Department of Veterans Affairs

Surgery Addition

Project #: 541-364

10701 East Blvd.
Cleveland, Ohio 44106

SOLICITATION VA250-12-B-0276
FINAL BID DOCUMENTS - FOR CONSTRUCTION
March 16, 2012

VOLUME 2 OF 2

FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

APPROVALS:

NAME	DATE	NAME	DATE
NAME	DATE	NAME	DATE
NAME	DATE	NAME	DATE

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-6900 p (440) 891-6906 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9900
FAX. (440) 546-9020

Drawing Title	COVER SHEET - VOLUME 2
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	0-CS2-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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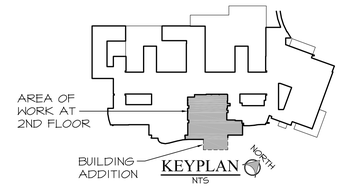

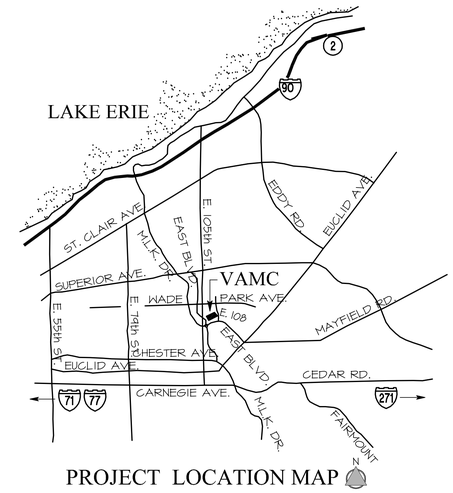

PROJECT LOCATION MAP

SHEET NUMBERING KEY:

0-A0-1

PHASE
DISCIPLINE
DRAWING NUMBER

PHASES:
0 = GENERAL CONDITIONS (APPLY TO ALL PHASES)
1 = PHASE 1 CONSTRUCTION
2 = PHASE 2 CONSTRUCTION
3 = PHASE 3 CONSTRUCTION

DISCIPLINES:
A = ARCHITECTURAL
C = CIVIL
S = STRUCTURAL
FP = FIRE PROTECTION
MG = MEDICAL GAS
P = PLUMBING
H = HVAC (MECHANICAL)
E = ELECTRICAL
T = TECHNOLOGY

MAKOVICH & PUSTI ARCHITECTS, INC.
ARCHITECTS
111 FRONT STREET
BEREA, OH 44017
Phone:(440) 891-8910
Fax:(440) 891-0086
Email: mmolchan@mparc.com

EUTHENICS, INC.
CIVIL ENGINEER
235 MOWHAWK DRIVE
STRONGSVILLE, OH 44136
Phone:(440) 260-1555
Fax:(440) 260-1544
Email: arpiatak@euthenics-inc.com

ALBER & RICE INC.
CONSULTING ENGINEERS
STRUCTURAL ENGINEER
17138 LORAIN RD., SUITE 209
CLEVELAND, OHIO 44111
Phone:(216) 252-7840
Fax:(216) 252-7841
Email: bob@alberandrice.com

FREDRICK, FREDRICK, & HELLER ENGINEERS, INC.
MECHANICAL & ELECTRICAL ENGINEERS
672 EAST ROYALTON ROAD
BROADVIEW HEIGHTS, OH 44147
Phone:(440) 546-9696
Fax:(440) 546-9699
Email: lhendrix@ffhengineers.com
Email: tglyde@ffhengineers.com

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CONSULTANTS:

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8910 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-9699

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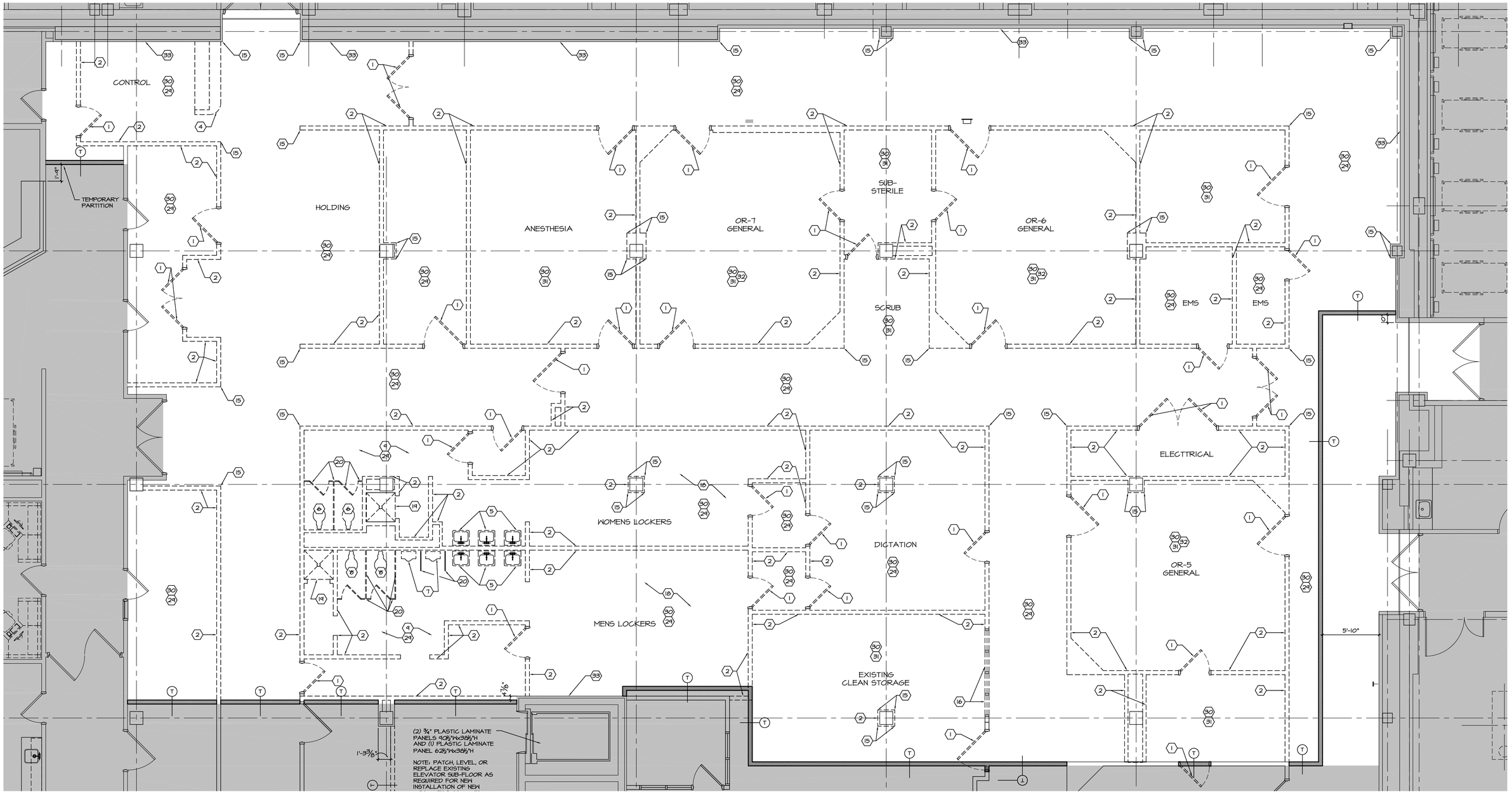

PHASE 2
ENLARGED DEMOLITION PLAN
¼"=1'-0"

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.

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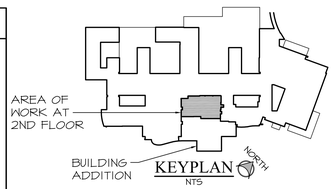
CODED DEMOLITION NOTES

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. 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.
34. REMOVE PLASTIC LAMINATE PANELS



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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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0917 p (440) 891-0916 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX: (440) 546-8686

Drawing Title: ENLARGED DEMOLITION PLAN PHASE 2	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-A1-1
	Date: 03-16-12	Checked By: MJM / Drawn By: JLC	

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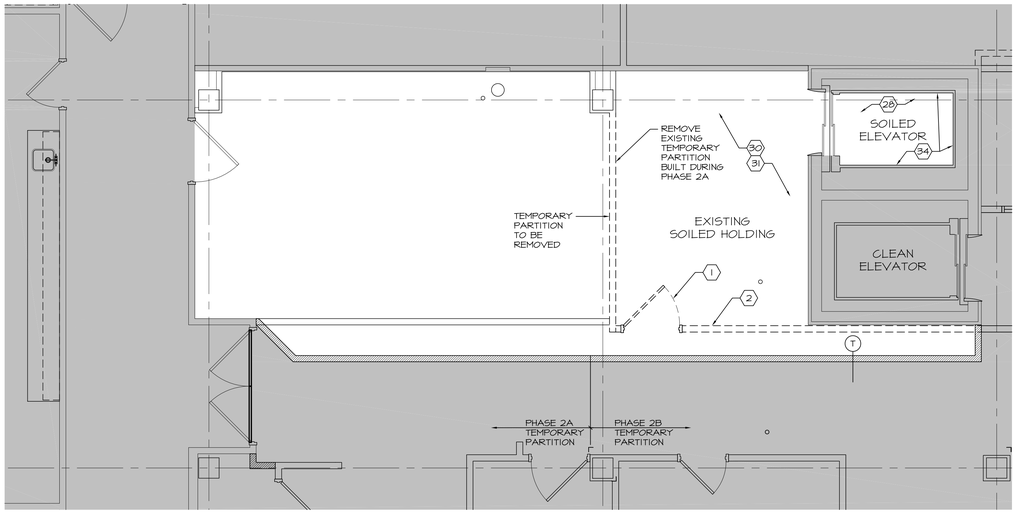
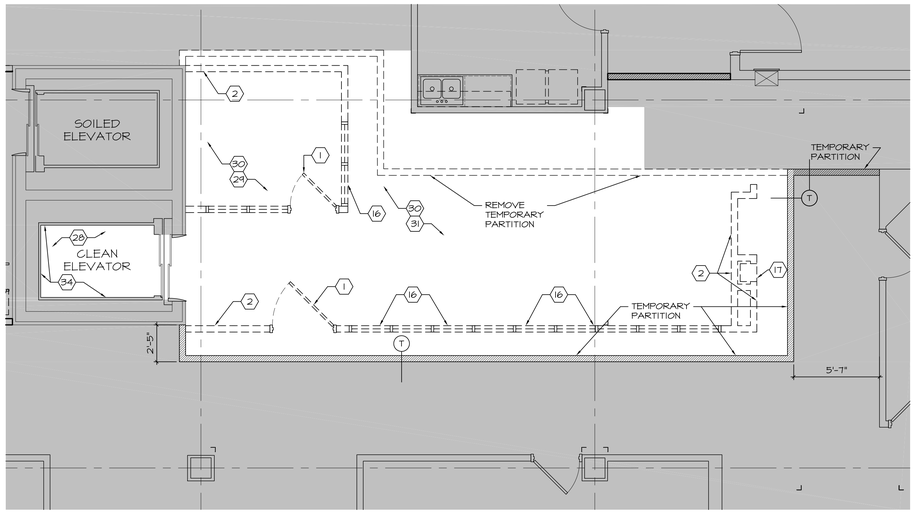
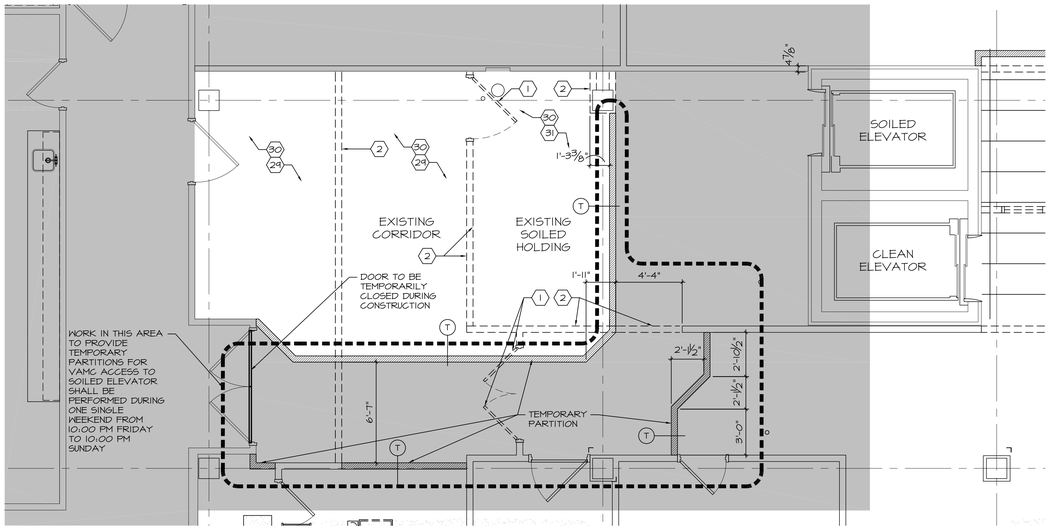


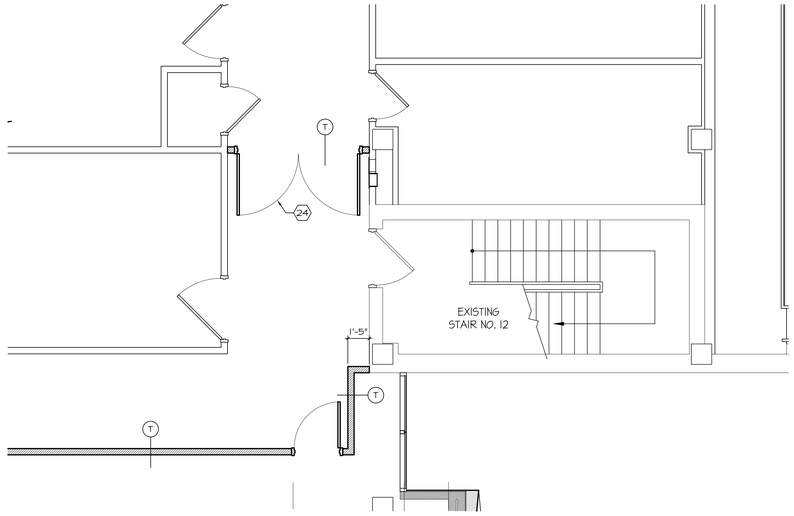
PHASE 2B
ENLARGED DEMOLITION PLAN
¼"=1'-0"



PHASE 2C
ENLARGED DEMOLITION PLAN
¼"=1'-0"



PHASE 2A
ENLARGED DEMOLITION PLAN
¼"=1'-0"



PHASE 2A
ENLARGED DEMOLITION PLAN
¼"=1'-0"

TEMPORARY PARTITION / INFECTION CONTROL GENERAL NOTES

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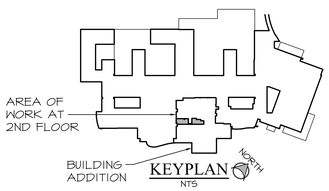

FOR CONSTRUCTION

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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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
EL. (440) 546-0600
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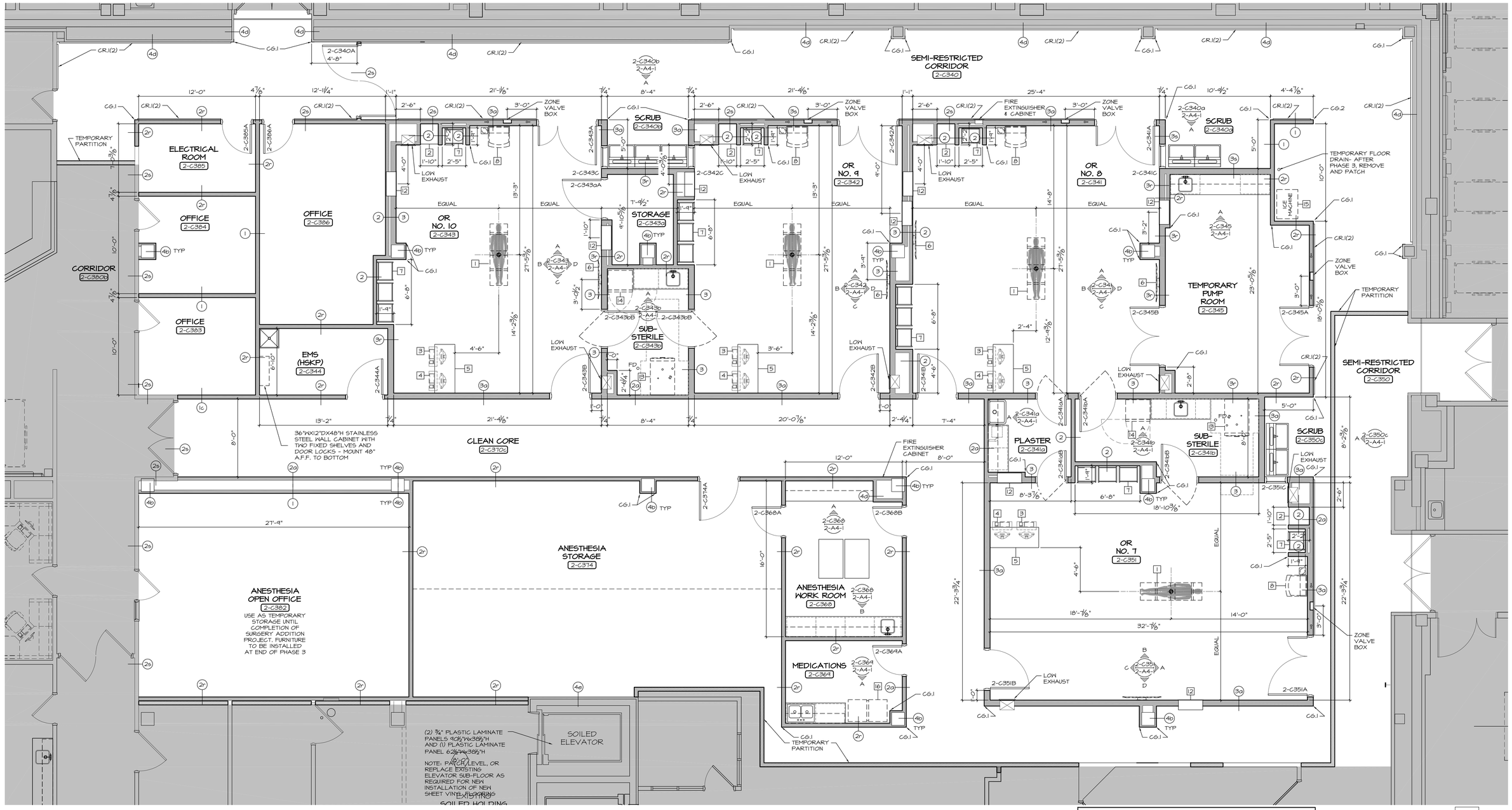
Drawing Title: ENLARGED DEMOLITION PLANS PHASES 2A, 2B, AND 2C	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: 541-364
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Building Number:
	Date: 03-16-12	Checked By: MJM / Drawn By: JLC	Drawing Number: 2-A1-2

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PHASE 2
ENLARGED FLOOR PLAN
¼"=1'-0"

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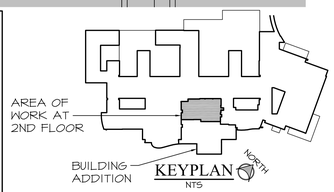

FOR CONSTRUCTION

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ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0906 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
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BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9680

Drawing Title: PHASE 2 ENLARGED FLOOR 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: 2-A2-1

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Department of Veterans Affairs

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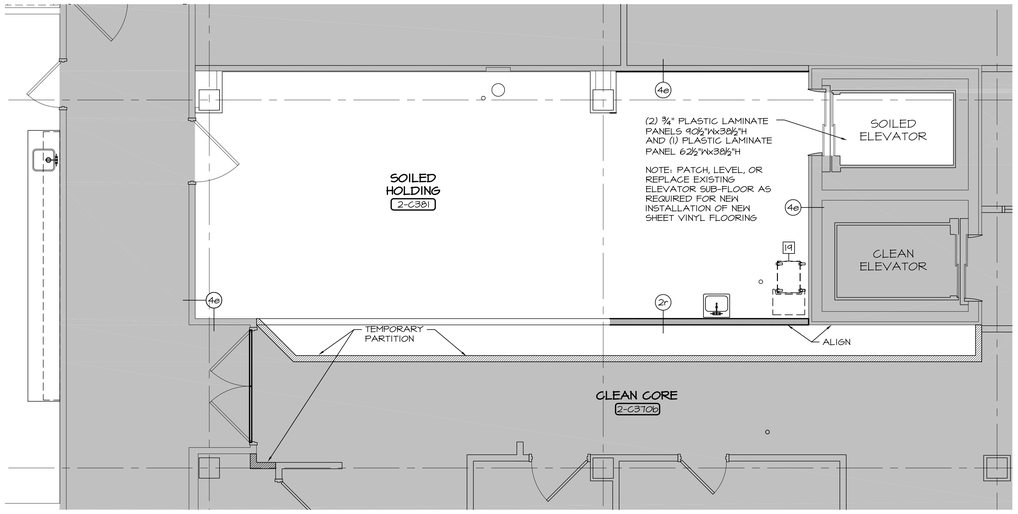
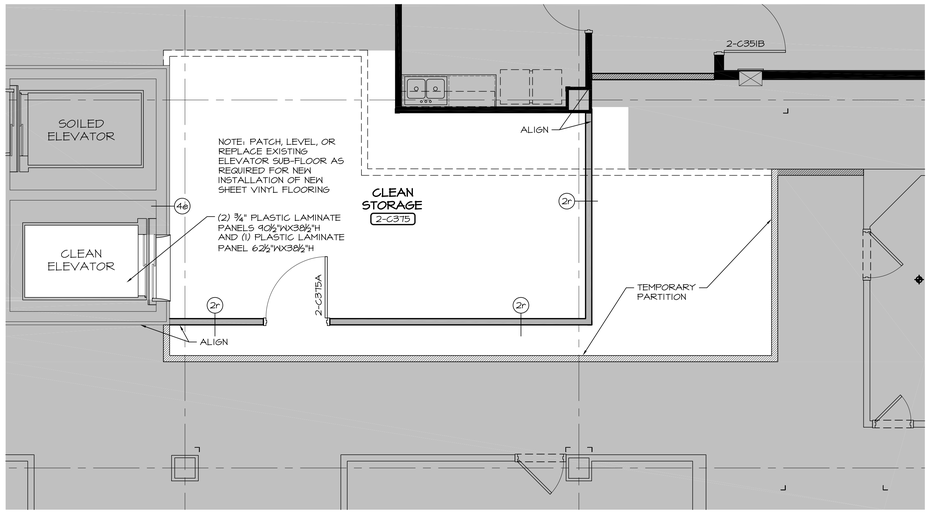
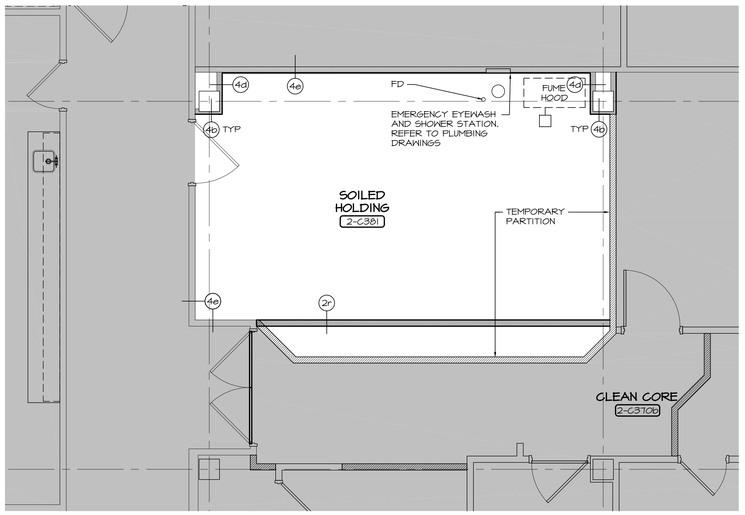


