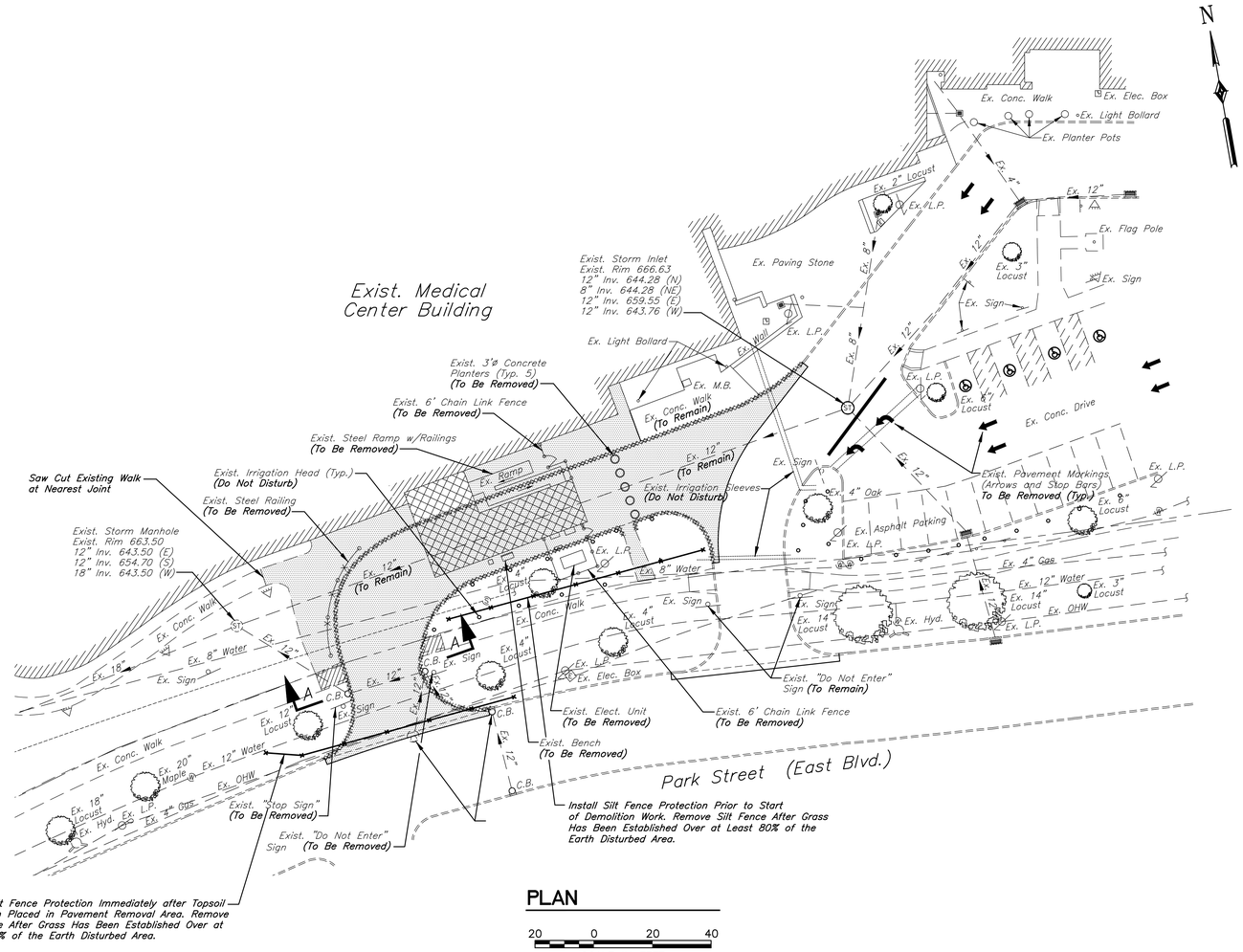
LEGEND:

- Existing Building to be Removed
- Existing Concrete Curb to be Removed
- Existing Concrete Pavement/Walk to be Removed
- Existing Concrete Curb Ramps to be Removed

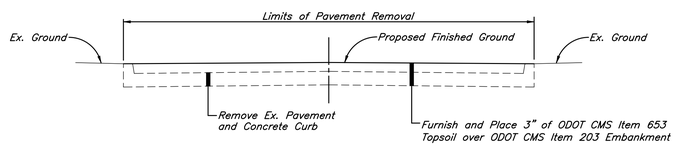
NOTES:

1. The existing topographic data and underground utilities shown were located from survey and various avaivable record drawings. All items intended to be removed including any underground utilities not shown for any reason, shall be verified and removed by the Contractor at no additional cost to the owner.
2. It is the Contractors responsibility to field verify all noted conditions and to coordinate with the Architect and/or Engineer any required changes to these plans.
3. See Architectural Plans for Demolition Specifications.
4. See Landscape plans for designation of protection or removal of all existing plant material.
5. Dispose of all demolished materials per specifications.
6. Where only a portion of an existing walk, pavement, etc. is to be removed, a neat joint shall be sawed or otherwise cut at the removal limit if it does not occur at an exiting joint.
7. Existing Pavement composition is unknown. It is the contractors responsibility to included in the respective bid items all pavement removals, excavations and embankment construction to conform to the proposed pavement sections shown on the plans. There will be no additional cost to the owner per this bid item.
8. Embankment construction required to fill voids and cavaties created as part of the demolition and as required to establish finished grade shall be in accordance with the Ohio Department of Transportation (ODOT) Construction and Material Specifications (CMS) Item 203. Spread all embankment material in successive horizontal loose lifts, not to exceed 8 inches. Compact all embankment material lifts to the specified density and moisture controls in ODOT CMS 203.07. Suitable embankment material shall consist of naturals soils that conform to ODOT CMS Item 703.16 A and will be limited to the following ODOT Soil Classifications; A-6-a (Silt and Clay), A-6-b (Silty Clay) and A-7-6 (Clay) unless otherwise approved by the Owner and geotechnical engineer. Slag material, brick, shale, rock, concrete, asphalt and other construction material will not be permitted for use as embankment material.
9. Contractor shall maintain positive drainage during site demolition.



PLAN

20 0 20 40
SCALE IN FEET

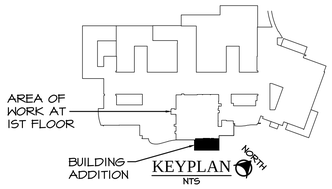


SECTION A-A

NO SCALE

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
CALL...800-362-2764 (Toll Free)
OHIO UTILITIES
PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

EUTHENICS INC.
CONSULTING ENGINEERS
8225 MOHAWK DR., STRONGSVILLE, OHIO 44136
PHONE: (440) 380-1555 – FAX: (440) 380-1544

STATE OF OHIO
ALAN R. PIATAK
62288
REGISTERED
PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

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111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0908 f

FREDRICK, FREDRICK & HELLER
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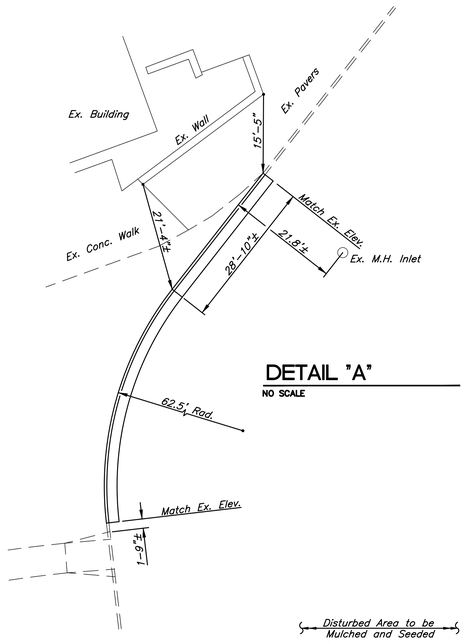
[illegible]
TEL: (440) 366-0656
FAX: (440) 366-0692

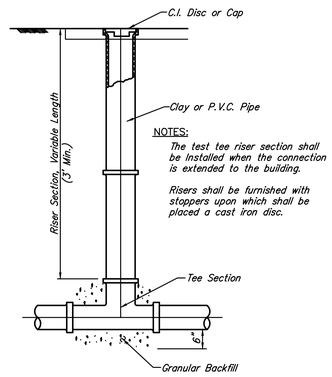
Drawing Title: DEMOLITION PLAN	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: VA-541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: ARP / Drawn By: VMB	Drawing Number: 1-C1-1

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



DETAIL "A"
NO SCALE

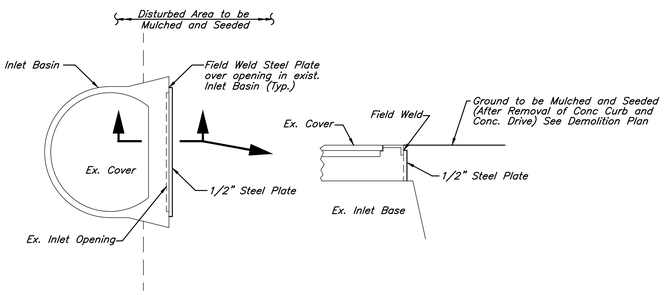


NOTES:

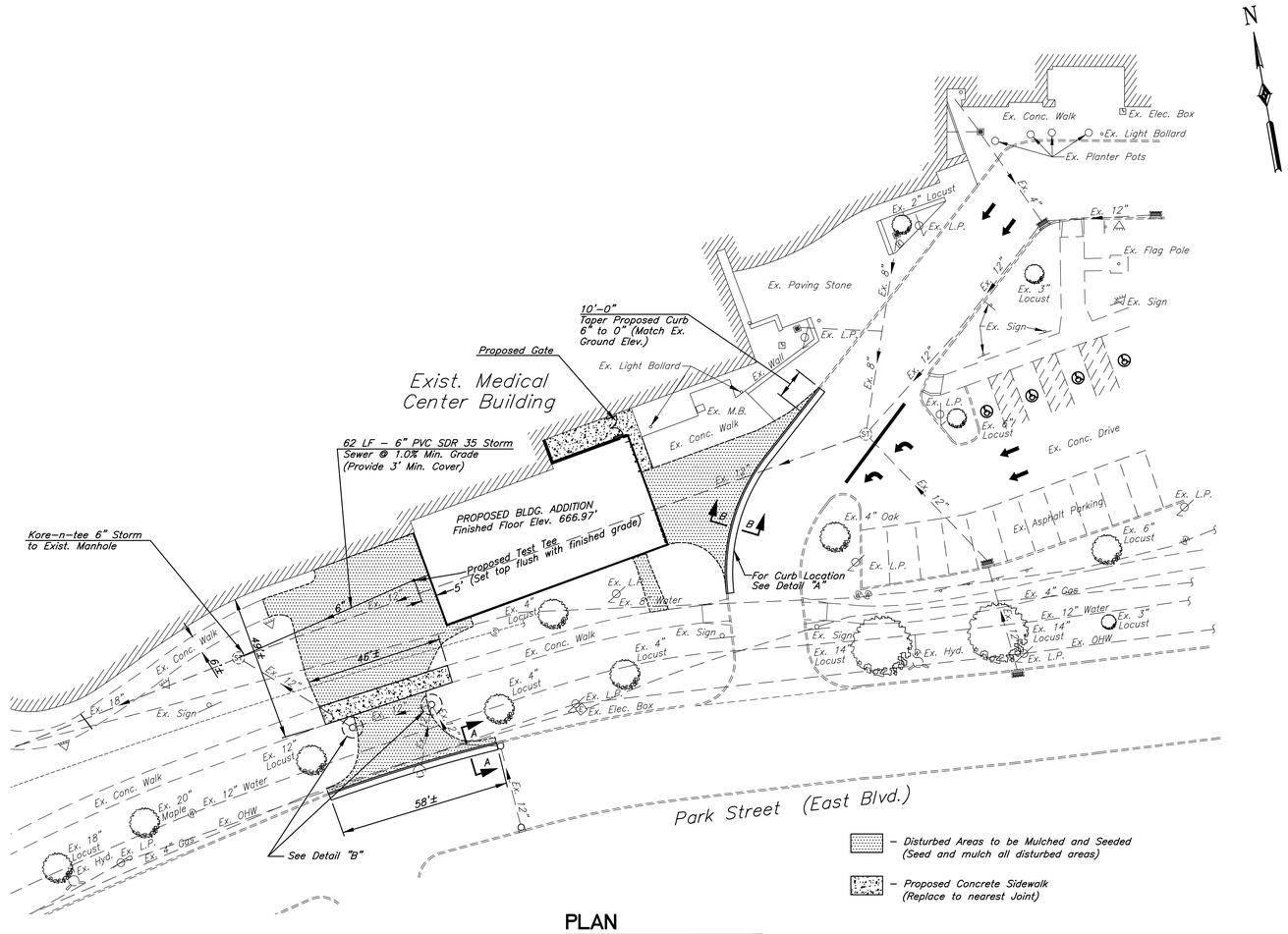
The test tee riser section shall be installed when the connection is extended to the building.

Risers shall be furnished with stoppers upon which shall be placed a cast iron disc.

6" x 6" TEST TEE
NO SCALE



DETAIL "B"
NO SCALE



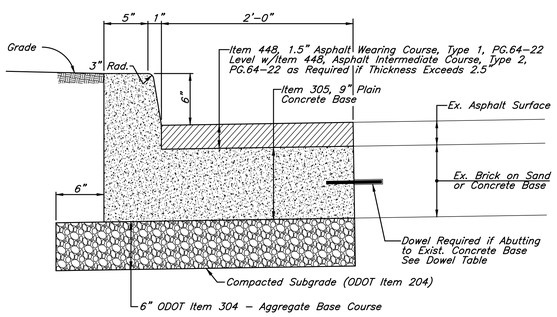
– Disturbed Areas to be Mulched and Seeded (Seed and mulch all disturbed areas)

– Proposed Concrete Sidewalk (Replace to nearest Joint)

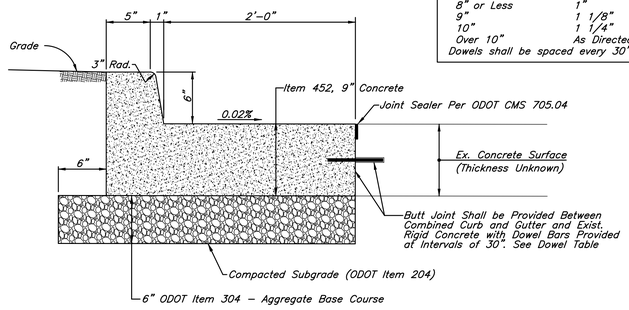
PLAN
20 0 20 40
SCALE IN FEET

NOTES:

1. All construction shall be in accordance with the City of Cleveland and/or the latest edition of "The State of Ohio Department of Transportation Construction and Materials Specifications".
2. It is the Contractors responsibility to field verify all noted conditions and to coordinate with the Architect and/or Engineer any required changes to these plans.
3. See Demolition Plan.
4. Contractor shall finish grade this site to provide positive drainage.
5. Seeding and mulching shall conform to ODOT CMS Item 659 with Class 1 Mix Type.
6. See Demolition Plan for approximate location of irrigation heads and irrigation sleeves.



SECTION A-A
NO SCALE

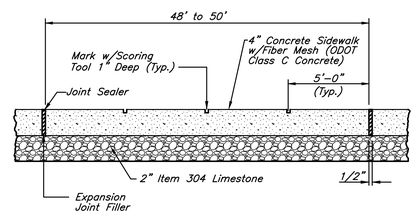


Dowel Table

Pavement Thickness	Diameter of Dowels
8" or Less	1"
9"	1 1/8"
10"	1 1/4"
Over 10"	As Directed

Dowels shall be spaced every 30"

SECTION B-B
NO SCALE



CONCRETE SIDEWALK DETAIL
NO SCALE

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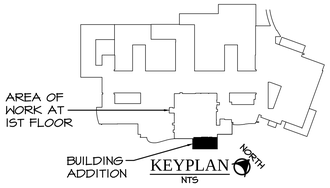

FOR CONSTRUCTION

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Revisions:	Date

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BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9966
FAX. (440) 546-0660

Drawing Title: SITE PLAN	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: VA-541-364
Approved: Project Director			Building Number
	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-C1-2
	Date: 03-16-12	Checked By: ARP	Drawn By: VMB

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

GENERAL CONDITIONS

1. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE EXISTING BUILDING DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT THE NEW CONSTRUCTION.
3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
4. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
6. THE INFORMATION SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS IS BASED ON DRAWINGS BY DALTON, van DIJK, JOHNSON & PARTNERS DATED JULY 1987. THE CONTRACTOR IS TO NOTIFY THE A/E IF CONDITIONS DIFFER FROM THOSE STATED ARE UNCOVERED IN THE DEMOLITION PROCESS
7. ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER OR THE A/E AND SUBMITTED TO THE A/E FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE PARTY MAKING THE CHANGE TO REPLACE OR REPAIR THE CONDITION AS DIRECTED BY THE A/E.
8. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. COORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO STRUCTURAL WORK. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
10. CONTRACTOR IS RESPONSIBLE TO UNCOVER AND VISUALLY FIELD VERIFY THE EXISTING CONSTRUCTION PRIOR TO THE START OF ANY WORK AFFECTING THE EXISTING STRUCTURE. CONTRACTOR IS TO REPORT ANY CHANGES OR DISCREPANCIES FROM THOSE SHOWN TO THE A/E.
11. THE INFORMATION SHOWN ON THE ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DOCUMENTS IS BASED ON ASSUMPTIONS OF THE EXISTING BUILDING CONSTRUCTION. ORIGINAL CONSTRUCTION DOCUMENTS WERE NOT AVAILABLE FOR THE PREPARATION OF THESE DOCUMENTS. THE CONTRACTOR IS TO NOTIFY THE A/E IF CONDITIONS DIFFERING FROM THOSE STATED ARE UNCOVERED IN THE DEMOLITION PROCESS

DESIGN CRITERIA

1. STRUCTURAL DESIGN STANDARDS:
   OHIO BUILDING CODE (CURRENT EDITION)
   BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)
   SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)
   AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (ASD)
   NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)
   BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530)
2. FLOOR LIVE LOADS:
   SURGERY FLOOR = 100 PSF
   SLAB ON GRADE = 100 PSF
   STORAGE = 100 PSF
3. ROOF LIVE LOAD:
   MINIMUM = 30 PSF
   SNOW = 30 PSF+DRIFT (PER ASCE 7)
   Pg = 30 PSF
   Ce = 1.0 (EXPOSURE B, PARTIALLY EXPOSED)
   Ct = 1.0 (R>25)
4. WIND LOAD:
   BASIC WIND SPEED (3 SEC GUST) = 90 MPH
   Iw = 1.15 (CATEGORY II), EXPOSURE B
   GCpi = (ENCLOSED, H LESS THAN 60 FT., EXPOSURE B)
   DESIGN WIND PRESSURE FOR EXTERIOR COMPONENT & CLADDING: REFER TO OBC TABLE 1609.6.2.1(2) AND USE H=30 FT AND EXPOSURE B, ADJUSTMENT COEFFICIENT = 1.00
5. EARTHQUAKE LOAD:
   IE = 1.25 (SEISMIC USE GROUP III)
   SDS = 0.21g
   SD1 = 0.083g
   SITE CLASS = D (STIFF SOIL PROFILE)
   BASIC SEISMIC FORCE RESISTING RESISTANCE: ORDINARY REINFORCED CONCRETE MOMENT FRAMES
   EQUIVALENT LATERAL FORCE PROCEDUREZ
   BASE SHEAR (V) = 78 KIPS

FOUNDATIONS

1. ASSUMED DESIGN SOIL BEARING PRESSURE SHALL BE 11,000 PSF AS RECOMMENDED IN 1987 BUILDING ADDITION. NO GEOTECHINCAL INVESTIGATION WAS PERFORMED FOR THIS ADDITION.
2. NOTIFY THE A/E AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS.
3. SET FOUNDATIONS AT ELEVATIONS SHOWN, OR ON FIRM UNDISTURBED MATERIAL OF DESIGN BEARING CAPACITY, WHICHEVER IS LOWER. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT EACH FOOTING PLACED IS BEARING ON ADEQUATE MATERIAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, OR BRACING OF EXISTING STRUCTURES.
5. STEP FOOTINGS AT A RATIO OF ONE VERTICAL TO TWO HORIZONTAL, WITH A MAXIMUM VERTICAL STEP OF 2-0", UNLESS NOTED OTHERWISE.
6. EXCAVATION AND COMPACTION:
   A. CARE SHALL BE TAKEN TO NOT DISTURB THE BOTTOM OF THE EXCAVATION. EXCAVATION TO FINAL GRADE SHALL NOT BE MADE UNTIL JUST PRIOR TO PLACING CONCRETE.
   B. BACKFILL AND FILL SHALL BE PLACED IN LIFTS OF 8" MAXIMUM LOOSE DEPTH. EACH LIFT SHALL BE COMPACTED WITH A POWER VIBRATING COMPACTOR OR SIMILAR EQUIPMENT TO ASSURE MAXIMUM COMPACTION OF THE MATERIAL.
   C. COMPACTION SHALL BE NOT LESS THAN 98% OF MAXIMUM DENSITY ACCORDING TO ASTM D698 FOR COHESIVE MATERIAL. COHESIONLESS FILL FOR DRAINAGE SHALL BE COMPACTED TO 96% OF MAXIMUM DENSITY ACCORDING TO ASTM D-4253 AND D-4254.
   D. SETTLEMENT OR WASHING OUT THAT OCCURS IN GRADED OR BACKFILLED AREAS PRIOR TO ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES.
   E. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
   F. ALL DRILLED PIER CONSTRUCTION SHALL CONFORM WITH ACI 336.1 "STANDARD SPECIFICATION FOR THE CONSTRUCTION OF END BEARING DRILLED PIERS.
7. DRILLED PIER DEPTHS ARE TO BE USED FOR BIDDING. FINAL LENGTHS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER TO CONFORM WITH DESIGN LOADS. AFTER COMPLETION OF DRILLED PIER INSTALLATION, THE CONTRACTOR SHALL SUBMIT A REPORT CONTAINING THE FOLLOWING FOR EACH DRILLED PIER:
   A. TOP AND BOTTOM ELEVATIONS
   B. VARIATION OF SHAFT FROM PLUMB
   C. RESULTS OF ANY MATERIAL TESTS
   D. DEPTH OF SOCKET
   E. DATES OF START AND COMPLETION
   F. VOLUME OF CONCRETE
9. EARTHWORK FIELD QUALITY CONTROL:
   A. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT GEOTECHNICAL TESTING LABORATORY TO TEST SUBGRADE SOILS.
   B. AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES.
   C. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, D2167, D2922, AND ASTM D2937, AS APPLICABLE. TEST PER FOLLOWING:
   D. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL LAYER, AT LEAST 1 TEST FOR EVERY 2000 SQ. FT., BUT IN NO CASE LESS THAN 3 TESTS.
   E. FOOTINGS: AT EACH COMPACTED BACKFILL LAYER AT EACH FOOTING OR 1 TEST FOR EACH 100 FT. OF WALL FOOTING.
   F. CONTRACTOR SHALL RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.

CAST-IN-PLACE CONCRETE

1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS. ACI 301-08 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" IS HEREBY MADE A PART OF THESE DRAWINGS. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-08, EXCEPT AS EXPLICITLY MODIFIED HEREIN.
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-08, "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   A. 4000 PSI WITHOUT ENTRAINED AIR FOR ALL CONCRETE WITH A MAXIMUM WATER/CEMENT RATIO = 0.45 UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. 4000 PSI WITH A MAXIMUM WATER/CEMENT RATIO = 0.45 AND WITH AN ENTRAINED AIR ADMIXTURE CONFORMING WITH ASTM C260 FOR ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 6% ± 1%.
   C. 3000 PSI WITH A MAXIMUM WATER/CEMENT RATIO = 0.50 FOR DRILLED PIERS.
4. REINFORCING BARS TO BE ASTM A615, GRADE 60 KSI YIELD STRENGTH.
5. TACK WELDING OF THE REINFORCING SHALL NOT BE PERMITTED.
6. WELDED WIRE FABRIC TO BE ASTM A185, DELIVERED IN FLAT SHEETS.
7. CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED.
8. ALL CONCRETE SHALL CONTAIN A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE A, F OR G.
9. ALUMINUM PIPE SHALL NOT BE USED WITH CONCRETE PUMPS.
10. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1-1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE ALLOWED. ALL WATER MUST BE ADDED AT THE BATCH PLANT.
11. REINFORCING BARS REQUIRED FOR PROPER SUPPORT OF PRINCIPAL REINFORCING SHALL BE DETAILED AND SUPPLIED BY THE CONTRACTOR WHETHER OR NOT THEY ARE INDICATED ON THE DRAWINGS. THE MINIMUM BAR SIZE SHALL BE #4 AND MAXIMUM SPACING SHALL BE 36" ON CENTER. WELDED WIRE FABRIC SHALL NOT BE USED FOR THE SUPPORT OF PRINCIPAL REINFORCING. CONCRETE CUBES OR SAND PLATED CHAIRS SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE.
12. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT MIDSPAN OF BEAMS, SLABS, AND WALLS, AND SHALL BE SUBJECT TO REVIEW BY THE A/E OR OWNER. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, PROVIDE A CONTINUOUS SHEAR KEY IN SLABS AND WALLS, AND A MINIMUM OF TWO CONTINUOUS HORIZONTAL KEYS IN BEAMS AND EACH JOIST. THE MINIMUM KEY SIZE SHALL BE 1-1/2" DEEP BY 1/3 THE DEPTH OR WIDTH OF THE MEMBER. AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS, CONSTRUCTION JOINTS SHALL BE PLACED AT MIDSPAN OF DECK AND MID-WAY BETWEEN BEAMS.
13. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATERSTOPS, UNLESS NOTED OTHERWISE.
14. WHERE REINFORCING IS SHOWN THROUGH CONSTRUCTION JOINTS, MECHANICAL BAR SPLICE DEVICES MAY BE USED.
15. FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH- (3-MM-) WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.
16. ALL LIQUID MEMBRANE CURING COMPOUND MEETING THE REQUIREMENTS OF ASTM C-309 SHALL BE USED ON ALL FORMED SURFACES DESIGNATED TO RECEIVE A "SMOOTH RUBBED FINISH" OR "GROUT CLEANED FINISH".
17. FOR CONCRETE WHICH WILL BE COVERED WITH A CONCRETE TOPPING OR A MATERIAL SET IN A MORTAR BED, BOTH OF WHICH REQUIRE A BOND TO THE FIRST CAST CONCRETE, THE LIQUID MEMBRANE CURING COMPOUND SHALL NOT BE USED, BUT A WATERPROOF SHEET MEMBRANE SHALL BE USED INSTEAD, CONFORMING TO ASTM C171 WITH ALL JOINTS AND EDGES SEALED WITH TAPE TO PREVENT MOISTURE LOSS.
18. COMPLY WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS TO EXPOSED CONCRETE.
19. PROVIDE 6 X 6 - W2.9 X W2.9 WELDED WIRE FABRIC IN ALL SLABS ON GRADE, UNLESS NOTED OTHERWISE.
20. PROVIDE 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC IN ALL TOPPING SLABS, UNLESS NOTED OTHERWISE.
21. PLACE WELDED WIRE FABRIC IN SLABS ON GRADE AT 1/3 THE SLAB THICKNESS DOWN FROM TOP OF SLAB, UNLESS NOTED OTHERWISE.
22. ALL WELDED WIRE FABRIC SHALL BE CHAIRED TO ITS PROPER HEIGHT AND MAINTAINED AT THE PROPER LEVEL THROUGHOUT THE CONCRETE PLACING OPERATION. LIFTING OF WELDED WIRE FABRIC WITH A HOOK DURING CONCRETE PLACEMENT SHALL NOT BE PERMITTED.
23. OPENINGS:
   A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
   B. AT ALL SLAB OPENINGS, THE EQUIVALENT OF REINFORCEMENT INTERRUPTED SHALL BE ADDED ON ALL SIDES OF THE OPENING. ALL OPENINGS SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE SPAN IN EACH DIRECTION UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
   C. OPENINGS SHALL NOT BE PROVIDED IN FRAMED SLABS, BEAMS, JOISTS, COLUMNS, AND WALLS UNLESS SHOWN ON STRUCTURAL DRAWINGS. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE A/E BEFORE PROCEEDING.
   D. PROVIDE ½ NUMBER OF BARS INTERRUPTED PLUS ONE TYPICAL EACH FACE OF OPENING. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2' BEYOND OPENING IN EVERY DIRECTION UNLESS NOTED. OPENINGS NOT EXCEEDING 16" X 16" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
24. CHAMFER EXPOSED EDGES OF CONCRETE 3/4", UNLESS NOTED OTHERWISE.
25. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTH SHALL CONFORM WITH TABLE #1, "MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE".
26. TOP LAYER OF REINFORCING STEEL IN BEAMS, SLABS, JOISTS AND FOOTINGS SHALL BE CONSIDERED TOP BARS REGARDLESS OF THICKNESS OF CONCRETE BELOW THE BARS.
27. FOOTINGS, COLUMNS, WALLS:
   A. DOWELS IN FOOTINGS TO MATCH VERTICAL COLUMN OR WALL REINFORCING.
   B. UNLESS SHOWN OTHERWISE, PROVIDE THE FOLLOWING WALL REINFORCING:

WALL THICKNESS	HORIZONTAL STEEL	VERTICAL STEEL
6" AND 8"	#4 @ 12"	#4 @ 18"
10" AND 12"	#4 @ 16" E.F.	#4 @ 18" E.F.

   C. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LENGTH OF EACH LEG TO BE - 2'-0" UNLESS SHOWN OTHERWISE.
   D. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS AT 24" O.C. FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.
   E. PROVIDE LEAN CONCRETE (fc'= 1500 PSI) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
   F. ALL WALL FOOTING REINFORCING SHALL EXTEND TO CENTERLINE OF COLUMN FOOTINGS.
28. MECHANICAL BAR SPLICE DEVICES THAT PROVIDE A FULL TENSION SPLICE WITH A CAPACITY OF 125 PERCENT OF THE BAR YIELD STRENGTH MAY BE USED. ALL SPLICES SHALL BE VISUALLY INSPECTED BY A QUALIFIED INSPECTOR TO VERIFY THAT THE SPLICE HAS BEEN MADE PROPERLY.
29. PROVIDE A MINIMUM OF 3-#5 TOP REINFORCING BARS IN BEAMS WHERE NO OTHER TOP BARS ARE AVAILABLE FOR SUPPORTING STIRRUPS. ALL SPANDREL AND EDGE BEAMS SHALL HAVE A MINIMUM OF 3-#5 TOP REINFORCING BARS AND CLOSED STIRRUPS CONTINUOUS ACROSS THE SPAN.
30. DETERMINE SIZE AND LOCATION OF MECHANICAL EQUIPMENT, AND MAKE PROVISIONS FOR BOLTS, SLEEVES, PADS, ETC., IN ACCORDANCE WITH THE MANUFACTURER'S CERTIFIED DRAWINGS. THIS WORK SHALL BE COORDINATED WITH THE TRADES INVOLVED.

	3000 PSI CONCRETE				4000 PSI CONCRETE			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
BAR SIZE	LAP	ANCHORAGE	LAP	ANCHORAGE	LAP	ANCHORAGE	LAP	ANCHORAGE
#3	21"	16"	16"	13"	18"	14"	14"	14"
#4	28"	22"	22"	17"	24"	19"	19"	15"
#5	35"	27"	27"	21"	30"	24"	24"	18"
#6	46"	35"	35"	27"	40"	31"	31"	24"
#7	63"	48"	48"	37"	54"	42"	42"	32"
#8	82"	63"	63"	49"	71"	55"	55"	42"
#9	104"	80"	80"	62"	90"	69"	69"	54"
#10	MS	102"	102"	78"	MS	88"	88"	68"
#11	MS	125"	MS	96"	MS	108"	MS	83"
#14	MS	170"	MS	131"	MS	147"	MS	113"
#18	MS	250"	MS	192"	MS	216"	MS	166"

WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE OF THE LARGER BAR.
MS = MECHANICAL SPLICE THAT DEVELOPS 125 PERCENT OF THE BAR YIELD STRENGTH. THE "LENTON REBAR SPLICE" MAY BE USED IN LIEU OF MS.

STRUCTURAL STEEL

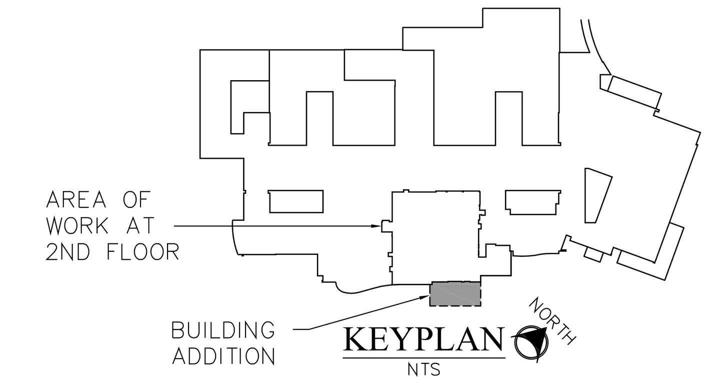
1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION (ALLOWABLE STRENGTH DESIGN), AWS D1.1, AND OTHER CODES, STANDARDS, AND SPECIFICATIONS EXCEPT AS EXPLICITLY MODIFIED HEREIN.
2. CONTRACTOR RESPONSIBLE FOR ALL MISCELLANEOUS/ORNAMENTAL STEEL NOT SHOWN ON STRUCTURALDRAWINGS.
   STRUCTURAL STEEL: ASTM A992, GRADE 50; ROLLED STEEL WIDE FLANGES AND CHANNELS
   ASTM A36; ROLLED STEEL PLATES, SHAPES, BARS, AND RODS
   ASTM A500, GRADE B; TUBING
   ASTM A53, TYPE E OR S, GRADE B; STEEL PIPE
3. BOLTS: 3/4" DIAMETER MINIMUM, UNLESS NOTED OTHERWISE.
   ASTM A325 BEARING TYPE FOR ALL BEAM, COLUMN, AND JOIST CONNECTIONS
   ASTM F1554, GRADE 36 FOR ALL ANCHOR BOLTS
4. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARDS.
5. CONTRACTOR SHALL ASSUME THAT ANY MODIFICATIONS TO EXISTING STEEL FRAMING SHALL REQUIRE AN ABATEMENT OF EXISTING LEAD PAINT IN CONFORMANCE WITH LOCAL CODES.
6. WELDING ELECTRODES SHALL BE E-70XX OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION.
7. COORDINATE STRUCTURAL DRAWINGS WITH ALL DRAWINGS FOR CLEARANCES, ATTACHMENTS, ETC.
8. PROVIDE ANGLE WALL ANCHORS, PER PART 4, AISC MANUAL OF STEEL CONSTRUCTION, FOR BEAMS BEARING ON MASONRY WALLS. ANGLE ANCHORS SHALL BE WELDED TO BEAMS.
9. STEEL BEAMS SHALL BEAR A MINIMUM OF 8" ON MASONRY, UNLESS NOTED OTHERWISE.
10. CONNECTIONS: WELD OR BOLT CONNECTIONS, AS INDICATED:
11. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF THE CITED AISC SPECIFICATION.
   A. WHERE THE REACTION VALUES OF BEAMS ARE NOT SHOWN ON THE DRAWINGS, EACH END CONNECTION SHALL BE DESIGNED TO SUPPORT 55% OF THE TOTAL UNIFORM LOAD CAPACITY DERIVED FROM THE ASD VALUE OF THE TABLES AND FORMULA OF THE MAXIMUM TOTAL UNIFORM LOAD IN PART 3, THIRTEENTH EDITION, OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN MEMBER SIZE, SPAN, AND YIELD STRENGTH.
   B. THE MINIMUM LENGTH OF CONNECTION ANGLES SHALL BE EQUAL TO ONE-HALF THE DEPTH OF THE MEMBER TO BE SUPPORTED.
   C. THE MINIMUM NUMBER OF BOLTS IN BOLTED CONNECTIONS SHALL BE TWO (2) BOLTS.
   D. MINIMUM ¼" FILLET WELD SHALL APPLY UNLESS NOTED OTHERWISE.
   E. MINIMUM SIZE OF CLIP ANGLE SHALL BE 3x3x5/16" UNLESS NOTED OTHERWISE.
12. BEAMS SHALL BE ERECTED STRAIGHT. SWEEPS SHALL BE A MAXIMUM OF 1" MEASURED AT MIDSPAN OF BEAMS.
13. ALL STRUCTURAL STEEL MEMBERS SHALL RECEIVE ONE SHOP COAT OF PRIMER PAINT SSPC-PAINT 15 RED IRON OXIDE EXCEPT THOSE BEAMS TO BE GALVANIZED, OR FIREPROOFED.
14. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO THE EXTERIOR SHALL BE HOT DIP GALVANIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, MASONRY LINTELS AND SHELF ANGLES AND ANY OTHER ITEM INDICATED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

STEEL DECK

1. STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STEEL DECK INSTITUTE SPECIFICATIONS.
2. DECKING SHALL INCLUDE ALL MISCELLANEOUS HANGER TABS, CLOSURE PIECES, POUR STOPS, DRAIN SUMP PANS, REINFORCING AROUND OPENINGS, ETC., REQUIRED TO MAKE A COMPLETE JOB. MISCELLANEOUS ITEMS SHALL BE GALVANIZED.
3. FLOOR DECK SHALL BE GALVANIZED UNLESS NOTED OTHERWISE.
4. PLACE DECK UNITS ON SUPPORTING STEEL FRAMEWORK IN LENGTHS TO SPAN 4 OR MORE SUPPORTS (3 SPANS). LAP ENDS OF ROOF DECK NOT LESS THAN 2". SIDELAP INTERLOCKS SHALL NOT BE STRETCHED OR CONTRACTED. DECK SHALL BEAR A MINIMUM OF 3" ON SUPPORTS.
5. DECK SHALL BE PUDDLE WELDED (5/8" DIA. MINIMUM) TO THE SUPPORTS AT 12" CENTERS MAXIMUM WITH THE FIRST AND LAST RIBS OF EACH SHEET WELDED TO THE SUPPORTS. SIDE LAPS SHALL BE SCREWED WITH #14 SELF_TAPPING SCREWS AT 36" ON CENTER. THE HEADED STUDS IN COMPOSITE CONSTRUCTION MAY BE SUBSTITUTED FOR WELDS.
6. DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
   FLOOR DECK: I = 0.415 IN4 S = 0.360 IN3
10. CEILINGS, AIR DIFFUSERS AND LIGHTS MAY BE HUNG FROM THE FLOOR DECK AFTER THE CONCRETE SLAB HAS REACHED 75% OF ITS DESIGN STRENGTH.

COLD FORMED LIGHT GAGE STEEL FRAMING

1. DESIGN, DETAIL, FABRICATE, AND ERECT STRUCTURAL LIGHT GAGE FRAMING TO WITHSTAND DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS REQUIRED IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUE (AISI) "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. COLD FORMED LIGHT GAGE STEEL MEMBERS, 16 GA. OR THICKER SHALL BE FORMED FROM 50 KSI YIELD STRENGTH STEEL. MEMBERS THINNER THAN 16 GA. SHALL BE FORMED FROM 33 KSI YIELD STRENGTH STEEL.
3. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM A653-94. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED MEETING ASTM A924.
4. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.
5. AXIALLY LOADED STUDS SHALL BE INSTALLED SO THE ENDS POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO BOTH FLANGES OF THE UPPER AND LOWER RUNNER TRACKS.
6. DIAGONAL STRAP BRACING SHALL BE CONNECTED TO ALL CROSSING VERTICAL MEMBERS.



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Revisions:	Date
FINAL DOCUMENTS	03-16-12

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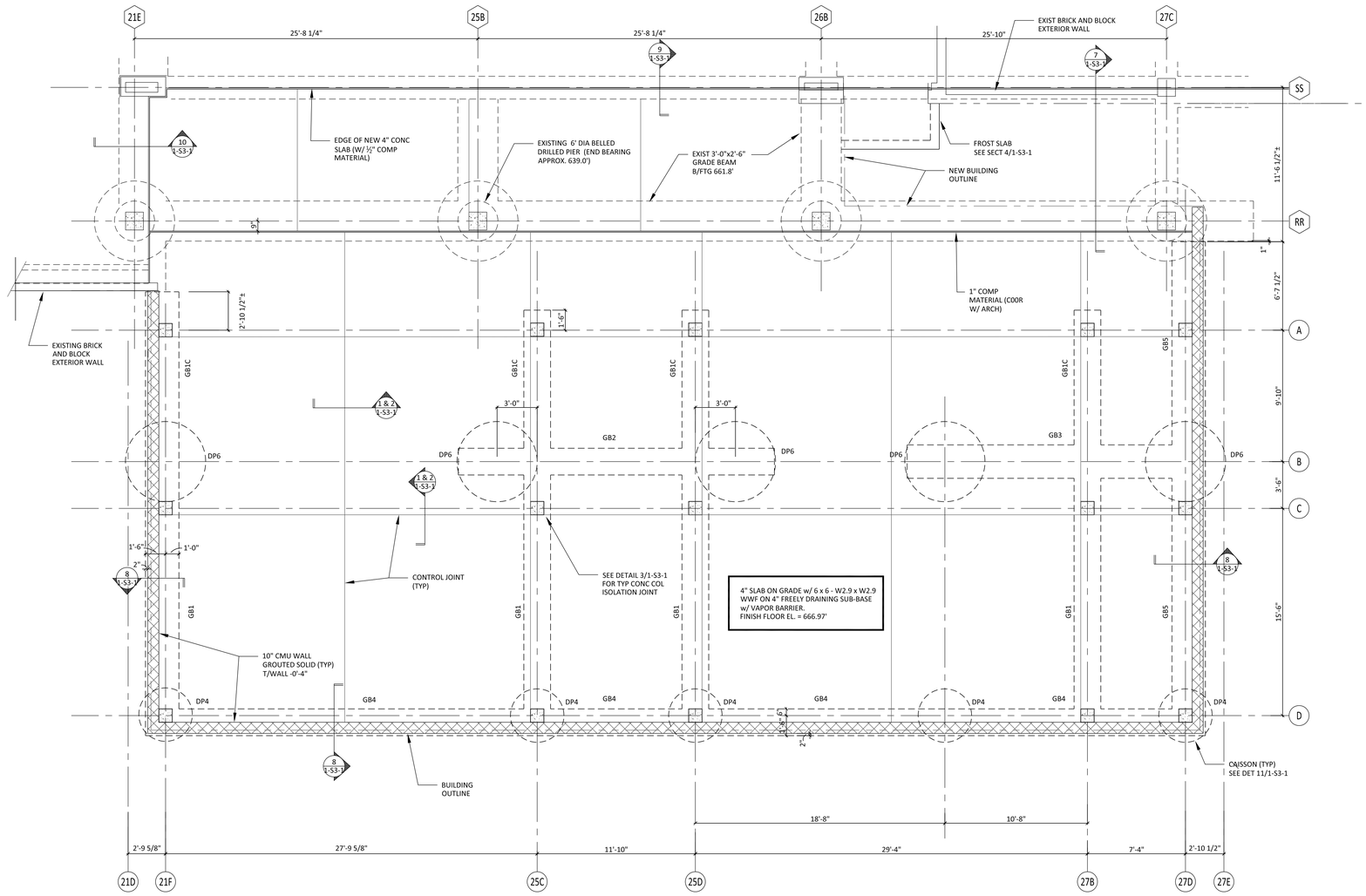
Drawing Title: STRUCTURAL GENERAL NOTES
Approved: Project Director
Project Title: SURGERY ADDITION
Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106
Date: 03-16-12 | Checked By: RJR | Drawn By: JWP
Project Number: 541-364
Building Number:
Drawing Number: 1-S1-0

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



1 1-S1-1 PARTIAL FOUNDATION PLAN

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

PLAN NOTES

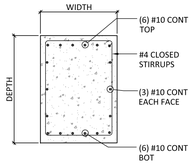
1. ASSUMED ALLOWABLE END BEARING CAPACITY = 11,000 PSF. ELEVATIONS NOTED ON DRILLED PIER SCHEDULE ARE FOR BIDDING ONLY. GEOTECHNICAL ENGINEER TO CONFIRM FINAL DRILLED PIER DEPTH.
2. FINISHED FLOOR SLAB ELEVATION = 666.97' MSL = 0'-0". ELEVATIONS NOTED THUS (+) OR (-) INDIVATES DISTANCE ABOVE OR BELOW ELEVATIONS 0'-0"
3. TOP OF GRADE BEAMS IS 665.97' BELOW FINISHED FLOOR (TYP UNO). TOP OF CAISSONS IS 662.57' BELOW FINISHED FLOOR (TYP UNO).
4. FLOOR SLAB CONSTRUCTION SHALL BE AS NOTED: 4" CONCRETE ON 4" POROUS FILL WITH 6x6 - W2.9xW2.9 WELDED WIRE FABRIC PLACED IN UPPER THIRD OF SLAB. SEE SECTION 6/1-S3-1.
5. SEE 1-S1-0 FOR GENERAL NOTES
6. COORDINATE WITH MECHANICAL AND ARCHITECTURAL DRAWINGS FOR LOCATION OF UNDER FLOOR DRAINS, CONDUITS, DEPRESSIONS, THICKENED SLABS, TRENCHES, ETC.
7. SEE DRAWING 1-S3-3 FOR CONCRETE COLUMN SCHEDULE.

