RENOVATE GROUND FLOOR B210

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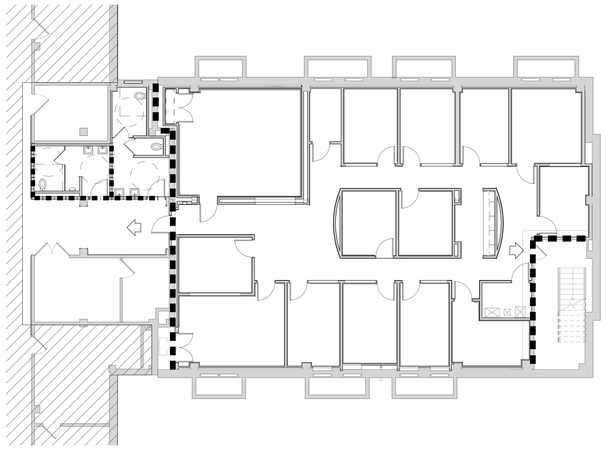
GENERAL CONSTRUCTION NOTES

1. SPRINKLER DESIGN BASED ON FIRE PROTECTION DRAWINGS AND SPECIFICATIONS AS SUBMITTED BY THE M.E.P. ENGINEERS WILL BE SUBJECT TO AN INDEPENDENT REVIEW BY A CERTIFIED REVIEWER. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR THIS INDEPENDENT REVIEW.
2. ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE OR, NATIONAL CODES,RULES, ORDINANCES AND REGULATIONS INCLUDING THE AMERICAN DISABILITIES ACT (ADA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) GUIDELINES.
3. IT IS INTENDED THAT THE DOCUMENTS INDICATE A NEW FINISH (I.E. PAINT, ACOUSTIC CEILING, FLOOR TILE, ETC.) ON ALL EXPOSED SURFACES OF THE BUILDING. WHERE A SPECIFIC FINISH IS NOT INDICATED AT ANY GIVEN LOCATION THE CONTRACTOR SHALL PROVIDE THE FINISH INDICATED FOR OTHER SIMILAR SURFACES.
4. THE PROJECT ENGINEER SHALL PROVIDE TEMPORARY SERVICES REQUIRED TO FACILITATE THE WORK INDICATED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: POWER, LIGHTING, HEAT, AND WATER.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE PROJECT ENGINEER 2 WEEKS IN ADVANCE OF ANY WORK WHICH MIGHT REQUIRE INTERRUPTION OF UTILITY SERVICES,CAUSE NOISE, OR CREATE VIBRATION. PRIOR TO THE COMMENCEMENT OF THIS WORK,THE CONTRACTOR'S WORK AND SCHEDULE SHALL BE APPROVED AND COORDINATED BEFORE HAND WITH THE PROJECT ENGINEER AND/OR ARCHITECT. SEE GENERAL CONDITIONS FOR FURTHER DETAIL.
6. THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE SPECIFICATIONS, INCLUDING ALL GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, AND MATERIAL AND CONSTRUCTION PROVISIONS, WHICH APPLY TO MATERIALS OR CONSTRUCTION METHODS REQUIRED BY THIS PROJECT.
7. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT SITE, EXAMINE, AND ACCEPT ALL EXISTING CONDITIONS. DATES FOR SITE VISITS WILL BE POSTED IN THE SPECIFICATIONS. UNSCHEDULED VISITS WILL NOT BE ALLOWED.
8. DO NOT PAINT ANY CAULKING OR SEALANTS WHICH ARE SUBJECT TO MOVEMENT - CONTROL JOINTS SHALL BE CAULKED AFTER PAINT AND SPECIAL COATING APPLICATIONS. PROVIDE CAULKING OR SEALANTS IN COLORS WHICH MATCH ADJACENT FINISHED SURFACE COLORS.
9. VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE FABRICATING ANY MATERIALS.
10. ALL EXISTING CONSTRUCTION TO REMAIN THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE PATCHED OR RESTORED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR TO PATCH AND REPAIR EXISTING CONSTRUCTION REMOVED OR DISTURBED BY WORK UNDER THEIR CONTRACT TO MATCH EXISTING ADJACENT UNLESS OTHERWISE NOTED.
11. IT IS THE INTENT OF THE DOCUMENTS TO INDICATE COMPLETE AND OPERATIONAL SYSTEMS (I.E. STRUCTURAL, HVAC, PLUMBING, ELECTRICAL AND ETC.) THE CONTRACTOR SHALL PROVIDE THE SYSTEMS AS OPERATIONAL SYSTEMS WHICH COMPLY WITH APPLICABLE CODES AND REGULATIONS. THIS NOTE SHALL BE LIMITED TO THE SYSTEMS AS INDICTED BY THE DOCUMENTS AND SHALL NOT INCLUDE CHANGES TO THE SYSTEMS WHICH ALTER INDICATED CAPACITIES, OPERATIONAL CHARACTERISTICS, ETC.
12. THE GENERAL CONTRACTOR SHALL PROVIDE FIRE-RETARDANT TREATED 2X BLOCKING IN THE STUD CAVITY AT ALL LOCATIONS REQUIRED TO PROVIDE SOLID ANCHORAGE OF WALL SUPPORTED ITEMS INDICATED BY THE DRAWINGS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, AND KITCHEN EQUIPMENT. CONTRACTOR'S OPTION TO PROVIDE GALV. 16 GA BY THE DEPTH OF THE WALL METAL STUDS AS BLOCKING UNLESS WOOD BLOCKING IS SPECIFICALLY CALLED FOR BY THE MANUFACTURER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A WORK AREA THAT IS UNDER NEGATIVE PRESSURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY AIR-MOVING UNIT (AHU) OR UNITS THAT SHALL BE OPERATIONAL CONTINUOUSLY DURING ALL PHASES OF CONSTRUCTION. CONSTRUCTION AREA SHALL HAVE A MINIMUM OF FOUR (4) AIR CHANGES PER HOUR OR AS MANDATED BY CODE, WHICHEVER IS MORE STRINGENT. THE CONTRACTOR SHALL BE RESPOSIBLE FOR PROVIDEING THE NUMBER OF AHU'S REQUIRED TO PROVIDE THE MANDATED NUMBER OF CHANGES PER HOUR, BASE ON HIS/HER ASHRE CALCULATIONS. A COPY OF THE CALCULATIONS SHALL BE PROVIDED TO THE COTR FOR REVIEW PRIOR TO BEGINNING WORK. THE AHU SHALL BE THE TYPE THAT EXHAUST AIR TO THE OUTSIDE VIA TEMPORARY DUCT SYSTEM AFTER PASSING THRU A HEPA FILTERING SYSTEM.
14. THE GENERAL CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER TO VERIFY THE SIZES OF ALL EQUIPMENT OR FIXTURES TO BE INSTALLED IN THE BUILDING, AND SHALL MAKE SPECIAL PROVISIONS FOR INSTALLATION OF ANY EQUIPMENT WHICH IS TOO LARGE TO FIT THROUGH A FINISHED OPENING.
15. THE CONTRACTOR IN CONJUNCTION WITH HIS WORK SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING SUBSTRATES AND FINISHES INCLUDING BUT NOT LIMITED TO EXISTING WALLS, FLOORS, BASES, WAINSCOTS, CEILINGS, WINDOWS, WINDOW TRIM, WOOD WORK, DOORS, FRAMES, ETC. (UNLESS INDICATED OTHERWISE) AND PREPARE AREAS AS REQUIRED FOR NEW CONSTRUCTION FINISHES. WHERE WORK IS PERFORMED AND NO FINISH IS SPECIFICALLY INDICATED THE CONTRACTOR IS RESPONSIBLE TO PATCH,REPAIR AND PAINT TO MATCH ALL EXISTING ADJACENT MATERIALS, FINISH AND PAINT ALL WORK TO PROVIDE A COMPLETE, FINISHED, WORKMANLIKE JOB, ALL SUBJECT TO THE APPROVAL OF THE ARCHITECT.
16. PATCH ALL EXISTING WALLS AND CEILINGS THAT ARE TO REMAIN (EXCEPT WHERE NOTED) AS REQUIRED TO PROVIDE A SOUND BASE FOR NEW FINISHES SUCH AS PAINT, ETC. ALL PATCHING TO MATCH EXISTING ADJACENT SURROUNDING AREAS AND SURFACES.
17. IN ADDITION TO SPECIFIC REQUIREMENTS, THE GENERAL INTENT OF PAINTING AND TRANSPARENT FINISHES IS AS FOLLOWS: WHERE SURFACES ARE INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED, ALL OPENINGS, NEW AND EXISTING,INCLUDING WINDOWS, DOORS, FRAMES, TRIM, BASE, ETC. SHALL BE FINISHED OR REFINISHED IN CONJUNCTION WITH SURROUNDING WORK. WHERE SURFACES ARE NOT INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED IN THIS CONTRACT, ITEMS OF NEW WORK OR REPAIR WORK ONLY SUCH AS WALLS, CEILING, DOORS, FLOORS, WINDOWS, ETC. SHALL BE FINISHED TO MATCH EXISTING ADJACENT FINISHES, EXISTING ADJACENT FINISH SHALL REMAIN. SEE ROOM FINISH SCHEDULE AND DOOR SCHEDULE FOR FINISHES. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL FINISHES WITH THE ARCHITECT PRIOR TO EXECUTION OF THE WORK.
18. ALL SUSPENDED ITEMS SUCH AS CEILINGS, DUCTS, PIPES, CONDUITS, ETC., SHALL BE SUSPENDED (ATTACHED) DIRECTLY TO STRUCTURE OR EXISTING PLASTER SUSPENSION SYSTEM, AND SHALL NOT BE ATTACHED OR ANCHORED TO EXISTING PLASTER, ACOUSTIC TILE, ETC.
19. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY IN THE FIELD. NEW PARTITIONS SHALL BE LOCATED AS INDICATED BY THE DIMENSIONS. WHERE NO DIMENSION IS INDICATED, PARTITIONS, ETC. SHALL BE LOCATED FROM EXISTING COLUMNS, WINDOWS, PARTITIONS, DOORS, ETC. AS INDICATED ON THE PLANS. ALL NEW PARTITIONS SHALL BE LOCATED IN THE FIELD AND APPROVED BY THE ARCHITECT OR PROJECT ENGINEER BEFORE ANY CONSTRUCTION IS STARTED.
20. ALL PENETRATIONS SUCH AS NEW OR EXISTING DUCTS, CONDUITS, PIPING, ELECTRICAL OUTLETS, LIGHT SWITCHES, RECESSED DEVICES OR ITEMS, HOLES, VOIDS, CRACKS, ETC. IN ALL EXISTING, MODIFIED AND NEW CORRIDOR WALLS, SMOKE PARTITIONS, AND FLOOR SLABS SHALL BE SEALED TO PREVENT PASSAGE OF ANY SMOKE, FLAME, GASES, ETC.. SEE PLUMBING HVAC, FIRE PROTECTION, ELECTRICAL, ETC. DRAWINGS AND SPECIFICATIONS.
21. WHERE NEW CONSTRUCTION REQUIRES CORE DRILLING THROUGH EXISTING STRUCTURAL CONCRETE FLOOR SLABS, THE CONTRACTOR SHALL COORDINATE HIS DRILLING WORK TO AVOID DRILLING INTO A STRUCTURAL ELEMENT, INCLUDING BEAMS, COLUMNS, ETC. ALSO SEE PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
22. WHERE NEW CONSTRUCTION (I.E. DOORS, FRAMES, CASEWORK, EQUIPMENT, ETC.) IS INDICATED TO BE INSTALLED IN EXISTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR PROPER FIT AND FOR ACCESS INTO THE BUILDING PRIOR TO SHOP DRAWING SUBMITTAL, ORDERING AND DELIVERING TO THE SITE.

CODE LEGEND

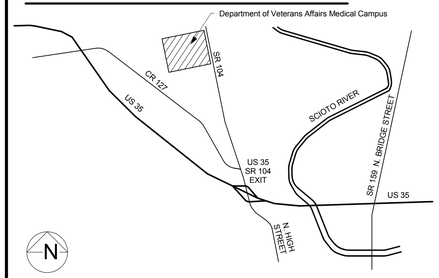
- 1-HR SMOKE PARTITION - OBC 710
- 1-HR FIRE BARRIER - OBC 706
- MEANS OF EGRESS
- NOT IN CONTRACT AREA



N LIFE SAFETY PLAN
Scale: 3/32" = 1'-0"

FOR CONSTRUCTION

VICINITY MAP



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RENOVATE GROUND FLOOR B210
FOR:
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
17273 STATE ROUTE 104
CHILLICOTHE, OHIO 45601

PRINTING
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- 06/15/2012 - 95% Submittal
- 06/29/2012 - Bid Documents

REVISIONS

GRAPHIC SYMBOLS

	ELEVATION		CEILING HEIGHT/ FINISH DESIGNATION
	SECTION/DETAIL NUMBER DRAWING NUMBER		COLUMN GRID
	NOTE		ROOM NUMBER
	BEARING		WINDOW OPENING
	REVISION		DOOR OPENING

STATE OF OHIO JOHN A. POE 6549 REGISTERED ARCHITECT

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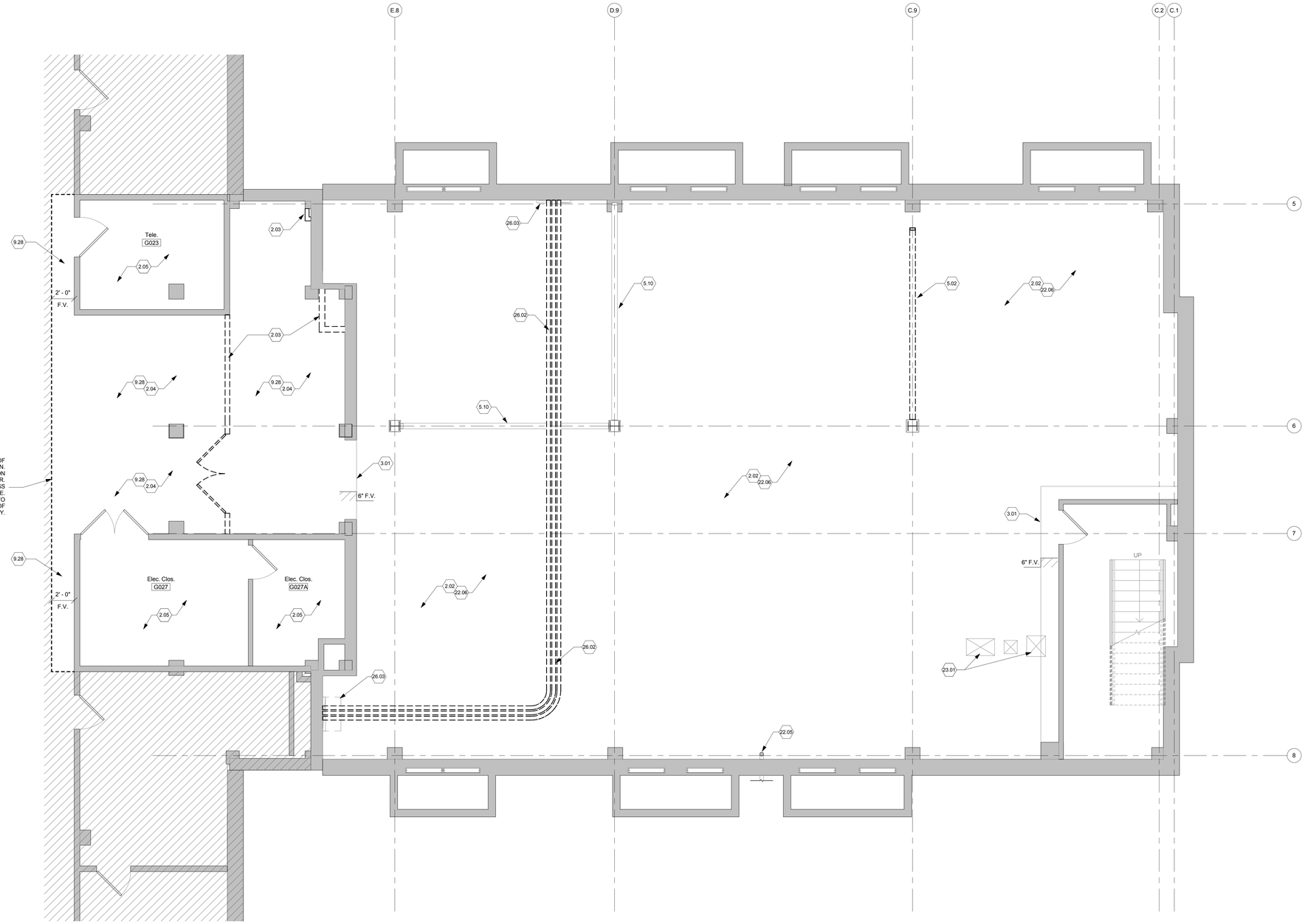
SET NO.

VA PROJECT NO. 538-13-104
JPA PROJECT NO. 12001.00

DATE 06/29/2012

A101



DEMOLITION PLAN

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

GENERAL NOTES

A. Remove all existing partitions shown with dashed line. Repair wall and floor finishes to match adjacent surfaces at areas of removal or scheduled new surfaces as required.

B. Remove all existing doors where indicated with dashed line. Unused hardware shall be turned over to the COTR. Only remove door frames if associated wall and door are demolished. Box hardware before giving to the COTR.

C. Remove all wall-hung accessories and equipment unless noted otherwise and turn over to COTR. Repair wall and floor finishes to match adjacent existing or scheduled new surfaces as required.

D. See Plumbing, HVAC and Electrical Drawings for removal work associated with those trades.

E. Computer and communication cables and/or other wiring, piping, tubing, etc. serving other areas and functions located above ceiling or in walls of area to be remodeled shall be maintained during demolition/construction process. Coordinate any required changes to these systems with the COTR.

G. Remove all existing corner guards in area to be remodeled.

H. Unless noted otherwise walls that are to be removed are metal stud and drywall construction. Walls of masonry construction are identified as such. This information is intended as a guideline only and the contractor shall be responsible for verifying conditions in the field.

J. Existing floor surface shall be made level throughout the entire area of demolition and construction by pouring partial high strength cementitious fill. Patch and repair existing slab as required to fill voids in existing floor slab at abandoned mechanical chases, new electrical conduit and all MEP floor penetrations. Feather all edges to match adjacent floor elevations and correct low areas to remain exposed with a approved repair topping.

K. Building 210 is believed to be fully abated of asbestos. However if asbestos is suspected or encountered during construction see Note M on Sheet A302.

L. Protect all existing windows and frames that are to remain during demolition.

M. Protect existing structure during demolition.

N. All items returned to the COTR will be delivered to the Engineering Area, to be designated in the vicinity of Building 21. Confirm location with the COTR prior to beginning construction.

P. Protect all existing doors that are to remain. Refinish to like new any existing doors damaged during construction.

Q. Within the building, provide sticky mats at all exits from the construction area during the entire length of the construction project.

R. Sprinklers and water supply to be maintained throughout as required. See MEP Drawings.

S. Existing power must be maintained throughout as required. Coordinate power turnover with requirements as dictated by the COTR. See Electrical Drawings.

T. Demolish all floor finishes and wall base throughout unless otherwise noted.

U. Remove any existing convector pipe chases located on, inside or adjacent to any scheduled new wall construction, U.N.O.

○ DEMOLITION NOTES

2.02 Existing clean gravel floor. Average elevation 6" below top of existing concrete slab. Provide additional clean gravel fill as required to pour new floor slab. See Structural Drawings.

2.03 Remove existing masonry walls.

2.04 Remove existing ceiling tile and grid.

2.05 Existing floor finish to remain. Protect in place.

3.01 Edge of existing concrete slab. Verify elevation in the field. See Structural Drawings.

5.02 Existing cross bracing. Re-locate as required. Provide shoring during demolition and construction. See Structural Drawings.

5.10 Existing cross bracing. Protect in place. See Structural Drawings.

9.28 Remove existing floor covering as required down to top of existing slab. Remove tile distance shown out to the next full row. Verify distance in the field. Prepare slab to receive new floor finish as specified.

22.05 Existing sanitary drain. Relocate as required. See Plumbing Drawings.

22.06 Relocate existing domestic water piping as required. See Plumbing Drawings.

23.01 Existing blank-off connection points overhead for suite HVAC system. See Mechanical Drawings.

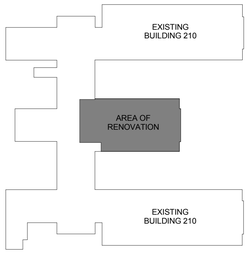
26.02 Location of overhead electrical conduit to be relocated. See Electrical Drawings.

26.03 Existing electrical gear and conduit boxes. See Electrical Drawings.

DEMOLITION LEGEND

EXISTING WALLS/ MATERIALS/EQUIPMENT TO BE REMOVED

EXISTING WALLS/ MATERIALS/EQUIPMENT TO REMAIN



AREA PLAN - BLDG. 210

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: DEMOLITION & PHASING PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: NS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: A301

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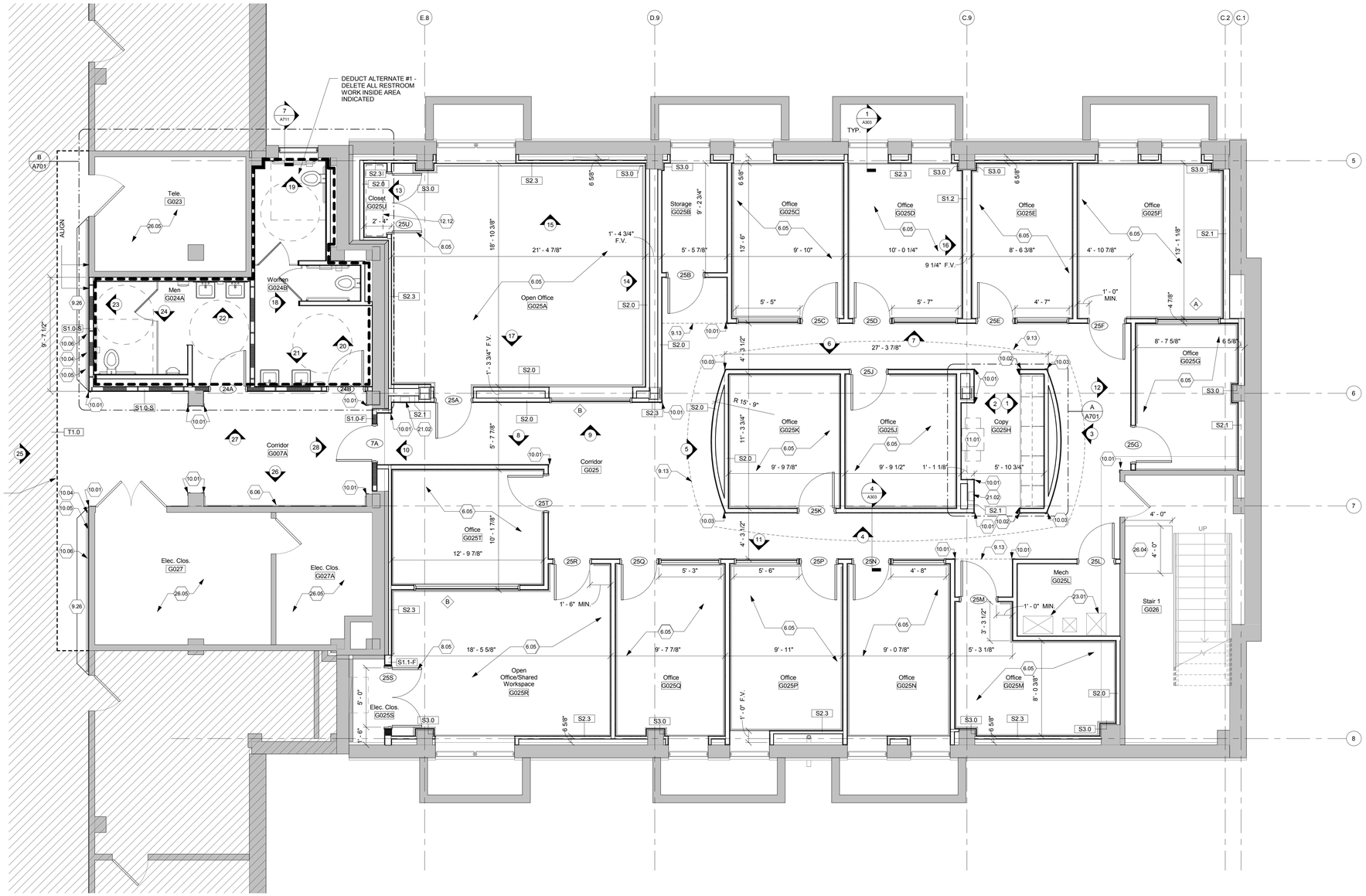
Office of Construction and Facilities Management

Department of Veterans Affairs



NEW WORK PLAN

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

GENERAL NOTES

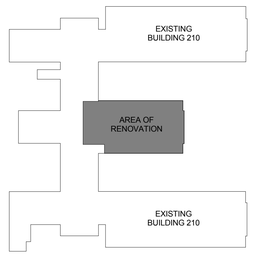
A. All dimensions are taken to face of gypsum wallboard or unit masonry.
B. Edge of all jambs at hinge side not otherwise indicated are to be 6" from face of intersecting walls.
C. Work area will be returned to a clean and organized condition at the end of each workday. Coordinate all work with the COTR.
D. Install fire retardant treated wood blocking at all wall mounted equipment, accessories, casework, rails and wall-mounted door stops.
E. All partition types to be S1.0 unless noted otherwise. See Sheet A601 for wall type information.
F. Verify all conditions in the field prior to fabrication, erection and construction.
G. All gypsum boad to be cement board behind all sinks and in all restrooms and janitors closets.
H. Coordinate location of job dumpster with COTR so as to not disrupt daily operations.
J. Coordinate access to all phases of construction, deliveries, and debris removal with the Project Engineer. See General Requirements.
K. Provide and maintain negative air pressure at all construction within the existing building. Coordinate with HVAC contractor. See HVAC plans for temporary venting requirements and duct locations.
L. Confirm all dimensions for Owner-supplied equipment with COTR prior to beginning construction.
M. Building 210 is believed to be fully abated for asbestos, Any asbestos containing material (ACM) encountered must be abated per the direction of the COTR and local state and federal regulations. Abatement if required is to be scheduled in appropriate sequence with demolition, new construction and project phasing.
N. Patch and repair all damage on existing walls to remain that are to receive new finishes.
O. All equipment or furniture shown dashed will be supplied by the Owner.

NEW WORK NOTES

6.05	All walls in will receive wood chair rail.
6.06	Wood chair rail.
8.05	Intent is to install door opening in wall so that each leaf can open a minimum of 90°.
9.13	Line of ceiling alcove & soffits above. See Reflected Ceiling Plan.
9.26	Replace full length of matching resilient base past term of work.
10.01	Resilient corner guard 7'-0"H.
10.02	Resilient end wall corner guard 7'-0"H.
10.03	Resilient obscure angled wall corner guard 7'-0"H.
10.04	Handrail.
10.05	Crash Rail.
10.06	Rigid Sheet Wall Protection.
11.01	Copier. Owner provided and installed. See Electrical Drawings.
12.12	Plastic laminate shelving, brackets & standards. Contractor provided, contractor installed. See Sheet A711 for details.
21.02	Recessed fire extinguisher cabinet with full vision panel.
23.01	Existing blank-off connection points overhead for suite HVAC system. See Mechanical Drawings.
26.04	Area of rescue assistance. See Electrical Drawings.
26.05	See Electrical Drawings for work in this area.

NEW WORK LEGEND

- NOT IN CONTRACT
- NEW WALLS / MATERIALS / EQUIPMENT
- EXISTING WALLS / MATERIALS / EQUIPMENT TO REMAIN
- ADA TURN RADIUS
- DASHED LINES (THIS SHEET ONLY) INDICATE FURNISHINGS / EQUIPMENT BY OWNER, UNLESS OTHERWISE NOTED



AREA PLAN - BLDG. 210

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: NEW WORK PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: NS

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

Building Number: 210

Drawing Number: A302

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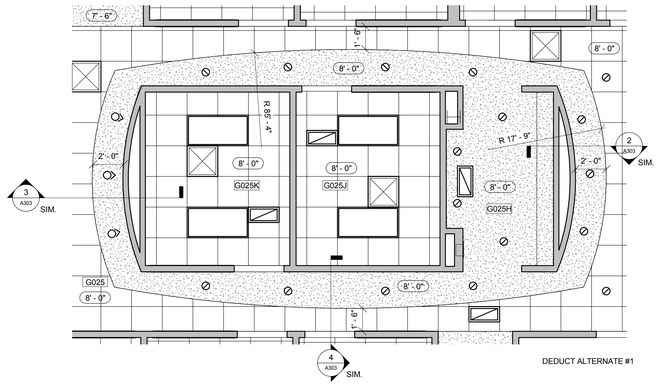
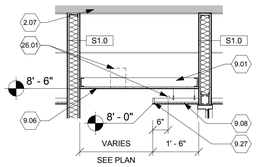
Office of Construction and Facilities Management

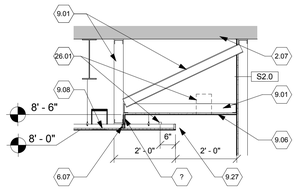
Department of Veterans Affairs



5 PARTIAL REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"



4 CEILING DETAIL
Scale: 1/2" = 1'-0"



3 CEILING DETAIL
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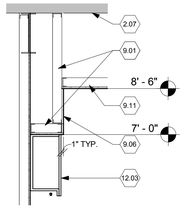
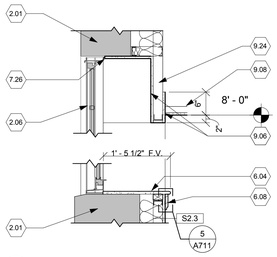


2 SOFFIT DETAIL
Scale: 1/2" = 1'-0"



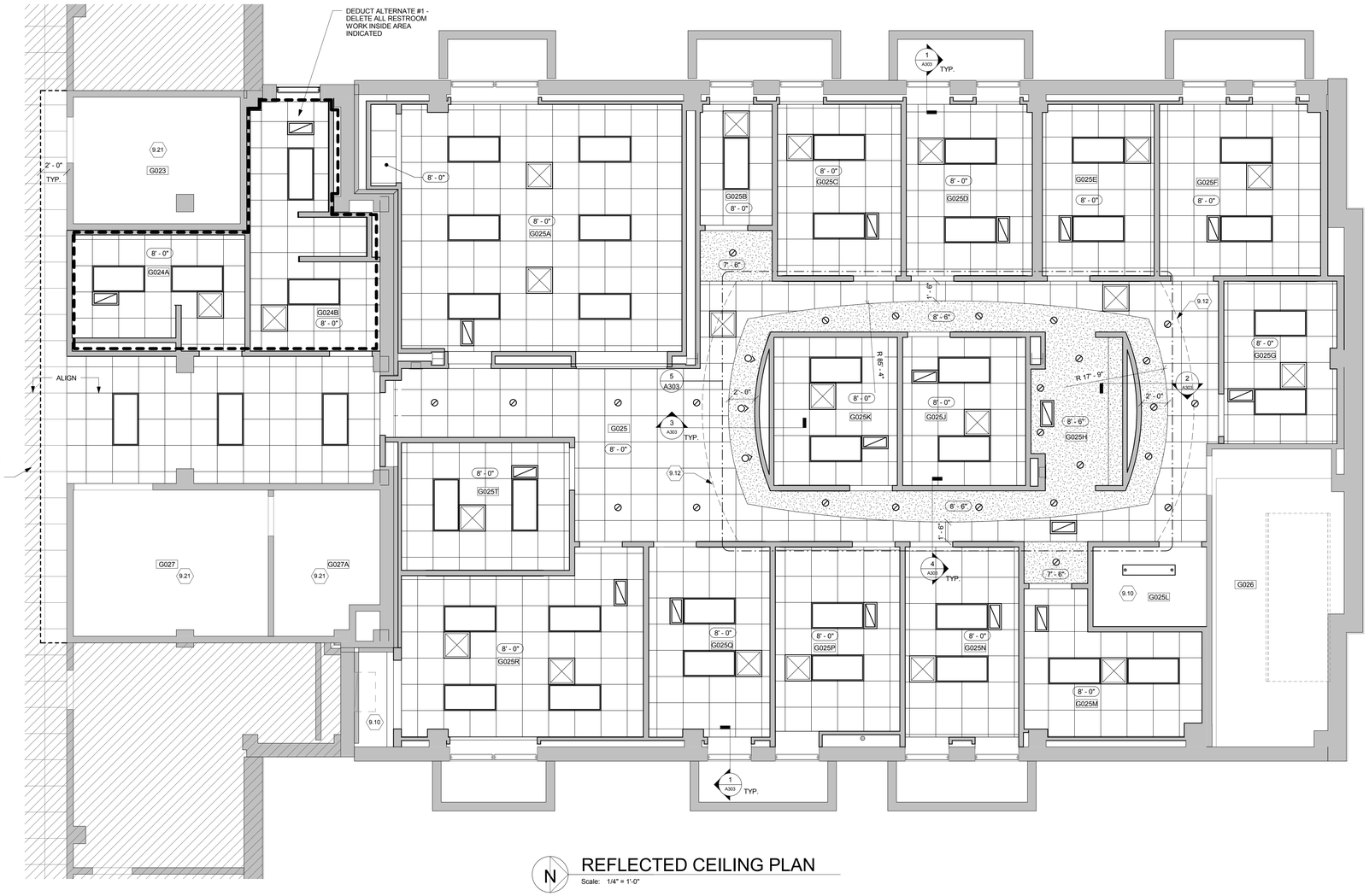
1 WINDOW DETAILS
Scale: 3/4" = 1'-0"

GENERAL NOTES

A. All wood blocking shall be fire retardant.
B. All gypsum board ceilings to be painted P-5 unless noted otherwise.
C. Light fixtures, sprinkler heads, speakers, and HVAC devices shall be located as close as possible to the center of acoustical ceiling panels. Confirm any deviation from this with the COTR.
D. Coordinate ceiling grid and tile removal and installation of new ceiling grid and tile with mechanical, electrical, plumbing and fire protection contractor's and owner's forces installing other work.
E. See P, M, E and FP drawings for additional information regarding final information and quantites of fixtures/devices to be installed in ceiling.
F. Notify COTR of any active plumbing leaks or roof leaks in existing construction for repair by owner prior to installation of new ceiling finishes.
G. Existing exterior aluminum windows are fully installed in place. Rough wood blocking, jamb, head, and flashing are in place. However, interior trim has not been installed. It is the intent of the construction documents that all existing windows will be finished on the interior with new wood casing, trim, solid surface window stools, and gypsum board as shown on the drawings.

CEILING NOTES

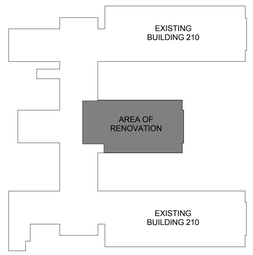
2.01	Existing construction.
2.06	Existing window.
2.07	Existing structural floor deck.
6.04	Solid surface window stools are to be SS-2. See Sheet A801 for details.
6.07	Continuous neoprene gasket.
6.08	Wood casing - AW1 CAS-2078.
7.26	Continuous sealant. Provide backer rod at all exterior locations.
9.01	3 5/8" metal studs @ 16" o.c.
9.06	5/8" type "x" gypsum board
9.08	Suspended acoustic ceiling tile/grid.
9.10	No ceiling this area.
9.11	Gypsum board ceiling on 3 5/8" metal studs @ 16" o.c.
9.12	Line of bulkhead above ceiling.
9.21	Existing ceiling finishes this area. See Electrical Drawings for any lighting requirements.
9.24	2 1/2" metal studs @ 16" o.c.
9.27	2" metal ceiling edge trim.
12.03	Plastic laminate wall cabinet.
26.01	Light fixture. See Electrical Drawings.



N REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- Recessed downlight fixture
- 2' x 4' fluorescent fixture
- 2' x 2' acoustical tile ceiling,
- Gypsum board / portland cement plaster ceiling / soffit - painted
- 1' x 4' fluorescent fixture
- Supply Air Diffuser
- Return Air Grille
- Access panel
- Recessed wall-wash fixture



N AREA PLAN - BLDG. 210
Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: REFLECTED CEILING PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: NS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A303

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A. All wood blocking shall be fire retardant.
B. See A801 for typical sill conditions at unlike floor finishes.
C. Seal joints between finish material and bottom of door frames.
D. Paint window frames at door windows to match door frame.
E. Modify all existing doors to remain as required to conform with specifications for new door clearances above new finish floor.
F. Color selection for aluminum storefront per Resident Interior Designer.
G. New hardware sets to match existing door hardware U.N.O. General Contractor to verify prior to fabrication.
H. Prep, prime and paint all existing door frames. See Finish Schedule.

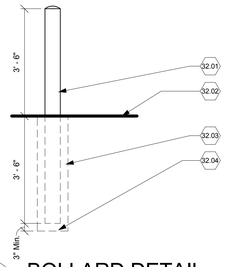
⬡ DETAIL NOTES

2.08	Line of existing foundation wall.
6.06	Wood chair rail.
7.06	Batt insulation (min. R-19)
7.08	Vapor barrier
7.24	Cont. sealant @ each side.
7.25	Continuous acoustic sealant @ non-rated walls / fire-rated sealant @ rated walls each side.
8.02	Hollow metal frame.
8.03	Hospital stops @ all interior door frames.
8.10	1/4" tempered frosted glass, acid etched.
8.11	1/4" heat strengthened frosted glass, acid etched.
8.13	1/4" tempered wire glass, 45°.
9.01	3 5/8" metal studs @ 16" o.c.
9.02	6" metal studs @ 16" o.c."
9.03	7/8" furring channel @ 16" o.c. horz."
9.04	Metal stud framing.
9.05	Double studs at jamb, typ.
9.06	5/8" type "x" gypsum board
9.16	Flame-retardant plastic sheeting sealed to create negative air pressure inside work zone
9.24	2 1/2" metal studs @ 16" o.c.
9.25	8" metal studs @ 16" o.c.
32.01	4" dia. steel pipe bollard. Concrete fill solid w/ rounded top. Painted finish, C.O.T.R. to select color.
32.02	Concrete transformer pad.
32.03	12" dia. concrete footing.
32.04	Compacted subgrade.

DOOR SCHEDULE

DOOR#	BETWEEN RM	BETWEEN RM	DOOR DESCRIPTION TYPE	DOOR DESCRIPTION MAT'L	SIZE #	SIZE W	SIZE H	SIZE T	FRAME DESCRIPTION TYPE	FRAME DESCRIPTION MAT'L	HEAD	JAMB	SILL	FIRE RATING	HDWE SET	REMARKS
7A	G025	G007A	G	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	1 HOUR	1	BASE BID & DEDUCT ALT. #2
24A	G007A	G024A	F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	1 HOUR	8	BASE BID & DEDUCT ALT. #2
24B	G007A	G024B	F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	1 HOUR	8	BASE BID & DEDUCT ALT. #2
25A	G025A	G025	G	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	4	
25B	G025B	G025	F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	6	
25C	G025C	G025	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25D	G025	G025D	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25E	G025E	G025	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25F	G025	G025F	N	WD	1	3' - 0"	7' - 0"	1 3/4"	2	HM	H1	J1	S1	--	3	
25G	G025	G025G	N	WD	1	3' - 0"	7' - 0"	1 3/4"	2	HM	H1	J1	S1	--	2	
25J	G025	G025J	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25K	G025	G025K	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25L	G025	G025L	F	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	7	
25M	G025	G025M	N	WD	1	3' - 0"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	3	
25N	G025	G025N	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25P	G025P	G025	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25Q	G025Q	G025	N	WD	1	3' - 0"	7' - 0"	1 3/4"	3	HM	H1	J1	S1	--	2	
25R	G025	G025R	N	WD	1	3' - 0"	7' - 0"	1 3/4"	2	HM	H1	J1	S1	--	2	
25S	G025S	G025R	F	WD	2	2' - 6"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	5	
25T	G025	G025T	N	WD	1	3' - 0"	7' - 0"	1 3/4"	2	HM	H1	J1	S1	--	2	
25U	G025U	G025A	F	WD	2	2' - 6"	7' - 0"	1 3/4"	1	HM	H1	J1	S1	--	9	

NOTE: ALL DOORS AND HARDWARE ARE INCLUDED IN DEDUCT ALTERNATE #2, U.N.O.



1 BOLLARD DETAIL
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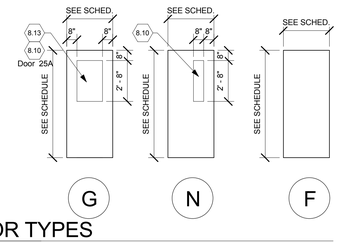

DOOR TYPES
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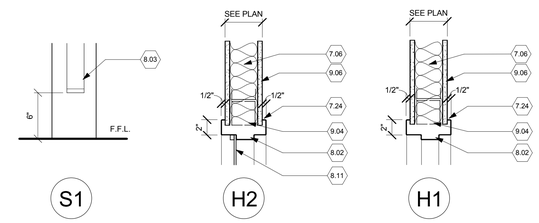

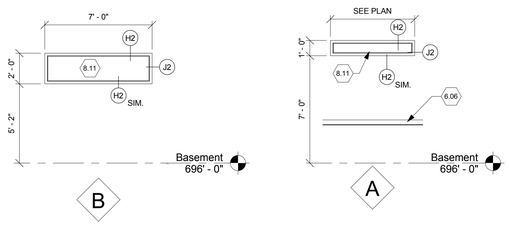

WINDOW FRAME TYPES
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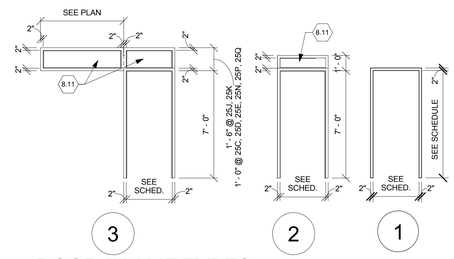

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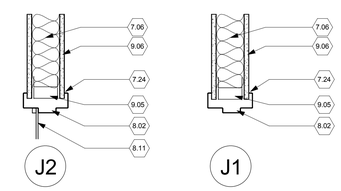
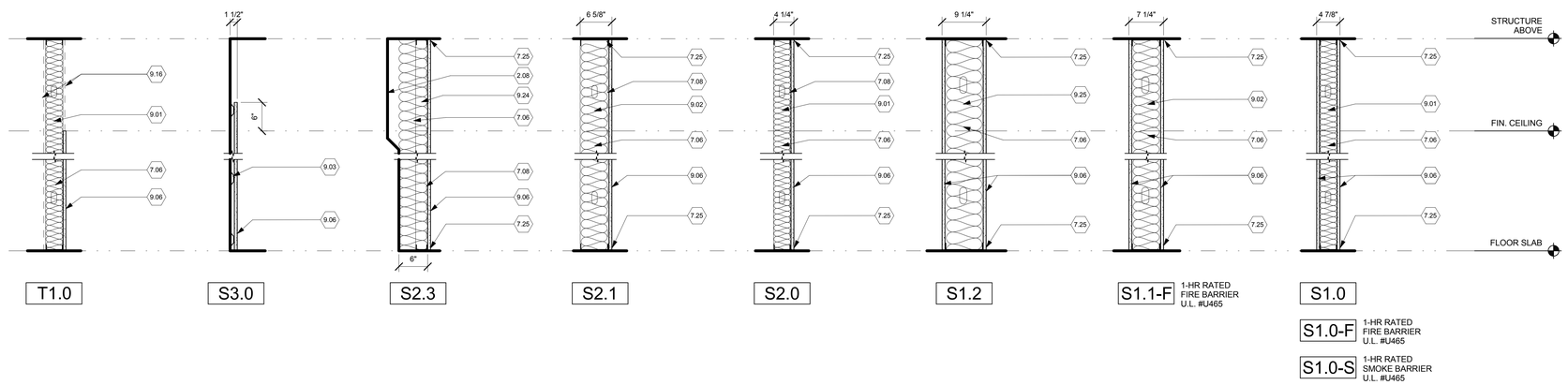


H.M. FRAME DETAILS
Scale: 1 1/2" = 1'-0"



WALL TYPES
Scale: 1" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

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Drawing Title: DOOR SCHEDULE AND DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: NS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A601

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Office of Construction and Facilities Management

Department of Veterans Affairs

ACCESSORIES SCHEDULE

MARK	ITEM	MOUNTING HEIGHT	COMMENTS
A	GRAB BAR 36" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED AND INSTALLED BY CONTRACTOR.
B	GRAB BAR 42" LENGTH	33" A.F.F. TO CENTER LINE	FURNISHED AND INSTALLED BY CONTRACTOR.
C	TOILET PAPER DISPENSER	19" A.F.F. TO CENTER LINE	FURNISHED BY OWNER INSTALLED BY CONTRACTOR.
D	PAPER TOWEL DISPENSER	48" A.F.F. TO CENTER LINE	FURNISHED BY OWNER INSTALLED BY CONTRACTOR.
E	MIRROR	40" A.F.F. TO BOTTOM OF MIRROR	FURNISHED AND INSTALLED BY CONTRACTOR.
F	SOAP DISPENSER	BY OWNER	FURNISHED BY OWNER INSTALLED BY CONTRACTOR.
G	SAN. NAP. DISPOSAL	31" A.F.F. TO TOP	FURNISHED BY OWNER INSTALLED BY CONTRACTOR.

NEW WORK LEGEND

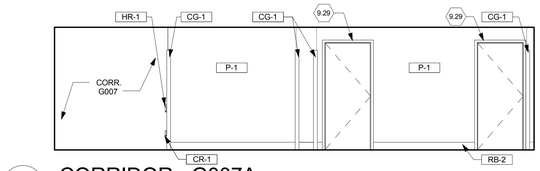
- NOT IN CONTRACT
- NEW WALLS / MATERIALS / EQUIPMENT
- EXISTING WALLS / MATERIALS / EQUIPMENT TO REMAIN
- ADA TURN RADIUS
- DASHED LINES (THIS SHEET ONLY) INDICATE FURNISHINGS / EQUIPMENT BY OWNER, UNLESS OTHERWISE NOTED

GENERAL INT. ELEVATION NOTES

A. See Sheet A801 for Finish Schedule and Material Legend.
B. See Finish Materials Legend for detailed finish information.
C. See Sheet A711 for Casework Sections.
D. All wood blocking shall be fire retardant, U.N.O.
E. Provide ADA drain covers at all lavatories.
F. Gypsum board installed at lavatories, water closet, urnials and sinks to be moisture resistant gypsum board.
G. See Sheet A803 for typical Wall Tile Pattern.
H. Verify all conditions and dimensions prior to fabrication and installation.
J. Sheet Wall Protection is 2'-10" A.F.F.
K. All door frames and window frames inside the suite are to be painted P-6, unless noted otherwise.
L. Provide ADA Pipe Covers at all lavatories.
M. Coordinate mounting height of all toilet accessories with the mounting requirements of all plumbing fixtures.

INTERIOR ELEVATION NOTES

6.04 Solid surface window stools are to be SS-2. See Sheet A801 for details.
8.12 Existing window protect in place.
9.29 Door Frames are to be painted P-2.
9.30 Window Frames are to be painted P-2.
9.31 Porcelain tile bullnose trim piece. See Sheet A801.
9.32 Clean, prep and paint, concrete not receiving tile to match color selected for window frames.
11.01 Copier. Owner provided and installed. See Electrical Drawings.
12.01 Plastic laminate casework filler.
12.12 Plastic laminate shelving, brackets & standards. Contractor provided, contractor installed. See Sheet A711 for details.
21.02 Recessed fire extinguisher cabinet with full vision panel.
22.01 Plumbing fixture. See Plumbing Drawings.



27 CORRIDOR - G007A
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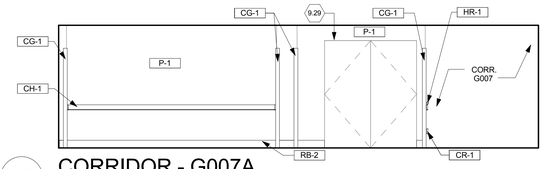

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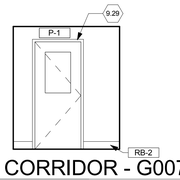

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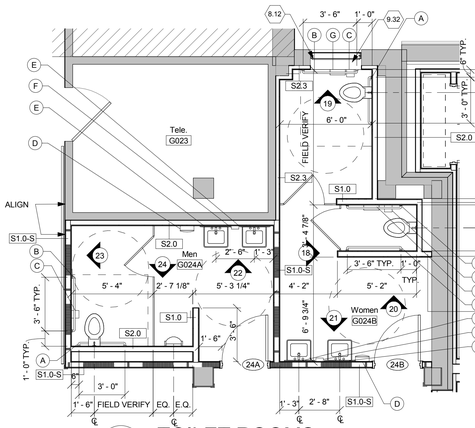

B TOILET ROOMS
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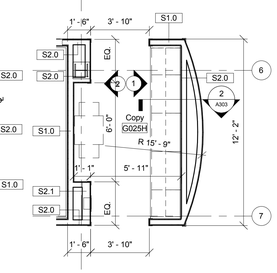
DEDUCT ALTERNATE #1



A COPY ROOM
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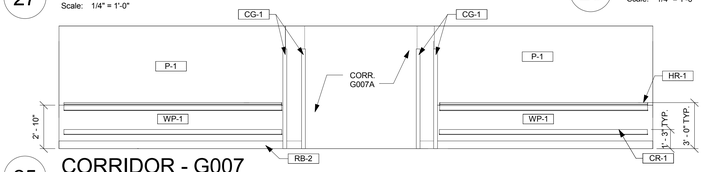

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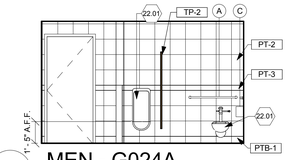

24 MEN - G024A
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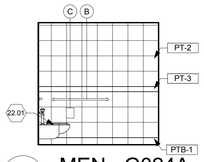

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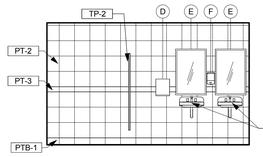

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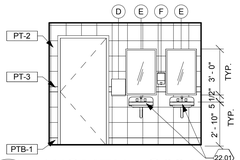

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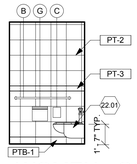

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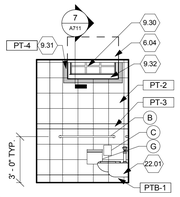

19 WOMEN - G024B
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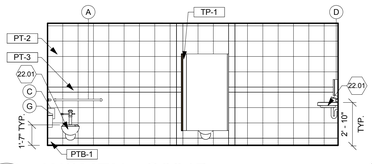

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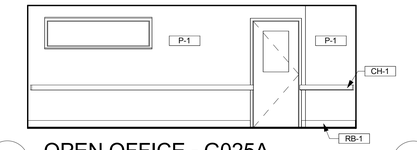
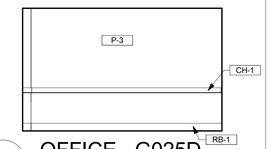


17 OPEN OFFICE - G025A
Scale: 1/4" = 1'-0"



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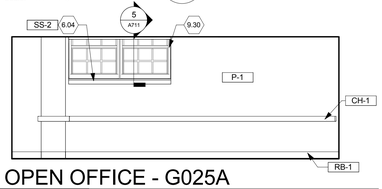

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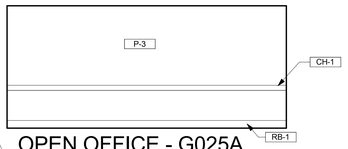

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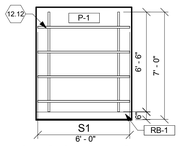

13 CLOSET - G025U
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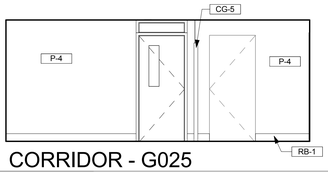

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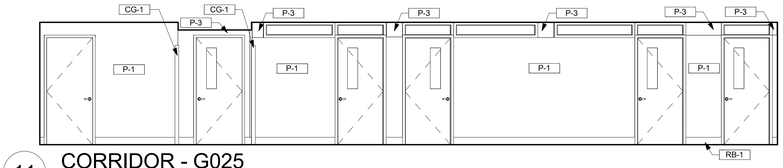

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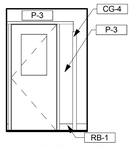

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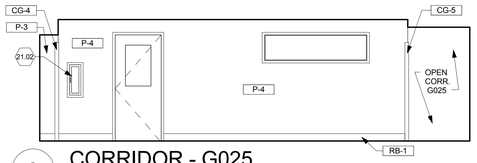
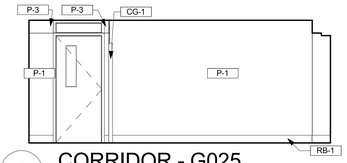


9 CORRIDOR - G025
Scale: 1/4" = 1'-0"



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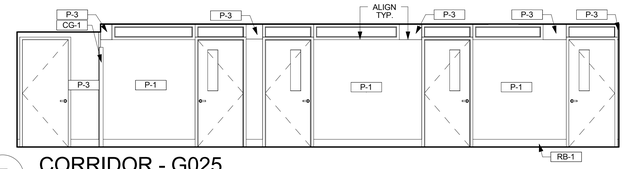

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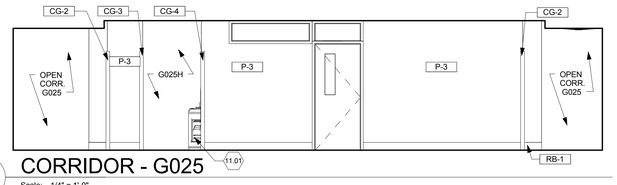

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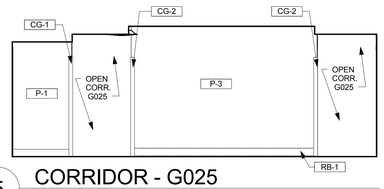

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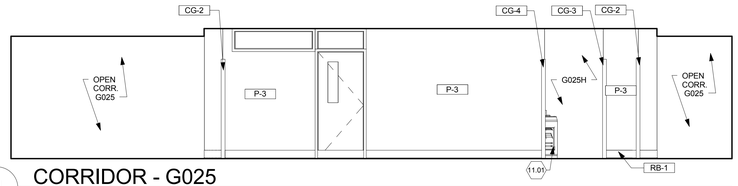

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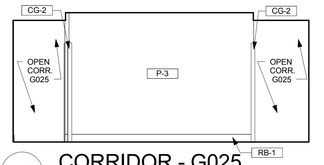

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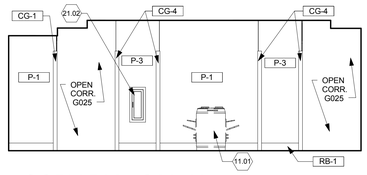

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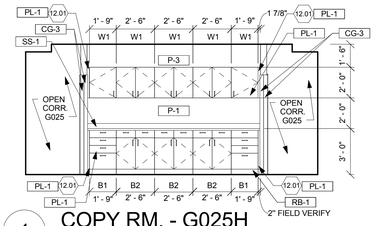
Scale: 1/4" = 1'-0"



1 COPY RM. - G025H
Scale: 1/4" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A. POE 6549 — REGISTERED ARCHITECT

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Drawing Title: INTERIOR ELEVATIONS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A701
Dwg. of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

A. See Sheet A801 for Room Finish Schedule.
B. See Sheet A801 for Finish Materials Legend.
C. See Interior Elevations on Sheet A701 for further information.
D. See Sheet A802 for Floor Transition Details.
E. All wall base is to be RB-1, unless noted otherwise.
F. All door frames and window frames inside the suite are to be painted P-6, unless noted otherwise.
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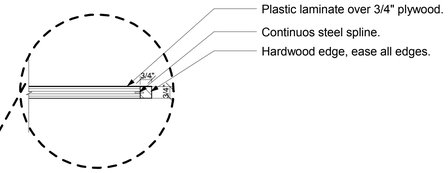
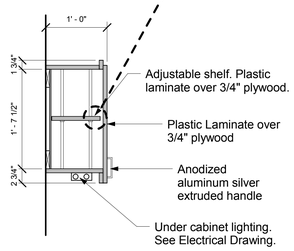
H. See Sheet A803 for typical Wall Tile Pattern.
J. All floor finishes are included in Deduct Alternate #2, U.N.O.



TYPICAL SHELF EDGE AT ALL EDGES U.N.O.
Scale: 3" = 1'-0"



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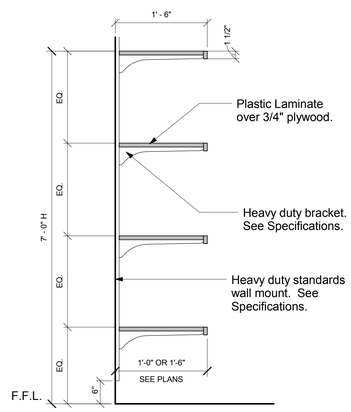
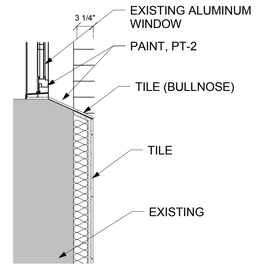
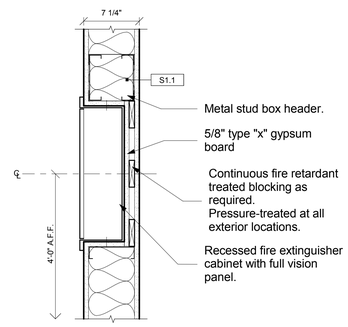


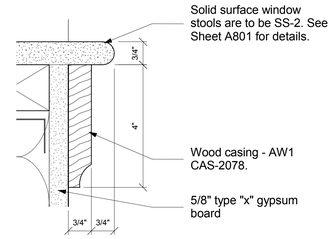
S1 **NOTE : S1, IS CONTRACTOR INSTALLED AND PROVIDED.**



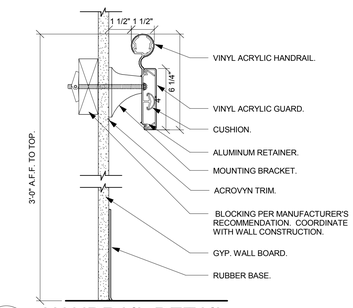
7 TILE DETAIL @ WINDOW
Scale: 1" = 1'-0"



6 FIRE EXTINGUISHER DETAIL
Scale: 1 1/2" = 1'-0"



5 TYPICAL WINDOW SILL DETAIL
Scale: 6" = 1'-0"



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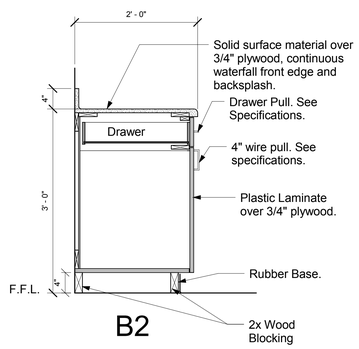
Scale: 3" = 1'-0"



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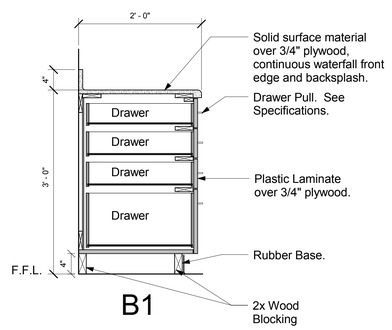

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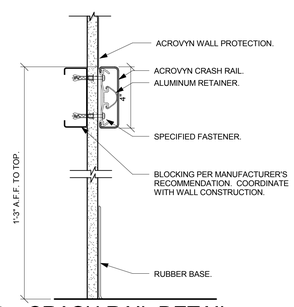
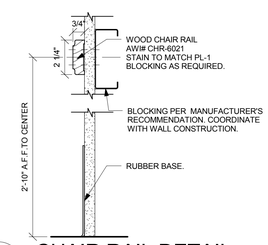
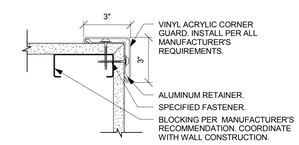
8 CASEWORK
Scale: 1" = 1'-0"



3 CRASH RAIL DETAIL
Scale: 3" = 1'-0"



2 CHAIR RAIL DETAIL
Scale: 3" = 1'-0"



1 CORNER GUARD DETAIL
Scale: 3" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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ARCHITECT/ENGINEERS:

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Drawing Title: CASEWORK SECTIONS & DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A711

Dwg. 7 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

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D. See Sheet A802 for Floor Transition Details.
E. All wall base is to be RB-1, unless noted otherwise.
F. All door frames and window frames inside the suite are to be painted P-6, unless noted otherwise.
G. Verify all conditions prior to fabrication, erection and installation.
H. See Sheet A803 for typical Wall Tile Pattern.
J. All floor finishes are included in Deduct Alternate #2, U.N.O.

ROOM FINISH SCHEDULE

Number	Room Name	Base Finish	Floor Finish	North Wall	South Wall	West Wall	East Wall	Ceiling Finish	Signage	Comments
G007	Corridor	RB-2	VCT-1/VCT-2	P-1	-	-	-	-	H	
G007A	Corridor	RB-2	VCT-1/VCT-2/VCT-3/VCT-4/ VCT-5/VCT-6	P-1	P-1	P-1	P-1	-	D, J	See Sheet A803 for finish clarification.
G024A	Men	PTB-1	PT-1	PT-2/PT-3	PT-2/PT-3	PT-2/PT-3	PT-2/PT-3	ACT-2	B, C	
G024B	Women	PTB-1	PT-1	PT-2/PT-3	PT-2/PT-3	PT-2/PT-3/PT-4/P-1	PT-2/PT-3	ACT-2	B, C	See Sheet A802 for finish clarification.
G025	Corridor	RB-1	VPF-1/VPF-2	P-1/P-3/P-4	P-1/P-3/P-4	P-1/P-3/P-4	P-1/P-3/P-4	ACT-1/GYP.	E, F, L	See Sheet A802 & A803 for finish clarification.
G025A	Open Office	RB-1	CPT-1	P-1	P-1	P-3	P-1	ACT-1	A	
G025B	Storage	RB-1	VCT-1	P-1	P-1	P-1	P-1	ACT-1	B	
G025C	Office	RB-1	CPT-2	P-1	P-3	P-1	P-1	ACT-1	A	
G025D	Office	RB-1	CPT-1	P-4	P-1	P-1	P-1	ACT-1	A	
G025E	Office	RB-1	CPT-2	P-3	P-1	P-1	P-1	ACT-1	A	
G025F	Office	RB-1	CPT-1	P-4	P-1	P-1	P-1	ACT-1	A	
G025G	Office	RB-1	CPT-2	P-3	P-1	P-1	P-1	ACT-1	A	
G025H	Copy	RB-1	VPF-1	P-1/P-3	P-1/P-3	P-3	P-3	GYP.	-	
G025J	Office	RB-1	CPT-1	P-3	P-1	P-1	P-1	ACT-1	A	
G025K	Office	RB-1	CPT-2	P-1	P-4	P-1	P-1	ACT-1	A	
G025L	Mech	RB-1	VCT-1	P-1	P-1	P-1	P-1	-	B	
G025M	Office	RB-1	CPT-1	P-1	P-1	P-1	P-4	ACT-1	A	
G025N	Office	RB-1	CPT-2	P-3	P-1	P-1	P-1	ACT-1	A	
G025P	Office	RB-1	CPT-1	P-1	P-4	P-1	P-1	ACT-1	A	
G025Q	Office	RB-1	CPT-2	P-1	P-3	P-1	P-1	ACT-1	A	
G025R	Open Office/Shared Workspace	RB-1	CPT-1	P-1	P-1	P-1	P-4	ACT-1	A	
G025S	Elec. Clos.	RB-1	VCT-1	P-1	P-1	P-1	P-1	-	B	
G025T	Office	RB-1	CPT-2	P-1	P-1	P-1	P-3	ACT-1	A	
G025U	Closet	RB-1	VCT-1	P-I	P-1	P-1	P-1	GYP.	-	
G026	Stair 1	-	-	-	MATCH EXISTING	-	-	-	C, F	

FINISH LEGEND

MARK	FINISH TYPE	MANUFACTURER	PRODUCT / COLOR	COMMENTS
CEILING FINISHES				
ACT-1	ACOUSTICAL TILE	ARMSTRONG	ACOUSTICAL CEILING TILE	
ACT-2	ACOUSTICAL TILE	ARMSTRONG	ACOUSTICAL CEILING TILE	
FLOOR FINISHES				
CPT-1	CARPET TILE	BENTLEY PRINCE STREET	STRUCTURAL OBSESSION LOOP 8LS240220T, RENDERING 880229, 24" x 24"	QUARTER TURN
CPT-2	CARPET TILE	BENTLEY PRINCE STREET	AVANT GARDIA LOOP 8LV240220T, RENDERING 880229, 24" x 24"	QUARTER TURN
PT-1	PORCELAIN TILE	DAL-TILE	CONTINENTAL SLATE, CS50 EGYPTIAN BEIGE, 6" x 6"	
PTB-1	PORCELAIN TILE COVE BASE	DAL-TILE	CONTINENTAL SLATE, CS50 EGYPTIAN BEIGE, 6" x 12"	
RB-1	RUBBER BASE	ARMSTRONG	16 SAND, 6"	4" BASE UNDERNEATH ALL CASEWORK
RB-2	RUBBER BASE	JOHNSONITE	09 CLAY, 6"	4" BASE UNDERNEATH ALL CASEWORK
T1	TRANSITION FLOOR ACCESSORIE	JOHNSONITE	SUBFLOOR LEVELER SYSTEM, LS-40-F	
T2	TRANSITION FLOOR ACCESSORIE	JOHNSONITE	SUBFLOOR LEVELER SYSTEM, LS-40-D	
T3	TRANSITION FLOOR ACCESSORIE	JOHNSONITE	SUBFLOOR LEVELER SYSTEM, LS-40-D	
T4	TRANSITION FLOOR ACCESSORIE	JOHNSONITE	REDUCER, SSR-45-B	
VCT-1	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS, 133 ALMONDINE, 12" x 12"	
VCT-2	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS, 173 OTTER BROWN, 12" x 12"	
VCT-3	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS, 178 PECAN, 12" x 12"	
VCT-4	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS, 183 PRAIRIE SAND, 12" x 12"	
VCT-5	VINYL COMPOSITION TILE	MANNINGTON	DESIGNER ESSENTIALS, 255 FROSTED JADE, 12" x 12"	
VCT-6	VINYL COMPOSITION TILE	MANNINGTON	DESIGNER ESSENTIALS, 268 SIERRA, 12" x12"	
VPF-1	VINYL PLANK FLOORING	SHAW, PHILADEPHIA COMMERCIAL	BOSK PRO 5402V, 00600 ROSEWOOD, 4" x 36"	
VPF-2	VINYL PLANK FLOORING	SHAW, PHILADEPHIA COMMERCIAL	BOSK PRO 5402V, 00210 LIGHT CHERRY, 4" x 36"	
MISCELANEOUS FINISHES				
G-1	GROUT	MAPEI	05 CHAMOIS	
PL-1	PLASTIC LAMINATE	FORMICA	WILD CHERRY - 5904-43	
SS-1	SOLID SURFACE	HANEX	BRIONNE, B-022 ORANGE MOON	
SS-2	SOLID SURFACE	HANEX	BRIONNE, BL-007 MAYFAIR	WINDOW STOOL
TP-1	TOILET PARTITION	SCRANTON	TOILET COMPARTMENT, HIDY HIDERS, IMPRESSIONS COLLECTION, SANDSTONE	
TP-2	TOILET PARTITION	SCRANTON	URINAL SCREEN, HIDY HIDERS, IMPRESSIONS COLLECTION, SANDSTONE	
WALL FINISHES				
P-1	PAINT	SHERWIN WILLIAMS	MACADAMIA SW6142	GLOSS LEVEL - 3
P-2	PAINT	SHERWIN WILLIAMS	DAPPER TAN SW6144	GLOSS LEVEL - 5
P-3	PAINT	SHERWIN WILLIAMS	DECOROUS AMBER SW0007	GLOSS LEVEL - 3
P-4	PAINT	SHERWIN WILLIAMS	EMPIRE GOLD SW0012	GLOSS LEVEL - 3
P-5	PAINT	SHERWIN WILLIAMS	CEILING BRIGHT WHITE SW7007	GLOSS LEVEL - 1
P-6	PAINT	SHERWIN WILLIAMS	DECOROUS AMBER SW0007	GLOSS LEVEL - 5
PT-2	PORCELAIN TILE	DAL-TILE	CONTINENTAL SLATE, CS50 EGYPTIAN BEIGE, 12" x 12"	
PT-3	PORCELAIN TILE DECORATIVE BORDER	DAL-TILE	CONTINENTAL SLATE, CS71 DECORATIVE ACCENT, 4" x 12"	
PT-4	PORCELAIN TILE	DAL-TILE	CONTINENTAL SLATE, CS50 EGYPTIANS BEIGE, BULLNOSE S-43C9, 3" x 12"	
WALL PROTECTION FINISHES				
CG-1	CORNER GUARD	ACROVYN	SM-20N, BEIGE 103	
CG-2	CORNER GUARD	ACROVYN	SM-20MN, GINGERSPICE 193	OBSCURE ANGLE WALL CORNER GUARD
CG-3	CORNER GUARD	ACROVYN	SSM-20N, GINGERSPICE 193	END WALL CORNER GUARD
CG-4	CORNER GUARD	ACROVYN	SM-20N, GINGERSPICE 193	
CG-5	CORNER GUARD	ACROVYN	SM-20N, TOFFEE 480	
CR-1	CRASH RAIL	ACROVYN	SCR-40N #372, CLASSIC MAPLE	
HR-1	HANDRAIL	ACROVYN	HRB-10C HANDRAIL:#373, ACCENT: #103, GUARD: #372	
WP-1	WALL PROTECTION	ACROVYN	.060" RIGID 4000 SHEET, BEIGE 103	

NOTE : COLOR & FINISHES AS LISTED IN THE LEGEND ARE NOT BRAND NAME JUSTIFICATIONS. COLORS AND FINISHES AS LISTED, ARE FOR AESTHETIC REFERENCE ONLY.

FULLY SPRINKLERED

Revisions | Date

CONSULTANTS:

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6549
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ARCHITECT/ENGINEERS:
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Drawing Title: FINISH SCHEDULE

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

Building Number: 210

Drawing Number: A801

Dwg. 8 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL FINISH PLAN NOTES

A. See Sheet A801 for Room Finish Schedule.
B. See Sheet A801 for Finish Materials Legend.
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D. See Sheet A802 for Floor Transition Details.
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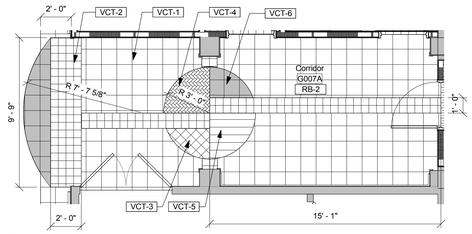
G. Verify all conditions prior to fabrication, erection and installation.
H. See Sheet A803 for typical Wall Tile Pattern.
J. All floor finishes are included in Deduct Alternate #2, U.N.O.