PHASE 2B
ENLARGED FLOOR PLAN
¼"=1'-0"



PHASE 2C
ENLARGED FLOOR PLAN
¼"=1'-0"



PHASE 2A
ENLARGED FLOOR PLAN
¼"=1'-0"

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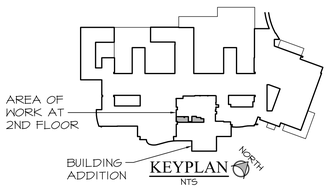

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FOR CONSTRUCTION

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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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0056 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX: (440) 546-9899

Drawing Title: PHASES 2A, 2B, AND 2C ENLARGED FLOOR PLANS	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-A2-2
	Date: 03-16-12	Checked By: MJM	Drawn By: JLC

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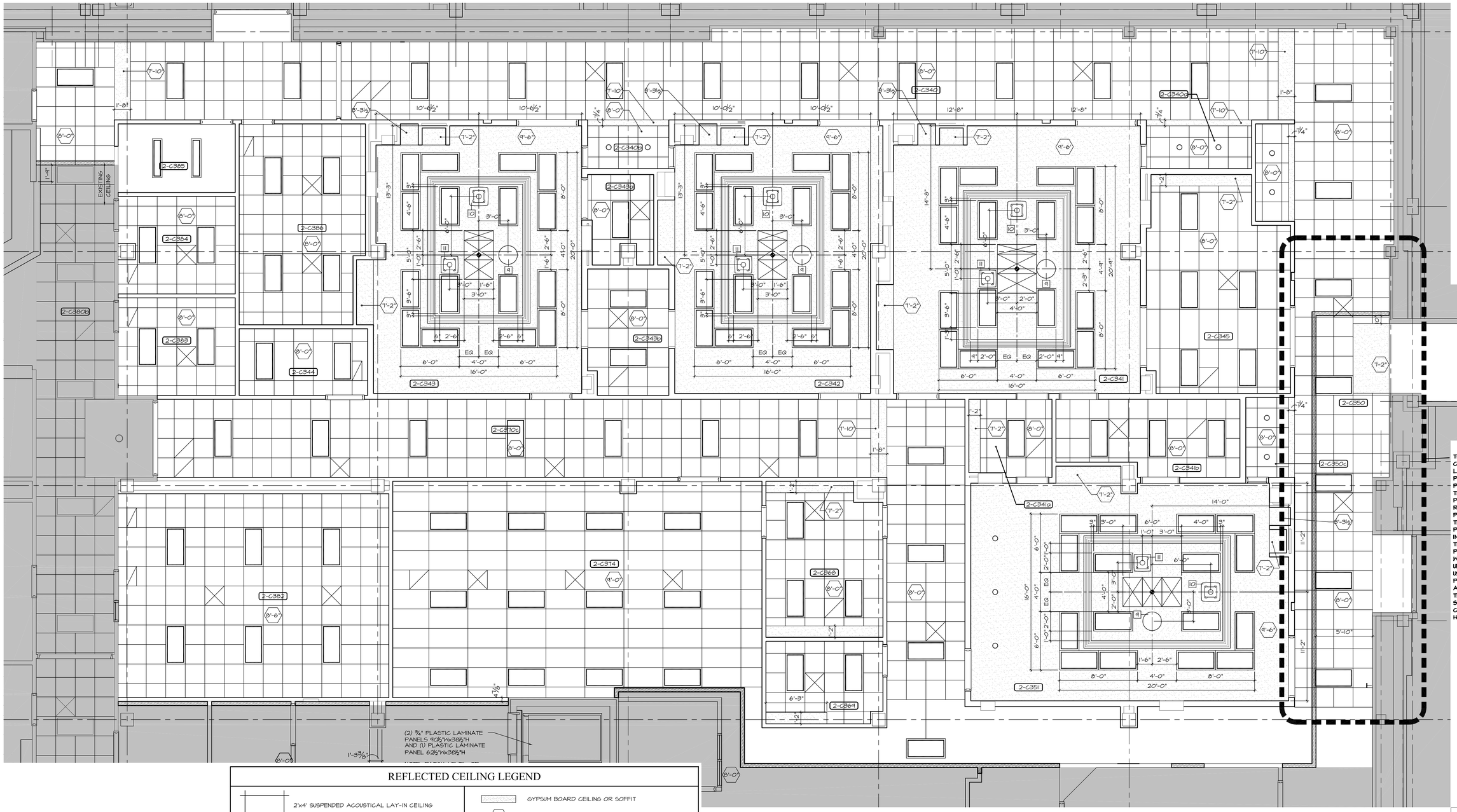
Department of Veterans Affairs

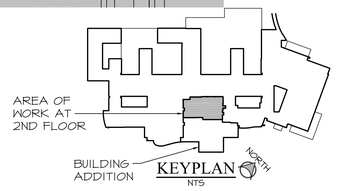
VA FORM 08-6231



PHASE 2
ENLARGED REFLECTED CEILING PLAN
1/4"=1'-0"

REFLECTED CEILING LEGEND

- 2'x4' SUSPENDED ACOUSTICAL LAY-IN CEILING
- 2'x4' FLUORESCENT LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS
- 2'x2' SUSPENDED ACOUSTICAL LAY-IN CEILING
- DOWNLIGHT, REFER TO ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER, REFER TO MECHANICAL DWGS
- RETURN AIR DIFFUSER, REFER TO MECHANICAL DWGS
- GYPSUM BOARD CEILING OR SOFFIT
- 0'-0" FINISHED CEILING HEIGHT
- INDICATES EQUIPMENT ITEM, REFER TO EQUIPMENT SCHEDULE, DWG 0-A5-3



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MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
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Drawing Title	ENLARGED REFLECTED CEILING PLAN PHASE 2
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	2-A3-1

Office of Construction and Facilities Management

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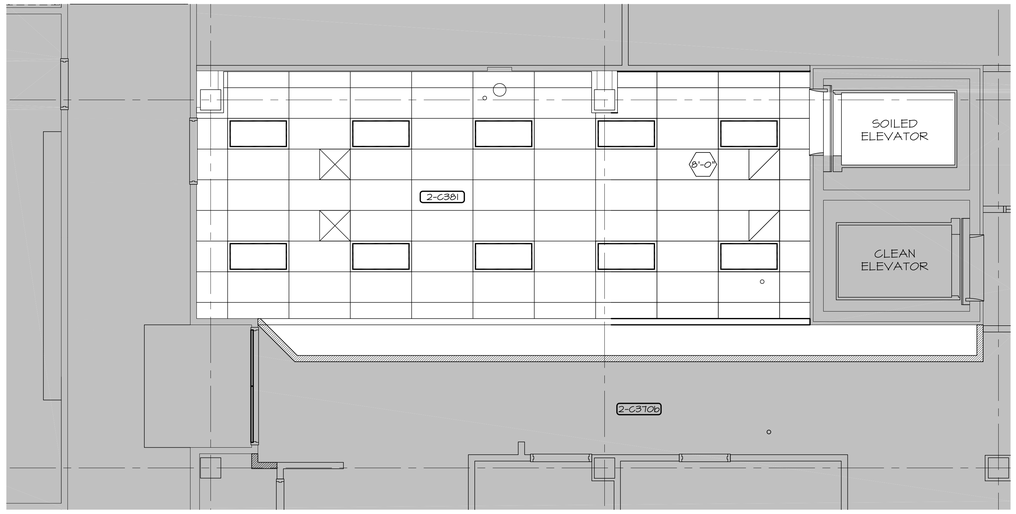
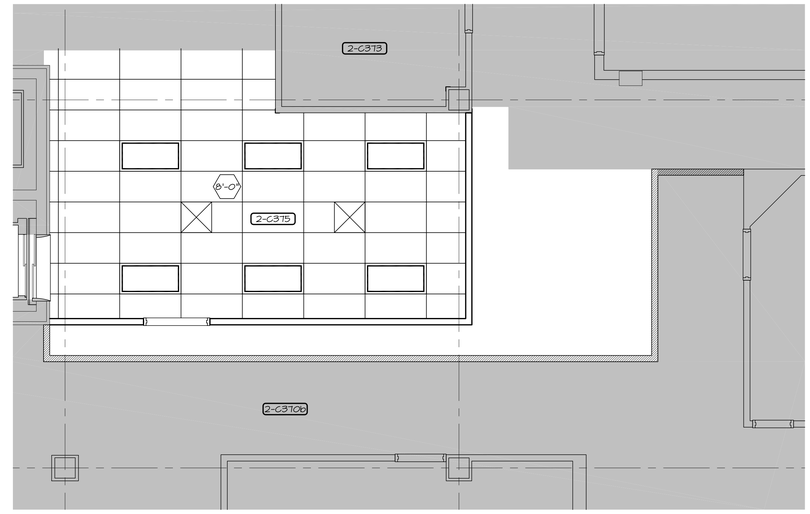


PHASE 2B
REFLECTED CEILING PLAN
¼"=1'-0"



PHASE 2C
REFLECTED CEILING PLAN
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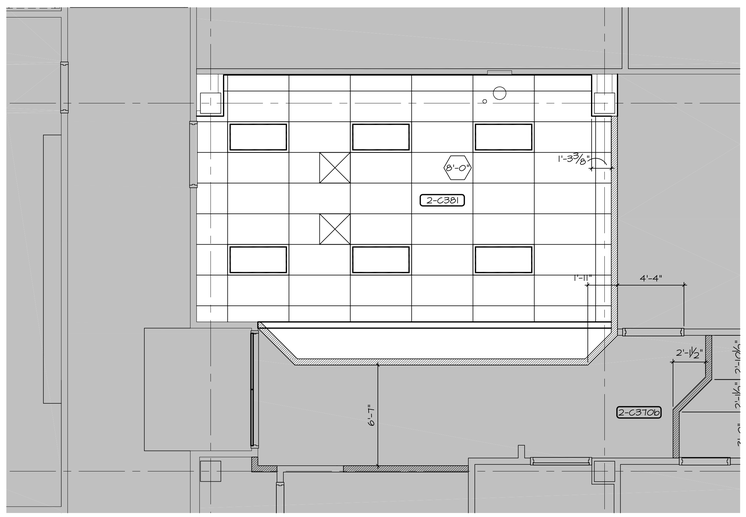

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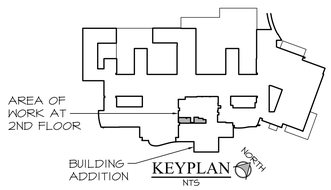

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FOR CONSTRUCTION

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CONSULTANTS:

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(440) 891-0910 p (440) 891-0906 f

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BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9690

Drawing Title: PHASES 2A, 2B, AND 2C REFLECTED CEILING PLANS

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: 2-A3-2

Office of Construction and Facilities Management

Department of Veterans Affairs

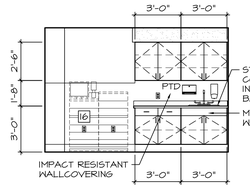
VA FORM 08-6231

GENERAL NOTES:

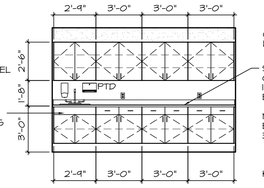
1. PROVIDE IN-WALL REINFORCING FOR ATTACHMENT OF BASE AND WALL CABINETS, ROOM ACCESSORIES, AND ALL WALL MOUNTED EQUIPMENT.

ABBREVIATIONS

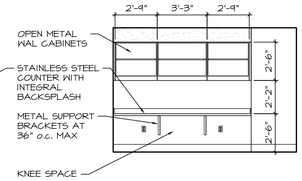
CG	CORNER GUARD
PTD	PAPER TOWEL DISPENSER
O—	INDICATES EQUIPMENT ITEM. REFER TO DRAWING O-A5-3 FOR EQUIPMENT SCHEDULE



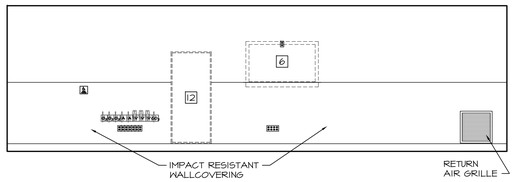
MEDICATIONS 2-C369-A
1/4"=1'-0"



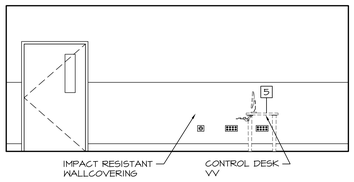
ANESTHESIA WORK ROOM - 2-C368-B
1/4"=1'-0"



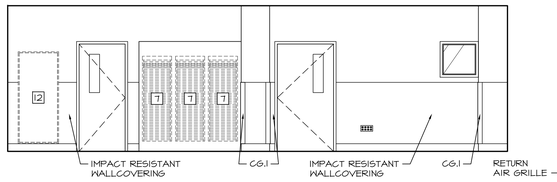
ANESTHESIA WORK ROOM - 2-C368-A
1/4"=1'-0"



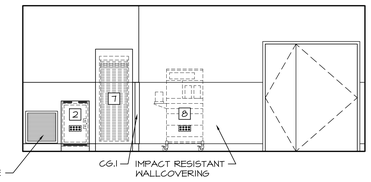
OR NO. 7 - 2-C351-D
1/4"=1'-0"



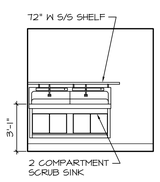
OR NO. 7 - 2-C351-C
1/4"=1'-0"



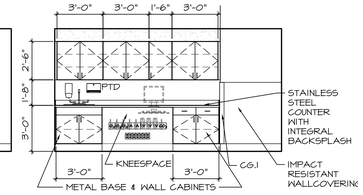
OR NO. 7 - 2-C351-B
1/4"=1'-0"



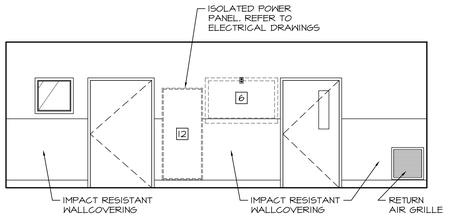
OR NO. 7 - 2-C351-A
1/4"=1'-0"



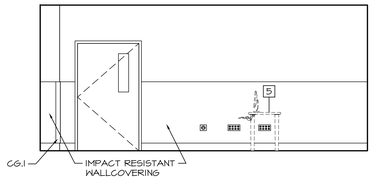
SCRUB - 2-C350c-A
1/4"=1'-0"



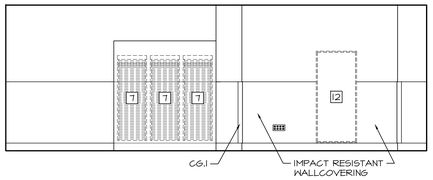
TEMPORARY PUMP ROOM - 2-C345-A
1/4"=1'-0"



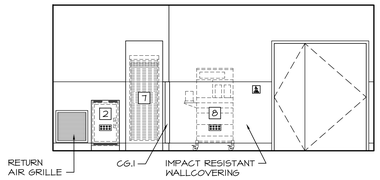
OR NO. 10 - 2-C343-D
1/4"=1'-0"



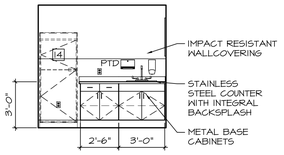
OR NO. 10 - 2-C343-C
1/4"=1'-0"



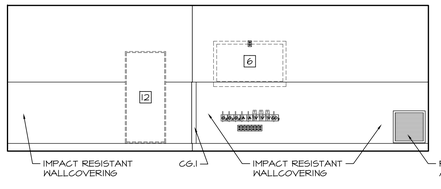
OR NO. 10 - 2-C343-B
1/4"=1'-0"



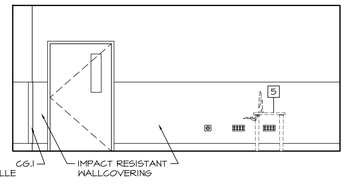
OR NO. 10 - 2-C343-A
1/4"=1'-0"



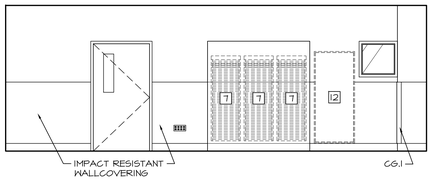
SUB-STERILE - 2-C343b-A
1/4"=1'-0"



OR NO. 9 - 2-C342-D
1/4"=1'-0"



OR NO. 9 - 2-C342-C
1/4"=1'-0"



OR NO. 9 - 2-C342-B
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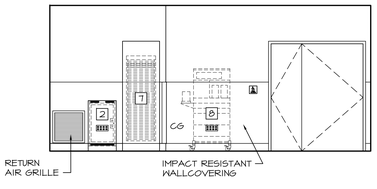
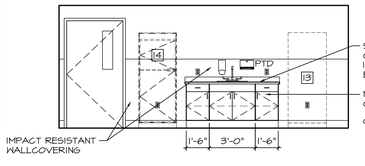
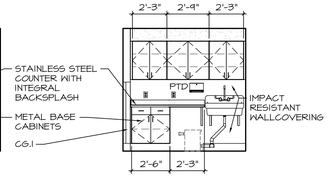


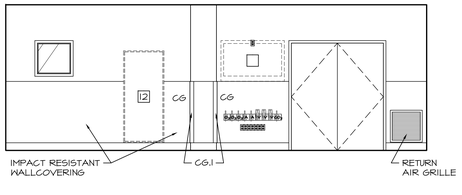
OR NO. 9 - 2-C342-A
1/4"=1'-0"



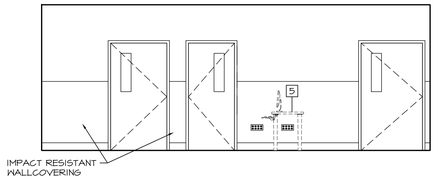
SUB-STERILE - 2-C341b-A
1/4"=1'-0"



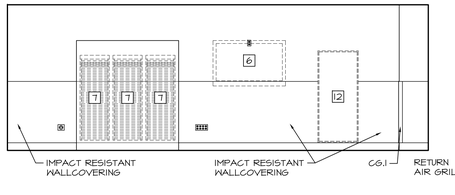
PLASTER - 2-C341a-A
1/4"=1'-0"



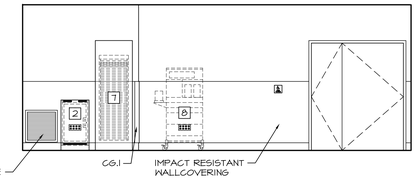
OR NO. 8 - 2-C341-D
1/4"=1'-0"



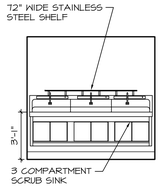
OR NO. 8 - 2-C341-C
1/4"=1'-0"



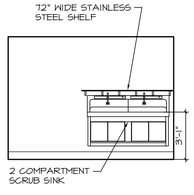
OR NO. 8 - 2-C341-B
1/4"=1'-0"



OR NO. 8 - 2-C341-A
1/4"=1'-0"



SCRUB - 2-C340b-A
1/4"=1'-0"



SCRUB - 2-C340a-A
1/4"=1'-0"

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

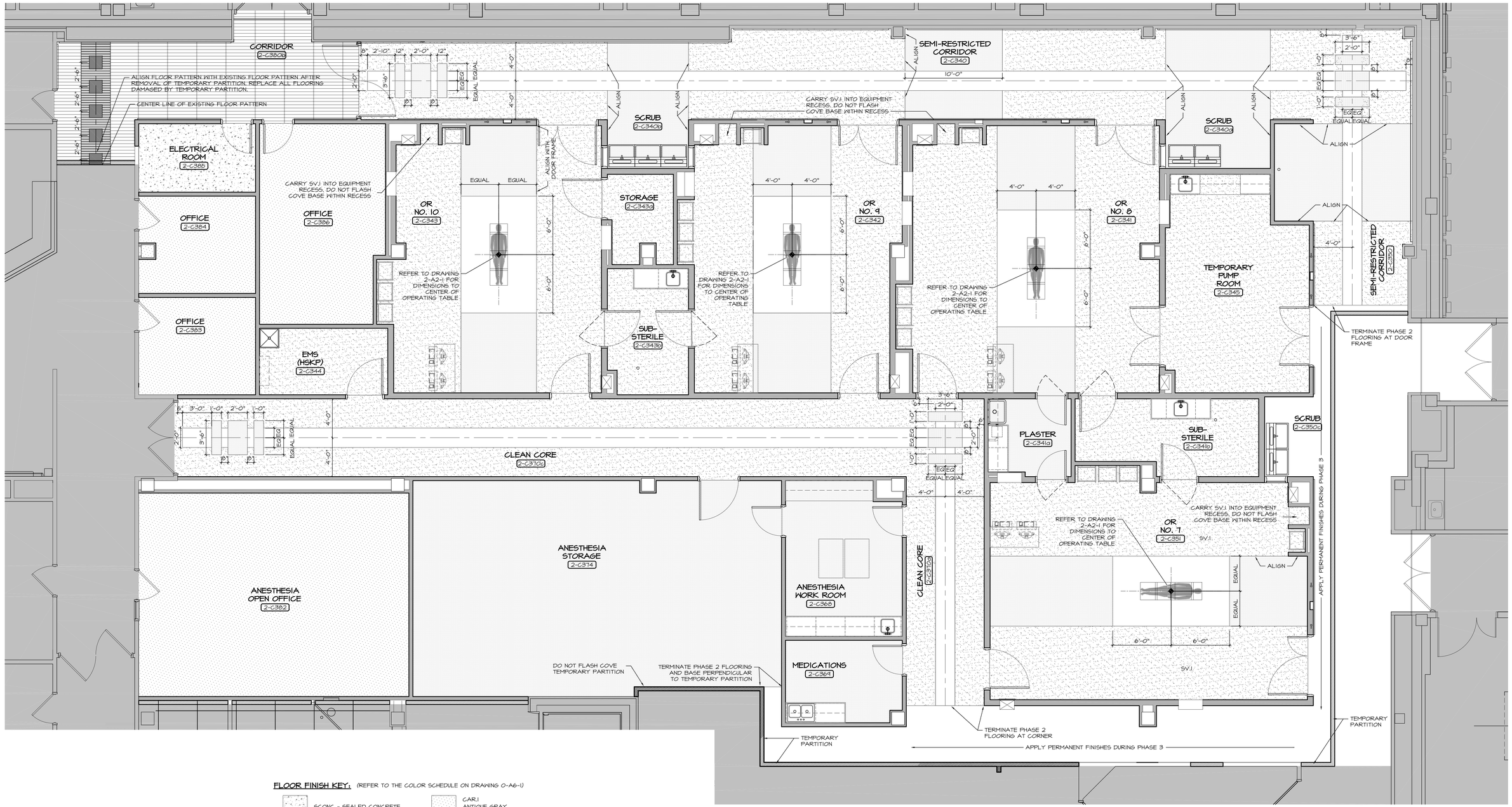
ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0896 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-8680

Drawing Title: INTERIOR ELEVATIONS - PHASE 2	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: 2-A4-1	Department of Veterans Affairs
	Date: 03-16-12 / Checked By: MJM / Drawn By: mjm		

VA FORM 08-6231

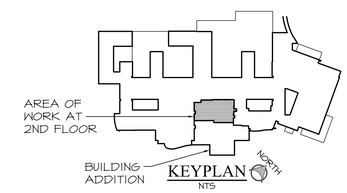


FLOOR FINISH KEY: (REFER TO THE COLOR SCHEDULE ON DRAWING 0-A6-1)

- SCONC - SEALED CONCRETE
- SVT.3 SOLID VINYL TILE - BIRSEYE MAPLE 18" x 18"
- SVP.1 SOLID VINYL PLANK - AUTUMN 4" X 36"
- SVP.2 SOLID VINYL PLANK - NATURAL 3" X 36"
- CAR.1 ANTIQUE GRAY 12' BROADLOOM
- SV.1 SHEET VINYL - WINTER WHEAT 6' WIDE
- SV.2 SHEET VINYL - CITRUS ICE 6'-0" WIDE
- SV.3 SHEET VINYL - FROSTED SILK 6'-0" WIDE

NOTE TO FLOORING CONTRACTORS:
IF THE HATCH PATTERNS IN THE KEY AND ON THE PLAN ARE NOT EASILY DISTINGUISHABLE, PLEASE REQUEST A NEW COPY.