DRILLED PIER SCHEDULE

MARK	DIAMETER (in)	TOP ELEVATION	PROPOSED TIP ELEVATION	VERTICAL REINFORCING	TIES	REMARKS
DP4	48"	662.97'	639.00'	(7)-#10	#4@14" O.C.	
DP6	72"	662.97'	639.00'	(13)-#11	#4@14" O.C.	

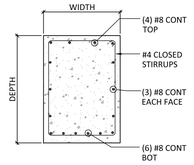
GRADE BEAM/FOOTING SCHEDULE

MARK	DIMENSION		REINFORCEMENT	REMARKS
	WIDTH	DEPTH		
GB1C	2'-0"	3'-6"	SEE DETAIL 'A' THIS DWG	#4 STIRRUPS @ 6" O.C. FULL LENGTH OF CANTILEVER
GB1	2'-0"	3'-6"	SEE DETAIL 'A' THIS DWG	#4 STIRRUPS @ 6" O.C. FOR 5'-0" (EA END) REMAINDER AT 12" O.C.
GB2	2'-6"	3'-6"	SEE DETAIL 'B' THIS DWG	#4 STIRRUPS @ 2" O.C. FOR 4'-0" (EA END) REMAINDER AT 12" O.C.
GB3	2'-6"	3'-6"	SEE DETAIL 'A' THIS DWG	#4 STIRRUPS @ 2" O.C. FOR 4'-0" (EA END) REMAINDER AT 12" O.C.
GB4	2'-0"	3'-6"	SEE DETAIL 'C' THIS DWG	#4 STIRRUPS @ 8" O.C. FOR 3'-0" (EA END) REMAINDER AT 16" O.C.
GB5	2'-6"	3'-6"	SEE DETAIL 'D' THIS DWG	#4 STIRRUPS @ 8" O.C. FOR 3'-0" (EA END) REMAINDER AT 16" O.C.



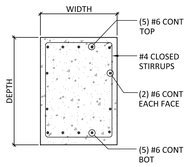
2 1-S1-1 DETAIL 'A'

SCALE: N.T.S.



3 1-S1-1 DETAIL 'B'

SCALE: N.T.S.



4 1-S1-1 DETAIL 'C'

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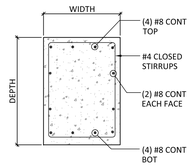
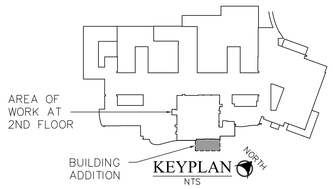


5 1-S1-1 DETAIL 'D'

SCALE: N.T.S.



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Revisions:	Date

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Drawing Title: PARTIAL FOUNDATION PLAN 1/4" = 1'-0"

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: RJR | Drawn By: JWP

Project Number: 541-364

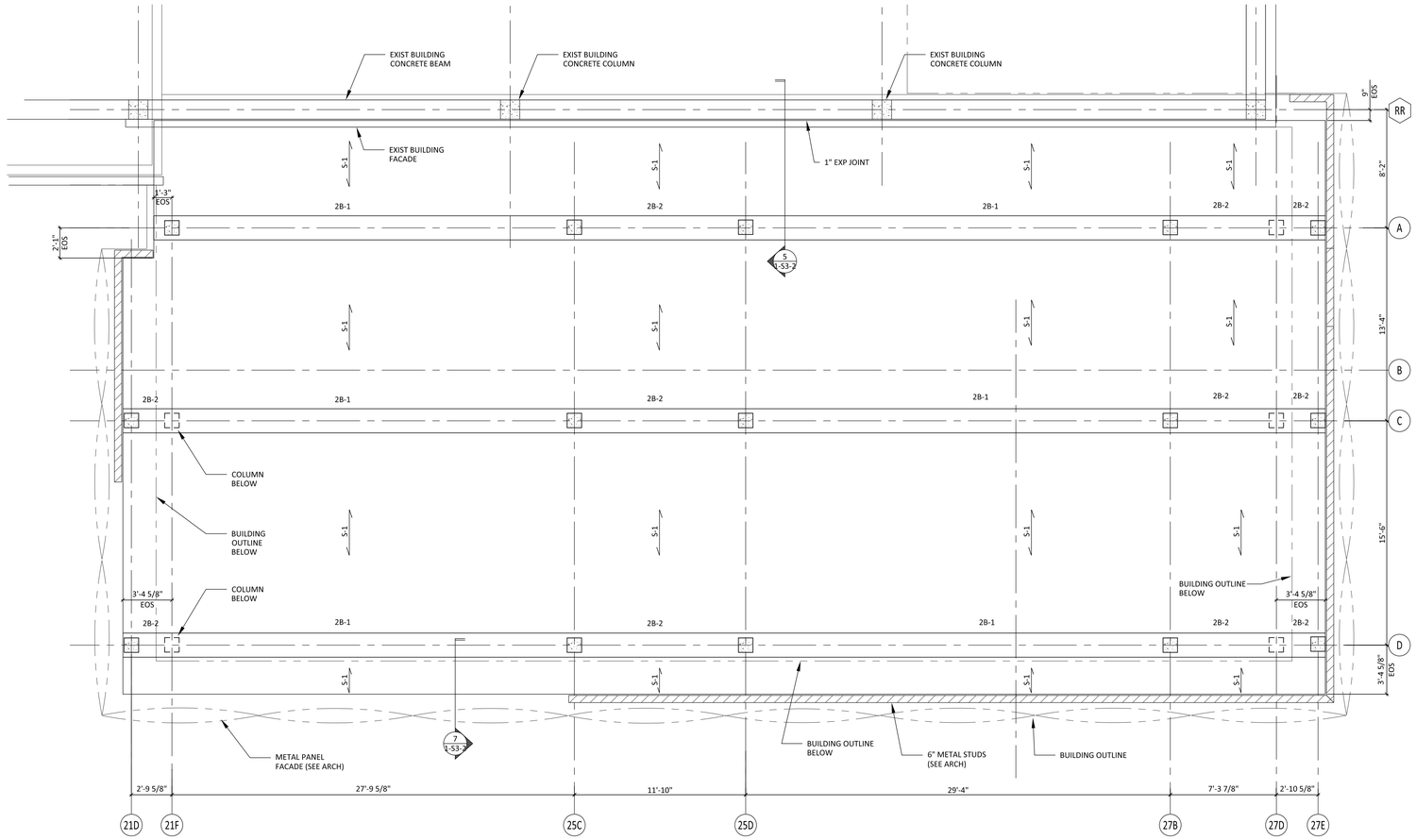
Building Number:

Drawing Number: 1-S1-1

Office of Construction and Facilities Management

Department of Veterans Affairs

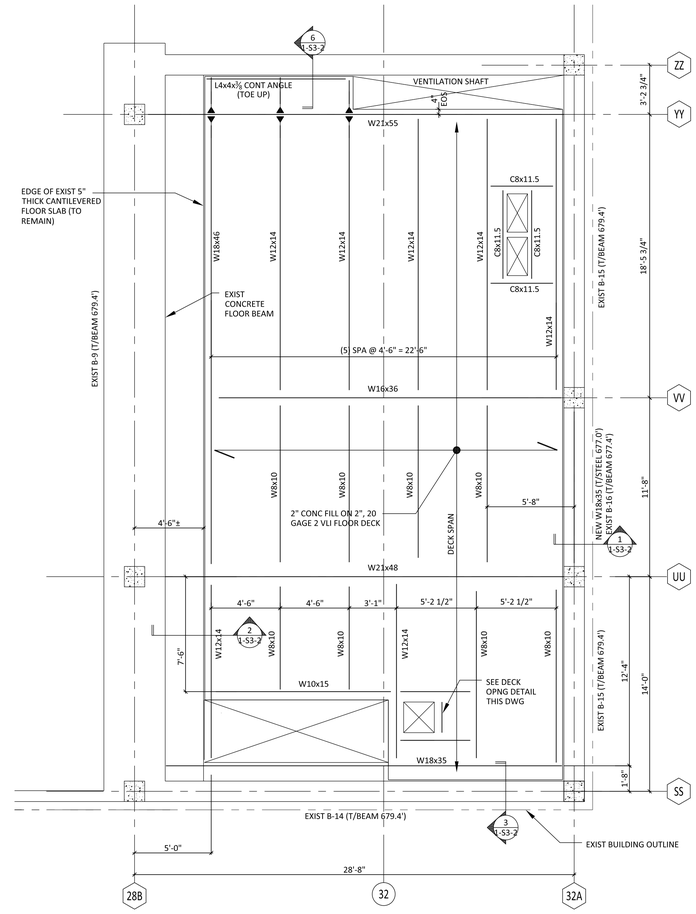
VA FORM 08-6231



PARTIAL SECOND FLOOR FRAMING PLAN

1 / 1-S2-1

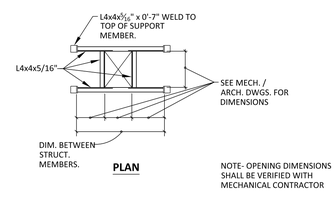
SCALE: 1/4" = 1'-0"



STORAGE ROOM SECOND FLOOR FRAMING PLAN

2 / 1-S2-1

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



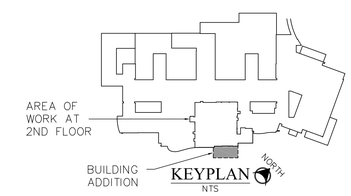
DECK OPEING DETAIL

3 / 1-S2-1

SCALE: N.T.S.

PLAN NOTES

1. SECOND FLOOR FINISHED FLOOR ELEVATION = 679.40'
   SECOND FLOOR T/STEEL = 679.0" (UNO)
2. FLOOR SLAB CONSTRUCTION AT STORAGE INFILL SHALL BE AS NOTED: 2" NORMAL WEIGHT CONCRETE SLAB ON 2" DEEP, 20 GAUGE COMPOSITE STEEL DECK. (4" TOTAL) U.N.O.
3. BEAM CONNECTIONS SHALL BE DESIGNED FOR END REACTIONS AS DEFINED ON P. 4-9 OF THE AISC MANUAL 8TH EDITION, UNLESS NOTED OTHERWISE.
4. ALL BEAMS SHALL BE A992 WITH MIN FY= 50 KSI
5. SEE 1-S1-0 FOR GENERAL NOTES.
6. SEE DRAWING 1-S3-3 FOR SLAB, BEAM AND COLUMN SCHEDULES.
7. COORDINATE WITH MECHANICAL AND ARCHITECTURAL DRAWINGS FOR FLOOR PENETRATIONS THAT MAY NOT BE REFLECTED ON THIS DRAWING.
8. SEE DRAWING 1-S3-2 FOR TYPICAL CONCRETE SLAB OPENING DETAILS.
9. SEE CONCRETE SLAB SCHEDULE ON DRAWING 1-S3-3.



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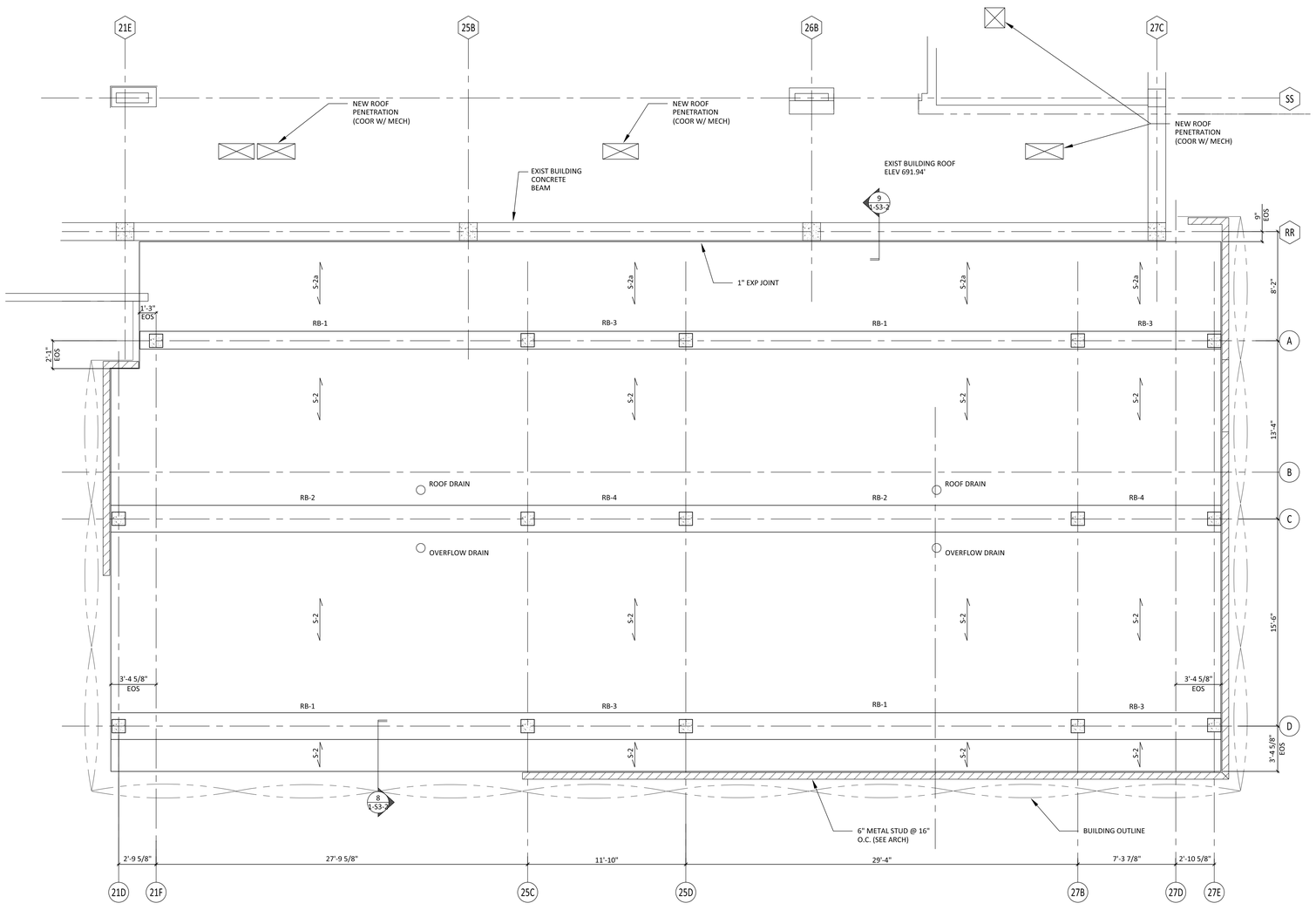
Drawing Title: PARTIAL SECOND FLOOR FRAMING PLAN 1/4" = 1'-0"	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number
	Date: 03-16-12	Checked By: RJR / Drawn By: JWP	Drawing Number: 1-S2-1

Office of Construction and Facilities Management

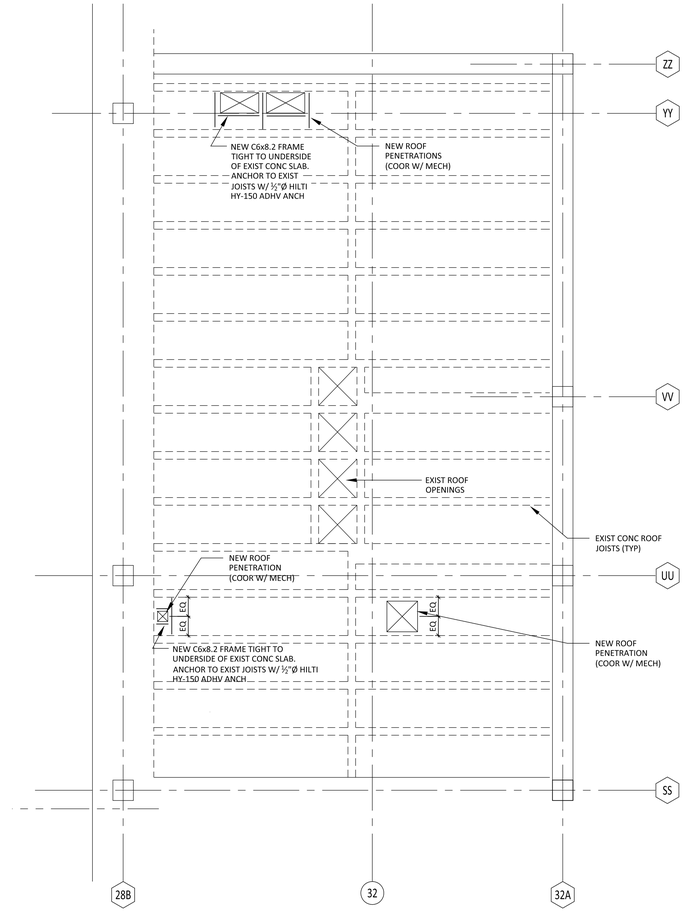
Department of Veterans Affairs

VA FORM 08-6231



1 1-S2-2 PARTIAL ROOF FRAMING PLAN

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

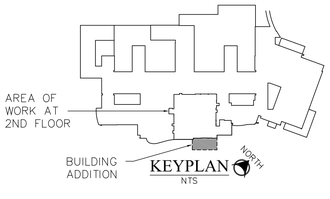


2 1-S2-1 STORAGE ROOM ROOF FLOOR FRAMING PLAN

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

PLAN NOTES

1. TOP OF ROOF SLAB IS @ ELEVATION 696.40' U.N.O.
2. ROOF SLAB TO BE 9" REINFORCED CONCRETE SLAB. SEE SCHEDULE ON DWG 1-S3-3 FOR REINFORCING.
3. SEE DWG 1-S3-3 FOR SLAB, BEAM AND COLUMN SCHEDULES.
4. SEE 1-S1-0 FOR GENERAL NOTES
5. COORDINATE WITH MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ROOF PENETRATIONS THAT MAY NOT BE REFLECTED ON THIS DRAWING.
6. SEE SHEET 1-S3-2 FOR SLAB OPENING DETAILS.



KEYPLAN NTS

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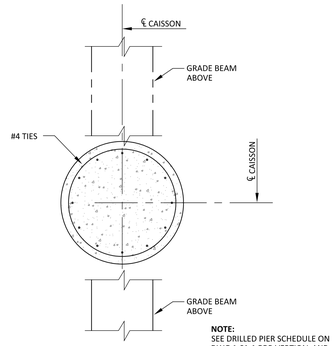
Drawing Title: PARTIAL ROOF FRAMING PLAN 1/4" = 1'-0"	Project Title: SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number	
	Date: 03-16-12 / Checked By: RJR / Drawn By: JWP	Drawing Number: 1-S2-2	Department of Veterans Affairs

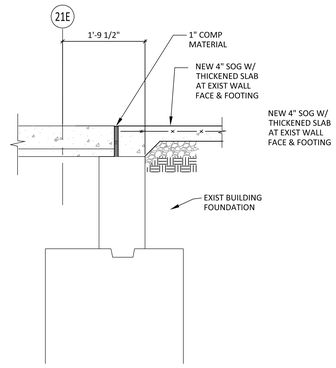
VA FORM 08-6231

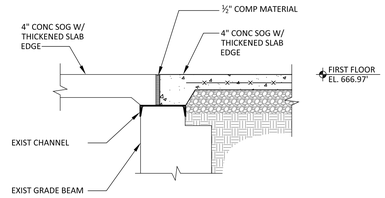


NOTE:
SEE DRILLED PIER SCHEDULE ON DWG 1-S1-1 FOR VERTICAL AND HORIZ REINFORCEMENT

TYPICAL CAISSON REINFORCING

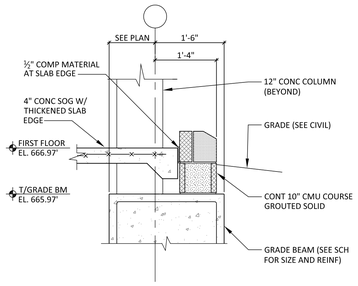
12 / 1-S3-1 SCALE: 1/2" = 1'-0"





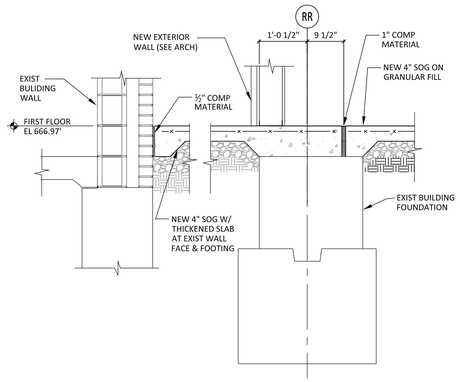
SECTION

9 / 1-S3-1 SCALE: NTS



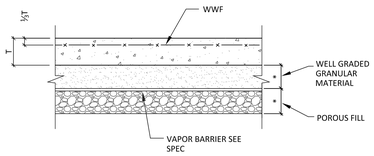
SECTION

8 / 1-S3-1 SCALE: NTS



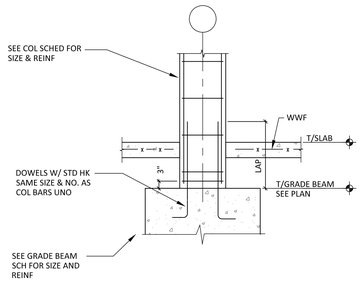
SECTION

7 / 1-S3-1 SCALE: 3/4" = 1'-0"



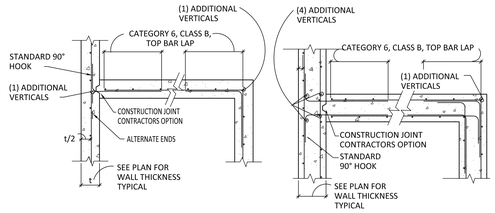
TYPICAL SLAB ON GRADE

6 / 1-S3-1 SCALE: NTS



TYPICAL CONCRETE COLUMN FOOTING

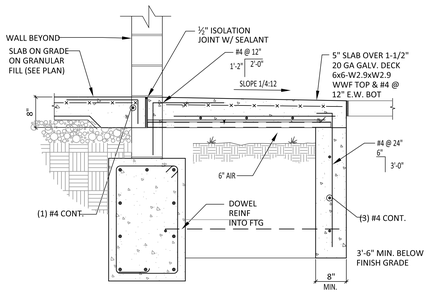
6 / 1-S3-1 SCALE: N.T.S.



NOTE:
1. CATEGORY 6 REFERS TO CATEGORIES FOR USE IN DETERMINING DEVELOPMENT AND SPLICE LENGTHS IN THE CURRENT CRSI HANDBOOK.
2. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

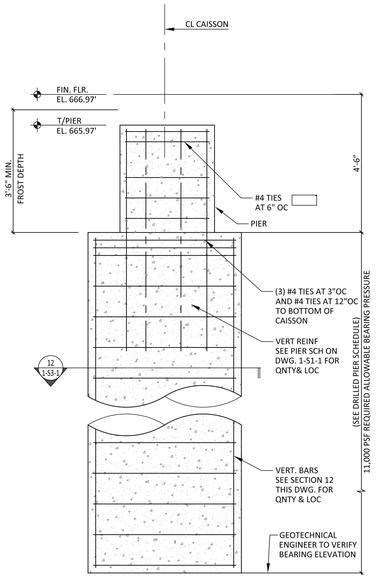
REINFORCING AT WALL CORNERS

5 / 1-S3-1 SCALE: N.T.S.



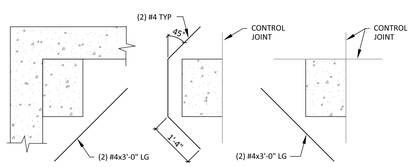
TYPICAL FROST SLAB

4 / 1-S3-1 SCALE: N.T.S.



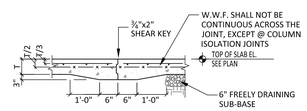
TYPICAL SECTION THRU CAISSON

11 / 1-S3-1 SCALE: 1/2" = 1'-0"



TYPICAL CONCRETE COLUMN ISOLATION JOINT @ S.O.G.

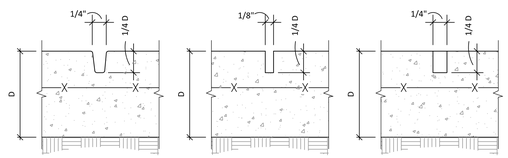
3 / 1-S3-1 SCALE: N.T.S.



NOTES:
1. SEE THE FOUNDATION PLAN FOR SLAB THICKNESS, REINFORCEMENT, AND JOINT LOCATIONS.
2. SLAB SHALL BE PLACED USING "STRIP" OR "LANE" CONSTRUCTION.

SLAB ON GRADE CONSTRUCTION JOINT DETAIL

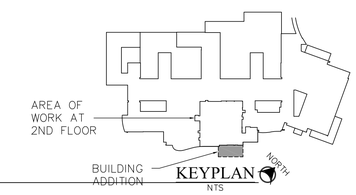
2 / 1-S3-1 SCALE: NTS



NOTE:
CONTROL JOINTS SHALL BE INSTALLED IN SLABS ON GROUND AT A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB THICKNESS (3D) IN INCHES IN EACH DIRECTION (15' MAXIMUM) BY ONE OF THE ABOVE METHODS. MAXIMUM LENGTH OF ANY GROUND POUR TO BE 50'-0" BETWEEN CONSTRUCTION JOINTS. THIS SPACING OF JOINTS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS.

SLAB ON GRADE TYPICAL CONTROL JOINT DETAILS

1 / 1-S3-1 SCALE: NTS



FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

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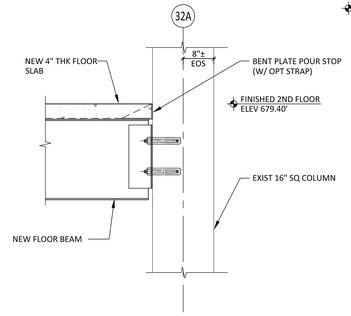
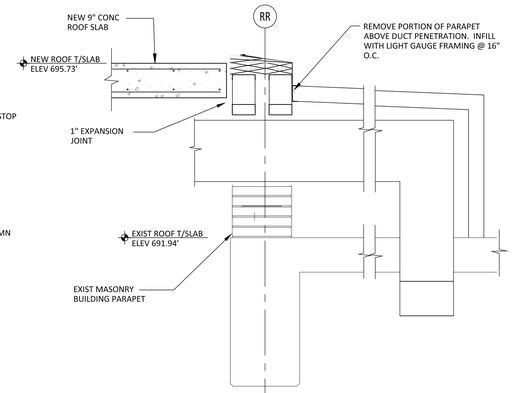
Drawing Title: STRUCTURAL SECTIONS AND DETAILS	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: RJR / Drawn By: JWP	Drawing Number: 1-S3-1

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



10 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



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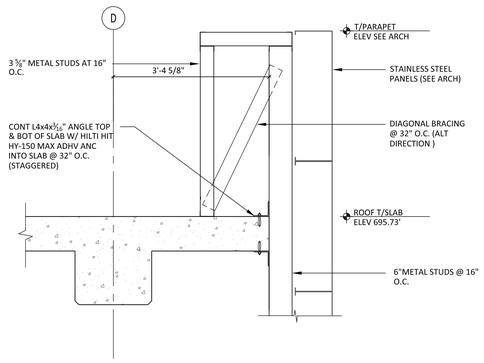
SCALE: 3/4" = 1'-0"



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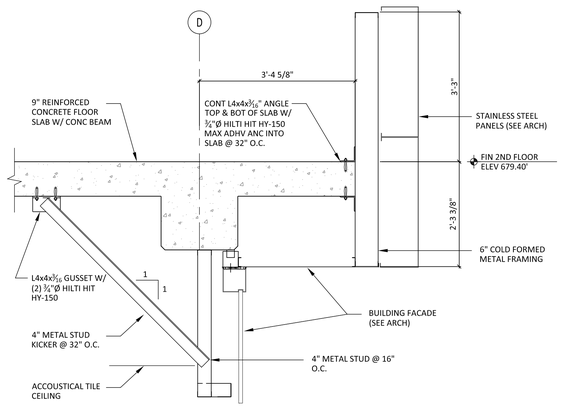
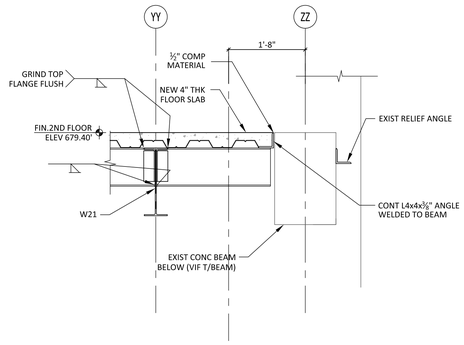
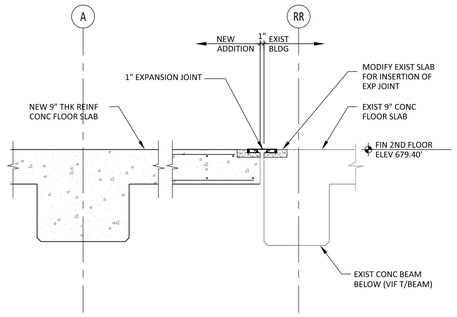
SCALE: 3/4" = 1'-0"



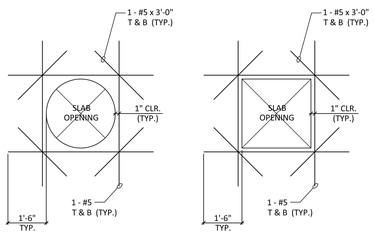
7 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



6 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



5 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"

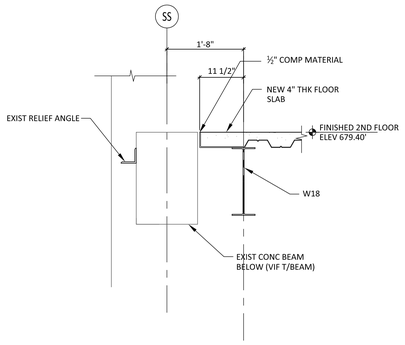


TYPICAL DETAILS FOR REINFORCING AT SLAB OPENINGS

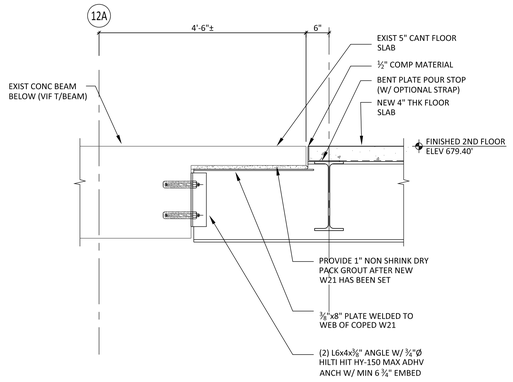
NOTES

1. REINFORCING FOR OPENINGS 10" TO 24".
2. SINGLE OPENINGS SMALLER THAN 10" DO NOT REQUIRE TRIM BARS.

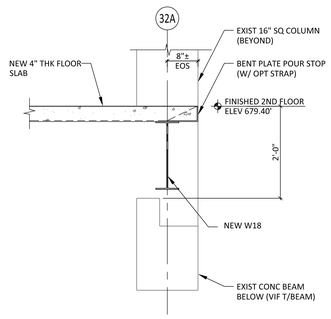
4 1-S3-2 DETAILS
SCALE: NTS



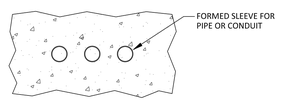
3 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



2 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



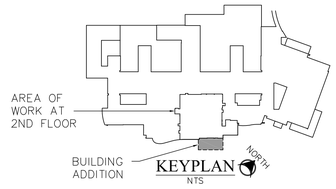
1 1-S3-2 SECTION
SCALE: 3/4" = 1'-0"



TYPICAL PIPE & CONDUIT OPENING DETAIL

NOTES

1. OPENINGS FOR PIPE & CONDUIT SHALL BE SLEEVED THROUGH FLOOR WITH A MINIMUM OF 8" CLEAR DISTANCE BETWEEN SLEEVES. SLEEVES SHALL NOT INTERRUPT REINFORCING. IF SLEEVES ARE CLOSER THAN 8" CLEAR OR THEY INTERRUPT REINFORCING, REINFORCE SLAB PER 'TYPICAL OPENING REINFORCING DETAIL'.
2. OPENINGS SHALL NOT BE CORE-DRILLED. IF CORE-DRILLING IS REQUIRED, REINFORCING SHALL BE LOCATED PRIOR TO DRILLING AND SHALL NOT BE CUT.
3. OPENINGS SHALL NOT BE CORE-DRILLED WITHIN 36" FROM THE EDGE OF A COLUMN WITHOUT THE PRIOR REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.



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Revisions:	Date
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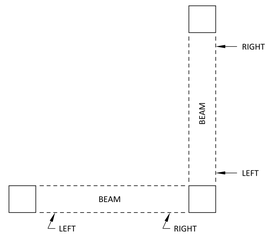
Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management
STRUCTURALSECTIONS AND DETAILS	SURGERY ADDITION	541-364	
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number	
	Date: 03-16-12 / Checked By: RJR / Drawn By: JWP	Drawing Number: 1-S3-2	Department of Veterans Affairs

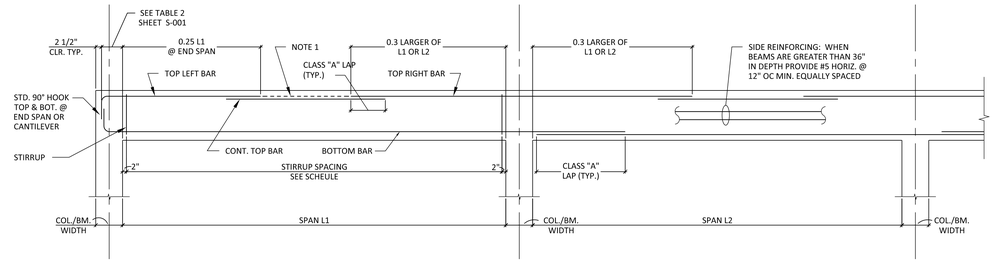
VA FORM 08-6231



ORIENTATION OF BEAMS ON SCHEUDULE

CONCRETE BEAM SCHEDULE

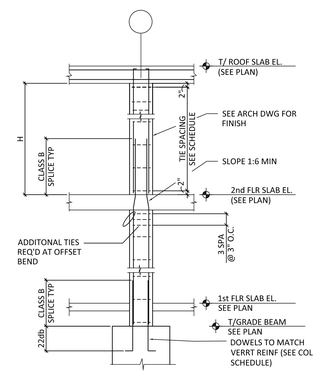
MARK	BEAM SIZE		REINFORCING					STIRRUPS			TYPE	COMMENTS
				TOP			QTY.,	NO. OF SPACES				
	WIDTH	DEPTH	BOTT.	L SUPP	CONT.	R SUPP	SIZE/SET	L SUPP	CENTER	R SUPP		
RB-1	20"	23"	4-#7	5-#7	-	5-#7	1-#4	10" OC (5'-0")	16" OC	10" OC (5'-0")	CL	
RB-2	20"	23"	5-#8	5-#8	-	5-#8	1-#4	10" OC (5'-0")	16" OC	10" OC (5'-0")	CL	
RB-3	20"	23"	4-#7	-	5-#7	-	1-#4	10" OC (5'-0")	16" OC	10" OC (5'-0")	CL	
RB-4	20"	23"	5-#8	-	5-#8	-	1-#4	10" OC (5'-0")	16" OC	10" OC (5'-0")	CL	
2B-1	20"	23"	5-#8	5-#8	-	5-#8	1-#4	6" OC (5'-0")	16" OC	6" OC (5'-0")	CL	
2B-2	20"	23"	5-#8	-	5-#8	-	1-#4	6" OC (5'-0")	16" OC	6" OC (5'-0")	CL	



ELEVATION - TYPICAL BEAM REINFORCING

NOTES

1. WHERE CONTINUOUS TOP BAR IS THE SAME AS THE LEFT OR RIGHT TOP BAR, EXTEND LEFT OR RIGHT TOP BAR ACROSS SPAN OR LAP @ MIDSPAN WITH CLASS "A" SPLICE.
2. CLASS "A" LAPS SHALL CONFORM TO LAP LENGTHS ON GENERAL NOTES SHEET, DIVIDED BY 1.3.
3. WHERE NO TOP BAR IS SPECIFIED IN SCHEDULE, PROVIDE 1-#5 FOR EACH VERTICAL STIRRUP LEG.



ELEVATION - TYPICAL CONCRETE COLUMN

NOTES

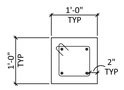
1. REFERENCE GENERAL NOTES FOR LAP DIMENSIONS.

CONCRETE COLUMN SCHEDULE

MARK / LEVEL		A-21F, A-25C, A-25D, A-27B	A-27D, C-21F, C-27D D-21F, D-27D	A-27E, C-21D, C-27E D-21D, D-27E	C-25C, C-25D D-25C, D-25D
ROOF					
2ND FLOOR	SIZE REINF. TIES TYPE	12x12 (4)-#8 #4 @ 12" A		12x12 (4)-#8 #4 @ 14" A	12x12 (4)-#8 #4 @ 12" A
TOP FOOTING	SIZE REINF. TIES TYPE	12x12 (4)-#8 #4 @ 12" A	12x12 (4)-#8 #4 @ 12" B		12x12 (4)-#8 #4 @ 12" C

COLUMN SPLICE NOTES:

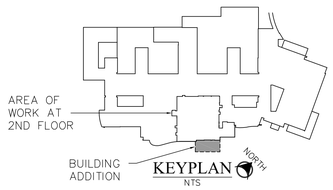
- ALL VERTICAL REINFORCING BARS IN LOWER COLUMN NOT AT OFEST FACE MUST EXTEND INTO UPPER COLUMN AS SHOWN REGARDLESS OF SIZE AND QUANTITY OF UPPER COLUMN REINFORCING.
- WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED IN COMPRESSIONS, SPLICE LENGTH SHALL BE THE LARGER OF: DEVELOPMENT LENGTH OF LARGER BAR OR SPLICE LENGTH OF SMALLER BAR.
- SLOPE OF AN INCLINED PORTION OF AN OFFSET BAR SHALL NOT EXCEED 1H:6V
- AREA AND NUMBER OF DOWELS OR EXTENDED COLUMN BARS OF COMBINATION OF DOWELS AND EXTENDED BARS FROM COLUMN BELOW SHALL NOT BE LESS THAN AREA OF STEEL IN COLUMN ABOVE



TYPE A

CONCRETE SLAB SCHEDULE

MARK	THICKNESS	REINFORCING			REMARKS
		BOTT	TOP BARS	TEMP(EW T&B)	
S-1	9"	#5 @ 8" O.C.	#5 @ 8" O.C.	#4 @ 12"	
S-2	9"	#4 @ 12" O.C.	#4 @ 12" O.C.	#4 @ 12"	
S-2a	9"	#4 @ 8" O.C.	#4 @ 8" O.C.	#4 @ 12"	



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FAX. (440) 546-0888

Drawing Title: STRUCTURAL SECTIONS

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: RJR | Drawn By: JWP

Project Number: 541-364

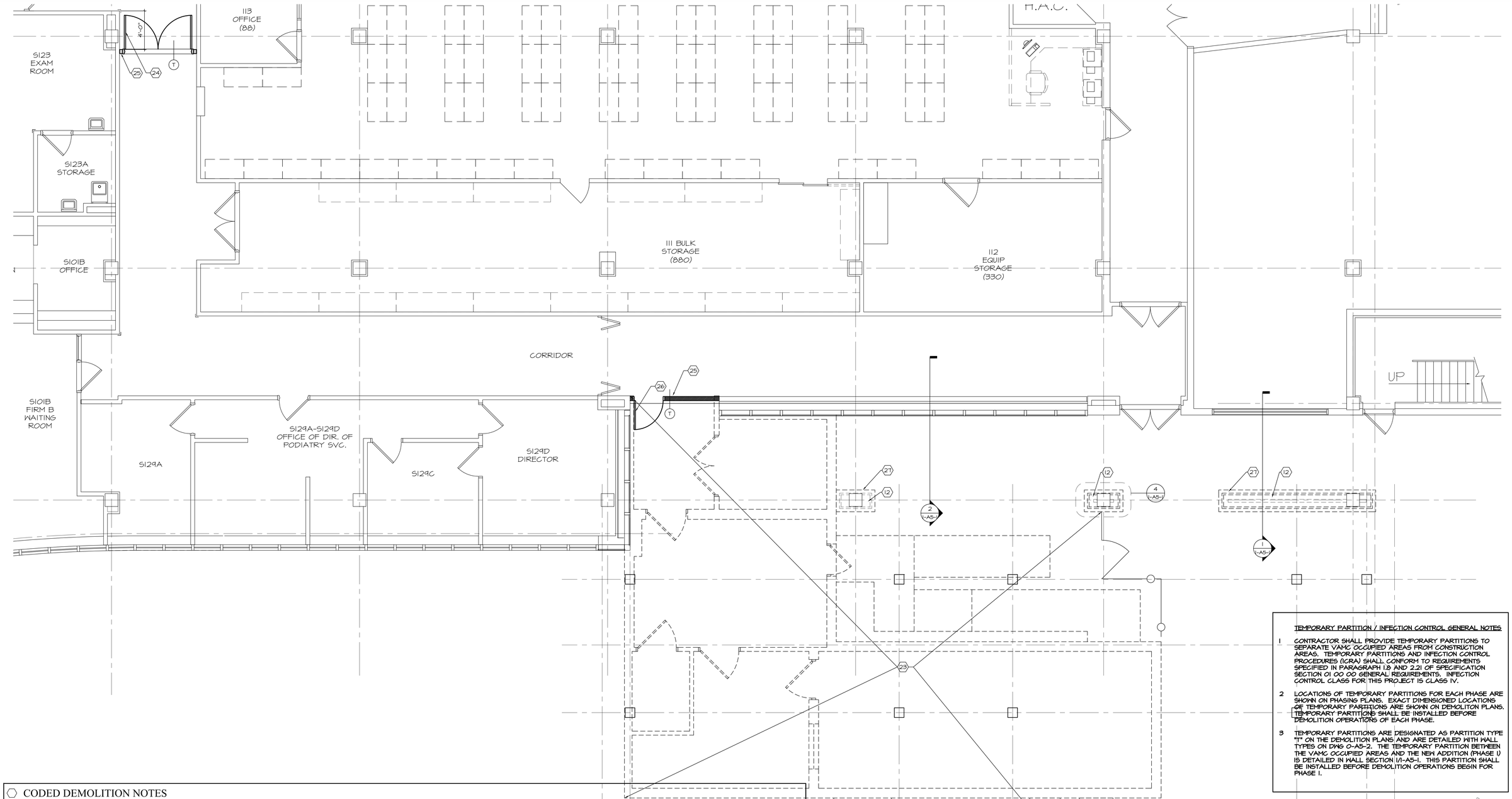
Building Number:

Drawing Number: 1-S3-3

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



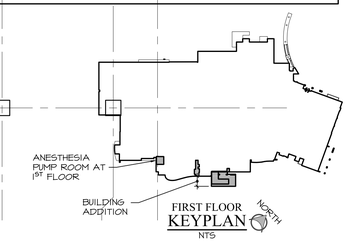
FIRST FLOOR
DEMOLITION PLAN
¼"=1'-0"

TEMPORARY PARTITION / INFECTION CONTROL GENERAL NOTES

1 CONTRACTOR SHALL PROVIDE TEMPORARY PARTITIONS TO SEPARATE VAMC OCCUPIED AREAS FROM CONSTRUCTION AREAS. TEMPORARY PARTITIONS AND INFECTION CONTROL PROCEDURES (ICRA) SHALL CONFORM TO REQUIREMENTS SPECIFIED IN PARAGRAPH 1.8 AND 2.21 OF SPECIFICATION SECTION 01 00 00 GENERAL REQUIREMENTS. INFECTION CONTROL CLASS FOR THIS PROJECT IS CLASS IV.

2 LOCATIONS OF TEMPORARY PARTITIONS FOR EACH PHASE ARE SHOWN ON PHASING PLANS. EXACT DIMENSIONED LOCATIONS OF TEMPORARY PARTITIONS ARE SHOWN ON DEMOLITION PLANS. TEMPORARY PARTITIONS SHALL BE INSTALLED BEFORE DEMOLITION OPERATIONS OF EACH PHASE.

3 TEMPORARY PARTITIONS ARE DESIGNATED AS PARTITION TYPE "T" ON THE DEMOLITION PLANS AND ARE DETAILED WITH WALL TYPES ON DWG 0-A5-2. THE TEMPORARY PARTITION BETWEEN THE VAMC OCCUPIED AREAS AND THE NEW ADDITION (PHASE I) IS DETAILED IN WALL SECTION 1/1-A5-1. THIS PARTITION SHALL BE INSTALLED BEFORE DEMOLITION OPERATIONS BEGIN FOR PHASE I.



FIRST FLOOR
KEYPLAN
NTS

CODED DEMOLITION NOTES

SOME NOTES MAY NOT APPEAR ON THIS SHEET.