N

FLOOR FINISH PLAN

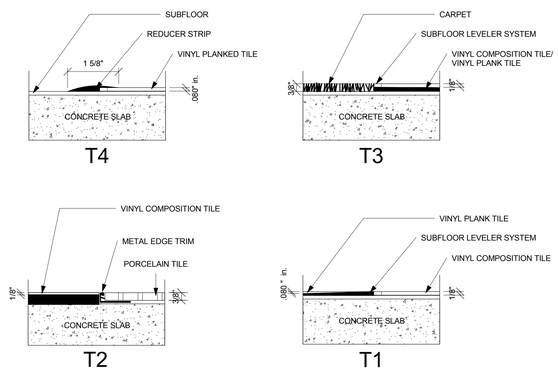
Scale: 1/4" = 1'-0"



B

CORRIDOR - G007A FLOOR PATTERN

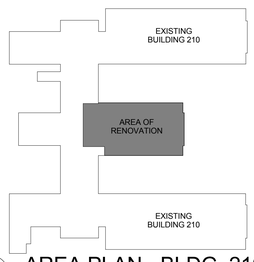
Scale: 1/4" = 1'-0"



A

TRANSITION FLOOR ACCESSORIES

Scale: 6" = 1'-0"



N

AREA PLAN - BLDG. 210

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A POE 6549 — REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: FLOOR FINISH PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A802

Dwg. 9 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

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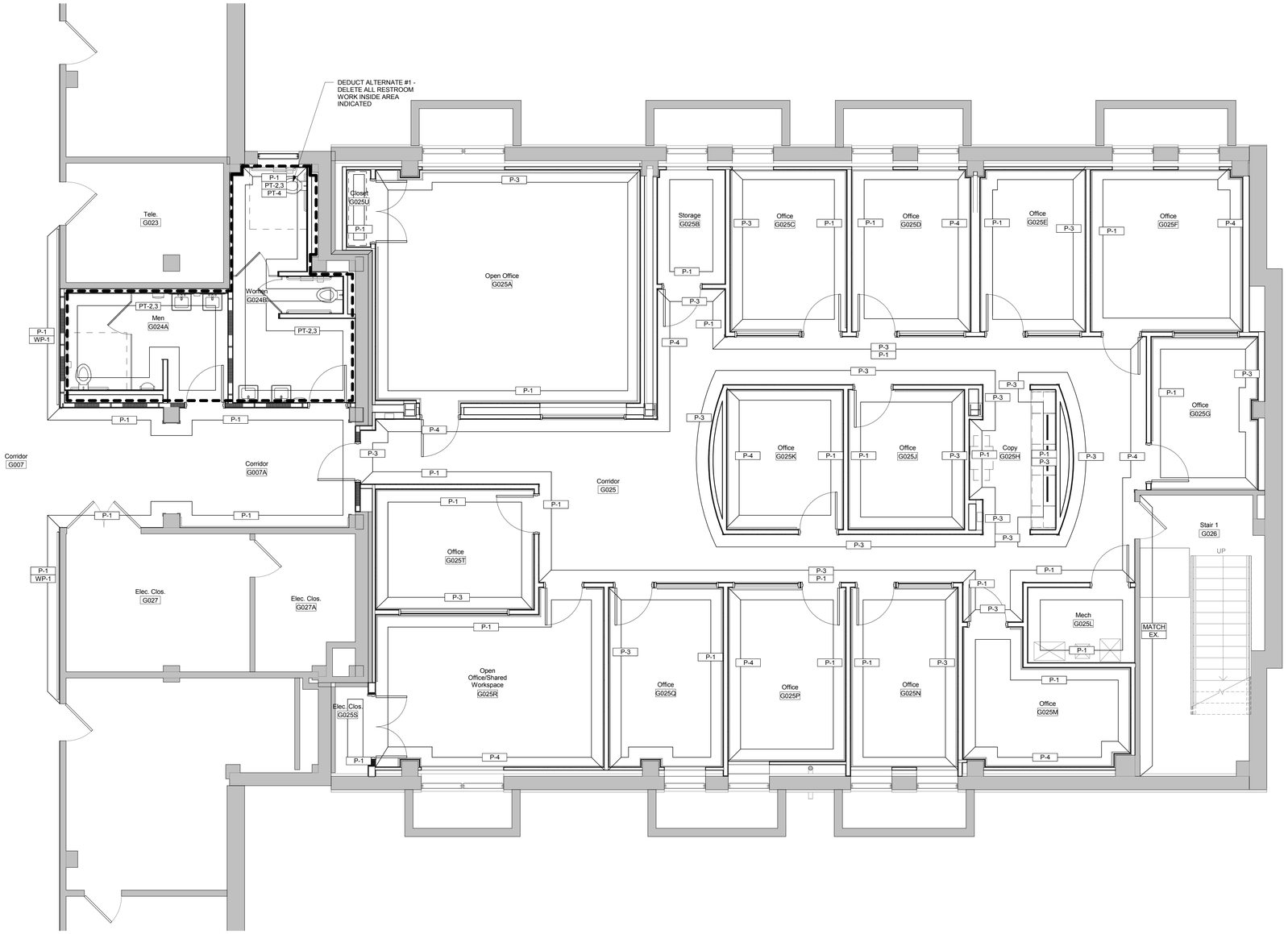
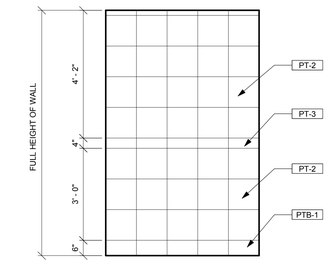


WALL FINISH PLAN

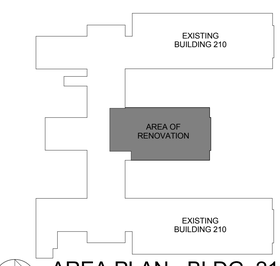
Scale: 1/4" = 1'-0"



A WALL TILE PATTERN

Scale: 1/2" = 1'-0"

DEDUCT ALTERNATE #1



AREA PLAN - BLDG. 210

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

STATE OF OHIO — JOHN A POE 6549 — REGISTERED ARCHITECT

ARCHITECT/ENGINEERS:

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Drawing Title: WALL FINISH PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: A803

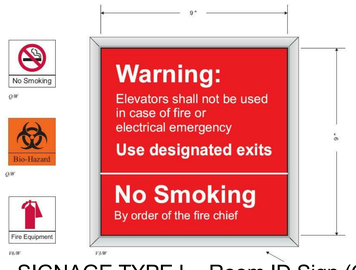
Dwg. 10 of 39

Office of Construction and Facilities Management

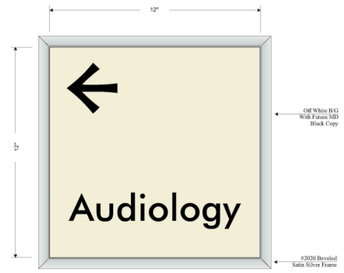
Department of Veterans Affairs

GENERAL SIGNAGE NOTES

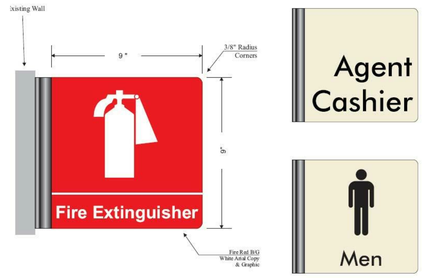
A. Sign graphics based on Creative Signage Systems, Inc. and are for illustration purposes only. Products of other manufactures which are considered equivalent to those specified may be used.
B. See Room Finish Schedule on Sheet A801 for placement of specified signage.
C. Contractor is responsible for removing old signs, repairing and finishing the area before the new signs are installed.
D. Signs are to be screw mounted (not taped).
E. Coordinate with COTR where existing signage will be located.
F. Location and mounting of signage to be coordinated with Resident Interior Designer.



SIGNAGE TYPE L - Room ID Sign (Qty:1)
Scale: 3" = 1'-0"



SIGNAGE TYPE K - Room ID Sign (Qty:)
Scale: 3" = 1'-0"



SIGNAGE TYPE J - Room ID Sign (Qty:1)
Scale: 3" = 1'-0"

SIGNAGE TYPE H - Room ID Sign (Qty: 1)
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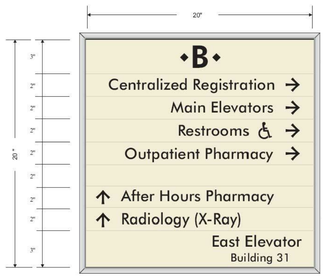

SIGNAGE TYPE G - Room ID Sign (Qty:)
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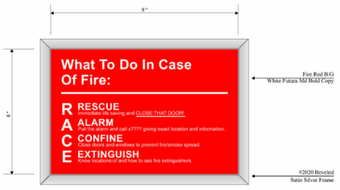
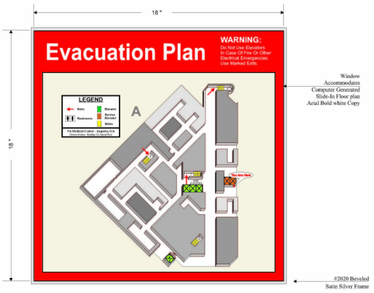
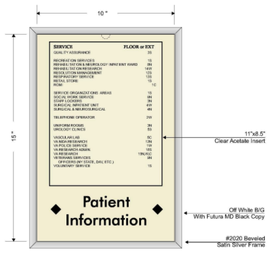


SIGNAGE TYPE F - Room ID Sign (Qty:2)
Scale: 3" = 1'-0"



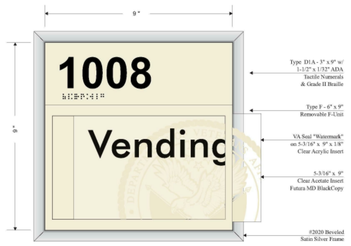
SIGNAGE TYPE E - Room ID Sign (Qty:1)
Scale: 3" = 1'-0"



SIGNAGE TYPE D - Room ID Sign (Qty:1)
Scale: 3" = 1'-0"

SIGNAGE TYPE C - Room ID Sign (Qty:3)
Scale: 3" = 1'-0"

SIGNAGE TYPE B - Room ID Sign (Qty:5)
Scale: 3" = 1'-0"



SIGNAGE TYPE A - Room ID Sign (Qty:14)
Scale: 3" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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6549
REGISTERED ARCHITECT

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Drawing Title: SIGNAGE

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: WS | Drawn: KS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

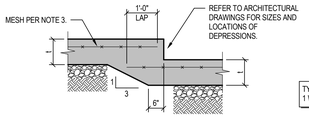
Building Number: 210

Drawing Number: A804

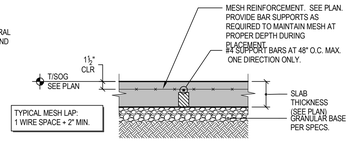
Dwg. 11 of 39

Office of Construction and Facilities Management

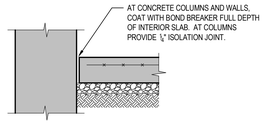
Department of Veterans Affairs



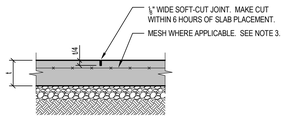
S.O.G. DEPRESSION



TYPICAL S.O.G.

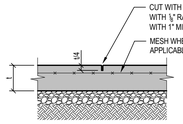


ISOLATION JOINT AT WALLS AND COLUMNS



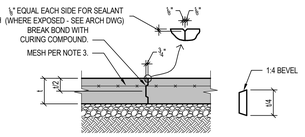
SAWED CONTROL JOINT

(INTERIOR SLABS, UNLESS NOTED OTHERWISE.)
ALTERNATIVELY USE TOOLED CONTROL JOINT.



TOOLED CONTROL JOINT

(EXTERIOR SLABS, UNLESS NOTED OTHERWISE.)

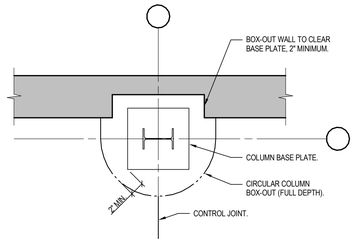


KEYED CONSTRUCTION JOINT

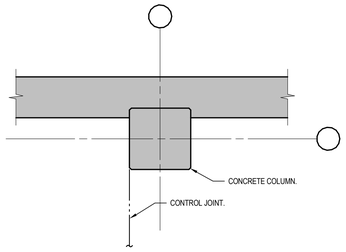
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR JOINTS AT EXTERIOR PAVEMENTS.
2. PROVIDE CONTROL (OR CONSTRUCTION) JOINTS AT ALL COLUMN LINES. ADDITIONALLY PROVIDE CONTROL JOINTS AT MAXIMUM SPACING OF 15'-0" EACH WAY UNLESS OTHERWISE NOTES. PROVIDE CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO ARCHITECT FOR REVIEW.
3. CUT OUT 4" LENGTH OF EVERY OTHER WIRE AT ALL LOCATIONS WHERE MESH CROSSES CONTROL JOINT.
4. ALL CONTROL JOINTS SHALL BE ALIGNED WITH TILE JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
5. REFER TO SPECIFICATIONS FOR GRANULAR BASE AND VAPOR BARRIER REQUIREMENTS.

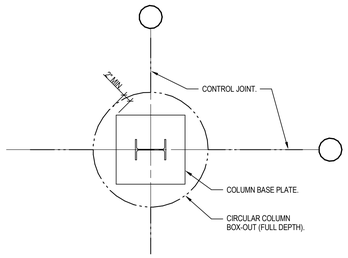
SLAB ON GRADE JOINTS



PERIMETER COLUMN

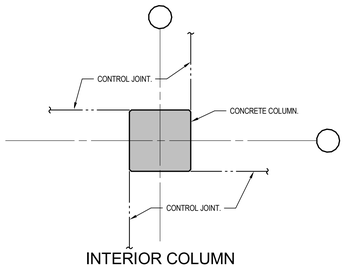


PERIMETER COLUMN



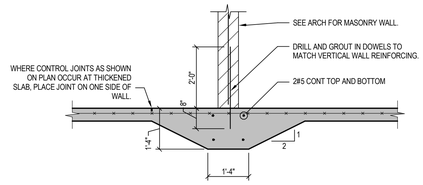
INTERIOR COLUMN

SLAB ON GRADE ISOLATION



INTERIOR COLUMN

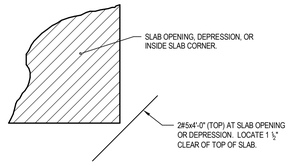
SLAB ON GRADE ISOLATION



NOTES:

1. CONTRACTOR'S OPTION: PLACE SLAB AT 8" CONSTANT THICKNESS MINIMUM 6'-0" IN ALL DIRECTIONS FROM CMU WALLS.
2. THICKENED SLAB NOT REQUIRED WHERE MASONRY WALL IS SUPPORTED ON A FOOTING. SEE FOUNDATION PLAN.

THICKENED SLAB ON GRADE AT MASONRY WALLS



NOTE: DETAIL APPLIES AT BOTH ELEVATED AND SLABS ON GRADE.

TYPICAL BARS AT SLAB CORNER

GENERAL NOTES:

A. CODES AND SPECIFICATIONS

1. OHIO BUILDING CODE, 2011.
2. DEPARTMENT OF VETERANS AFFAIRS SEISMIC DESIGN REQUIREMENTS (H-18-8 JULY 2008).
3. ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
4. AISC 303-05 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
5. ANSI/AWS D1.1 STRUCTURAL WELDING CODE – STEEL

B. FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED UPON THE ORIGINAL CONTRACT DOCUMENTS FOR THIS STRUCTURE, DATED 12/30/2008.
2. FOUNDATION ELEVATIONS SHOWN ARE ESTIMATED AND ARE FOR BIDDING PURPOSES ONLY. ACTUAL ELEVATIONS MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS
3. SPREAD FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 4000 PSF. SOILS UNSUITABLE FOR SUPPORTING FOUNDATIONS SHALL BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER, AND BACKFILLED TO DESIGN BEARING ELEVATION WITH LEAN CONCRETE.
4. ALL BEARING SURFACES SHALL BE UNDISTURBED, LEVEL (WITHIN 1 IN 12), AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
5. UNLESS APPROVED OTHERWISE BY THE GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER, ALL FOOTINGS ARE TO BE POURED NEAT (WITHOUT SIDE FORMS). WHERE EARTH CUTS WILL NOT STAND, SIDES SHALL BE FORMED, SUBJECT TO ENGINEERS' APPROVAL.
6. SET EMBEDS WITH TEMPLATE PRIOR TO CONCRETING.

C. CONCRETE

1. CONCRETE STRENGTHS:
   A. FOOTINGS AND GRADE BEAMS: 3000 PSI
   B. TYPICAL CONCRETE UNLESS NOTED OTHERWISE: 4000 PSI
2. PROVIDE 3/4" BEVELS AT CORNERS OF ALL EXPOSED COLUMNS, EDGES OF EXPOSED BEAMS AND SLABS, AND TOP EDGES AND CORNERS OF EXPOSED WALLS.
3. MAXIMUM LENGTH OF SLAB POURS BETWEEN CONSTRUCTION JOINTS SHALL NOT EXCEED 120 FEET. MAXIMUM AREA OF SLAB POURS NOT TO EXCEED 10,000 SF.
4. JOINTS NOT INDICATED ON STRUCTURAL DRAWINGS ARE NOT PERMITTED UNLESS APPROVED BY STRUCTURAL ENGINEER.
5. PLACE NO OPENINGS, SLEEVES, INSERTS, ETC., IN CONCRETE WORK UNLESS CRITERIA INDICATED ON STRUCTURAL DRAWINGS IS MET, OR IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. CONCRETE CONSTRUCTION TOLERANCES ARE AS SHOWN IN THE PROJECT SPECIFICATIONS.

D. REINFORCING STEEL

1. ALL REINFORCING: 60 KSI YIELD
2. REINFORCE ALL SLABS AS FOLLOWS UNLESS OTHERWISE NOTED, FURNISH WWF IN FLAT SHEETS:
   A. INTERIOR SLABS ON GROUND: 6x6-W4.0xW4.0 (58#) WWF.
3. PROVIDE TENSION SPLICES UNLESS OTHERWISE NOTED.
4. CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE ACI MINIMUM UNLESS OTHERWISE NOTED.

E. STRUCTURAL STEEL

1. MATERIAL:
   A. WIDE FLANGE SHAPES: ASTM A-992 (FY 50 KSI).
   B. OTHER ROLLED SHAPES & PLATES: ASTM A-36 (FY 36 KSI).
   C. STRUCTURAL TUBING, HSS SHAPES: ASTM A-500, GRADE B (FY 46 KSI).
   D. HEADED SHEAR STUDS: COMPLY WITH AWS D1.1
   E. FIELD BOLTS: ASTM A-325, 3/4" MIN. DIA., U.N.O.

F. COORDINATION AND CONSTRUCTION

1. FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS WHICH AFFECT FABRICATION PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION.
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS, SLEEVES, FLOOR PITCHES, FILLS, AND DEPRESSIONS.
3. STRUCTURAL FRAMING PLANS ARE TYPICALLY DRAWN AS REFLECTED PLANS SHOWING BEAMS, WALLS, AND COLUMNS ON THE UNDERSIDE OF THE LEVEL SHOWN.
4. BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
5. VERIFY EXACT SIZE AND LOCATION OF ALL WALL AND FLOOR OPENINGS PRIOR TO SUBMISSION OF SHOP DRAWINGS. SHOW ALL OPENINGS ON SHOP DRAWINGS.
6. PLACEMENT OF CONDUITS IN CONCRETE SHALL ADHERE TO THE FOLLOWING:
   A. OUTSIDE DIAMETER OF CONDUITS SHALL BE 1" OR LESS WHERE EMBEDDED IN SLABS AND 1-1/2" OR LESS WHERE EMBEDDED IN BEAMS.
   B. BUNCHING OF CONDUITS IS NOT PERMITTED. CONDUITS SHALL BE SPACED 3 DIAMETERS OR GREATER ON CENTER, AND 6" MIN. AWAY FROM COMPOSITE SHEAR STUD CONNECTORS.
   C. LONGITUDINAL PLACEMENT OF CONDUITS IN CONCRETE BEAMS SHALL BE LIMITED TO TWO CONDUITS PER BEAM, 6" MIN. FROM REINFORCING.
   D. MINIMUM CONCRETE COVER ON CONDUITS SHALL BE 1-1/2".
   E. ALUMINUM CONDUITS, PIPES, OR SLEEVES ARE NOT PERMITTED.
7. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
8. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF ADEQUACY OF CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

G. MECHANICAL AND OTHER LOADS SUPPORTED FROM STRUCTURE

1. LOADS ARE TO BE DISTRIBUTED TO THE STRUCTURE IN A MANNER THAT DOES NOT EXCEED THE LOAD ALLOWANCES NOTED UNDER DESIGN LOADS. ANCHORS ARE TO HAVE AN ULTIMATE SAFETY FACTOR OF AT LEAST 4.0.
2. LOADS SUPPORTED BY WIDE FLANGE BEAMS ARE TO BE APPLIED IN A MANNER WHICH DOES NOT CAUSE TORSION ABOUT THE LONGITUDINAL AXIS OF THE BEAM.

H. DESIGN LOADS

1. RECONFIGURATION OF BRACE ALTERED LOADING IN THE OVERALL BUILDING LATERAL SYSTEM BY LESS THAN 5 PERCENT.

I. UTILITIES

1. PRIOR TO EXCAVATION AND EARTHWORK, VERIFY LOCATIONS OF UNDERGROUND UTILITIES WITH THE UTILITY COMPANIES, CONSTRUCTION MANAGER, AND/OR OWNER. EXCAVATE OR SURVEY TO ESTABLISH EXACT UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON THE CONTRACT DRAWINGS ARE ONLY APPROXIMATE AND CANNOT BE USED TO ASSURE THE CONTRACTOR OF ADEQUATE CLEARANCE IN CASE OF CLOSE PROXIMITY. COORDINATE ALL WORK WITH THE UTILITIES TO ASSURE THEIR UNINTERRUPTED FUNCTION.
2. ACTIVE UTILITIES SHOWN ON THE CONTRACT DRAWINGS SHALL BE ADEQUATELY PROTECTED FROM DAMAGE. WHERE ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTRUCTION MANAGER, ENGINEER, AND UTILITY OWNER BEFORE PROCEEDING.WORK SHALL BE PROTECTED, SUPPORTED, OR RELOCATED AS DIRECTED, AND THE CONTRACT SUM ADJUSTED ACCORDINGLY
3. INACTIVE AND ABANDONED UTILITIES ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS SHALL BE REPORTED IMMEDIATELY TO THE CONSTRUCTION MANAGER AND ENGINEER. SUCH UTILITIES SHALL THEN BE REMOVED, PLUGGED, OR CAPPED AS DIRECTED. IN THE ABSENCE OF SPECIFIC REQUIREMENTS, PLUG OR CAP SUCH UTILITIES AS REQUIRED BY THE UTILITY OWNER.

J. FIREPROOFING

1. ALL LOAD BEARING METAL STRUCTURAL FRAMING REQUIRES SPRAY-ON FIREPROOFING OR FIRERATED ENCLOSURE. REFER TO THE PROJECT SPECIFICATION AND ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

FULLY SPRINKLERED

Revisions		Date
1	95% OWNER REVIEW	6/15/12
2	BID DOCUMENTS	6/29/12

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Drawing Title: GENERAL NOTES AND TYPICAL DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 4/8/12 | Checked: Approver | Drawn: Designer

Project No.: VA Project No. / JPA Project No. 12001.00

Building Number: 210

Drawing Number: S001

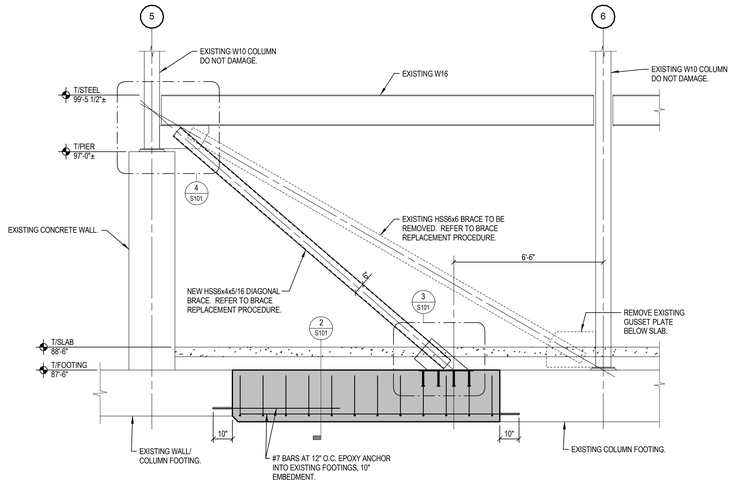
Dwg. of

Office of Construction and Facilities Management

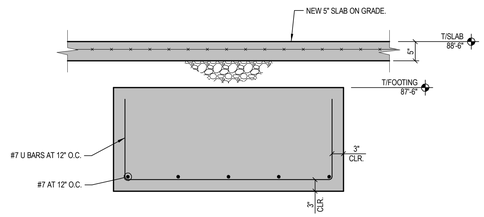
Department of Veterans Affairs

BRACE REPLACEMENT PROCEDURE:

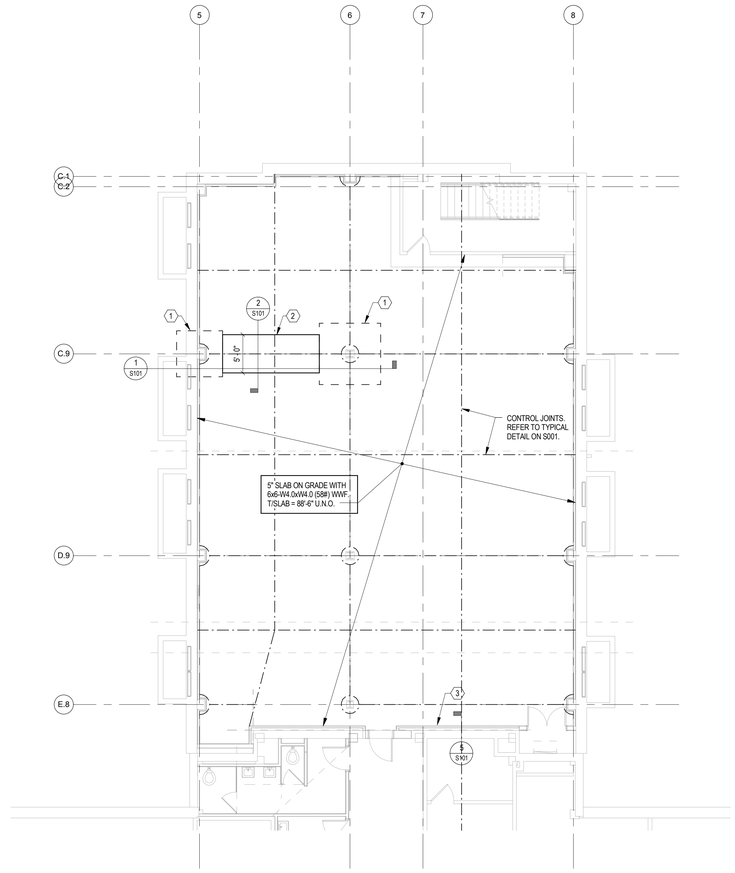
1. INSTALL NEW FOOTINGS.
2. MODIFY EXISTING TOP OF BRACE CONNECTION WITH TEMPORARY STIFFENER PLATE. INSTALL TEMPORARY PLATE ON FIRST SIDE PRIOR TO BEGINNING OF WORK ON THE OPPOSITE SIDE.
3. INSTALL NEW BRACE.
4. REMOVE EXISTING BRACE.

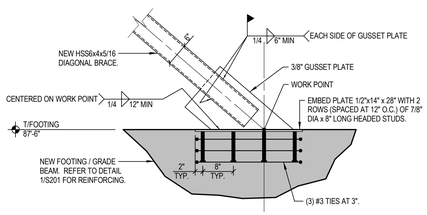


1 S101 SECTION
3/8" = 1'-0"

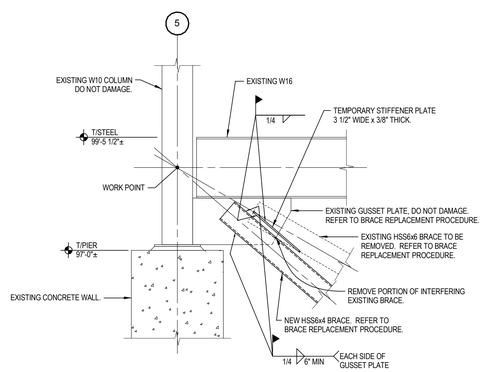


2 S101 SECTION
3/4" = 1'-0"

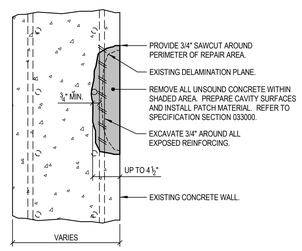




3 S101 SECTION
3/4" = 1'-0"



4 S101 SECTION
3/4" = 1'-0"



VERTICAL SURFACE REPAIR

5 S101 DETAIL
1" = 1'-0"

KEY NOTES:

1. EXISTING FOOTING. PROVIDE DOWELS PER DETAIL 1/S101, OTHERWISE DO NOT DAMAGE.
2. GRADE BEAM / FOOTING FOR MODIFIED BRACE. REFER TO DETAILS FOR REINFORCING AND ADDITIONAL INFORMATION.
3. LOCATION OF DAMAGE TO EXISTING WALL. REPAIR PER DETAIL 5/S101.

A S101 BASEMENT LEVEL / FOUNDATION PLAN
1/8" = 1'-0"

FULLY SPRINKLERED

Revisions		Date
1	95% OWNER REVIEW	6/15/12
2	BID DOCUMENTS	6/29/12

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Drawing Title: FOUNDATION PLAN AND DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 4/8/12 | Checked: KWP | Drawn: MRB

Project No. VA Project No. JPA Project No. 12001.00

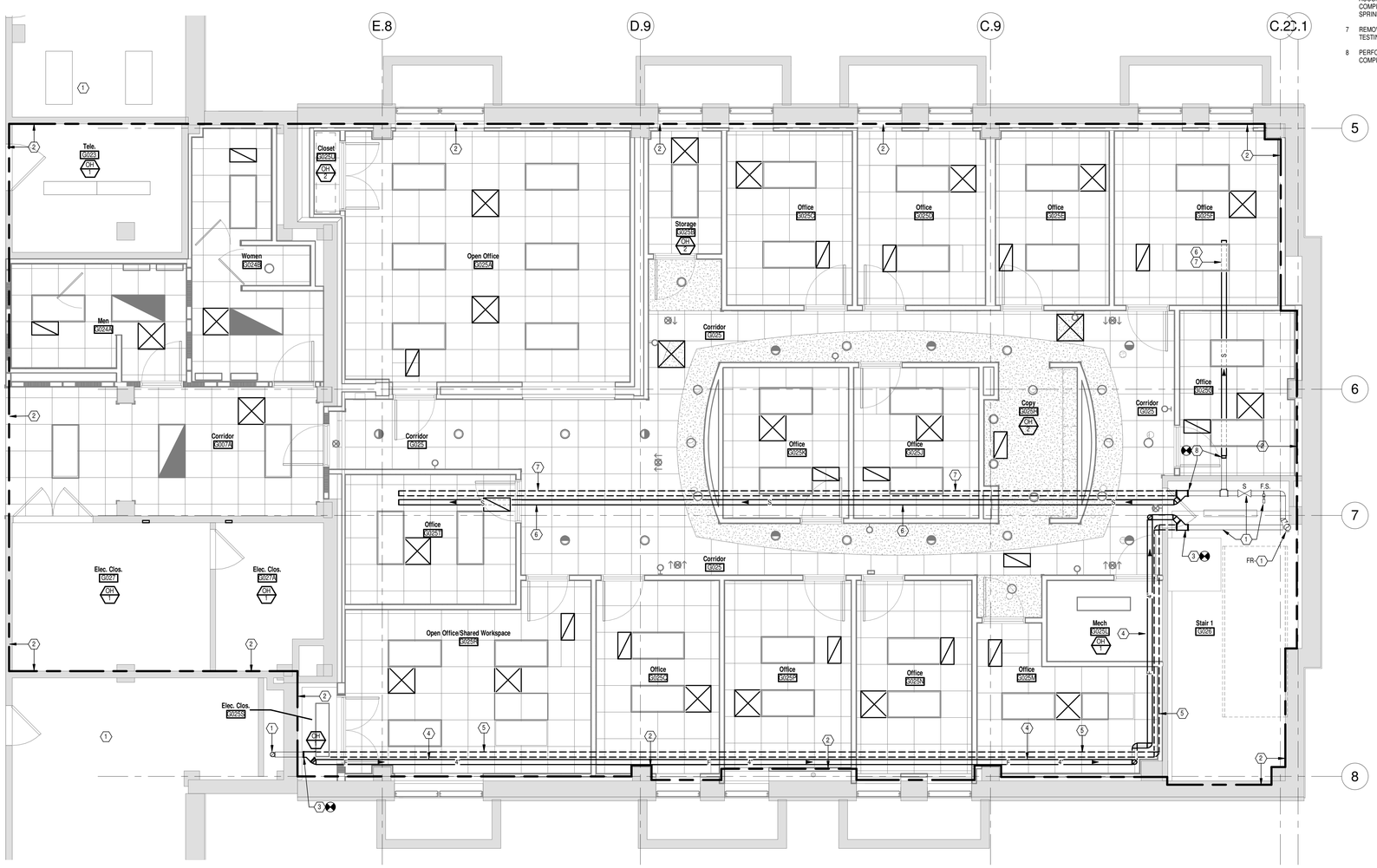
Building Number: 210

Drawing Number: S101

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs



N PARTIAL GROUND FLOOR PLAN

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

F.F.E. = 696.00'

NOTES

1. EXISTING TO REMAIN.
2. REMOVE EXISTING FIRE SUPPRESSION SPRINKLER PIPING (MAIN AND BRANCH PIPING) AND SPRINKLER HEADS IN AREA(S) INDICATED. INSTALL NEW FIRE SUPPRESSION SPRINKLER SYSTEM AT STRUCTURE IN AREA(S) INDICATED, KEEPING MAIN AND BRANCH PIPING AS HIGH IN ELEVATION AS POSSIBLE TO ACCOMMODATE NEW CEILING. COORDINATE ALL WORK WITH H.C., P.C. AND G.C.
3. PERFORM "AFTER HOURS" CHANGE-OVER OF FIRE SUPPRESSION MAIN UPON COMPLETION OF NEW PARALLEL 4" FIRE SUPPRESSION MAIN. COORDINATE "AFTER HOURS" WORK AND SYSTEM DOWNTIME WITH C.O.T.R.
4. PROVIDE NEW 4" FIRE SUPPRESSION MAIN PARALLEL TO EXISTING 4" FIRE SUPPRESSION MAIN. PARALLEL MAIN SHALL BE COMPLETE, TESTED AND READY FOR SERVICE BEFORE CONNECTION(S) TO EXISTING 4" FIRE SUPPRESSION MAIN AS INDICATED.
5. REMOVE EXISTING 4" FIRE SUPPRESSION MAIN UPON COMPLETION, TESTING AND OPERATION OF NEW 4" FIRE SUPPRESSION MAIN.
6. PROVIDE NEW SPRINKLER MAIN AND BRANCH PIPING PARALLEL TO EXISTING SPRINKLER SYSTEM AND INSTALL AS HIGH IN ELEVATION AS POSSIBLE AT/NEAR STRUCTURE TO ACCOMMODATE DUCTWORK AND NEW CEILING. PARALLEL SPRINKLER SYSTEM SHALL BE COMPLETE, TESTED AND READY FOR SERVICE BEFORE CONNECTION(S) TO EXISTING SPRINKLER MAIN AS INDICATED.
7. REMOVE EXISTING FIRE SUPPRESSION SPRINKLER SYSTEM UPON COMPLETION, TESTING AND OPERATION OF NEW SPRINKLER SYSTEM.
8. PERFORM CHANGE-OVER OF FIRE SUPPRESSION SPRINKLER SYSTEM UPON COMPLETION OF NEW PARALLEL FIRE SUPPRESSION SPRINKLER SYSTEM.