PHASE 2
ENLARGED FLOOR FINISH PLAN
¼"=1'-0"



KEYPLAN
NTS

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0056 f

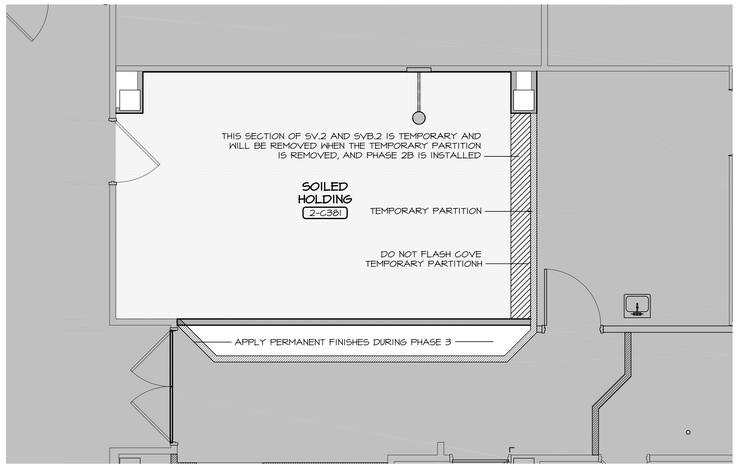
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX (440) 546-9899

Drawing Title: PHASE 2 ENLARGED FLOOR FINISH PLAN	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 / Drawn By: KBH	Drawing Number: 2-A5-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

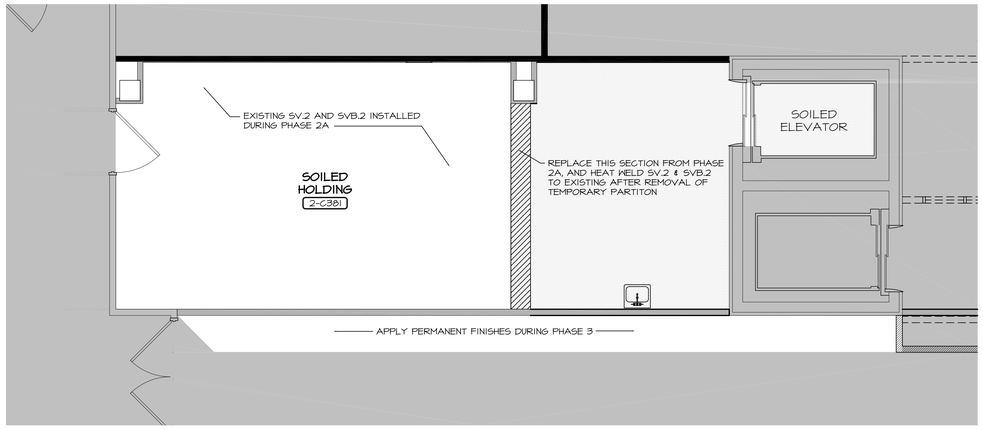


PHASE 2A
ENLARGED FLOOR PLAN
¼"=1'-0"

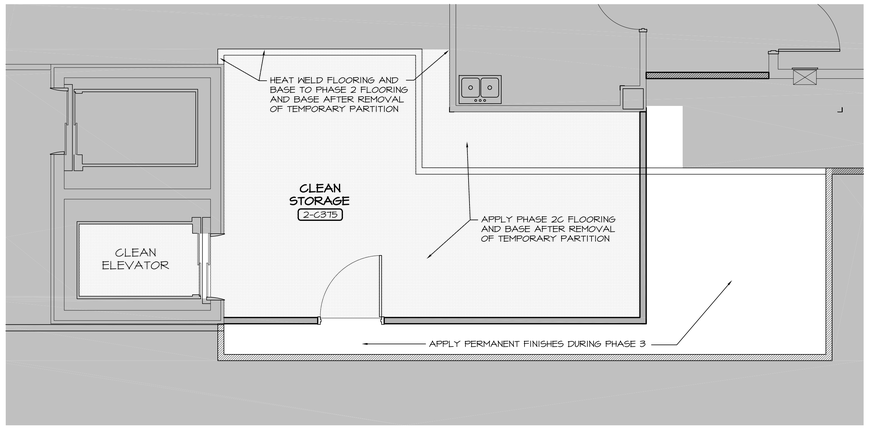
FLOOR FINISH KEY: (REFER TO THE COLOR SCHEDULE ON DRAWING 0-A6-1)

SCONC - SEALED CONCRETE	CAR.1 ANTIQUE GRAY 12' BROADLOOM
SVT.3 SOLID VINYL TILE - BIRSEYE MAPLE 18" x 18"	SV.1 SHEET VINYL - WINTER WHEAT 6' WIDE
SVP.1 SOLID VINYL PLANK - AUTUMN 4" X 36"	SV.2 SHEET VINYL - CITRUS ICE 6'-0" WIDE
SVP.2 SOLID VINYL PLANK - NATURAL 3" X 36"	SV.3 SHEET VINYL - FROSTED SILK 6'-0" WIDE

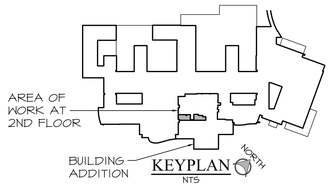
NOTE TO FLOORING CONTRACTORS:
IF THE HATCH PATTERNS IN THE KEY AND ON THE PLAN ARE NOT EASILY DISTINGUISHABLE, PLEASE REQUEST A NEW COPY.



PHASE 2B
ENLARGED FLOOR PLAN
¼"=1'-0"



PHASE 2C
ENLARGED FLOOR PLAN
¼"=1'-0"



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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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9600
FAX (440) 546-9609

Drawing Title: PHASES 2A, 2B AND 2C ENLARGED FLOOR FINISH PLANS

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	KBH

Project Number: 541-364

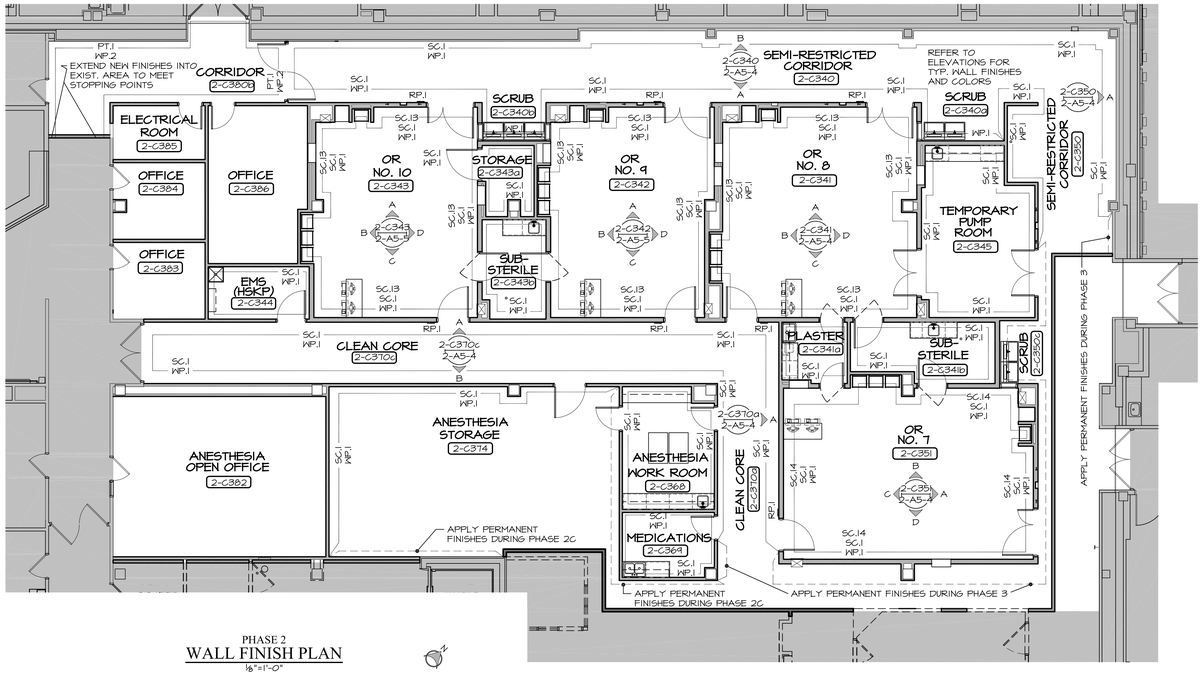
Building Number:

Drawing Number: 2-A5-2

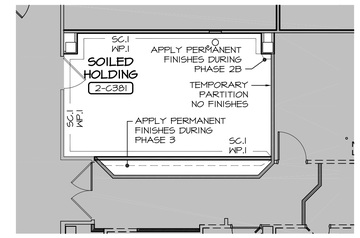
Office of Construction and Facilities Management

Department of Veterans Affairs

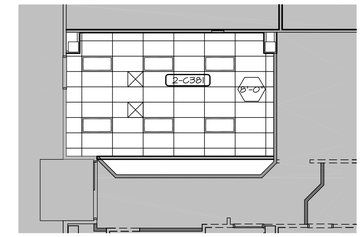
VA FORM 08-6231



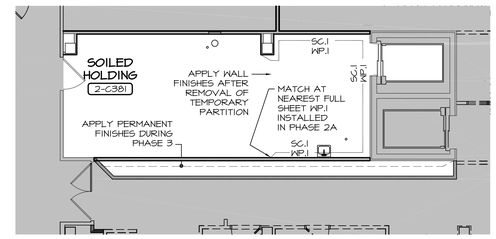
PHASE 2
WALL FINISH PLAN
1/8"=1'-0"



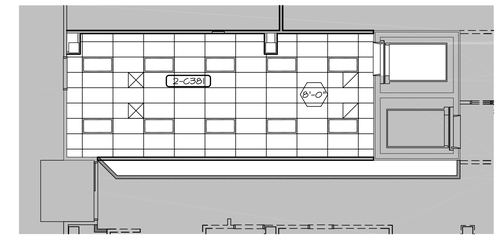
PHASE 2A
WALL FINISH PLAN
1/8"=1'-0"



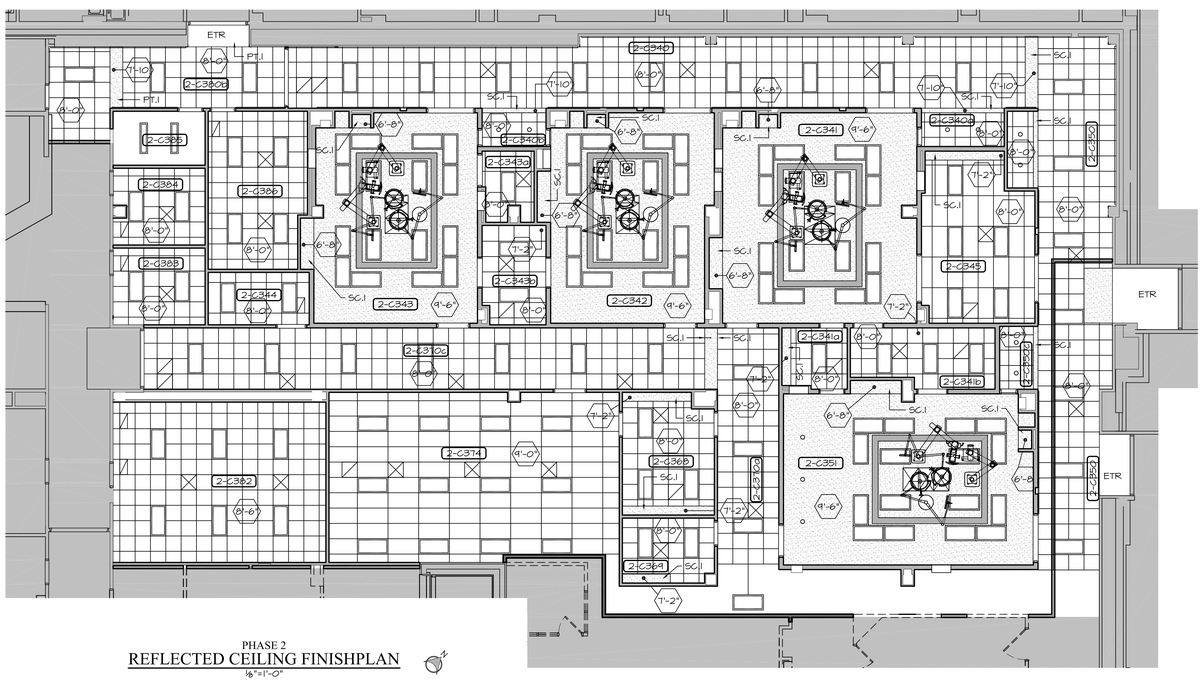
PHASE 2A
REFLECTED CEILING FINISH PLAN
1/8"=1'-0"



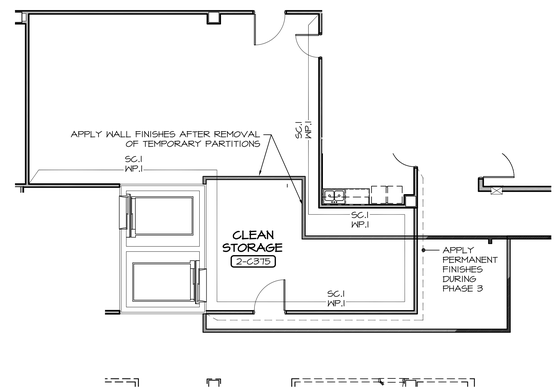
PHASE 2B
WALL FINISH PLAN
1/8"=1'-0"



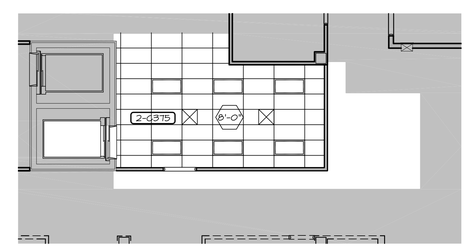
PHASE 2B
REFLECTED CEILING FINISH PLAN
1/8"=1'-0"



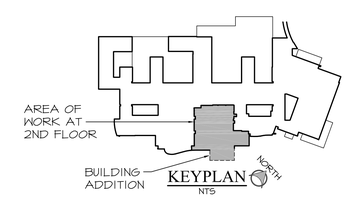
PHASE 2
REFLECTED CEILING FINISHPLAN
1/8"=1'-0"



PHASE 2C
WALL FINISH PLAN
1/8"=1'-0"



PHASE 2C
REFLECTED CEILING FINISH PLAN
1/8"=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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0088 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
872 EAST ROYAL SON ROAD
BROADVIEW HEIGHTS, OHIO 44147
EL. (440) 546-9898
FAX: (440) 546-9899

Drawing Title: PHASES 2, 2A, 2B & 2C - WALL AND REFLECTED CEILING FINISH PLANS

Approved: Project Director

Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION SECOND FLOOR

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

Project Number: 541-364

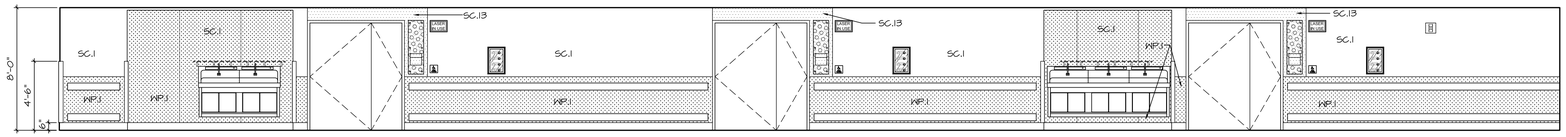
Building Number:

Drawing Number: 2-A5-3

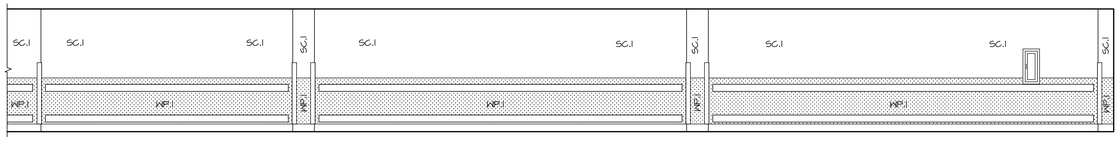
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



SEMI-RESTRICTED
CORRIDOR 2-C340 - A
1/4"=1'-0"
(REFER TO DETAIL ELEVATION - A THIS SHEET)



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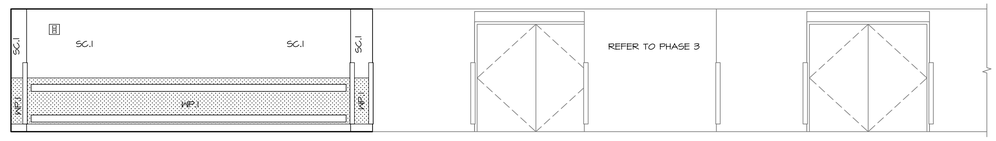
CORRIDOR 2-C340 - B
1/4"=1'-0"
(REFER TO DETAIL ELEVATION - C THIS SHEET)



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CORRIDOR 2-C350 - A
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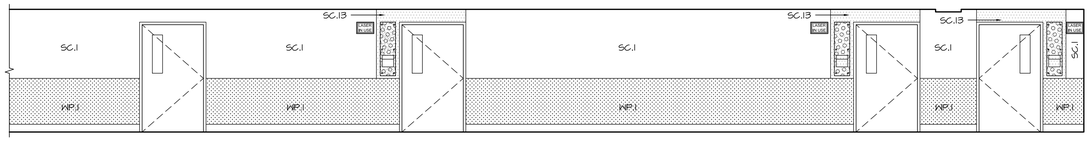
(REFER TO DETAIL ELEVATION - C THIS SHEET)



CLEAN CORE 2-C370c - A
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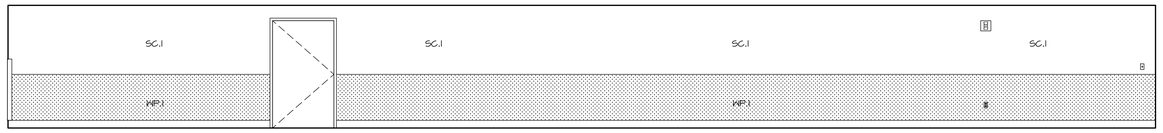
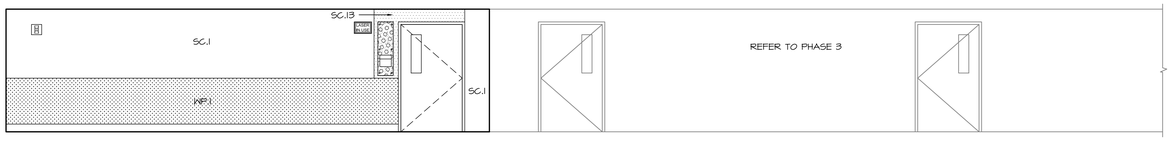
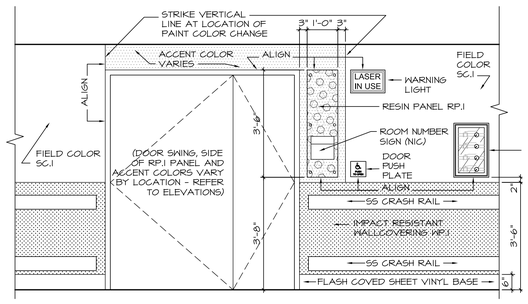
(REFER TO DETAIL ELEVATION - B THIS SHEET)



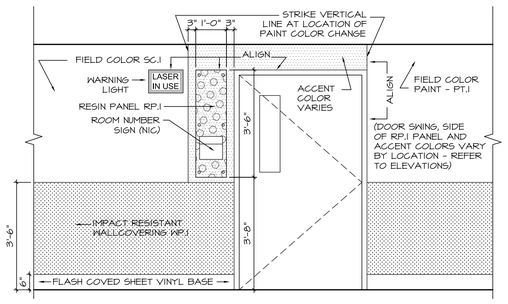
CLEAN CORE 2-C370c - B
1/4"=1'-0"
(REFER TO DETAIL ELEVATION - C THIS SHEET)



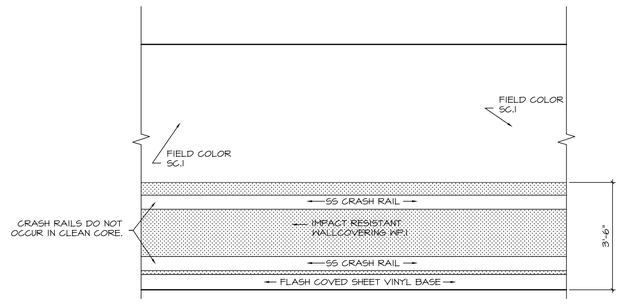
CLEAN CORE 2-C370a - A
1/4"=1'-0"
(REFER TO DETAIL ELEVATION - B THIS SHEET)



DETAIL ELEVATION - A
AT O.R. ENTRANCE
SEMI-RESTRICTED CORRIDOR
1/2"=1'-0"



DETAIL ELEVATION - B
AT O.R. ENTRANCE
CLEAN CORE
1/2"=1'-0"



DETAIL ELEVATION - C
AT CORRIDOR
MURAL PANEL
1/2"=1'-0"

FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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

ARCHITECT/ENGINEERS:

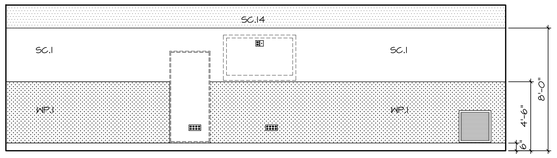
MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0919 p (440) 891-0906 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX. (440) 546-9898

Drawing Title: PHASE 2 - INTERIOR FINISH ELEVATIONS	Project Title: VAMC WADE PARK CLEVELAND SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-A5-4
	Date: 03-16-12	Checked By: MJM	Drawn By: KBH

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



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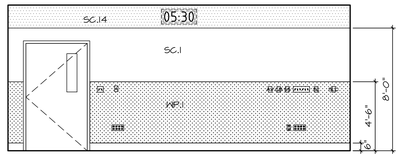

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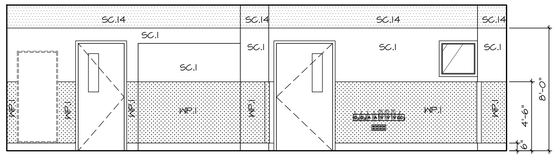

OR NO. 7 - 2-C351-B
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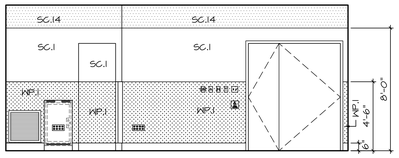

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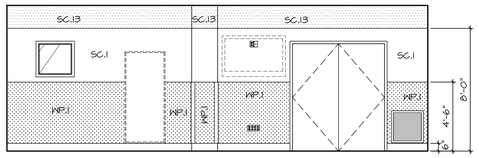
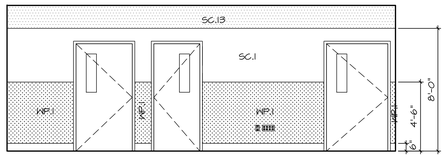