1. REMOVE EXISTING DOOR AND FRAME.
2. REMOVE EXISTING WALL CONSTRUCTION.
3. REMOVE EXISTING SIDELITE FRAME AND GLASS.
4. REMOVE EXISTING MILLWORK.
5. REMOVE EXISTING SINK. REFER TO PLUMBING DRAWINGS .
6. REMOVE EXISTING TOILET. REFER TO PLUMBING DRAWINGS.
7. REMOVE EXISTING URINAL. REFER TO PLUMBING DRAWINGS.
8. REMOVE EXISTING TOILET ROOM ACCESSORIES.
9. REMOVE EXISTING CERAMIC FLOOR AND WALL TILE.
10. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION.
11. REMOVE EXISTING CURTAIN WALL SYSTEM.
12. REMOVE EXISTING MASONRY WALL CONSTRUCTION.
13. REMOVE EXISTING WINDOW SILL.
14. REMOVE EXISTING STAIR AND HANDRAIL.
15. REMOVE EXISTING CORNER GUARD.
16. REMOVE EXISTING HOLLOW METAL FRAME AND GLASS.
17. REMOVE EXISTING FIRE EXTINGUISHER CABINET.
18. REMOVE EXISTING LOCKERS.
19. REMOVE EXISTING SHOWER.
20. REMOVE EXISTING TOILET PARTITIONS.
21. REMOVE EXISTING MECHANICAL LOUVER.
22. REMOVE EXISTING MEZZANINE AND STAIR
23. REMOVE MRI STRUCTURE, INCLUDING MONOLITHIC SLAB FOUNDATION. MRI MEDICAL EQUIPMENT WILL BE REMOVED BY VAMC.
24. PR 3'-6" X 7'-0" TEMPORARY SC WD DOORS W/ TWO CLOSERS, TWO ELECTROMAGNETIC HOLD-OPENS, & TWO PR PUSH/PULL TRIM, & HM FRAME.
25. TEMPORARY PARTITION.
26. 3'X7' TEMPORARY DR W/ CLOSER & LOCKSET & HM FRAME.
27. REMOVE LIMESTONE PANELS.
28. REMOVE VINYL COMPOSITION TILE.
29. REMOVE SUSPENDED LAY-IN ACOUSTICAL TILE CEILING SYSTEM.
30. REMOVE RESILIENT SHEET FLOORING & BASE.
31. REMOVE PLASTER ON GYPSUM LATH CEILING AND SUSPENSION SYSTEM.
32. REMOVE CEILING MOUNTED SURGICAL LIGHTS, EQUIPMENT BOOMS, AND ALL STRUCTURAL EQUIPMENT SUPPORTS. RETURN SURGICAL LIGHTS AND EQUIPMENT BOOMS TO VAMC.
33. REMOVE GYPSUM BOARD AND METAL STUD FURRING FOR FULL EXTENT OF EXISTING WALL.

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
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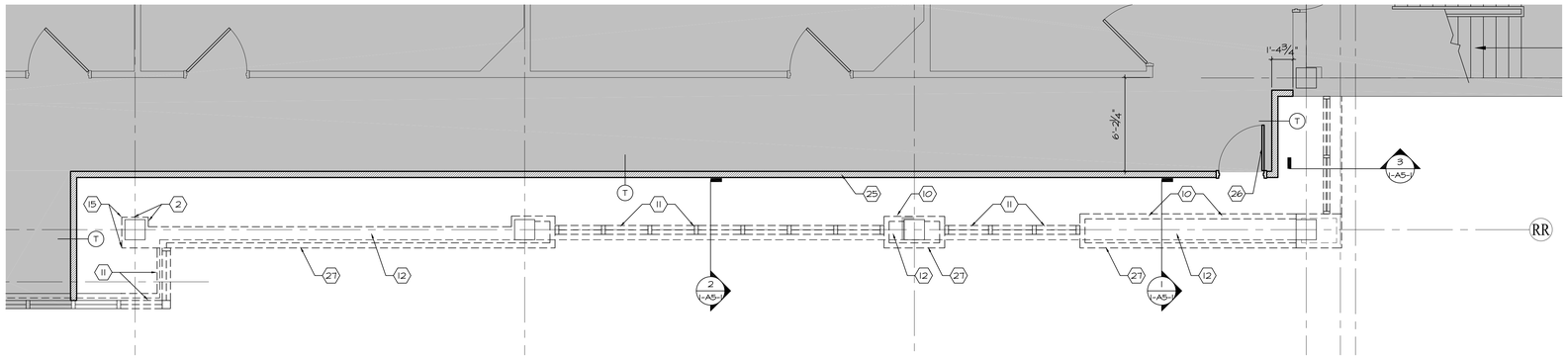
Drawing Title	FIRST FLOOR DEMOLITION PLAN
Approved: Project Director	
Project Title	VAMC WADE PARK CLEVELAND SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
Checked By	MJM
Drawn By	JLC
Project Number	541-364
Building Number	
Drawing Number	1-A1-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



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

TEMPORARY PARTITION / INFECTION CONTROL GENERAL NOTES

1 CONTRACTOR SHALL PROVIDE TEMPORARY PARTITIONS TO SEPARATE VAMC OCCUPIED AREAS FROM CONSTRUCTION AREAS. TEMPORARY PARTITIONS AND INFECTION CONTROL PROCEDURES (ICRA) SHALL CONFORM TO REQUIREMENTS SPECIFIED IN PARAGRAPH 1.8 AND 2.21 OF SPECIFICATION SECTION 01 00 00 GENERAL REQUIREMENTS. INFECTION CONTROL CLASS FOR THIS PROJECT IS CLASS IV.

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3 TEMPORARY PARTITIONS ARE DESIGNATED AS PARTITION TYPE "T" ON THE DEMOLITION PLANS AND ARE DETAILED WITH WALL TYPES ON DWG 0-A5-2. THE TEMPORARY PARTITION BETWEEN THE VAMC OCCUPIED AREAS AND THE NEW ADDITION (PHASE 1) IS DETAILED IN WALL SECTION 1/1-A5-1. THIS PARTITION SHALL BE INSTALLED BEFORE DEMOLITION OPERATIONS BEGIN FOR PHASE 1.

CODED DEMOLITION NOTES

SOME NOTES MAY NOT APPEAR ON THIS SHEET.

1. REMOVE EXISTING DOOR AND FRAME.
2. REMOVE EXISTING WALL CONSTRUCTION.
3. REMOVE EXISTING SIDELITE FRAME AND GLASS.
4. REMOVE EXISTING MILLWORK.
5. REMOVE EXISTING SINK. REFER TO PLUMBING DRAWINGS .
6. REMOVE EXISTING TOILET. REFER TO PLUMBING DRAWINGS.
7. REMOVE EXISTING URINAL. REFER TO PLUMBING DRAWINGS.
8. REMOVE EXISTING TOILET ROOM ACCESSORIES.
9. REMOVE EXISTING CERAMIC FLOOR AND WALL TILE.
10. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION.
11. REMOVE EXISTING CURTAIN WALL SYSTEM.
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13. REMOVE EXISTING WINDOW SILL.
14. REMOVE EXISTING STAIR AND HANDRAIL.
15. REMOVE EXISTING CORNER GUARD.
16. REMOVE EXISTING HOLLOW METAL FRAME AND GLASS.
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21. REMOVE EXISTING MECHANICAL LOUVER.
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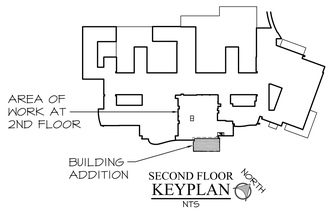
24. PR 3'-6" X 7'-0" TEMPORARY SC WD DOORS W/ TWO CLOSERS, TWO ELECTROMAGNETIC HOLD-OPENS, & TWO PR PUSH/PULL TRIM, & HM FRAME.
25. TEMPORARY PARTITION.
26. 3'X7' TEMPORARY DR W/ CLOSER & LOCKSET & HM FRAME.
27. REMOVE LIMESTONE PANELS.
28. REMOVE VINYL COMPOSITION TILE.
29. REMOVE SUSPENDED LAY-IN ACOUSTICAL TILE CEILING SYSTEM.
30. REMOVE RESILIENT SHEET FLOORING & BASE.
31. REMOVE PLASTER ON GYPSUM LATH CEILING AND SUSPENSION SYSTEM.
32. REMOVE CEILING MOUNTED SURGICAL LIGHTS, EQUIPMENT BOOMS, AND ALL STRUCTURAL EQUIPMENT SUPPORTS. RETURN SURGICAL LIGHTS AND EQUIPMENT BOOMS TO VAMC.
33. REMOVE GYPSUM BOARD AND METAL STUD FURRING FOR FULL EXTENT OF EXISTING WALL.



FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
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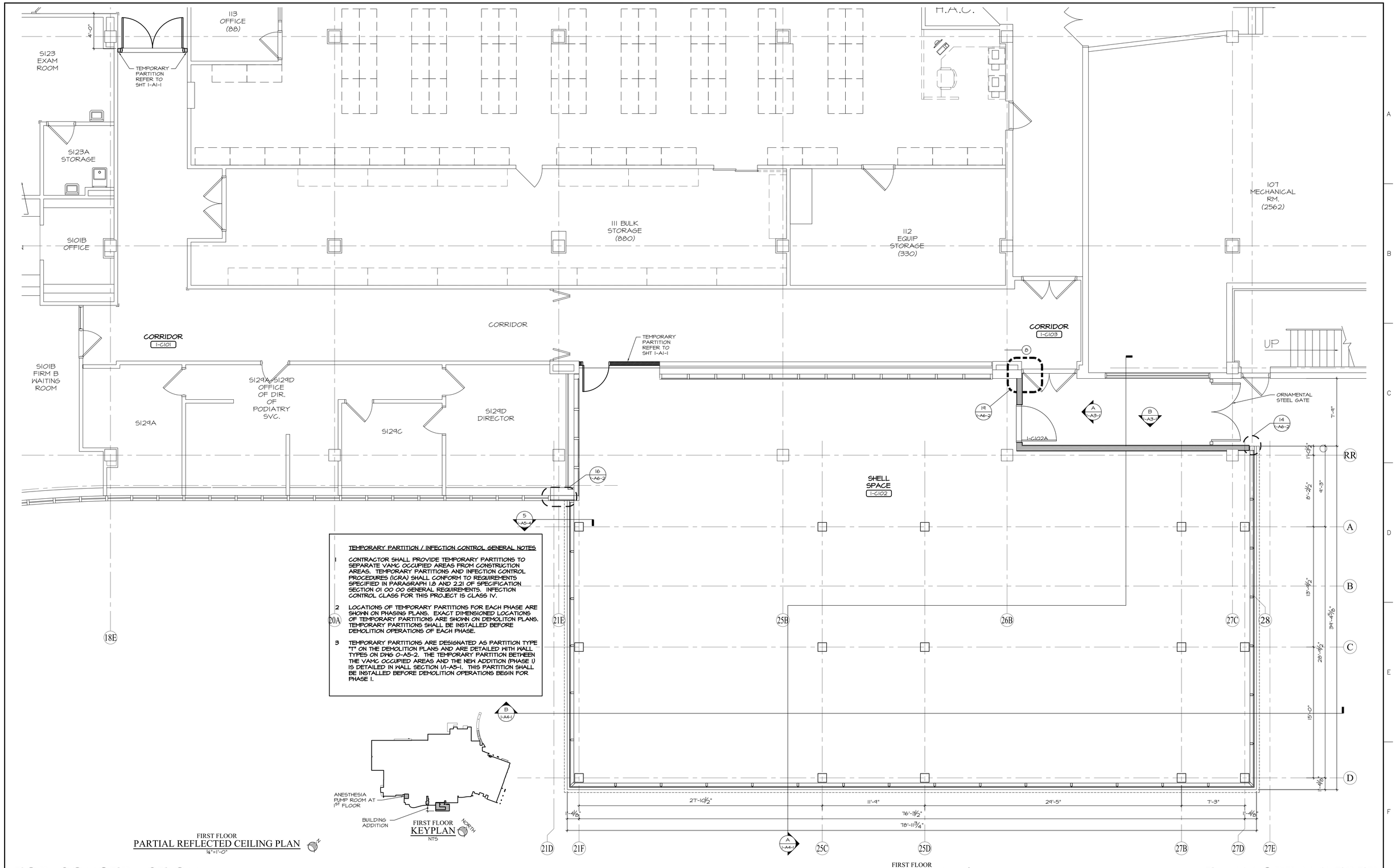
Drawing Title: SECOND FLOOR DEMOLITION PLAN	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
		Building Number:	
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Drawing Number: 1-A1-2	Department of Veterans Affairs
	Date: 03-16-12 / Checked By: MJM / Drawn By: JLC		

VA FORM 08-6231



TEMPORARY PARTITION / INFECTION CONTROL GENERAL NOTES

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FIRST FLOOR
PARTIAL REFLECTED CEILING PLAN
¼"=1'-0"

FIRST FLOOR
NEW FLOOR PLAN
¼"=1'-0"

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
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STATE OF OHIO
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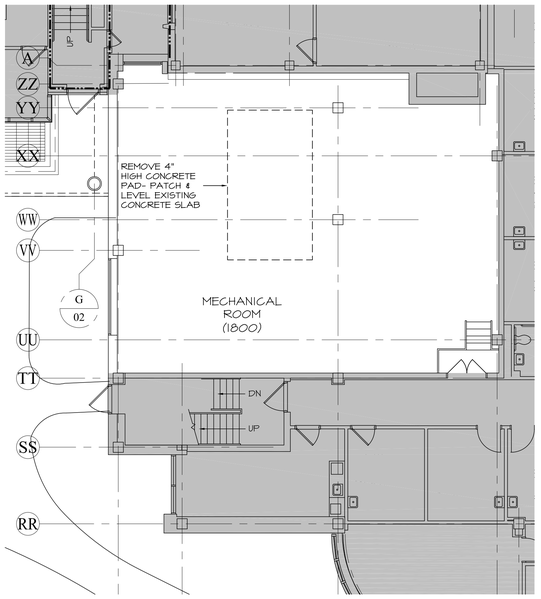
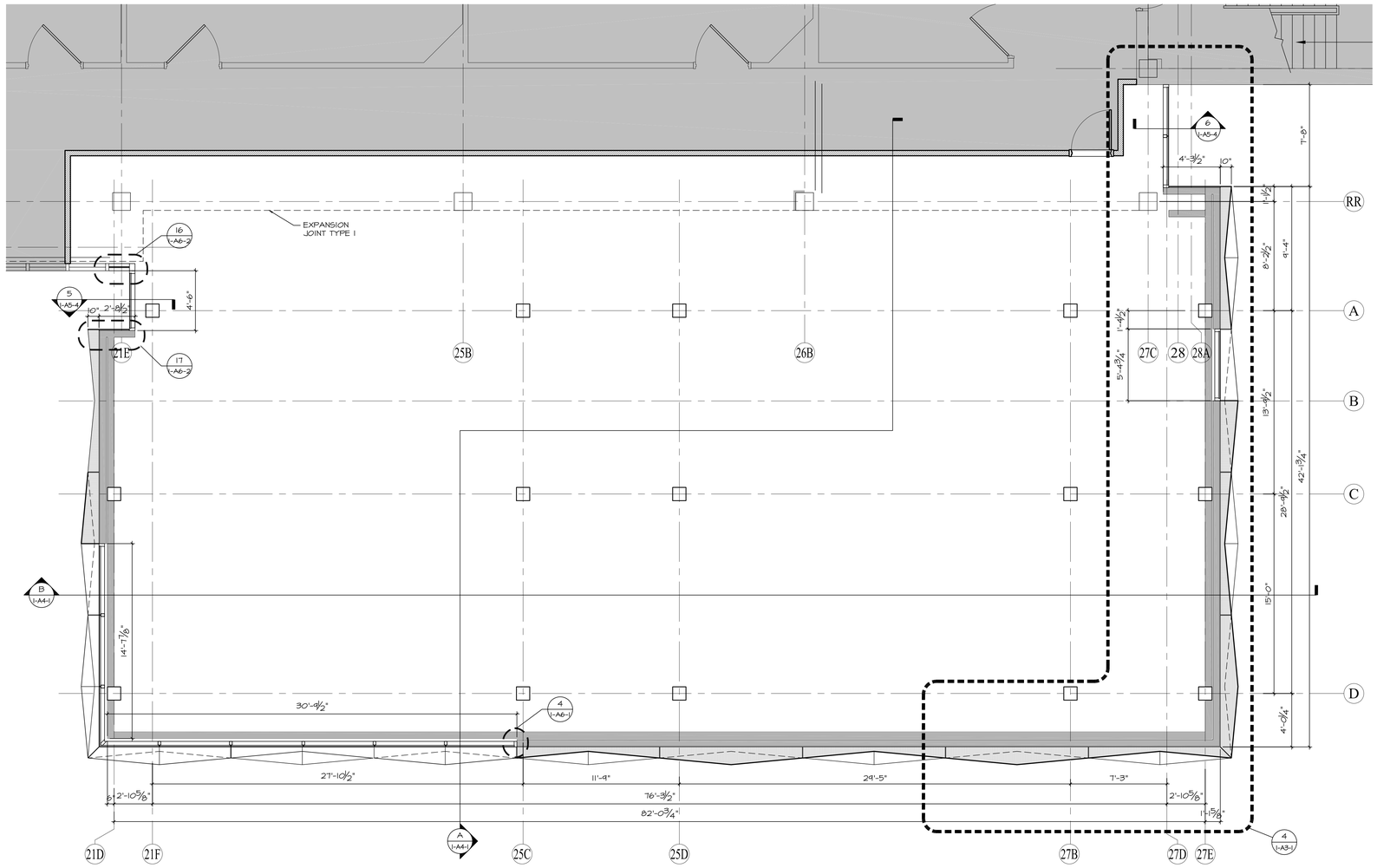
Drawing Title: FIRST FLOOR NEW FLOOR PLAN	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number	
	Date: 03-16-12 / Checked By: MJM / Drawn By: JLC	Drawing Number: 1-A2-1	Department of Veterans Affairs

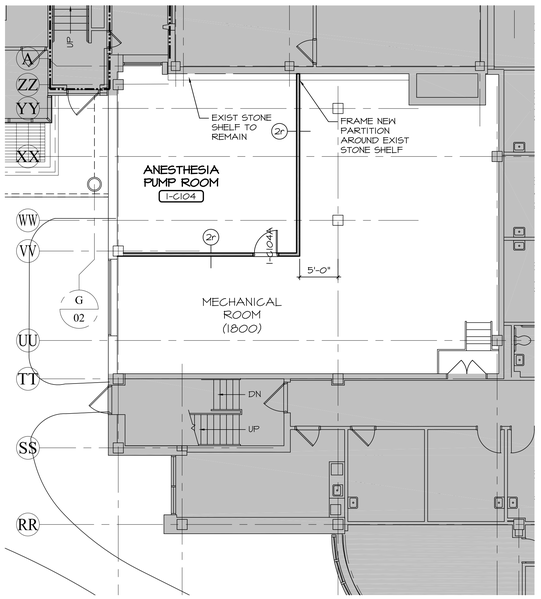
VA FORM 08-6231



PARTIAL FIRST FLOOR
DEMOLITION PLAN
1/8"=1'-0"



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



PARTIAL FIRST FLOOR ANESTHESIA PUMP ROOM
NEW FLOOR PLAN
1/8"=1'-0"

TEMPORARY PARTITION / INFECTION CONTROL GENERAL NOTES

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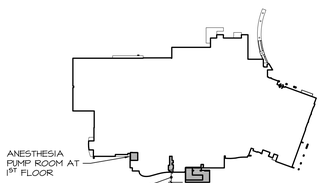

FIRST FLOOR
KEYPLAN
NTS

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
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DAVID J. PUSTI 6332
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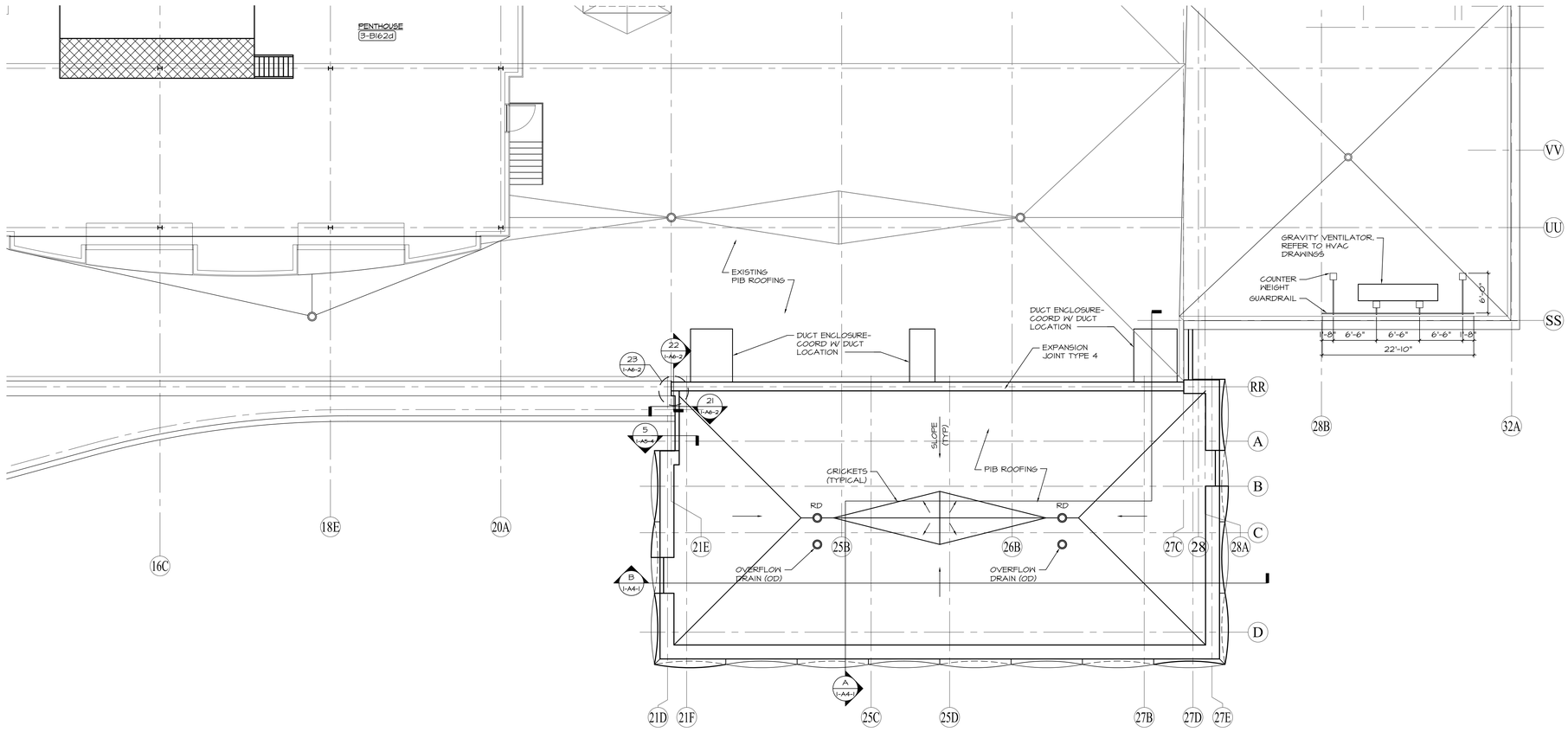
Drawing Title: SECOND FLOOR NEW FLOOR PLAN AND PARTIAL FIRST FLOOR DEMOLITION & ANESTHESIA PUMP ROOM NEW FLOOR PLANS	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number	
	Date: 03-16-12 / Checked By: MJM / Drawn By: JLC	Drawing Number: 1-A2-2	Department of Veterans Affairs

VA FORM 08-6231



ROOF PLAN
1/8"=1'-0"

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
RONALD J. MAKOVICH 6674
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Drawing Title: ROOF PLAN

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date	Checked By	Drawn By
03-16-12	MJM	JLC

Project Number: 541-364

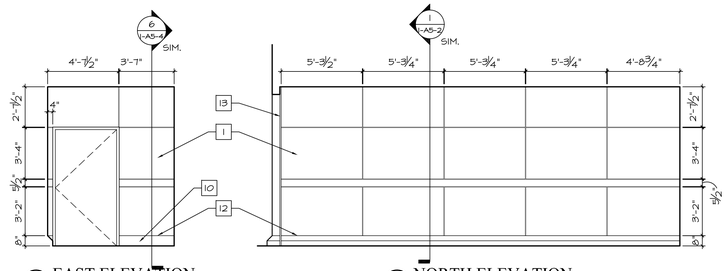
Building Number:

Drawing Number: 1-A2-3

Office of Construction and Facilities Management

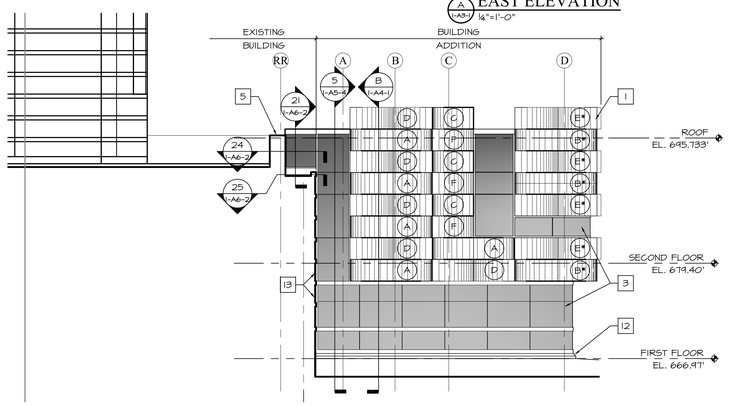
Department of Veterans Affairs

VA FORM 08-6231

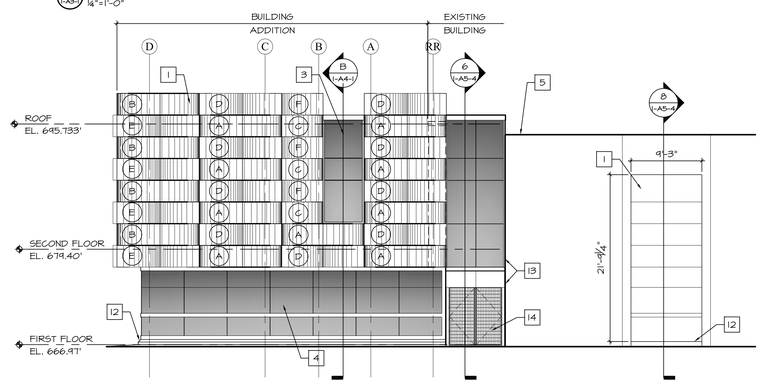


A 1-A5-1 EAST ELEVATION
¼"=1'-0"

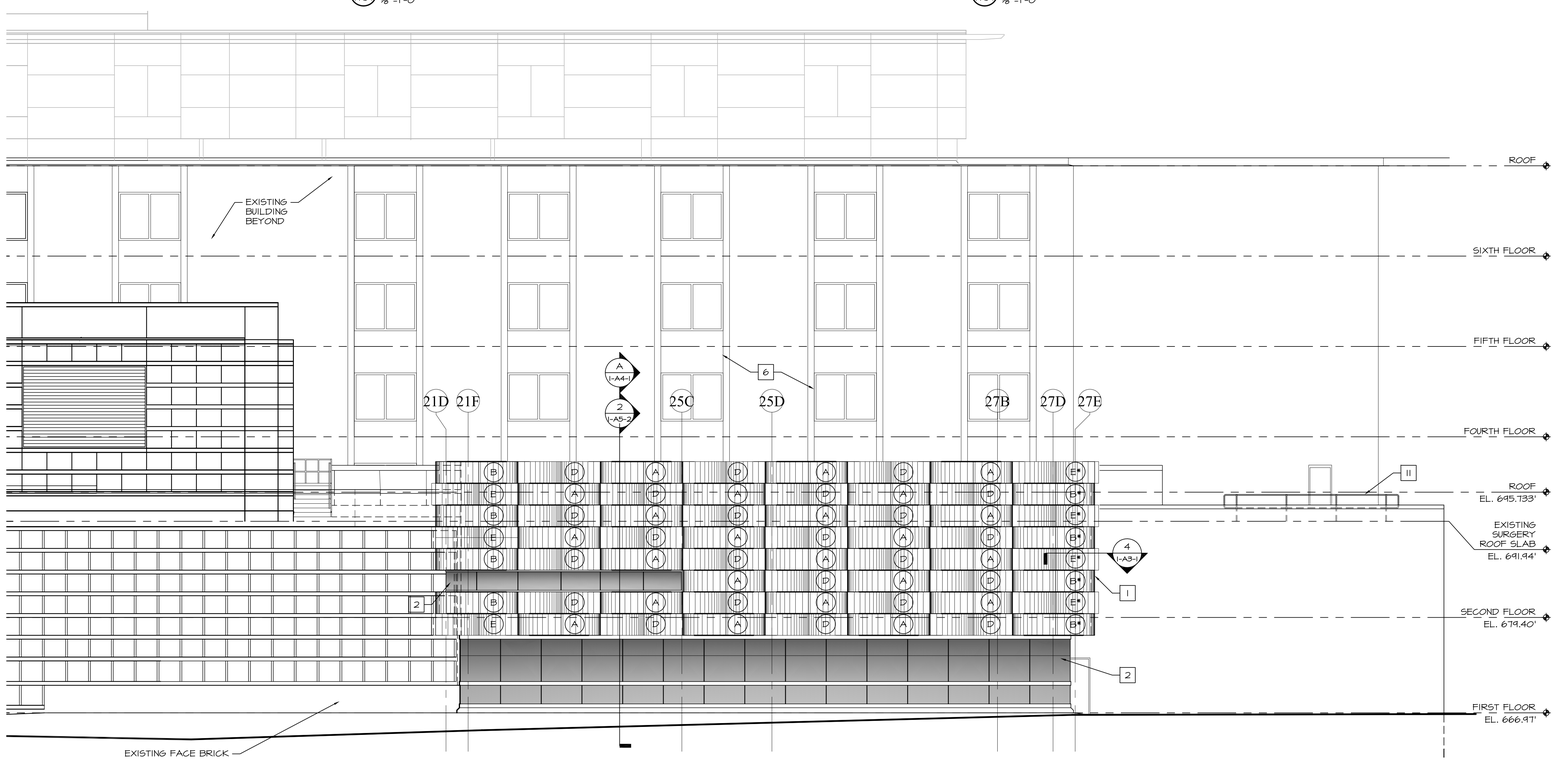
B 1-A5-1 NORTH ELEVATION
¼"=1'-0"



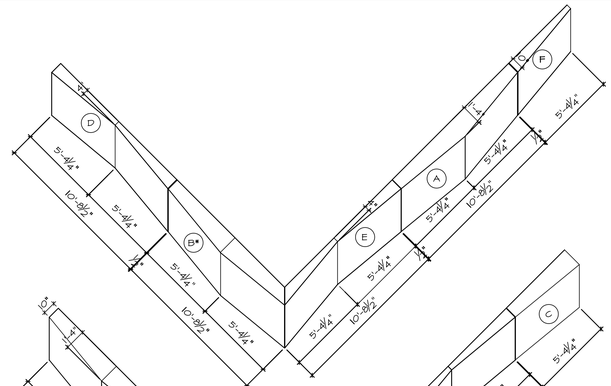
2 1-A5-1 WEST ELEVATION
⅛"=1'-0"



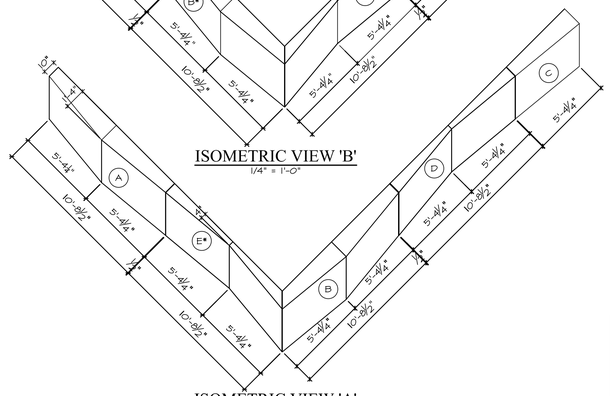
3 1-A5-1 EAST ELEVATION
⅛"=1'-0"



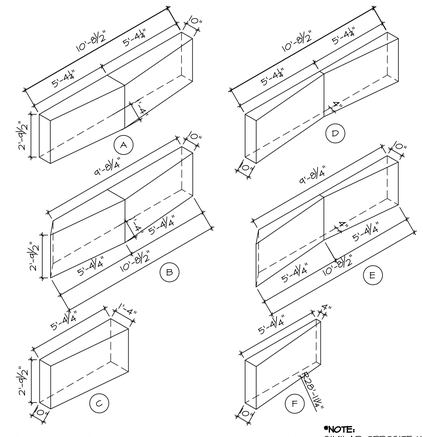
1 1-A5-1 SOUTH ELEVATION
⅛"=1'-0"



ISOMETRIC VIEW 'B'
1/4" = 1'-0"

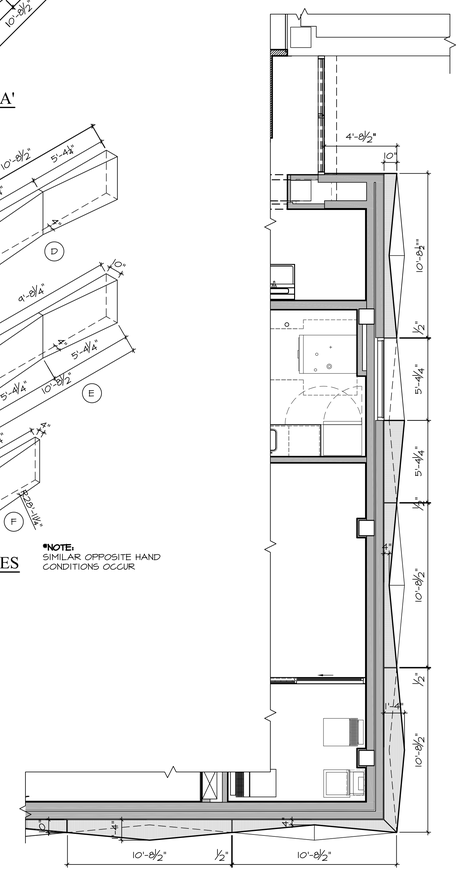


ISOMETRIC VIEW 'A'
1/4" = 1'-0"



SS COMPOSITE WALL PANEL TYPES
1/4" = 1'-0"

*NOTE:
SIMILAR OPPOSITE HAND CONDITIONS OCCUR



4 1-A5-1 SS COMPOSITE WALL PANEL PLAN DETAIL
¼" = 1'-0"

KEYED NOTES

SOME NOTES MAY NOT OCCUR ON THIS DRAWING

1. ALUMINUM COMPOSITE WALL PANEL
2. ALUMINUM CURTAIN WALL. REFER TO ELEVATION 6/1-A3-2
3. ALUMINUM CURTAIN WALL. REFER TO ELEVATION 4/1-A3-2
4. ALUMINUM CURTAIN WALL. REFER TO ELEVATION 5/1-A3-2
5. EXISTING PARAPET
6. EXISTING BUILDING BEYOND
7. INSULATING GLASS UNIT
8. INSULATED SPANDREL UNIT
9. STRUCTURAL GLAZING SEALANT
10. STONE TO BE FLUSH WITH WALL PANELS
11. GUARDRAIL
12. STONE SILL
13. EXPANSION JOINT TYPE 3
14. ORNAMENTAL STEEL GATE REFER TO ENLARGED ELEVATIONS 7/1-A3-2

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — RONALD J. MAKOVICH 6674 — DAVID J. PUSTI 6332 — REGISTERED ARCHITECTS

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FAX (440) 546-9699

Drawing Title: EXTERIOR ELEVATIONS AND WALL PANEL TYPES

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: JLC

Project Number: 541-364

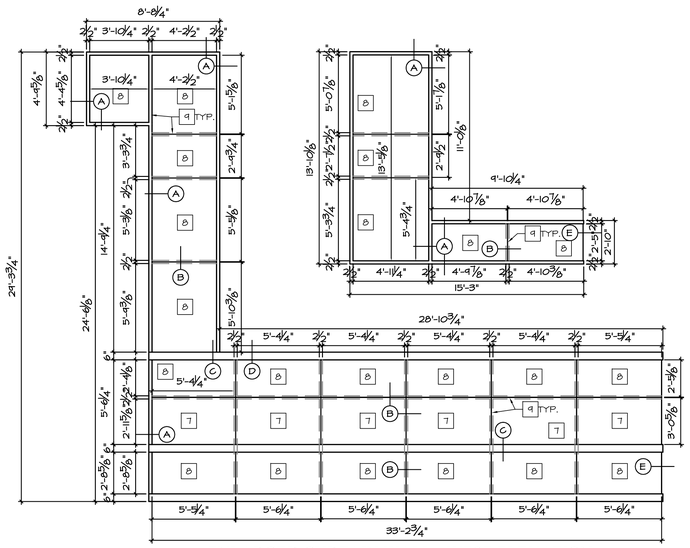
Building Number:

Drawing Number: 1-A3-1

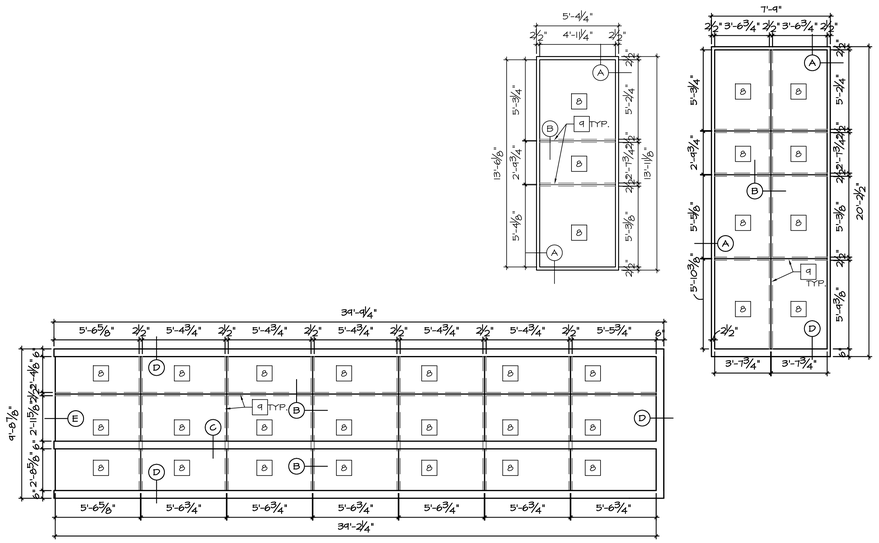
Office of Construction and Facilities Management

Department of Veterans Affairs

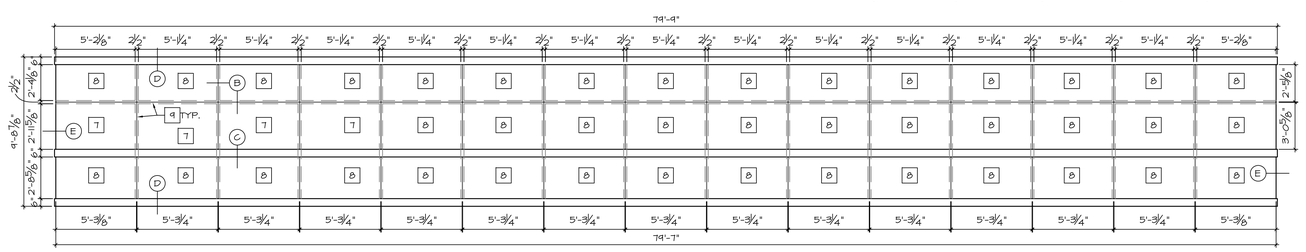
VA FORM 08-6231



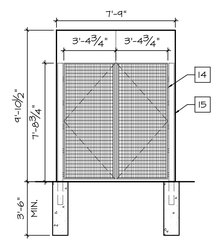
4 A3 ENLARGED CURTAIN WALL - WEST ELEVATION
¼"=1'-0"



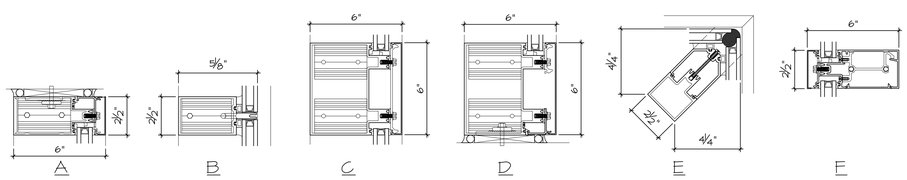
5 A3 ENLARGED CURTAIN WALL - EAST ELEVATION
¼"=1'-0"



6 A3 ENLARGED CURTAIN WALL - SOUTH ELEVATION
¼"=1'-0"



7 A3 ENLARGED SECURITY GATE ELEVATION
¼"=1'-0"



CURTAIN WALL FRAME TYPES
NTS

KEYED NOTES

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3. ALUMINUM CURTAIN WALL. REFER TO ELEVATION 4/1-A3-2
4. ALUMINUM CURTAIN WALL. REFER TO ELEVATION 5/1-A3-2
5. EXISTING PARAPET
6. EXISTING BUILDING BEYOND
7. INSULATING GLASS UNIT
8. INSULATED SPANDREL UNIT
9. STRUCTURAL GLAZING SEALANT
10. NOT USED
11. GUARDRAIL
12. STONE SILL
13. EXPANSION JOINT TYPE 3
14. ORNAMENTAL STEEL GATE REFER TO ENLARGED ELEVATIONS 7/1-A3-2

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — RONALD J. MAKOVICH 6674 — DAVID J. PUSTI 6332 — REGISTERED ARCHITECTS

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Drawing Title: EXTERIOR CURTAIN WALL ELEVATIONS AND FRAME TYPES

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: AK

Project Number: 541-364

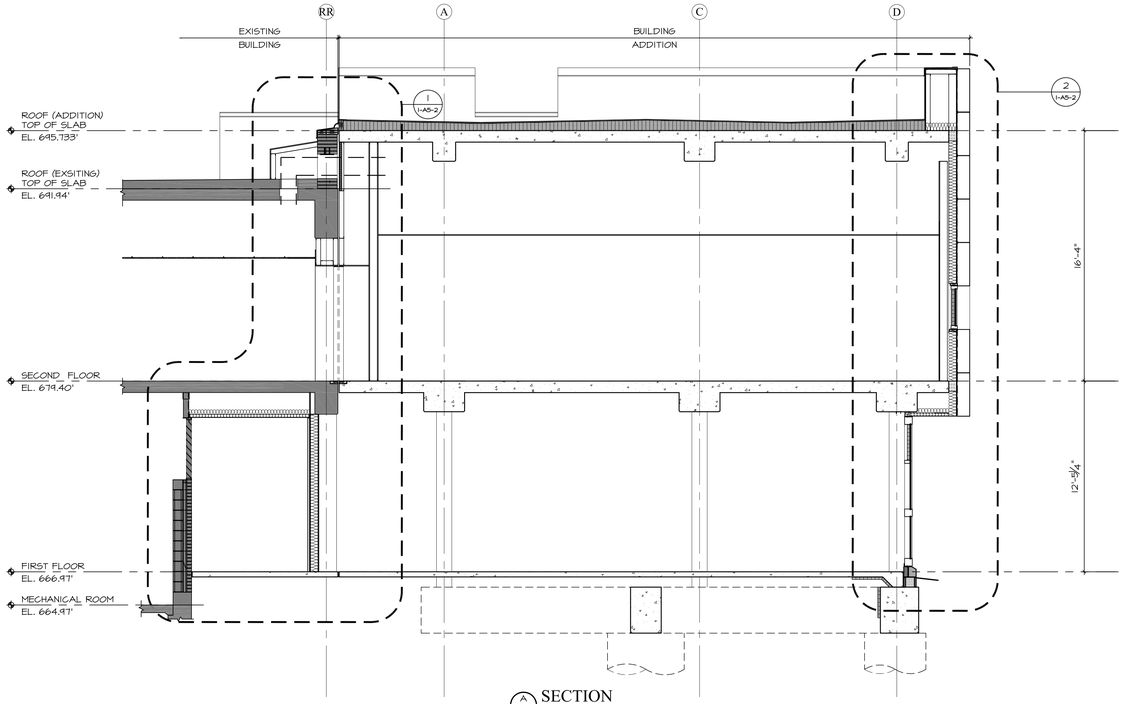
Building Number:

Drawing Number: 1-A3-2

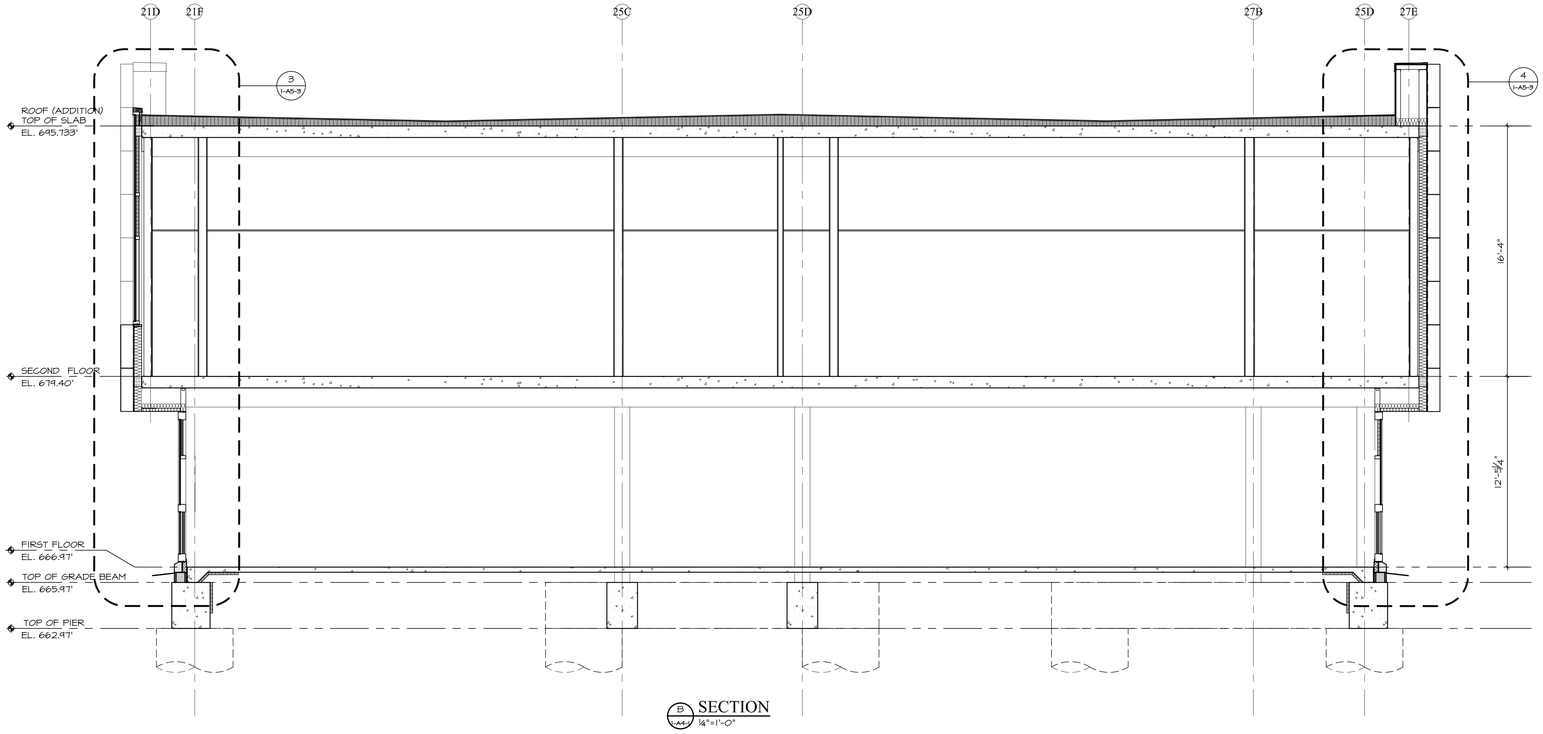
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



A 1-A4-1 SECTION
1/4"=1'-0"



B 1-A4-1 SECTION
1/4"=1'-0"

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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FAX (440) 546-9699

Drawing Title: BUILDING SECTIONS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION SECOND FLOOR

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: MTS

Project Number: 541-364

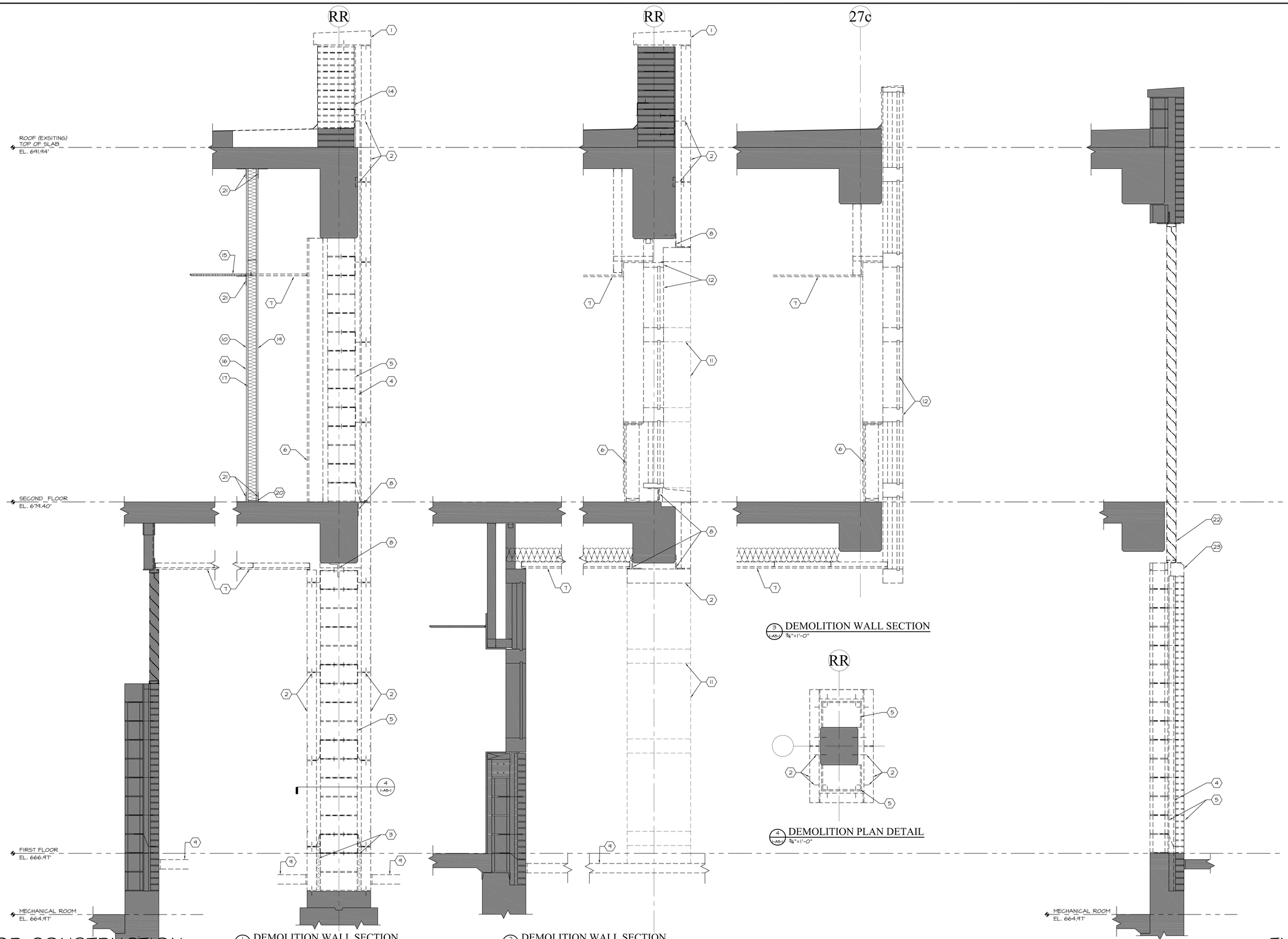
Building Number:

Drawing Number: 1-A4-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



1 DEMOLITION WALL SECTION
1-A5-1 ¾"=1'-0"

2 DEMOLITION WALL SECTION
1-A5-1 ¾"=1'-0"

3 DEMOLITION WALL SECTION
1-A5-1 ¾"=1'-0"

4 DEMOLITION PLAN DETAIL
1-A5-1 ¾"=1'-0"

5 DEMOLITION WALL SECTION
1-A5-1 ¾"=1'-0"

CODED DEMOLITION NOTES

1. REMOVE STONE COPING
2. REMOVE STONE PANELS & ANCHORS
3. REMOVE GROUT FILL
4. REMOVE RIGID INSULATION
5. REMOVE MASONRY WALL CONSTRUCTION
6. REMOVE GYPSUM BOARD AND METAL STUD WALL CONSTRUCTION
7. REMOVE FINISH CEILING AND SUPPORT SYSTEM
8. REMOVE METAL ANGLES
9. REMOVE CONCRETE WALK
10. TEMPORARY PARTITION
11. STONE CLADDING TO BE REMOVED BEYOND (REFER TO DEMOLITION PLANS)
12. REMOVE CURTAIN WALL SYSTEM
13. REMOVE CONVECTOR REFER TO MECHANICAL DRAWINGS
14. CUT OPENING IN EXISTING PARAPET WALL FOR NEW DUCT PENETRATION.
15. EXISTING CEILING - REMOVE AND REINSTALL AS REQUIRED FOR INSTALLATION OF TEMPORARY PARTITION
16. ⅝" TYPE X GYPSUM BOARD PAINT WITH SEMI-GLOSS PAINT.
17. 3⅝" METAL STUD AT 1'-4" O.C.
18. 3 ½" FOIL-FACED BATT INSULATION
19. ⅝" EXTERIOR SHEATHING
20. COMPRESSIBLE INSULATION
21. SEAL PERIMETER OF WALL WITH DUCT TAPE
22. REMOVE ALUMINUM LOUVERS
23. REMOVE STONE SILL

GENERAL DEMOLITION NOTES

- DRAWINGS AND NOTES INDICATE THE GENERAL SCOPE OF DEMOLITION. CONTRACTOR IS TO PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE NEW WORK.
- EXISTING CONSTRUCTION TO REMAIN SHOWN SHADED

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
RONALD J. MAKOVICH 6674
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Drawing Title: DEMOLITION WALL SECTIONS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date	Checked By	Drawn By
03-16-12	MJM	MTS

Project Number: 541-364

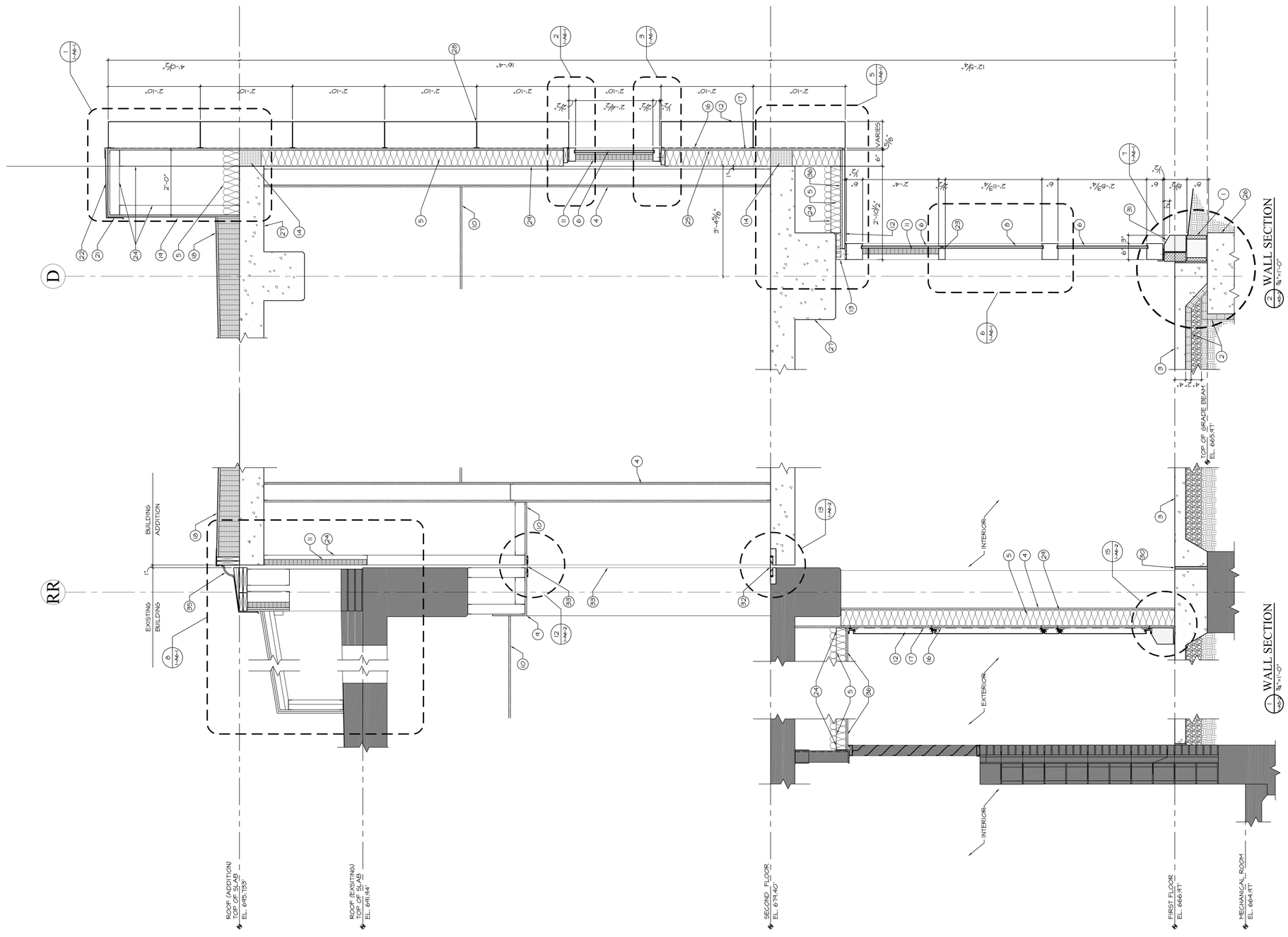
Building Number:

Drawing Number: 1-A5-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



®CODED NOTES

1. 10" CMU GROUT SOLID
2. CONTINUOUS 2'-0"x2'-0" PERIMITER 2" RIGID INSULATION
3. 4" CONCRETE SLAB ON VAPOR BARRIER ON 4" GRAVEL FILL
4. 5/8" GYPSUM BOARD ON 6" METAL STUDS @ 1'-4" O.C.
5. 6¼" BATT INSULATION
6. 1" INSULATING SPANDREL GLASS
7. NOT USED
8. 1" INSULATING GLASS
9. 5/8" GYPSUM BOARD ON 3⅝" METAL STUDS @ 1'-4" O.C.
10. REFER TO REFLECTED CEILING PLAN FOR CEILING TYPE
11. SEMI-RIGID INSULATION w/ FRK FACING
12. ALUMINUM COMPOSITE PANEL
13. CURTAIN WALL ANCHOR
14. FIRE SAFING INSULATION
15. NOT USED
16. RAIN SCREEN WATER BARRIER MEMBRANE
17. 5/8" EXTERIOR GYPSUM SHEATHING
18. PIB MEMBRANE ROOFING ON 5/8" SHEATHING ON TAPERED INSULATION ON VAPOR BARRIER
19. MEMBRANE FLASHING
20. PRT WOOD BLOCKING
21. METAL FLASHING
22. METAL COPING
23. ALUMINUM CURTAIN WALL
24. 3⅝" METAL STUDS @ 1'-4" O.C.
25. 6" COLD FORMED METAL FRAMING - REFER TO STRUCTURAL DRAWINGS
26. CONCRETE GRADE BEAM - REFER TO STRUCTURAL DRAWINGS
27. STRUCTURAL CONCRETE - REFER TO STRUCTURAL DRAWINGS
28. COMPOSITE PANEL JOINT
29. VAPOR BARRIER
30. EXPANSION JOINT FILLER MATERIAL
31. STONE SILL
32. 1" EXPANSION JOINT (TYPE 1)
33. 1" EXPANSION JOINT (TYPE 2)
34. 1" EXPANSION JOINT (TYPE 3)
35. 1" EXPANSION JOINT (TYPE 4)
36. 5/8" EXTERIOR GYPSUM SOFFIT BOARD

NOTES:

- REFER TO STRUCTURAL DRAWINGS FOR CURTAIN WALL ATTACHMENT ANCHORS AND 6" STRUCTURAL STUDS AND ATTACHMENTS
- COMPOSITE METAL PANEL DIMENSIONS VARY AND ARE SHOWN AT A CONSISTENT WIDTH FOR CLARITY OF DRAWINGS.

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — RONALD J. MAKOVICH 6674 — DAVID J. PUSTI 6332 — REGISTERED ARCHITECTS

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Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: MTS

Project Number: 541-364

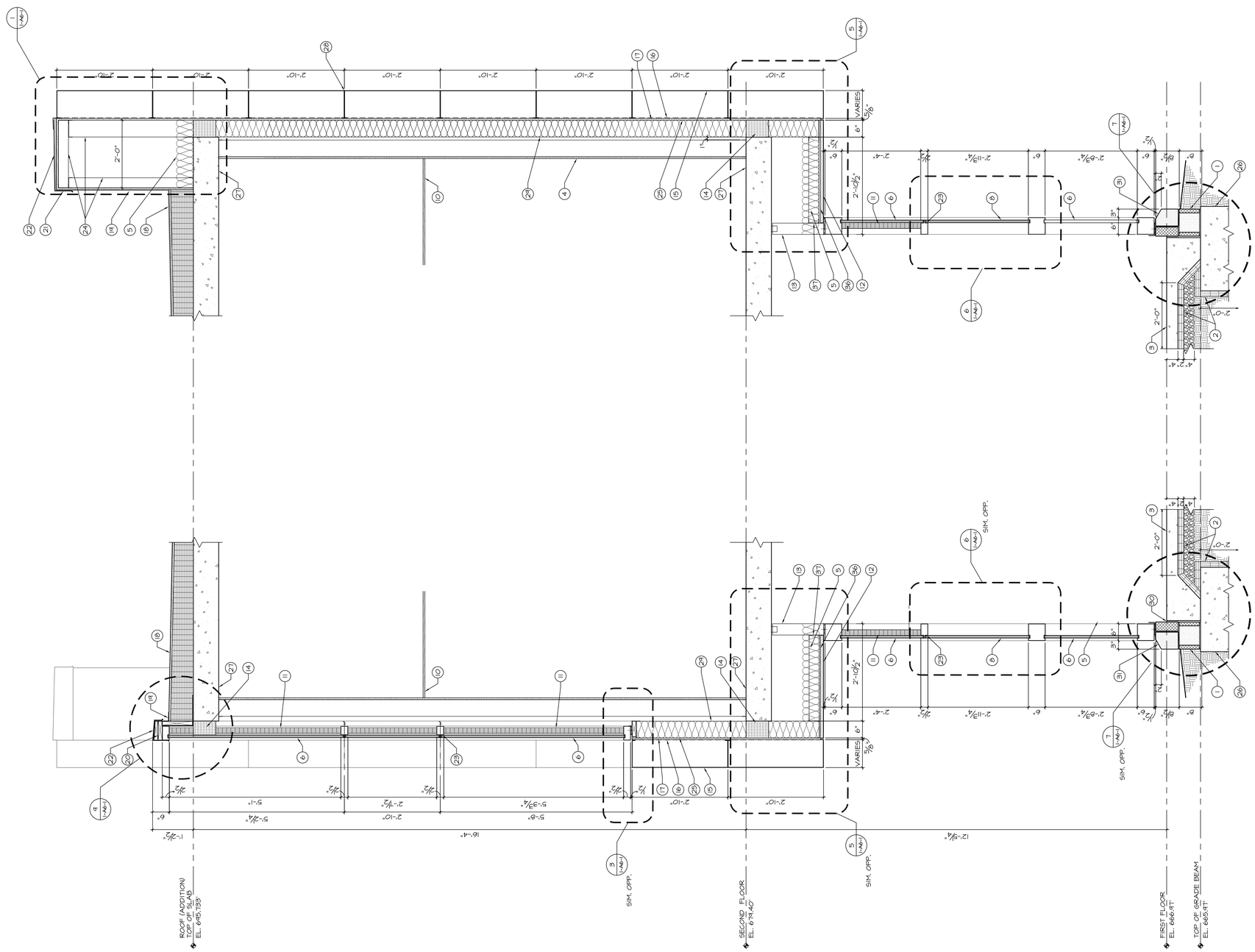
Building Number:

Drawing Number: 1-A5-2

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



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

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

⊗CODED NOTES

1. 10" CMU GROUT SOLID
2. CONTINUOUS 2'-0"x2'-0" PERIMITER 2" RIGID INSULATION
3. 4" CONCRETE SLAB ON VAPOR BARRIER ON 4" GRAVEL FILL
4. 5/8" GYPSUM BOARD ON 6" METAL STUDS @ 1'-4" O.C.
5. 6¼" BATT INSULATION
6. 1" INSULATING SPANDREL GLASS
7. NOT USED
8. 1" INSULATING GLASS
9. 5/8" GYPSUM BOARD ON 3⅝" METAL STUDS @ 1'-4" O.C.
10. REFER TO REFLECTED CEILING PLAN FOR CEILING TYPE
11. SEMI-RIGID INSULATION w/ FRK FACING
12. ALUMINUM COMPOSITE PANEL
13. CURTAIN WALL ANCHOR
14. FIRE SAFING INSULATION
15. NOT USED
16. RAIN SCREEN WATER BARRIER MEMBRANE
17. 5/8" EXTERIOR GYPSUM SHEATHING
18. PIB MEMBRANE ROOFING ON 5/8" SHEATHING ON TAPERED INSULATION ON VAPOR BARRIER
19. MEMBRANE FLASHING
20. FRT WOOD BLOCKING
21. METAL FLASHING
22. METAL COPING
23. ALUMINUM CURTAIN WALL
24. 3⅝" METAL STUDS @ 1'-4" O.C.
25. 6" COLD FORMED METAL FRAMING - REFER TO STRUCTURAL DRAWINGS
26. CONCRETE GRADE BEAM - REFER TO STRUCTURAL DRAWINGS
27. STRUCTURAL CONCRETE - REFER TO STRUCTURAL DRAWINGS
28. COMPOSITE PANEL JOINT
29. VAPOR BARRIER
30. EXPANSION JOINT FILLER MATERIAL
31. STONE SILL
32. 1" EXPANSION JOINT (TYPE 1)
33. 1" EXPANSION JOINT (TYPE 2)
34. 1" EXPANSION JOINT (TYPE 3)
35. 1" EXPANSION JOINT (TYPE 4)
36. 5/8" EXTERIOR GYPSUM SOFFIT BOARD

NOTES:

- REFER TO STRUCTURAL DRAWINGS FOR CURTAIN WALL ATTACHMENT ANCHORS AND 6" STRUCTURAL STUDS AND ATTACHMENTS
- COMPOSITE METAL PANEL DIMENSIONS VARY AND ARE SHOW AT A CONSISTENT WIDTH FOR CLARITY OF DRAWINGS.

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
RONALD J. MAKOVICH 6674
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Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: MTS

Project Number: 541-364

Building Number:

Drawing Number: 1-A5-3

Office of Construction and Facilities Management

Department of Veterans Affairs

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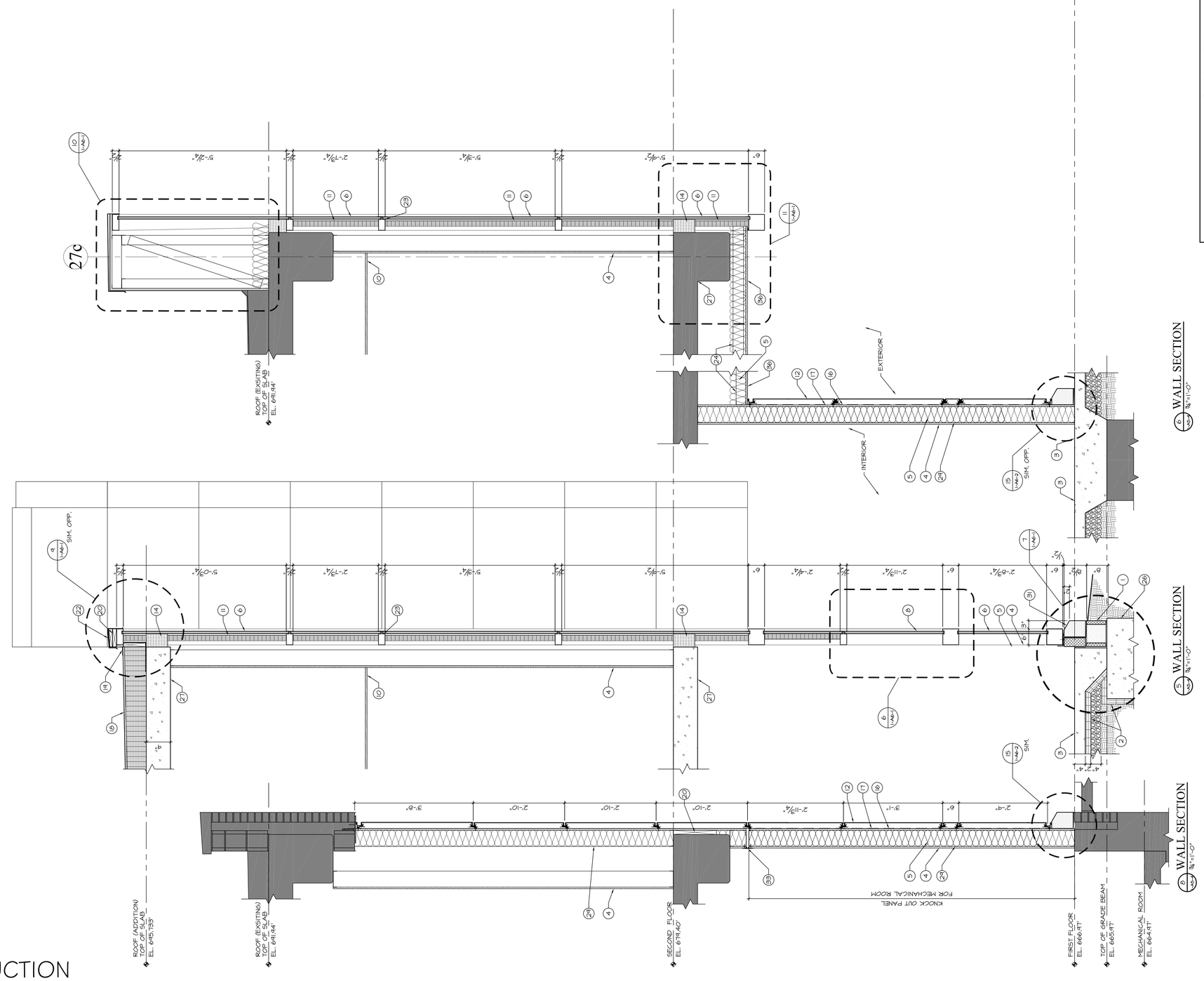

ⓐCODED NOTES

1. 10" CMU GROUT SOLID
2. CONTINUOUS 2'-0"x2'-0" PERIMITER 2" RIGID INSULATION
3. 4" CONCRETE SLAB ON VAPOR BARRIER ON 4" GRAVEL FILL
4. 3/8" GYPSUM BOARD ON 6" METAL STUDS @ 1'-4" O.C.
5. 6¼" BATT INSULATION
6. 1" INSULATING SPANDREL GLASS
7. NOT USED
8. 1" INSULATING GLASS
9. 3/8" GYPSUM BOARD ON 3⅝" METAL STUDS @ 1'-4" O.C.
10. REFER TO REFLECTED CEILING PLAN FOR CEILING TYPE
11. SEMI-RIGID INSULATION w/ FRK FACING
12. ALUMINUM COMPOSITE PANEL
13. CURTAIN WALL ANCHOR
14. FIRE SAFING INSULATION
15. NOT USED
16. RAIN SCREEN WATER BARRIER MEMBRANE
17. 3/8" EXTERIOR GYPSUM SHEATHING
18. PIB MEMBRANE ROOFING ON 3/8" SHEATHING ON TAPERED INSULATION ON VAPOR BARRIER
19. MEMBRANE FLASHING
20. FRT WOOD BLOCKING
21. METAL FLASHING
22. METAL COPING
23. ALUMINUM CURTAIN WALL
24. 3⅝" METAL STUDS @ 1'-4" O.C.
25. 6" COLD FORMED METAL FRAMING - REFER TO STRUCTURAL DRAWINGS
26. CONCRETE GRADE BEAM - REFER TO STRUCTURAL DRAWINGS
27. STRUCTURAL CONCRETE - REFER TO STRUCTURAL DRAWINGS
28. COMPOSITE PANEL JOINT
29. VAPOR BARRIER
30. EXPANSION JOINT FILLER MATERIAL
31. STONE SILL
32. 1" EXPANSION JOINT (TYPE 1)
33. 1" EXPANSION JOINT (TYPE 2)
34. 1" EXPANSION JOINT (TYPE 3)
35. 1" EXPANSION JOINT (TYPE 4)
36. 3/8" EXTERIOR GYPSUM SOFFIT BOARD

NOTES:
- REFER TO STRUCTURAL DRAWINGS FOR CURTAIN WALL ATTACHMENT ANCHORS AND 6" STRUCTURAL STUDS AND ATTACHMENTS
- COMPOSITE METAL PANEL DIMENSIONS VARY AND ARE SHOWN AT A CONSISTENT WIDTH FOR CLARITY OF DRAWINGS.

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FINAL BID DOCUMENTS	03-16-12
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CONSULTANTS:

STATE OF OHIO
RONALD J. MAKOVICH 6674
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TEL. (440) 546-9696
FAX (440) 546-9699

Drawing Title: WALL SECTIONS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date	Checked By	Drawn By
03-16-12	MJM	MTS

Project Number: 541-364

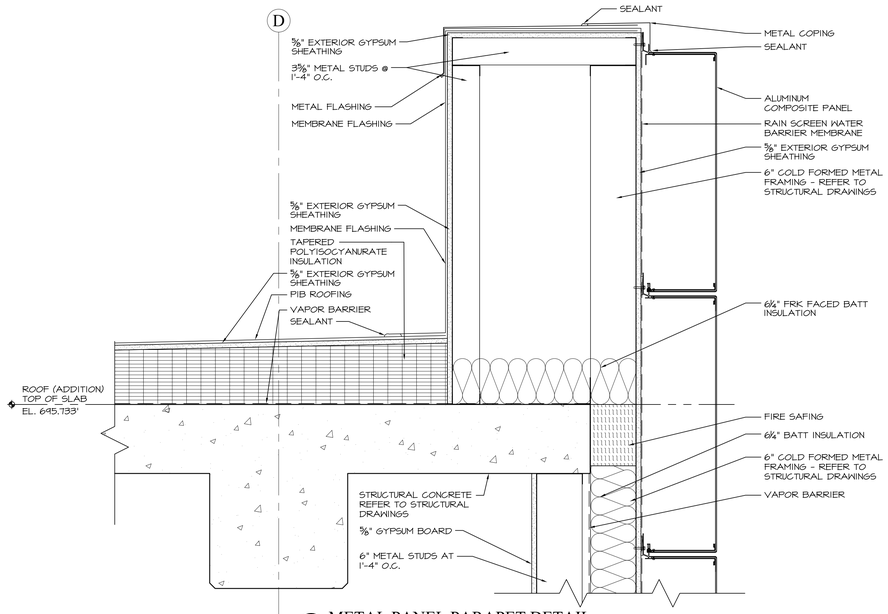
Building Number:

Drawing Number: 1-A5-4

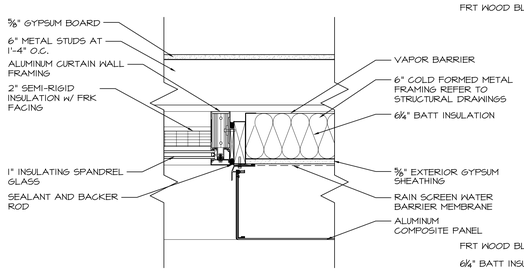
Office of Construction and Facilities Management

Department of Veterans Affairs

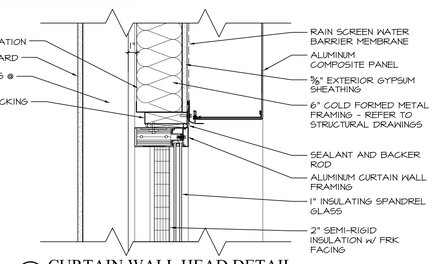
VA FORM 08-6231



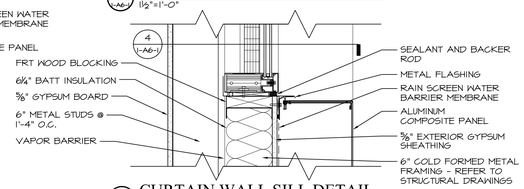
1 A6-1 METAL PANEL PARAPET DETAIL
1½"=1'-0"



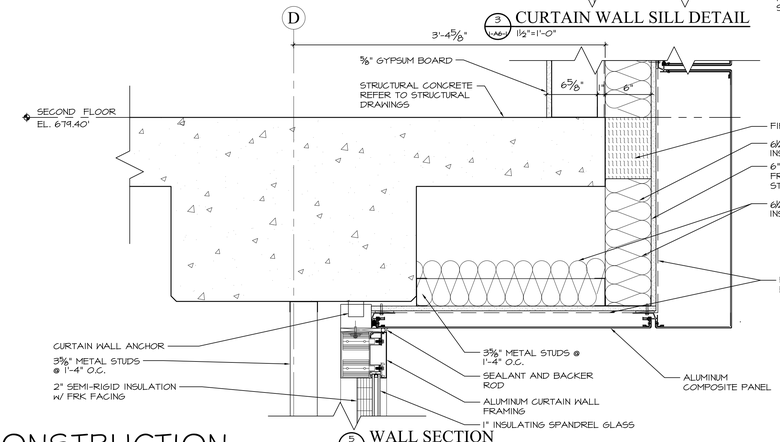
4 A6-1 CURTAIN WALL JAMB DETAIL
1½"=1'-0"



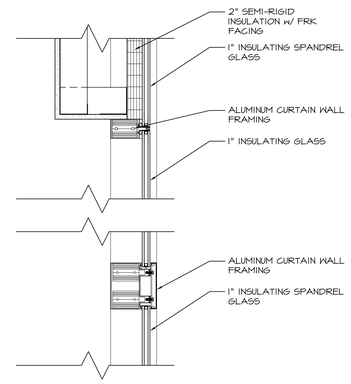
2 A6-1 CURTAIN WALL HEAD DETAIL
1½"=1'-0"



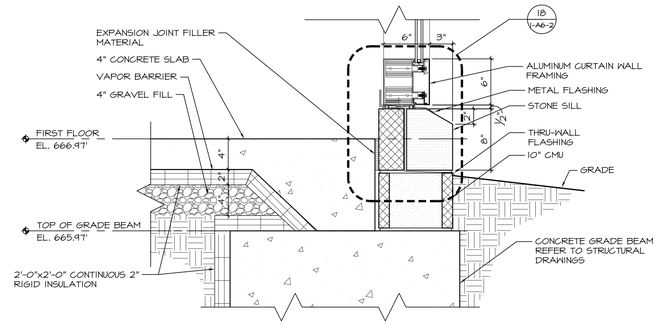
3 A6-1 CURTAIN WALL SILL DETAIL
1½"=1'-0"



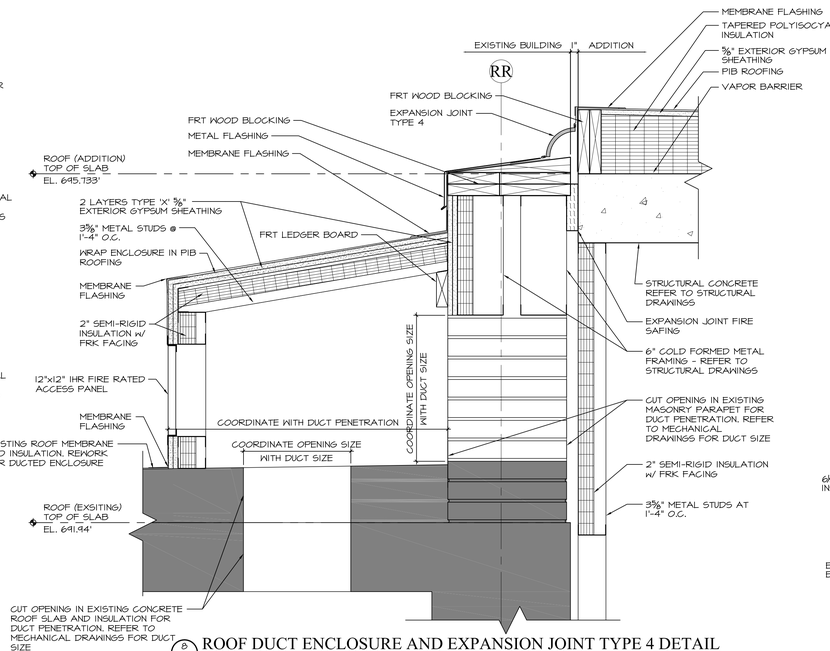
5 A6-1 WALL SECTION
1½"=1'-0"



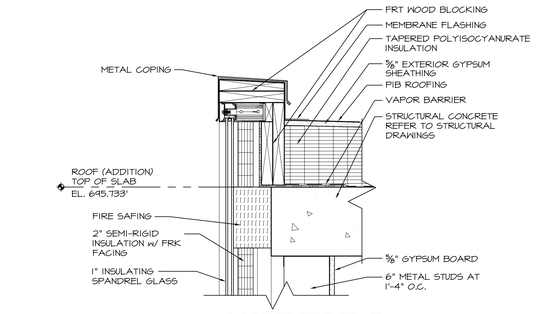
6 A6-1 WINDOW DETAIL
1½"=1'-0"



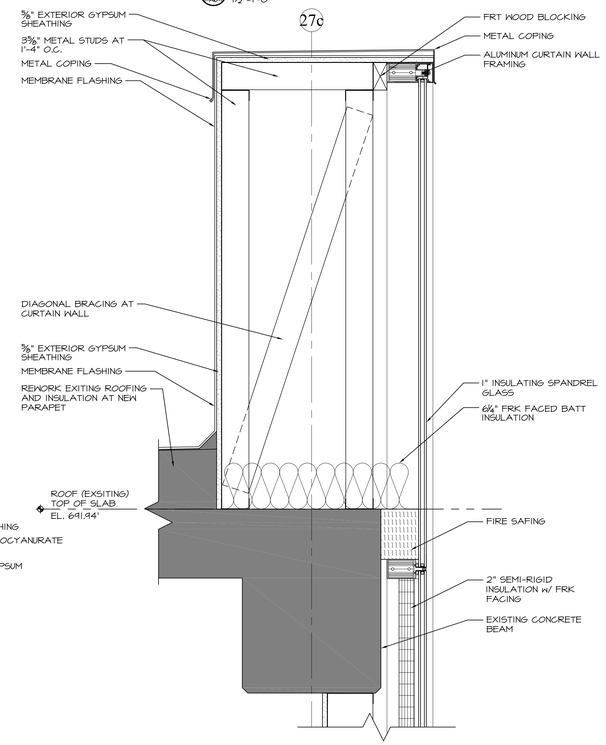
7 A6-1 STONE SILL DETAIL
1½"=1'-0"



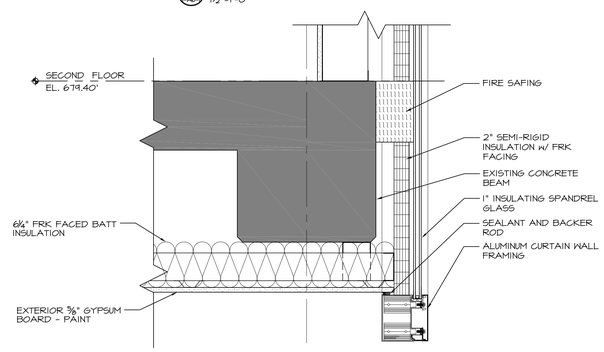
9 A6-1 ROOF DUCT ENCLOSURE AND EXPANSION JOINT TYPE 4 DETAIL
1½"=1'-0"



9 A6-1 ROOF EDGE DETAIL
1½"=1'-0"



10 A6-1 CURTAIN WALL PARAPET DETAIL
1½"=1'-0"



11 A6-1 CURTAIN WALL SOFFIT DETAIL
1½"=1'-0"

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — RONALD J. MAKOVICH 6674 — DAVID J. PUSTI 6332 — REGISTERED ARCHITECTS

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PH: (440) 546-9600
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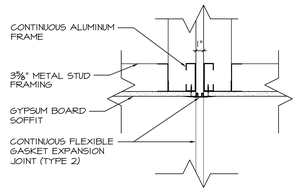
Drawing Title: DETAILS	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number
	Date: 03-16-12	Checked By: MJM	Drawing Number: 1-A6-1
		Drawn By: MTS	

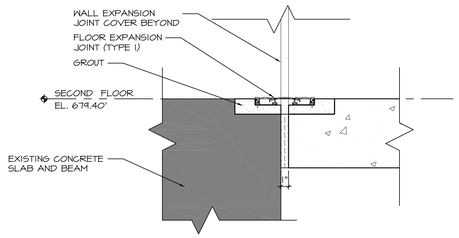
Office of Construction and Facilities Management

Department of Veterans Affairs

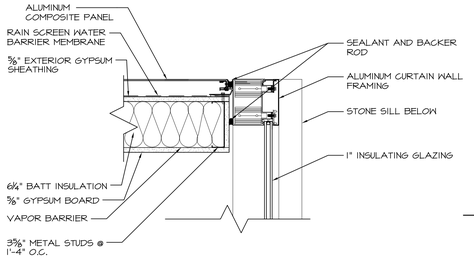
VA FORM 08-6231



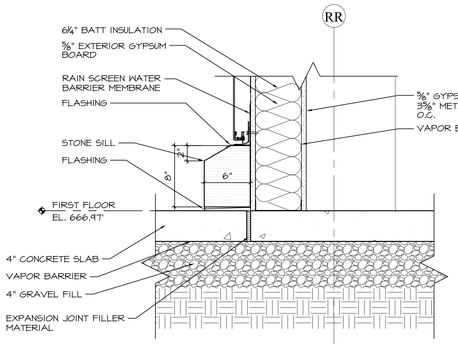
12 A6-2 EXPANSION JOINT TYPE 2 DETAIL
1½"=1'-0"



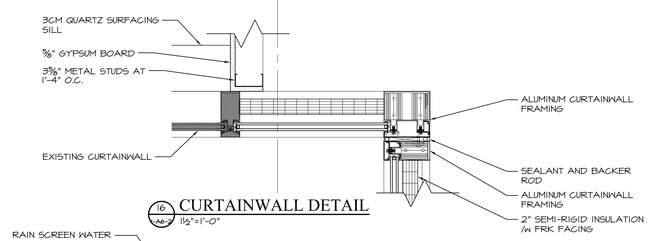
13 A6-2 EXPANSION JOINT TYPE 3 DETAIL
1½"=1'-0"



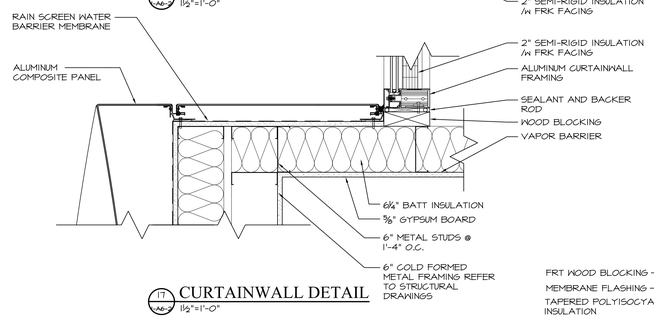
14 A6-2 CURTAINWALL JAMB PLAN DETAIL
1½"=1'-0"



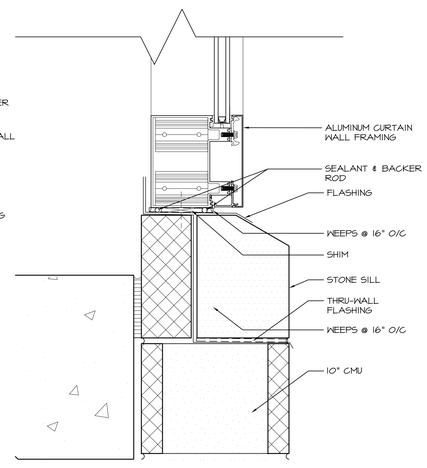
15 A6-2 METAL PANEL STONE BASE DETAIL
1½"=1'-0"



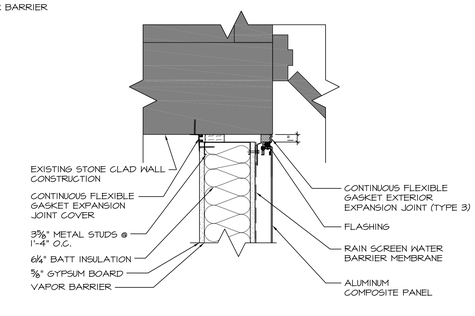
16 A6-2 CURTAINWALL DETAIL
1½"=1'-0"



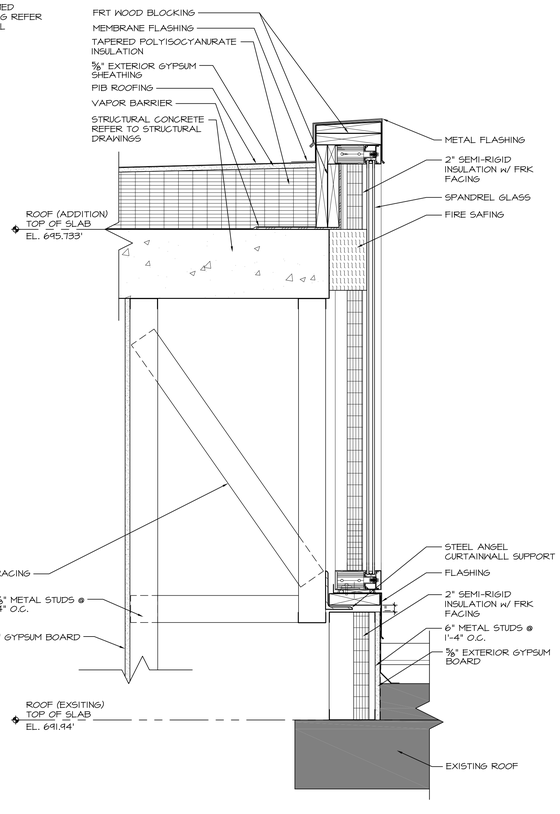
17 A6-2 CURTAINWALL DETAIL
1½"=1'-0"