FIRE SUPPRESSION DESIGN NOTES

A PROVIDE A COMPLETE FIRE SUPPRESSION SPRINKLER SYSTEM IN THE RENOVATED AREAS.

B COORDINATE WORK WITH VAMC, PHASING PLAN AND OTHER TRADES. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFFSETTING AND/OR RELOCATING EXISTING SERVICES TO ACCOMMODATE NEW WORK OF OTHER TRADES.

C DESIGN SERVICES SHALL FOLLOW ALL VA STANDARD DESIGN PRACTICES, DETAILS, SPECIFICATIONS AND SITE SPECIFIC C.O.T.R. REQUIREMENTS AS WELL. AS WORK SHOWN ON THESE DOCUMENTS. ALL DEVIATIONS FROM AFOREMENTIONED REQUIREMENTS SHALL BE APPROVED BY THE C.O.T.R.

D THE F.S.C. SHALL VERIFY THAT THERE IS ADEQUATE SPACE TO INSTALL ALL NEW PIPING REQUIRED TO COMPLETE THIS WORK.

E ALL SPRINKLER PIPING IS LOCATED ABOVE THE CEILING (AT THE BOTTOM OF STRUCTURE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.

F THE BASIS OF DESIGN OF SPACING AND SIZING FOR THE COMPLETE FIRE SUPPRESSION SPRINKLER SYSTEM IS FOR A WET PIPE SYSTEM HYDRAULICALLY CALCULATED FOR A:

1 LIGHT HAZARD AREA LIMITED TO A MAXIMUM OF 225 SQ. FT. PER SPRINKLER WITH THE DENSITY OF 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. PROVIDE AN ADDITION OF 100 GPM HOSE ALLOWANCE.

2 ALL MECHANICAL, ELECTRICAL AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 1) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.15 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 HOSE ALLOWANCE.

3 ALL STORAGE, TRASH, FILE STORAGE AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 2) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.20 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 GPM HOSE ALLOWANCE.

G ALL HEAD LOCATIONS AND RELATED PIPING SHALL BE BY THE F.S.C.

H THE ENTIRE SPRINKLER SYSTEM SHALL CONFORM TO VAMC, LOCAL, STATE AND NFPA STANDARDS, RULES AND REGULATIONS.

I THE F.S.C. SHALL CAREFULLY COORDINATE THE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES AND THE ARCHITECT.

J THE F.S.C. SHALL VERIFY THE LOCATION OF ALL LIGHTING FIXTURES AND AIR DEVICES BEFORE INSTALLATION OF SPRINKLER HEADS.

K ALL SPRINKLER PIPING LAYOUT AND SIZING SHALL BE BY THE F.S.C.

L ALL HEAD LOCATIONS MUST BE COORDINATED WITH ALL EQUIPMENT KINDRED TO OTHER TRADES. HEAD LOCATIONS MUST BE APPROVED BY THE ARCHITECT BEFORE WORK COMMENCES. REFER TO THE ARCHITECTURAL AND REFLECTIVE CEILING PLANS FOR ADDITIONAL INFORMATION ON ALL CEILING TYPES, HEIGHTS, AND OTHER ARCHITECTURAL FEATURES.

M THE F.S.C. SHALL MAKE NECESSARY FLOW TEST, LAY OUT SYSTEMS, OBTAIN APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING ANY FABRICATION OR INSTALLATION WORK.

N SPRINKLER PIPING SHALL BE MINIMUM 1" SIZE.

O SPRINKLER HEADS (UNLESS OTHERWISE NOTED): EXPOSED AREAS - UPRIGHT OR PENDENT TYPE - STANDARD BRASS CEILING AREAS - RECESSED PENDENT TYPE. ALL HEADS SHALL BE UL LISTED AND FM APPROVED.

P SPRINKLER HEADS SHALL BE "QUICK RESPONSE" TYPE IN ALL AREAS EXCEPT HIGH TEMPERATURE AREAS.

Q ALL PENDENT TYPE SPRINKLER HEADS LOCATED IN SUSPENDED CEILING TILE AREAS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE.

R ANNULAR SPACE AT PIPE AND OTHER SIMILAR PENETRATION OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. REFER TO SPECIFICATION SECTION 07 84 00 FIRESTOPPING. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION, LAYOUT AND FIRE RATING OF FLOORS, WALLS, PARTITIONS AND OTHER BUILDING ELEMENTS.

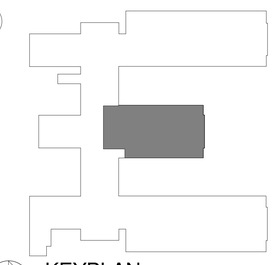
S REFER TO SPECIFICATION SECTION 21 13 13 FOR FLOW TEST INFORMATION.

T ALL EXISTING SMOKE COMPARTMENTS SHALL BE MAINTAINED. ALL SPRINKLER ZONES SHALL MATCH SMOKE COMPARTMENTS.

U REFER TO ARCHITECTURAL SHEET A101 FOR INFORMATION ON SMOKE COMPARTMENTS, SMOKE PARTITIONS & FIRE BARRIERS.

LEGEND

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
F.S.C.	FIRE SUPPRESSION CONTRACTOR
H.C.	HVAC CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
S.U.C.	SITE UTILITY CONTRACTOR
	SHUTOFF VALVE
	DIRECTION OF FLOW
F	FIRE SUPPRESSION PIPE
S	SPRINKLER PIPE (WET)
S	SUPERVISED VALVE
FS	FLOW SWITCH
FR	FIRE RISER
OH 1	FIRE SUPPRESSION HAZARD CLASSIFICATION ORDINARY HAZARD / GROUP 1
3	"NOTE" SYMBOL (FOR NOTES ON SAME SHEET)
123	ROOM NUMBER
	"CONNECT TO EXISTING" SYMBOL



N KEYPLAN

Scale: 1" = 60'-0"

DRAWING INDEX - FIRE SUPPRESSION	
SHEET	DESCRIPTION
210-FS1	PARTIAL GROUND FLOOR PLAN - NEW WORK

FULLY SPRINKLERED

Revisions	Date

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Heapy Project No.: 2011-04028 Firm License No.: 01528

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Drawing Title: PARTIAL GROUND FLOOR PLAN - NEW WORK

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-FS1

Dwg. 14 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL NOTES

A ALL PIPING IS ABOVE THE CEILING (AT THE UNDERSIDE OF STRUCTURE IN EXPOSED STRUCTURE AREAS), UNLESS OTHERWISE NOTED.

B REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR PIPING, PIPE SIZES AND PIPELINE DEVICES NOT INDICATED ON THE FLOOR PLAN.

C ABOVE CEILING UTILITY SPACE IS LIMITED. COORDINATION WITH ALL TRADES IS CRITICAL, PRIOR TO INSTALLATION ON ANY WORK.

D LOCATIONS AND SIZES OF EXISTING PIPING HAVE BEEN DETERMINED FROM A REVIEW OF EXISTING DRAWINGS AND/OR SITE INSPECTION, WHERE POSSIBLE. FIELD VERIFICATION OF EXACT LOCATIONS, ELEVATIONS, INVERTS, SIZES, DIRECTION OF FLOW, ETC. SHALL BE REQUIRED PRIOR TO BEGINNING NEW WORK.

E ALL PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED, OR REMOVED BACK TO POINTS OF CONNECTION OF NEW WORK. INACCESSIBLE PIPING, WHERE SO NOTED, TO BE ABANDONED SHALL BE DISCONNECTED FROM ACTIVE MAINS AND CAPPED OR PLUGGED IN CONCEALED LOCATIONS.

F NEW CONNECTIONS TO EXISTING PIPING SHALL BE WITH THE SAME SIZE AS THE EXISTING PIPING UNLESS OTHERWISE NOTED.

G ALL REMOVED MATERIAL AND EQUIPMENT SO DESIGNATED BY THE C.O.T.R., SHALL BE TURNED OVER AND PLACED WHERE DIRECTED. ALL MATERIAL AND EQUIPMENT, WHICH THE C.O.T.R. DOES NOT WISH TO RETAIN, SHALL BECOME THE PROPERTY OF THE CONTRACTOR RESPONSIBLE FOR THE REMOVAL.

H REFER TO THE ARCHITECTURAL PLANS FOR PROJECT PHASING REQUIREMENTS.

I REFER TO ARCHITECTURAL SHEET A101 FOR INFORMATION ON SMOKE COMPARTMENTS, SMOKE PARTITIONS & FIRE BARRIERS.

LEGEND

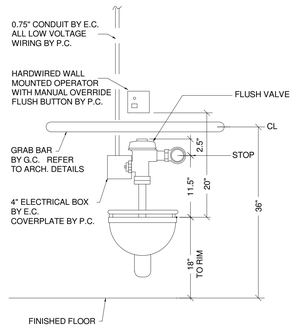
G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
H.C.	HVAC CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	SOIL AND OR WASTE PIPE (SP) OR (WP)
	VENT PIPE
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	DOMESTIC HOT WATER RETURN PIPE
MA	MEDICAL AIR PIPE
MV	MEDICAL VACUUM PIPE
O2	OXYGEN PIPE
	SHUT-OFF VALVE (BALL)
	EXISTING PIPE TO BE REMOVED
	DIRECTION OF FLOW
P103	UP TO FIXTURE ABOVE
3	"NOTE" SYMBOL (FOR NOTES ON SAME SHEET)
	"CONNECT TO EXISTING" SYMBOL
SS	SANITARY STACK (SOIL/WASTE)
SR	SUPPLY RISER
VR	VENT RISER
CO	CLEANOUT
FD1	FLOOR DRAIN
123	ROOM NUMBER
P418	PLUMBING FIXTURE DESIGNATION
F.F.E.	FINISHED FLOOR ELEVATION
WC	WATER CLOSET
SK	SINK
SH	SHOWER
FD	FLOOR DRAIN
SV	SERVICE SINK

FIXTURE SCHEDULE

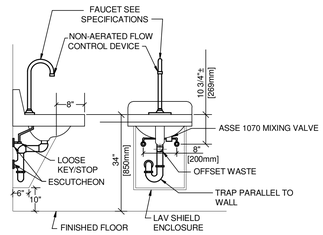
SYMBOL	MOUNTING HEIGHT	DESCRIPTION			FIXTURE UNITS		SUPPLY			DRAINAGE CONNECTION					REMARKS
			GPF	GPM	DRAINS	WATER C/H	COLD	HOT	CHILLED	OUTLET	VENT		DIRECT	INDIRECT	
P103	18" TO RIM	WATER CLOSET/WALL HUNG/ELONGATED BOWL/ADA	1.28	-	4	5/- -	1"	- -	- -	4"	2"		●	- -	HARD-WIRED/SENSOR OPERATED
P107	16" TO RIM	WATER CLOSET/WALL HUNG/ELONGATED BOWL	1.28	-	4	5/- -	1"	- -	- -	4"	2"		●	- -	HARD-WIRED/SENSOR OPERATED
P201	17" TO RIM	URINAL/WALL HUNG/ADA	0.5	-	2	2/- -	0.75"	- -	- -	2"	1.5"		●	- -	HARD-WIRED/SENSOR OPERATED
P418	34" TO RIM	LAVATORY/WALL HUNG/20"x18"/ADA	-	0.5	1	0.6/0.6	0.5"	0.5"	- -	1.5"	1.5"		●	- -	HARD-WIRED/SENSOR OPERATED/NON-AERATED FLOW CONTROL/ GOOSENECK SPOUT/LAV SHIELD

DRAIN SCHEDULE

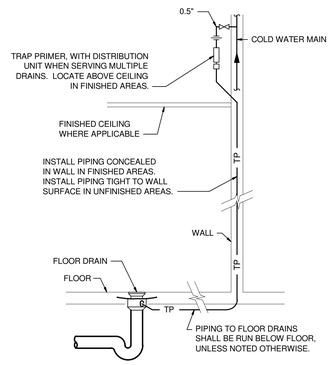
SYMBOL	DESCRIPTION	BODY				STRAINER / GRATE						TOP FINISH					
		C.I.	S.S.	C.R.	BRASS	RD.	SQ.	ADJUST.	FLAT	RECESS	DOME	NICKEL BRONZE	C.I.	C.R.	S.S.		
FD1	3" MEDIUM DUTY/DOUBLE DRAINAGE/VANDAL RESISTANT (TYPE C)/TRAP PRIMER CONNECTION	●	- -	- -	- -	●	- -	●	●	- -	- -	●	- -	- -	- -		



P103 WATER CLOSET (A / P1)
SCALE: NONE



P418 WALL HUNG LAVATORY (B / P1)
SCALE: NONE



TRAP PRIMER (C / P1)
SCALE: NONE

DRAWING INDEX - PLUMBING	
SHEET	DESCRIPTION
P1	LEGEND, SCHEDULES, INDEX, DETAILS & NOTES
210-P1	PARTIAL FOUNDATION PLAN - NEW WORK
210-P2	PARTIAL GROUND FLOOR PLAN - SANITARY NEW WORK
210-P3	PARTIAL GROUND FLOOR PLAN - SANITARY REMOVALS
210-P4	PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER NEW WORK
210-P5	PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER REMOVALS
210-P6	SOIL, WASTE AND VENT

FULLY SPRINKLERED

Revisions	Date

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Heapy Project No.: 2011-04028 Firm License No.: 01528

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Drawing Title: LEGEND, SCHEDULES, INDEX, DETAILS & NOTES

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: P1
Dwg. 15 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL NOTES

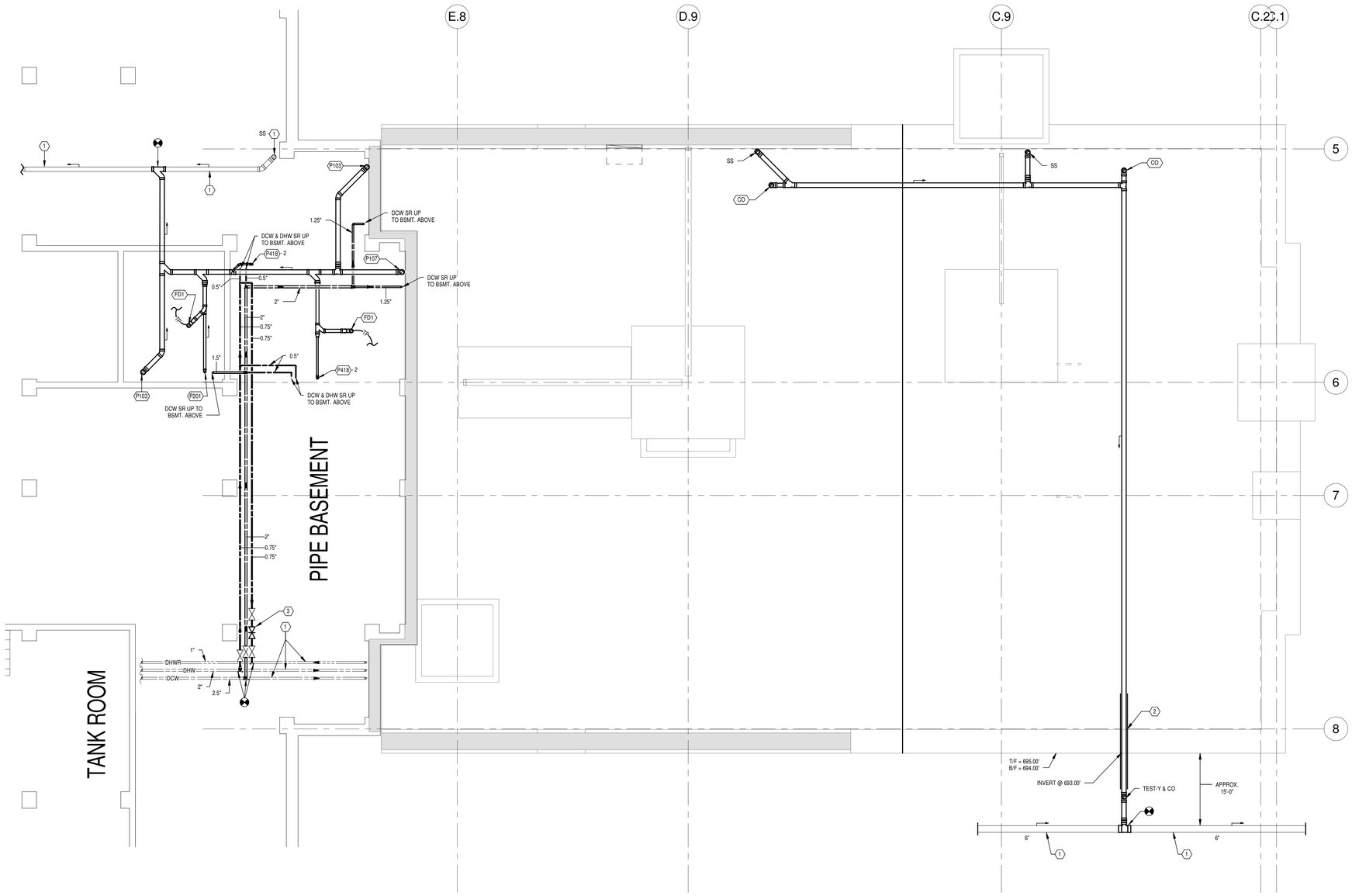
A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

NOTES

1 EXISTING TO REMAIN.

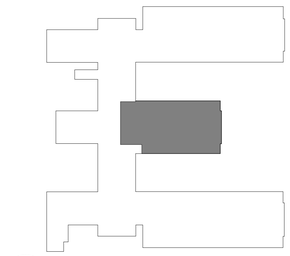
2 ENCASE 4" SANITARY PIPING IN A 8" CAST IRON SLEEVE TO A DISTANCE OF 3'-0" TO EITHER SIDE OF CONTINUOUS FOOTER.

3 SET BALANCING VALVE TO FLOW 0.5 GPM.



N PARTIAL FOUNDATION PLAN

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



N KEYPLAN

Scale: 1" = 60'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL FOUNDATION PLAN - NEW WORK

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

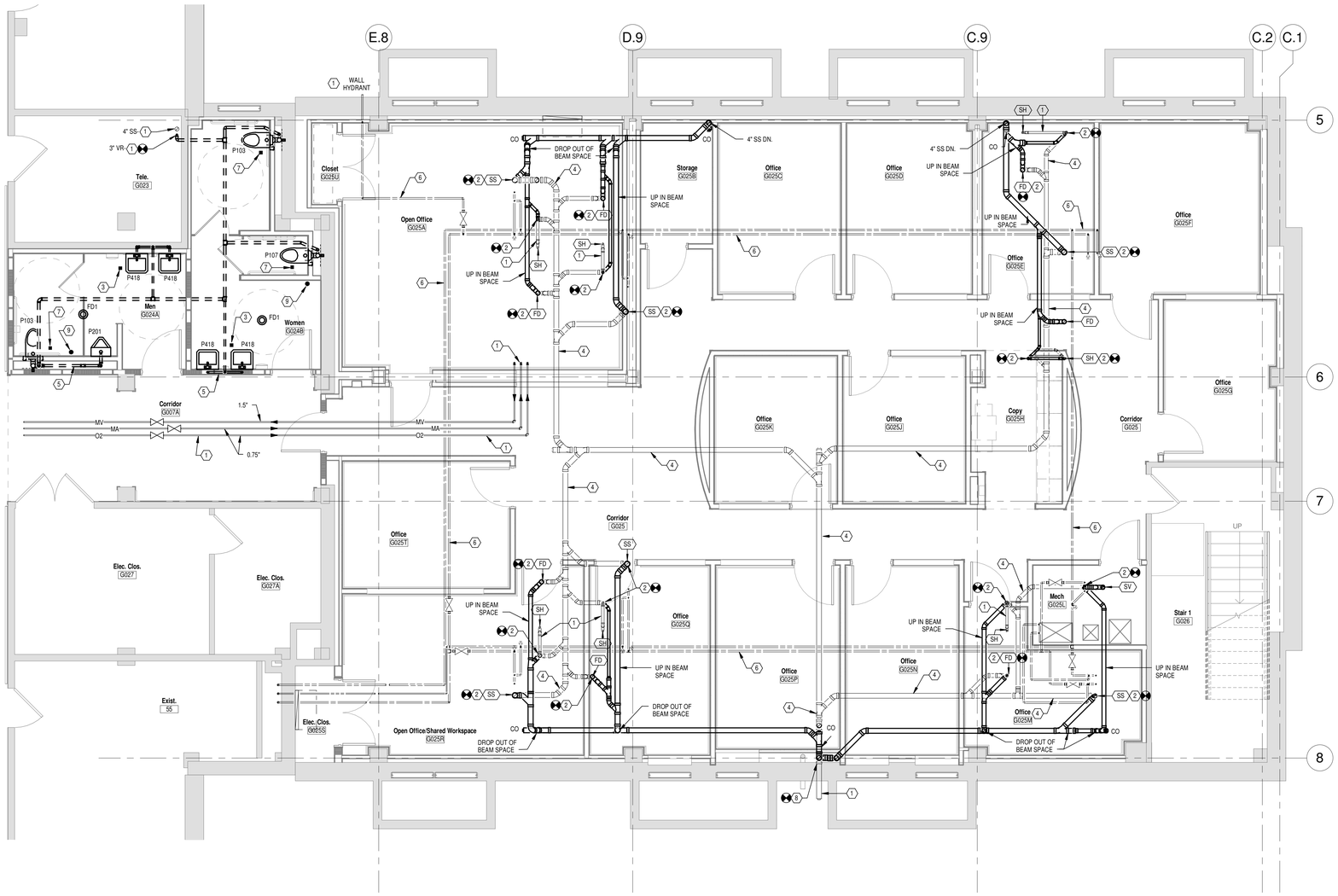
Building Number: 210

Drawing Number: 210-P1

Dwg. 16 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs



N PARTIAL GROUND FLOOR PLAN - SANITARY

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

F.F.E. = 696.00'

GENERAL NOTES

A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

NOTES

1 EXISTING TO REMAIN.

2 INSTALL PARALLEL SANITARY PIPING SYSTEM UP IN BEAM SPACES AND EXTEND OVER TO NEAR EXTERIOR WALLS AS INDICATED BEFORE DROPPING OUT OF BEAM SPACE TO ACCOMMODATE INSTALLATION OF DUCTWORK, LIGHT FIXTURES AND CEILINGS. CONNECTIONS OF EXISTING SANITARY PIPING TO NEW PARALLEL SANITARY SYSTEM SHALL BE PERFORMED "AFTER HOURS" AND ONE SECTION AT A TIME TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE. CLOSE COORDINATION WITH THE PROJECT C.O.T.R. OF "AFTER HOURS" WORK AND SHUT-DOWNS OF SECTIONS OF THE EXISTING SANITARY SYSTEM IS REQUIRED WITH MINIMAL DOWNTIME.

3 BOX MOUNTED TRANSFORMER LOCATED ABOVE CEILING TO CONTROL SENSOR OPERATED FAUCET ON FIXTURE(S) BELOW. 120V - 1PH POWER WILL BE LOCATED IN A WIRING BOX ABOVE THE CEILING BY THE E.C. A 0.75" CONDUIT (FOR LOW VOLTAGE WIRING) STUBBED ABOVE THE CEILING AND EXTENDED DOWN TO AN ELECTRICAL WALL BOX LOCATED BELOW EACH LAVATORY WILL BE PROVIDED BY THE E.C. TRANSFORMER AND LOW VOLTAGE WIRING SHALL BE BY THE P.C. THE P.C. SHALL COORDINATE ALL WORK WITH THE E.C.

4 THE EXISTING SANITARY SYSTEM SHALL REMAIN IN PLACE AND IN SERVICE UNTIL THE NEW PARALLEL SANITARY SYSTEM IS INSTALLED AND ALL CONNECTIONS OF THE EXISTING SANITARY PIPING TO THE NEW PARALLEL SYSTEM HAVE BEEN PERFORMED AND SYSTEM HAS BEEN TESTED TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE.

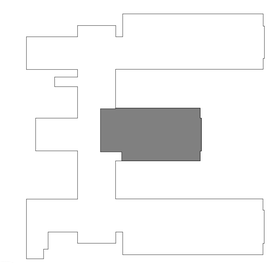
5 PIPING LOCATED IN PLUMBING CHASE/WALL ABOVE EXISTING FLOOR SLAB.

6 EXISTING DOMESTIC WATER SYSTEM SHALL REMAIN IN PLACE AND IN SERVICE.

7 BOX MOUNTED TRANSFORMER LOCATED ABOVE CEILING TO CONTROL SENSOR OPERATED FLUSH VALVE ON FIXTURE(S) BELOW. 120V - 1PH POWER WILL BE LOCATED IN A WIRING BOX ABOVE THE CEILING BY THE E.C. A 0.75" CONDUIT (FOR LOW VOLTAGE WIRING) STUBBED ABOVE THE CEILING AND EXTENDED DOWN TO AN ELECTRICAL WALL BOX LOCATED AT EACH FIXTURE WILL BE PROVIDED BY THE E.C. TRANSFORMER AND LOW VOLTAGE WIRING SHALL BE BY THE P.C. THE P.C. SHALL COORDINATE ALL WORK WITH THE E.C.

8 CONNECTION OF NEW PARALLEL SANITARY MAIN TO EXISTING BUILDING SEWER. THE EXISTING SANITARY SYSTEM SHALL REMAIN IN PLACE AND IN SERVICE UNTIL THE NEW PARALLEL SANITARY SYSTEM IS INSTALLED AND ALL CONNECTIONS OF THE EXISTING SANITARY STACKS TO THE NEW PARALLEL SYSTEM HAVE BEEN PERFORMED AND SYSTEM HAS BEEN TESTED TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE.

9 TRAP PRIMER, REFER TO DETAIL C/P1.



N KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL GROUND FLOOR PLAN - SANITARY NEW WORK

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-P2

Dwg. 17 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

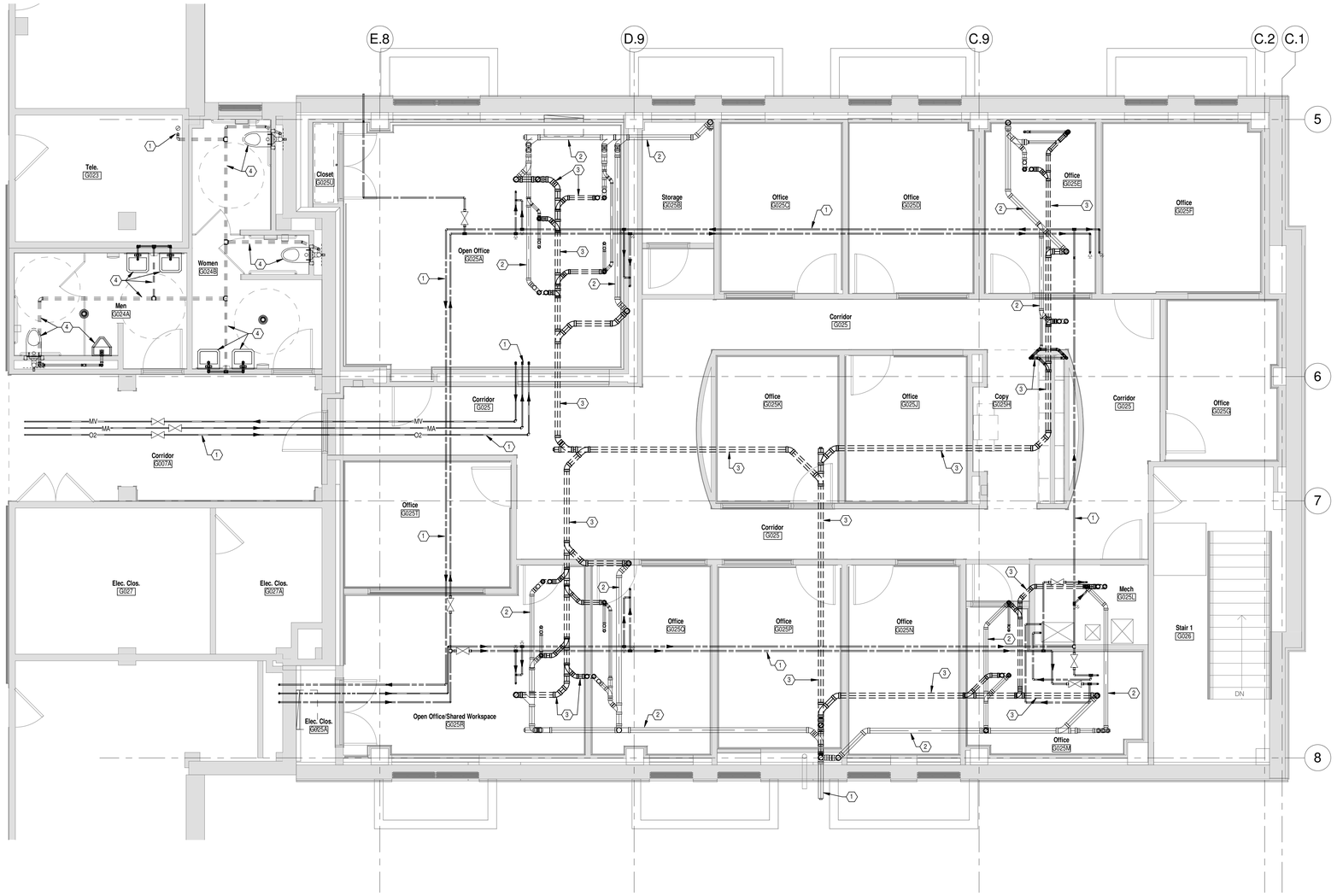
NOTES

1 EXISTING TO REMAIN.

2 PARALLEL SANITARY SYSTEM INSTALLED UNDER PREVIOUS PHASE TO REMAIN.

3 COMPLETELY REMOVE EXISTING SANITARY PIPING AS INDICATED AFTER ALL CONNECTIONS OF EXISTING SANITARY PIPING TO THE NEW PARALLEL SANITARY SYSTEM HAVE BEEN PERFORMED AND THE SYSTEM HAS BEEN TESTED.

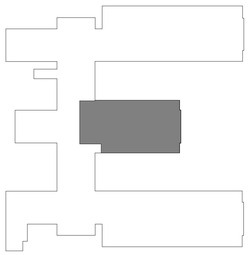
4 NEW FIXTURE(S) AND ASSOCIATED PIPING SYSTEM(S) INSTALLED UNDER PREVIOUS PHASE TO REMAIN.



N PARTIAL GROUND FLOOR PLAN - SANITARY

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

F.F.E. = 696.00'



N KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL GROUND FLOOR PLAN - SANITARY REMOVALS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-P3

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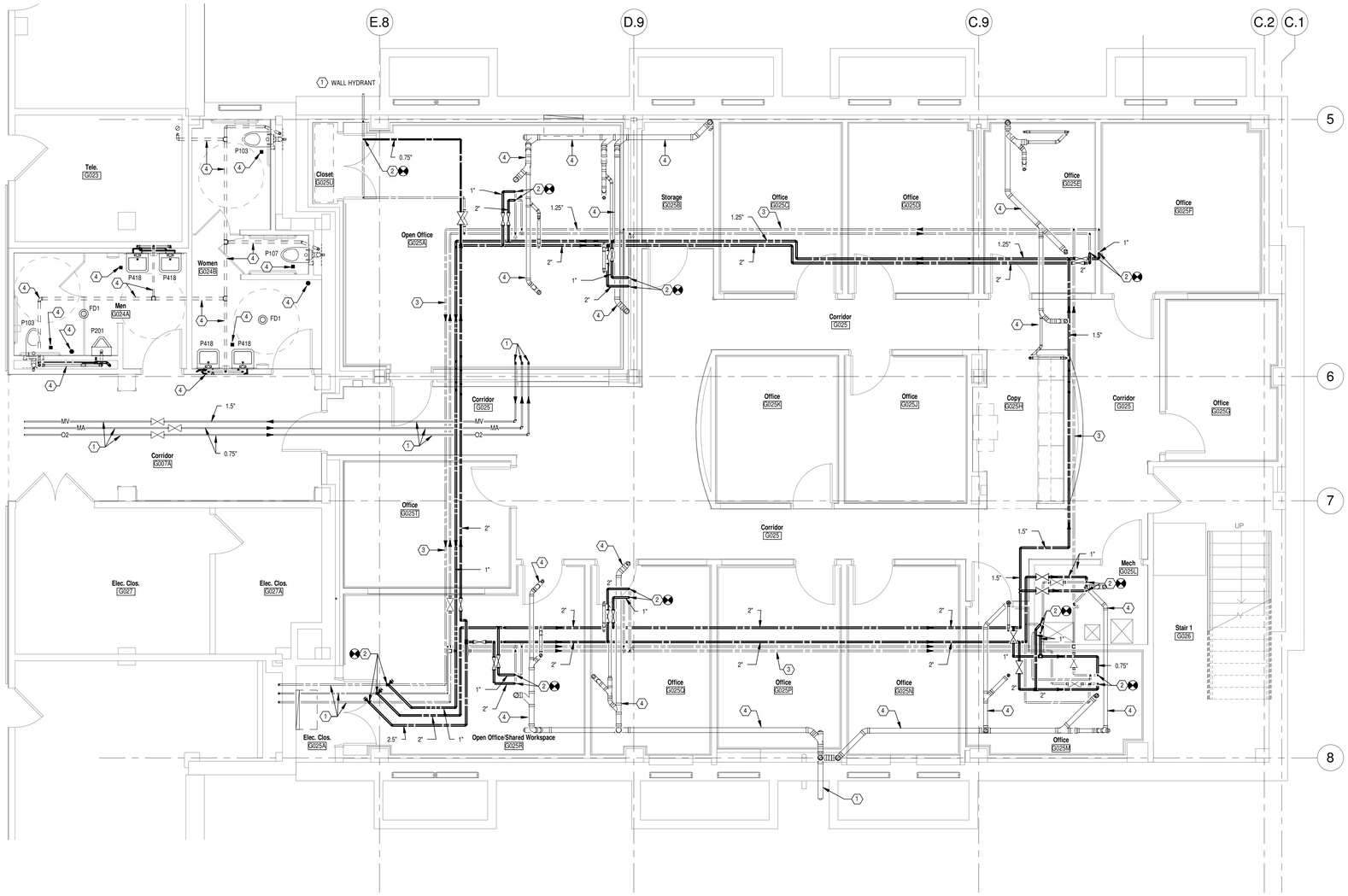
Office of Construction and Facilities Management

Department of Veterans Affairs



N PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER

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

F.F.E. = 696.00'

GENERAL NOTES

A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

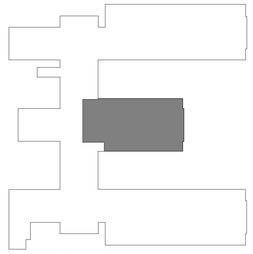
NOTES

1 EXISTING TO REMAIN.

2 INSTALL PARALLEL DOMESTIC WATER PIPING SYSTEM AS CLOSE TO STRUCTURE AS POSSIBLE TO ACCOMMODATE INSTALLATION OF NEW DUCTWORK, LIGHT FIXTURES AND CEILINGS AND EXTEND TO MAKE CONNECTIONS TO EXISTING DOMESTIC WATER SUPPLY RISERS. CONNECTIONS TO NEW PARALLEL DOMESTIC WATER SYSTEM SHALL BE PERFORMED "AFTER HOURS" AND ONE SECTION AT A TIME TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE. CLOSE COORDINATION WITH THE PROJECT C.O.T.R. OF "AFTER HOURS" WORK AND SHUT-DOWNS OF SECTIONS OF THE EXISTING DOMESTIC WATER SYSTEM IS REQUIRED WITH MINIMAL DOWNTIME.