OR NO. 8 - 2-C341-D
1/4"=1'-0"



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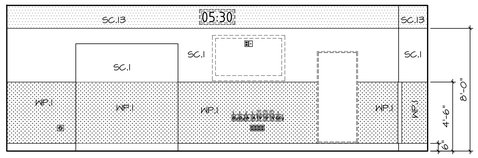

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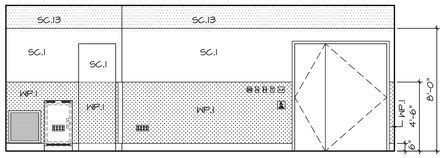

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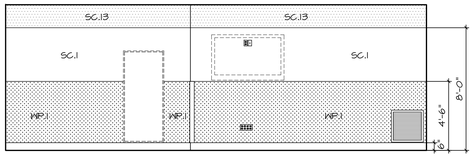

OR NO. 9 - 2-C342-D
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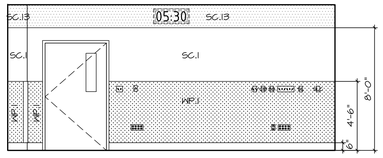

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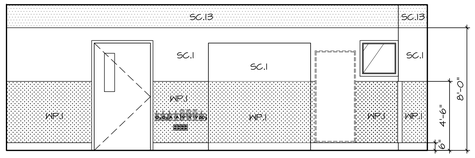

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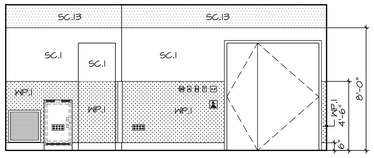

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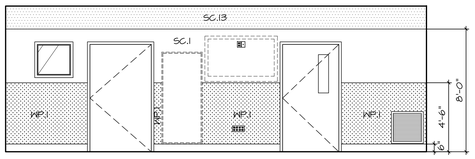

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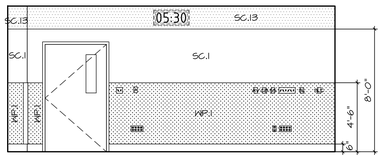

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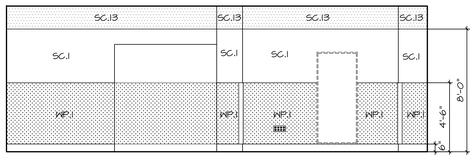
1/4"=1'-0"



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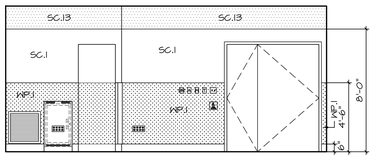


OR NO. 10 - 2-C343-A
1/4"=1'-0"

FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0919 p (440) 891-0906 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9898
FAX: (440) 546-9898

Drawing Title: PHASE 2 - INTERIOR FINISH ELEVATIONS

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: KBH

Project Number: 541-364

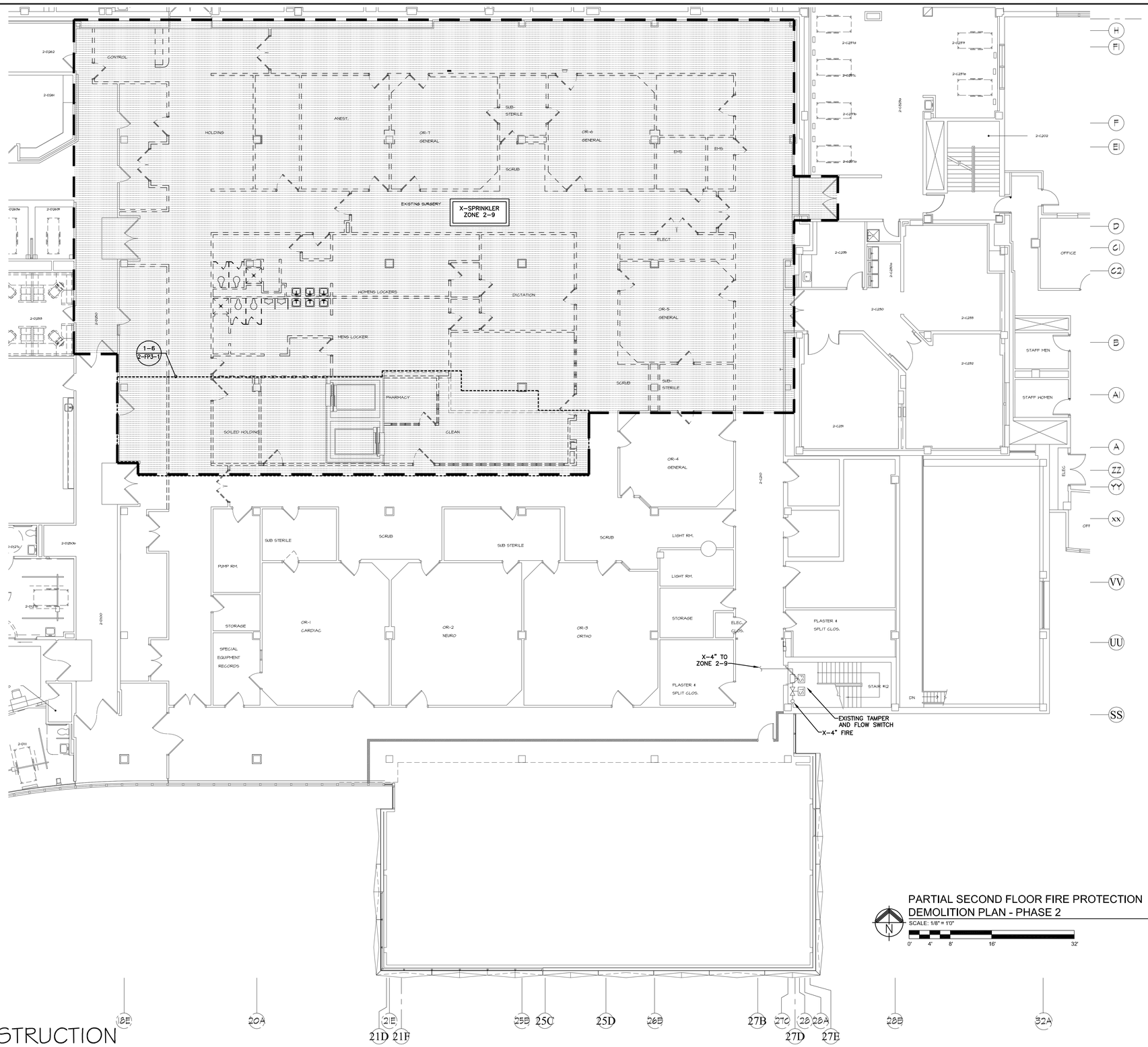
Building Number:

Drawing Number: 2-A5-5

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



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.

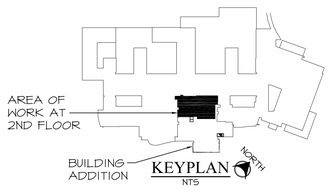
FIRE SUPPRESSION LEGEND

EXISTING SPRINKLER MAIN PIPING, BRANCH PIPING AND SPRINKLER HEADS TO BE REMOVED. BRANCHES AND MAINS FED FROM ACTIVE AREAS SHALL BE REMOVED TO OUTSIDE OF SHADED AREA AND CAPPED OR REWORKED. AREAS OUTSIDE OF SHADED AREA SHALL REMAIN 100% SPRINKLERED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL PHASING INFORMATION.

PARTIAL SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'



FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — BRIAN R. WLOSINSKI 66625 — PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0986 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST BOULDER ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-0000
FAX: (440) 546-0000

Drawing Title: PARTIAL SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN - PHASE 2

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

Project Number: 541-364

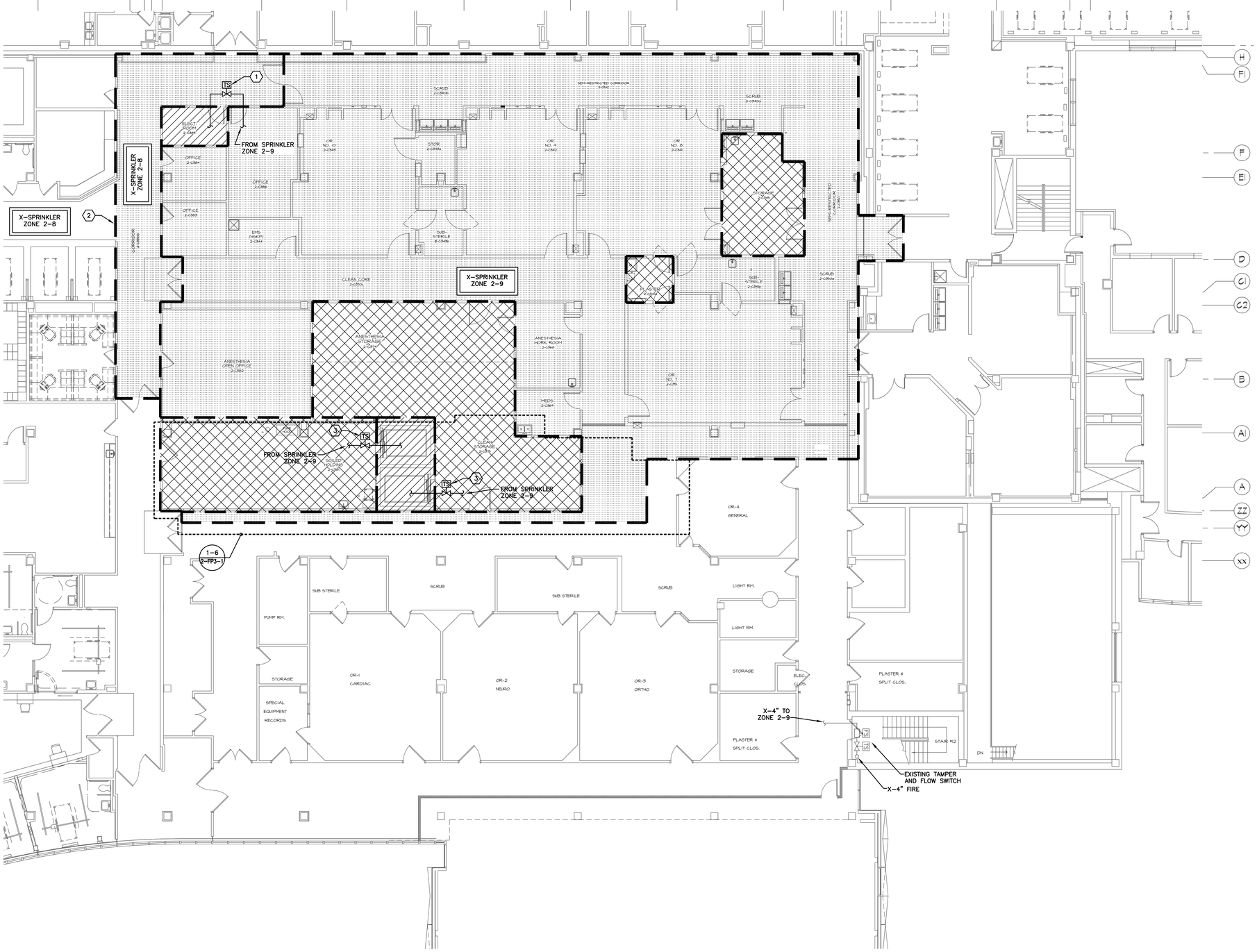
Building Number:

Drawing Number: 2-FP1-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL SECOND FLOOR FIRE PROTECTION PLAN - PHASE 2 (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

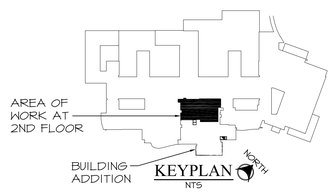
PROVIDE NEW SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. PROVIDE ALL NEW BRANCH PIPING. PROVIDE NEW RECESSED CONCEALED SPRINKLER HEADS WITH WHITE COVERPLATES IN ROOMS WITH CEILINGS. COORDINATE HEADS AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. SPRINKLER PER NFPA 13, LIGHT HAZARD OCCUPANCY.

PROVIDE NEW SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. PROVIDE ALL NEW BRANCH PIPING. PROVIDE NEW RECESSED CONCEALED SPRINKLER HEADS WITH WHITE COVERPLATES IN ROOMS WITH CEILINGS. COORDINATE HEADS AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. SPRINKLER PER NFPA 13, ORDINARY HAZARD GROUP 1 OCCUPANCY.

PROVIDE NEW SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. PROVIDE ALL NEW BRANCH PIPING. PROVIDE NEW RECESSED CONCEALED SPRINKLER HEADS WITH WHITE COVERPLATES IN ROOMS WITH CEILINGS. COORDINATE HEADS AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. SPRINKLER PER NFPA 13, ORDINARY HAZARD GROUP 2 OCCUPANCY.

CODED NOTES:

1. PROVIDE SHUT-OFF VALVE WITH TAMPER SWITCH TO SPRINKLER BRANCH FEEDING ELECTRIC ROOM.
2. EXTEND EXISTING ADJACENT SPRINKLER ZONE 2-8 TO COVER OUTLINED AREA. SPRINKLER ZONES SHALL BE MAINTAINED WITHIN SMOKE COMPARTMENTS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
3. PROVIDE SHUT-OFF VALVE WITH TAMPER SWITCH TO SPRINKLER BRANCH FEEDING ELEVATOR SHAFT. PROVIDE UPRIGHT SPRINKLER HEAD AT TOP OF ELEVATOR SHAFT. SPRINKLER SHALL BE TEMPERATURE RATED PER SPECIFICATIONS.



FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — BRIAN WIDOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0086 f

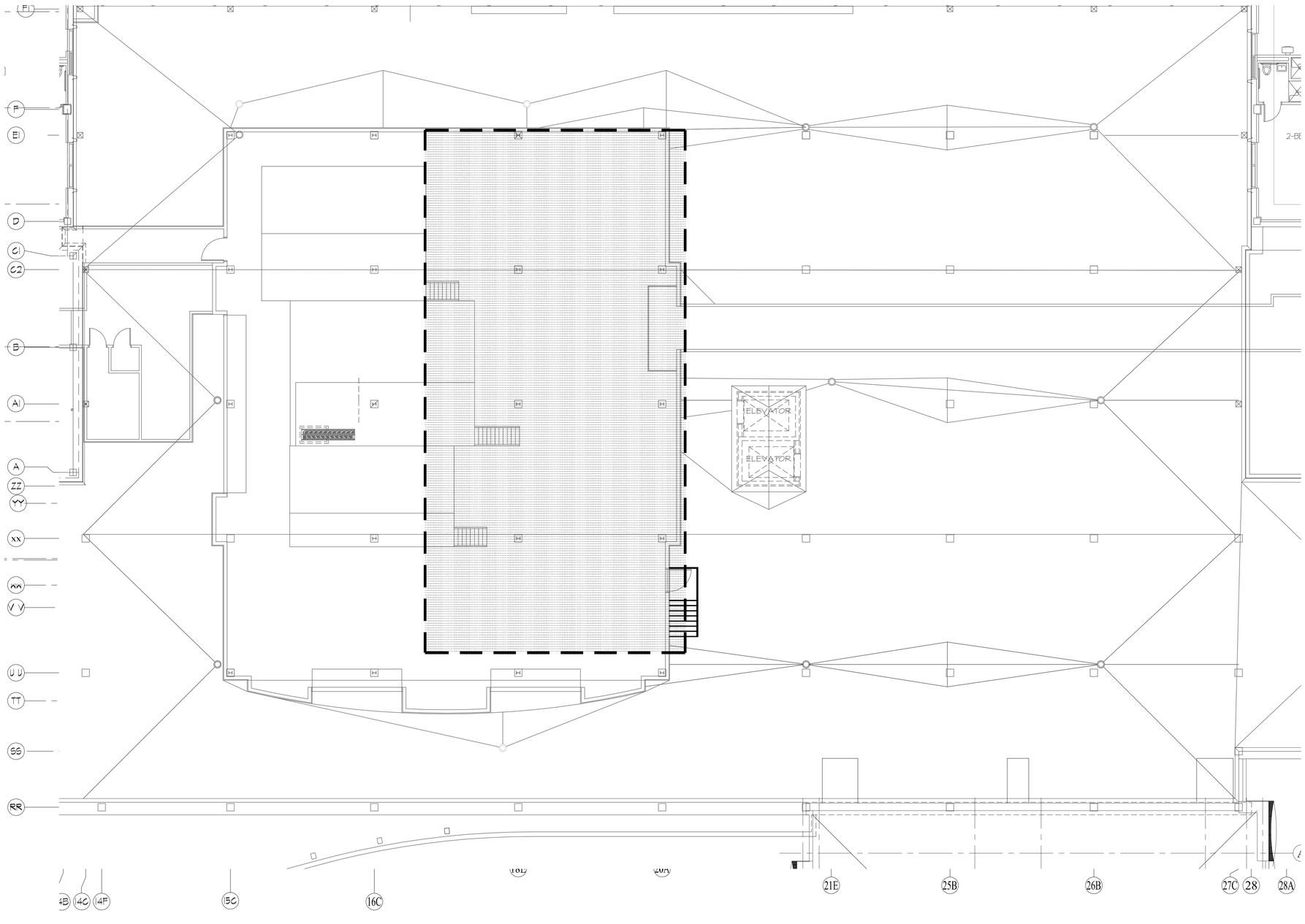
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX. (440) 546-9099

Drawing Title: PARTIAL SECOND FLOOR FIRE PROTECTION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-FP2-1
	Date: 03-16-12	Checked By: LDH	Drawn By: RPH

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



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 BRANCH PIPING TO ACCOMMODATE NEW DUCTWORK LAYOUT IN MECHANICAL ROOM AND INTERSTITIAL SPACE BELOW MECHANICAL ROOM. SEE HVAC PLANS FOR NEW DUCTWORK LAYOUT. PROVIDE UPRIGHT SPRINKLER HEADS. PROVIDE FULL COVERAGE ABOVE AND BELOW ALL DUCTWORK, EQUIPMENT, ETC. WHERE SPRINKLERS ARE LOCATED BELOW 8'-0" AFF OR ARE SUBJECT TO DAMAGE. PROVIDE PROTECTIVE CAGE AROUND HEADS. SPRINKLER PER NFPA 13, ORDINARY HAZARD GROUP 1 OCCUPANCY.

PARTIAL PENTHOUSE FIRE PROTECTION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO — BRIAN M. WIDOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9096
FAX. (440) 546-9890

Drawing Title: PENTHOUSE FIRE PROTECTION PLAN - PHASE 2

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

Project Number: 541-364

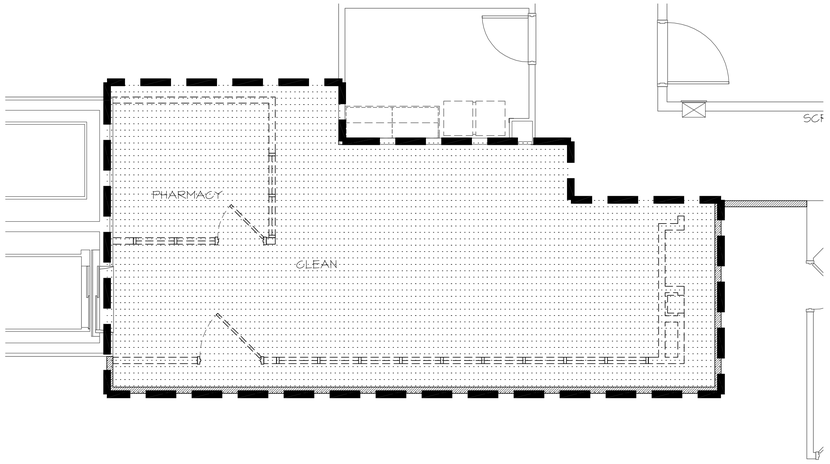
Building Number:

Drawing Number: 2-FP2-2

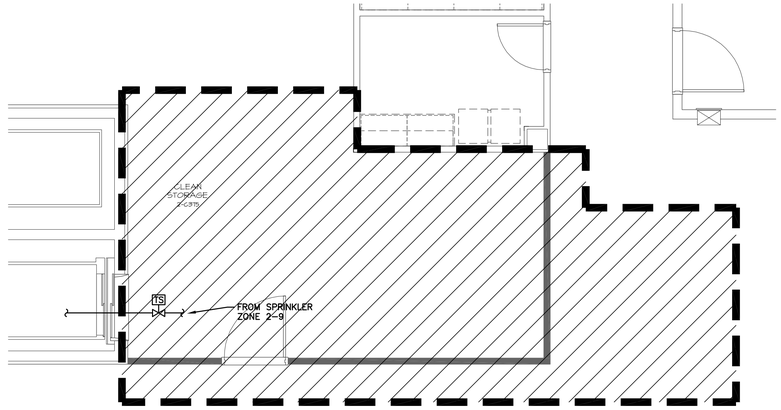
Office of Construction and Facilities Management

Department of Veterans Affairs

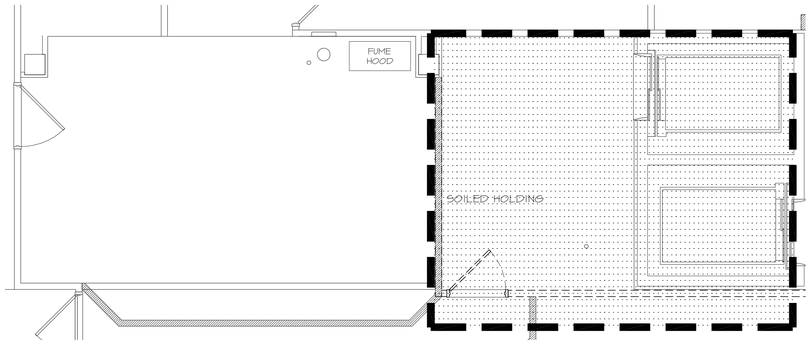
VA FORM 08-6231



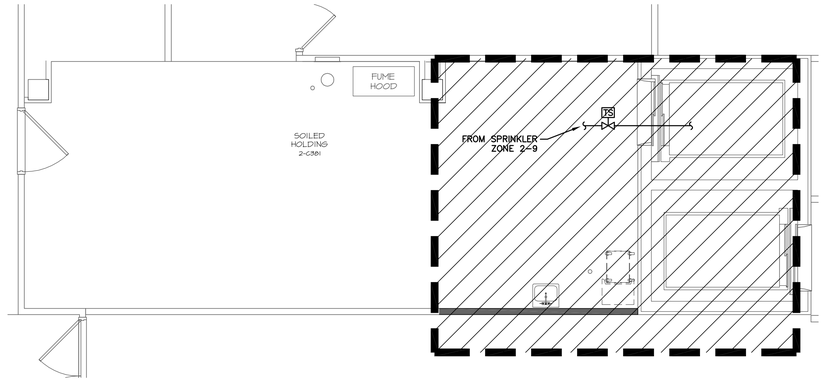
PHASE 2C FIRE PROTECTION DEMOLITION (5)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



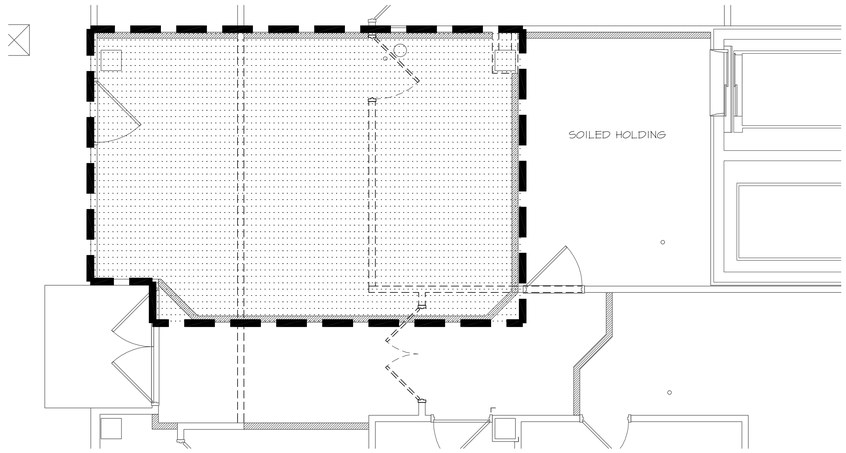
PHASE 2C FIRE PROTECTION (6)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



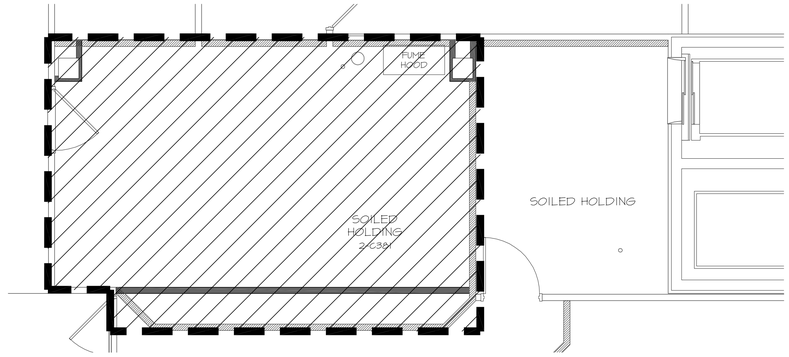
PHASE 2B FIRE PROTECTION DEMOLITION (3)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



PHASE 2B FIRE PROTECTION (4)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



PHASE 2A FIRE PROTECTION DEMOLITION (1)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



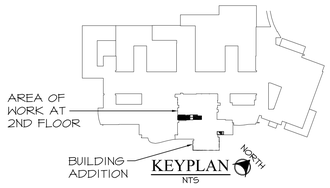
PHASE 2A FIRE PROTECTION (2)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'

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

EXISTING SPRINKLER MAIN PIPING, BRANCH PIPING AND SPRINKLER HEADS TO BE REMOVED. BRANCHES AND MAINS FED FROM ACTIVE AREAS SHALL BE REMOVED TO OUTSIDE OF SHADED AREA AND CAPPED OR REWORKED. AREAS OUTSIDE OF SHADED AREA SHALL REMAIN 100% SPRINKLERED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL PHASING INFORMATION.