18 A6-2 STONE SILL DETAIL
3"=1'-0"

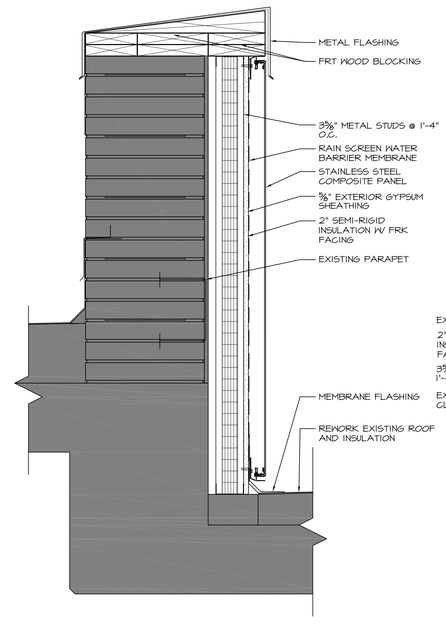


19 A6-2 METAL PANEL EXPANSION JOINT DETAIL
1½"=1'-0"

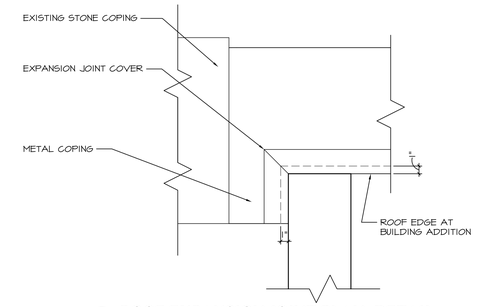


21 A6-2 CURTAINWALL DETAIL
1½"=1'-0"

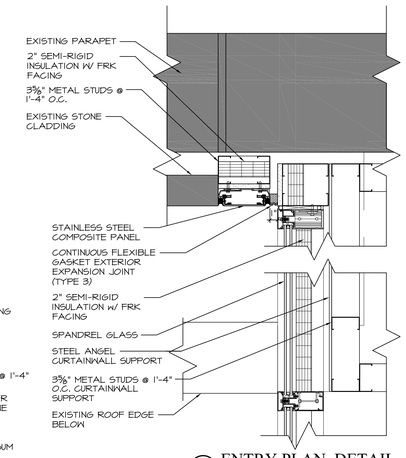
20 A6-2 NOT USED
1½"=1'-0"



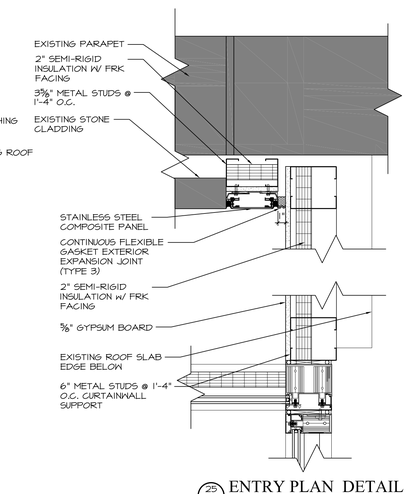
22 A6-2 PARAPET DETAIL
1½"=1'-0"



23 A6-2 ROOF EXPANSION JOINT PLAN DETAIL
1½"=1'-0"



24 A6-2 ENTRY PLAN DETAIL
1½"=1'-0"



25 A6-2 ENTRY PLAN DETAIL
1½"=1'-0"

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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Drawing Title: DETAILS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MJM | Drawn By: MTS

Project Number: 541-364

Building Number:

Drawing Number: 1-A6-2

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Department of Veterans Affairs

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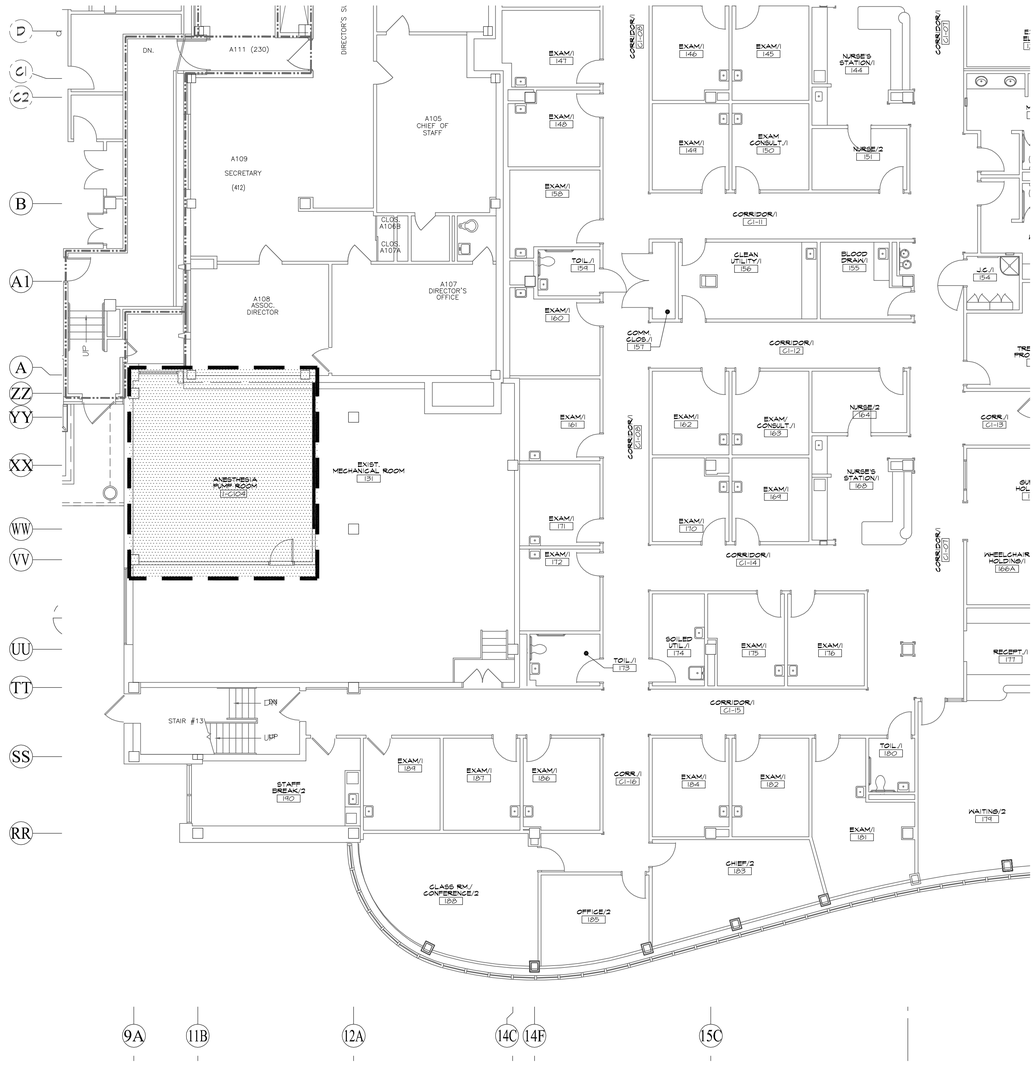


PARTIAL FIRST FLOOR FIRE
PROTECTION PLAN - PHASE 1

SCALE: 1/8" = 1'0"

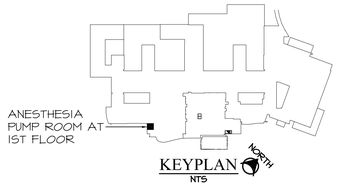
0' 4' 8' 16' 32'

1

ALL OUTLINED AREAS SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 AND VA SPECIFICATIONS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO ACCOMMODATE ANY NEW CEILINGS. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

FIRE SUPPRESSION LEGEND

REWORK EXISTING SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. PROVIDE ALL NEW BRANCH PIPING AND UPRIGHT SPRINKLER HEADS. SPRINKLER PER NFPA 13, ORDINARY HAZARD GROUP 1 OCCUPANCY.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

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Drawing Title: PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: LDH / Drawn By: RPH	Drawing Number: 1-FP1-1

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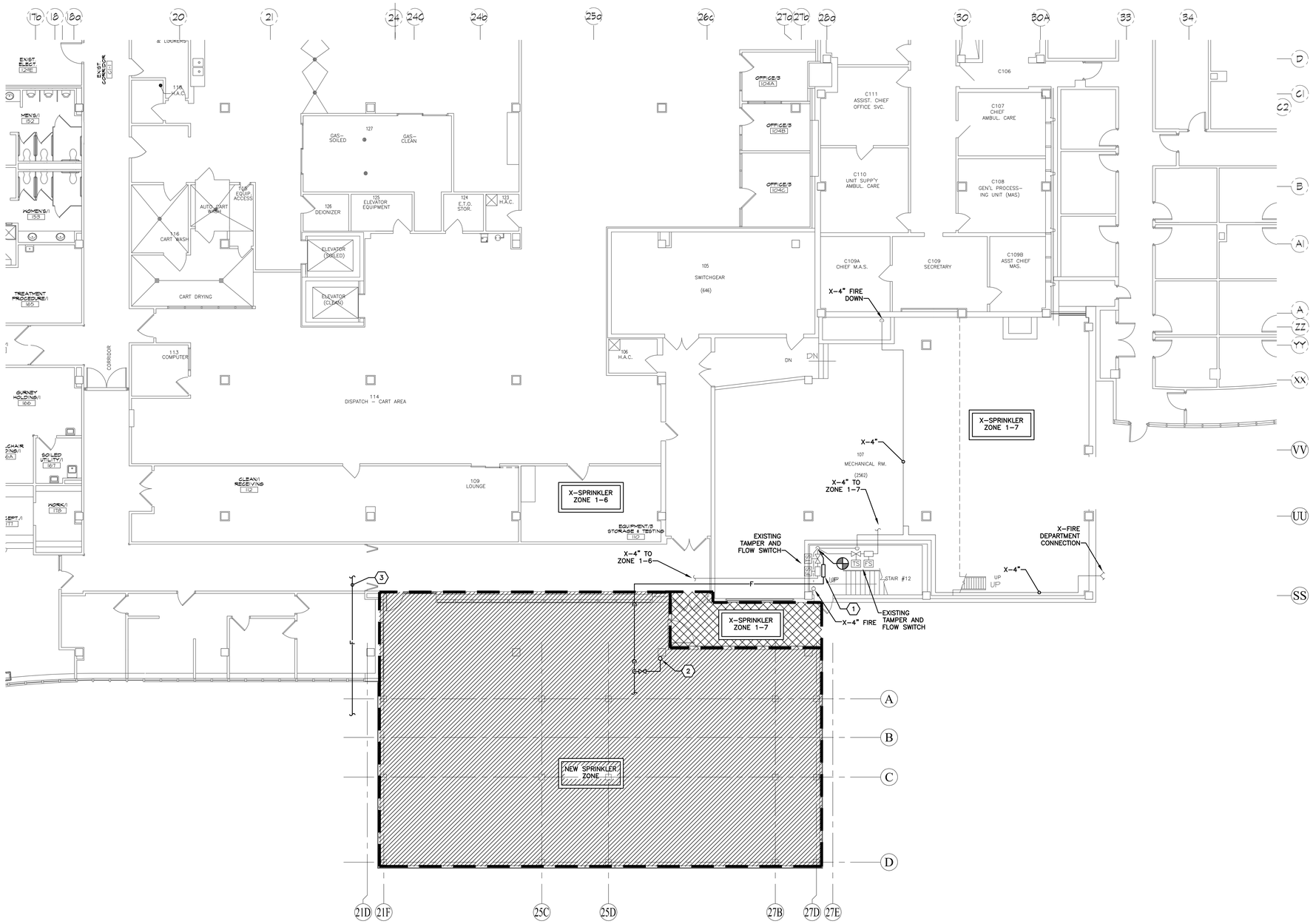


PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

ALL OUTLINED AREAS SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 AND VA SPECIFICATIONS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO ACCOMMODATE ANY NEW CEILINGS. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

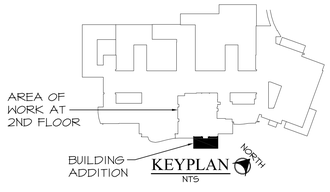
FIRE SUPPRESSION LEGEND

PROVIDE NEW SPRINKLER MAIN AND BRANCH PIPING IN OUTLINED AREA TO ACCOMMODATE BUILDING ADDITION AND OUTLINED AREA OF EXISTING BUILDING. PROVIDE UPRIGHT SPRINKLER HEADS FOR SHELL SPACE. SPRINKLER PER NFPA 13, ORDINARY HAZARD GROUP 2 OCCUPANCY.

PROVIDE NEW DRY HORIZONTAL SIDEWALL SPRINKLER HEADS FOR COVERED EXTERIOR AREA. DRY SPRINKLERS SHALL BE PIPED TO NEW WET SPRINKLER ZONE MAIN PIPING INSIDE BUILDING. INSULATE DRY BARREL. PROVIDE ESCUTCHEON PLATE AT WALL PENETRATION. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS. INSTALL PER NFPA 13. SPRINKLER PER NFPA 13, LIGHT HAZARD OCCUPANCY.

CODED NOTES:

1. PROVIDE NEW VALVE WITH TAMPER SWITCH AND FLOW SWITCH IN NEW MAIN SERVING BUILDING ADDITION. CONNECT TO EXISTING RISER IN STAIRWELL. REFER TO CONNECTION DETAIL ON DRAWING O-FP1-1. NEW SPRINKLER ZONE SHALL BE SIZED TO ACCOMMODATE BUILDING ADDITION ON FIRST AND SECOND FLOORS.
2. ROUTE SPRINKLER MAIN UP TO SECOND FLOOR OF BUILDING ADDITION. REFER TO DRAWING 1-FP1-3 FOR ADDITIONAL INFORMATION.
3. REMOVE SPRINKLER BRANCH, VALVE, ETC. SERVING MRI TRAILER. REMOVE PIPING BACK TO ACTIVE MAIN AND CAP. CONTRACTOR SHALL FIELD VERIFY EXACT REQUIREMENTS AND LOCATIONS.



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FINAL BID DOCUMENTS	03-16-12
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Drawing Title: PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - PHASE 1

Approved: Project Director

Project Title: SURGERY ADDITION

Project Number: 541-364

Building Number:

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: LDH | Drawn By: RPH

Drawing Number: 1-FP1-2

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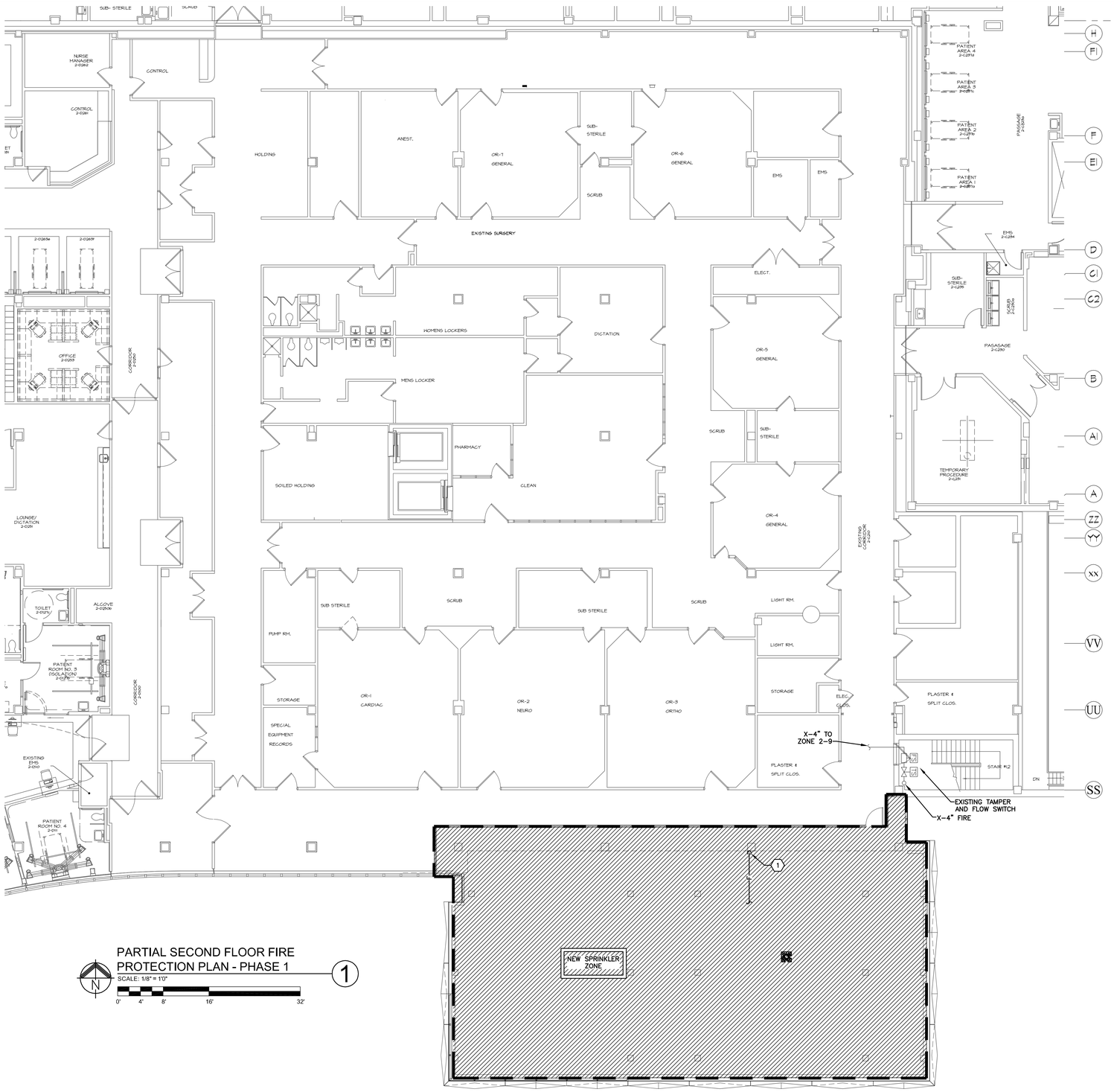


PARTIAL SECOND FLOOR FIRE PROTECTION PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

ALL OUTLINED AREAS SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 AND VA SPECIFICATIONS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO ACCOMMODATE ANY NEW CEILINGS. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

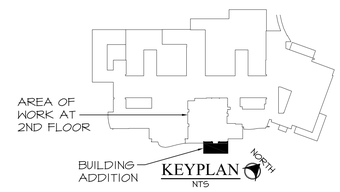
FIRE SUPPRESSION LEGEND

PROVIDE NEW SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE BUILDING ADDITION. PROVIDE ALL NEW BRANCH PIPING WITH UPRIGHT SPRINKLER HEADS FOR SHELL SPACE. SPRINKLER PER NFPA 13, LIGHT HAZARD OCCUPANCY.

NOTE: SPRINKLER COVERAGE FOR SECOND FLOOR SHELL SPACE (FED FROM FIRST FLOOR) IS TEMPORARY UNTIL PHASE 3 BUILD-OUT OF THIS AREA.

CODED NOTES:

(1) SPRINKLER MAIN DOWN TO FIRST FLOOR. REFER TO DRAWING 1-FP1-2 FOR CONTINUATION.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

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Drawing Title: PARTIAL SECOND FLOOR FIRE PROTECTION PLAN - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-FP1-3
	Date: 03-16-12	Checked By: LDH	Drawn By: RPH

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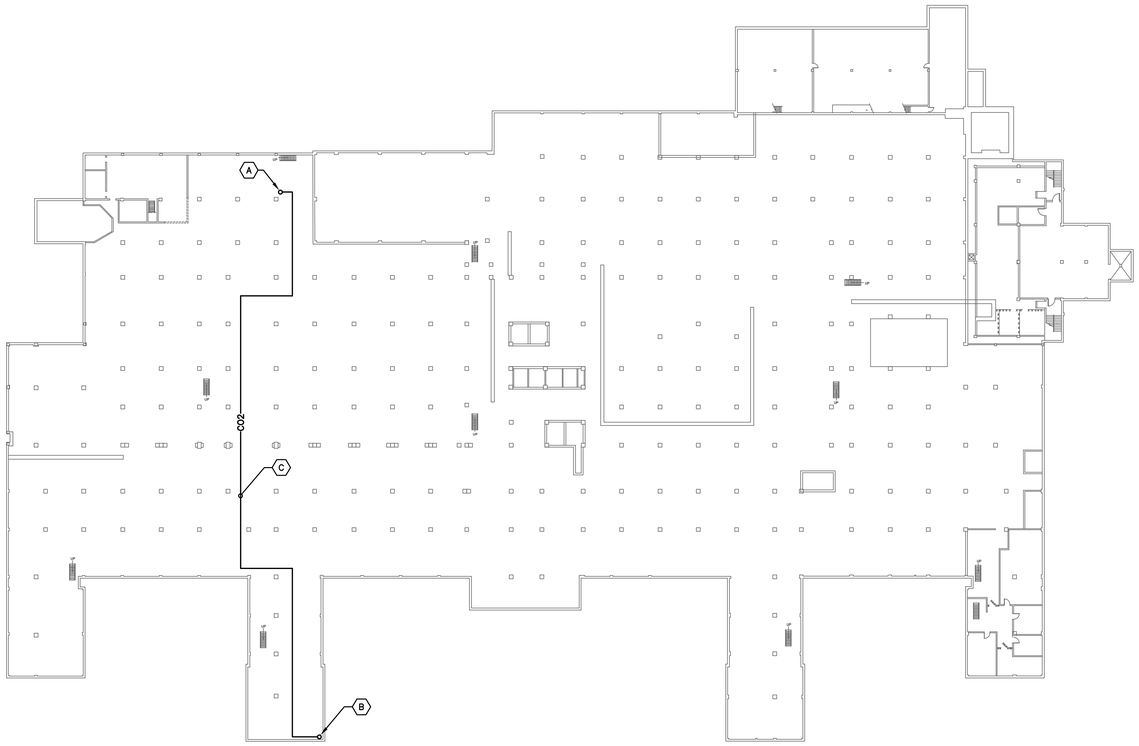
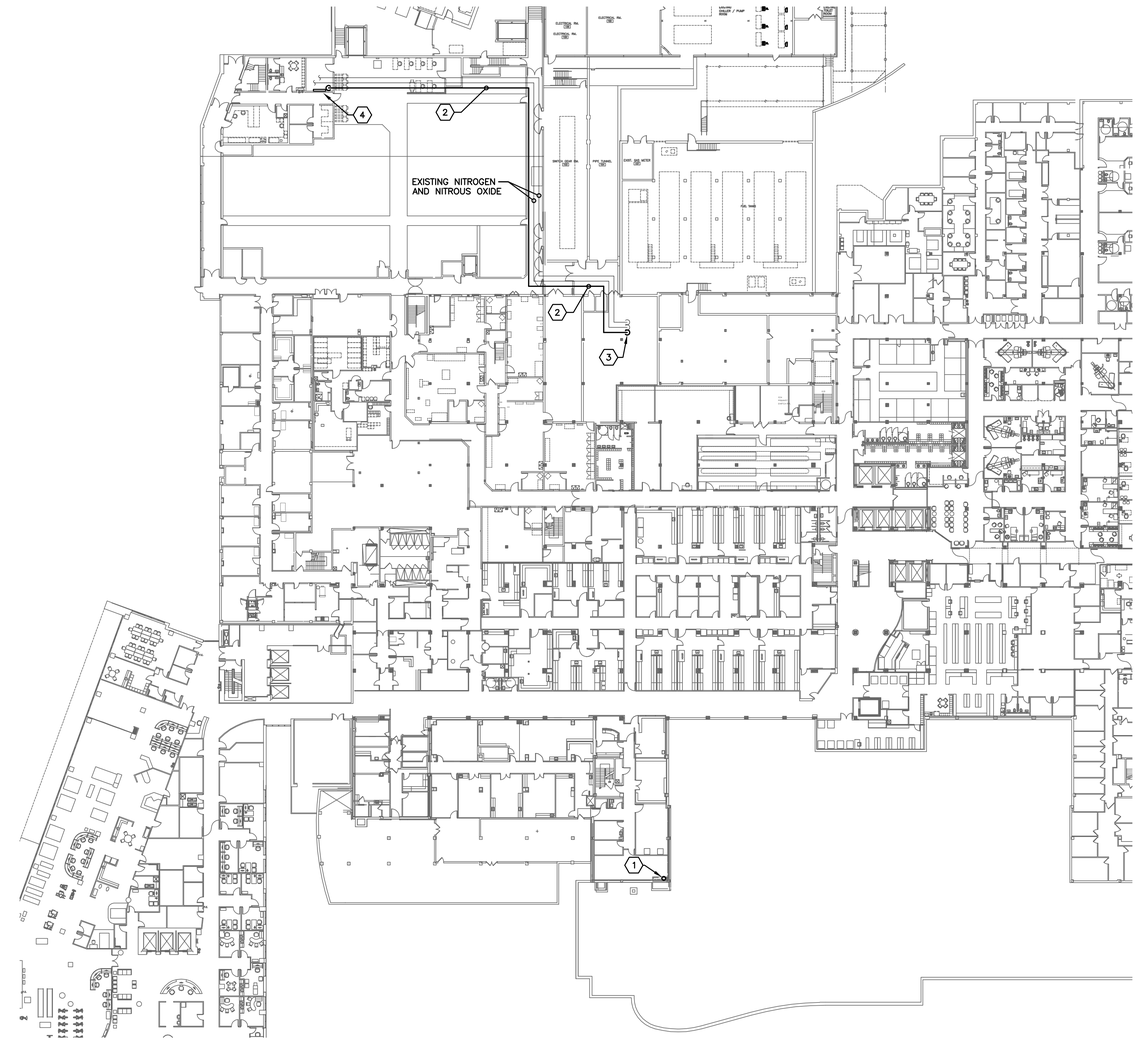


PARTIAL SUB-BASEMENT
MEDICAL GAS PLAN - PHASE 1 (1)
SCALE: 1/32" = 1'0"
0' 16' 32' 64' 128'



PARTIAL BASEMENT MEDICAL
GAS PLAN - PHASE 1 (2)
SCALE: 1/32" = 1'0"
0' 16' 32' 64' 128'

CODED NOTES (SUB-BASEMENT):

- (A) NEW 1" CARBON DIOXIDE SUPPLY LINE UP TO BASEMENT. REFER TO BASEMENT PLAN (THIS DWG) FOR CONTINUATION.
- (B) NEW 1" CARBON DIOXIDE UP TO FIRST FLOOR.
- (C) FIELD VERIFY EXISTING CONDITIONS IN SUB-BASEMENT. CONTRACTOR SHALL PROVIDE 500 FT OF PIPING AND ALL ELBOWS AND OFFSETS AS REQUIRED TO ROUTE THROUGH SUB-BASEMENT.

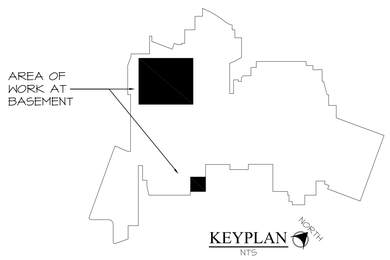
GENERAL NOTES:

A. SUB-BASEMENT IS A CRAWL SPACE WITH APPROXIMATELY FOUR (4) FEET OR LESS OF HEIGHT CLEARANCE. ACCESS TO SUB-BASEMENT CAN BE ACHIEVED THROUGH STAIR NUMBER THREE (3), STAIR NUMBER FOUR (4), STAIR NUMBER FIVE (5), STAIR NUMBER SIX (6), AND/OR MECHANICAL ROOM D-20.

B. CONTRACTOR SHALL FIELD VERIFY PIPE ROUTING. CONTRACTOR SHALL SUBMIT PROPOSED ROUTING TO ENGINEER AND VA COTR FOR REVIEW PRIOR TO INSTALLATION.

CODED NOTES (BASEMENT):

- (1) NEW 1" CARBON DIOXIDE FROM SUB-BASEMENT TO FIRST FLOOR MECHANICAL ROOM 131. REFER TO DWG 1-MG1-2 FOR CONTINUATION.
- (2) ROUTE NEW 1" CARBON DIOXIDE MEDICAL GAS PIPING ALONGSIDE EXISTING NITROUS OXIDE AND NITROGEN MEDICAL GASES.
- (3) NEW CARBON DIOXIDE PIPE TO SUB-BASEMENT. REFER TO SUB-BASEMENT PLAN (THIS DWG) FOR CONTINUATION.
- (4) 1" CO2 TO NEW CO2 MANIFOLD. COORDINATE MANIFOLD LOCATION WITH EXISTING MANIFOLDS.



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Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

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Drawing Title: PARTIAL SUB-BASEMENT AND BASEMENT MEDICAL GAS PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: LDH / Drawn By: RPH	Drawing Number: 1-MG1-1

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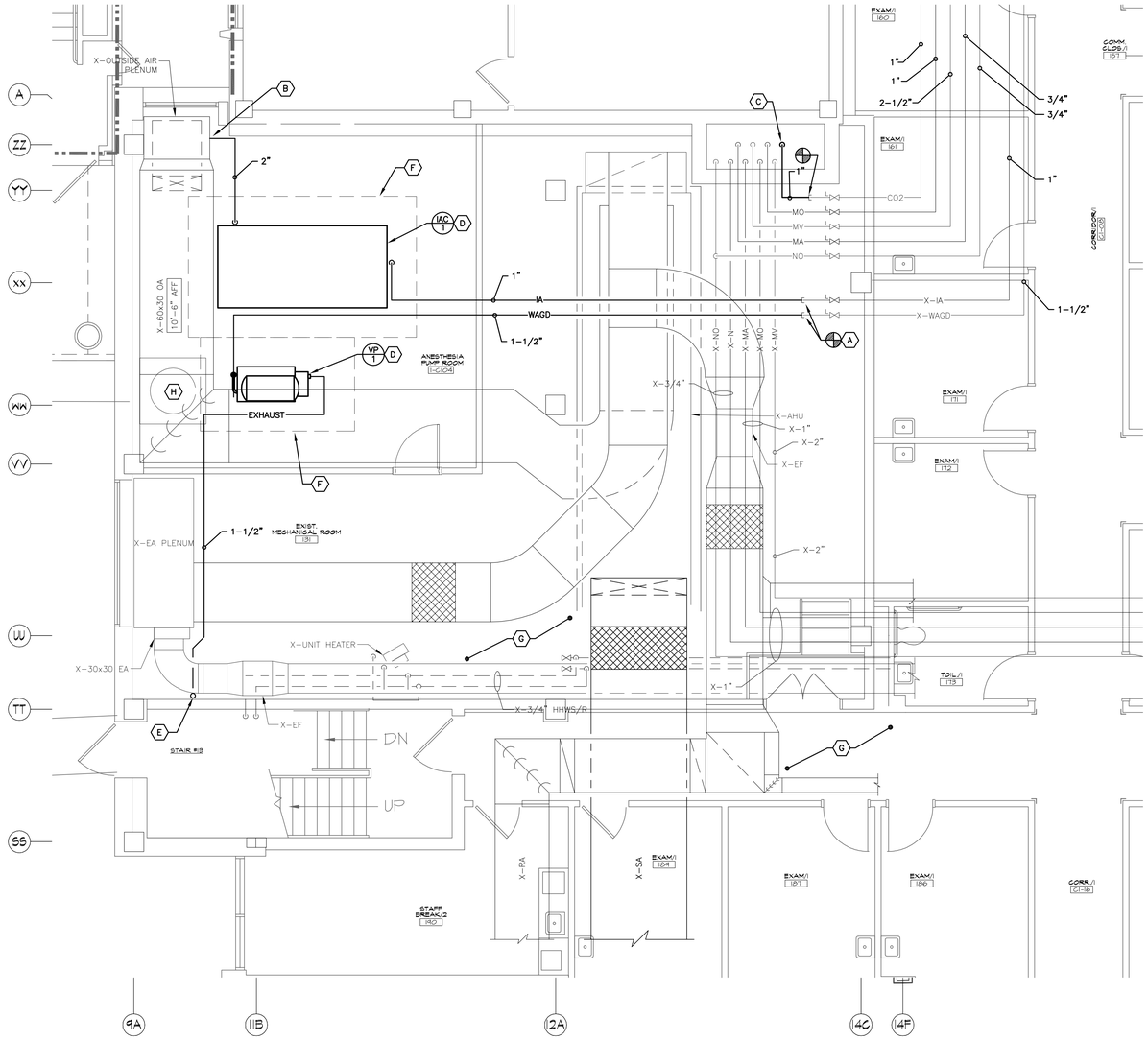
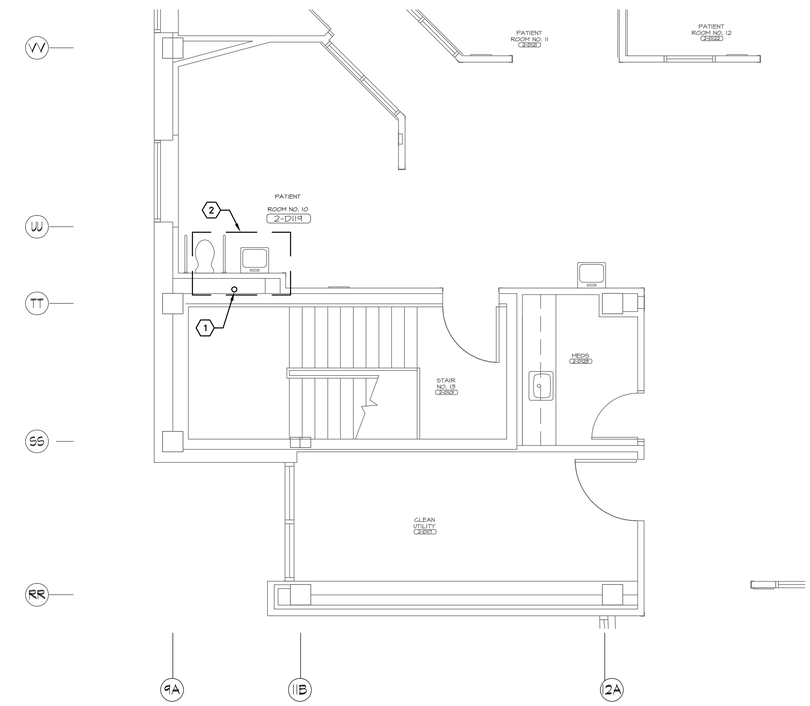


PARTIAL FIRST FLOOR
MEDICAL GAS PLAN - PHASE 1
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



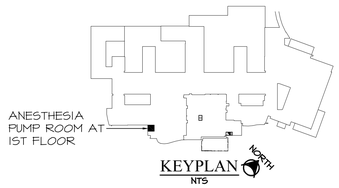
PARTIAL SECOND FLOOR
MEDICAL GAS PLAN - PHASE 1
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'

CODED NOTES (FIRST FLOOR):

- A CONNECT NEW IA AND WAGD SOURCE PIPING TO EXISTING CAPPED MAINS.
- B CONNECT 2" INSTRUMENT AIR COMPRESSOR INTAKE TO EXISTING OUTSIDE AIR INTAKE PLENUM. SEAL PENETRATION AIR TIGHT. PROVIDE INSECT SCREEN ON INTAKE.
- C 1" CO2 SUPPLY PIPE DOWN TO SUB-BASEMENT. COORDINATE PIPE ROUTING WITH ALL OTHER EXISTING PIPE RISERS. REFER TO DRAWING 1-MG1-1 FOR CONTINUATION.
- D MOUNT EQUIPMENT ON 4-INCH THICK CONCRETE PAD.
- E 1-1/2" WASTE ANESTHESIA GAS DISPOSAL EXHAUST FROM VACUUM PUMP VP-1 TO ROOF.
- F MANUFACTURER RECOMMENDED EQUIPMENT ACCESS TO BE MAINTAINED.
- G CONTRACTOR SHALL VERIFY FIELD CONSTRAINTS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- H COORDINATE NEW EQUIPMENT LAYOUT WITH EXISTING NEUTRALIZATION TANK. FIELD VERIFY EXISTING CONDITIONS.

CODED NOTES (SECOND FLOOR):

1. ROUTE 1-1/2" WASTE ANESTHESIA GAS DISPOSAL EXHAUST THROUGH EXISTING PLUMBING CHASE UP TO ROOF. VENT TERMINATION SHALL BE A MINIMUM OF 25'-0" FROM ANY BUILDING INTAKE OR WINDOW.
2. CONTRACTOR SHALL CUT AND PATCH WALL FOR INSTALLATION OF NEW EXHAUST PIPE. REMOVE AND REINSTALL EXISTING PLUMBING FIXTURES AS REQUIRED FOR INSTALLATION. UPON COMPLETION, PROVIDE FINISH CORNER TO CORNER. FINISH SHALL MATCH EXISTING. WORK SHALL BE PERFORMED DURING UNOCCUPIED HOURS. COORDINATE WORK WITH VA COTR.



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CONSULTANTS:

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Drawing Title: PARTIAL MEDICAL GAS FLOOR PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-MG1-2
	Date: 03-16-12	Checked By: LDH / Drawn By: RPH	

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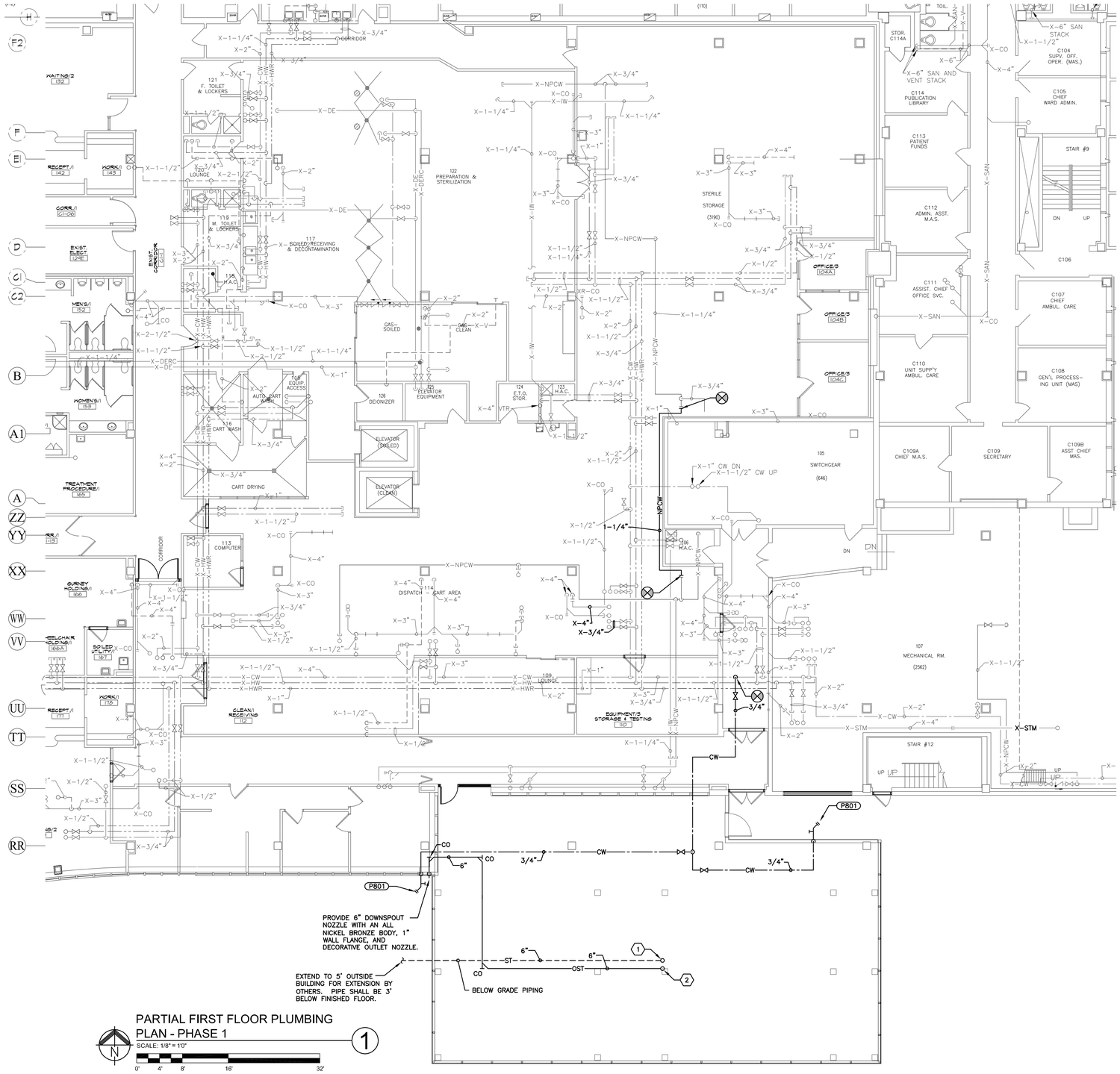
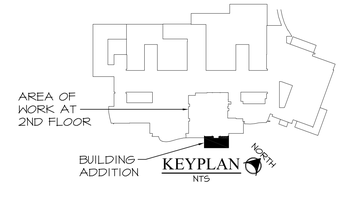


PARTIAL FIRST FLOOR PLUMBING PLAN - PHASE 1

SCALE: 1/8" = 1'0"

CODED NOTES:

1. 6" STORM RISER UP TO SECOND FLOOR.
2. 6" OST UP TO SECOND FLOOR.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

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Drawing Title: PARTIAL FIRST FLOOR PLUMBING PLAN - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number
	Date: 03-16-12	Checked By: LDH / Drawn By: MNH	Drawing Number: 1-P1-1

Office of Construction and Facilities Management

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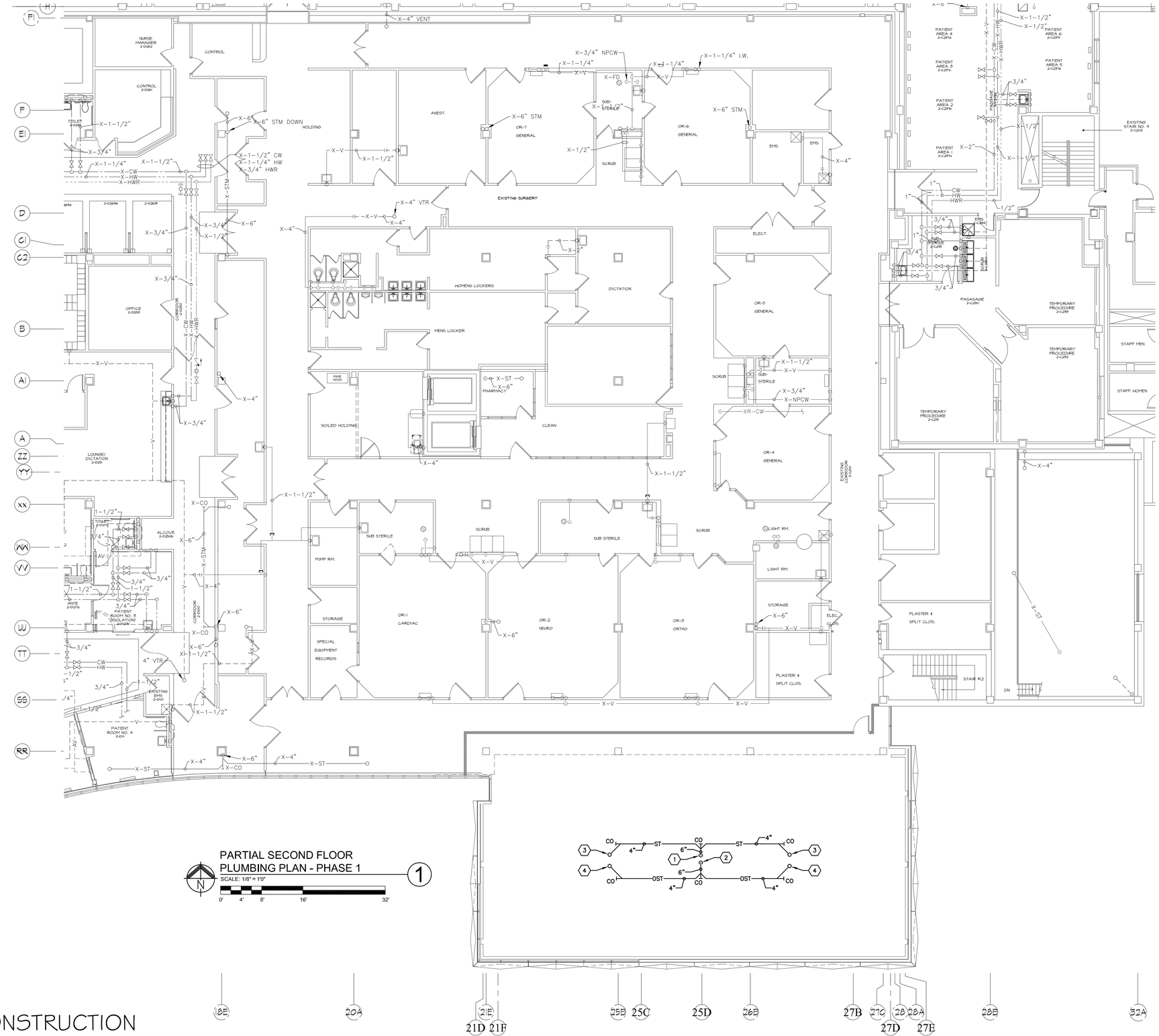


PARTIAL SECOND FLOOR PLUMBING PLAN - PHASE 1

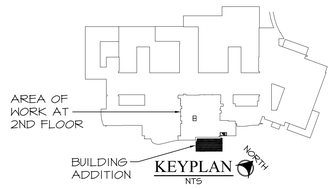
SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

CODED NOTES:

1. 6" STORM DOWN TO FIRST FLOOR. REFER TO DRAWING 1-P1-1 FOR CONTINUATION.
2. 6" STORM OVERFLOW TO FIRST FLOOR. REFER TO DRAWING 1-P1-1 FOR CONTINUATION.
3. 4" STORM PIPE UP TO ROOF DRAIN RD-1.
4. 4" STORM OVERFLOW PIPE UP TO OVERFLOW ROOF DRAIN ORD-1.