3 THE EXISTING DOMESTIC WATER SYSTEM SHALL REMAIN IN PLACE AND IN SERVICE UNTIL THE NEW PARALLEL DOMESTIC WATER SYSTEM IS INSTALLED AND ALL CONNECTIONS OF THE EXISTING DOMESTIC WATER SUPPLY RISERS TO THE NEW PARALLEL SYSTEM HAVE BEEN PERFORMED AND SYSTEM HAS BEEN TESTED TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE.

4 PIPING/EQUIPMENT INSTALLED UNDER PREVIOUS PHASE TO REMAIN.



N KEYPLAN

Scale: N.T.S.

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Revisions	Date

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Drawing Title: PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER NEW WORK

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-P4

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

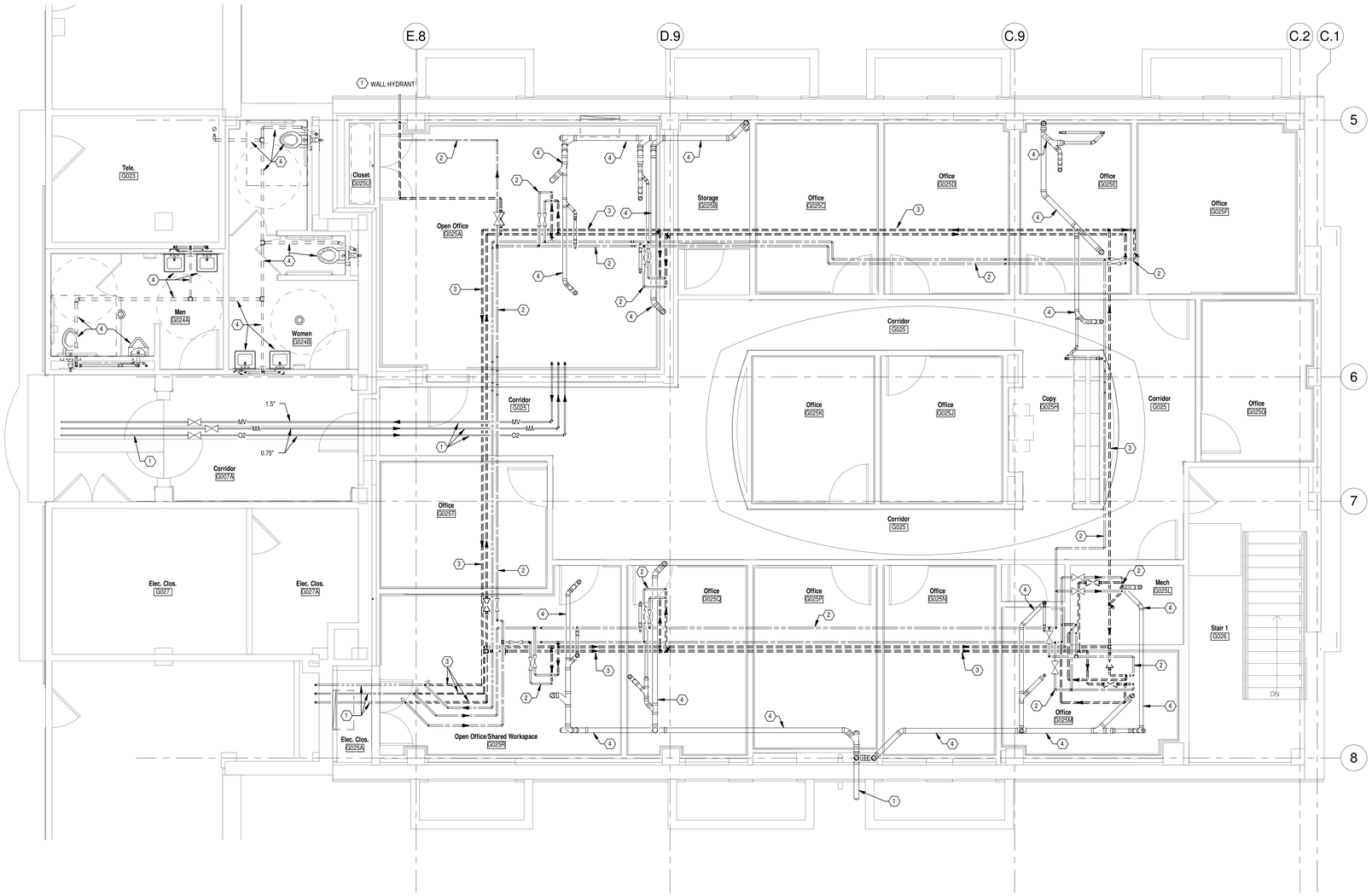
NOTES

1 EXISTING TO REMAIN.

2 PARALLEL DOMESTIC WATER SYSTEM INSTALLED UNDER PREVIOUS PHASE TO REMAIN.

3 REMOVE EXISTING DOMESTIC WATER SYSTEM PIPING AFTER ALL CONNECTIONS OF EXISTING DOMESTIC WATER SUPPLY RISERS TO THE NEW PARALLEL DOMESTIC WATER SYSTEM HAVE BEEN PERFORMED AND THE SYSTEM HAS BEEN TESTED TO FACILITATE CONTINUITY OF SERVICE TO PATIENT AREA(S) ABOVE.

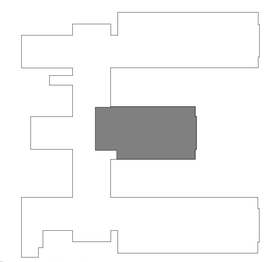
4 PIPING SYSTEM FIXTURES INSTALLED ON PREVIOUS PHASE TO REMAIN.



N PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER

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

F.F.E. = 696.00'



N KEYPLAN

Scale: N.T.S.

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Drawing Title: PARTIAL GROUND FLOOR PLAN - DOMESTIC WATER REMOVALS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-P5

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

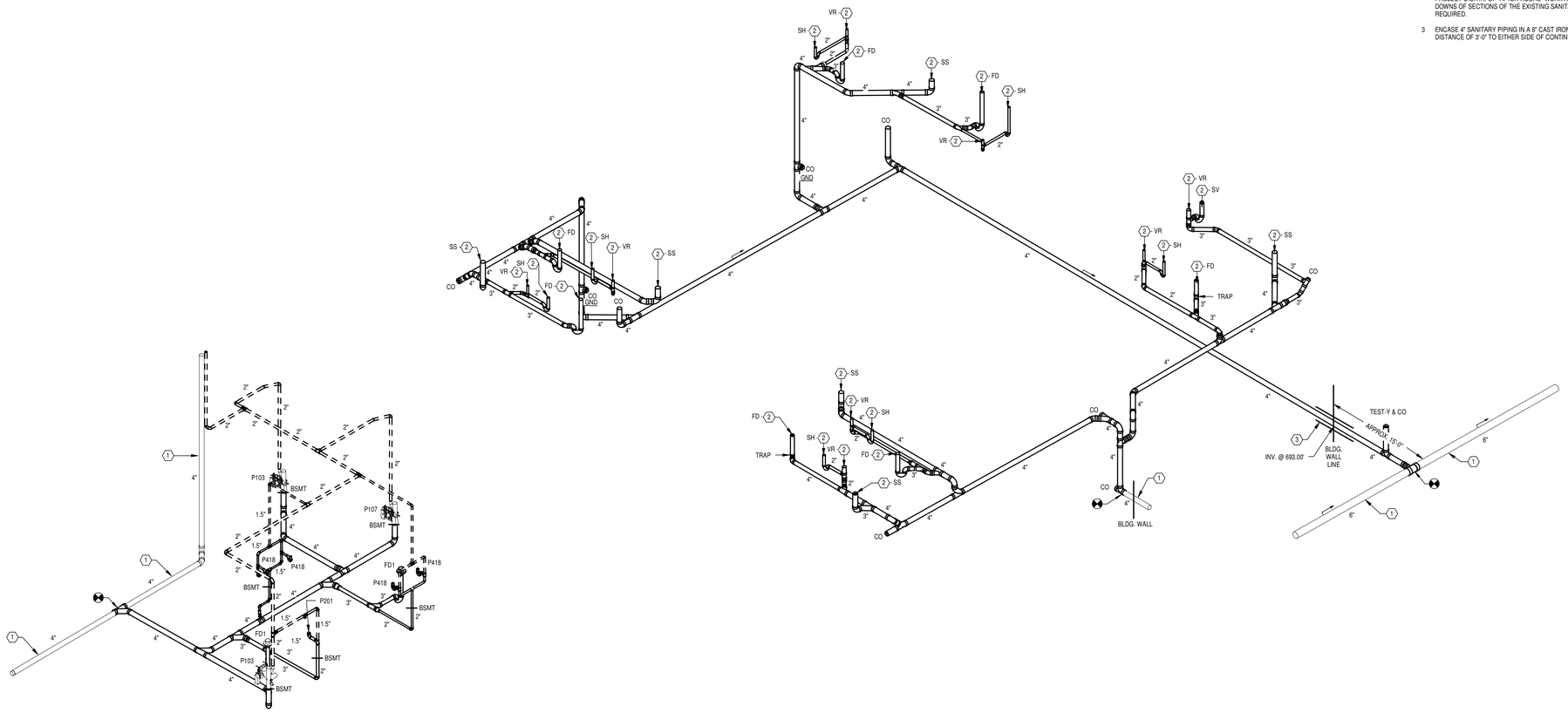
A REFER TO SHEET P1 - LEGEND, SCHEDULES, INDEX, DETAILS & NOTES.

NOTES

1 EXISTING TO REMAIN.

2 CONNECTION OF EXISTING SANITARY PIPING TO NEW PARALLEL SANITARY SYSTEM SHALL BE PERFORMED "AFTER HOURS" AND ONE SECTION AT A TIME. CLOSE COORDINATION WITH THE PROJECT C.O.T.R. OF "AFTER HOURS" WORK AND SYSTEM SHUT-DOWNS OF SECTIONS OF THE EXISTING SANITARY SYSTEM IS REQUIRED.

3 ENCASE 4" SANITARY PIPING IN A 8" CAST IRON SLEEVE TO A DISTANCE OF 3'-0" TO EITHER SIDE OF CONTINUOUS FOOTER.



SOIL, WASTE & VENT

Scale: NONE

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SOIL, WASTE AND VENT

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: RLT | Drawn: DPB

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-P6

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Office of Construction and Facilities Management

Department of Veterans Affairs

DRAWING SYMBOLS

2 / H4 — DETAIL NUMBER / DRAWING NUMBER WHERE DRAWN

A / H7 — SECTION LETTER / DRAWING NUMBER WHERE DRAWN

1-SF3 — BUILDING NO. WHERE EQUIPMENT IS LOCATED. / EQUIPMENT ABBREVIATION (SUPPLY FAN) / SUPPLY FAN NO.3 IN BUILDING NO.1

TYPICAL UNIT NO.

1-01 — TERMINAL UNIT DESIGNATION / AIR HANDLING UNIT NUMBER

DUCTWORK SYMBOLS

UP DN — SUPPLY DUCT (UP & DOWN)

UP DN — RETURN DUCT (UP & DOWN)

UP DN — EXHAUST DUCT (UP & DOWN)

CEILING DIFFUSERS (FOUR WAY BLOW UNLESS OTHERWISE NOTED)

EXHAUST OR RETURN CEILING REGISTER OR GRILLE

SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)

EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE, (WALL TYPE)

EXHAUST OR RETURN TOP REGISTER OR GRILLE, (WALL TYPE)

VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF

R — INCLINED RISE, IN DIRECTION OF AIR FLOW

D — INCLINED DROP, IN DIRECTION OF AIR FLOW

FC — FLEXIBLE CONNECTION

VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)

STANDARD RADIUS ELBOW

10/8 — NEW DUCT - WIDTH X DEPTH

STAINLESS STEEL DUCT

ACOUSTICAL DUCT LINING

MANUAL VOLUME DAMPER

FIRE DAMPER

BOD: 9'-6" — APPROXIMATE ELEVATION FROM FLOOR TO BOTTOM OF LISTED SIZE OF DUCT, DEVICE OR EQUIPMENT ITEM. (TO BE USED AS AN AID IN COORDINATING THE VARIOUS TRADES.)

U/C — DOOR UNDERCUT BY GENERAL CONTRACTOR

PIPING SYMBOLS

HEATING

HWS — HEATING HOT WATER SUPPLY

HWR — HEATING HOT WATER RETURN

GENERAL

FLOW METER

DIRECTION OF PIPE PITCH (DOWN)

DIRECTION OF FLOW

PIPE ANCHOR

PIPE GUIDE

REDUCER OR INCREASER

ECCENTRIC REDUCER

TOP CONNECTION, 45 DEG. OR 90 DEG.

BOTTOM CONNECTION, 45 DEG. OR 90 DEG.

SIDE CONNECTION

CAPPED OUTLET

RISE OR DROP IN PIPE

UNION

ORIFICE UNION

PIPE UP

PIPE DOWN

POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK.

INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES (SEE STANDARD DETAIL)

FLOAT AND THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES (SEE STANDARD DETAIL)

THERMOSTATIC TRAP

STRAINER

THERMOMETER

PRESSURE GAGE

EXISTING PIPE TO BE REMOVED

TEST PLUG (PRESSURE/TEMPERATURE)

ET — EXPANSION TANK PIPE

PIPE MOUNTED DDC TEMPERATURE SENSOR

VALVES

GATE VALVE

GLOBE VALVE

GATE VALVE WITH 3/4" HOSE END ADAPTER

CHECK VALVE

ANGLE GLOBE VALVE

BUTTERFLY VALVE

BALL VALVE

COMBINATION BALANCING/SHUT-OFF VALVE

CIRCUIT SETTER

STRAIGHT-THRU MODULATING CONTROL VALVE

STRAIGHT-THRU TWO-POSITION CONTROL VALVE

THREE-WAY MODULATING CONTROL VALVE

MANUAL AIR VENT

CONTROLS

T H — ROOM CONTROL: THERMOSTAT, HUMIDISTAT

T — REMOTE BULB THERMOSTAT

T — DUCT OR PIPE THERMOSTAT (NOTE 1: PROVIDE 12" MIN. LENGTH IN DUCT WHEN SPACE PERMITS)

T — DUCT THERMOSTAT WITH AVERAGING ELEMENT

T H — ROOM SENSOR: TEMPERATURE, HUMIDITY

T — DUCT OR PIPE TEMP. SENSOR

H — DUCT HUMIDITY SENSOR

SP — DUCT STATIC PRESSURE SENSOR

T — DUCT TEMPERATURE SENSOR WITH AVERAGING ELEMENT

F S — SMOKE DETECTOR (SEE ELECTRICAL SPECIFICATIONS)

H1 N — CONTROL CIRCUIT CONN.

dP — DIFFERENTIAL PRESSURE SWITCH

DP SP — DIFFERENTIAL OR STATIC PRESSURE TRANSMITTER

CS — CURRENT SENSING RELAY

ABBREVIATIONS

AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING DEVICE
AFW	AIR FOIL WHEEL (FAN)
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROLS
BG	BOTTOM GRILLE (WALL TYPE)
BHP	BRAKE HORSEPOWER
BIW	BACKWARD INCLINED WHEEL (FAN)
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CF	CENTRIFUGAL FAN
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CW	COLD WATER (POTABLE)
D	AUTOMATIC CONTROL DAMPER
Db	DRY BULB TEMPERATURE, DEG. F
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DO	DIGITAL OUTPUT
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX.	EXISTING
F	FAHRENHEIT
FC	FLEXIBLE CONNECTION
FCW	FOWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
F&T	FLOAT AND THERMOSTATIC

ABBREVIATIONS

FLR.	FLOOR
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
ICF	IN-LINE CENTRIFUGAL FAN
IN	INCHES
IN WC	INCHES WATER COLUMN
IN WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MV	MANUAL AIR VENT
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NOM	NOMINAL
O.A.	OUTSIDE AIR
OD	OUTSIDE DIAMETER
P	PUMP
PD	PRESSURE DROP (FEET OF WATER)
PEF	PROPELLER TYPE EXHAUST FAN
PF	PRE-FILTER
PH	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
R.A.	RETURN AIR
RF	RETURN FAN
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DETECTOR
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SF	SUPPLY FAN
S.P.	STATIC PRESSURE (INCHES OF WATER)
SP. GR.	SPECIFIC GRAVITY
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SWSI	SINGLE WIDTH SINGLE INLET (FAN)
TG	TOP GRILLE (WALL TYPE)
TG	TRANSFER GRILLE
TR	TOP REGISTER (WALL TYPE)
TSTAT	THERMOSTAT
TSP	TOTAL STATIC PRESSURE
U/C	DOOR UNDERCUT BY GENERAL CONTRACTOR
UH	UNIT HEATER
V	VALVE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
Wb	WET BULB TEMPERATURE, DEG. F
W.B.E.	WHITE BAKED ENAMEL
WF	WATER FILTER
WG	WATER GAUGE

GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN NON ACCESSIBLE SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
5. FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD DETAILS AND PIPING SCHEMATICS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. WHERE DUCTS OR PIPES ARE REMOVED THRU WALL/FLOOR/ROOF THAT IS TO REMAIN, PATCH WALL/FLOOR/ROOF OPENING TO MATCH EXISTING WHERE OPENING IS NOT RE-USED.
10. ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED.
11. ALL CUTTING AND PATCHING REQUIRED FOR THE HVAC WORK SHALL BE INCLUDED IN THE HVAC CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING.
12. IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.
13. ANNULAR SPACE OF ALL PIPE, CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 0-HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD PASSAGE OF FIRE & SMOKE.
14. UPON THE DISCOVERY OF ANY ASBESTOS MATERIAL, STOP WORK IMMEDIATELY AND REPORT IT TO THE COTR. THE COTR WILL NOTIFY CONTRACTOR WHEN WORK IS SAFE TO PROCEED.
15. ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE VA. ITEMS NOT DESIRED BY THE VA SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
16. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED.
18. FIELD VERIFY EXISTING CONDITIONS, INCLUDING DUCT, PIPE AND EQUIPMENT SIZES, SERVICES AND LOCATIONS PRIOR TO PERFORMING WORK.
19. HEPA FILTERED EXHAUST IS REQUIRED TO MAINTAIN A MINIMUM OF 0.01" W.G. NEGATIVE PRESSURE IN CONSTRUCTION AREAS. COORDINATE WITH GENERAL CONTRACTOR AND COTR.
20. ALL ABANDONED EXTRANEOUS PIPING, DUCTWORK, SUPPORTS, CONTROLS, ETC. SHALL BE REMOVED.
21. WHERE CONTROL DEVICES ARE REMOVED, PNEUMATIC LINES SHALL BE REMOVED BACK TO MAIN AND CAPPED, AND CONTROL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
22. ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINER, TRANSMITTERS, CONTROL DEVICES.
23. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. SHOWN DASHED SHALL BE REMOVED. THE MAJORITY OF WORK TO BE REMOVED IS SHOWN. REMOVE ALL INCIDENTAL ABANDONED DUCTWORK, PIPING, ETC., THAT MAY NOT BE SHOWN BUT IS ASSOCIATED WITH THE REMOVAL WORK.
24. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
25. REFER TO ARCHITECTURAL FIRE-RATED PARTITION PLAN ON SHEET A101 FOR LOCATIONS AND FIRE-RATINGS OF NEW AND EXISTING WALL ASSEMBLIES. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AND/OR FIRE-STOPPED AS REQUIRED TO MAINTAIN FIRE-RATINGS INDICATED. GC SHALL COORDINATE ALL TRADES TO ENSURE FIRE-RATED PENETRATION REQUIREMENTS AND DETAILS ARE MET.
26. WHERE EXISTING HVAC UTILITIES IN SERVICE WILL BE DISRUPTED DURING THE CONSTRUCTION OF THIS PROJECT, THIS WORK SHALL BE PERFORMED ON WEEKENDS OR WEEK NIGHTS, IF REQUIRED BY THE COTR. DOWNTIME SHALL BE KEPT TO A MINIMUM, AND SHALL BE COORDINATED AND SCHEDULED WELL IN ADVANCE WITH THE COTR.

INDEX OF DRAWINGS

Sheet Number	Sheet Name
H1	INDEX, LEGEND, AND GENERAL NOTES
H2	SCHEDULES AND CONTROLS
H3	DETAILS
H4	DETAILS
210-H1	GROUND FLOOR DUCTWORK PLAN AND PARTIAL ATTIC PLAN
210-H2	GROUND FLOOR PIPING - REMOVALS AND NEW WORK

FULLY SPRINKLERED

Revisions | Date

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Drawing Title: INDEX, LEGEND, AND GENERAL NOTES

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

Building Number: 210

Drawing Number: H1

Dwg. 22 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

CONTROLS GENERAL NOTES

1 A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROLS SHALL BE INSTALLED UNDER THIS CONTRACT AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF CONTROL FOR VARIOUS ITEMS OF EQUIPMENT AND SYSTEMS AS DESCRIBED HEREINAFTER. THE SYSTEM SHALL BE A DIRECT DIGITAL CONTROL SYSTEM UTILIZING ELECTRIC ACTUATION.

2 ELECTRICAL WORK INCLUDES A POWER SOURCE TO THE MOTOR STARTERS. ALL HVAC POWER SOURCES REQUIRED BEYOND THESE STARTERS OR BEYOND SOURCES EXPLICITLY SHOWN ON THE ELECTRICAL DRAWINGS, SHALL BE PROVIDED UNDER THE ATC WORK. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO WIRING, CONDUIT, TRANSFORMERS, RELAYS AND FUSES.

3 BULB WELLS FOR TEMPERATURE SENSING AS INDICATED SHALL BE FURNISHED UNDER THE ATC WORK AND INSTALLED AS PART OF THE HVAC PIPING WORK. PIPING WORK SHALL INCLUDE PROPERLY SIZED WELDOLET OR THREADOLET FITTINGS PLACED AS DIRECTED BY THE CONTROL SYSTEM SUPPLIER.

4 ALL INPUT AND OUTPUT POINTS, AND THEIR REQUIRED INTERFACE AND ACCESSORY HARDWARE, SHALL BE PROVIDED FOR A COMPLETE AND FUNCTIONAL CONTROL SYSTEM. IF OR WHEN ADDITIONAL POINTS ARE REQUIRED TO ACCOMPLISH THE SEQUENCES OF CONTROL SPECIFIED, THESE POINTS, ALONG WITH ADDITIONAL DIRECT DIGITAL CONTROL PANEL(S) (IF REQUIRED), SHALL ALSO BE PROVIDED.

CVR & VVR CONTROL SEQUENCES WITH OCCUPANCY SENSING

1 CONSTANT VOLUME REHEAT TERMINAL CONTROL

1.1 DURING THE OCCUPIED MODE OF OPERATION, WHEN ROOM TEMPERATURE AT T1 IS BELOW SETPOINT, HOT WATER VALVE V1 SHALL MODULATE OPEN TO COIL TO MAINTAIN TEMPERATURE SETPOINT. BOX DAMPER D1 SHALL REMAIN AT CONSTANT MAXIMUM CFM.

1.2 EACH TERMINAL UNIT SHALL INCLUDE AN AIRFLOW SENSOR FOR CALCULATING CFM, AND A DISCHARGE AIR TEMPERATURE SENSOR.

1.3 EXTEND 24 VOLT POWER TO THE TERMINAL BOX CONTROLLER FROM THE ASSOCIATED AIR HANDLING UNIT DDC CONTROL PANEL.

1.4 ROOM SPACE TEMPERATURE SET POINT SHALL BE ADJUSTABLE FROM THE FRONT END COMPUTER INTERFACE.

1.5 OCCUPANCY SENSOR OS1 PROVIDED UNDER DIV. 26 SHALL DETERMINE OCCUPIED/UNOCCUPIED MODES OF OPERATION. TO INVOKE UNOCCUPIED SEQUENCE (1.7 BELOW), OCCUPANCY SENSORS FOR ALL SPACES ON A GIVEN TERMINAL UNIT ZONE MUST SATISFY THIS CONDITION. EXTEND LOW VOLTAGE WIRING FROM ALL APPLICABLE OCCUPANCY SENSOR(S) TO THE TERMINAL UNIT CONTROLLER.

1.6 DURING THE UNOCCUPIED MODE OF OPERATION, THE CONTROL DAMPER ACTUATOR D1 SHALL POSITION TO THE UNOCCUPIED AIRFLOW SETTING (REFER TO AIR TERMINAL UNIT SCHEDULE ON THIS SHEET).

1.7 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS BELOW THE UNOCCUPIED HEATING SETPOINT (REFER TO HVAC DESIGN DATA SCHEDULE ON THIS SHEET), THE CONTROL SHALL INDEX TO THE OCCUPIED HEATING MODE OF OPERATION. THE CONTROL SHALL REVERT TO UNOCCUPIED OPERATION (SEE 1.6 ABOVE) WHEN ROOM TEMPERATURE T1 RISES 2 DEGREES (ADJUSTABLE) ABOVE THE UNOCCUPIED HEATING SETPOINT.

1.8 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS ABOVE THE UNOCCUPIED COOLING SETPOINT (REFER TO HVAC DESIGN DATA SCHEDULE ON THIS SHEET), THE CONTROL SHALL INDEX TO THE OCCUPIED COOLING MODE OF OPERATION. THE CONTROL SHALL REVERT TO UNOCCUPIED OPERATION (SEE 1.6 ABOVE) WHEN ROOM TEMPERATURE T1 REDUCES 2 DEGREES (ADJUSTABLE) BELOW THE UNOCCUPIED COOLING SETPOINT.

2 VARIABLE VOLUME REHEAT TERMINAL CONTROL

2.1 DURING THE OCCUPIED MODE OF OPERATION, WHEN ROOM TEMPERATURE AT T1 IS BELOW SETPOINT, THE CONTROL DAMPER ACTUATOR, D1 SHALL MODULATE THE DAMPER TO REDUCE AIRFLOW TO THE SUMMER MINIMUM SETTING. ON A FURTHER DROP IN ROOM TEMPERATURE AT T1, THE CONTROL DAMPER SHALL BE MODULATED UPWARD TO THE WINTER MINIMUM AIRFLOW AND THE HOT WATER VALVE V1 SHALL MODULATE OPEN TO COIL TO MAINTAIN TEMPERATURE SETPOINT.

2.2 DURING THE OCCUPIED MODE OF OPERATION, AS ROOM TEMPERATURE RISES ABOVE SETPOINT, HOT WATER VALVE V1 SHALL CLOSE. IF THE ROOM TEMPERATURE CONTINUES TO RISE ABOVE SETPOINT, DAMPER D1 SHALL MODULATE FROM SUMMER (COOLING) MINIMUM AIRFLOW TO MAXIMUM AIRFLOW TO MAINTAIN ROOM TEMPERATURE.

2.3 EACH TERMINAL UNIT SHALL INCLUDE AN AIRFLOW SENSOR FOR CALCULATING CFM, AND A DISCHARGE AIR TEMPERATURE SENSOR

2.4 EXTEND 24 VOLT POWER TO THE TERMINAL BOX CONTROLLER FROM THE ASSOCIATED AIR HANDLING UNIT DDC CONTROL PANEL.

2.5 ROOM SPACE TEMPERATURE SET POINT SHALL BE ADJUSTABLE FROM THE FRONT END COMPUTER INTERFACE.

2.6 OCCUPANCY SENSOR OS1 PROVIDED UNDER DIV. 26 SHALL DETERMINE OCCUPIED/UNOCCUPIED MODES OF OPERATION. TO INVOKE UNOCCUPIED SEQUENCE (2.7 BELOW), OCCUPANCY SENSORS FOR ALL SPACES ON A GIVEN TERMINAL UNIT ZONE MUST SATISFY THIS CONDITION. EXTEND LOW VOLTAGE WIRING FROM ALL APPLICABLE OCCUPANCY SENSOR(S) TO THE TERMINAL BOX CONTROLLER.

2.7 DURING THE UNOCCUPIED MODE OF OPERATION, THE CONTROL DAMPER ACTUATOR D1 SHALL POSITION TO THE UNOCCUPIED AIRFLOW SETTING (REFER TO AIR TERMINAL UNIT SCHEDULE ON THIS SHEET).

2.8 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS BELOW THE UNOCCUPIED HEATING SETPOINT (REFER TO HVAC DESIGN DATA SCHEDULE ON THIS SHEET), THE CONTROL SHALL INDEX TO THE OCCUPIED HEATING MODE OF OPERATION. THE CONTROL SHALL REVERT TO UNOCCUPIED OPERATION (SEE 2.6 ABOVE) WHEN ROOM TEMPERATURE T1 RISES 2 DEGREES (ADJUSTABLE) ABOVE THE UNOCCUPIED HEATING SETPOINT.

2.9 DURING THE UNOCCUPIED MODE OF OPERATION, WHEN THE ROOM TEMPERATURE AT T1 IS ABOVE THE UNOCCUPIED COOLING SETPOINT (REFER TO HVAC DESIGN DATA SCHEDULE ON THIS SHEET), THE CONTROL SHALL INDEX TO THE OCCUPIED COOLING MODE OF OPERATION. THE CONTROL SHALL REVERT TO UNOCCUPIED OPERATION (SEE 2.6 ABOVE) WHEN ROOM TEMPERATURE T1 REDUCES 2 DEGREES (ADJUSTABLE) BELOW THE UNOCCUPIED COOLING SETPOINT.

CVR & VVR CONTROL SEQUENCES WITHOUT OCCUPANCY SENSING

1 CONSTANT VOLUME REHEAT TERMINAL CONTROL

1.1 WHEN ROOM TEMPERATURE AT T-1 IS BELOW SETPOINT, HOT WATER VALVE V-1 SHALL MODULATE OPEN TO COIL TO MAINTAIN TEMPERATURE SETPOINT. BOX DAMPER D-1 SHALL REMAIN AT CONSTANT MAXIMUM CFM.

1.2 EACH TERMINAL UNIT SHALL INCLUDE AN AIRFLOW SENSOR FOR CALCULATING CFM, AND A DISCHARGE AIR TEMPERATURE SENSOR.

1.3 EXTEND 24 VOLT POWER TO THE TERMINAL BOX CONTROLLER FROM THE ASSOCIATED AIR HANDLING UNIT DDC CONTROL PANEL.

1.4 ROOM SPACE TEMPERATURE SET POINT SHALL BE ADJUSTABLE FROM THE FRONT END COMPUTER INTERFACE.

1.5 COORDINATE AND ADJUST OCCUPANCY SCHEDULES AND TEMPERATURE RANGE WITH COTR.

2 VARIABLE VOLUME REHEAT TERMINAL CONTROL

2.1 WHEN ROOM TEMPERATURE AT T-1 IS BELOW SETPOINT, THE CONTROL DAMPER ACTUATOR D-1 SHALL MODULATE THE DAMPER TO REDUCE AIRFLOW TO THE SUMMER MINIMUM SETTING. ON A FURTHER DROP IN ROOM TEMPERATURE AT T-1, THE CONTROL DAMPER SHALL BE MODULATED UPWARD TO THE WINTER MINIMUM AIRFLOW AND THE HOT WATER VALVE V-1 SHALL MODULATE OPEN TO COIL TO MAINTAIN TEMPERATURE SETPOINT.

2.2 AS ROOM TEMPERATURE RISES ABOVE SETPOINT, HOT WATER VALVE V-1 SHALL CLOSE. IF THE ROOM TEMPERATURE CONTINUES TO RISE ABOVE SETPOINT, DAMPER D-1 SHALL MODULATE FROM SUMMER (COOLING) MINIMUM AIRFLOW TO MAXIMUM AIRFLOW TO MAINTAIN ROOM TEMPERATURE.

2.3 EACH TERMINAL UNIT SHALL INCLUDE AN AIRFLOW SENSOR FOR CALCULATING CFM, AND A DISCHARGE AIR TEMPERATURE SENSOR.

2.4 EXTEND 24 VOLT POWER TO THE TERMINAL BOX CONTROLLER FROM THE ASSOCIATED AIR HANDLING UNIT DDC CONTROL PANEL.

2.5 ROOM SPACE TEMPERATURE SET POINT SHALL BE ADJUSTABLE FROM THE FRONT END COMPUTER INTERFACE.

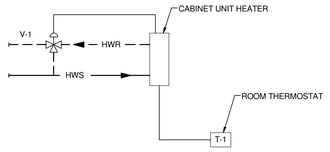
2.6 COORDINATE AND ADJUST OCCUPANCY SCHEDULES AND TEMPERATURE RANGE WITH COTR.

AIR DISTRIBUTION DEVICES

SYMBOL	DESCRIPTION	TYPE MOUNTING		MATERIAL		FINISH		ACCESSORIES	SEE NOTE
		LAY-IN	SURFACE	STEEL	ALUM.	E.C.L.	W.B.E.		
CD1	STANDARD SQ. PLAQUE CEILING DIFFUSER ROUND NECK	◦		◦			◦		
CG1	EGGCRATE CEILING GRILLE	◦			◦		◦		
CR1	EGGCRATE CEILING REGISTER	◦			◦		◦	OPPOSED BLADE DAMPER	
CR2	EGGCRATE CEILING REGISTER		◦		◦		◦	OPPOSED BLADE DAMPER	
TR1	ADJUSTABLE BLADE SUPPLY REGISTER		◦	◦			◦	OPPOSED BLADE DAMPER	

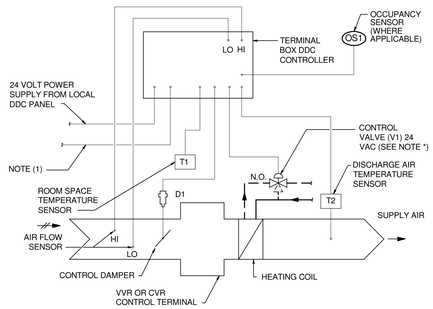
NOTES:

1 DOUBLE DEFLECTION TYPE, HORIZONTAL FRONT BLADES.



CABINET UNIT HEATER CONTROL

LINE VOLTAGE ROOM THERMOSTAT T-1 SHALL CONTROL FAN MOTOR AND VALVE V-1. ON A DROP IN TEMPERATURE BELOW SETPOINT, THERMOSTAT T-1 SHALL START THE FAN AND 2-POSITION 3-WAY HEATING COIL CONTROL VALVE V-1 SHALL OPEN TO THE COIL AND CLOSE TO THE BYPASS LEG, TO MAINTAIN ROOM TEMPERATURE SETPOINT. REFER TO SPECIFICATION SECTION 23 82 00 FOR MORE INFORMATION ON CONTROL DEVICES REQUIRED.



* REFER TO AIR TERMINAL UNIT SCHEDULE ON THIS SHEET FOR VALVE TYPE (2-WAY OR 3-WAY)

CVR AND VVR TERMINAL CONTROLS

NOTE 1: INTERCEPT EXISTING VAV LON BUS SERVING EXISTING BASEMENT VAV BOXES AND EXTEND TO INCLUDE BOXES ADDED UNDER THIS PROJECT. INTEGRATE NEW BOXES INTO EXISTING TRIDIUM NIAGARA AX FRONT END (PANEL LOCATED IN PIPE BASEMENT TANK ROOM), INCLUDING GRAPHICS, ETC.