PROVIDE NEW SPRINKLER MAIN PIPING IN OUTLINED AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. PROVIDE ALL NEW BRANCH PIPING. PROVIDE NEW RECESSED CONCEALED SPRINKLER HEADS WITH WHITE COVERPLATES IN ROOMS WITH CEILINGS. COORDINATE HEADS AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.



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FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8970 p (440) 891-0086 f

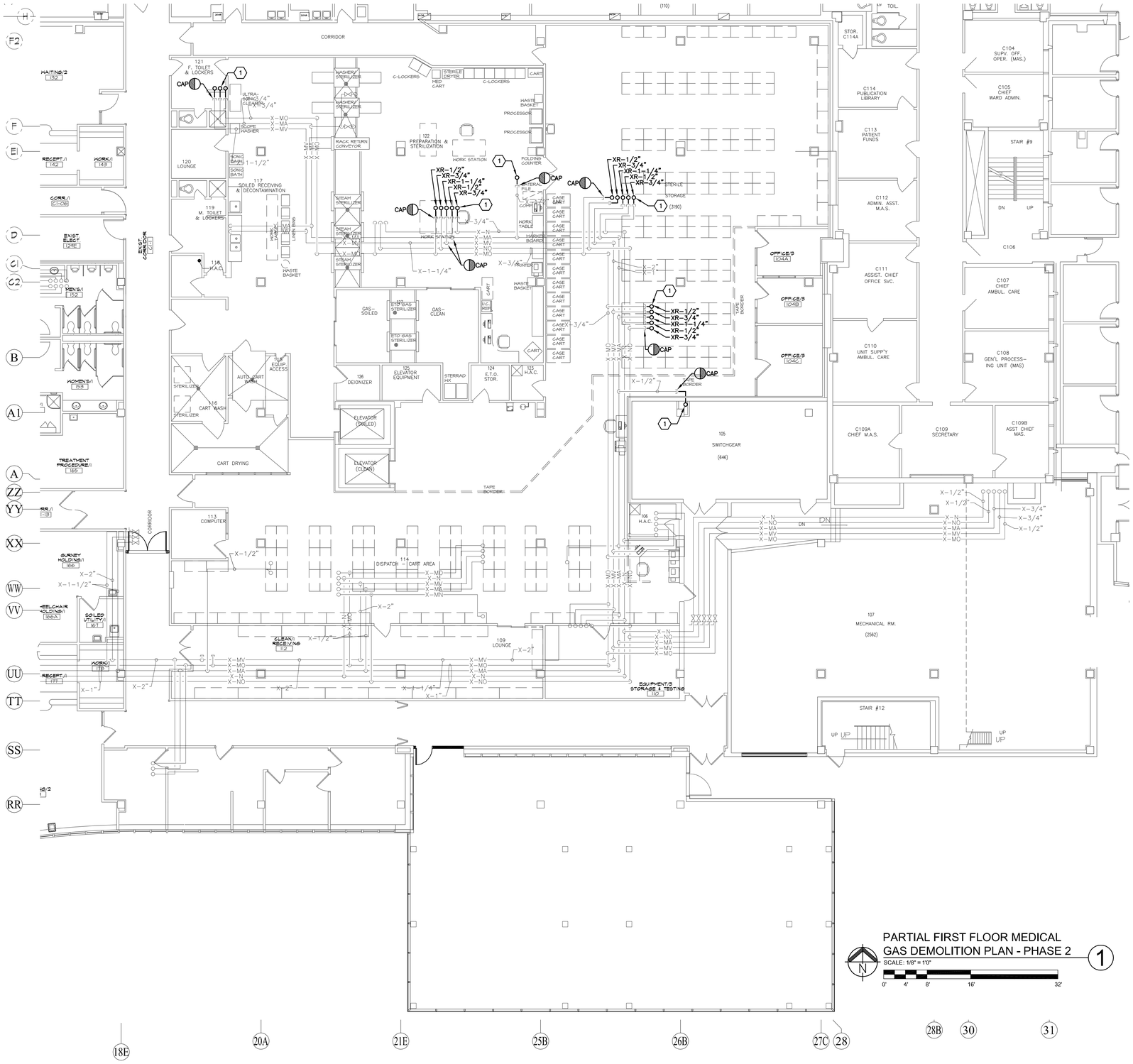
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX. (440) 546-9899

Drawing Title: FIRE PROTECTION PHASING PLANS - SUB-PHASES 2A, 2B, 2C	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-FP3-1
	Date: 03-16-12	Checked By: LDH	Drawn By: MNH

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL FIRST FLOOR MEDICAL GAS DEMOLITION PLAN - PHASE 2 (1)

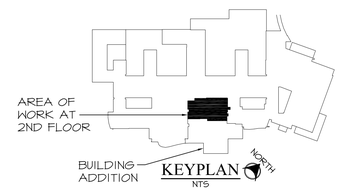
SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

18E 20A 21E 25B 26B 27C 28 28B 30 31

CODED NOTES:

(1) REMOVE EXISTING MEDICAL GAS PIPING SERVING SECOND FLOOR BACK TO ABOVE FIRST FLOOR CEILINGS AND CAP. INACTIVE PIPING SHALL BE ABANDONED ABOVE CEILING. REFER TO MECHANICAL PLANS FOR SCHEDULING/PHASING OF WORK PERFORMED ABOVE FIRST FLOOR SPD DEPARTMENT CEILING.



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STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9596
FAX. (440) 546-0899

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

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Department of Veterans Affairs

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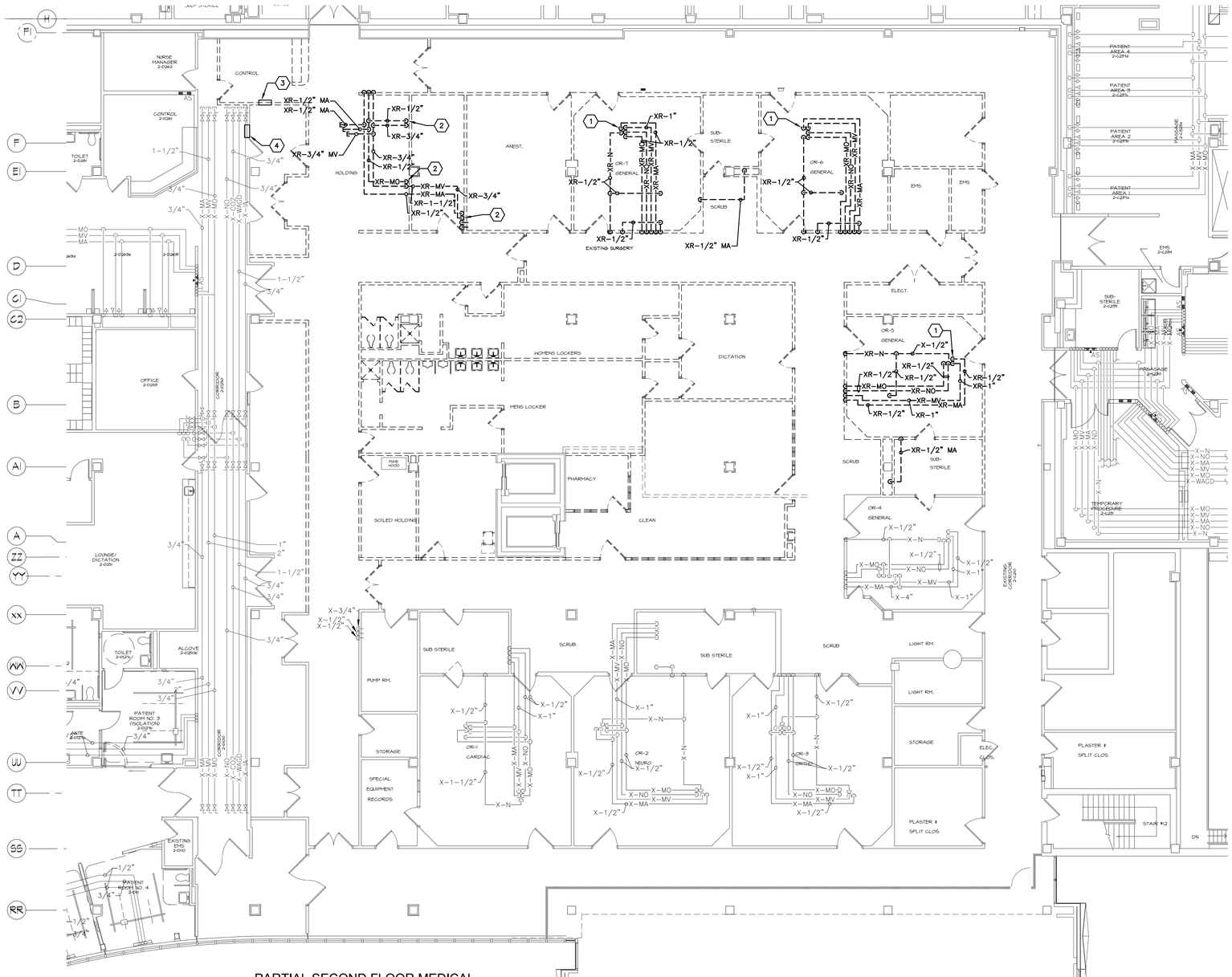


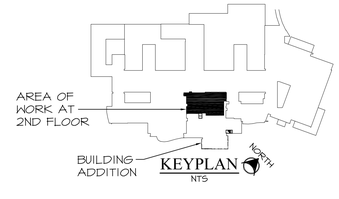
PARTIAL SECOND FLOOR MEDICAL GAS DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

CODED NOTES:

1. REMOVE EXISTING MEDICAL GAS PIPING FROM SURGICAL BOOM. REMOVE ALL ASSOCIATED PIPING BACK TO FIRST FLOOR AND CAP. REFER TO FIRST FLOOR DEMOLITION PLAN.
2. REMOVE EXISTING MEDICAL GAS OUTLETS AND PIPING BACK TO FIRST FLOOR AND CAP. REFER TO FIRST FLOOR DEMOLITION PLAN.
3. EXISTING MEDICAL GAS LINE PRESSURE ALARM PANEL TO BE REMOVED FOLLOWING INSTALLATION, CERTIFICATION AND ACTIVATION OF TEMPORARY REPLACEMENT LPA.
4. TEMPORARY LPA. LPA PANEL SHALL INCLUDE GAUGES AND ALARMS FOR MA, MV, MO, N, NO SERVING PHASE 3 AREAS. PROVIDE TUBING, SENSORS, WIRING AS REQUIRED TO ACTIVATE TEMPORARY LPA. TEMPORARY LPA SHALL SERVE PHASE 3 AREA PRIOR TO PHASE 3 DEMOLITION. CUT AND PATCH WALL AS REQUIRED FOR INSTALLATION. SCHEDULE ANY AND ALL SHUT-DOWNS DURING OFF-HOURS. COORDINATE WITH VA COTR.



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FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-0899

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

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Department of Veterans Affairs

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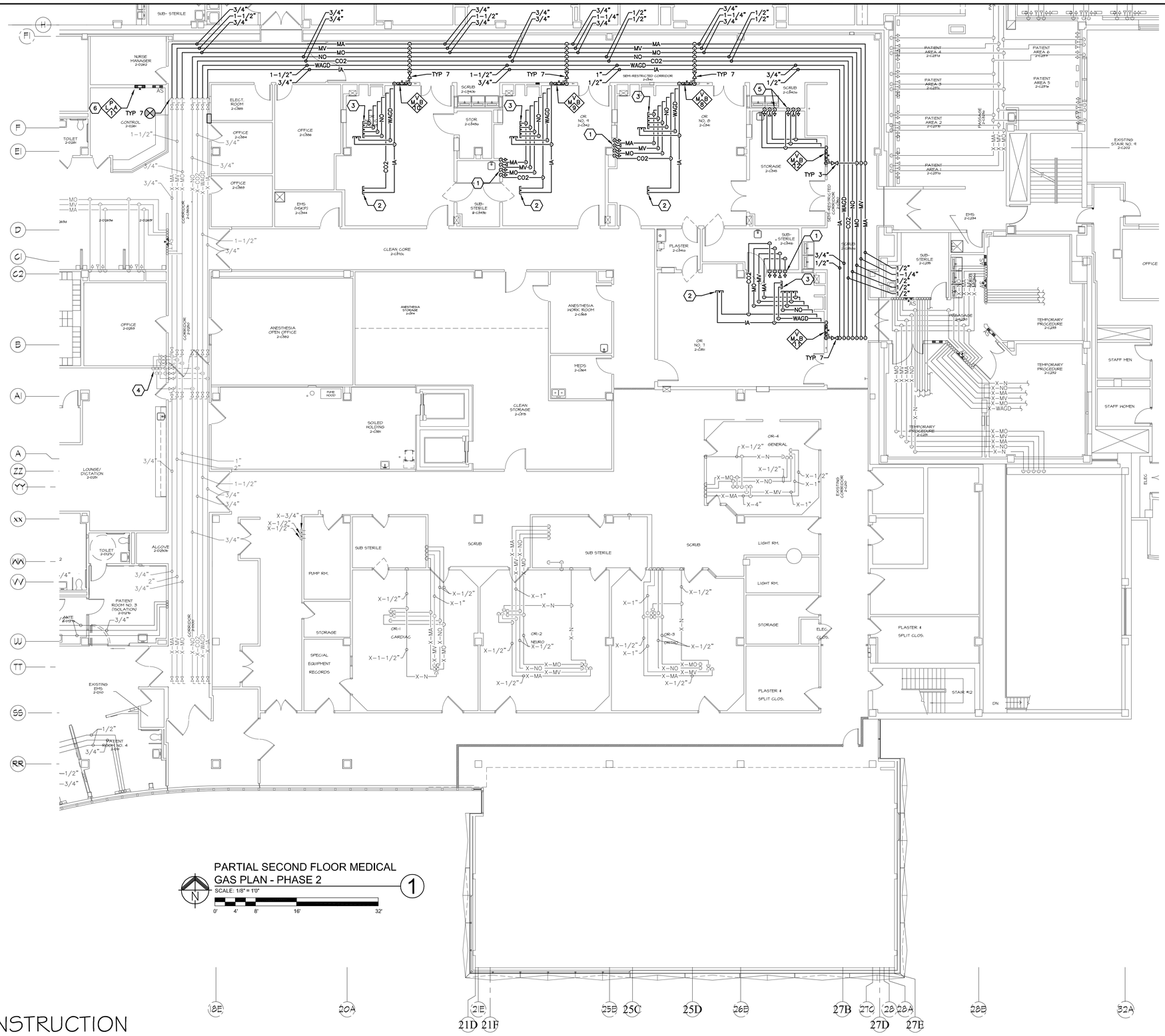


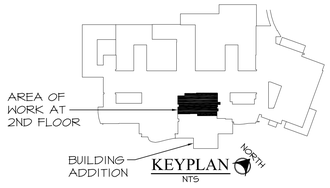
PARTIAL SECOND FLOOR MEDICAL GAS PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

CODED NOTES:

1. PROVIDE (1) CO2, (2) MA, (2) MO AND (3) MV DISS STYLE OUTLETS. LOCATE OUTLETS AT 18" AFF.
2. PROVIDE 1/2" CO2 AND 1/2" IA LINES CAPPED ABOVE CEILING FOR FUTURE CONNECTION TO EQUIPMENT BOOM. PROVIDE 1/2" IA BRANCH LINE WITH PRESSURE REGULATOR CAPPED ABOVE CEILING FOR FUTURE CONNECTION TO PNEUMATIC BRAKING SYSTEM ON BOOM. REFER TO DETAIL.
3. PROVIDE 1/2" CO2, 1/2" MO, 1-1/4" MV, 1/2" MA, 1/2" IA, 3/4" WAGD AND 1/2" NO LINES CAPPED ABOVE CEILING FOR FUTURE CONNECTION TO ANESTHESIA BOOM. PROVIDE 1/2" IA BRANCH LINE WITH PRESSURE REGULATOR CAPPED ABOVE CEILING FOR FUTURE CONNECTION TO PNEUMATIC BRAKING SYSTEM ON BOOM. REFER TO DETAIL.
4. PROVIDE NEW LINE PRESSURE SENSORS AT OUTLET FROM SHAFT FOR CO2, MO, MV, MA, IA, WAGD, AND NO MEDICAL GASES. WIRE ALARMS TO ALARM PANEL LPA-1.
5. PROVIDE (1) MA, (1) MO AND (1) MV MEDICAL GAS OUTLETS/INLETS AT KNEE SPACE UNDER COUNTERTOP.
6. CUT AND PATCH WALL FOR INSTALLATION OF NEW LPA.



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66625
REGISTERED PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8920 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX. (440) 546-9899

Drawing Title: PARTIAL SECOND FLOOR MEDICAL GAS PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-MG2-1
	Date: 03-16-12	Checked By: LDH	Drawn By: RPH

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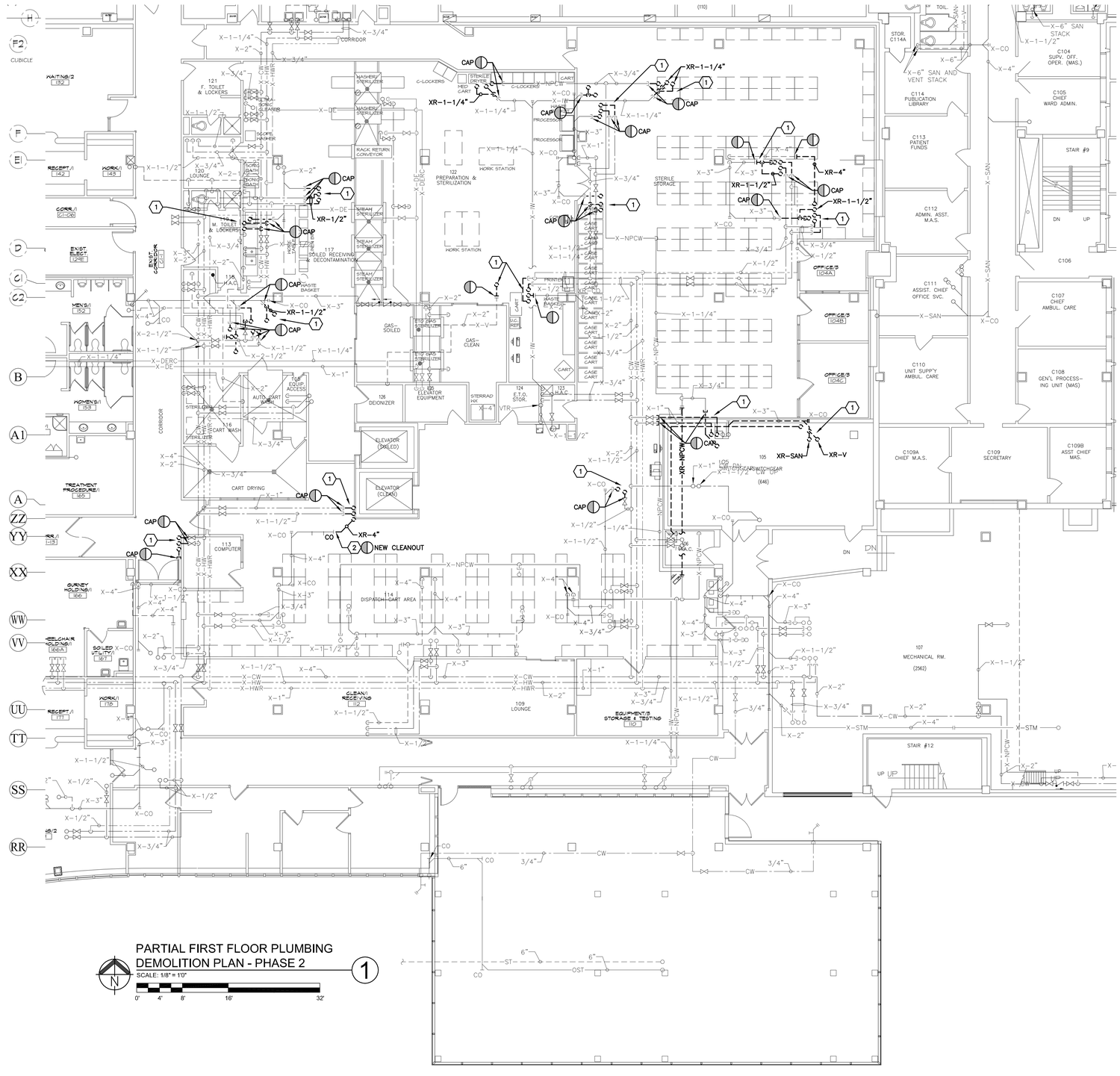


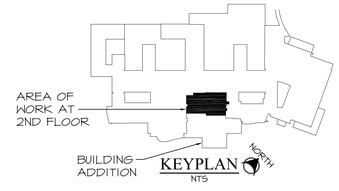
PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

DEMOLITION CODED NOTES:

1. REMOVE EXISTING PLUMBING AS SHOWN. INACTIVE PIPING SHALL BE CAPPED AND ABANDONED ABOVE THE CEILING. REFER TO NEW PLANS FOR RECONNECTED PIPING. REFER TO ARCHITECTURAL PLANS FOR SCHEDULING/PHASING OF WORK ABOVE SPD DEPARTMENT CEILING
2. PROVIDE NEW CLEANOUT AT POINT OF DEMOLITION