KEYPLAN
NTS

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Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: LDH	Drawing Number: 1-P1-2
		Drawn By: MNH	

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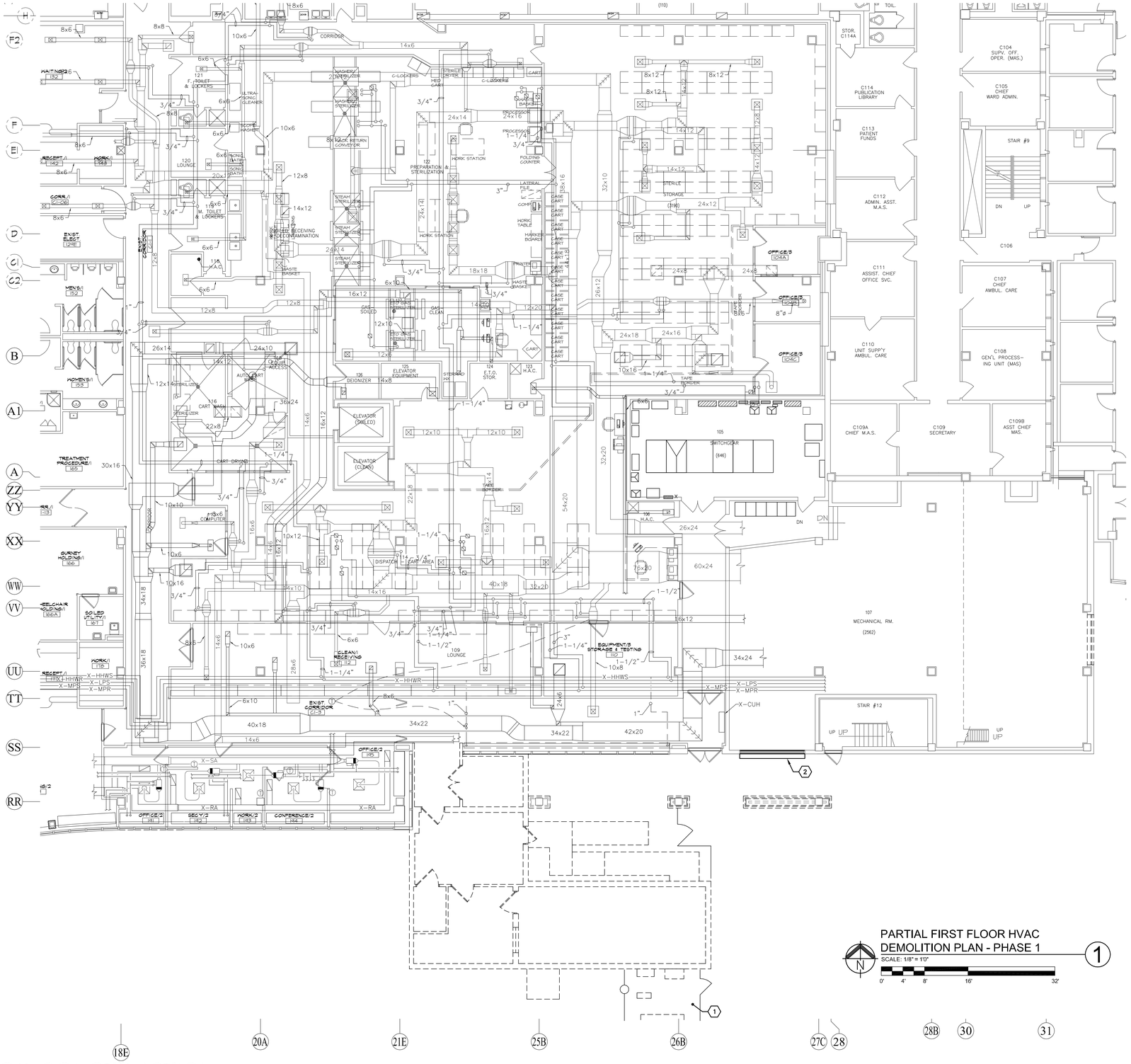


GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR PHASING / ACCESSIBILITY OF WORK OCCURRING IN SPD DEPARTMENT.

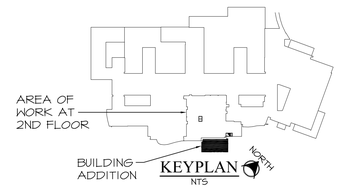
CODED NOTES:

1. EXISTING MRI TRAILER HVAC EQUIPMENT SHALL BE REMOVED WITH BUILDING.
2. CONTRACTOR SHALL PROVIDE MAXIMUM 12" DEEP FILTER FRAME FULL SIZE OF EXISTING INTAKE LOUVER (APPROXIMATELY 12'-0" W x 4'-0" T). CONTRACTOR SHALL INSTALL 1" THICK 20% EFFICIENT THROWAWAY FILTERS IN FRAME. CONTRACTOR SHALL REPLACE FILTERS DAILY THROUGHOUT DEMOLITION AND CONSTRUCTION OF PHASE 1. UPON COMPLETION OF PHASE 1, FRAME SHALL BE REMOVED. COORDINATE WITH VA COTR.

PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'



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Drawing Title: PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-H1-1
	Date: 03-16-12	Checked By: LDH	Drawn By: LDH

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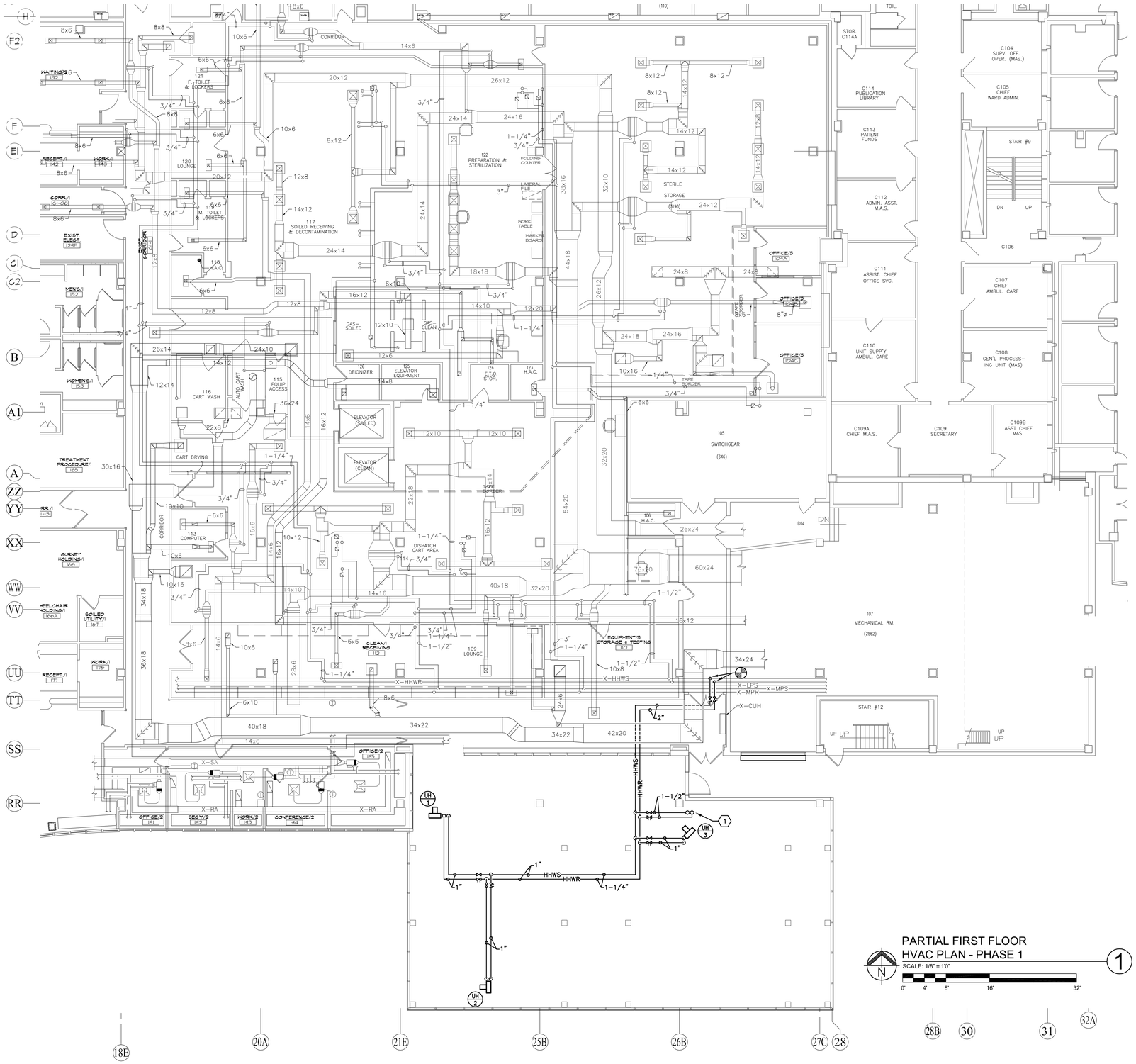


PARTIAL FIRST FLOOR HVAC PLAN - PHASE 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

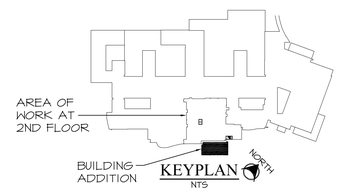
1

GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR PHASING / ACCESSIBILITY OF WORK OCCURRING IN SPD DEPARTMENT.

CODED NOTES:

1 1-1/2" HHWS/R PIPES UP TO SECOND FLOOR SHELL SPACE.



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			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-H2-1
	Date: 03-16-12	Checked By: LDH / Drawn By: LDH	

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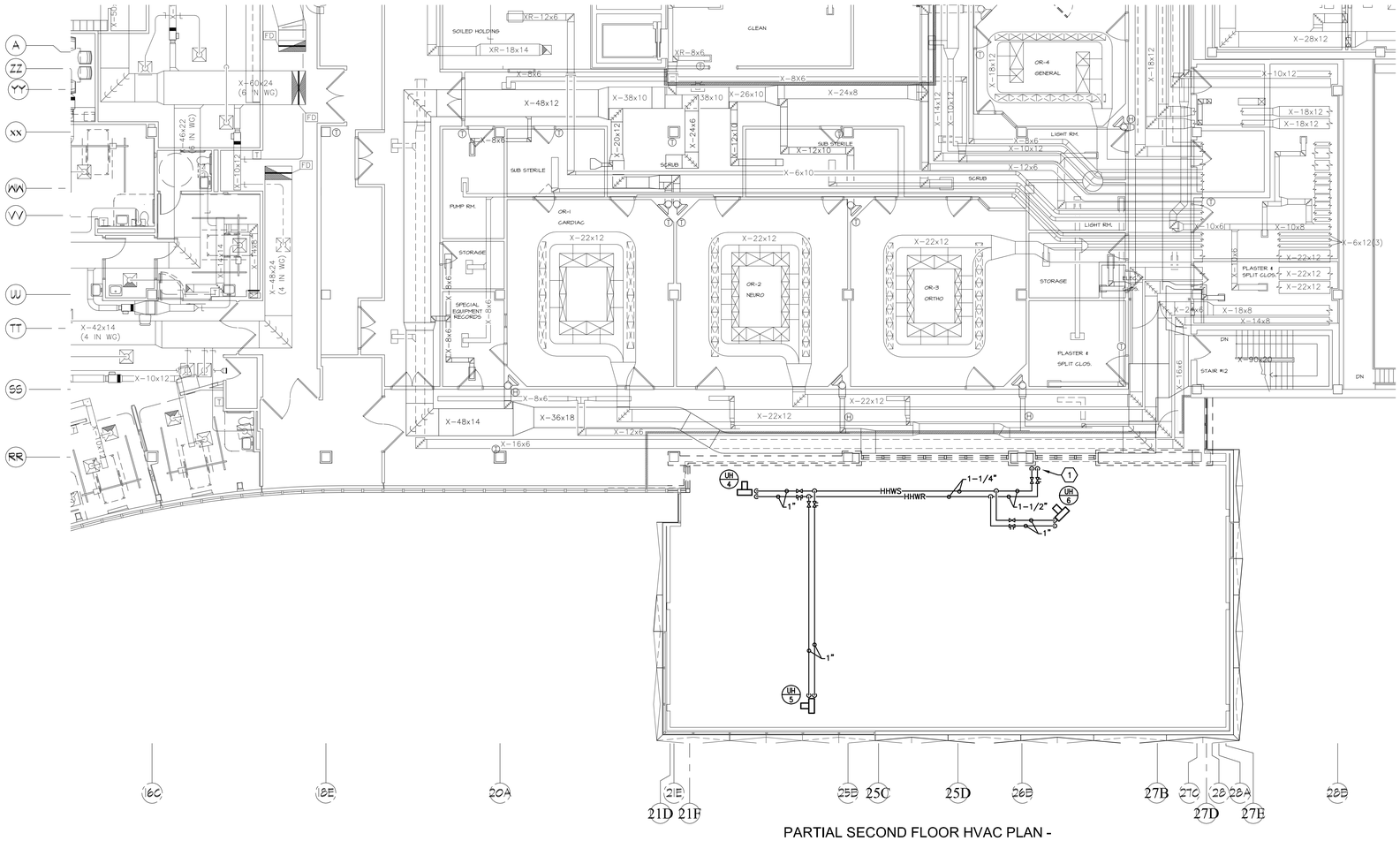


PARTIAL SECOND FLOOR HVAC PLAN - PHASE 1

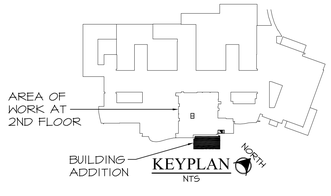
SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

CODED NOTES:

1 1-1/2" HHWS/R PIPES DOWN TO FIRST FLOOR SHELL SPACE. COORDINATE PENETRATION WITH STRUCTURE.



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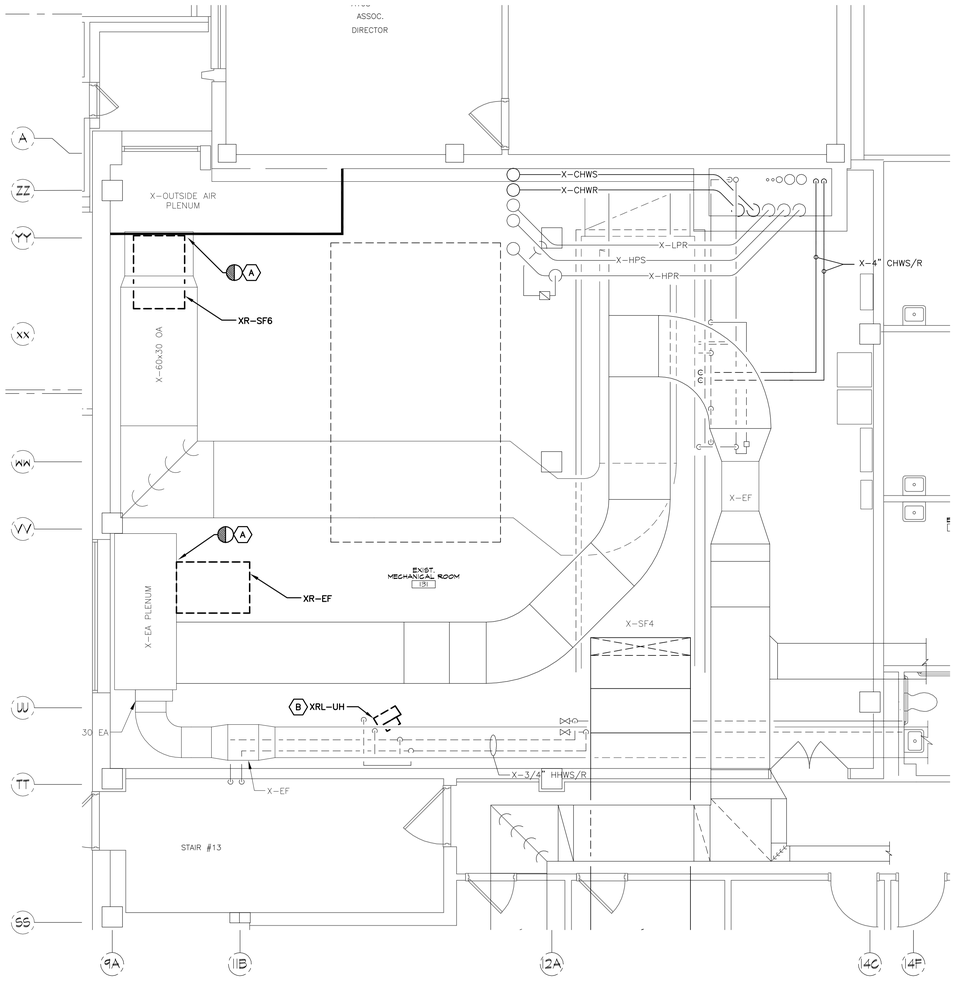
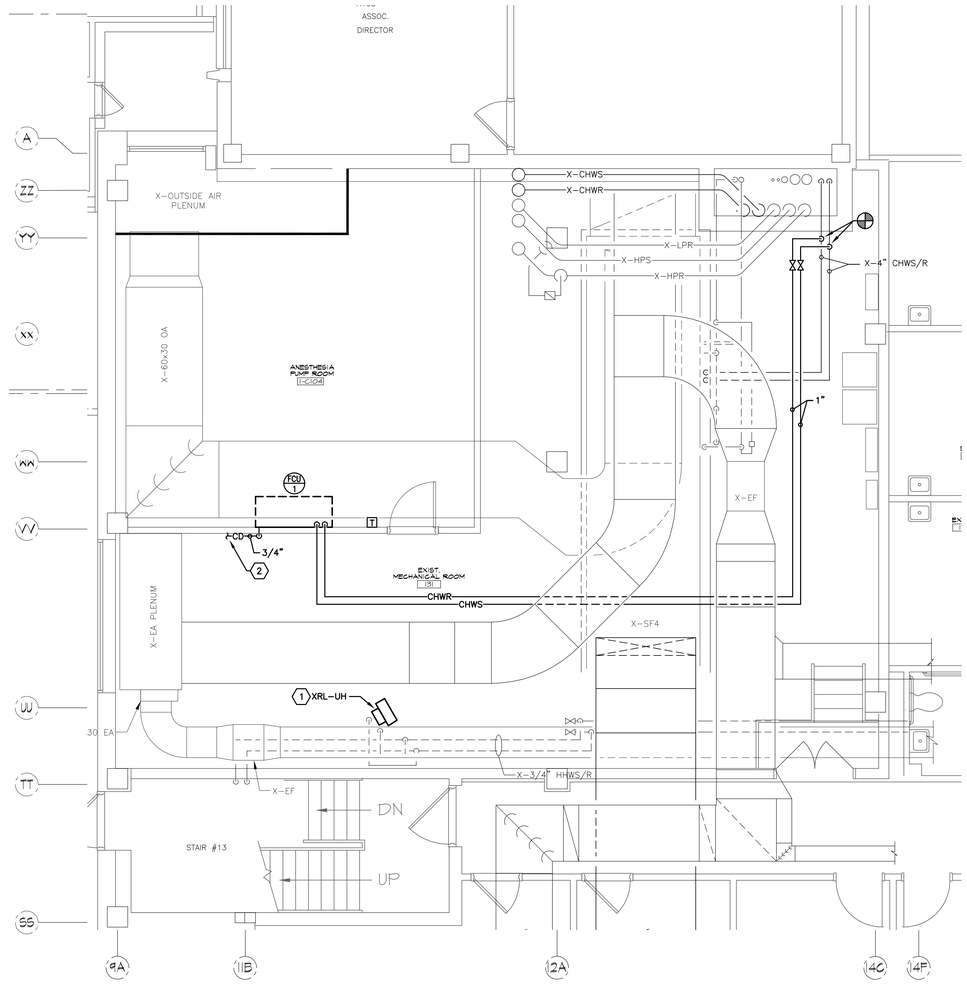


ENLARGED MECHANICAL ROOM 131
HVAC DEMOLITION PLAN
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'
1



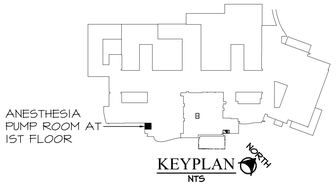
ENLARGED MECHANICAL ROOM 131
HVAC PLAN
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'
2

CODED NOTES (DEMOLITION):

- A CAP EXISTING PLENUM AT LOCATION OF REMOVED FAN. PATCH WITH INSULATED PANEL (SEMCO OR EQUAL).
- B EXISTING UNIT HEATER TO BE RE-POSITIONED. REFER TO NEW PLAN FOR ADDITIONAL INFORMATION.

CODED NOTES:

- 1 RELOCATED UNIT HEATER. REWORK HHW PIPING AS REQUIRED. EXTEND BRANCH LINES AS REQUIRED TO MAKE CONNECTIONS.
- 2 ROUTE 3/4" CONDENSATE ALONG WALL AND SPILL TO LOCAL FLOOR DRAIN. FIELD VERIFY EXISTING CONDITIONS.



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Drawing Title: ENLARGED MECHANICAL ROOM 131 PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
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	Date: 03-16-12	Checked By: LDH / Drawn By: LDH	Drawing Number: 1-H3-1

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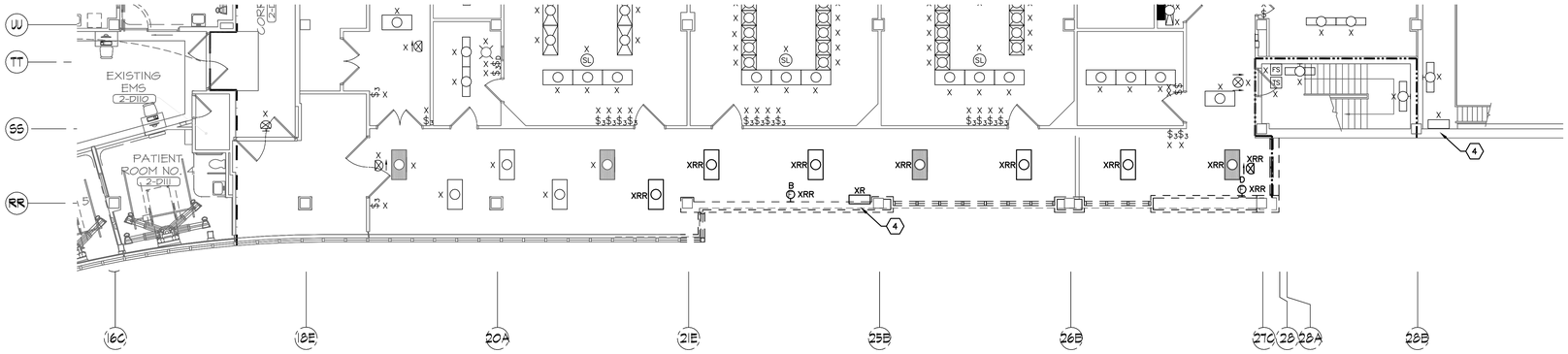
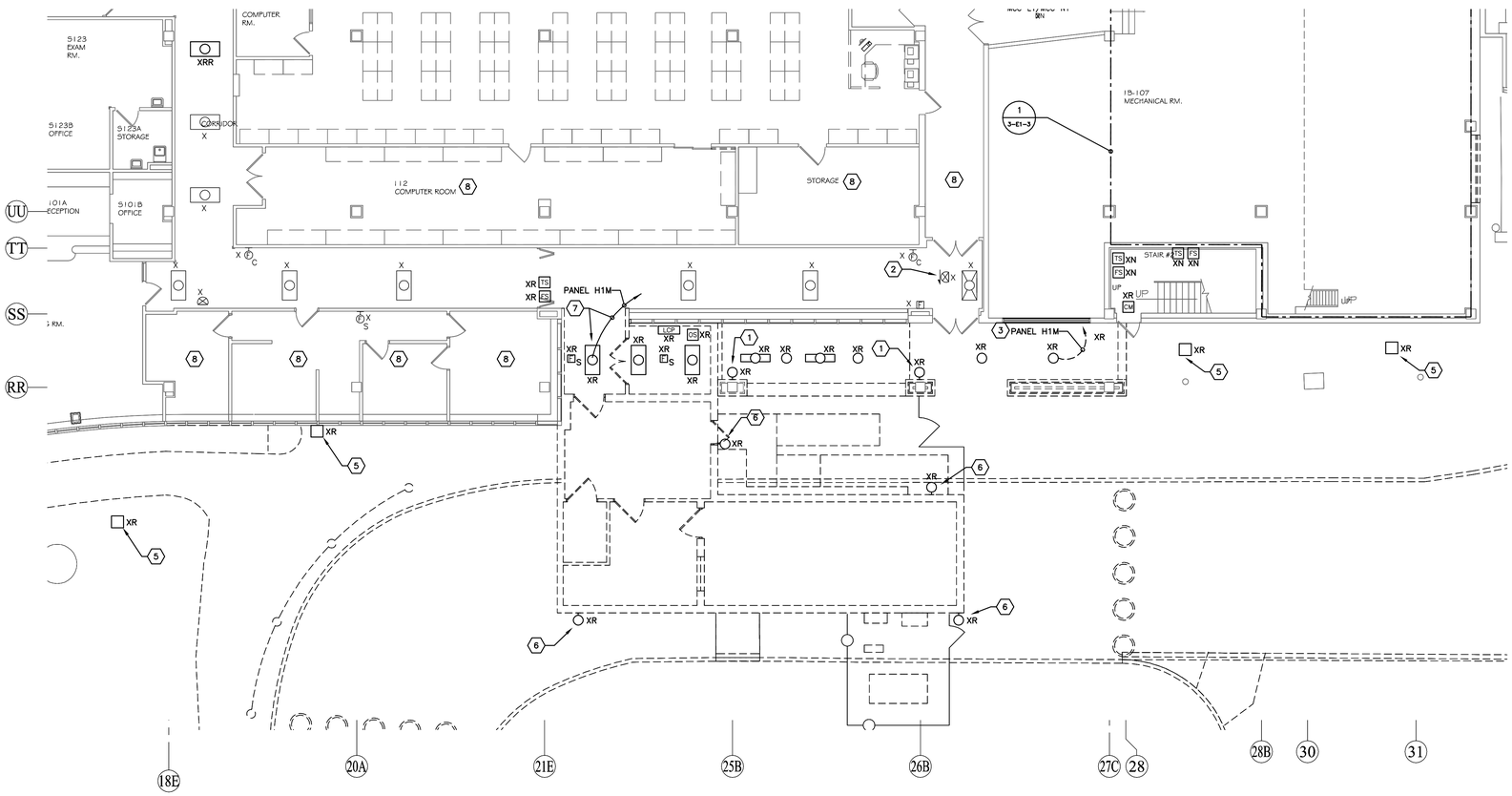


PARTIAL SECOND FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN - PHASE 1 — 2

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'



PARTIAL FIRST FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN - PHASE 1 — 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

ELECTRICAL DEMOLITION GENERAL NOTES:

D1. ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, SPECIAL SYSTEMS OUTLETS, CONDUIT, WIRING ETC. THAT WILL NOT BE REUSED IN THE REMODELED INSTALLATION SHALL BE REMOVED UNLESS OTHERWISE NOTED. THIS DEMOLITION SHALL INCLUDE ALL ELECTRICAL ITEMS SHOWN ON THIS PLAN THAT ARE NOT DESIGNATED BY "X", "XN" OR "XRR" AND ALL OTHER ADDITIONAL ITEMS THAT ARE NOT SHOWN BUT THAT MUST BE REMOVED IN ORDER TO PRODUCE A NEAT, FINISHED, PROPERLY FUNCTIONING ELECTRICAL INSTALLATION. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REUSED ELECTRICAL SYSTEMS COMPONENTS – PROVIDE ALL CONDUIT AND WIRING NECESSARY TO ACHIEVE THE SAME. THE CONTRACTOR SHALL FIELD VERIFY THE NATURE AND EXTENT OF ALL DEMOLITION WORK AND SHALL INCLUDE COST FOR THE SAME IN THE BID SUBMITTAL.

D2. ALL EXISTING REMOVED ELECTRICAL EQUIPMENT, DEVICES, ETC. THAT ARE NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

D3. DASHED WALLS ON PLAN INDICATE EXISTING CONSTRUCTION TO BE REMOVED.

D4. REFER TO ELECTRICAL LEGEND FOR ALL SYMBOL DESIGNATIONS. NOTE SPECIAL ATTENTION TO SELECTED EXISTING DEVICES, WIREWAYS, ETC. MARKED XB, XRR OR XN, AND REMOVE/BLANK OFF, RELOCATE OR REPLACE THESE COMPONENTS AS REQUIRED.

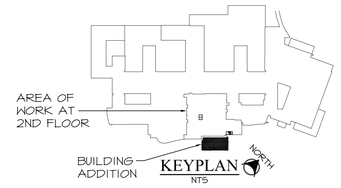
D5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.

D6. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH THE GENERAL AND MECHANICAL CONTRACTORS, AND SHALL DISCONNECT ALL REQUIRED CIRCUITS IN A TIMELY MANNER.

D7. CONTACT THE ENGINEER IF A QUESTION SHOULD ARISE CONCERNING THE STATUS OF ANY OUTLET, DEVICE, LIGHTING FIXTURE, ETC.

CODED NOTES:

1. REMOVE EXTERIOR LIGHTING FIXTURE. MAINTAIN CONTINUITY TO REMAINING FIXTURES ON SAME CIRCUIT (PANEL LIM)
2. PROVIDE TEMPORARY COVERING OF EXIT SIGN DURING CONSTRUCTION – REMOVE COVERING ONCE ENTRANCE HAS BEEN OPENED.
3. REFER TO FIRST FLOOR ELECTRICAL KEY PLAN FOR PANEL LOCATION IN ELECTRICAL ROOM 105.
4. EXISTING AREA LIGHTING FIXTURE MOUNTED ON ROOF OF BUILDING – EXISTING TO REMAIN OR REMOVE AS NOTED.
5. REMOVE EXISTING BOLLARD LIGHTING FIXTURE. MAINTAIN CIRCUIT CONTINUITY TO ANY EXISTING BOLLARDS TO REMAIN.
6. REMOVE EXISTING WALL PACK FIXTURE AND TURN OVER TO OWNER.
7. MAINTAIN BRANCH CIRCUIT FOR LIGHTING REUSE TO SUPPLY NEW LIGHTING IN SHELL AREA.
8. MAINTAIN EXISTING LIGHTING FIXTURES INDICATED AREA.



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			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-E1-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

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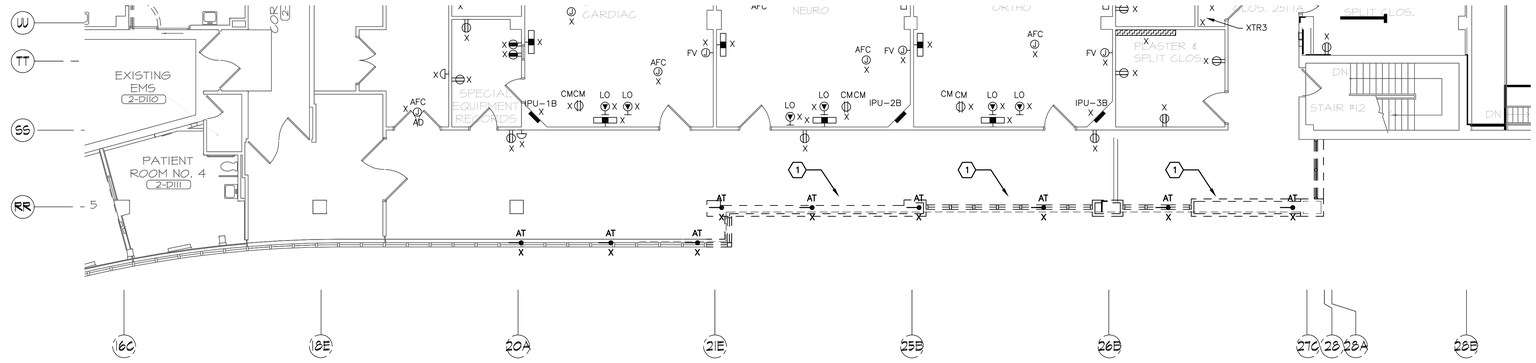
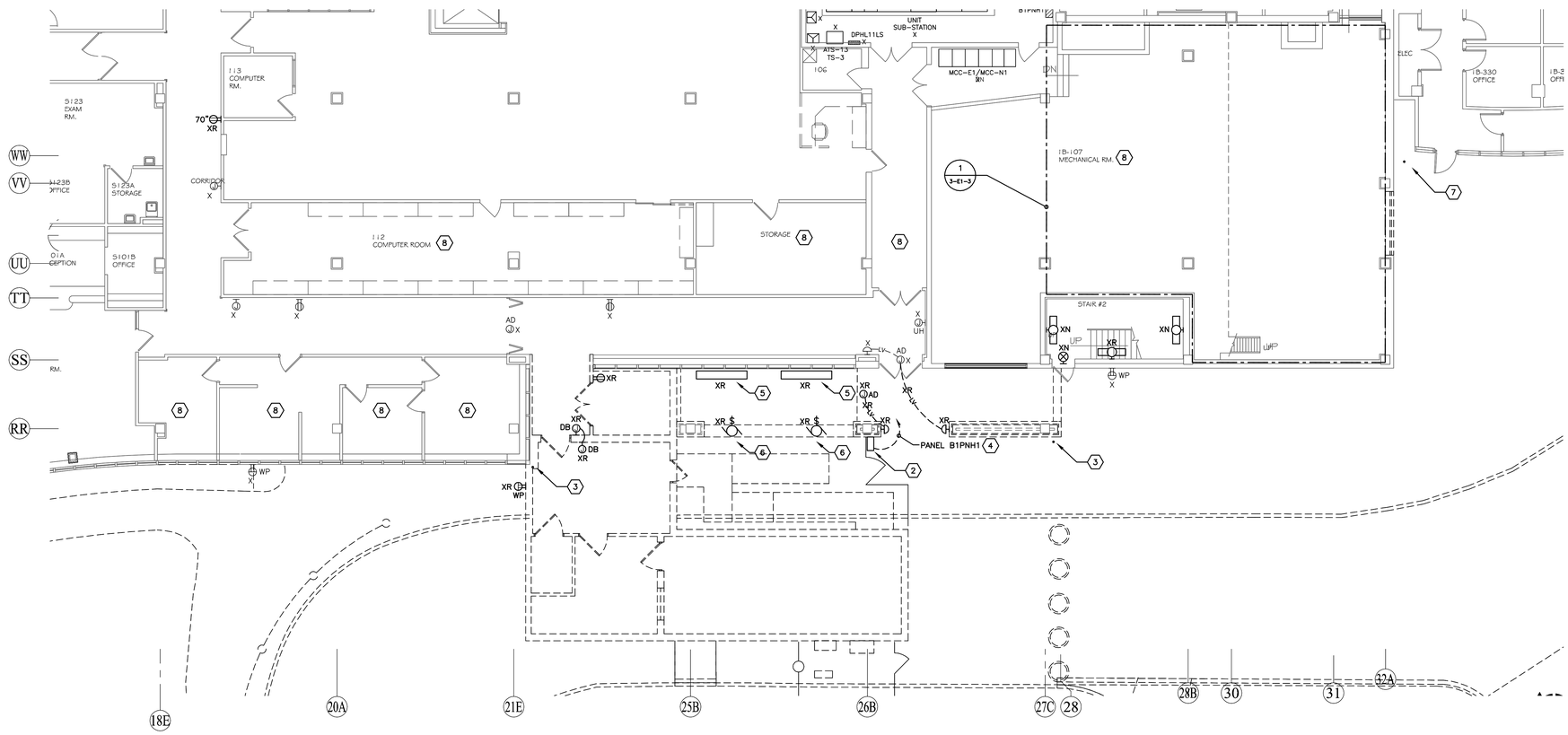


PARTIAL SECOND FLOOR POWER DEMOLITION PLAN - PHASE 1 (2)

SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR POWER DEMOLITION PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

ELECTRICAL DEMOLITION GENERAL NOTES:

D1. ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, SPECIAL SYSTEMS OUTLETS, CONDUIT, WIRING ETC. THAT WILL NOT BE REUSED IN THE REMODELED INSTALLATION SHALL BE REMOVED UNLESS OTHERWISE NOTED. THIS DEMOLITION SHALL INCLUDE ALL ELECTRICAL ITEMS SHOWN ON THIS PLAN THAT ARE NOT DESIGNATED BY "X", "XN" OR "XRR" AND ALL OTHER ADDITIONAL ITEMS THAT ARE NOT SHOWN BUT THAT MUST BE REMOVED IN ORDER TO PRODUCE A NEAT, FINISHED, PROPERLY FUNCTIONING ELECTRICAL INSTALLATION. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REUSED ELECTRICAL SYSTEMS COMPONENTS – PROVIDE ALL CONDUIT AND WIRING NECESSARY TO ACHIEVE THE SAME. THE CONTRACTOR SHALL FIELD VERIFY THE NATURE AND EXTENT OF ALL DEMOLITION WORK AND SHALL INCLUDE COST FOR THE SAME IN THE BID SUBMITTAL.

D2. ALL EXISTING REMOVED ELECTRICAL EQUIPMENT, DEVICES, ETC. THAT ARE NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

D3. DASHED WALLS ON PLAN INDICATE EXISTING CONSTRUCTION TO BE REMOVED.

D4. REFER TO ELECTRICAL LEGEND FOR ALL SYMBOL DESIGNATIONS. NOTE SPECIAL ATTENTION TO SELECTED EXISTING DEVICES, WIREWAYS, ETC. MARKED XB, XRR OR XN, AND REMOVE/BLANK OFF, RELOCATE OR REPLACE THESE COMPONENTS AS REQUIRED.

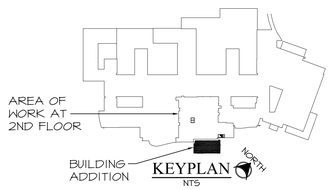
D5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.

D6. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH THE GENERAL AND MECHANICAL CONTRACTORS, AND SHALL DISCONNECT ALL REQUIRED CIRCUITS IN A TIMELY MANNER.

D7. CONTACT THE ENGINEER IF A QUESTION SHOULD ARISE CONCERNING THE STATUS OF ANY OUTLET, DEVICE, LIGHTING FIXTURE, ETC.

CODED NOTES:

1. REMOVE OUTLETS ALONG WALL.
2. DISCONNECT AND REMOVE SERVICE TO TEMPORARY MRI BUILDING COMPLETE. CONTRACTOR SHALL VERIFY IF ANY OTHER BRANCH CIRCUITS ARE SEPARATELY SUPPLYING THE BUILDING AND DISCONNECT THEM COMPLETE TO MAKE MRI BUILDING SAFE FOR DEMOLITION.
3. REMOVE LIGHTNING PROTECTION GROUND RING AND GROUND ELECTRODE CONDUCTOR BETWEEN ROOF TO GROUND RING TO ACCOMMODATE NEW BUILDING ADDITION.
4. REFER TO FIRST FLOOR ELECTRICAL KEY PLAN FOR PANEL LOCATION IN ELECTRICAL ROOM 105.
5. REMOVE RADIANT HEATERS SUSPENDED FROM CEILING.
6. REMOVE EXHAUST FAN (120V) TO SOURCE COMPLETE.
7. EXISTING LIGHTNING PROTECTION GROUND ELECTRODE CONDUCTOR BETWEEN ROOF TO GROUND RING – INSTALLED IN EXPOSED CONDUIT.
8. MAINTAIN EXISTING OUTLETS AND BRANCH CIRCUITS FOR INDICATED AREAS UNLESS OTHERWISE NOTED.



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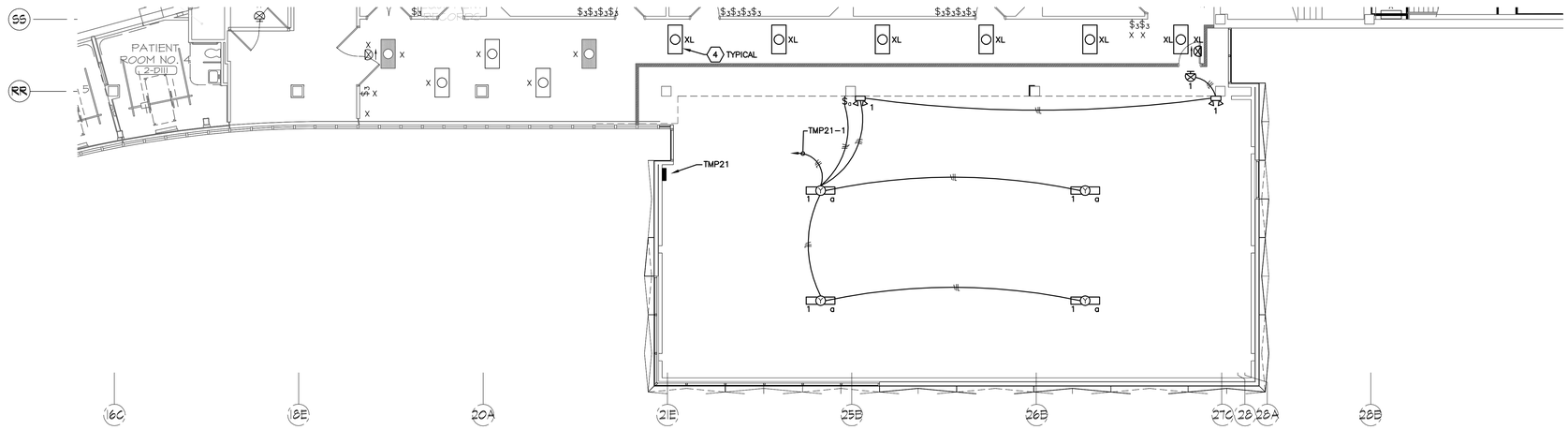
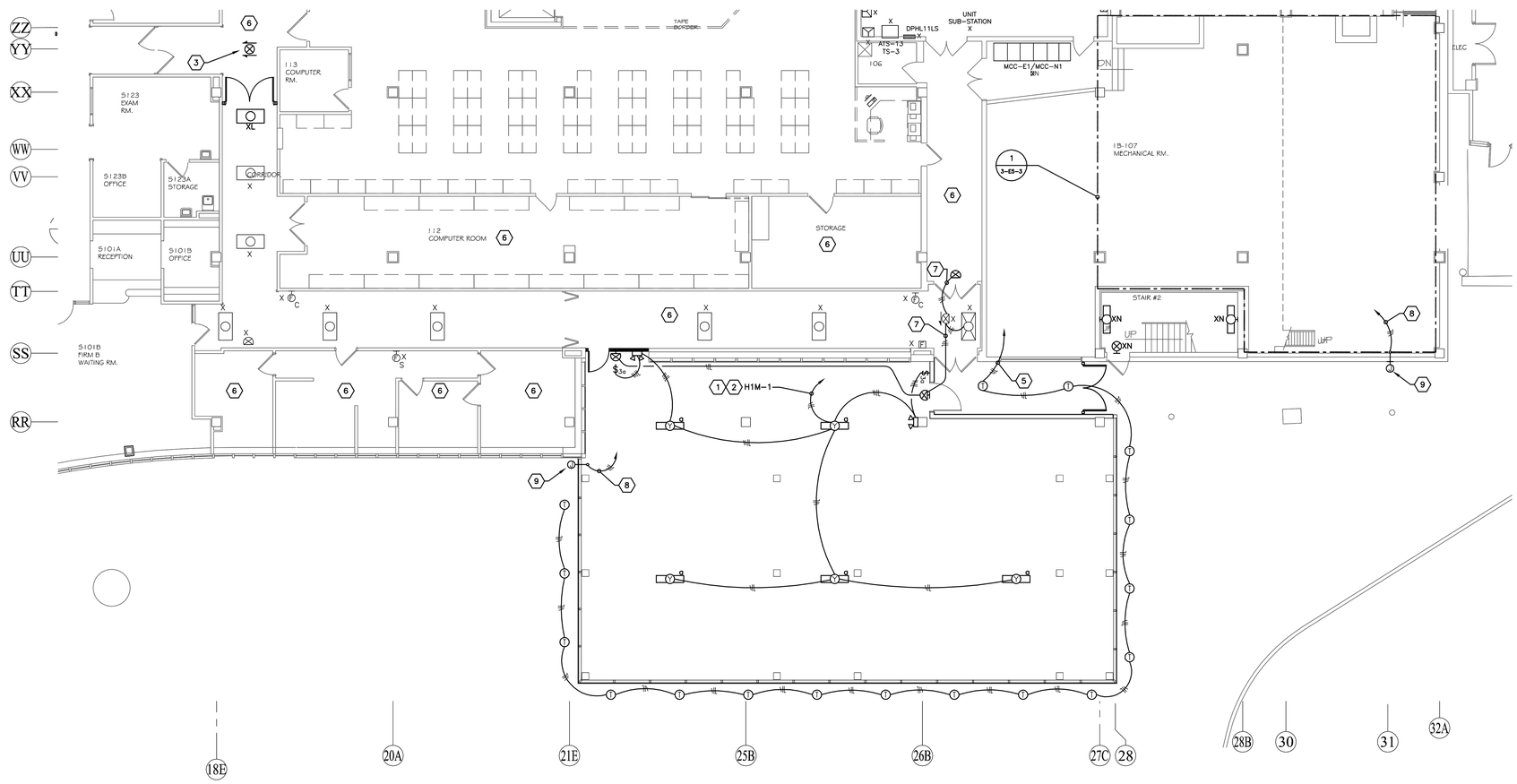


PARTIAL SECOND FLOOR
LIGHTING PLAN - PHASE 1 — 2

SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR
LIGHTING PLAN - PHASE 1 — 1

SCALE: 1/8" = 1'0"

LIGHTING PLAN GENERAL NOTES:

L1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL LOCATION OF ALL NEW CEILING MOUNTED LIGHTING FIXTURES. CLOSELY COORDINATE LOCATION OF LIGHTING FIXTURES AND SMOKE DETECTORS WITH HVAC DUCTS, DIFFUSERS, SPRINKLERS, PLUMBING, ETC. AND ADJUST LOCATIONS OF SELECTED ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ENGINEER'S INSTRUCTIONS.