HOT WATER UNIT HEATER SHEDULE

UNIT NO.	LOCATION	TYPE UNIT	CFM	MIN. MBH	ENT. TEMP. °F		GPM	MAX. LOSS THRU COIL FT. WATER	RUNOUT SIZE	AUTO VALVE TYPE	AUTO VALVE CV	APPROX. CABINET DIMS.			MOTOR HP (W)	VOLT.-PHASE	NOTES
					AIR	WATER						HEIGHT	WIDTH	DEPTH			
210-CUH2	STAIRWELL	FLOOR SET VERTICAL CABINET	330	22.5	70	180	1.5	3	0.75"	3-WAY	0.7	28"	38"	10"	(95)	115-1	1,2,3

NOTES:

1 VERIFY/COORDINATE CABINET DIMENSIONS, MOUNTING & RECESS REQUIREMENTS PRIOR TO ORDERING.

2 UNIT SHALL HAVE SLOPING TOP, BOTTOM INLET, AND STAMPED TOP OUTLET GRILLES.

3 REFER TO PIPING DETAILS ON SHEET H4 FOR PIPING COMPONENTS.

AIR TERMINAL UNIT SCHEDULE

UNIT NO.	CFM				APPROX. INLET SIZE (IN.)	DUCT RUNOUT SIZE TO UNIT (IN.) (1)	UNIT MAX. SP. AT MAX. CFM (2)	SOUND REQUIREMENTS		HOT WATER HEATING COIL								CONTROL TYPE (6)
	MAX.	WINTER MIN.	SUMMER MIN.	UNOCCUPIED (7)				SP ACROSS UNIT AT MAXIMUM ROOM NC	MAX. ROOM NC (3) (4)	ENT. AIR TEMP. F°	ENT. WATER TEMP. F°	GPM	MAX. WATER P.D. FT. HD.	PIPE RUNOUT SIZE TO COIL	AUTO VALVE Cv	AUTO VALVE TYPE	MIN. MBH (5)	
2-01	510	510	510	-	7	9	0.35"	3.0"	35	55	180	0.9	2	0.75"	0.4	2-WAY	13	C.V.R
2-02	90	70	65	15	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	3	V.V.R
2-03	250	175	90	40	6	8	0.35"	3.0"	35	55	180	0.6	2	0.75"	0.3	2-WAY	8	V.V.R
2-04	90	75	65	15	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	3	V.V.R
2-05	235	120	70	40	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	5	V.V.R
2-06	255	145	110	40	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	6	V.V.R
2-07	180	135	120	30	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	3	V.V.R
2-08	100	80	70	15	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	3	V.V.R
2-09	220	125	70	35	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	5	V.V.R
2-10	305	175	150	50	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	7	V.V.R
2-11	105	80	70	20	6	8	0.35"	3.0"	35	55	180	0.5	2	0.75"	0.2	2-WAY	3	V.V.R
2-12	300	180	130	45	6	8	0.35"	3.0"	35	55	180	0.6	2	0.75"	0.3	2-WAY	8	V.V.R
2-13	465	340	295	70	7	9	0.35"	3.0"	35	55	180	0.7	2	0.75"	0.3	2-WAY	10	V.V.R
2-14	425	255	220	-	7	9	0.35"	3.0"	35	55	180	0.7	2	0.75"	0.3	2-WAY	10	C.V.R

NOTES :
1 PROVIDE DUCT TRANSITION AT UNIT INLET WHERE UNIT INLET SIZE AND DUCT RUNOUT SIZE ARE DIFFERENT.
2 THE UNIT MAXIMUM SP IS THE PRESSURE DIFFERENCE BETWEEN THE UNIT INLET AND DISCHARGE INCLUDING REHEAT COIL AND SOUND ATTENUATOR. IT IS ALSO THE MINIMUM PRESSURE REQUIRED AT THE UNIT INLET TO OBTAIN THE RATED CFM.
3 PROVIDE HOSPITAL GRADE SOUND ATTENUATOR WHERE REQUIRED TO CONFORM TO THE MAXIMUM NC35 REQUIREMENT.
4 UNIT NOISE LEVEL SELECTION SHALL NOT EXCEED A ROOM NC OF 35 FROM BOTH AIRBORNE AND RADIATED NOISE, BASED ON A 10 DB ROOM ABSORPTION COFFICIENT (REFERENCE 10 [-12] WATTS) WITH 3" S.P. DIFFERENTIAL ACROSS UNIT AT MAXIMUM CFM SETTING.
5 HEATING COIL CAPACITY BASED ON WINTER MINIMUM CFM.
6 CONTROL TYPES: V.V.R.: VARIABLE VOLUME REHEAT TERMINAL; C.V.R.: CONSTANT VOLUME REHEAT TERMINAL
7 AIR TERMINAL UNIT WITH AIRFLOW LISTED IN THIS COLUMN IS CONNECTED TO AN OCCUPANCY SENSOR PROVIDED BY DIVISION 26, FOR UNOCCUPIED CONTROL MODE. REFER TO CONTROL SEQUENCES ON THIS SHEET, AND UNOCCUPIED HEATING & COOLING SETPOINTS IN "HVAC DESIGN DATA" SCHEDULE ON THIS SHEET.

DUCT PRESSURE CLASS & LEAKAGE TABLE

SYSTEM	DUCT INVOLVED	POSITIVE (P) OR NEGATIVE (N) PRESSURE	SMACNA CONST. CLASS W.G.	SMACNA SEAL CLASS	SMACNA LEAKAGE CLASS	
					RECTANGULAR DUCT	ROUND DUCT
ALL SYSTEMS	ALL DUCTWORK EXCEPT AS LISTED BELOW.	P/N	± 2"	A	6	3
	SUPPLY AIR DUCTS FROM OUTLET OF AH-UNIT TO INLET OF AIR TERMINAL UNITS.	P	4"	A	6	3
	SUPPLY AIR DUCTS FROM OUTLET OF AIR TERMINAL UNITS TO SUPPLY AIR DEVICES	P	1"	A	6	3
	RETURN AIR DUCTS FROM CEILING REGISTERS TO INLET OF AH-UNIT	N	-2"	A	6	3
	GENERAL EXHAUST DUCTS	N	-2"	A	6	3

HVAC DESIGN DATA

OUTDOOR DESIGN TEMPERATURES — 95 DEG. F Db SUMMER; 78 DEG. F Wb SUMMER; 0 DEG. F Db WINTER — DESIGN ALTITUDE: 638 FT.

INDOOR AREA DESIGN CONDITIONS	SUMMER		WINTER	
	Db (°F)	% HUMIDITY	Db (°F)	% HUMIDITY
BATHROOMS & TOILET ROOMS	-	-	68	20
OFFICES	75	60	70	20
COPY/PRINTING ROOM	75	-	70	-
CORRIDORS	75	60	70	20
ALL OTHER AREAS	75	60	70	20
UNOCCUPIED MODE (1)	80	50	60	

NOTES:

1 REFERS TO OCCUPANCY STATUS FOR CONTROL OF AIR TERMINAL UNITS. REFER TO AIR TERMINAL UNIT SCHEDULE AND CONTROL SEQUENCES ON THIS SHEET

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SCHEDULES AND CONTROLS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

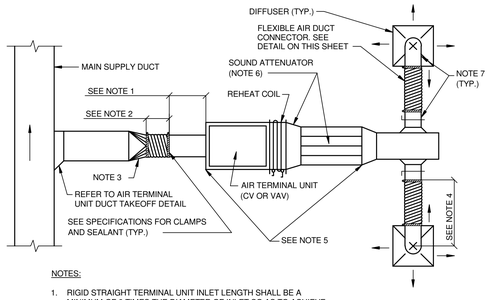
Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: H2

Dwg. 23 of 39

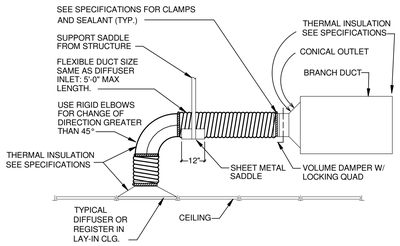
Office of Construction and Facilities Management
Department of Veterans Affairs



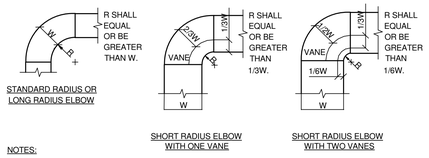
NOTES:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET SO AS TO ACHIEVE ACCURATE AIRFLOW SENSOR READINGS.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
3. PROVIDE DUCT TRANSITION WHERE SCHEDULED DUCT RUNOUT SIZE TO UNIT IS DIFFERENT THAN TERMINAL UNIT INLET SIZE.
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. PROVIDE SOUND ATTENUATOR IF REQUIRED TO MEET DESIGN ROOM NC. PROVIDE DUCT TRANSITION BETWEEN TERMINAL UNIT AND SOUND ATTENUATOR WHERE ATTENUATOR SIZE DIFFERS FROM TERMINAL UNIT OUTLET SIZE.
7. DUCT RUNOUT TO DIFFUSERS SHALL BE SAME SIZE AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.

DUCT CONNECTIONS-AIR TERMINAL UNITS



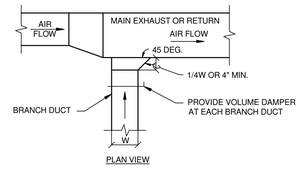
FLEXIBLE AIR DUCT CONNECTOR



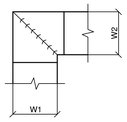
NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS 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.

DUCTWORK RADIUS ELBOWS



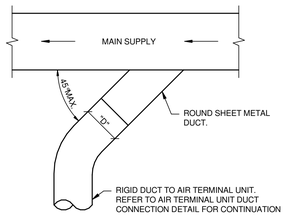
EXHAUST OR RETURN BRANCH DUCTWORK



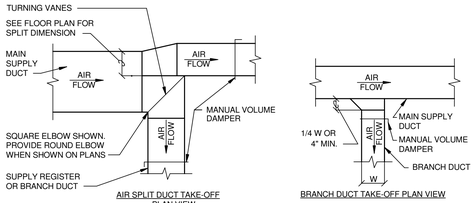
NOTES:

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 W1 EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.

DUCTWORK SQUARE VANE ELBOWS

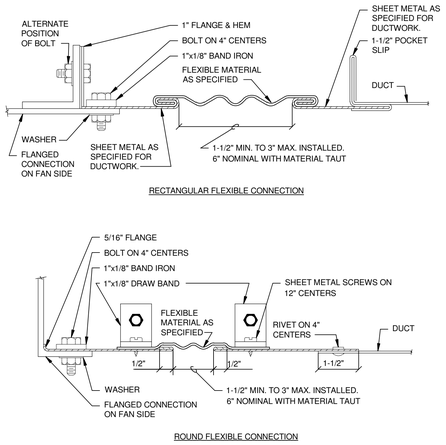


SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

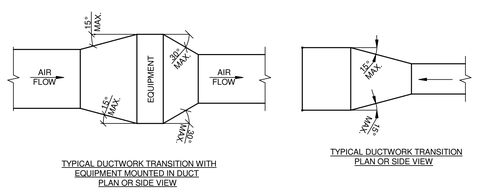


THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME, AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES

SUPPLY DUCTWORK TAKE-OFFS

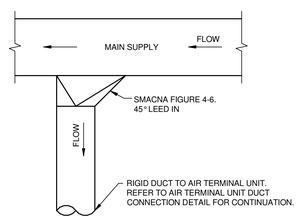


FLEXIBLE DUCT CONNECTIONS

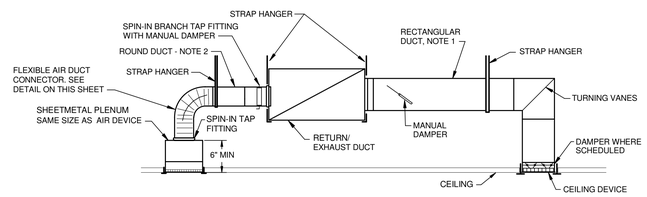


NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS



ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS



NOTES:

1 BRANCH DUCT TAKE-OFF WITH MANUAL DAMPER.

2 BRANCH DUCT SIZES, UNLESS NOTED ON PLANS ARE TO BE SIZED AS FOLLOWS:
100 CFM AND LESS - 6" DIA.
101 CFM TO 250 CFM - 8" DIA.
251 CFM TO 400 CFM - 10" DIA.
401 CFM TO 700 CFM - 12" DIA.

RETURN OR EXHAUST GRILLE/REGISTER CONNECTION

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

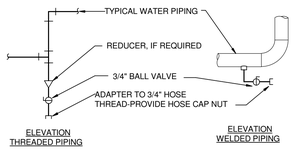
Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: H3

Dwg. 24 of 39

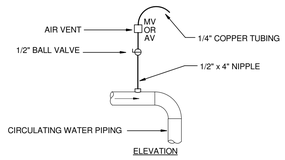
Office of Construction and Facilities Management
Department of Veterans Affairs



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.

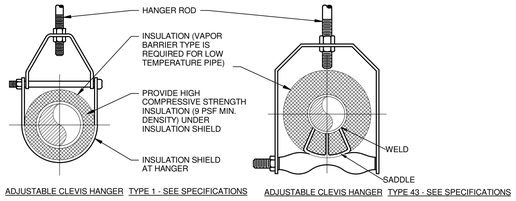
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS, LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

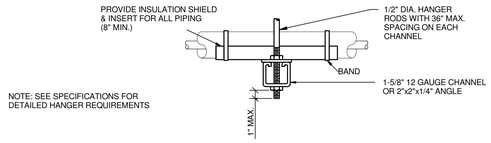


TYPICAL MANUAL AIR VENT

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

DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)

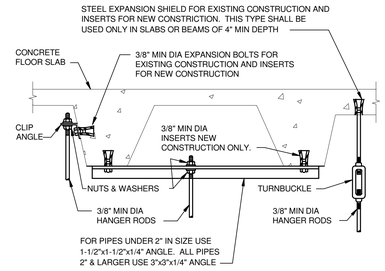




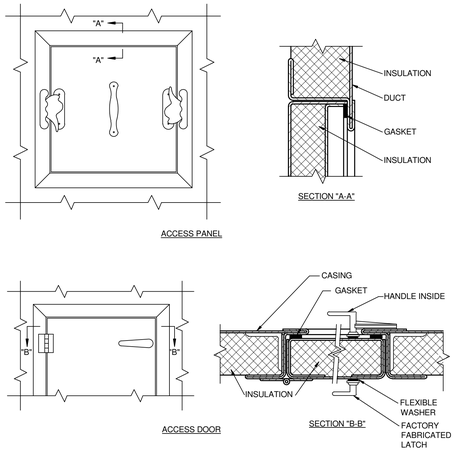
SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

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.																			

PIPE HANGERS



SECURING HANGER RODS IN CONCRETE



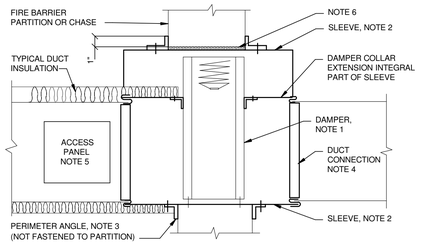
NOTES:

1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.

2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.

3. SEE SMACNA 2005, FIGURE 9-15

ACCESS PANEL AND DOOR DETAIL



NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.

2. GALVANIZED SLEEVE: GAGE 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"x1-1/2" , 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.

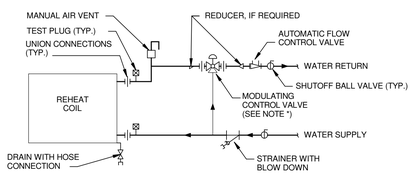
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA.

5. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.

6. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. IN ORDER TO MAINTAIN U.L. RATING FOR FIRE DAMPER, DO NOT FILL THIS OPEN SPACE WITH FIRESTOP MATERIAL.

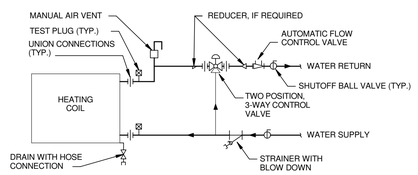
7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

SECTION THRU FIRE DAMPER INSTALLATION

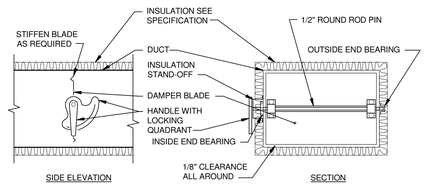


* REFER TO AIR TERMINAL UNIT SCHEDULE ON SHEET H2 FOR VALVE TYPE (2-WAY OR 3-WAY)

AIR TERMINAL UNIT - PIPING CONNECTIONS



CABINET UNIT HEATER - PIPING CONNECTIONS



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.

VOLUME DAMPER DETAIL

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: H4

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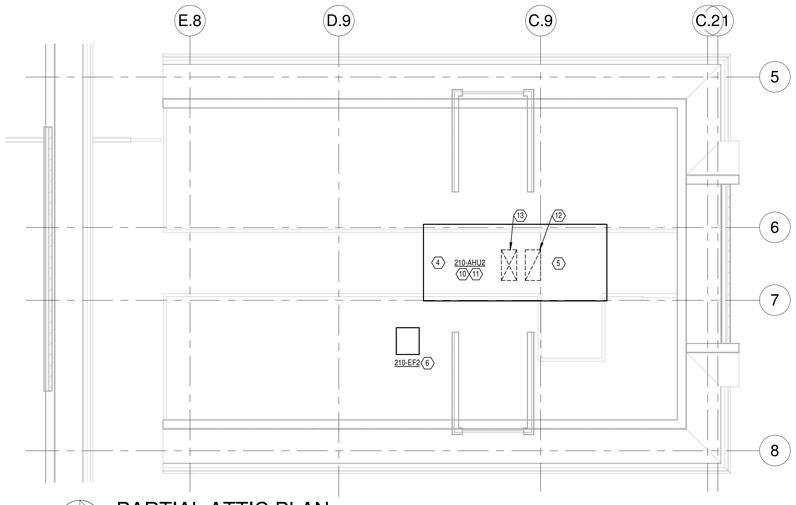
Office of Construction and Facilities Management
Department of Veterans Affairs



PARTIAL ATTIC PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET H1 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.

B REFER TO GROUND FLOOR PIPING PLAN ON SHEET 210-H2 FOR PIPING CONNECTIONS TO MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

C APPROXIMATE ELEVATIONS NOTED ARE TO THE CENTER OF THE DUCT.

D REFER TO GROUND FLOOR PIPING PLAN ON SHEET 210-H2 FOR LOCATION OF THERMOSTATS.

NOTES

1 INSTALL DUCT AS HIGH AS POSSIBLE, NEXT TO UNDERSIDE OF BEAMS/JOISTS. COORDINATE WITH WORK FOR OTHER TRADES.

2 EXISTING FIRE DAMPER TO REMAIN.

3 REMOVE EXISTING FIRE DAMPERS AND REPLACE WITH A SINGLE FIRE DAMPER FULL SIZE OF DUCT (APPROXIMATELY 30" x 18").

4 EXISTING SUPPLY FAN 210-SF2 INSIDE EXISTING AIR HANDLING UNIT 210-AHU2 TO REMAIN. REPLACE SHEAVES AS REQUIRED AND REBALANCE SUPPLY FAN TO 20,600 CFM.

5 EXISTING RETURN FAN 210-RF2 INSIDE EXISTING AIR HANDLING UNIT 210-AHU2 TO REMAIN. REPLACE SHEAVES AS REQUIRED AND REBALANCE RETURN FAN TO 17,445 CFM.

6 EXISTING INLINE EXHAUST FAN 210-EF2 TO REMAIN. REPLACE SHEAVES AS REQUIRED AND REBALANCE EXHAUST FAN TO 3,155 CFM.

7 CONNECT TO EXISTING DUCT STUB.

8 ROUTE DUCT BETWEEN STRUCTURAL BEAMS IN JOIST SPACE.

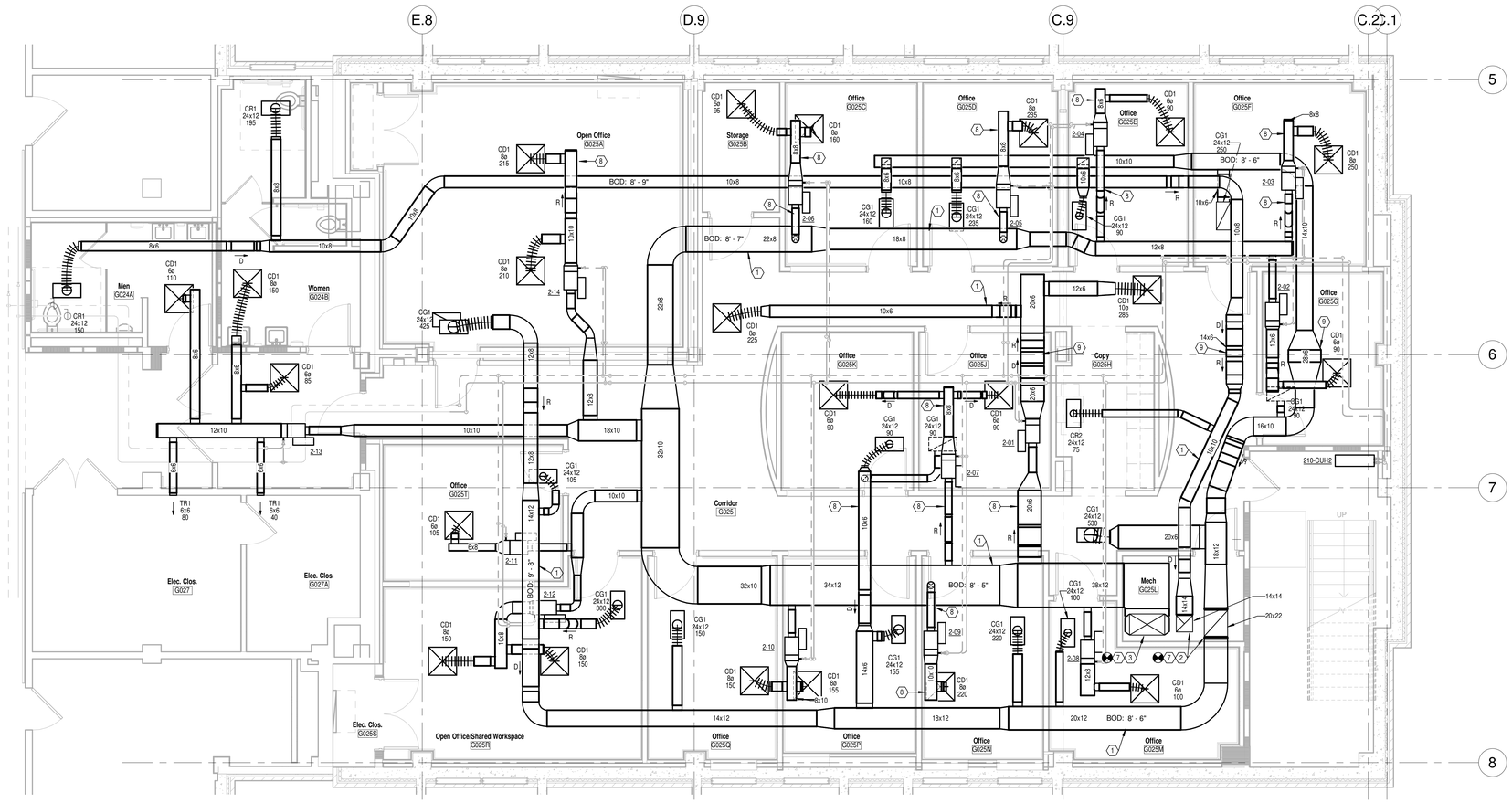
9 TRANSITION/OFFSET DUCT AS REQUIRED FOR BEAM.

10 EXISTING VARIABLE AIR VOLUME AIR HANDLING UNIT WITH ECONOMIZER TO REMAIN.

11 EXISTING UNIT HAS ONE DUCT SMOKE DETECTOR, WITH ADDRESSABLE RELAY FROM FIRE ALARM CONTROL PANEL, HARD WIRED INTO UNIT SUPPLY AND RETURN FAN VFD SAFETY SHUTDOWN CIRCUITS. APPROXIMATELY 11 ADDITIONAL DUCT SMOKE DETECTORS ARE BEING ADDED TO 210-AHU2 RETURN DUCT SYSTEM UNDER THIS PROJECT. COORDINATE WITH ELECTRICAL/FIRE ALARM CONTRACTOR TO ENSURE THESE ADDITIONAL DUCT SMOKE DETECTORS ARE PROGRAMMED TO SHUT DOWN 210-AHU2 THROUGH EXISTING ADDRESSABLE RELAY.

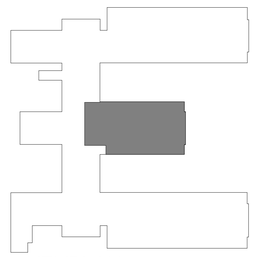
12 EXISTING AHU RELIEF AIR OUTLET.

13 EXISTING AHU OUTSIDE AIR INTAKE DAMPERS. TAKE AIRFLOW READINGS OF DAMPER POSITIONS CORRESPONDING TO SUPPLY FAN SPEEDS, AND REBALANCE MINIMUM OUTSIDE AIR VOLUME TO 4,950 CFM.



GROUND FLOOR DUCTWORK - NEW WORK

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



KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

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Revisions	Date

Drawing Title: GROUND FLOOR DUCTWORK PLAN AND PARTIAL ATTIC PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

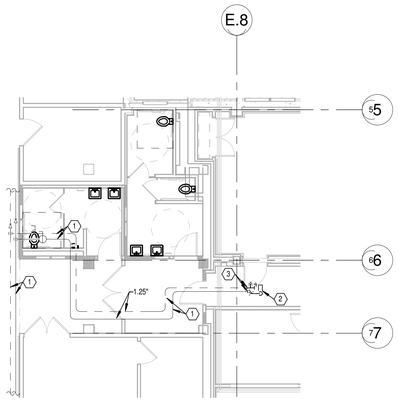
Building Number: 210

Drawing Number: 210-H1

Dwg. 26 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs



N GROUND FLOOR - REMOVALS
Scale: 1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET H1 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.

B UTILIZE EXISTING WATER TREATMENT EQUIPMENT AND WATER TREATMENT SYSTEM PIPING, TO INTRODUCE ADDITIONAL TREATMENT CHEMICALS INTO THE HEATING HOT WATER LOOP AS REQUIRED BY SECTION 23 25 00 HVAC WATER TREATMENT, DUE TO SYSTEM VOLUME ADDED UNDER THIS PROJECT.

NOTES

1 EXISTING PIPING TO REMAIN.

2 REMOVE EXISTING PROPELLER UNIT HEATER AND TURN OVER TO COTR.

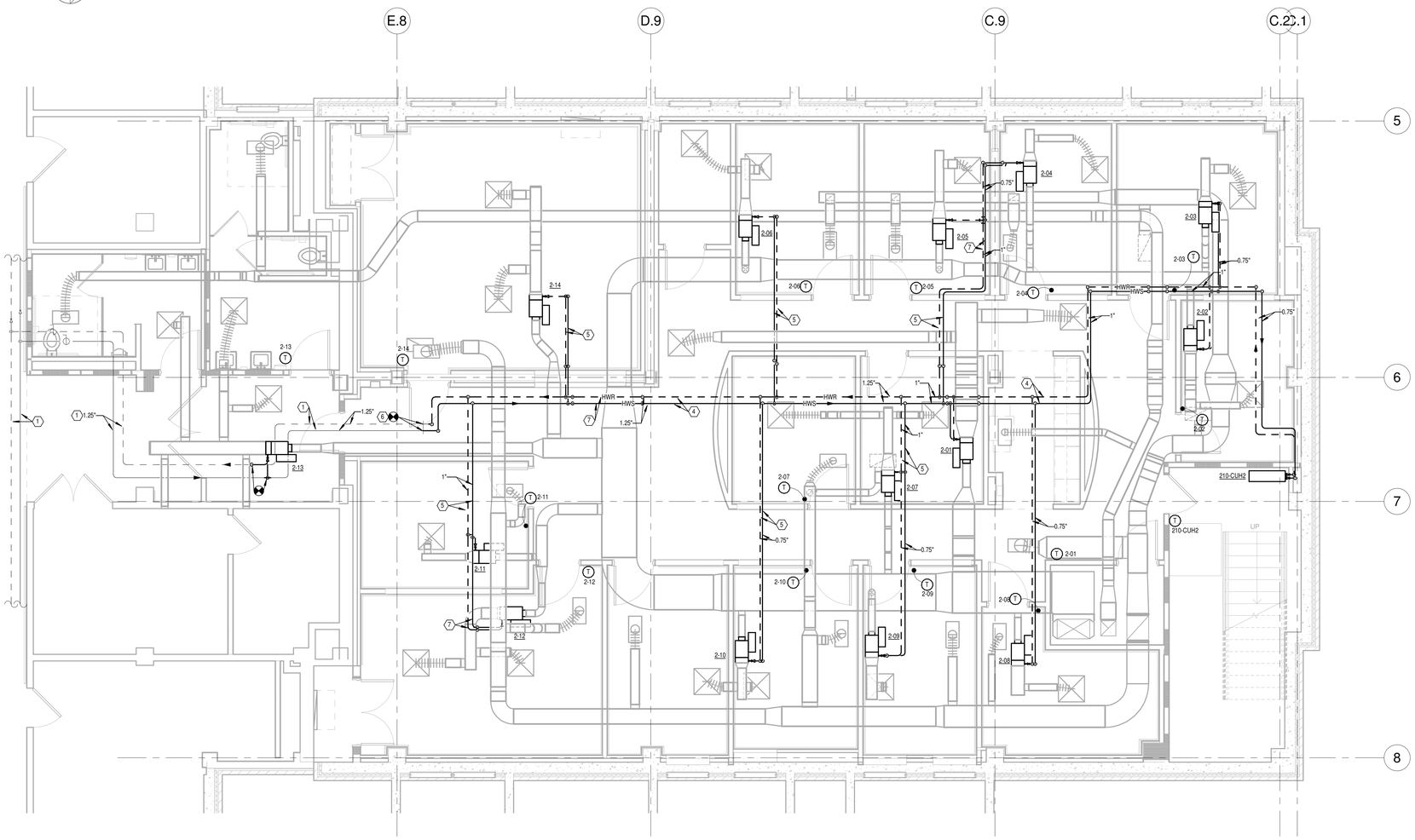
3 REMOVE PIPING BACK TO THIS LOCATION FOR RECONNECTION IN NEW WORK.

4 INSTALL PIPING AS HIGH AS POSSIBLE, NEXT TO UNDERSIDE OF BEAMS/JOISTS. COORDINATE WITH WORK FOR OTHER TRADES.

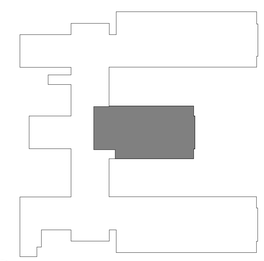
5 ROUTE PIPING BETWEEN STRUCTURAL BEAMS IN JOIST SPACE.

6 CONNECT NEW HOT WATER SUPPLY AND RETURN PIPING TO EXISTING STUBS.

7 OFFSET PIPING AS REQUIRED FOR DUCTWORK.



N GROUND FLOOR PIPING - NEW WORK
Scale: 1/4" = 1'-0"



N KEYPLAN
Scale: 1" = 60'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: GROUND FLOOR PIPING - REMOVALS AND NEW WORK

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: JAC | Drawn: TEG

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-H2
Dwg. 27 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

ELECTRICAL SYMBOLS

	ELECTRICAL CONNECTION.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.
	20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (46" MH UNLESS NOTED OTHERWISE).
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).
WP	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #10310 STANDARD COVER, VERTICAL MOUNT.
WP-GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #20310 STANDARD COVER, VERTICAL MOUNT.
EM	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, ON EMERGENCY POWER (18" MH UNLESS NOTED OTHERWISE).
	20A-125V DUPLEX PEDESTAL TYPE FLOOR RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLOOR BOX WITH SA-2525 COVERPLATE AND SC-3091 HOUSING. PROVIDE CARPET FLANGE WHERE REQUIRED.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, IN HUBBELL BA-2527 FLUSH FLOOR BOX WITH ROUND SA-3925 COVERPLATE. PROVIDE CARPET FLANGE WHERE REQUIRED.
IG	20-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH ISOLATED GROUND (18" MH UNLESS NOTED OTHERWISE).
20A	20A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-125/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" MH UNLESS NOTED OTHERWISE).
20A	20A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-20R (18" MH UNLESS NOTED OTHERWISE).
30A	30A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-30R (18" MH UNLESS NOTED OTHERWISE).
50A	50A-250V-3PH-4W SINGLE RECEPTACLE, NEMA 15-50R (18" MH UNLESS NOTED OTHERWISE).
J	JUNCTION BOX.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).
$	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).
2 $	TWO POLE WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
3 $	THREE-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
4 $	FOUR-WAY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
P $	SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
K $	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
DM $	LIGHTING DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE) 1000 WATTS UNLESS OTHERWISE INDICATED.
R $	SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) STANDARD TWO-GANG ASSEMBLY OF SWITCH AND RECEPTACLE.
M $	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).
H $	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.
P/B	PULL BOX.
J	DISCONNECT SWITCH.
	MOTOR STARTER.
J	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL.
AC	AIR CONDITIONER.
CU	CONDENSING UNIT.
UV	UNIT VENTILATOR.
M	INTERCOM SYSTEM DESK MOUNTED MASTER CONTROL STATION. SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE).
I	INTERCOM STAFF STATION (46" MH UNLESS NOTED OTHERWISE).
H	INTERCOM HORN TYPE SPEAKER (84" MH UNLESS NOTED OTHERWISE).
S	INTERCOM SPEAKER FLUSH MOUNT IN CEILING.
	PUSHBUTTON (46" MH UNLESS NOTED OTHERWISE) EDWARDS 852 (120 VOLT).
	BUZZER (90" MH UNLESS NOTED OTHERWISE) EDWARDS 340-A (120 VOLT).
	ELAPSED TIME INDICATOR CLOCK (90" MH UNLESS NOTED OTHERWISE) WITH RESET SWITCH (46" MH UNLESS NOTED OTHERWISE).
PC	PHOTOELECTRIC SENSOR.
LC	LIGHTING CONTACTOR.
OS	CEILING MOUNTED OCCUPANCY SENSOR.
OS	WALL MOUNTED OCCUPANCY SENSOR.
DS	CEILING MOUNTED DAYLIGHT SENSOR.

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL.
15 F	FIRE ALARM SPEAKER & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM BELL & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM CHIME & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15 F	FIRE ALARM HORN & SIGNAL LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
15	FIRE ALARM SIGNALING LIGHT (80" AFF), (# WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
S F	CEILING MOUNTED FIRE ALARM SPEAKER.
F K	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S S/R	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
H S/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
C	ELECTRIC RELEASE DOOR CLOSER.
D	ELECTRO-MAGNETIC DOOR HOLDER.
FS	WATER FLOW SWITCH.
V	VALVE SUPERVISORY SWITCH.
H W	DUCT MOUNTED DETECTOR REMOTE TEST STATION AND ALARM INDICATOR LIGHT. SUBSCRIPT "W" INDICATES WALL MOUNTED.
SD	SMOKE DAMPER.
FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
PS	PRESSURE SWITCH.
AM C/I	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
PIV	POST INDICATOR VALVE.
K	KNOX BOX.
F AR	AREA OF RESCUE REMOTE STATION, MTD " A.F.F. REFER TO DETAIL "2", SHEET -E4.
F AM	AREA OF RESCUE MASTER STATION, REFER TO DETAIL "2", SHEET -E4.