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CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0950 p (440) 891-0956 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-0696
FAX: (440) 546-0699

Drawing Title: PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-P1-1
	Date: 03-16-12	Checked By: LDH	Drawn By: MNH

Office of Construction and Facilities Management

Department of Veterans Affairs

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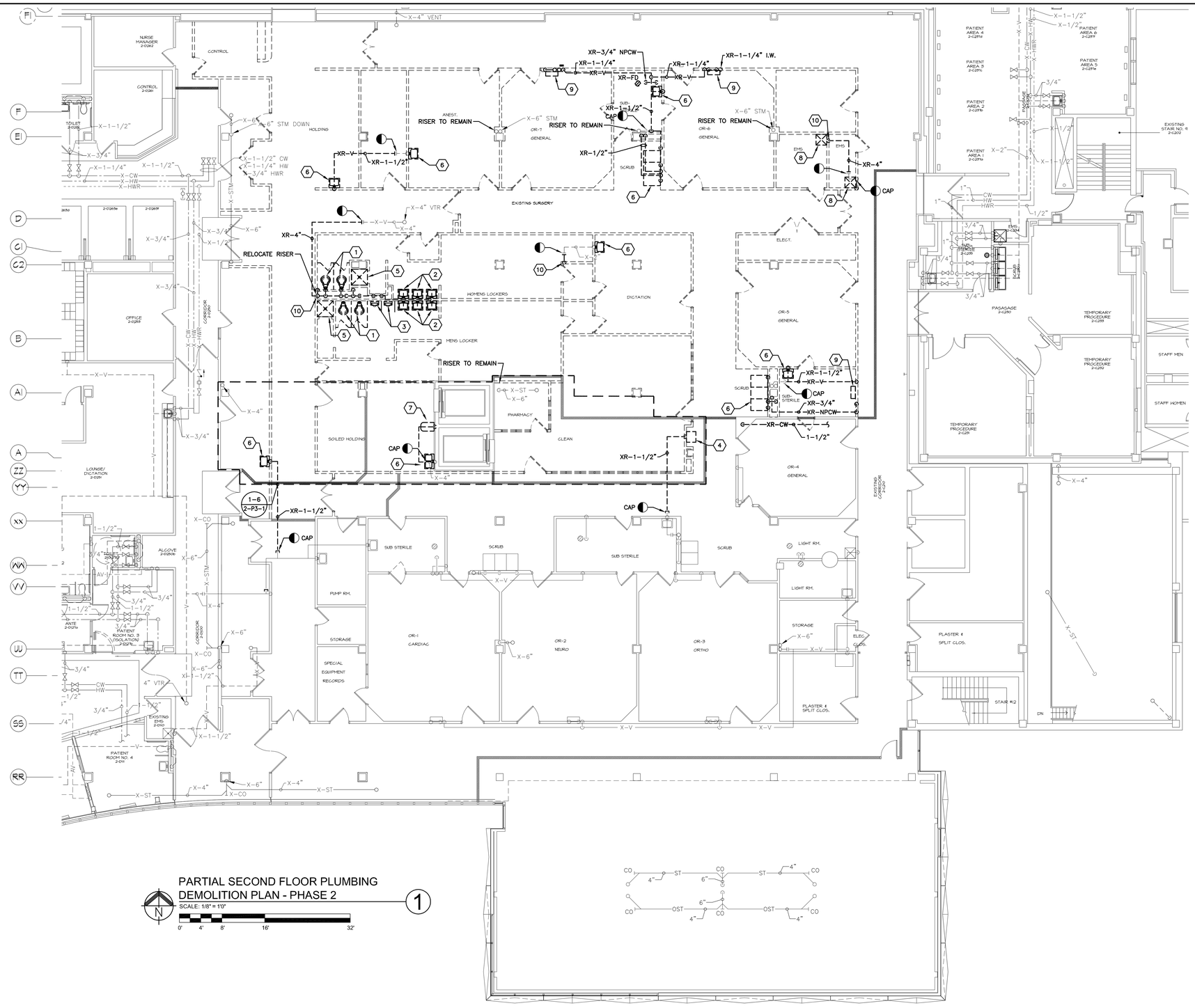


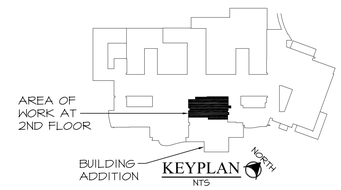
PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

CODED NOTES:

1. EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
2. EXISTING LAVATORY AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER AND HOT WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
3. EXISTING URINAL AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
4. EXISTING WATER COOLER AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
5. EXISTING SHOWER AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER AND HOT WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
6. EXISTING SINK AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER AND HOT WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
7. REMOVE EXISTING FIXTURES AND EQUIPMENT FEEDING NEPTUNE SYSTEM COMPLETE. REMOVE WALL DRAIN BOX COMPLETE AND PATCH WALL TO MATCH SURROUNDING SURFACES. REMOVE TWO (2) REDUCED PRESSURE BACKFLOW PREVENTORS MOUNTED ON WALL. REMOVE TWO (2) STAND PIPE DRAINS MOUNTED ON WALL COMPLETE AND PATCH WALL TO MATCH SURROUNDING SURFACES.
8. EXISTING MOP BASIN AND ALL ASSOCIATED PIPING TO BE REMOVED. REMOVE EXISTING SANITARY AND VENT PIPING BACK TO ACTIVE MAINS AND CAP. REMOVE EXISTING COLD WATER AND HOT WATER BACK TO ACTIVE MAIN AND CAP FOR FUTURE EXTENSION.
9. EXISTING WATER CONNECTION BOX TO BE REMOVED. REMOVE ALL ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO ACTIVE MAINS AND CAP.
10. REMOVE EXISTING VENT RISER BACK TO ABOVE SECOND FLOOR CEILING AND FIRST FLOOR CEILING FOR RELOCATION UNDER THIS PROJECT. SEE NEW PLANS FOR NEW RISER LOCATION.



18E 20A 21E 21D 21F 25B 25C 25D 26B 27B 27C 28 28A 27D 27E 28B 32A

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STATE OF OHIO — BRIAN M. WIDOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-0899

Drawing Title: PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - PHASE 2

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

Project Number: 541-364

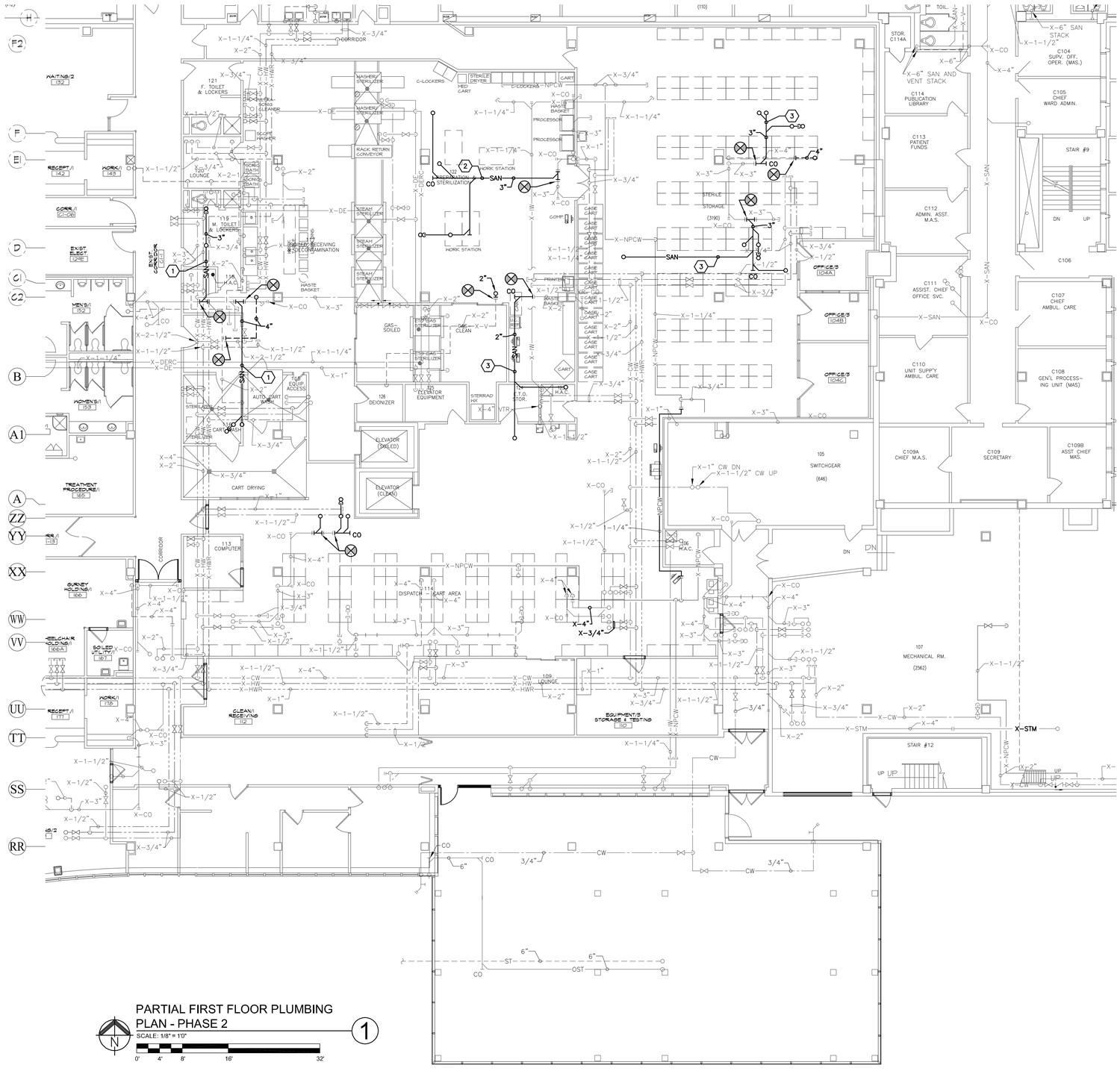
Building Number:

Drawing Number: 2-P1-2

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL FIRST FLOOR PLUMBING PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

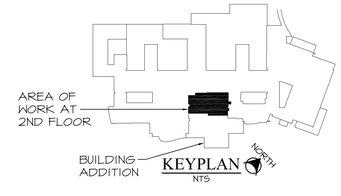
0' 4' 8' 16' 32'

GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR SCHEDULING/PHASING OR WORK PREFORMED ABOVE FIRST FLOOR SPD DEPARTMENT CEILINGS.

CODED NOTES:

1. SEE SANITARY ISOMETRIC "A".
2. SEE SANITARY ISOMETRIC "B".
3. SEE SANITARY ISOMETRIC "C".



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MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 893-0970 p (440) 893-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX. (440) 546-0899

Drawing Title	PARTIAL FIRST FLOOR PLUMBING PLAN - PHASE 2
Approved: Project Director	
Project Title	SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
Checked By	LDH
Drawn By	MNH
Project Number	541-364
Building Number	
Drawing Number	2-P2-1

Office of Construction and Facilities Management

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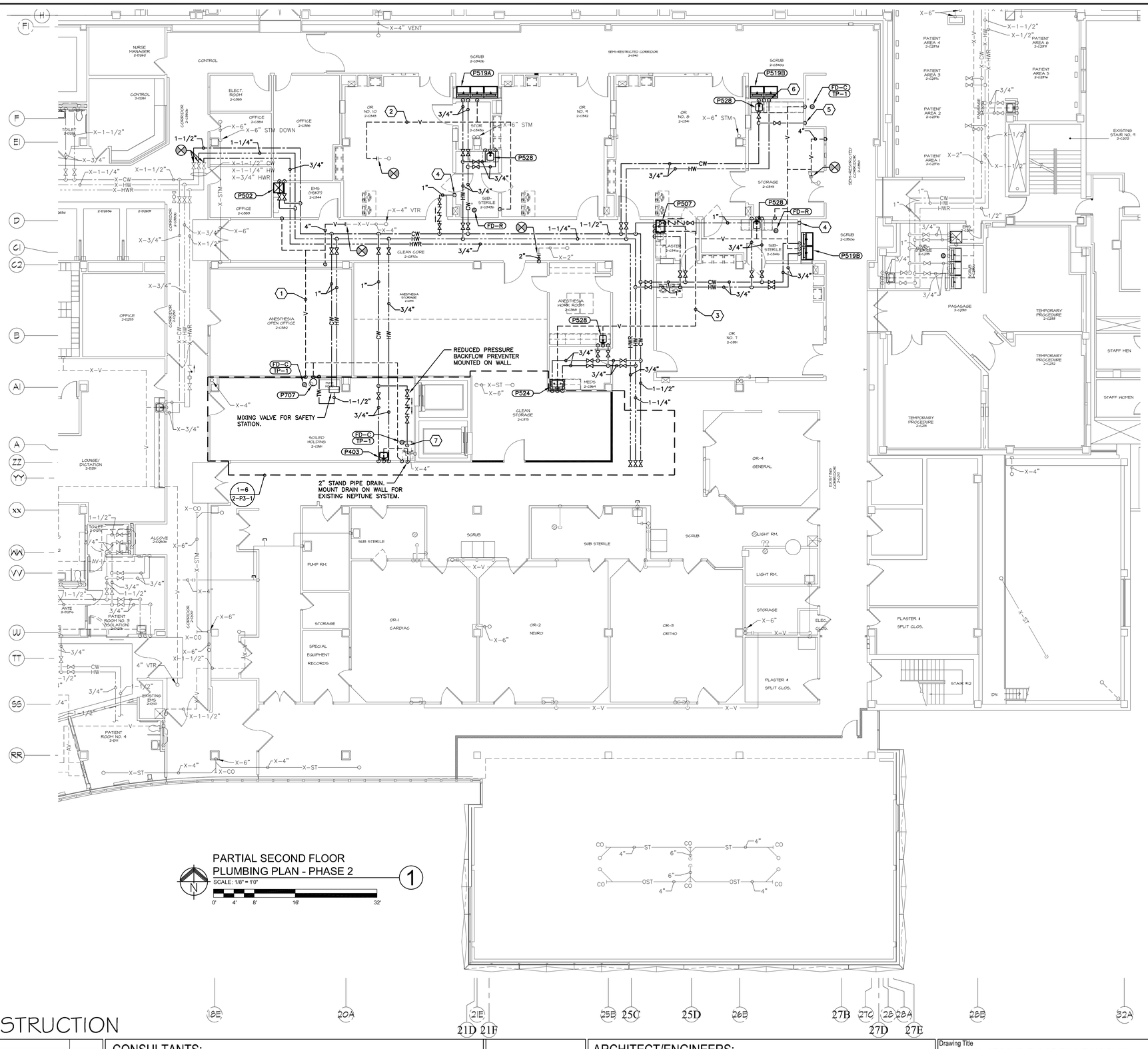


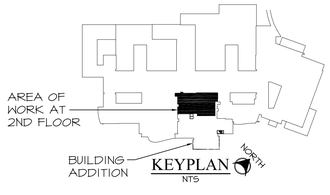
PARTIAL SECOND FLOOR PLUMBING PLAN - PHASE 2

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

CODED NOTES:

1. SEE SANITARY ISOMETRIC "A".
2. SEE SANITARY ISOMETRIC "B".
3. SEE SANITARY ISOMETRIC "C".
4. EXTEND 1" CW DOWN IN WALL TO STERILIZER. COORDINATE EXACT TIE-IN LOCATION WITH EQUIPMENT VENDOR. PC SHALL EXTEND WATER PIPING AND MAKE ALL FINAL CONNECTIONS.
5. 3/4" CW DOWN TO TEMPORARY ICEMAKER, PIPE DRAIN TO FD-C. PIPING AND FLOOR DRAIN SHALL BE REMOVED UPON COMPLETION OF PHASE 3.
6. 3/4" CW AND 3/4" HW DOWN IN WALL TO SINKS. EXTEND 3/4" CW AND 3/4" HW TO SINK P519B AND EXTEND 3/4" CW AND 3/4" HW TO SINK P528.
7. WATER CONNECTION FOR EXISTING NEPTUNE SYSTEM. PC SHALL EXTEND AND MAKE ALL FINAL CONNECTIONS. COORDINATE ALL PROVISIONS WITH MANUFACTURER.



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MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8930 p (440) 891-0086 f

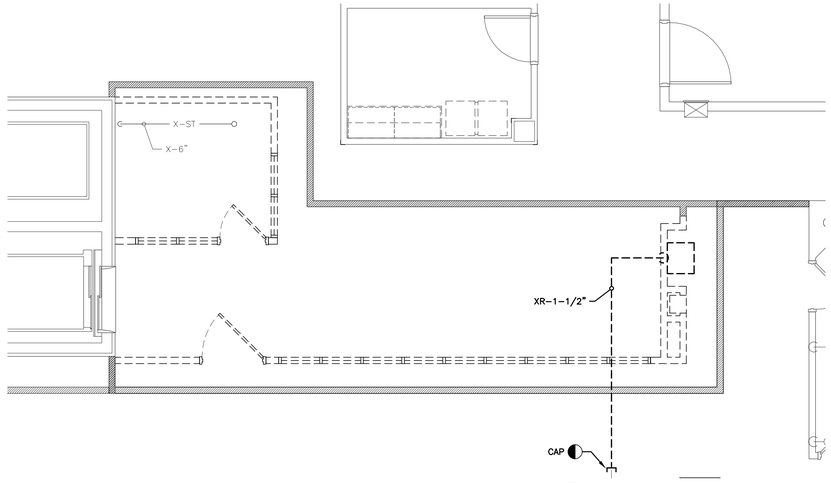
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9699

Drawing Title: PARTIAL SECOND FLOOR PLUMBING PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-P2-2
	Date: 03-16-12	Checked By: LDH	Drawn By: MNH

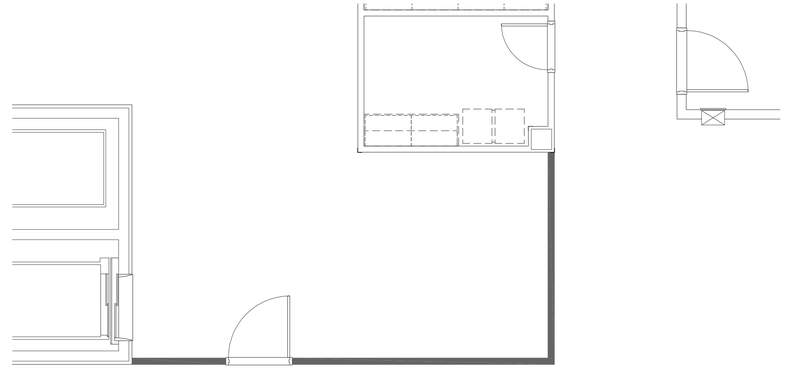
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PHASE 2C PLUMBING DEMOLITION (5)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



PHASE 2C PLUMBING (6)
SCALE: 1/8" = 1'0"
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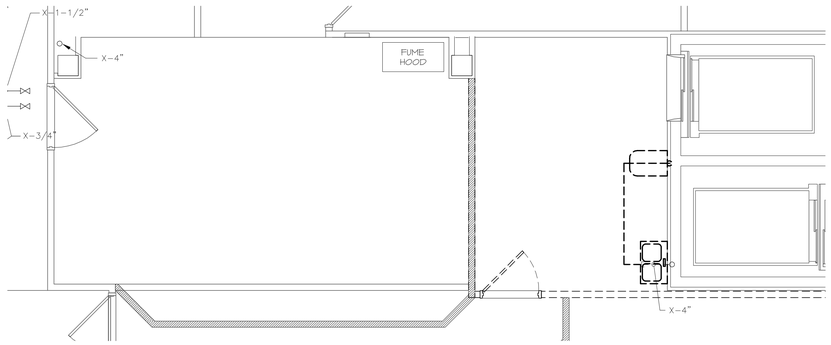
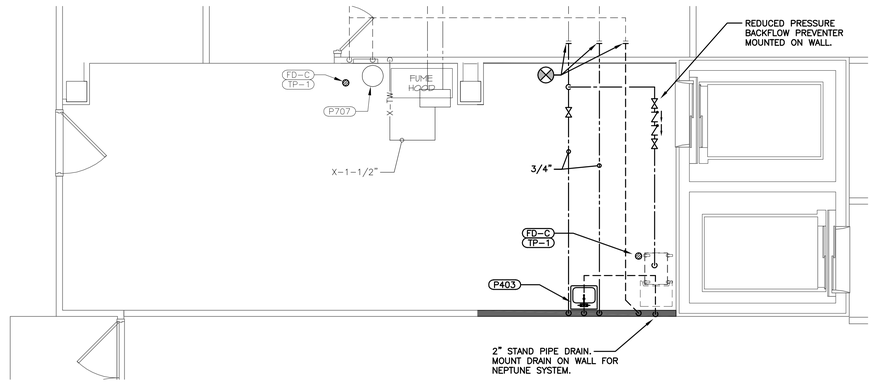
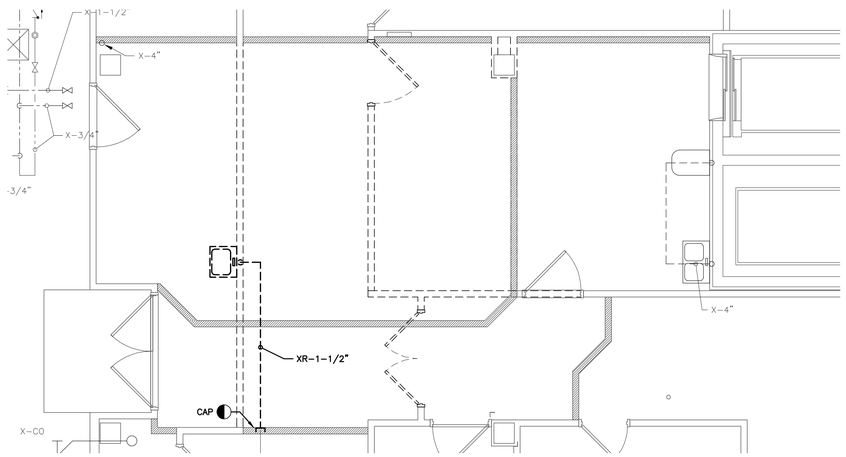


PHASE 2B PLUMBING DEMOLITION (3)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



PHASE 2B PLUMBING (4)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



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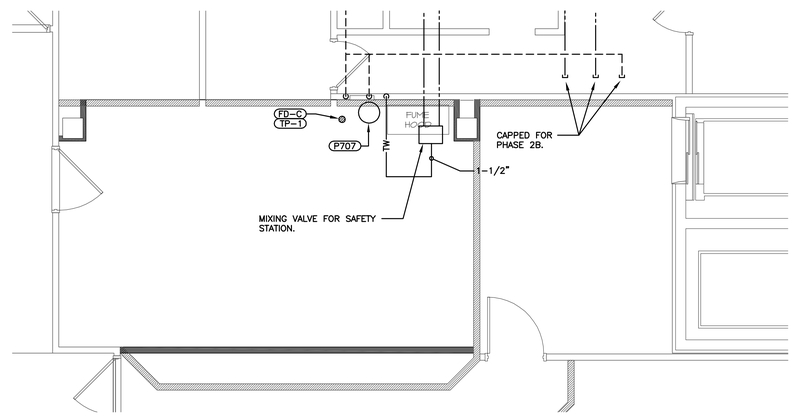
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



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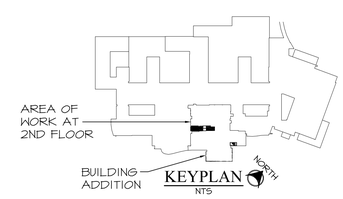

FOR CONSTRUCTION

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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-9699

Drawing Title: PLUMBING PHASING PLANS - SUB-PHASES 2A, 2B, 2C	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	Drawing Number: 2-P3-1
		Drawn By: MNH	