L2. REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LAYOUT. CLOSELY COORDINATE THE EXACT LOCATION OF ALL OUTLETS AND DEVICES WITH ARCHITECTURAL ELEVATIONS. ADJUST LOCATIONS AND MOUNTING HEIGHTS WHERE NECESSARY TO PREVENT INTERFERENCE WITH FURNITURE, FIXED CASEWORK, EQUIPMENT, ETC. VERIFY ALL CHANGES PRIOR TO ROUGH-IN.

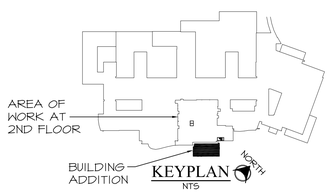
L3. REFER TO ELECTRICAL DETAILS PLANS FOR OCCUPANCY SENSOR WIRING DIAGRAMS AND PROGRAM SCHEDULE FOR ADDITIONAL INFORMATION.

L4. MOUNT WALL SWITCHES AT LEAST 6" AWAY FROM OPEN DOOR SWING – DO NOT MOUNT BEHIND OPEN DOOR SWINGS.

L5. CIRCUIT ASSIGNMENTS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY CIRCUIT AVAILABILITY AND NOTIFY ENGINEER OF ANY DEVIATIONS.

CODED NOTES:

1. REFER TO FIRST FLOOR ELECTRICAL KEYPLAN FOR PANEL LOCATION IN ELECTRICAL ROOM 105.
2. CONNECT NEW LIGHT TO EXISTING BRANCH CIRCUIT (20A-277V) THAT SUPPLIED AREA PRIOR TO DEMOLITION. PROVIDE UPDATED PANEL SCHEDULE.
3. PROVIDE TEMPORARY EXIT SIGN FOR PHASE 1 CONSTRUCTION PERIOD.
4. RELOCATE EXISTING 2'X4' LIGHTING FIXTURES. COORDINATE NEW LOCATIONS WITH EXISTING CONDITIONS.
5. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT CONTROLLED BY TIME CLOCK LOCATED IN ELECTRICAL ROOM 105.
6. MAINTAIN EXISTING LIGHTING FIXTURES INDICATED AREA.
7. CONNECT NEW FIXTURES TO EXISTING LIFE SAFETY CIRCUIT IN CORRIDOR. FIELD VERIFY.
8. INSTALL WIRING TO EXISTING EXTERIOR LIGHTING TIME CLOCK LOCATED IN ELECTRICAL ROOM 105. PROVIDE COILED SLACK AND LABEL AS "FUTURE SITE LIGHTING" INDICATING LOCATION OF OPPOSITE END.
9. PROVIDE EXTERIOR JUNCTION BOX FOR FUTURE CONNECTION TO SITE LIGHTING (BOLLARD LIGHTING ALONG SIDEWALKS). MOUNT JUNCTION BOX AT 24" ABOVE GRADE.



FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — M.P. LONG 59459 — REGISTERED PROFESSIONAL ENGINEER
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Drawing Title: PARTIAL LIGHTING PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-E2-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

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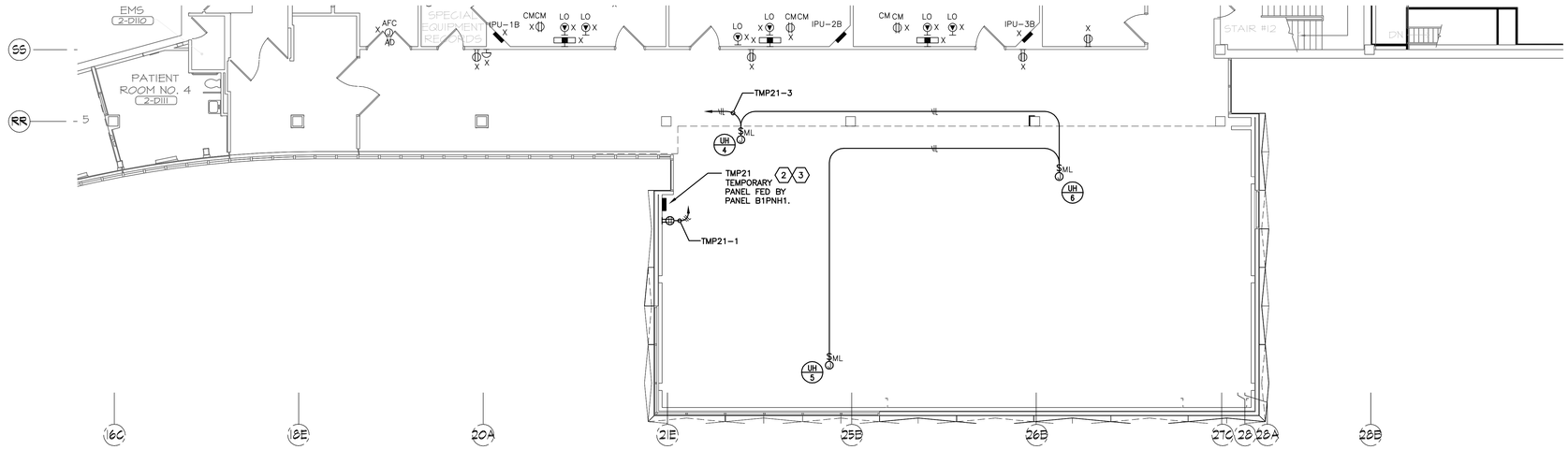
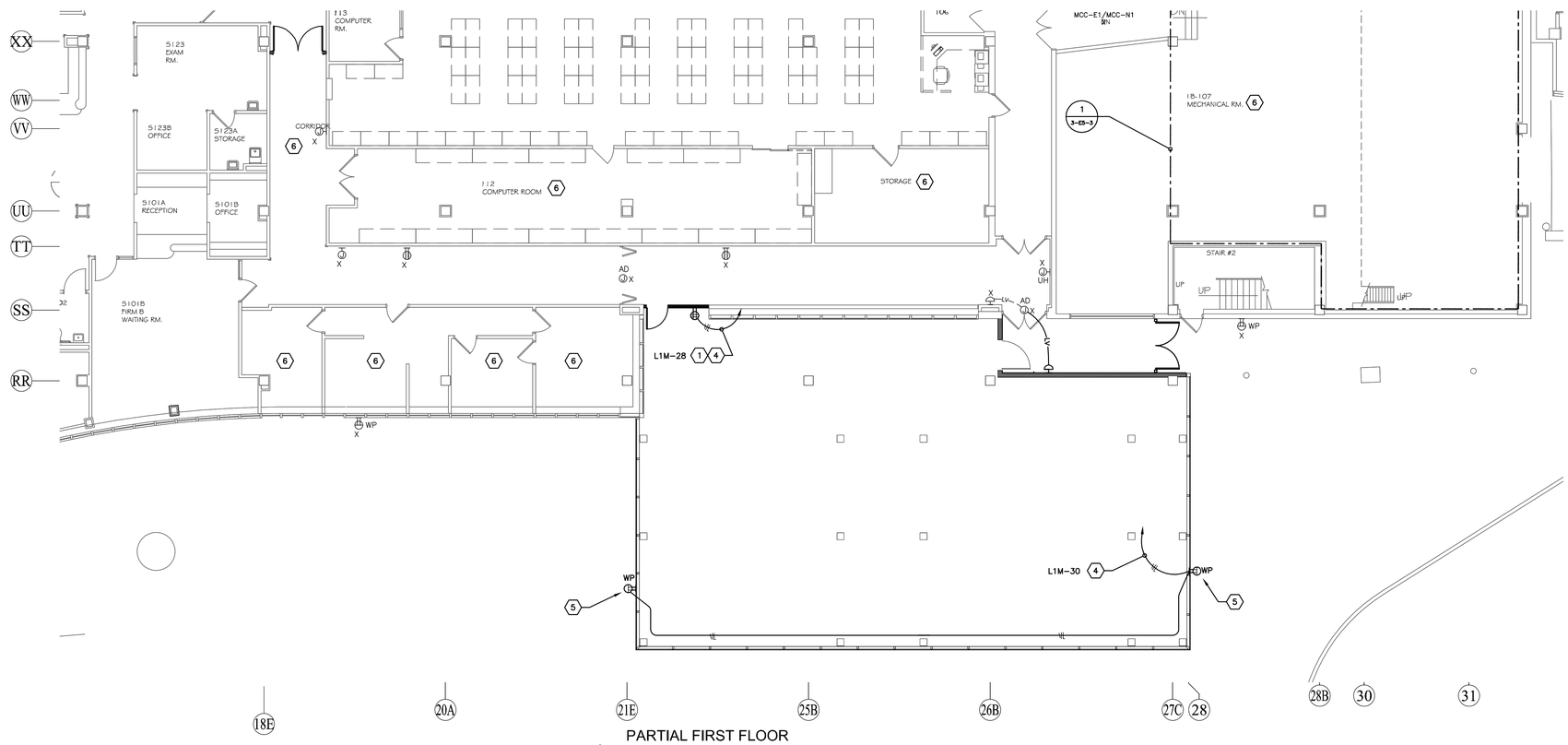


PARTIAL SECOND FLOOR POWER PLAN - PHASE 1 (2)

SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR POWER PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

POWER PLAN GENERAL NOTES:

P1. REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LAYOUT. CLOSELY COORDINATE THE EXACT LOCATION OF ALL OUTLETS AND DEVICES WITH ARCHITECTURAL ELEVATIONS. ADJUST LOCATIONS AND MOUNTING HEIGHTS WHERE NECESSARY TO PREVENT INTERFERENCE WITH FURNITURE, FIXED CASEWORK, EQUIPMENT, ETC. VERIFY ALL CHANGES PRIOR TO ROUGH-IN.

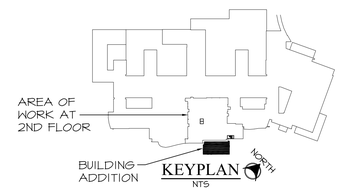
P2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, MOUNTING HEIGHTS, AND CONNECTION REQUIREMENTS (RECEPTACLES, SWITCHES, DISCONNECTS) WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.

P3. SHARED NEUTRALS ARE NOT PERMITTED FOR BRANCH CIRCUITS.

F4. CIRCUIT ASSIGNMENTS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY CIRCUIT AVAILABILITY AND NOTIFY ENGINEER OF ANY DEVIATIONS.

CODED NOTES:

1. CONNECT NEW LOAD TO SPARE CIRCUIT (20A-120V) AVAILABLE AFTER DEMOLITION OF SAME AREA. PROVIDE UPDATED PANEL SCHEDULE.
2. CONTRACTOR SHALL PROVIDE TEMPORARY PANELBOARD IN SECOND FLOOR SHELL SPACE/STAGING AREA. REFER TO POWER DISTRIBUTION ONE-LINE FOR CONNECTION REQUIREMENTS.
3. PROVIDE 7.5KVA-480V:120/240V-1ø-18kAIC SEALED PACKAGED TRANSFORMER/PANELBOARD 'TMP21', WITH PRIMARY AND SECONDARY MAIN BREAKERS INCLUDED. PROVIDE (10) 20A-1P CIRCUIT BREAKERS IN PANELBOARD SECTION FOR CONNECTION OF NEW LOADS.
4. REFER TO FIRST FLOOR ELECTRICAL KEYPLAN FOR PANEL LOCATION IN ELECTRICAL ROOM 105.
5. MOUNT RECEPTACLE IN FRAMING BAND AT 36" ABOVE GRADE AND CENTERED IN PANEL HORIZONTALLY.
6. MAINTAIN EXISTING OUTLETS AND BRANCH CIRCUITS FOR INDICATED AREAS UNLESS OTHERWISE NOTED.



KEYPLAN NTS

FOR CONSTRUCTION

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CONSULTANTS:

STATE OF OHIO M.P. LONG 59459 REGISTERED PROFESSIONAL ENGINEER

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Drawing Title: PARTIAL POWER PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: MPL / Drawn By: TWM	Drawing Number: 1-E3-1

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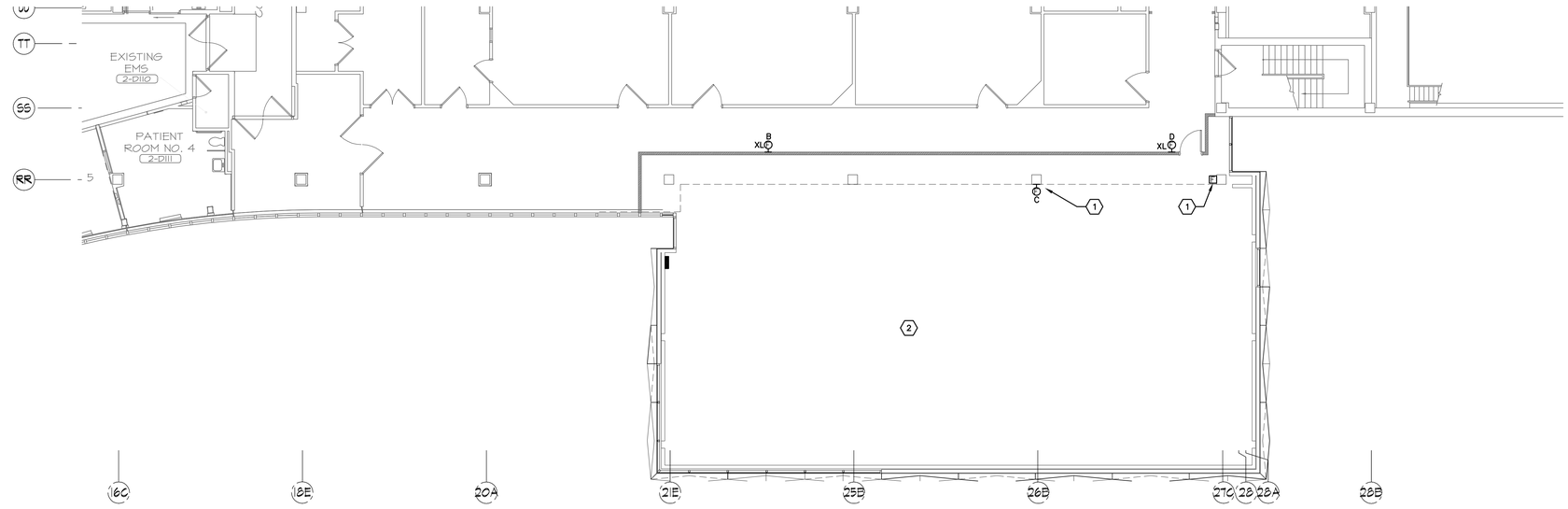
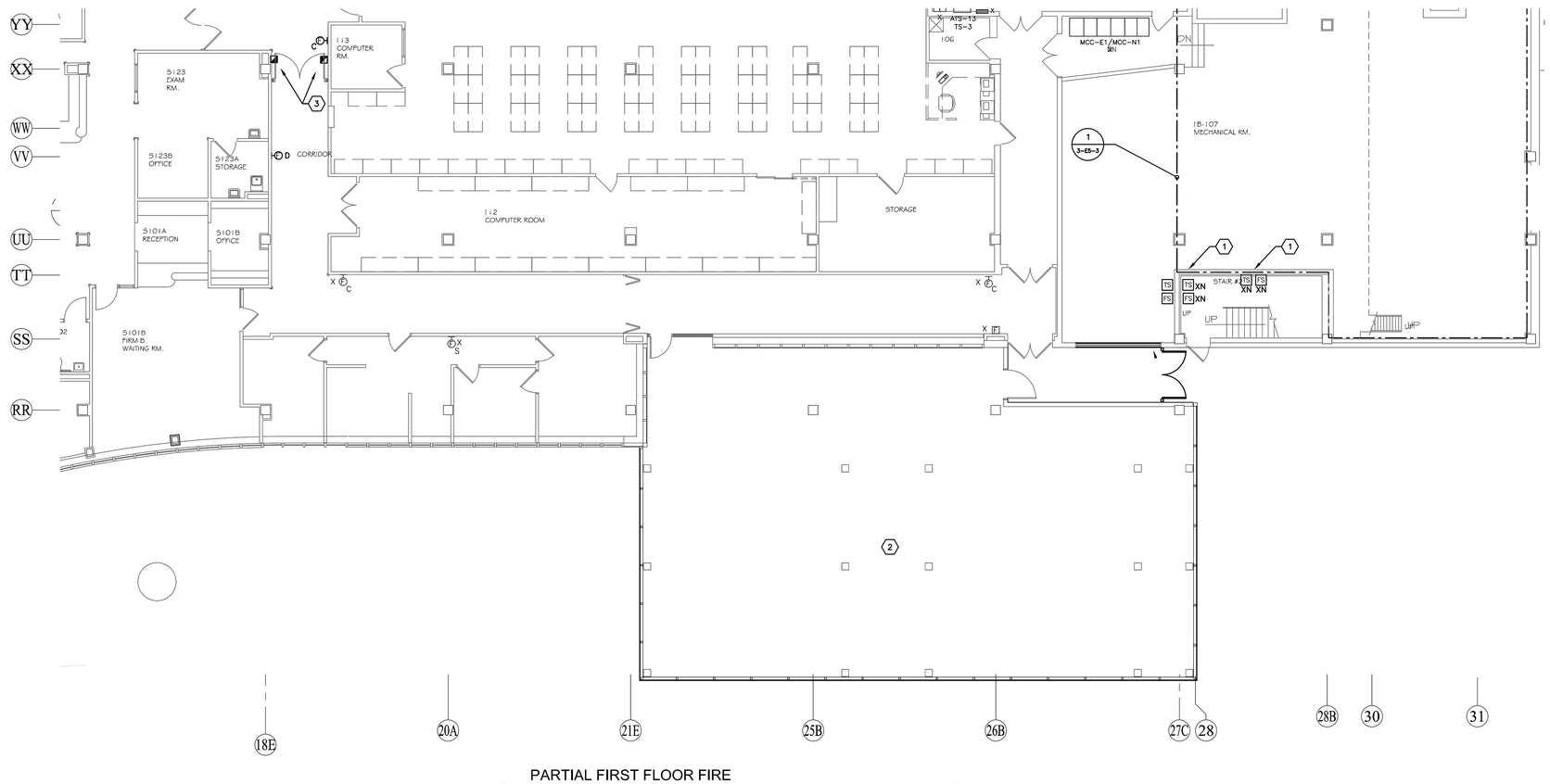


PARTIAL SECOND FLOOR FIRE ALARM PLAN - PHASE 1 (2)

SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR FIRE ALARM PLAN - PHASE 1 (1)

SCALE: 1/8" = 1'0"

GENERAL FIRE ALARM SYSTEM NOTES:

F1. ALL FIRE ALARM SYSTEM DEVICES SHALL BE CONNECTED COMPLETE TO THE MAIN FIRE ALARM SYSTEM CONTROL PANEL IN ACCORDANCE WITH ENGINEER APPROVED MANUFACTURER'S SHOP DRAWING WIRING DIAGRAMS AND DETAILS.

F2. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN 3/4" MINIMUM SIZE CONDUIT SYSTEM.

F3. IN GENERAL ALL MANUAL PULL STATIONS SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR. MANUAL PULL STATIONS SHALL BE INSTALLED WITHIN 5'-0" OF ALL EXIT DOORWAY OPENINGS AT EACH EXIT ON EACH FLOOR. ADDITIONAL MANUAL PULL STATIONS SHALL BE PROVIDED SO THAT THE TRAVEL DISTANCE TO THE NEAREST PULL STATION WILL NOT EXCEED 200' MEASURED HORIZONTALLY ON THE SAME FLOOR.

F4. ALL AUDIO/VISUAL AND VISUAL ONLY FIRE ALARM SYSTEM DEVICES SHALL BE ADA TYPE. IN ALL CASES VISUAL DEVICES SHALL BE WALL MOUNTED AT 80" ABOVE FINISHED FLOOR. VISUAL DEVICES SHALL BE LOCATED NOT MORE THAN 15' FROM THE END OF ALL CORRIDORS WITH A SEPARATION NOT GREATER THAN 100' BETWEEN DEVICES. AUDIO DEVICES SHALL BE INSTALLED THROUGHOUT THE BUILDING TO ATTAIN MINIMUM DECIBEL LEVELS REQUIRED BY CODE. COMBINATION AUDIO/VISUAL DEVICES AND ADDITIONAL VISUAL ONLY DEVICES SHALL BE INSTALLED AT LOCATIONS AS INDICATED ON FLOOR PLANS.

F5. IN GENERAL SMOKE DETECTORS SHALL BE INSTALLED ON CEILINGS WITH SPACING NOT TO EXCEED MANUFACTURER'S RECOMMENDATION.

F6. SPRINKLER SYSTEM WATERFLOW ALARM INITIATING DEVICES SHALL BE CONNECTED COMPLETE TO THE FIRE ALARM SYSTEM.

F7. DUCT TYPE SMOKE DETECTORS SHALL BE PROVIDED FOR ALL HVAC RETURN AIR SYSTEMS WITH DESIGN CAPACITY GREATER THAN 2,000 CFM. WHERE RETURN AIR RISERS SERVE TWO OR MORE STORIES, AND ARE PART OF A RETURN AIR SYSTEM HAVING A DESIGN CAPACITY GREATER THAN 15,000 CFM, DUCT DETECTORS SHALL BE PROVIDED AT EACH STORY. COORDINATE EXACT DETECTOR LOCATIONS AND PROVISION OF ADEQUATE DUCT LENGTHS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

F8. PROVIDE ALL FIRE ALARM SYSTEM COMPONENTS NECESSARY FOR SHUT DOWN OF HVAC EQUIPMENT BY THE FIRE ALARM SYSTEM WHERE SAME IS REQUIRED.

F9. PROVIDE ALL FIRE ALARM SYSTEM COMPONENTS NECESSARY FOR ELEVATOR CAPTURE BY THE FIRE ALARM SYSTEM WHERE SAME IS REQUIRED.

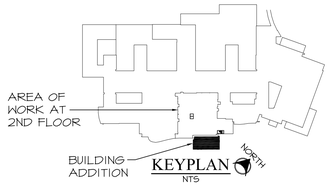
F10. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 5'-0" OF CENTERLINE OF SMOKE DOORS ON HOLD-OPEN.

F11. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM AN AIR SUPPLY DIFFUSER.

F12. COORDINATE FIRE ALARM ZONES WITH SMOKE COMPARTMENTS AND SPRINKLER ZONES. STROBES SHALL ACTIVATE ONLY IN THE ZONE OF ALARM ORIGIN. PROVIDE ONE SPEAKER CIRCUIT PER SMOKE ZONE.

CODED NOTES:

1. CONNECT REPLACED 'XN' DEVICES TO NOTIFIER 3030 SYSTEM. (TYPICAL)
2. PROVIDE HEAT DETECTORS IN SHELL SPACE.
3. PROVIDE HOLD OPENS ON TEMPORARY DOORWAY; REMOVE WHEN TEMPORARY DOORWAY IS REMOVED.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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Drawing Title: PARTIAL FIRE ALARM PLANS - PHASE 1

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MPL | Drawn By: TWM

Project Number: 541-364

Building Number:

Drawing Number: 1-E4-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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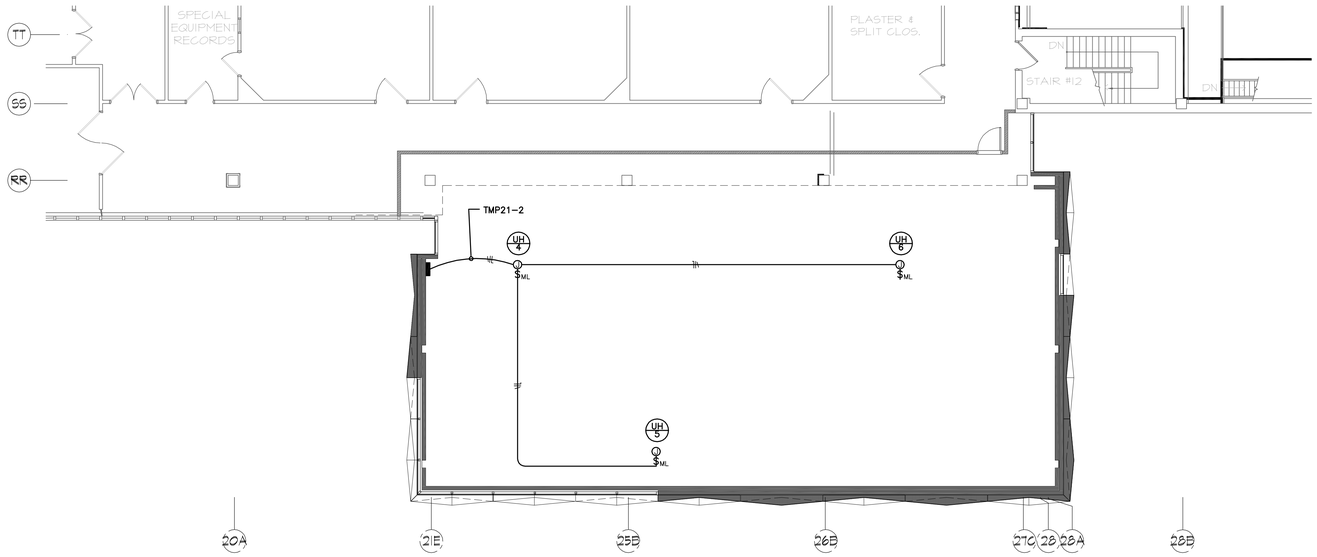
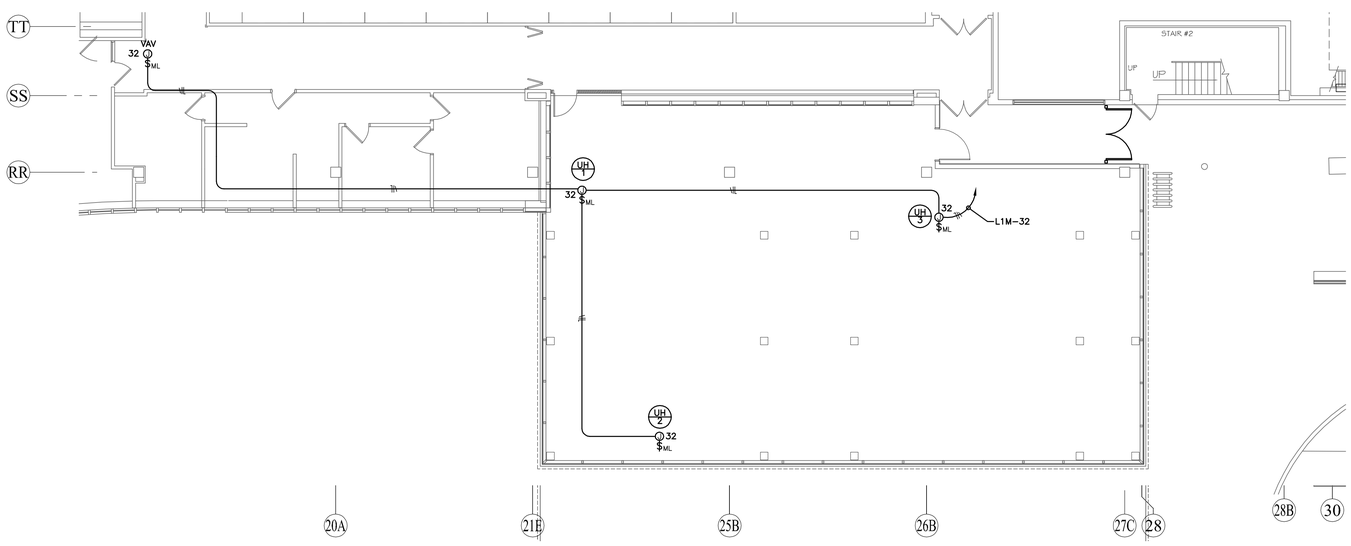


PARTIAL SECOND FLOOR MECH.
EQUIP. CONN. PLAN - PHASE 1
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'
1



PARTIAL FIRST FLOOR MECH.
EQUIP. CONN. PLAN - PHASE 1
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'
1

GENERAL MECHANICAL EQUIPMENT NOTES:

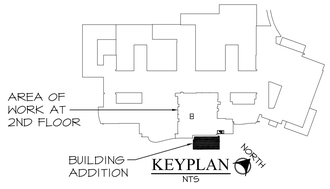
M1. MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND THE ELECTRICAL CONTRACTOR SHALL CONNECT MECHANICAL EQUIPMENT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS AND DETAILS UNLESS OTHERWISE NOTED ON DRAWINGS.

M2. ELECTRICAL CONTRACTOR SHALL CONCEAL CONDUIT AND WIRING IN WALLS AND ABOVE CEILING AND PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT. CONDUITS SHALL BE RIGID ALUMINUM CONDUITS AT EXTERIOR LOCATIONS.

M3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LOCAL DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT, UNLESS EQUIPMENT IS NOTED TO BE FURNISHED WITH INTEGRAL DISCONNECTS. LABEL ALL DISCONNECT SWITCHES TO INDICATE POWER SOURCE AND EQUIPMENT SERVED.

M4. COORDINATE EXACT INSTALLATION LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL PLANS PRIOR TO ROUGH-IN.

M5. SEAL ALL ROOF PENETRATIONS WATER-TIGHT AND ALL WALL PENETRATIONS TO MAINTAIN FIRE RATING. ELECTRICAL AND MECHANICAL CONTRACTOR SHALL COORDINATE UTILIZATION OF PIPE CURBS AND MINIMIZE THE QUANTITY OF ROOF PENETRATIONS.



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Drawing Title: PARTIAL MECH. EQUIP. CONN. PLANS - PHASE 1

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date	Checked By	Drawn By
03-16-12	MPL	TWM

Project Number: 541-364

Building Number:

Drawing Number: 1-E5-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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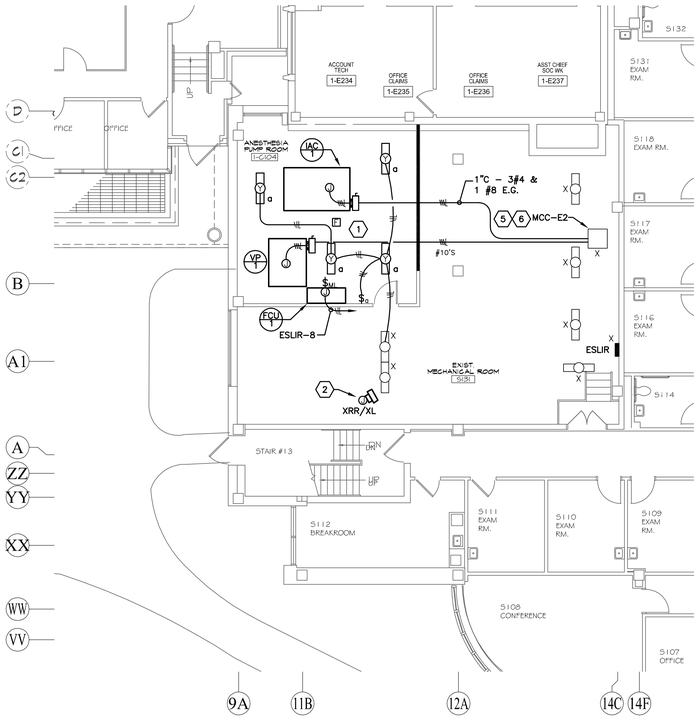
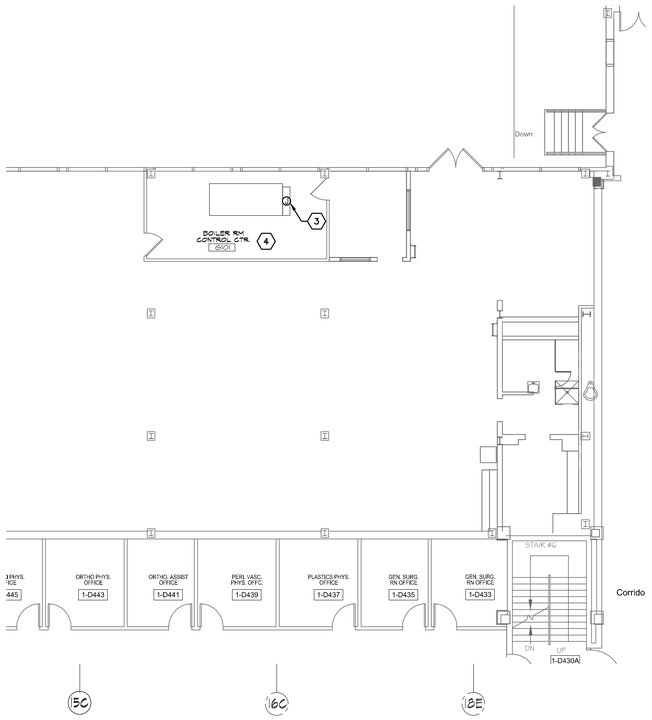


PARTIAL FIRST FLOOR MECH. EQUIP. CONN. PLAN - PHASE 1 — 1

SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR MECH. EQUIP. CONN. PLAN - PHASE 1 — 2

SCALE: 1/8" = 1'0"

GENERAL MECHANICAL EQUIPMENT NOTES:

M1. MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND THE ELECTRICAL CONTRACTOR SHALL CONNECT MECHANICAL EQUIPMENT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS AND DETAILS UNLESS OTHERWISE NOTED ON DRAWINGS.

M2. ELECTRICAL CONTRACTOR SHALL CONCEAL CONDUIT AND WIRING IN WALLS AND ABOVE CEILING AND PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT. CONDUITS SHALL BE RIGID ALUMINUM CONDUITS AT EXTERIOR LOCATIONS.

M3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LOCAL DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT, UNLESS EQUIPMENT IS NOTED TO BE FURNISHED WITH INTEGRAL DISCONNECTS. LABEL ALL DISCONNECT SWITCHES TO INDICATE POWER SOURCE AND EQUIPMENT SERVED.

M4. COORDINATE EXACT INSTALLATION LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL PLANS PRIOR TO ROUGH-IN.

M5. SEAL ALL ROOF PENETRATIONS WATER-TIGHT AND ALL WALL PENETRATIONS TO MAINTAIN FIRE RATING. ELECTRICAL AND MECHANICAL CONTRACTOR SHALL COORDINATE UTILIZATION OF PIPE CURBS AND MINIMIZE THE QUANTITY OF ROOF PENETRATIONS.

M6. (VP 1) SYMBOL INDICATES MECHANICAL EQUIPMENT – REFER TO "MECHANICAL EQUIPMENT SCHEDULE" FOR CONNECTION REQUIREMENTS OF EQUIPMENT SHOWN ON THIS DRAWING.

CODED NOTES:

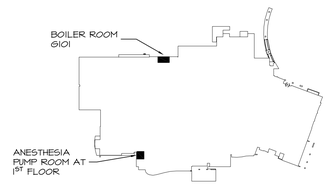
1. REMOVE EXISTING LIGHTING FIXTURES IN NEW ROOM AREA. PROVIDE NEW TYPE "Y" FIXTURES. SPLICE AND EXTEND EXISTING UNSWITCHED HOT FROM EXISTING FIXTURES.
2. DISCONNECT POWER FOR EXISTING UNIT HEATING FOR REPOSITIONING. RECONNECT AFTER MOVE. EXTEND AND SPLICE CONDUITS AND WIRING AS NEEDED TO MAKE FINAL CONNECTION. VERIFY NEW LOCATION WITH MECHANICAL DRAWINGS.
3. DISCONNECT EXISTING MEDICAL GAS ALARM PANEL. CONNECT NEW MEDICAL GAS ALARM PANEL TO EXISTING LIFE SAFETY CIRCUIT. REFER TO "MEDICAL GAS ALARM WIRING DIAGRAM" ON DRAWING 1-E5-4 FOR WORK REQUIREMENTS OF MEDICAL GAS ALARM WIRING BETWEEN EQUIPMENT AND MASTER ALARM PANELS.
4. REFER TO DRAWING 0-MG2-2 FOR LOCATION ON KEYPLAN.
5. PROVIDE NEW 70A-3P BREAKER IN SPARE MCC-E2 CUBICLE TO SUPPLY IAC-1. REMOVE EXISTING SPARE CUBICLE BREAKER, STARTER, CONTROLS, ETC. COMPLETE. PROVIDE ON/OFF CONTROLS ON MCC-E2 FOR NEW BREAKER. PROVIDE NEW PHENOLIC LABLEL THAT READS "INSTRUMENT AIR COMPRESSOR (IAC-1)".
6. PROVIDE NEW 15A-3P BREAKER IN SPARE MCC-E2 CUBLICE TO SUPPLY VP-1. REMOVE EXISTING SPARE CUBICLE BREAKER, STARTER, CONTROLS, ETC. COMPLETE. PROVIDE ON/OFF CONTROLS ON MCC-E2 FOR NEW BREAKER. PROVIDE NEW PHENOLIC LABLEL THAT READS "VACUUM PUMP (VP-1)".

EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT TAG	SYSTEM HP	VOLTS-PH	CURRENT (A)	FED FROM SWBD/PNBD	BRKR SIZE	NOTES
IAC-1	(3) 10HP	460V-3ø	39.0A	MCC-E1	70A-3P	1,2
VP-1	(2) 3HP	460V-3ø	9.8A	MCC-E1	15A-3P	1,3
FCU-1	1/6HP	120V-1ø	2.1A	ESLIR	20A-1P	1,4

SCHEDULE NOTES:

1. CONTRACTOR SHALL MAKE FINAL CONNECTION TO EACH MOTOR IN SYSTEM. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION (NOT TO EXCEED 6'-0" WITHOUT APPROVAL FROM C.O.T.R.) TO ALL MOTORS.
2. PROVIDE 100A-600V-3P-NF HEAVY DUTY LOCAL DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. MOUNT DISCONNECT ON STEEL SUPPORT SYSTEM (UNISTRUT OR SIMILAR) SEPARATE FROM MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABEL ON DISCONNECT SWITCH INDICATING EQUIPMENT NAME, ELECTRICAL INFORMATION, AND NAME AND LOCATION OF POWER SOURCE.
3. PROVIDE 30A-600V-3P-NF HEAVY DUTY LOCAL DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. MOUNT DISCONNECT ON STEEL SUPPORT SYSTEM (UNISTRUT OR SIMILAR) SEPARATE FROM MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABEL ON DISCONNECT SWITCH INDICATING EQUIPMENT NAME, ELECTRICAL INFORMATION, AND NAME AND LOCATION OF POWER SOURCE.
4. PROVIDE 20A-120V-1P LOCKABLE MANUAL SWITCH. MOUNT DISCONNECT ON STEEL SUPPORT SYSTEM (UNISTRUT OR SIMILAR) SEPARATE FROM MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE ENGRAVED LABEL ON DISCONNECT SWITCH INDICATING EQUIPMENT NAME, ELECTRICAL INFORMATION, AND NAME AND LOCATION OF POWER SOURCE.



FIRST FLOOR KEYPLAN — NORTH — NTS

FOR CONSTRUCTION

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Revisions:	Date

CONSULTANTS:

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Drawing Title: PARTIAL FIRST FLOOR MECH. EQUIP. CONN. PLANS - PHASE 1

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MPL | Drawn By: TWM

Project Number: 541-364

Building Number:

Drawing Number: 1-E5-2

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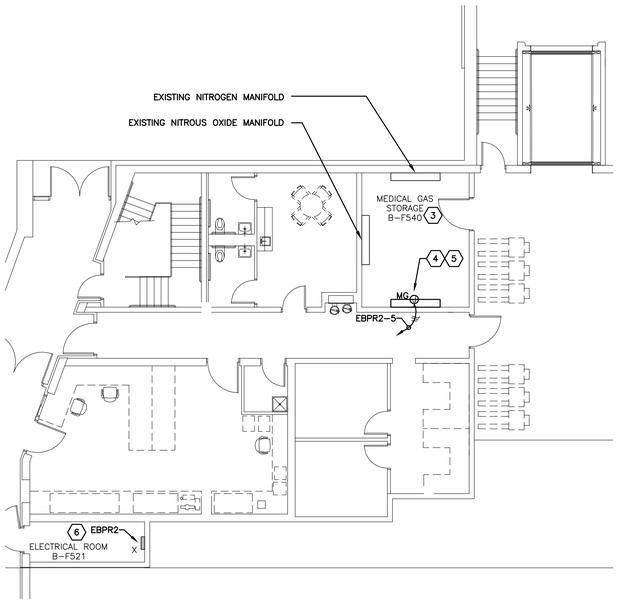
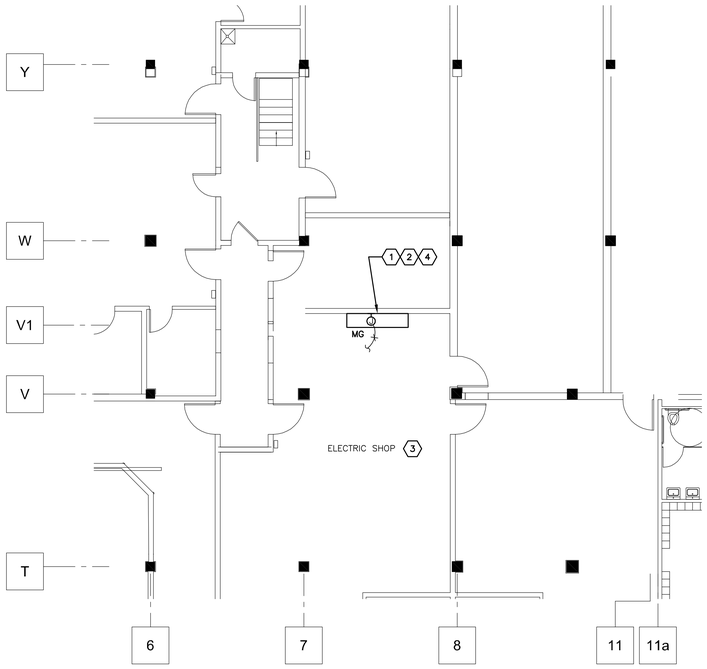


LAB WAREHOUSE MEDICAL GAS STORAGE
PARTIAL BASEMENT MECH. EQUIP. CONN. PLAN 2
SCALE: 1/2" = 1'0"
0' 1' 2' 4' 8'



ELECTRIC SHOP
PARTIAL BASEMENT MECH. EQUIP. CONN. PLAN 1
SCALE: 1/2" = 1'0"
0' 1' 2' 4' 8'

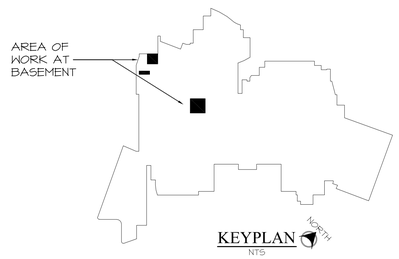
MECHANICAL EQUIPMENT GENERAL NOTES:

M1. CONTRACTOR SHALL CONNECT MECHANICAL EQUIPMENT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS AND DETAILS UNLESS OTHERWISE NOTED ON DRAWINGS.

M2. COORDINATE EXACT INSTALLATION LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL PLANS PRIOR TO ROUGH-IN.