LUMINAIRE SYMBOLS

A a	LIGHTING FIXTURE. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
	EXIT LIGHTING FIXTURE, ARROWS AS INDICATED.

ABBREVIATIONS

AAP - AREA ALARM PANEL - MEDICAL GAS
CC - ACCESS
ADJ - ADJUSTABLE
AF - ARC FAULT CIRCUIT INTERUPTER
AFCI - ARC FAULT CIRCUIT INTERUPTER
AFF - ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG - ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT - ALTERNATE
AP - ACCESS PANEL
APPROX - APPROXIMATE
ARCH - ARCHITECT OR ARCHITECTURAL
ASSY - ASSEMBLY
ATS - AUTOMATIC TRANSFER SWITCH

BLDG - BUILDING
BOE - BOTTOM OF EQUIPMENT
BOT - BOTTOM
BTWN - BETWEEN

CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT - CIRCUIT
CLG - CEILING
CMU - CONCRETE MASONRY UNIT
CONN - CONNECT OR CONNECTION
CONTR - CONTRACTOR
CORR - CORRIDOR
CTR - CENTER

D - DEPTH
DET - DETAIL
DIA - DIAMETER
DIM - DIMENSION
DIV - DIVISION
DN - DOWN
DWG - DRAWING

EA - EACH
EC - ELECTRICAL CONTRACTOR (DIVISION 26)
EJ - EXPANSION JOINT
ELEC - ELECTRICAL
ELEV - ELEVATION OR ELEVATOR
EM - EMERGENCY
EQ - EQUAL
EQS - EQUIPMENT SUPPLIER
EQUIP - EQUIPMENT
ETR - EXISTING TO REMAIN
EX - EXISTING
EXP - EXPANSION
EXT - EXTERIOR
Ex/R - EXISTING DEVICE TO BE REMOVED, CLEANED AND REUSED/RELOCATED.
FCE - FIRE CONTROL EQUIPMENT
FF - FINISHED FLOOR ELEVATION
FLR - FLOOR
FSC - FIRE SUPPRESSION CONTRACTOR (DIVISION 21)
FT - FEET
FTG - FOOTING

GC - GENERAL CONTRACTOR
GF - GROUND FAULT CIRCUIT INTERRUPTER
GFCI - GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT - GROUND FAULT FEED THRU

HC - HVAC CONTRACTOR (DIVISION 23)
HP - HORSE POWER OR HIGH POINT
HVAC - HEATING, VENTILATING, AND AIR CONDITIONING

ID - INSIDE DIAMETER
IN - INCHES

KEC - KITCHEN EQUIPMENT CONTRACTOR

L - LENGTH
LBS - POUNDS

MAP - MASTER ALARM PANEL (MEDICAL GAS)
MAX - MAXIMUM
MEZZ - MEZZANINE
MFR - MANUFACTURER
MH - MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN - MINIMUM OR MINUTE
MISC - MISCELLANEOUS
MTD - MOUNTED
MTG - MOUNTING

NIC - NOT IN CONTRACT
NOM - NOMINAL
NTS - NOT TO SCALE

OD - OUTSIDE DIAMETER
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED

PC - PLUMBING CONTRACTOR (DIVISION 22)
PLBG - PLUMBING

RAD - RADIUS
REC - RECESSED
REQD - REQUIRED
RI - ROUGH-IN

S - SURFACE MOUNTED
SC - SECURITY CONTRACTOR
SCH - SCHEDULE
SHT - SHEET
SMS - SECURITY MANAGEMENT SYSTEM
SPEC - SPECIFICATIONS
SQ - SQUARE
SS - STAINLESS STEEL
STD - STANDARD
STRUC - STRUCTURAL OR STRUCTURE
SUC - SITE UTILITY CONTRACTOR

TC - TECHNOLOGY CONTRACTOR
TEMP - TEMPERATURE
TOE - TOP OF EQUIPMENT
TYP - TYPICAL

UNO - UNLESS NOTED OTHERWISE

VFD - VARIABLE FREQUENCY DRIVE
VOL - VOLUME

W/ - WITH
W/0 - WITHOUT
WP - WEATHERPROOF

ZVC - ZONE VALVE CABINET

GENERAL FLOOR PLAN NOTES

B E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
X - 1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

TECHNOLOGY SYMBOLS WITH ELECTRICAL REQUIREMENTS

	CONDUIT SLEEVE / FIRE RATED SLEEVE ASSEMBLY THRU WALL (1-2" SLEEVE UNLESS NOTED OTHERWISE) BY DIV 26.
	WALL MOUNTED VOICE/DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE CORRIDOR CEILING BY DIV 26. JACKS, FACEPLATE AND CABLE BY DIV 27. REFER TO FACEPLATE DETAILS.
	WALL MOUNTED PHONE OUTLET (46" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING BY DIV 26. JACKS, FACEPLATE AND CABLE BY DIV 27. REFER TO FACEPLATE DETAILS.
	VOICE/DATA TRIPLEX OUTLET (18" MH). PROVIDE 1" CONDUIT TO CORRIDOR CABLE MANAGEMENT ABOVE ACCESSIBLE CEILING. REFER TO DETAIL SHEET E4.02.
P	TELEPHONE OUTLET, WALL TYPE 54" MH. PROVIDE 1" CONDUIT TO CORRIDOR CABLE MANAGEMENT ABOVE ACCESSIBLE CEILING. REFER TO DETAIL SHEET E4.02.
SC	RECESSED CEILING SPEAKER FOR PUBLIC ADDRESS.
CM	J-HOOK CABLE MANAGEMENT SYSTEM MAJOR PATHWAY. PROPOSED LOCATIONS FOR BIDDING PURPOSES ONLY. REFER TO SPECIFICATIONS F OR CABLE MANAGEMENT SYSTEMS REQUIREMENTS.

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

SHEET LIST

Sheet Number	Sheet Name
E1	SYMBOLS
E2	LIGHTING FIXTURE DESCRIPTIONS 1
E3	PRIMARY SINGLELINE
E4	SECONDARY SINGLE LINE
E5	SITE PLAN
E6	SIGNALS DETAILS
210-E1	PARTIAL BASEMENT - REMOVALS
210-E2	PARTIAL BASEMENT PLAN - LIGHTING
210-E3	PARTIAL BASEMENT PLAN - POWER
210-E4	PARTIAL BASEMENT PLAN - SIGNALS
210-E5	OVERALL BUILDING SYSTEMS PLANS
210-E6	OVERALL BUILDING SYSTEMS PLANS

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SYMBOLS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No.: VA Project No. 538-13-104; JPA Project No. 12001.00

Building Number: 210

Drawing Number: E1

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Office of Construction and Facilities Management

Department of Veterans Affairs

SPECIFICATION GRADE CHAIN HUNG INDUSTRIAL, NOMINAL 14" X 4' IN SIZE AND APPROXIMATELY 6" DEEP.

HOUSING: CODE GAUGE STEEL HOUSING WITH LONGITUDINAL REINFORCING RIBS. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. DESIGNED FOR INDIVIDUAL OR CONTINUOUS ROW MOUNTING. SPRING LOADED TURRET LAMP HOLDERS. WIRE GUARD.

REFLECTOR: DIE-EMBOSSED STEEL WITH TRANSVERSE RIBS FOR RIGIDITY. 10%-15% UPLIGHT APERTURES.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKE ENAMEL.

LAMPS: TWO RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

LOCATION: CHAIN MOUNT AT 7'-6" AFF UNLESS NOTED OTHERWISE.

FLUORESCENT INDUSTRIAL FIXTURE

E / C1

SPECIFICATION GRADE RECESSED FLUORESCENT LIGHTING TROFFER WITH FLAT LOW-BRIGHTNESS LENS PANEL, NOMINAL 2' X 4' IN SIZE AND APPROXIMATELY 4.25 INCHES DEEP.

HOUSING: DIE FORMED AND EMBOSSED CODE GAUGE STEEL. END CAPS HINGED AND SCREWED TO HOUSING FOR RIGIDITY. DESIGNED FOR INSTALLATION IN CEILING TYPE SHOWN ON ARCHITECTURAL DRAWINGS. INTEGRAL T-BAR CLIPS. HARDWARE FOR MINIMUM 4 POINTS OF SUPPORT. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE BAKED WHITE ENAMEL AND SPECULAR SILVER INSERT.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND HIGH REFLECTANCE BAKED WHITE ENAMEL.

SHIELDING: 100% PRISMATIC VIRGIN ACRYLIC, PATTERN 12, .125" THICK (NOMINAL). FLUSH DOOR WITH MITRED CORNERS, INCONSPICUOUS CAM ACTION LATCHES.

LAMPS: RAPID START 32W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

VARIATIONS:

EF2: TWO LAMP FIXTURE WITH ONE STANDARD BALLAST.

EF2a: TWO LAMP FIXTURE WITH PROGRAMMED RAPID START STEP DIMMING BALLAST.

EF3: THREE LAMP FIXTURE WITH TWO STANDARD BALLASTS WHERE DUAL LEVEL SWITCHING IS SHOWN ON PLANS.

EF4: THREE LAMP WET LOCATION LISTED FIXTURE WITH ALUMINUM FRAME

EF5: 2' x 2' FIXTURE WITH 2-17W T8 LAMPS.

EF5a: 2' x 2' FIXTURE WITH 2-17W T8 LAMPS. WITH PROGRAMMED RAPID START STEP DIMMING SWITCHING IS SHOWN ON PLANS.

RECESSED FLUORESCENT FIXTURE

E / Fx

SPECIFICATION GRADE FLUORESCENT RECESSED DOWNLIGHT, NOMINAL 6" DIA.

HOUSING: 16 GAUGE GALVANIZED STEEL MOUNTING/PLASTER FRAME AND BARS WITH INTEGRAL YOKE TO RETAIN OPTICAL SYSTEM.

REFLECTOR: SEMI-SPECULAR SILVER REFLECTOR.

LAMPS: ONE 4 PIN 42W TRIPLE TUBE CFL, MIN CRI OF 80, 4100K.

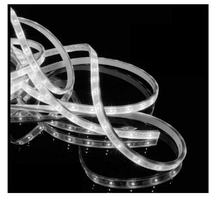
BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.95 BF, 120/277V.

VARIATIONS:

EN1a: AS LISTED ABOVE WITH WALL WASH REFLECTOR.

RECESSED FLUORESCENT DOWNLIGHT

E / N1



SPECIFICATION GRADE FLEXIBLE LED "ROPE LIGHT".

NUMBER OF LED's: 11 PER FT

LED COLOR: COOL WHITE 4k, CRI 80.

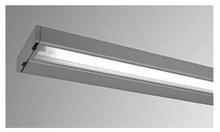
DIMENSIONS: 1/2"H X 1/2"W

WATTS / VOLTAGE: 1W/FT @ 24V DC

PROVIDE ALL NECESSARY ACCESSORIES (DRIVERS, TRANSFORMERS, ETC) FOR A COMPLETE INSTALLATION.

FLEXIBLE LED ROPE

E / R-1



SPECIFICATION GRADE UNDER CABINET FLUORESCENT LIGHTING FIXTURE WITH FLAT STIPLED ACRYLIC LENS PANEL, NOMINAL 1.25" DP x 4.5" WIDE IN SIZE.

HOUSING: EXTRUDED ALUMINUM BODY, WIREWAY COVER AND LENS FRAME. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING. PROVIDE ROCKER SWITCH.

REFLECTOR: SPECULAR SILVER REFLECTOR.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE ANTI-MICROBIAL POLYESTER POWDER COAT PAINT.

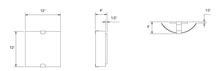
LAMPS: RAPID START T5 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

NOMINAL 48" IN LENGTH, 1-32W T8 LAMP.

UNDERCABINET LIGHT

U / C-4



DECORATIVE FLUORESCENT WALL SCONCE.

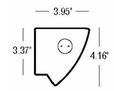
HOUSING: ALUMINUM BACK PLATE, PAINTED OR DIE CAST ALUMINUM TRIM BARS. CURVED PERFORATED FASCIA.

LAMPS: TWO 13W 4 PIN TRIPLE TUBE CFL, MIN CRI OF 80, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.95 BF, 120/277V.

FLUORESCENT WALL SCONCE

E / W-7



SPECIFICATION GRADE WALL MOUNTED LIGHTING FIXTURE.

HOUSING: EXTRUDED ALUMINUM HOUSING WITH PERFORATED VERTICAL CURVED FACIA. SEPARATE NON-CAPTIVE STUD FOR FIXTURE GROUNDING.

REFLECTOR: HIGH REFLECTANCE STEEL OR ALUMINUM, MIN 85% REFLECTANCE.

FINISH: MULTI-STAGE PHOSPHATE BONDING TREATMENT AND WHITE BAKED ENAMEL.

LAMPS: RAPID START 17W-T8 LAMPS, MIN CRI OF 85, 4100K.

BALLAST: HPF ELECTRONIC PROGRAMMED RAPID START BALLAST, 0.88BF, 120/277V.

EW5: NOMINAL 24" IN LENGTH, 1-17W T8 LAMP.

FLUORESCENT VANITY FIXTURE

E / W-5

HOUSING AND CANOPY: MARINE GRADE VINYL CLAD ALUMINUM.

DOOR FRAME: HINGED WITH ALUMINUM REINFORCED POLYCARBONATE SHIELD.

FINISH: WHITE

INSCRIPTION PANEL(S): RED L.E.D. 6" LETTERS

LAMPS: MULTIPLE L.E.D. LAMP ASSEMBLY WITH MINIMUM OF 20,000 HOURS LIFE.

VARIATIONS: TYPE EX2 DENOTE DOUBLE FACED FIXTURES. FURNISHED FIXTURES WITH DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS AND WIRED FOR 120/277-VOLT OPERATION AS INDICATED.

LOCATION: CEILING MOUNT WHERE SHOWN. WALL MOUNT AT 7'-4" AFF WHERE SHOWN UNLESS OTHERWISE NOTED.

TOP MOUNTED EXIT LIGHT

E / X1

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: LIGHTING FIXTURE DESCRIPTIONS 1

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: E2

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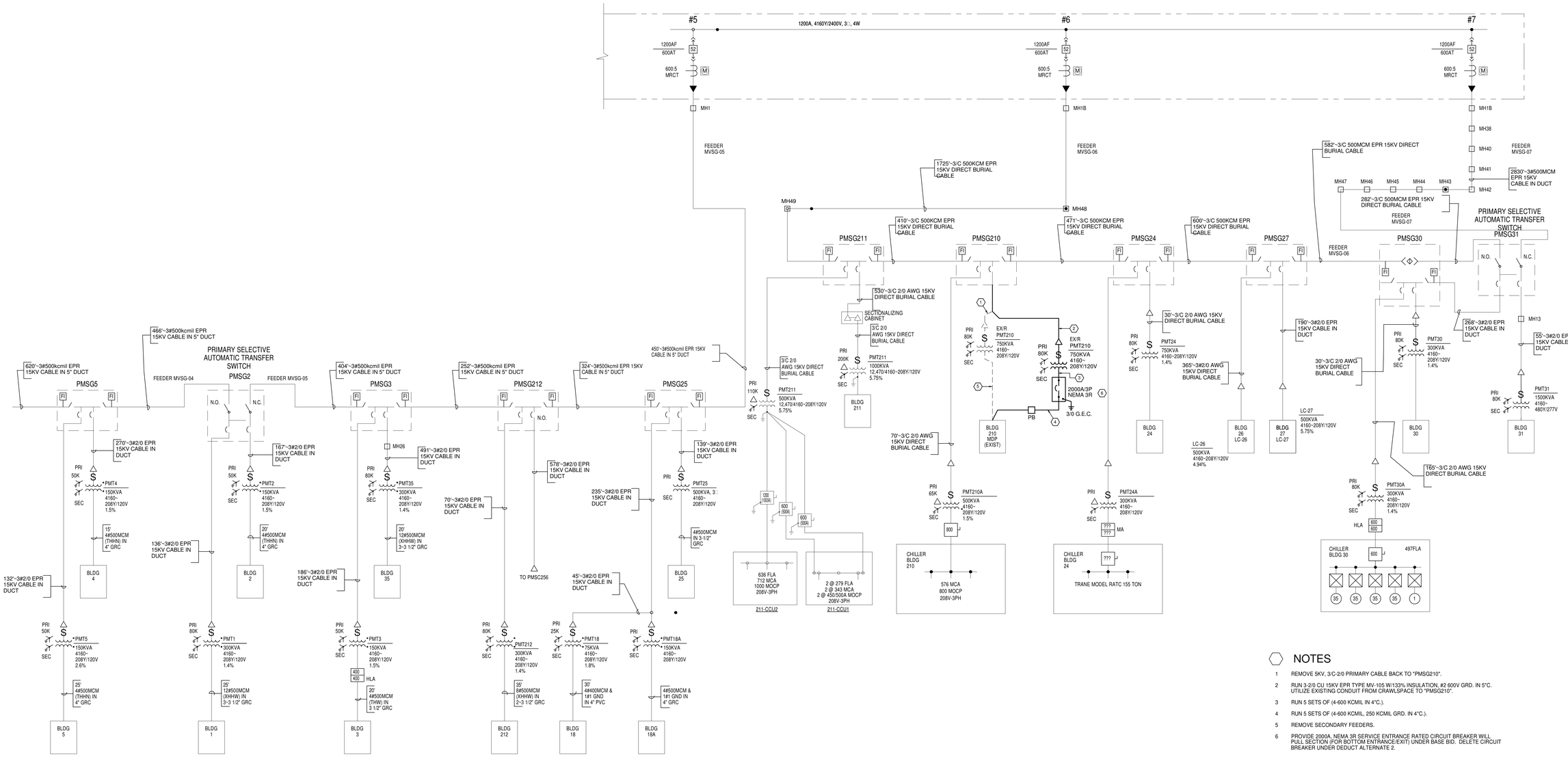
Department of Veterans Affairs

5KV MAIN CAMPUS DISTRIBUTION SWITCHGEAR



NOTES

1. REMOVE 5KV, 3/C-2/0 PRIMARY CABLE BACK TO "PMSG210".
2. RUN 3-2/0 CU 15KV EPR TYPE MV-105 W/133% INSULATION, #2 600V GRD. IN 5"C. UTILIZE EXISTING CONDUIT FROM CRAWLSPACE TO "PMSG210".
3. RUN 5 SETS OF (4-600 KCMIL IN 4"C.).
4. RUN 5 SETS OF (4-600 KCMIL, 250 KCMIL GRD. IN 4"C.).
5. REMOVE SECONDARY FEEDERS.
6. PROVIDE 2000A, NEMA 3R SERVICE ENTRANCE RATED CIRCUIT BREAKER WILL PULL SECTION (FOR BOTTOM ENTRANCE/EXIT) UNDER BASE BID. DELETE CIRCUIT BREAKER UNDER DEDUCT ALTERNATE 2.

PARTIAL PRIMARY ELECTRIC SINGLE LINE DIAGRAM

SCALE: NONE

ALL LIGHT LINEWEIGHTS INDICATE EXISTING EQUIPMENT TO REMAIN. DASHED LINEWEIGHTS INDICATES EQUIPMENT TO BE REMOVED. DARK LINEWEIGHT INDICATES NEW WORK.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PRIMARY SINGLELINE

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Drawing Number: E3

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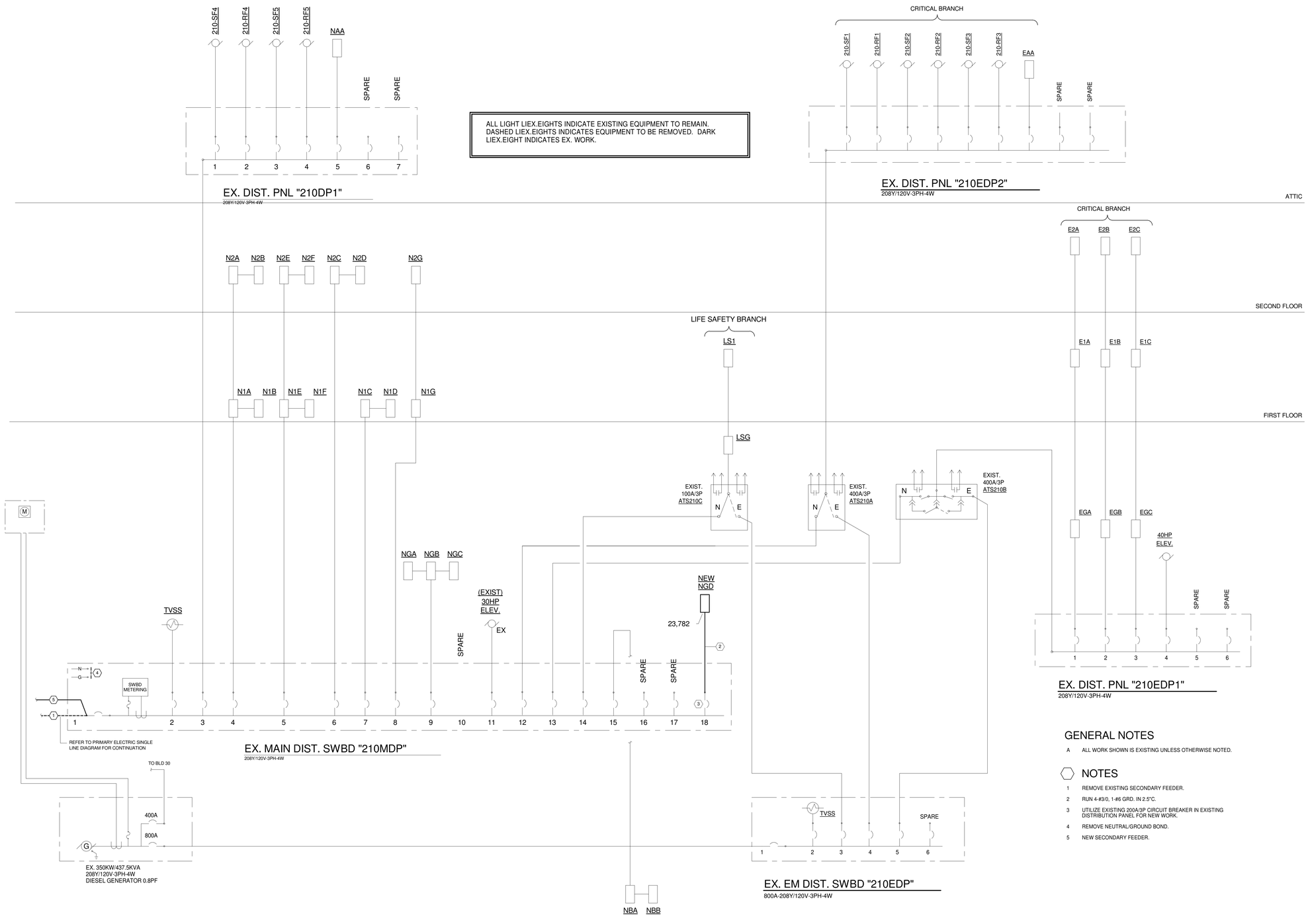
Office of Construction and Facilities Management

Department of Veterans Affairs



GENERAL NOTES

A ALL WORK SHOWN IS EXISTING UNLESS OTHERWISE NOTED.

NOTES

1 REMOVE EXISTING SECONDARY FEEDER.

2 RUN 4-#3/0, 1-#6 GRD. IN 2.5"C.

3 UTILIZE EXISTING 200A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL FOR NEW WORK.

4 REMOVE NEUTRAL/GROUND BOND.

5 NEW SECONDARY FEEDER.

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Drawing Title: SECONDARY SINGLE LINE

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: E4

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Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES:

A SEQUENCE OF CONSTRUCTION INDICATED BELOW IS ONE POSSIBLE SOLUTION TO MINIMIZE DOWNTIME OF THE BUILDING ELECTRICAL SYSTEM. CONTRACTOR IS REQUIRED TO SUBMIT A DETAILED SEQUENCE OF OPERATION TO THE COTR AT THE BEGINNING OF THE PROJECT. DEVIATIONS FROM THE FOLLOWING PROPOSED SEQUENCE OF CONSTRUCTION WILL BE REVIEWED, BUT WILL NOT BE GROUNDS FOR ADDITIONAL COST TO THE GOVERNMENT.

B ALL CUTOVER WORK DOWNTIME SHALL BE DONE OUTSIDE OF NORMAL WORKING HOURS (NIGHTS AND WEEKENDS). COORDINATE DOWNTIME SCHEDULES WITH COTR MINIMUM OF TWO WEEKS IN ADVANCE FOR PROPER COORDINATION.

C REFER TO FLOOR PLANS AND SINGLE LINE FOR ADDITIONAL INFORMATION.

SEQUENCE OF CONSTRUCTION:

PHASE I:

(a) ALL EXISTING UNDERGROUND UTILITIES ARE TO BE MARKED, WITH DEPTH, IN AREAS WHERE NEW DUCTBANKS ARE TO CROSS OR EQUIPMENT IS LOCATED.

(b) ROUGH-IN NEW PRIMARY CONDUIT FROM NEW PULLBOX LOCATION, IN EXISTING CRAWL SPACE, TO NEW TRANSFORMER CONCRETE PAD LOCATION.

(c) ROUGH-IN PULLBOX, NEW SECONDARY CONDUITS FROM NEW TRANSFORMER LOCATION TO NEW SERVICE DISCONNECT, THRU EXISTING CRAWL SPACE, TO EXISTING MAIN DISTRIBUTION PANEL "210MDP".

(d) PROVIDE NEW TRANSFORMER CONCRETE PAD ADJACENT TO EXISTING TRANSFORMER "PMT210".

(e) SET NEW NEMA 3R SERVICE DISCONNECT CIRCUIT BREAKER, GROUNDING ELECTRODE, ETC...

PHASE II:

(a) SET TEMPORARY GENERATOR, AND TEMPORARY FEEDER(S).

(b) OPEN 5KV SWITCH IN PMSG210 SERVING PMT210A. SPLICE TEMPORARY FEEDER FROM GENERATOR TO EXISTING SECONDARY CONDUCTORS. UTILIZE EXISTING INTERIOR PULL BOX AS SPLICE LOCATION. BUILDING POWER SHALL BE RESTORED (ON TEMPORARY GENERATOR) IN LESS THAN 4 HOURS.

PHASE III:

(a) DISCONNECT ALL ASSOCIATED FEEDERS TO EXISTING TRANSFORMER "PMT210" TO ALLOW FOR RELOCATION OF EXISTING TRANSFORMER. LIFT EXISTING TRANSFORMER "PMT210" FROM EXISTING LOCATION AND RELOCATE TO NEW ADJACENT PAD.

(b) PULL NEW PRIMARY AND SECONDARY FEEDERS, INDICATED ON SINGLE LINE, FROM PMSG210 TO NEW TRANSFORMER LOCATION AND EXISTING MAIN DISTRIBUTION PANEL "210MDP" (THROUGH NEW SERVICE DISCONNECT C.B.).

(c) SHUT DOWN TEMPORARY GENERATOR TO ALLOW FOR FINAL TIE-IN OF NEW FEEDERS TO 210MDP. NEW TIE-IN SHALL BE MADE WITH A MAXIMUM 4 HOUR DOWN TIME.

(d) CLOSE SWITCH IN PMSG210 TO ENERGIZE PMT210A AND 210MDP.

PHASE IV:

(a) REMOVE ALL EXISTING FEEDERS, CONDUITS AND CONCRETE PAD NO LONGER BEING USED ASSOCIATED WITH THIS WORK.

NOTES

1 NEW EXTERIOR WEATHER PROOF SERVICE DISCONNECT.

2 EXISTING PRIMARY FEEDER. REFER TO PRIMARY SINGLELINE FOR ADDITIONAL INFORMATION.

3 EXISTING PAD MOUNTED PRIMARY ELECTRIC SWITCH.

4 EXISTING MAIN ELECTRICAL ROOM. REFER TO 1/4" FLOOR PLANS

5 RELOCATED 750 KVA PAD MOUNTED TRANSFORMER, REFER SHEET E3.01 FOR ADDITIONAL INFORMATION.

6 NEW 400KW (208Y/120V-3PH-4W) TEMPORARY GENERATOR WITH OVERLOAD PROTECTION FOR TEMPORARY "NORMAL" POWER DURING CUTOVER. REFER TO SEQUENCE OF CONSTRUCTION NOTES ABOVE.

7 NEW TEMPORARY FEEDERS. RUN 4 SETS OF (4-600 KCMIL IN 4"C.).

8 EXISTING PULL BOX. REFER TO SEQUENCE OF CONSTRUCTION AND REMOVAL PLANS FOR ADDITIONAL INFORMATION.

9 EXISTING SECONDARY FEEDERS. REFER TO SEQUENCE OF CONSTRUCTION AND REMOVAL PLANS FOR ADDITIONAL INFORMATION.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: SITE PLAN

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

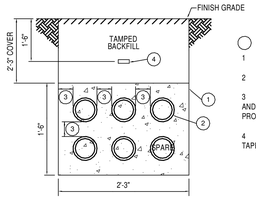
Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: E5
Dwg. 32 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs



DETAIL NOTES

1 3000 LB. CONCRETE.

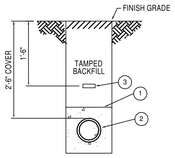
2 4" I.D. DUCTS, SCHEDULE 40 PVC.

3 MIN. 3" SPACING BETWEEN CONDUITS AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.

4 RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

2 UNDERGROUND DUCT DETAIL (6)

SCALE: 1/8" = 1'-0"



DETAIL NOTES

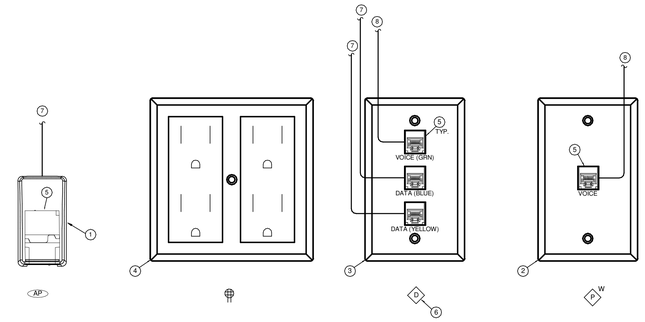
1 3000 LB. CONCRETE ENCASEMENT. 3" MIN. FROM OUTSIDE OF DUCT.

2 SCHEDULE 40 PVC DUCT IN 4"C.

3 RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

3 UNDERGROUND DUCT DETAIL (1)

SCALE: 1/8" = 1'-0"



DETAIL NOTES

1 SURFACE MOUNT UTP DATA JACK ABOVE ACCESSIBLE CEILING.

2 1-GANG DEVICE BOX. SUBSCRIPT "W" INDICATES WALL PHONE PLATE. REFER TO LEGEND FOR M.H.

3 4-11/16" X 4-11/16" X 3.5" DEEP DEVICE BOX WITH W/ SINGLE-GANG PLATE.

4 DOUBLE DUPLEX RECEPTACLE.

5 UTP DATA / VOICE JACK.

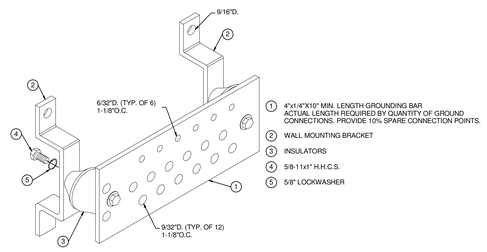
6 DEFAULT OUTLET IS 4 DATA JACKS (3D:1V).

7 RUN TO LOCAL DATA STATION CABLE TERMINATION EQUIPMENT.

8 RUN TO LOCAL VOICE STATION CABLE TERMINATION EQUIPMENT.

5 / E6 TYPICAL VOICE/DATA OUTLETS

SCALE: NONE



4 / E6 TELECOM GROUND BAR

SCALE: NONE

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Revisions	Date

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Drawing Title: SIGNALS DETAILS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: E6
Dwg. 33 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL NOTES

A MAINTAIN ALL LIGHTING AND RECEPTACLE CIRCUITS FOR NEW WORK (WHERE INDICATED AND/OR REQUIRED).

B REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE. ASSOCIATED WORK SHALL BE DONE IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.

C MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THRU RENOVATED AREAS SERVICING UNDISTURBED AREAS.

D MAINTAIN EXISTING FIRE ALARM DEVICES AS INDICATED FOR RELOCATION UNDER NEW WORK PHASE.

E MAINTAIN EXISTING PAGING CIRCUIT FOR NEW WORK.

NOTES

1 REMOVE SURFACE MOUNTED PULL BOX ONCE NEW SECONDARY SERVICE IS FULLY OPERATIONAL. REFER TO SEQUENCE OF CONSTRUCTION, SHEET E5.

2 REMOVE 750 KVA PAD MOUNTED TRANSFORMER AND RELOCATE. REMOVE CONCRETE PAD, GROUNDING, ETC... RESTORE SITE GRASS (SEED). REFER TO SITE PLAN AND PRIMARY SINGLE LINE.

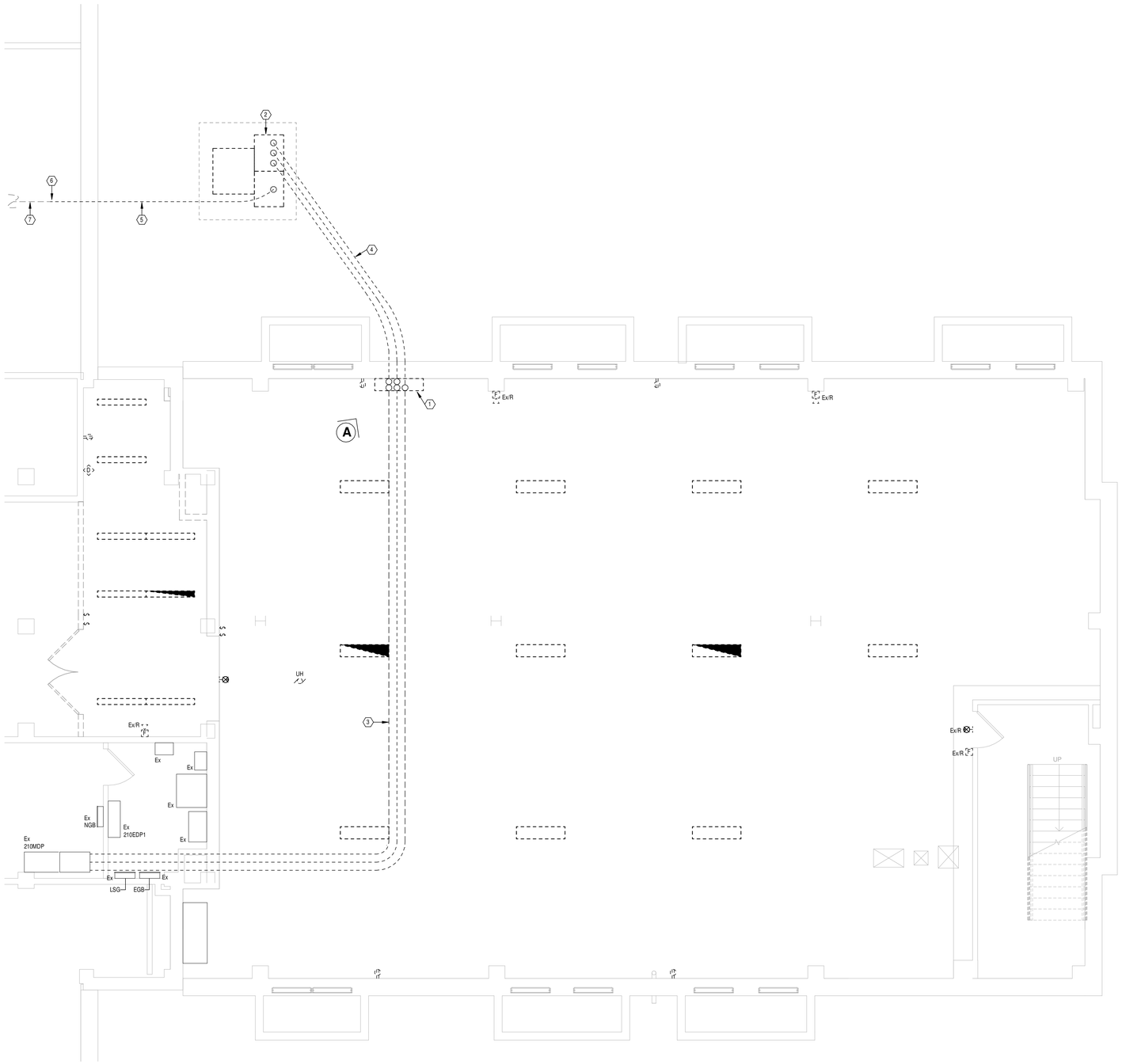
3 REMOVE SECONDARY FEEDERS (5-4" C.) ONCE NEW FEEDER IS CONSTRUCTED. REFER TO SITE PLAN AND PRIMARY SINGLE LINE.