Office of Construction and Facilities Management

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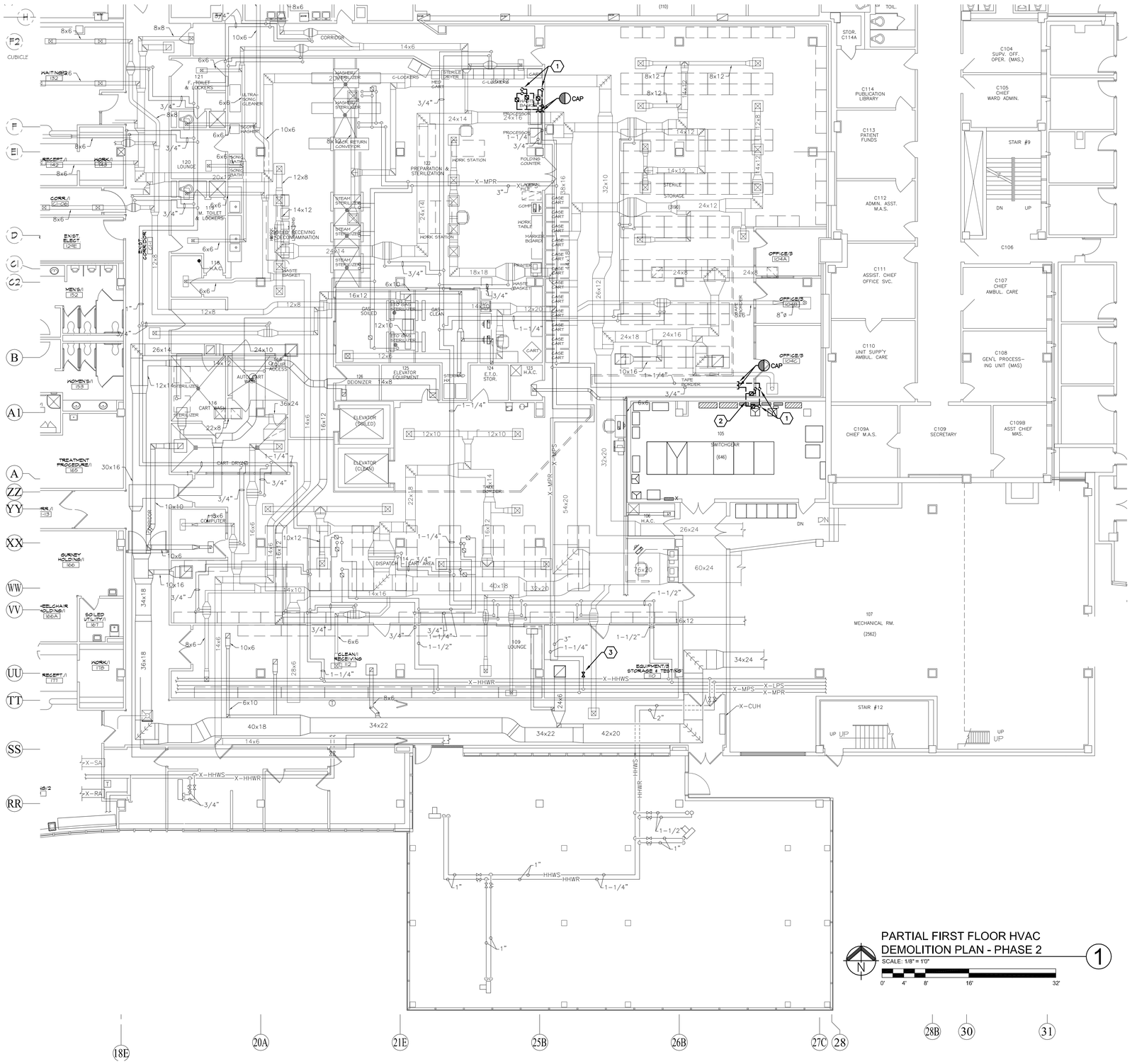


PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

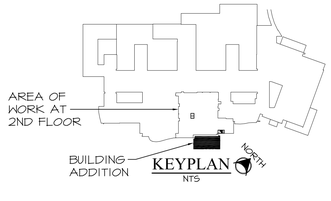
0' 4' 8' 16' 32'

GENERAL NOTES:

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

CODED NOTES:

1. EXISTING MPS AND MPR SERVING SUB-STERILE ROOM ABOVE TO BE REMOVED. FIELD VERIFY EXACT LOCATION OF PIPE RISERS. PATCH FLOOR AS REQUIRED.
2. REMOVE METAL ENCLOSURES THAT ARE SERVING REMOVED STEAM AND CONDENSATE PIPING WITHIN THE ELECTRICAL SWITCHGEAR ROOM. GUTTER SERVING OTHER SYSTEMS SHALL REMAIN. PATCH WALL AS REQUIRED.
3. PROVIDE NEW SHUT-OFF VALVE FOR MPS SERVING SPD DEPARTMENT STEAM SERVICE. COORDINATE SYSTEM SHUTDOWN FOR INSTALLATION.



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CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8950 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9996
FAX: (440) 546-9999

Drawing Title: PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H1-1
	Date: 03-16-12	Checked By: LDH / Drawn By: LDH	

Office of Construction and Facilities Management

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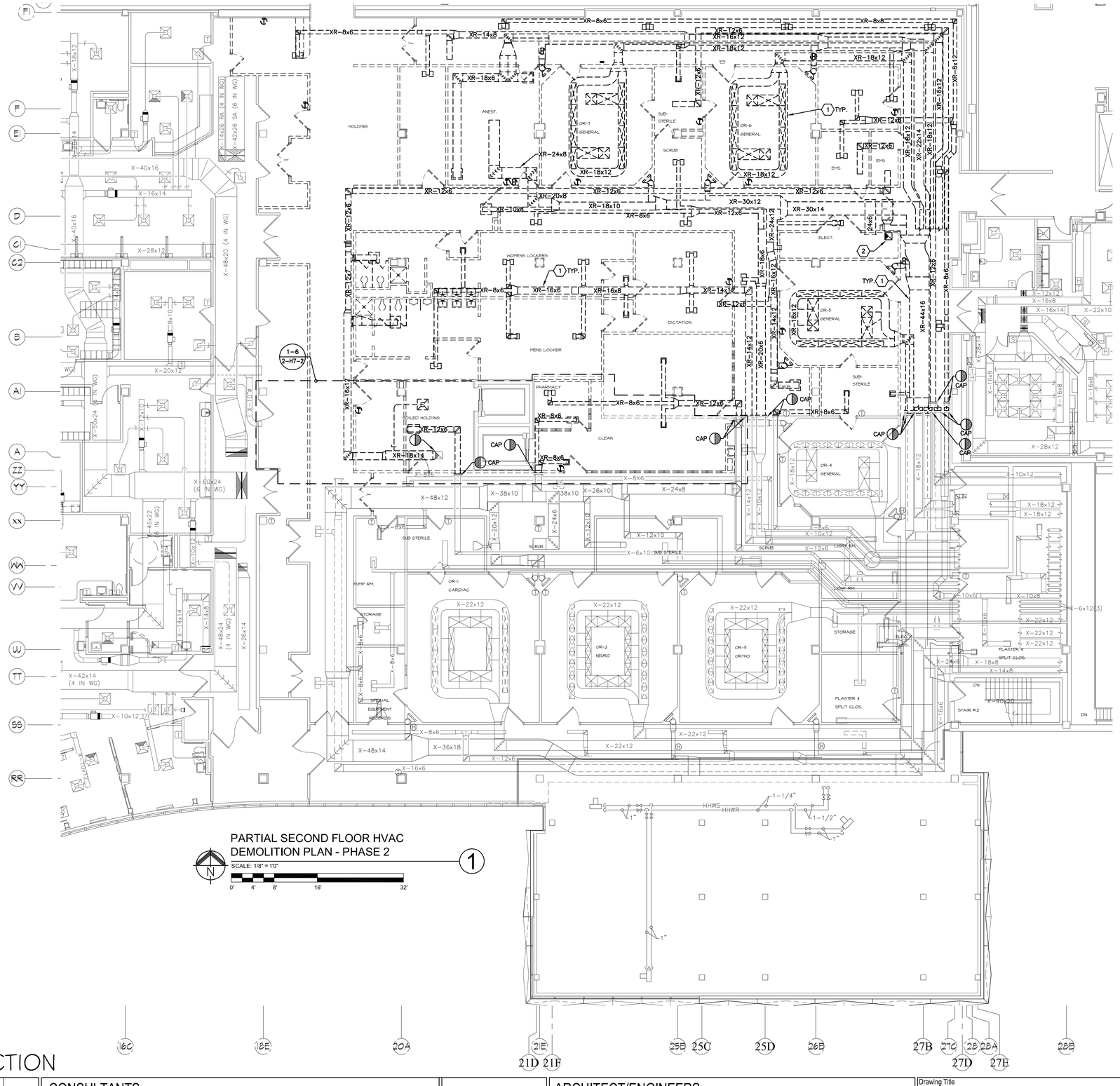


PARTIAL SECOND FLOOR HVAC DEMOLITION PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

GENERAL HVAC NOTES:

A. CONTRACTOR SHALL PERFORM FULL AIR AND WATER SURVEY ON EXISTING SURGERY HVAC UNIT, SF-2 AND ASSOCIATED EXHAUST FAN (EF-2) PRIOR TO PHASE 2 DEMOLITION.

B. SURVEY SHALL INCLUDE ZONE AIRFLOWS FOR EACH TEMPERATURE CONTROL ZONE (SUPPLY AND EXHAUST). AIRFLOW MEASUREMENTS CAN BE TAKEN FROM MECHANICAL ROOM 107.

C. SURVEY DATA SHALL BE SUBMITTED TO A/E AND VA COTR FOR REVIEW AND RECORD.

D. SURVEY RESULTS SHALL BE USED IN DETERMINING RE-BALANCING OF SF-2 UPON REMOVAL OF PHASE 2 ZONES.

E. TAB CONTRACTOR SHALL RE-BALANCE AIR AND WATER SYSTEMS FOR SF-2 AND EF-2. SYSTEM RE-BALANCE SHALL BE SCHEDULED DURING OFF-HOURS. COORDINATE CLOSELY WITH VA COTR.

GENERAL DEMOLITION NOTES:

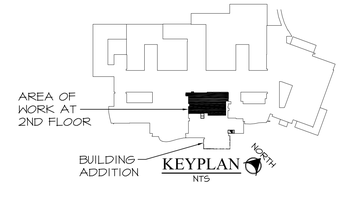
A. EXISTING SYSTEMS SHOWN ON PLAN ARE BASED ON EXISTING DRAWINGS AND FIELD VERIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL PLUMBING AND HVAC EQUIPMENT, PIPING, AND DUCTWORK WHICH SERVES THE DESIGNATED AREA WHETHER FULLY ILLUSTRATED OR NOT.

B. CONTRACTOR SHALL EXERCISE CAUTION IF SUSPECT ITEMS ARE IDENTIFIED. IN THESE CASES, CONTRACTOR SHALL MARK ITEMS AND REVIEW WITH COTR AND A/E.

C. CONTRACTOR SHALL PROVIDE TEMPORARY EXHAUST SYSTEM(S) FOR MAINTAINING NEGATIVE AIR WITHIN CONSTRUCTION SPACE. EXHAUST SHALL BE VENTED TO OUTDOORS. REFER TO PLANS FOR SUGGESTED LOCATION FOR VENTING EXHAUST OUTDOORS. CONTRACTOR SHALL OBTAIN APPROVAL FROM VA COTR.

CODED NOTES:

1. EXISTING HVAC DUCTWORK, GRILLES, DIFFUSERS, THERMOSTATS, CONTROLS AND ASSOCIATED WIRING, TUBING, ETC. TO BE REMOVED COMPLETELY.
2. SUGGESTED LOCATION OF ROOF OPENING FOR TEMPORARY CONSTRUCTION EXHAUST TO OUTDOORS. APPROXIMATE LOCATION INDICATED IS ROOF CUT-OUT FOR NEW EF-2.



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Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

CONSULTANTS:

STATE OF OHIO — BRIAN M. WOJNOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0707 p (440) 891-0686 f

FREDRICK, FREDRICK & HILLER ENGINEERS, INC
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-0696
FAX: (440) 546-0699

Drawing Title	PARTIAL SECOND FLOOR HVAC DEMOLITION PLAN - PHASE 2
Approved: Project Director	
Project Title	SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
Checked By	LDH
Drawn By	LDH
Project Number	541-364
Building Number	
Drawing Number	2-H1-2

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Department of Veterans Affairs

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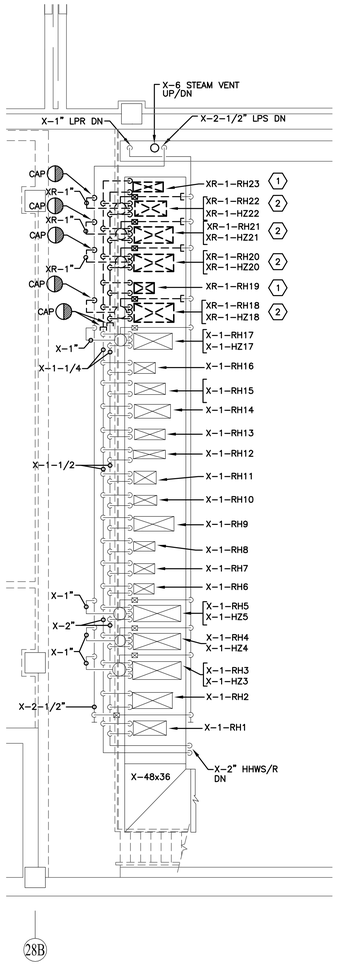
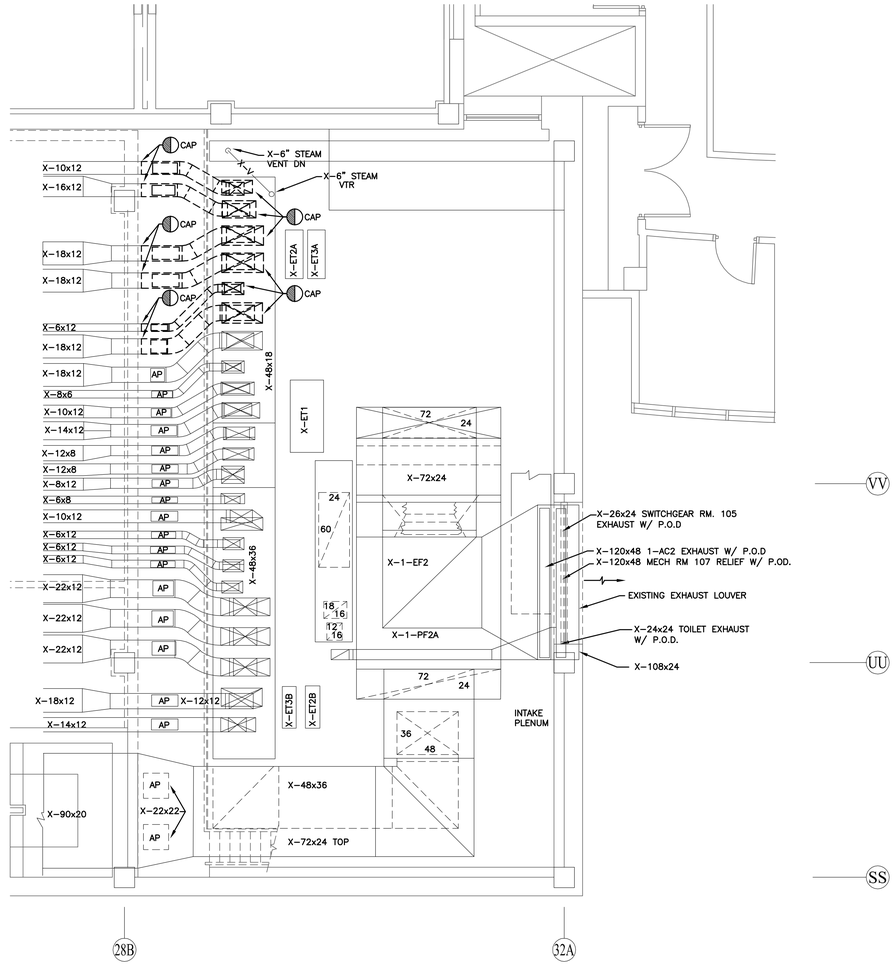


REHEAT COIL AND ZONE HUMIDIFIER DEMOLITION PLAN - UPPER LEVEL (1)

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'



EXISTING MECHANICAL ROOM DEMOLITION PLAN- UPPER LEVEL (2)

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'

GENERAL NOTES:

A. CONTRACTOR SHALL PERFORM FULL AIR AND WATER SURVEY ON EXISTING SURGERY HVAC UNIT, SF-2 AND ASSOCIATED EXHAUST FAN (EF-2) PRIOR TO PHASE 2 DEMOLITION.

B. SURVEY SHALL INCLUDE ZONE AIRFLOWS FOR EACH TEMPERATURE CONTROL ZONE (SUPPLY AND EXHAUST). AIRFLOW MEASUREMENTS CAN BE TAKEN FROM MECHANICAL ROOM 107.

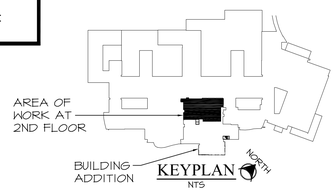
C. SURVEY DATA SHALL BE SUBMITTED TO A/E AND VA COTR FOR REVIEW AND RECORD.

D. SURVEY RESULTS SHALL BE USED IN DETERMINING RE-BALANCING OF SF-2 UPON REMOVAL OF PHASE 2 ZONES.

E. TAB CONTRACTOR SHALL RE-BALANCE AIR AND WATER SYSTEMS FOR SF-2 AND EF-2. SYSTEM RE-BALANCE SHALL BE SCHEDULED DURING OFF-HOURS. COORDINATE CLOSELY WITH VA COTR.

CODED NOTES:

1. EXISTING REHEAT COIL TO BE REMOVED. REMOVE ASSOCIATED DUCTWORK AND PIPING AS INDICATED. CAP AT ACTIVE MAINS. COORDINATE SHUTDOWNS WITH VA COTR.
2. EXISTING REHEAT COIL AND DUCT-MOUNTED HUMIDIFIER TO BE REMOVED. REMOVE ASSOCIATED DUCTWORK AND PIPING AS INDICATED. CAP AT ACTIVE MAINS. COORDINATE SHUTDOWNS WITH VA COTR.



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Revisions:	Date

CONSULTANTS:

STATE OF OHIO — BRIAN D. WIDOWSKI 66625 — REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX: (440) 546-9699

Drawing Title: ENLARGED MECHANICAL ROOM 107 DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H2-1
	Date: 03-16-12	Checked By: LDH	Drawn By: LDH

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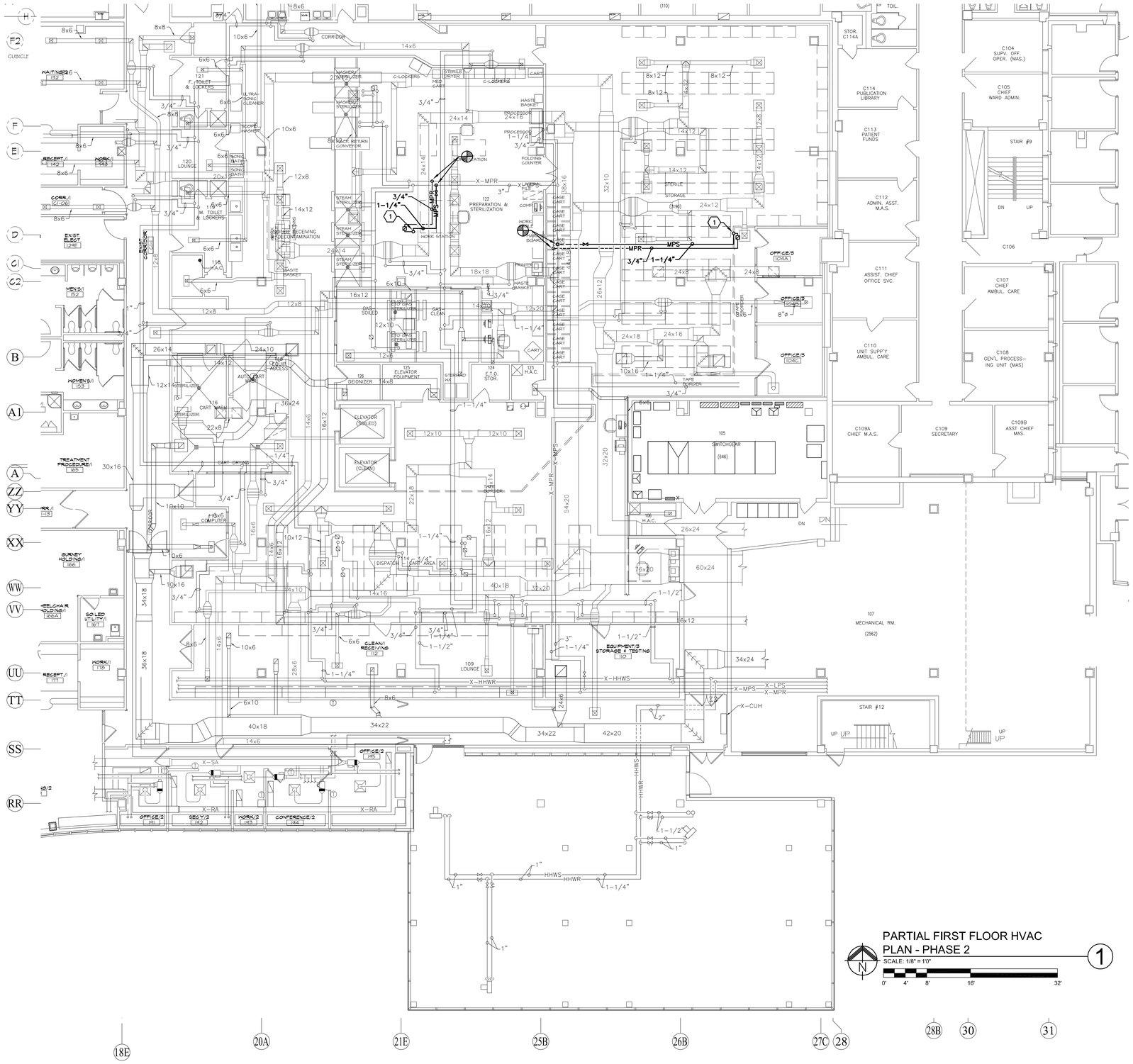
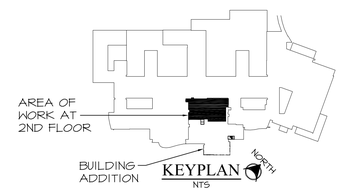


PARTIAL FIRST FLOOR HVAC PLAN - PHASE 2

1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'



GENERAL NOTES:

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

CODED NOTES:

1. 1" MPS UP TO NEW SUB-STERILE STERILIZER. COORDINATE RISER LOCATION WITH SECOND FLOOR EQUIPMENT PLACEMENT.