CODED NOTES:

1. DISCONNECT POWER FOR EXISTING MEDICAL GAS ALARM PANEL AND REUSE EXISTING 20A-120V LIFE SAFETY CIRCUIT TO CONNECT NEW MEDICAL GAS ALARM PANEL AT SAME LOCATION.
2. DISCONNECT EXISTING ALARM WIRING (32 ALARM POINTS) AND RECONNECT TO NEW MASTER ALARM PANEL.
3. REFER TO "BASEMENT MEDICAL GAS KEY PLAN" ON DRAWING 0-MG2-1 FOR OVERALL LOCATION IN BASEMENT.
4. REFER TO "MEDICAL GAS ALARM WIRING DIAGRAM" ON DRAWING 1-E5-4 FOR WORK REQUIREMENTS OF MEDICAL GAS ALARM WIRING BETWEEN EQUIPMENT AND MASTER ALARM PANELS.
5. NEW CARBON DIOXIDE MANIFOLD TO SERVE OPERATING ROOMS SUITE. CONNECT TO SPARE 20A-120V LIFE SAFETY CIRCUIT IN EXISTING PANEL EBPR2.
6. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.



KEYPLAN
NTS

FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
M.P. LONG
59459
REGISTERED
PROFESSIONAL ENGINEER
FF&H #10012

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Drawing Title: PARTIAL BASEMENT MECH. EQUIP. CONN. PLAN - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-E5-3
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

CODED NOTES:

1. PROVIDE 16"SQ. X 8"D PULLBOX MOUNTING AT CEILING OR WALL MOUNTED AT 9'-0" AFF. PROVIDE 50'-0" COILED SLACK IN PULLBOX FOR SPARE WIRING AND LABEL AS "SPARE" AND LOCATION OF OTHER END. PROVIDE LABEL ON REMOVABLE COVER FOR PULL BOX THAT READS "MEDICAL GAS ALARM WIRING."
2. REFER TO "BASEMENT MEDICAL GAS KEY PLAN" ON DRAWING 0-MG2-1 FOR OVERALL LOCATION IN BASEMENT.
3. REFER TO "FIRST FLOOR MEDICAL GAS KEY PLAN" ON DRAWING 0-MG2-2 FOR OVERALL LOCATION IN BASEMENT.

ALARM WIRING SCHEDULE

A	3/4"C-12#22 & 1#22 E.G.
B	3/4"C-22#22 & 1#22 E.G.

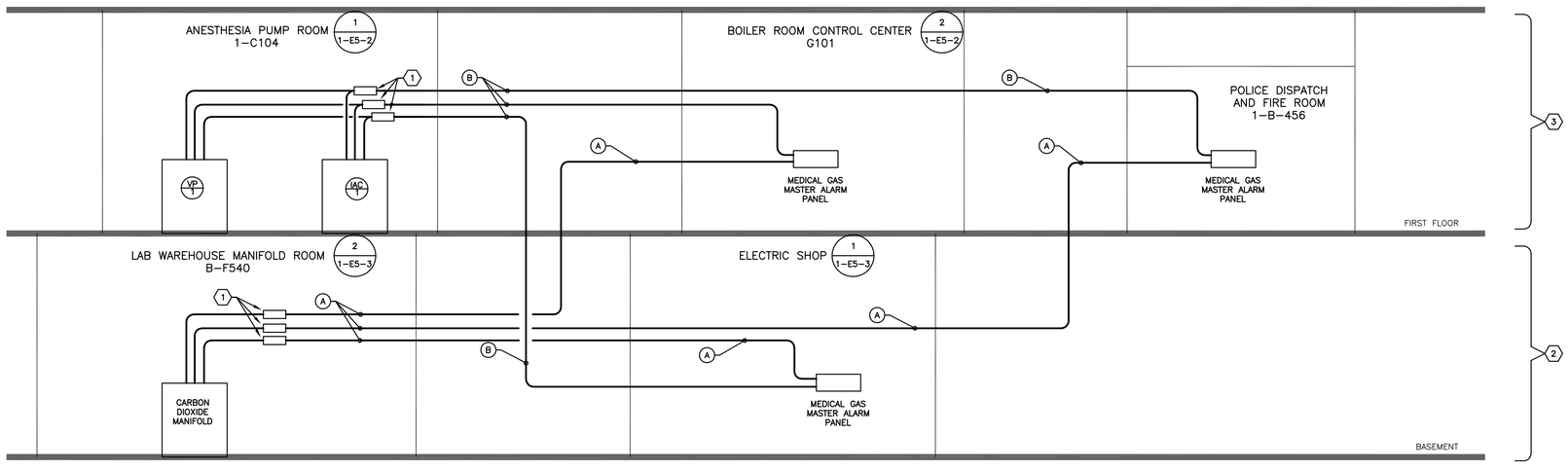
MEDICAL GAS ALARM WIRING REQUIREMENTS:

G1. MEDICAL GAS ALARM WIRING SHALL BE:
A. COPPER
B. 22AWG. MINIMUM SIZE (LIMITED TO 5000 FEET RUN LENGTH)
C. TWISTED PAIR SHIELDED TYPE. MULTI-PAIR CABLES WITHIN ONE SHIELD ARE ACCEPTABLE.

G2. ALL WIRING SHALL BE INSTALLED IN CONDUIT FOR PROTECTION FROM PHYSICAL DAMAGE

G3. CONTRACTOR SHALL INSTALL WIRING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

G4. ALL WIRING SHALL BE MADE WITH COLOR CODED WIRE. RECORD COLOR, SIGNAL AND SOURCE OF SIGNAL FOR EACH WIRING LEAD TO AID IN CONNECTION OF ALARM FINSIH COMPONENTS.



MEDICAL GAS ALARM WIRING DIAGRAM 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO M.P. LONG 59459 REGISTERED PROFESSIONAL ENGINEER

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Drawing Title: MECHANICAL CONNECTIONS MEDICAL GAS ALARM WIRING DIAGRAM

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 | Checked By: MPL | Drawn By: TWM

Project Number: 541-364

Building Number:

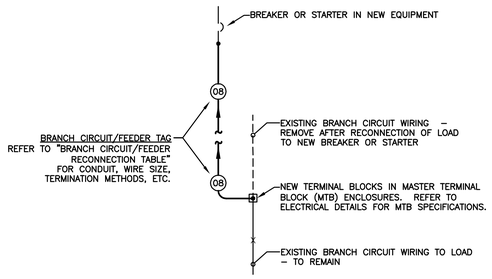
Drawing Number: 1-E5-4

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

BRANCH CIRCUIT RECONNECTION DETAIL - TYPICAL



LEGEND: POWER DISTRIBUTION ONE-LINE

- EXISTING EQUIPMENT, FEEDER/CIRCUIT – TO BE DEMOLISHED
- EXISTING EQUIPMENT, FEEDER/CIRCUIT – TO REMAIN
- 400A–3Ø–4W — NEW FEEDER/CIRCUIT AND FEEDER TAG, REFER TO FEEDER SCHEDULE ON DRAWING ***** FOR ELECTRICAL REQUIREMENTS.
- FUTURE EQUIPMENT, FEEDER/CIRCUIT – N.I.C.
- NAME (OLD NAME) — EQUIPMENT OUTLINE
- SPLICE JOINT FOR RECONNECTION OF EXISTING CIRCUITS TO NEW SOURCE
- 225A — BOLTED STATIONARY CIRCUIT BREAKER – 3–POLE UNLESS OTHERWISE NOTED
  - GF – EQUIP BREAKER W/ GROUND FAULT TRIP
  - GFA – EQUIP BREAKER W/ GROUND FAULT ALARM
  - LSI – EQUIP BREAKER W/ ADJUSTABLE LONG, SHORT AND INSTANT. SETTINGS
- GROUNDING TERMINATION POINT FOR AN EQUIPMENT GROUNDING CONDUCTOR. CONNECTION SHALL BE MADE BY BONDING THE EQUIPMENT GROUNDING CONDUCTOR TO THE GROUNDED SERVICE CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR.
- B — EQUIPMENT DESCRIPTION — CONTINUATION MARKER – REFER TO MATCHING MARKER AND ONELINE CONTINUED ON ANOTHER DRAWING.

BRANCH CIRCUIT RECONNECTION TABLE

BRANCH CIRCUIT INFORMATION

TAG	LOAD DESCRIPTION	POWER CLASS.	VOLTAGE	O.C.P. OR STARTER SIZE	EXIST. SOURCE	NEW SOURCE	NEW CIRCUIT NUMBERS	CONDUIT SIZES	CONDUCTORS	ADJ. FACTOR NEC 310-15(B)(2)(a)	ALLOW AMP 90°C NEC 310-16	ADJUSTED AMPACITY
01	(10) REMAINING 20A-120V CIRCUITS	N	120V	(10) 20A-1P	L2S	LL21	1-19 ODD	1-1/4"C	10 #10H, 10 #10N & 1 #10EG	50%	40	20
				(10) 20A-1P			21-39 ODD	1-1/4"C	10 #10H, 10 #10N & 1 #10EG	50%	40	20
02	(9) REMAINING 20A-120V CIRCUITS	N	277V	(9) 20A-1P	H2S	HL21	2-18 EVEN	1-1/4"C	9 #10H, 9 #10N & 1 #10EG	70%	40	28
03	H1M	N	480/277V-3Ø	100A-3P	H2S	B1PNH1	SPARE BRKR	1-1/4"C	3 #2H, 1 #2N & 1 #8EG	100%	130	130
04	ATS #13 (TS3)	N	480/277V-3Ø	150A-3P	HDPS	B1PNH1	NEW BRKR	1-1/2"C	3 #1/0H, 1 #1/0N & 1 #6EG	100%	150	150
05	UPS	CR	120V	(7) 20A-1P	SUPS	LL34CR2UPS	20-32 EVEN	1-1/4"C	7 #10H, 7 #10N & 1 #10EG	50%	40	20
06	O.R. #4 LASER	CR	208V-1Ø	60A-2P	XTR1	XTR2	1,3	.75"	2 #4H & 1 #8EG	100%	95	95
07	O.R. 1-4 IPP	CR	277V	(4) 40A-1P	EH2S	HL22CR1	35-41 ODD	1"C	2 #8H, 1 #8N & 1 #10EG	100%	55	55
08	O.R. 1-4 IPP	CR	277V	(4) 40A-1P	EH2S	HL22CR2	36-42 EVEN	1"C	2 #8H, 1 #8N & 1 #10EG	100%	55	55
09	LTG O.R. 1-4	CR	277V	(4) 20-1P	EH2S	HL22CR1	36-42 EVEN	1"C	4 #10H, 4 #10N & 1 #10EG	70%	40	28
10	(6) REMAINING 20A-120V CIRCUITS	CR	120V	(6) 20A-1P	EL2S	LL35CR2	1-11 ODD	1-1/4"C	6 #10H, 6 #10N & 1 #10EG	50%	40	20
	(7) REMAINING 20A-120V CIRCUITS	CR	120V	(7) 20A-1P	EL2S	LL35CR2	13-25 ODD	1-1/4"C	7 #10H, 7 #10N & 1 #10EG	50%	40	20
	FILM PROCESSOR	CR	208/120V-1Ø	20A-2P	EL2S	LL35CR2	2,4	.75"C	2 #10H, 1 #10N & 1 #10EG	50%	40	20
	CONTROL DESK LOAD CENTER	CR	208/120V-1Ø	50A-2P	EL2S	LL35CR2	6,8	1"C	2 #6H, 1 #6N & 1 #10EG	100%	75	75
11	(9) REMAINING 20A-120V CIRCUITS	LS	277V	(9) 20A-1P	FH2S	HL31LS	6, 15-29 ODD	1-1/4"C	9 #10H, 9 #10N & 1 #10EG	50%	40	20
	(6) REMAINING 20A-120V CIRCUITS			(6) 20A-1P			8-18 EVEN	1-1/4"C	6 #10H, 6 #10N & 1 #10EG	50%	40	20
12	(7) REMAINING 20A-120V CIRCUITS	LS	120V	(7) 20A-1P	FL2S	LL31LS	21,23, 22-30 EVEN	1-1/4"C	7 #10H, 7 #10N & 1 #10EG	50%	40	20
13	ELEV. CAB LOAD CTR	LS	208/120V-1Ø	40A-2P	FL2S	LL31LS	22,24	1"C	2 #8H, 1 #8N & 1 #10EG	100%	55	55
14	XTR3 LASER ISOLATED PWR PANEL	CR	277V:208V	125A-3P	EHDPS	HL32CR1	32 (34,36 UNUSED)	1-1/2"C	1 #1/0H, 1 #1/0N & 1 #6EG	100%	150	150

NOTES:

1. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL EXISTING CIRCUITS FED OUT OF EXISTING ELECTRICAL ROOM #2509 PRIOR TO DISCONNECTING IN PHASE 2. TRACE EXISTING CIRCUITS WITH AN ADVANCED WIRE TRACER THAT WORKS WITH ENERGIZED OR DE–ENERGIZED CIRCUITS AND IS CAPABLE OF INJECTING TRACE SIGNAL WITH CLAMP–ON ATTACHMENT FOR NON–CONTACT OPERATION. IN GENERAL, CIRCUITS MUST BE TRACED WHILE ENERGIZED.

   A WRITTEN "LOAD IDENTIFICATION" REPORT OF ALL EXISTING CIRCUITS FED FROM THIS ROOM SHALL BE SUBMITTED TO THE C.O.T.R. FOR REVIEW WITH THE FACILITIES MAINTENANCE DEPARTMENT. THE REPORT SHALL INDICATE; SOURCE EQUIPMENT NAME, CIRCUIT NUMBER, CIRCUIT RATING, LOAD DESCRIPTION, LOAD LOCATION, DATE OF TRACE AND INITIAL OF PERSON COMPLETING TRACE.
2. PERFORM ALL CUT–OVER WORK OF RECONNECTED BRANCH CIRCUITS/FEEDERS DURING VAMC "OFF–HOURS". THIS WORK SHALL BE SCHEDULED WITH THE C.O.T.R. AT LEAST 14 DAYS IN ADVANCE. ALL PREMIUM COST (LABOR, EQUIPMENT RENTALS, ETC) ASSOCIATED WITH PERFORMING THIS WORK DURING SECOND SHIFTS, THIRD SHIFTS OR WEEKENDS SHALL BE INCLUDED IN THE CONTRACTORS BID PRICE. THE RECONNECTION OF FEEDERS AND BRANCH CIRCUITS MUST BE COMPLETED AT THE END OF EACH OFF–HOURS SHIFT SUCH THAT THERE IS NO LOSS OF POWER FOR SURGERY.
3. QUANTITY OF BREAKERS ARE AN A APPROXIMATION. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITY OF BREAKERS PRIOR TO DEMOLITION OF EXISTING PANELBOARDS. REPORT ANY DISCREPANCIES TO ENGINEER.
4. CONTRACTOR SHALL TRACE EXISTING BRANCH CIRCUIT CONDUCTORS AND COORDINATE SHUT–DOWNS OF ALL EXISTING ELECTRICAL SYSTEMS WITH OWNER.
5. FOR EXISTING MULTIWIRE BRANCH CIRCUIT LOADS ROUTED IN THE FLOOR SLAB, THE CONTRACTOR SHALL TRACE THE CIRCUITS AND CONNECT THE NEW BRANCH CIRCUIT CONDUCTOR TO THE FIRST OUTLET/JUNCTION BOX IN THE CIRCUIT IN ORDER TO MAINTAIN ALL EXISTING CIRCUITING.
6. CONTRACTOR SHALL RECONNECT ALL EXISTING (REMAINING) ACTIVE CIRCUITS TO NEW ELECTRICAL DISTRIBUTION. REFER TO BRANCH CIRCUIT RECONNECTION DETAILS FOR ELECTRICAL REQUIREMENTS.

FEEDER SCHEDULE

ONE–LINE TAG	CONDUIT AND WIRE SIZE
30A–1ø–2W	0.75"C – 2 #10 AND 1 #10EG
40A–1ø–2W	0.75"C – 2 #8 AND 1 #10EG
40A–3ø–3W	0.75"C – 3 #8 AND 1 #10EG
50A–3ø–3W	0.75"C – 3 #6 AND 1 #10EG
60A–1ø–2W	1"C – 2 #4 AND 1 #8EG
60A–3ø–3W	1"C – 3 #4 AND 1 #8EG
60A–3ø–4W	1"C – 4 #4 AND 1 #8EG
70A–3ø–3W	1"C – 3 #4 AND 1 #8EG
100A–3ø–3W	1"C – 3 #2 AND 1 #8EG
100A–3ø–4W	1.25"C – 4 #2 AND 1 #8EG
125A–3ø–3W	1.5"C – 3 #1/0 AND 1 #6EG
150A–3ø–3W	1.5"C – 3 #1/0 AND 1 #6EG
150A–3ø–4W	1.5"C – 4 #1/0 AND 1 #6EG
175A–3ø–4W	2"C – 4 #2/0 AND 1 #6EG
225A–3ø–4W	2.5"C – 4 #4/0 AND 1 #4EG
225A–3ø–6W	2.5"C – 3 #4/0 H, 1 #4/0 N, 1 #4/0 IG & 1 #4/0 EG.
250A–3ø–3W	2.5"C – 3 #4/0 AND 1 #4EG
250A–3ø–4W	2.5"C – 4 #4/0 AND 1 #4EG
300A–3ø–4W	2.5"C – 4 #300KCM AND 1 #4EG
400A–3ø–3W	2.5"C – 3 #500KCM AND 1 #2EG
400A–3ø–4W	3"C – 4 #500KCM AND 1 #2EG
600A–3ø–3W	(2)2.5"C – 3 #350KCM AND 1 #1/0 EG (2–SETS OF #350KCM IN PARALLEL)
600A–3ø–4W	(2)3"C – 4 #350KCM AND 1 #1/0 EG (2–SETS OF #350KCM IN PARALLEL)
800A–3ø–3W	(2)3"C – 3 #500KCM AND 1 #1/0 EG (2–SETS OF #500KCM IN PARALLEL)
800A–3ø–4W	(2)3"C – 4 #500KCM AND 1 #1/0 EG (2–SETS OF #500KCM IN PARALLEL)

FOR CONSTRUCTION

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Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

CONSULTANTS:

STATE OF OHIO — M.P. LONG 59459 — REGISTERED PROFESSIONAL ENGINEER
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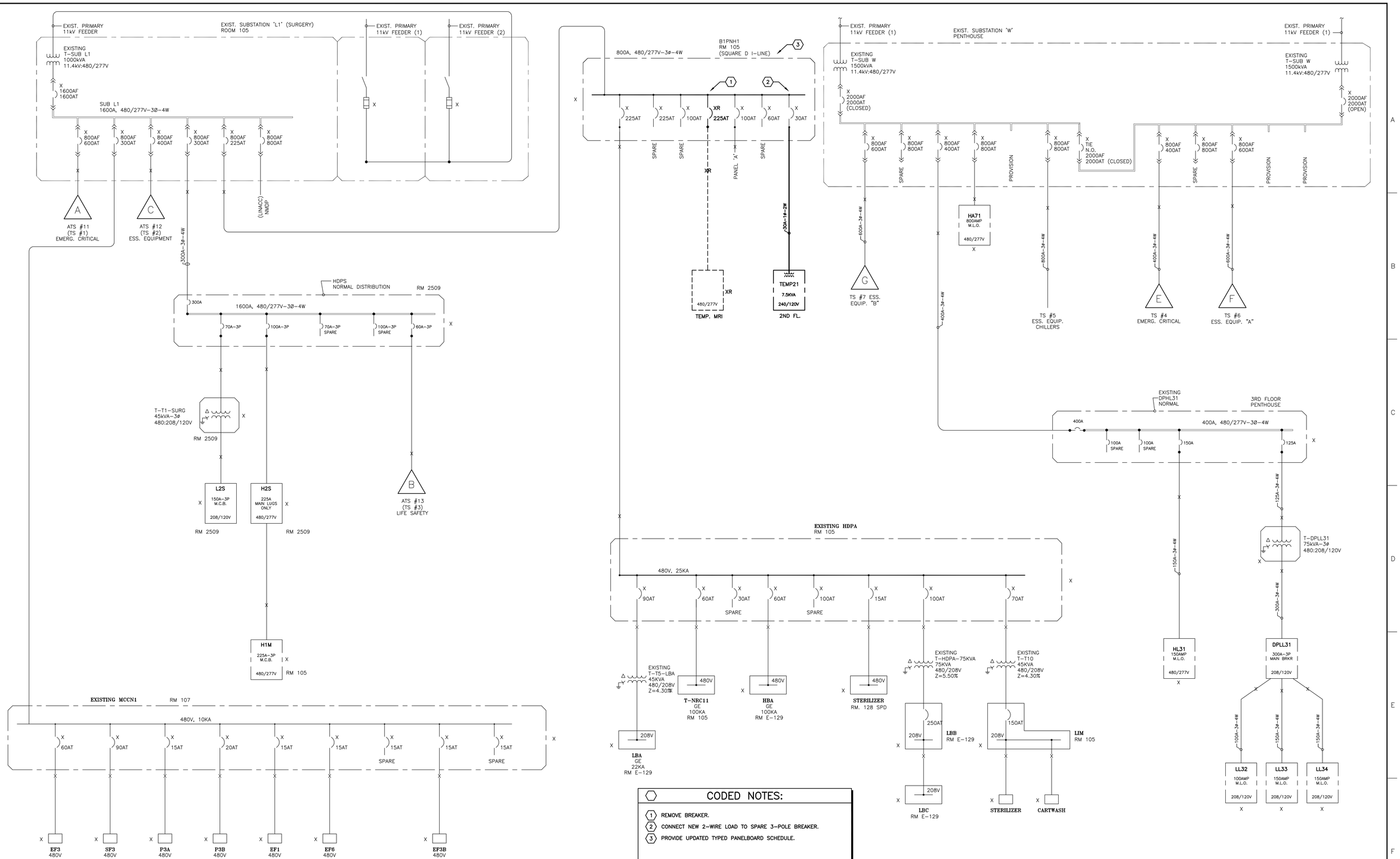
Drawing Title	POWER DISTRIBUTION LEGEND & RECONNECTION TABLE
Approved: Project Director	
Project Title	SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
Checked By	MPL
Drawn By	TWM
Project Number	541-364
Building Number	
Drawing Number	1-E6-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



CODED NOTES:

1. REMOVE BREAKER.
2. CONNECT NEW 2-WIRE LOAD TO SPARE 3-POLE BREAKER.
3. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

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Drawing Title: ONE-LINE DIAGRAM NORMAL DISTRIBUTION - PHASE 1	Project Title: SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number:	
	Date: 03-16-12 / Checked By: MPL / Drawn By: TWM	Drawing Number: 1-E6-2	Department of Veterans Affairs

VA FORM 08-6231

PANEL: **TMP21 - 480V:120/240V 1Ø - 3W** **NORMAL**

LOCATION: 2ND FL ADDITION SHELL — OCP: 30A - 2P
MOUNTING: SURFACE — MAIN: M.C.B.
COMMENTS: TEMPORARY

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.24	LIGHTING	20/1	1	2	20/1	UH-4,5,6	0.29
0.00	RECEPTACLES	20/1	3	4	20/1	SPARE	0.00
0.00	SPARE	20/1	5	6	20/1	SPARE	0.00
0.00	SPARE	20/1	7	8	20/1	SPARE	0.00
0.00	SPARE	20/1	9	10	20/1	SPARE	0.00

GROUND BUS

TOTAL CONNECTED KVA: 0.53
TOTAL DEMAND KVA: 0.53 — TOTAL DEMAND AMPS: 4.42

PANEL: **ESLIR - 208/120V - 3Ø - 4W** **ESSENTIAL EQ.**

LOCATION: S113 — OCP: 60A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: EXISTING PANEL

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.00	EX. AUTODOOR	20/1	1	2	20/1	EX. DIRECT DIG. CONTROL	0.00
0.00	EX. AUTODOOR	20/1	3	4	20/1	EX. OUTSIDE LIGHTS	0.00
0.00	EX. AUTODOOR	20/1	5	6	20/1	SPARE	0.00
0.00	EX. AUTODOOR	20/1	7	8	20/1	FCU-1	1.00 (1)
0.00	EX. AUTODOOR	20/1	9	10	20/1	SPARE	0.00
0.00	EX. AUTODOOR	20/1	11	12	20/1	SPARE	0.00
0.00	PROVISION	20/1	13	14	20/1	SPARE	0.00
0.00	EX. ICE MACHINE	20/2	15	16	20/1	PROVISION	0.00
0.00			17	18	20/1	PROVISION	0.00

N — 20/1 — GROUND BUS

TOTAL CONNECTED KVA: 1.00
TOTAL DEMAND KVA: 1.00 — TOTAL DEMAND AMPS: 2.78

CODED NOTES:

(1) CONNECT LOAD TO SPARE BREAKER IN EXISTING PANEL.

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — M.P. LONG 59459 — REGISTERED PROFESSIONAL ENGINEER
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Drawing Title: POWER DISTRIBUTION PANELBOARD SCHEDULES - SHEET 1 OF 1

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

Date: 03-16-12 — Checked By: MPL — Drawn By: TAG

Project Number: 541-364

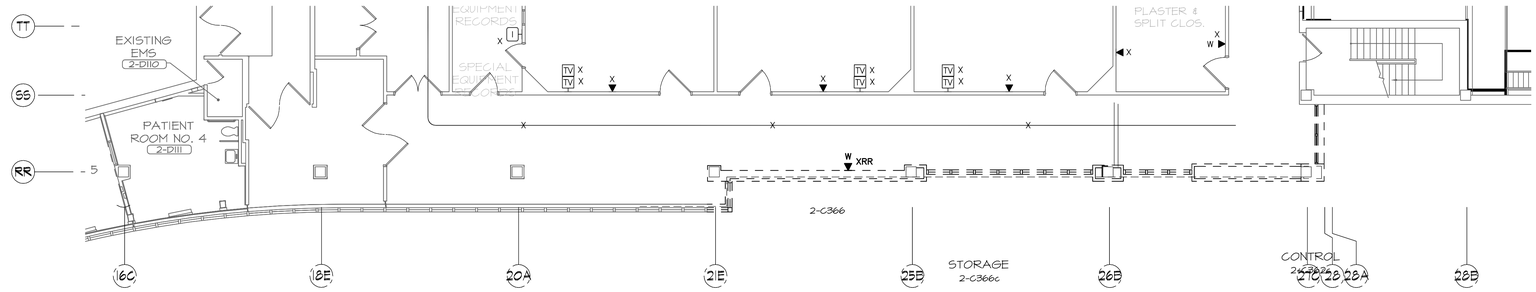
Building Number:

Drawing Number: 1-E7-1

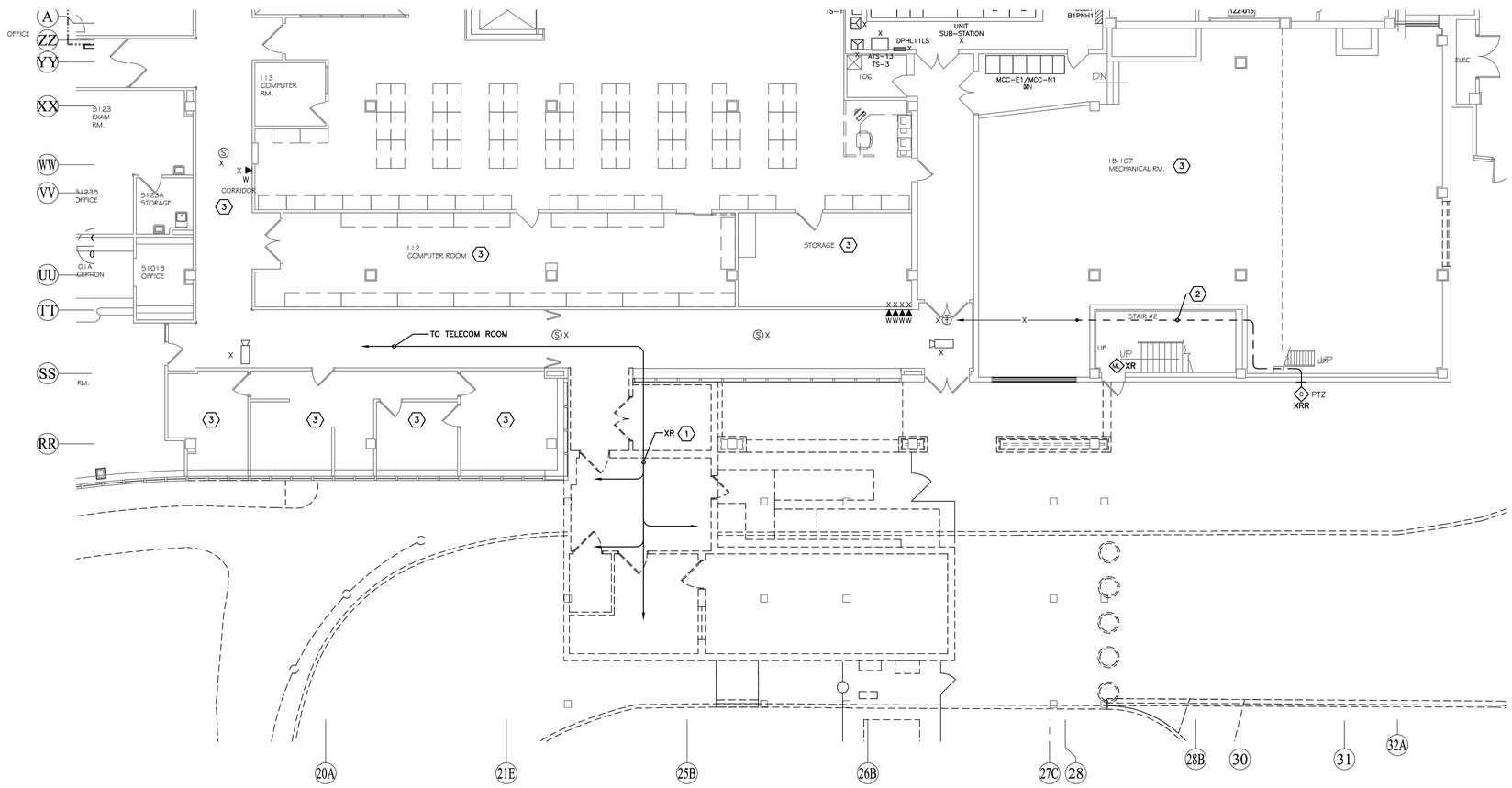
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL SECOND FLOOR TECHNOLOGY
DEMOLITION PLAN - PHASE 1 (2)
SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR TECHNOLOGY
DEMOLITION PLAN - PHASE 1 (1)
SCALE: 1/8" = 1'0"

ELECTRICAL DEMOLITION GENERAL NOTES:

D1. ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, SPECIAL SYSTEMS OUTLETS, CONDUIT, WIRING ETC. THAT WILL NOT BE REUSED IN THE REMODELED INSTALLATION SHALL BE REMOVED UNLESS OTHERWISE NOTED. THIS DEMOLITION SHALL INCLUDE ALL ELECTRICAL ITEMS SHOWN ON THIS PLAN THAT ARE NOT DESIGNATED BY "X", "XN" OR "XRR" AND ALL OTHER ADDITIONAL ITEMS THAT ARE NOT SHOWN BUT THAT MUST BE REMOVED IN ORDER TO PRODUCE A NEAT, FINISHED, PROPERLY FUNCTIONING ELECTRICAL INSTALLATION. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REUSED ELECTRICAL SYSTEMS COMPONENTS – PROVIDE ALL CONDUIT AND WIRING NECESSARY TO ACHIEVE THE SAME. THE CONTRACTOR SHALL FIELD VERIFY THE NATURE AND EXTENT OF ALL DEMOLITION WORK AND SHALL INCLUDE COST FOR THE SAME IN THE BID SUBMITTAL.

D2. ALL EXISTING REMOVED ELECTRICAL EQUIPMENT, DEVICES, ETC. THAT ARE NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

D3. DASHED WALLS ON PLAN INDICATE EXISTING CONSTRUCTION TO BE REMOVED.

D4. REFER TO ELECTRICAL LEGEND FOR ALL SYMBOL DESIGNATIONS. NOTE SPECIAL ATTENTION TO SELECTED EXISTING DEVICES, WIREWAYS, ETC. MARKED XB, XRR OR XN, AND REMOVE/BLANK OFF, RELOCATE OR REPLACE THESE COMPONENTS AS REQUIRED.

D5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.

D6. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH THE GENERAL AND MECHANICAL CONTRACTORS, AND SHALL DISCONNECT ALL REQUIRED CIRCUITS IN A TIMELY MANNER.

D7. CONTACT THE ENGINEER IF A QUESTION SHOULD ARISE CONCERNING THE STATUS OF ANY OUTLET, DEVICE, LIGHTING FIXTURE, ETC.

D8. TELECOM CABLING PAIR OUTLETS SHOWN TO BE REMOVED SHALL BE REMOVED COMPLETE BACK TO TELECOM ROOM.

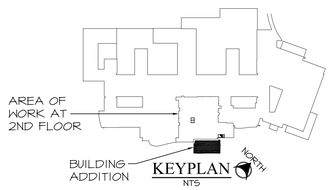
D9. EXISTING TELECOM CABLING IS ROUTED IN 1" CONDUITS FROM OUTLET TO NEAREST CABLE TRAY.

CODED NOTES:

1. REMOVE EXISTING CABLING FOR (15) TELECOMMUNICATIONS OUTLETS (APPROXIMATELY 45) CABLES COMPLETE. SEE DRAWING 0-T2-1 FOR LOCATION OF TELECOM ROOM.
2. REMOVE SECTION OF CONDUIT AND COAX CABLING ROUTED THROUGH STAIRWELL. PATCH OPENINGS TO MAINTAIN EXISTING RATING. CONDUIT AND CABLING SHALL BE EXTENDED TO NEW LOCATION.
3. MAINTAIN EXISTING TELECOMMUNICATION OUTLETS AND CABLING FOR INDICATED AREAS UNLESS OTHERWISE NOTED.

SECURITY CAMERA GENERAL NOTES:

1. PROVIDE A COMPLETE SECURITY CAMERA SYSTEM, INCLUDING ALL CAMERAS, WIRING, TERMINATIONS, ETC.
2. CAMERA SYSTEM SHALL BE PoE, WIRING SHALL BE INSTALLED IN J-HOOKS TO ADJACENT CABLE TRAY, THEN ROUTED TO THE CHAPEL AREA TELECOMMUNICATIONS CLOSET A159. CAMERA WIRING SHALL BE CAT 6.
3. SUBMIT SHOP DRAWINGS ON THE CAMERA SYSTEM. INCLUDE CUT-SHEETS FOR THE CAMERA EQUIPMENT (STATIONS, POWER SUPPLIES, ACCESSORIES, SWITCHES, SERVER) AND WIRING DIAGRAMS SHOWING CAMERA LOCATIONS AND WIRING BETWEEN STATIONS.
4. THE CONTRACTOR SHALL VERIFY EQUIPMENT REQUIREMENTS WITH VA COTR AND POLICE SERVICES PRIOR TO ORDERING. COORDINATE EXACT LOCATIONS WITH POLICE SERVICES PRIOR TO INSTALLATION.
5. CAMERA SYSTEM SHALL BE INSTALLED AND CONNECTED PER THE MANUFACTURER'S INSTRUCTIONS.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

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Drawing Title: PARTIAL TECHNOLOGY DEMOLITION PLANS - PHASE 1	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 1-T1-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management
Department of Veterans Affairs

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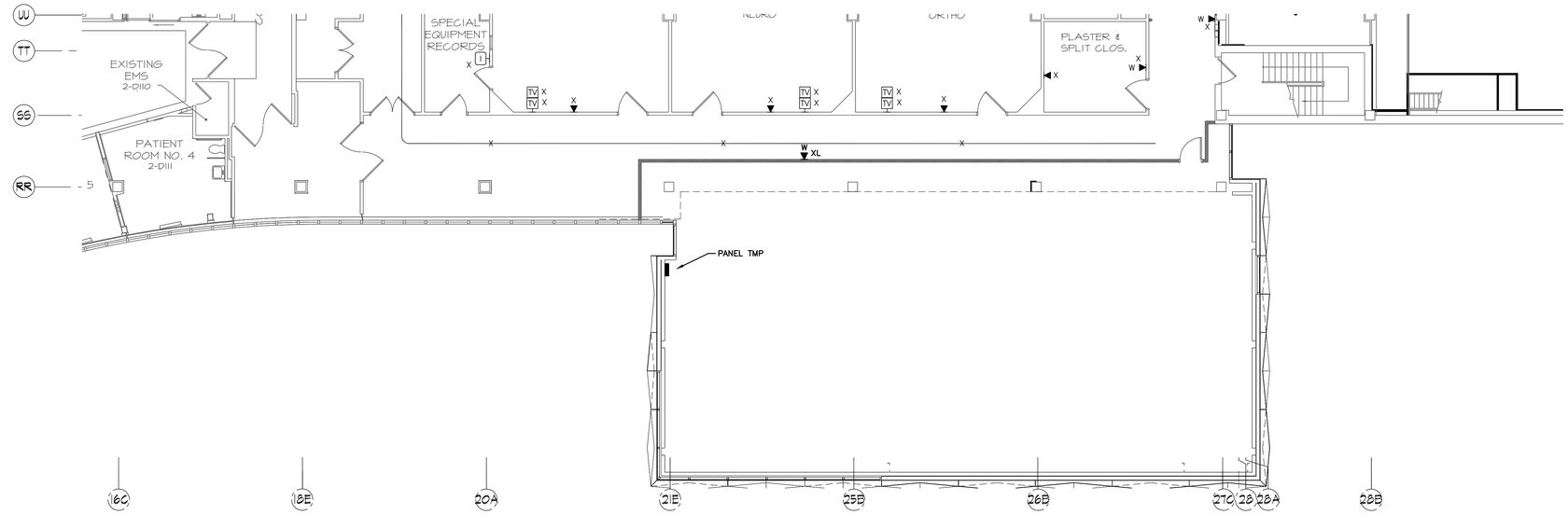
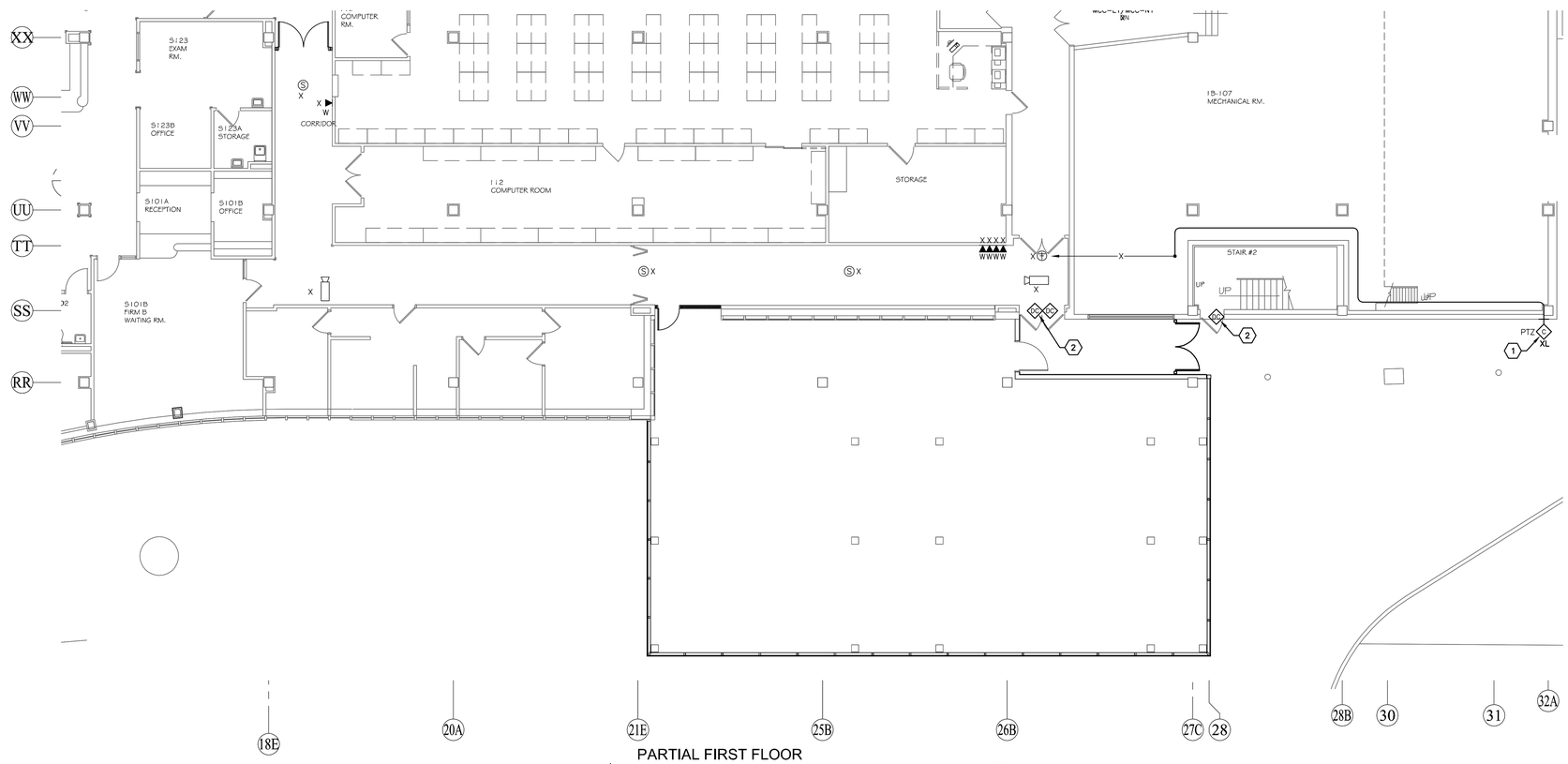


PARTIAL SECOND FLOOR
TELECOMMUNICATIONS PLAN - PHASE 1 (2)
SCALE: 1/8" = 1'0"



PARTIAL FIRST FLOOR
TELECOMMUNICATIONS PLAN - PHASE 1 (1)
SCALE: 1/8" = 1'0"

GENERAL NOTES:

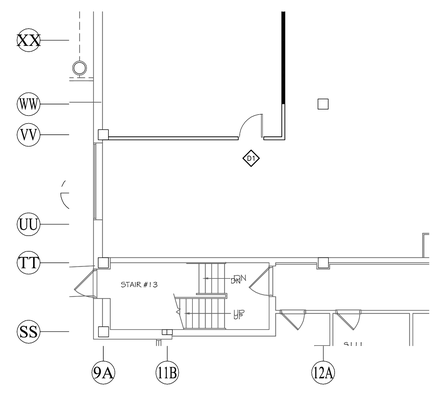
T1. ALL CONDUITS SHALL BE INSTALLED COMPLETE WITH PULLWIRE.
T2. THE NUMBER OF CABLES IN ANY PATHWAY SHALL NOT EXCEED 40% FILL.
T3. PROVIDE CAT 6 STRUCTURED CABLING (PLENUM RATED) PER VA STANDARDS.
T4. PROVIDE 5' SERVICE LOOPS FOR CABLING AT NEW TELECOMMUNICATIONS OUTLETS.
T5. PROVIDE 50' SERVICE LOOPS FOR CABLING AT WIRELESS ACCESS OUTLETS.
T6. REFER TO TECHNOLOGY DETAILS AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
T7. REFER TO TECHNOLOGY KEY PLAN FOR CABLE TRAY ROUTING.

SECURITY CAMERA GENERAL NOTES:

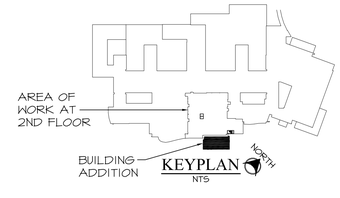
S1. REFER TO SECURITY CAMERA CABLING RISER DIAGRAM ON DRAWING 0-T3-2 FOR ADDITIONAL INFORMATION REGARDING CONNECTION REQUIREMENTS.
S2. FIELD VERIFY MOUNTING LOCATIONS FOR CAMERAS WITH VA COTR PRIOR TO ROUGH-IN.
S3. CONTRACTOR SHALL MAKE FINAL ADJUSTMENTS TO AIMING AND ORIENTATION AFTER OWNER'S INSPECTION.

CODED NOTES:

1. EXTEND EXISTING SECURITY CAMERA CONDUIT AND CABLING (3/4"C-(1)RG59) TO NEW LOCATION. MATCH EXISTING CABLE TYPE. CONDUIT AND CABLING SHALL BE RE-ROUTED OUTSIDE OF THE STAIRWELL. MOUNT AT 9'-6" ABOVE GRADE - FIELD VERIFY EXACT MOUNTING LOCATION AND HEIGHT WITH VA COTR PRIOR TO ROUGH-IN.
2. PROVIDE DOOR CONTACTS FOR EXISTING DOOR AND FRAME. CONNECT SECURITY CABLING TO EXISTING SECURITY PANEL IN FIRST FLOOR TELECOMM. ROOM. REFER TO FIRST FLOOR TECHNOLOGY KEY PLAN DRAWING 0-T2-1 FOR LOCATION.



PARTIAL FIRST FLOOR MECH. RM.
TELECOMMUNICATIONS PLAN - PHASE 1 (2)
SCALE: 1/8" = 1'0"



KEYPLAN
NTS

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