4 REMOVE 5-4"C. CONCRETE ENCASED DUCTBANK AND SECONDARY FEEDERS ONCE NEW FEEDER IS CONSTRUCTED.

5 REMOVE 1-5" CONCRETE ENCASED PRIMARY DUCTBANK AND 5KV FEEDER ONCE NEW FEEDER IS CONSTRUCTED. REFER TO SITE PLAN.

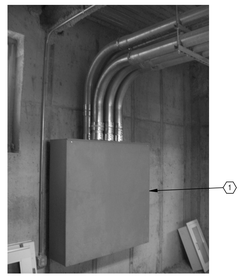
6 REMOVE 1-5" CONDUIT BACK TO NEW PULLBOX LOCATION. REFER TO POWER PLAN.

7 EXISTING PRIMARY CONDUIT TO PMSG210.

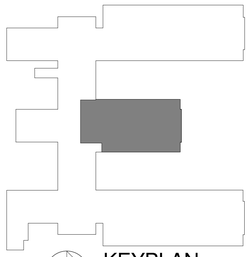


N PARTIAL BASEMENT PLAN - REMOVALS

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



A PULLBOX PHOTOGRAPH



N KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL BASEMENT - REMOVALS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E1

Dwg. 34 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE CONTROL.

B WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSOR RELAY PACK AHEAD OF LOCAL SWITCHING. (EXCEPT LIFE SAFETY CIRCUITS)

C PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.

D COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

E OCCUPANCY SENSOR MANUFACTURERS SHALL SUBMIT AN 1/8" SCALE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANY SENSOR SHOP DRAWING SUBMITAL MISSING THIS INFORMATION WILL BE REJECTED. REQUEST AutoCAD FLOOR PLANS WELL IN ADVANCE OF SHOP DRAWINGS TO ENSURE REASONABLE TIME OF DELIVERY.

F COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.

G WIRE ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING.

H CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

J PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.

K (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

L MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

M INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

N REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

P REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

NOTES

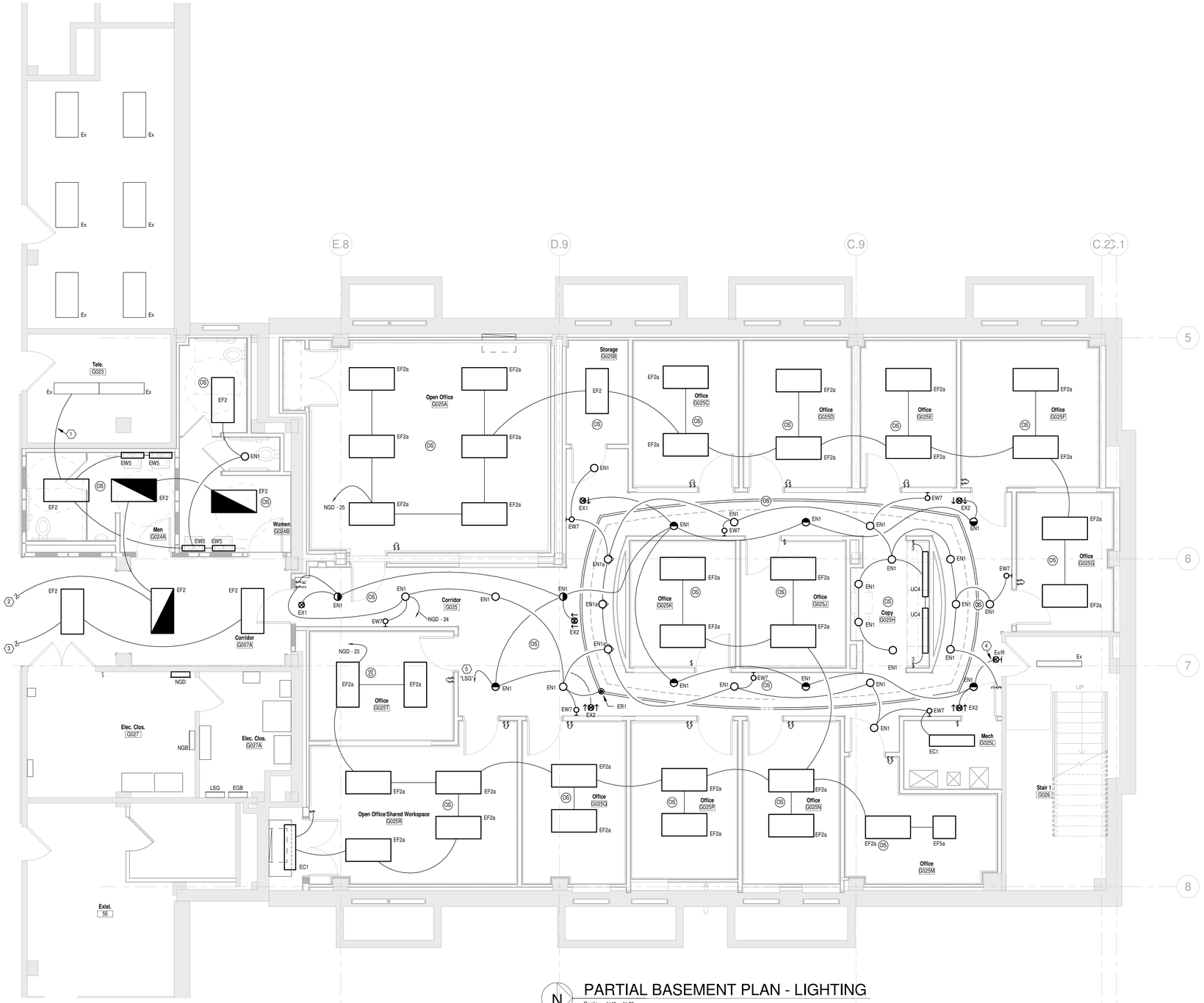
1 CONNECT TO EXISTING 120V NORMAL POWER LIGHTING CIRCUIT.

2 CONNECT TO EXISTING 120V EMERGENCY POWER CORRIDOR LIGHTING CIRCUIT.

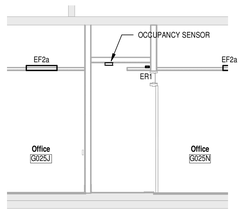
3 CONNECT TO EXISTING 120V NORMAL POWER CORRIDOR LIGHTING CIRCUIT.

4 CONNECT EXISTING EXIT SIGN TO NEW 120V EMERGENCY POWER LIGHTING CIRCUIT.

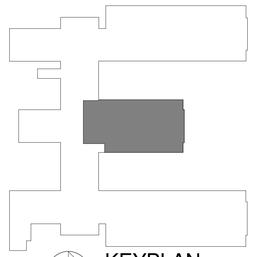
5 PROVIDE NEW 120V-20A/1P BREAKER IN EXISTING PANEL FOR NEW WORK.



N PARTIAL BASEMENT PLAN - LIGHTING
Scale: 1/4" = 1'-0"



2 REFERENCE SECTION
SCALE: 1/4" = 1'-0"



N KEYPLAN
Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL BASEMENT PLAN - LIGHTING

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

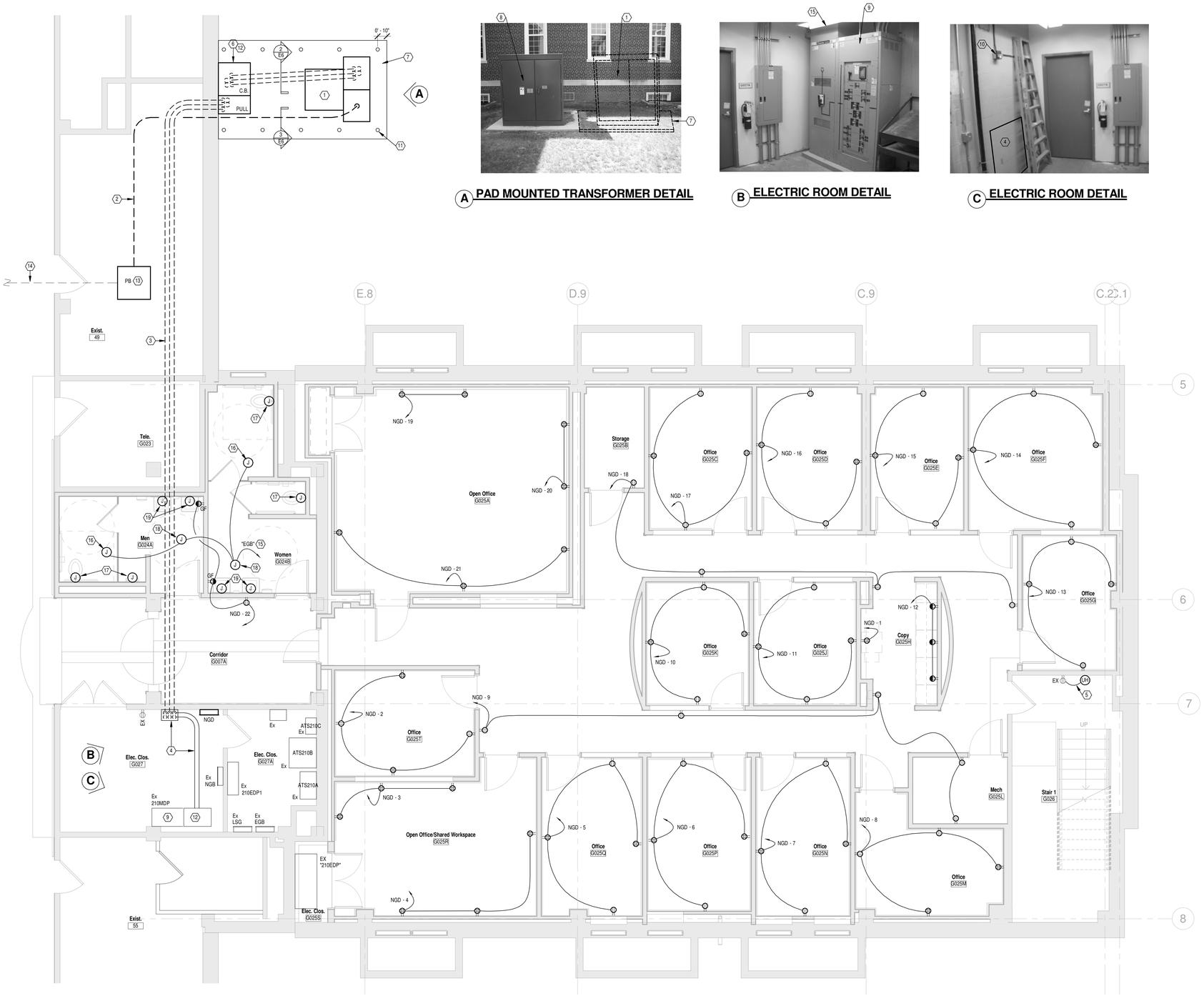
Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No.
VA Project No. 538-13-104
JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E2
Dwg. 35 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs



N PARTIAL BASEMENT PLAN - POWER

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

A PAD MOUNTED TRANSFORMER DETAIL

B ELECTRIC ROOM DETAIL

C ELECTRIC ROOM DETAIL

GENERAL NOTES

A PROVIDE DEDICATED NEUTRAL FOR ALL 120V-20A CIRCUITS.

B PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH OVERPLATES INDICATING PANEL AND CIRCUIT NUMBER.

C CONDUIT SHALL BE 0.75" MINIMUM.

D REFER TO DIVISION 22/ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL PLUMBING EQUIPMENT.

E CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

F (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

G MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

H INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.

I REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

J REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

K REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

NOTES

1 RELOCATED TRANSFORMER "PMT210". REFER TO SINGLE LINE AND SITE PLAN FOR ADDITIONAL INFORMATION.

2 NEW PRIMARY FEEDER, RUN IN CRAWL SPACE BELOW. REFER TO SINGLE LINE AND SITE PLAN FOR ADDITIONAL INFORMATION.

3 NEW SECONDARY FEEDER, REFER TO SINGLE LINE AND SINGLE LINE FOR ADDITIONAL INFORMATION.

4 PROVIDE NEW PULL BOX AND OVERHEAD FEEDERS TO EXISTING MAIN DISTRIBUTION PANEL 210MDP". SIZE PULL BOX PER NEC SECTION 314.28. RUN AS HIGH AS POSSIBLE.

5 CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT.

6 PROVIDE 2000A, 100% RATED, SERVICE ENTRANCE RATED, CIRCUIT BREAKER DISCONNECT IN A NEMA 3R ENCLOSURE WITH PULL SECTION. PROVIDE NEW GROUNDING ELECTRODE CONDUCTORS TO ALL ELECTRODES PRESENT UNDER BASE BID. DELETE SWITCH UNDER DEDUCT ALTERNATE 2.

7 NEW (3000 PSI MIN) CONCRETE TRANSFORMER PAD. REFER TO SPEC SECTION 26 12 19 FOR ADDITIONAL INFORMATION.

8 EXISTING/CURRENT TRANSFORMER LOCATION. REFER TO SEQUENCE OF CONSTRUCTION, SHEET E5 AND REMOVAL PLANS FOR ADDITIONAL INFORMATION.

9 EXISTING MAIN DISTRIBUTION PANEL "210 MDP".

10 RELOCATE EXISTING HORN/STROBE TO ACCOMMODATE NEW SURFACE MOUNTED FEEDERS.

11 4" CONCRETE FILLED BOLLARDS. REFER TO ARCHITECTURAL DRAWING. SHEET A601, FOR ADDITIONAL INFORMATION.

12 TERMINATE NEW SECONDARY FEEDER CONDUITS TO EXISTING 210MDP "TOP HAT" PULL BOX. REMOVE NEUTRAL/GROUND BOND ONCE NEW SERVICE DISCONNECT IS INSTALLED.

13 PROVIDE 36"X36"X6"D/P. NEMA 1 PULL BOX (SIZE PER NEC 314.70) IN CRAWL SPACE BELOW. INTERCEPT EXISTING 5KV FEEDER CONDUIT AND UTILIZE FOR NEW 15KV FEEDER BACK TO PMSG210. DO NOT SPLICE EXISTING PRIMARY FEEDER (REPLACE IN ENTIRETY). PAINT PULL BOX PER SPECIFICATIONS AND LABEL "5KV-DANGER HIGH VOLTAGE".

14 EXISTING PRIMARY CONDUIT.

15 PROVIDE NEW 120V-20A/1P BREAKER IN EXISTING PANEL FOR NEW WORK.

16 LOW VOLTAGE TRANSFORMER FOR SENSOR OPERATED FLUSH VALVES PROVIDED BY DIVISION 22.

17 PROVIDE RECESSED 4" SQ.J-BOX AND 0.75"C. TO ABOVE ACCESSIBLE CEILING FOR LOW VOLTAGE WIRING BY DIVISION 22. COVER PLATE BY DIVISION 22. COORDINATE EXACT M.H. WITH DIVISION 22. PRIOR TO ROUGH-IN.

18 LOW VOLTAGE TRANSFORMER ABOVE LAY-IN CEILING FOR SENSOR OPERATED FAUCET PROVIDED BY DIVISION 22.

19 PROVIDE RECESSED SINGLE GANG J-BOX AND 0.75"C. TO ABOVE ACCESSIBLE CEILING FOR LOW VOLTAGE WIRING BY DIVISION 22. PROVIDE GROUMMETTED OPENING. COORDINATE EXACT M.H. WITH DIVISION 22. PRIOR TO ROUGH-IN.

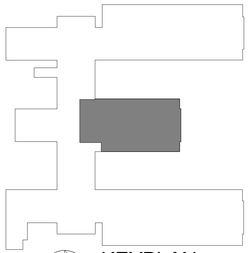
Panel: NGD

Location: Elec. Clos. G027 **Mounting:** Surface **A.I.C. Rating:** 35k AIC
Supply From: **Enclosure:** Type 1 **Mains Type:** M.L.O.
Voltage: 120/208 Wye-3PH-4W **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	COPIER	20 A	1	360 VA	1080					1	20 A	Receptacle	2
3	Receptacle	20 A	1			1080	1080			1	20 A	Receptacle	4
5	Receptacle	20 A	1					1080	1080	1	20 A	Receptacle	6
7	Receptacle	20 A	1	1080	1080					1	20 A	Receptacle	8
9	Receptacle	20 A	1			900 VA	1080			1	20 A	Receptacle	10
11	Receptacle	20 A	1					1080	540 VA	1	20 A	Receptacle	12
13	Receptacle	20 A	1	1080	1080					1	20 A	Receptacle	14
15	Receptacle	20 A	1			1080	1080			1	20 A	Receptacle	16
17	Receptacle	20 A	1					1080	720 VA	1	20 A	Receptacle	18
19	Receptacle	20 A	1	720 VA	720 VA					1	20 A	Receptacle	20
21	Receptacle	20 A	1			1080	540 VA			1	20 A	Receptacle	22
23	Lighting	20 A	1					867 VA	1289	1	20 A	Lighting	24
25	Lighting Open	20 A	1	1088	0 VA					1	0 A	Spare	26
27	Spare	0 A	1			0 VA	0 VA			1	0 A	Spare	28
29	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	30
31	Spare	0 A	1	0 VA	0 VA					1	0 A	Spare	32
33	Spare	0 A	1			0 VA	0 VA			1	0 A	Spare	34
35	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	36
37	Spare	0 A	1	0 VA	0 VA					1	0 A	Spare	38
39	Spare	0 A	1			0 VA	0 VA			1	0 A	Spare	40
41	Spare	0 A	1					0 VA	0 VA	1	0 A	Spare	42
	Total Load:			8.29 kVA		7.92 kVA		7.74 kVA					

Notes:

TOTAL CONNECTED		ESTIMATED DEMAND
23.94 kVA		18.3 KVAD (51A)



N KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL BASEMENT PLAN - POWER

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 Checked: MSG Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E3

Dwg. 36 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

DETAIL NOTES

1 AREA OF RESCUE 4 ZONE ANNUNCIATOR/MASTER CONTROL PANEL WITH TWO WAY VOICE INTERCOM, ALTERNATE ACTION SWITCH, TWO INTERNAL LED INDICATORS FOR EACH ZONE (INTERCOM ON AND ZONE CALL), ONE YELLOW SUPERVISORY LED, AUDIBLE ALARM (90 db @ 30cm). ANODIZED ALUMINUM CONSTRUCTION WITH SILK SCREENED DESIGNATIONS.

2 120V TO 12/24V POWER SUPPLY WITH SHORT CIRCUIT PROTECTION AND TROUBLE INDICATOR LIGHTS.

3 TELEPHONE ACCESS KIT WITH AUTO DIALER, DIGITAL ANNOUNCER, MESSEGE PLAYER (UP TO ONE MINUTE) AND UP TO TWO INPUTS. DIALER SHALL BE PROGRAMMED TO CALL POLICE.

4 FULLY SUPERVISED VANDAL RESISTANT CALL STATION WITH TWO WAY VOICE INTERCOM, MOMENTARY CALL IN FLUSH PUSHBUTTON, LED AND AUDIBLE ALARM (70 db @ 30cm). STAINLESS STEEL FACEPLATE AND TAMPERPROOF SCREWS.

5 WIRING IN 0.75°C. PER MANUFACTURER.

6 VOICE JACK. REFER TO FLOOR PLANS.

7 FUTURE DEVICES AND WIRING.

2 AREA OF RESCUE SYSTEM DETAIL

SCALE: 1/8" = 1'-0"

GENERAL NOTES

A EMT CONDUIT SHALL BE 0.75" MINIMUM.

B CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

C INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.

D REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

E REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

F REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.

NOTES

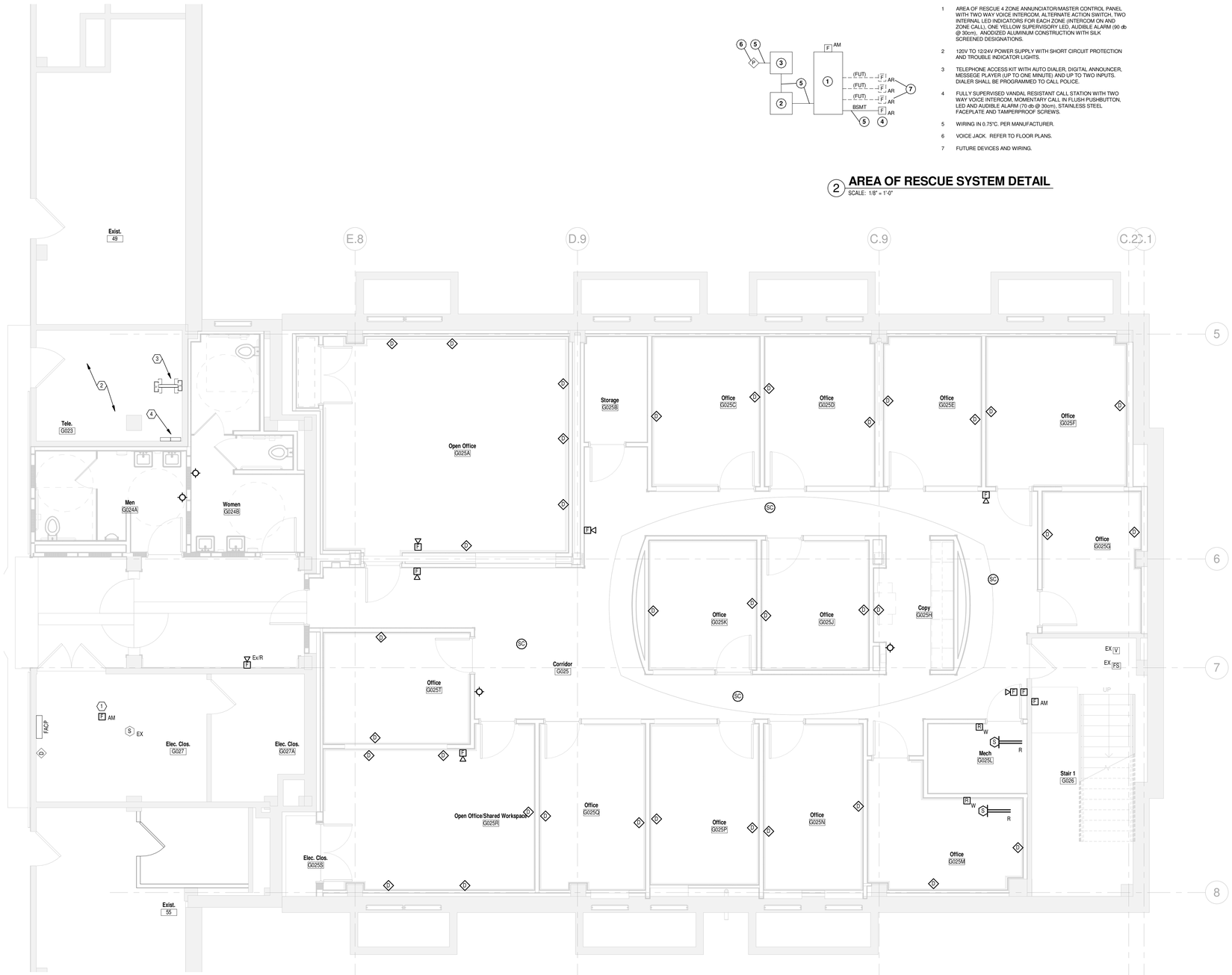
1 INSTALL AREA OF REFUGE MASTER STATION AT NURSES' STATION LOCATED ON FIRST FLOOR ABOVE.

2 EXISTING SIGNALS CLOSET.

3 EXISTING DATA RACK. RE-USE EXISTING PATCH PANELS AND PROVIDE NEW

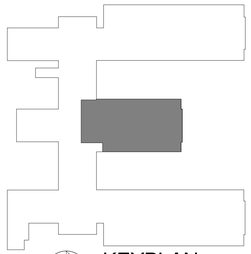
4 PATCH PANELS (1-BLUE/1-YELLOW) TO SERVE NEW DATA DROPS.

5 EXISTING 110 WALL FIELD. PROVIDE NEW 110 BLOCKS FOR NEW VOICE OUTLETS.



PARTIAL BASEMENT PLAN - SIGNALS

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



KEYPLAN

Scale: N.T.S.

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: PARTIAL BASEMENT PLAN - SIGNALS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E4

Dwg. 37 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A EMT CONDUIT SHALL BE 0.75" MINIMUM.

B CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

C WITHIN UNFINISHED SPACES, ALL CONDUIT SHALL BE CONCEALED WITHIN CONCRETE BLOCK WALL. SURFACE MOUNTED RACEWAY SHALL NOT BE PERMITTED. COORDINATE CLOSELY WITH DIV 1 PRIOR TO FOUNDATION WALL CONCRETE POURING.

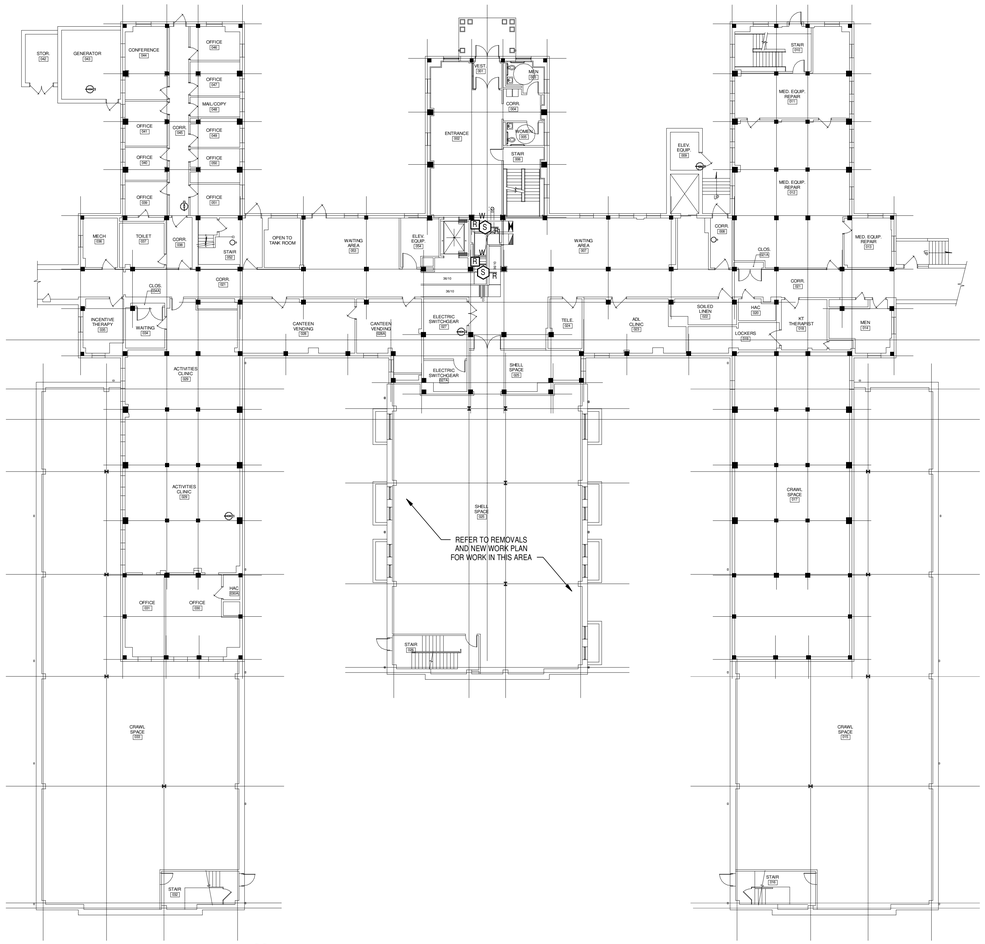
D MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

E INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.

F REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.

G REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.

H REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF DEVICES MOUNTED ABOVE OR BELOW CASEWORK, FURNITURE, LAVATORIES, ETC.



N OVERALL GROUND FLOOR PLAN-SIGNALS
Scale: 1/16" = 1'-0"

N OVERALL FIRST FLOOR PLAN - SIGNALS
Scale: 1/16" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

CONSULTANTS:

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Drawing Title: OVERALL BUILDING SYSTEMS PLANS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E5
Dwg. 38 of 39

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL NOTES

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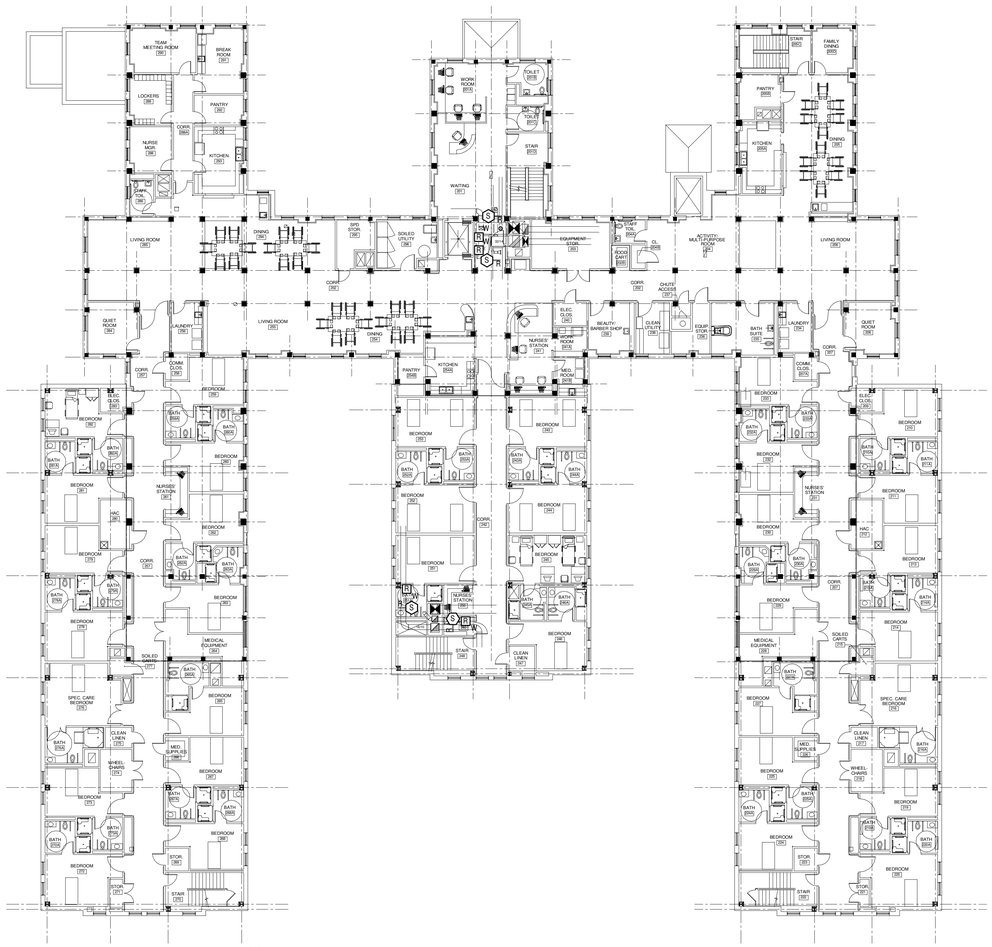
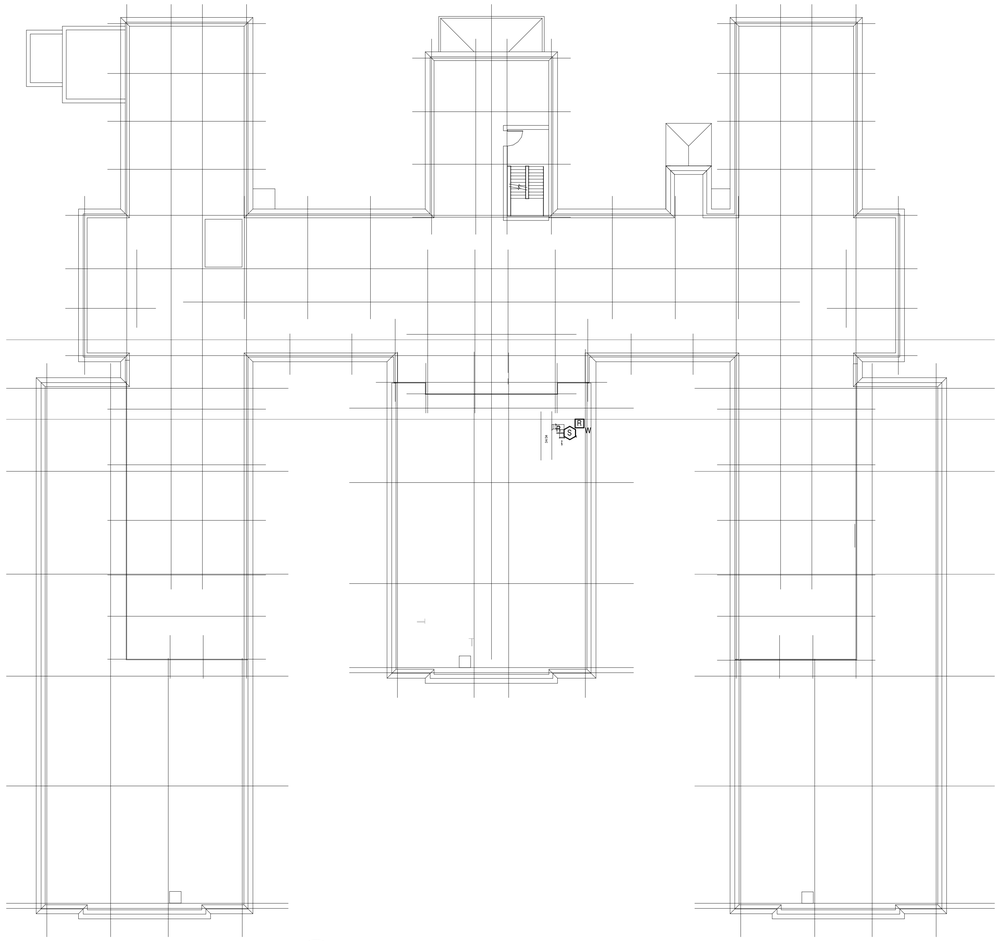


N OVERALL SECOND FLOOR PLAN - SIGNALS

Scale: 1/16" = 1'-0"



N OVERALL ATTIC PLAN - SIGNALS

Scale: 1/16" = 1'-0"

FULLY SPRINKLERED

Revisions	Date

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Drawing Title: OVERALL BUILDING SYSTEMS PLANS

Approved: Project Director

Project Title: RENOVATE GROUND FLOOR B210

Location: Chillicothe, Ohio

Date: 06/29/2012 | Checked: MSG | Drawn: JAS

Project No. VA Project No. 538-13-104 JPA Project No. 12001.00

Building Number: 210

Drawing Number: 210-E6

Dwg. 39 of 39

Office of Construction and Facilities Management

Department of Veterans Affairs