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FINAL BID DOCUMENTS	03-16-12
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CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0703 p (440) 891-0706 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-0699

Drawing Title: PARTIAL FIRST FLOOR HVAC PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H3-1
	Date: 03-16-12	Checked By: LDH	Drawn By: LDH

Office of Construction and Facilities Management

Department of Veterans Affairs

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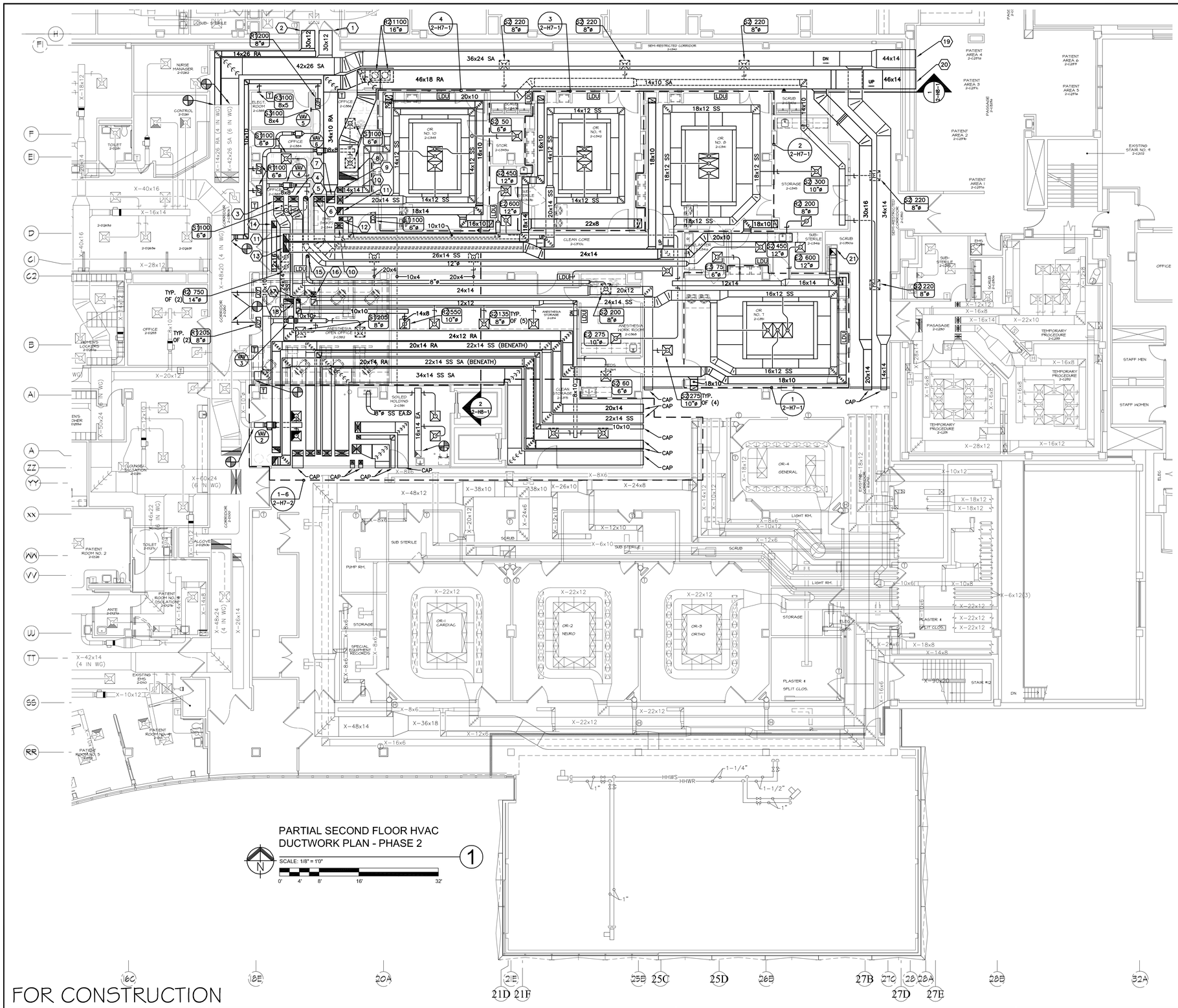


CODED NOTES:

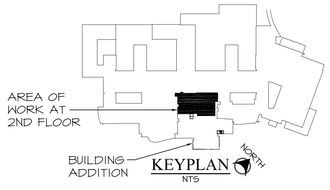
1. ROUTE 30x12 SA (6 IN WG) UNDER EXISTING CONCRETE BEAM. CAP ABOVE CEILING ON NORTH SIDE OF BEAM. DUCT SHALL BE ROUTED TIGHT TO BOTTOM OF EXISTING BEAM. PROVIDE TRANSITION AS NECESSARY TO ROUTE BETWEEN CEILING AND BOTTOM OF BEAM.
2. ROUTE 30x12 RA (4 IN WG) UNDER EXISTING CONCRETE BEAM. CAP ABOVE CEILING ON NORTH SIDE OF BEAM. DUCT SHALL BE ROUTED TIGHT TO BOTTOM OF EXISTING BEAM. PROVIDE TRANSITION AS NECESSARY TO ROUTE BETWEEN CEILING AND BOTTOM OF BEAM.
3. 24x14 SS SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
4. 24x14 SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
5. 12"ø SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
6. 26x14 SS SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
7. 20x16 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
8. 46x18 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
9. 14x14 SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
10. 20x14 SS SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
11. 18x14 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
12. 10x10 SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
13. 24x14 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
14. 16x12 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
15. 8"ø SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
16. 12x12 SA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
17. 10x10 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
18. 24x12 RA UP TO PENTHOUSE INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
19. ROUTE 44x14 SA (6 IN WG) THROUGH EXISTING WALL AND CAP ABOVE CEILING. PROVIDE ANGLE IRON SUPPORT AROUND STRUCTURAL PENETRATION. DUCT SHALL BE ROUTED TIGHT TO BOTTOM OF EXISTING BEAM.
20. ROUTE 46x14 RA (4 IN WG) THROUGH EXISTING WALL AND CAP ABOVE CEILING. PROVIDE ANGLE IRON SUPPORT AROUND STRUCTURAL PENETRATION. DUCT SHALL BE ROUTED TIGHT TO BOTTOM OF EXISTING BEAM.
21. 16x16 EA UP TO EF-2. COORDINATE ROOF PENETRATION WITH EXISTING STRUCTURE.

GENERAL NOTES:

A. ALL DUCT PENETRATIONS OF EXISTING STRUCTURE (WALL/ROOF) SHALL BE FIELD VERIFIED.

B. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING PENETRATION LOCATIONS TO ENGINEERS AND VA COTR FOR REVIEW PRIOR TO INSTALLATION.

C. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DUCT PRESSURE AND LEAKAGE CLASS.



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Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

CONSULTANTS:

STATE OF OHIO BRIAN J. WIDOWSKI 66625 PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET SERIA, OHIO 44017
(440) 891-0910 p (440) 892-0586 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 526-4900
FAX. (440) 546-4906

Approved: Project Director

Drawing Title	PARTIAL SECOND FLOOR HVAC DUCTWORK PLAN - PHASE 2
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	LDH
Drawing Number	2-H3-2

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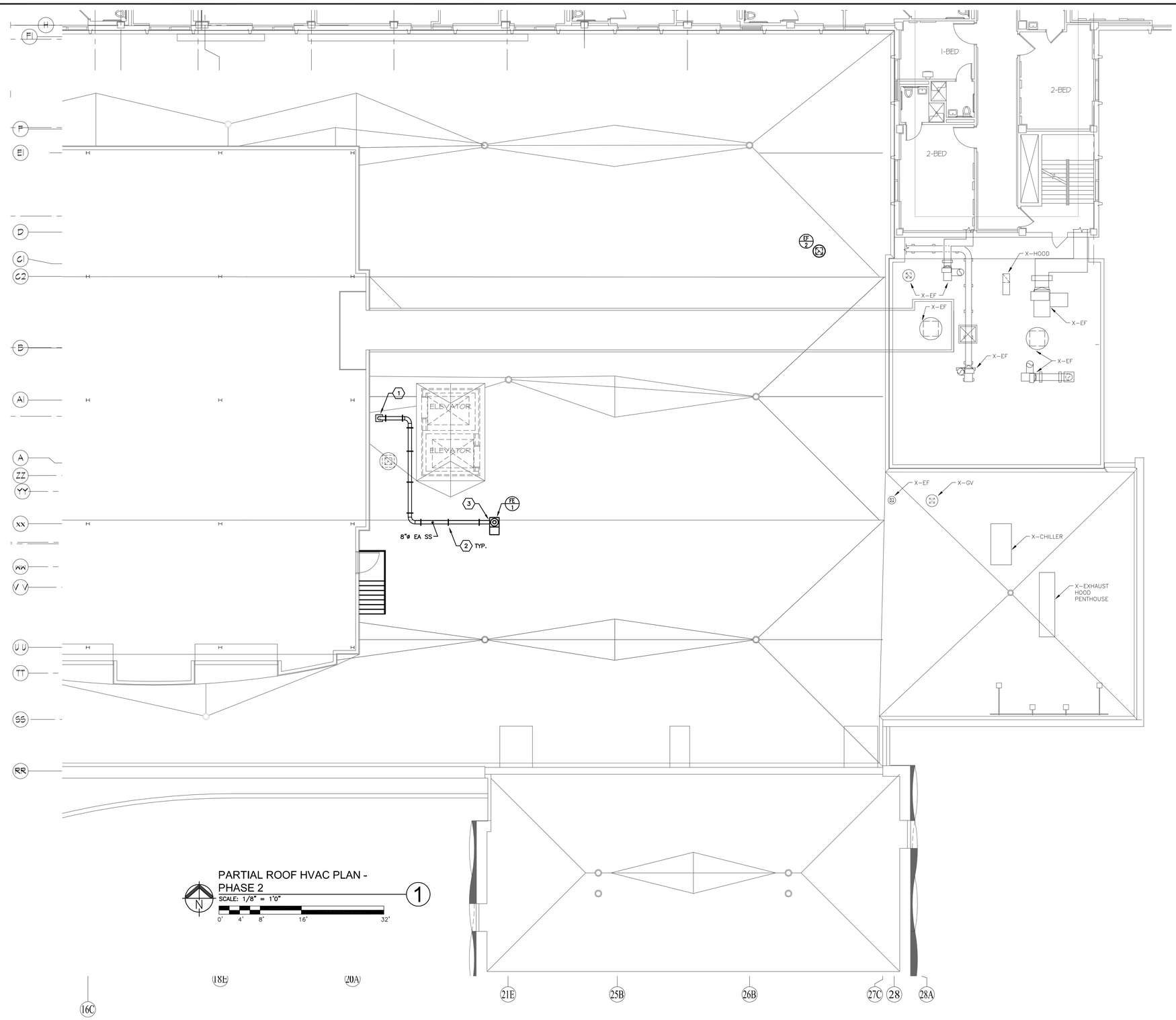
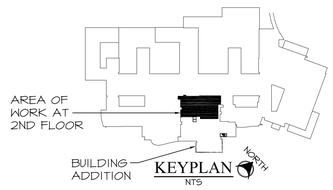


CODED NOTES:

1. 8"ø EA SS DOWN THROUGH ROOF TO SOILED HOLDING FUME HOOD. PROVIDE ROOF DUCT CURB AT PENETRATION.
2. PROVIDE ROOF DUCT SUPPORT SYSTEM (PATE DSS-2 OR EQUAL) FOR ROUTING DUCTWORK ON ROOF. SUPPORT DUCTWORK EVERY 6'-0" ON CENTER AND AT EACH ELBOW.
3. TRANSITION DUCT TO EXHAUST FAN INLET.



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FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0919 p (440) 891-0086 f

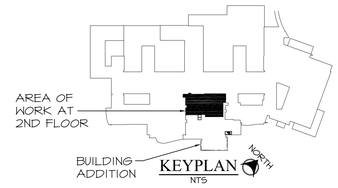
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX. (440) 546-9099

Drawing Title: PARTIAL ROOF HVAC PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H3-3
	Date: 03-16-12	Checked By: LDH	Drawn By: LDH

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



FOR CONSTRUCTION

FULLY SPRINKLERED

FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9699

Drawing Title: PARTIAL SECOND FLOOR HVAC PIPING PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H4-1
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Office of Construction and Facilities Management

Department of Veterans Affairs

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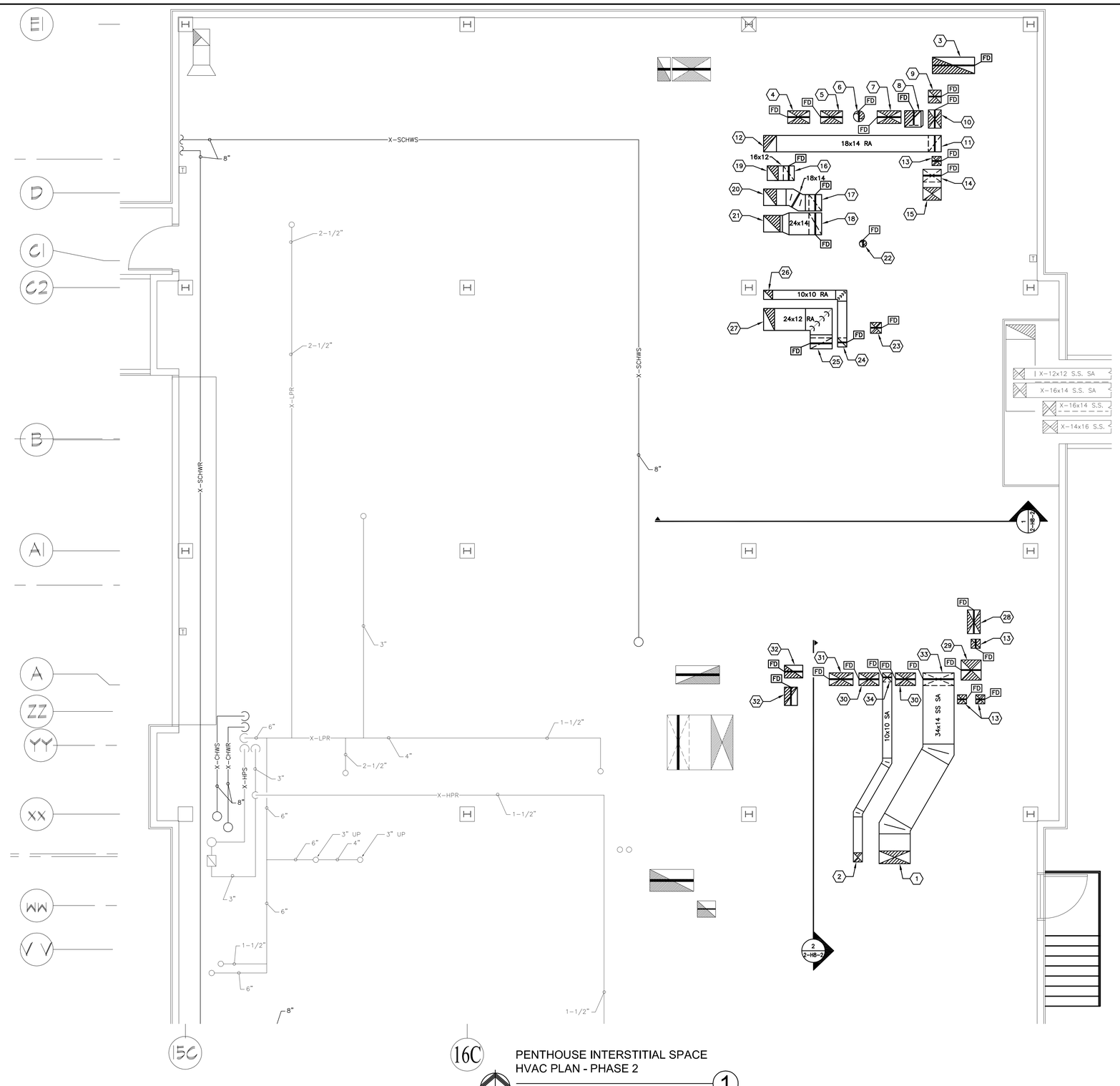

CODED NOTES:

1. 34x14 SS SA UP TO PENTHOUSE.
2. 10x10 SA UP TO PENTHOUSE.
3. 46x18 RA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
4. 24x14 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
5. 24x14 SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
6. 12"ø SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
7. 26x14 SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
8. 18x18 RA UP TO PENTHOUSE. TRANSITION 18x18 TO 20x16 DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
9. 14x14 SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
10. 20x14 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
11. 18x14 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
12. 18x14 RA UP TO PENTHOUSE.
13. 10x10 SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
14. 14x20 SS SA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
15. 20x14 SS SA UP TO PENTHOUSE.
16. 16x12 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
17. 18x14 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
18. 24x14 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
19. 16x12 RA UP TO PENTHOUSE.
20. 18x14 RA UP TO PENTHOUSE.
21. 18x18 RA UP TO PENTHOUSE.
22. 8"ø SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
23. 12x12 SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
24. 10x10 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
25. 24x12 RA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
26. 10x10 RA UP TO PENTHOUSE.
27. 24x12 RA UP TO PENTHOUSE.
28. 26x14 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
29. 22x22 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
30. 22x14 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
31. 26x14 SS SA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
32. 20x14 RA UP AND DOWN THROUGH INTERSTITIAL SPACE. OFFSET AS REQUIRED TO ACCOMMODATE STRUCTURE. PROVIDE FIRE DAMPER AT PENETRATION DOWN TO SECOND FLOOR.
33. 34x14 SS SA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.
34. 10x10 SA DOWN TO SECOND FLOOR. PROVIDE FIRE DAMPER AT PENETRATION.

GENERAL NOTES:

A. ALL DUCT PENETRATIONS OF EXISTING STRUCTURE (WALL/ROOF) SHALL BE FIELD VERIFIED. CONTRACTOR SHALL PROVIDE ALL NECESSARY ELBOWS, OFFSETS, FITTINGS AS REQUIRED TO ACCOMMODATE STRUCTURE.

B. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DUCT ROUTING AND PENETRATION LOCATIONS TO ENGINEERS AND VA COTR FOR REVIEW PRIOR TO INSTALLATION.

C. CONTRACTOR SHALL PROVIDE WATERTIGHT SEAL (FLASHING, ETC.) AT PENETRATIONS OF EXISTING ROOF MEMBRANE WITHIN PENTHOUSE INTERSTITIAL SPACE.

15C

16C

PENTHOUSE INTERSTITIAL SPACE
HVAC PLAN - PHASE 2

1

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'

FOR CONSTRUCTION

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Revisions:	Date

CONSULTANTS:

STATE OF OHIO
BRIAN H. WOJNSKI
66625
PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0586 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST BROADWAY ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-0000
FAX: (440) 546-0090

Drawing Title: PENTHOUSE INTERSTITIAL SPACE HVAC PLAN - PHASE 2

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

Project Number: 541-364

Building Number:

Drawing Number: 2-H5-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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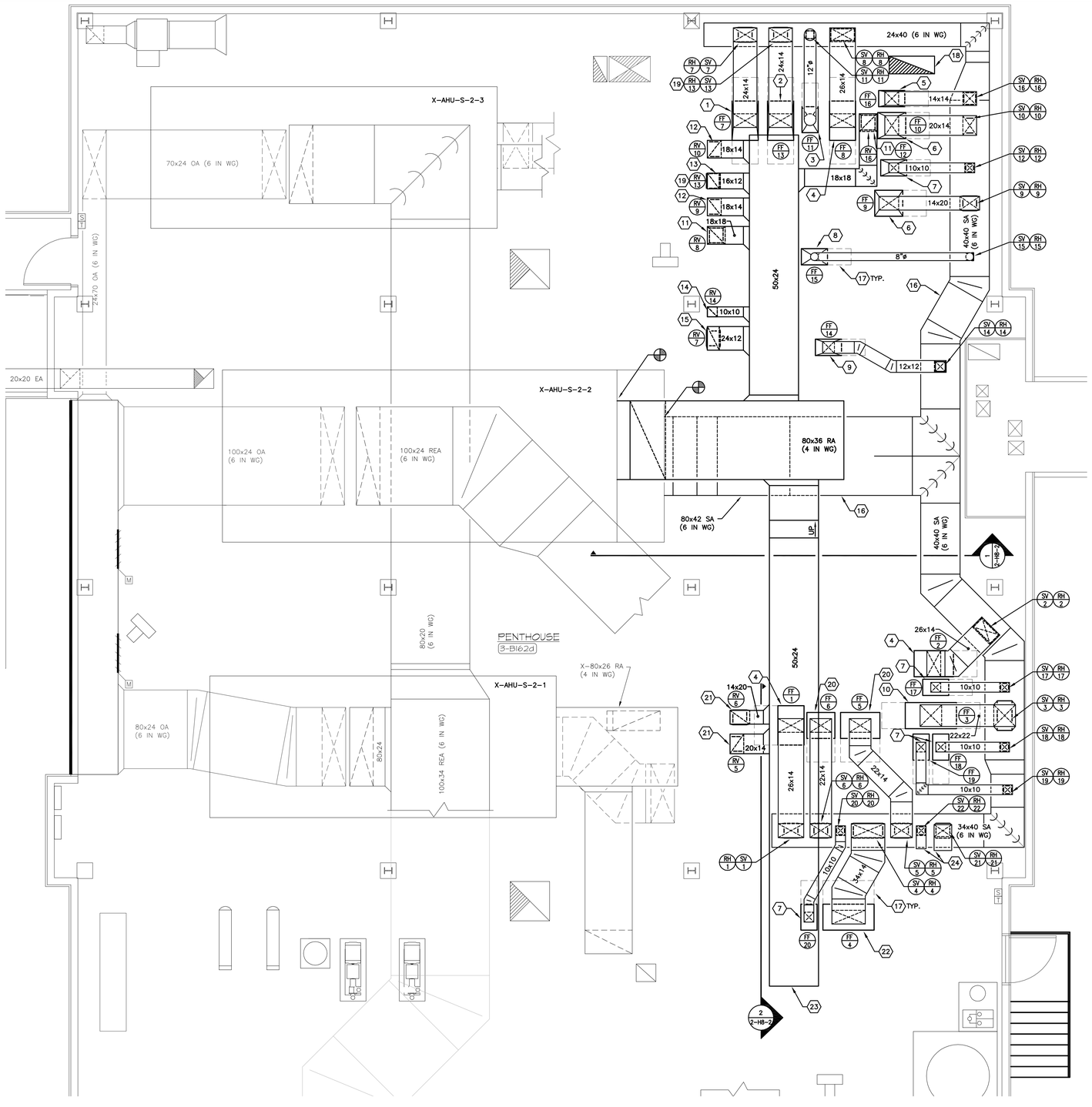
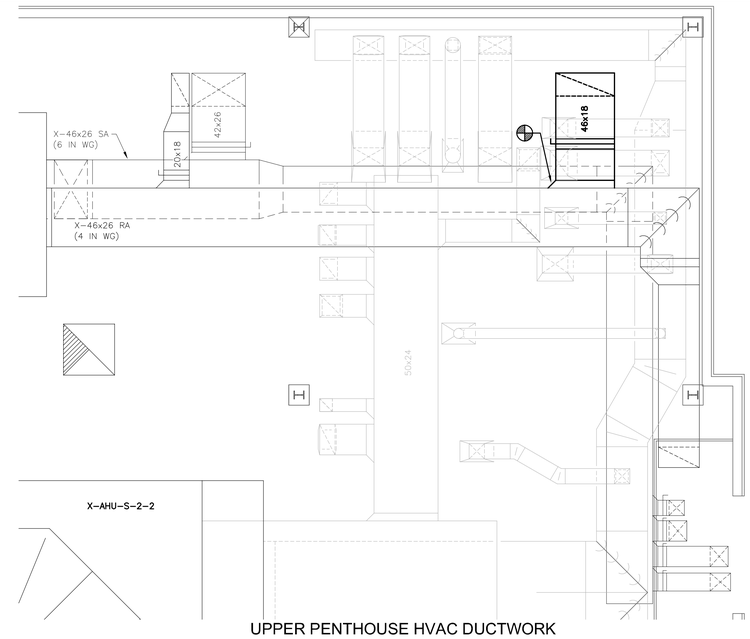


PENTHOUSE HVAC DUCTWORK PLAN - PHASE 2

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'

1



UPPER PENTHOUSE HVAC DUCTWORK PLAN - PHASE 2

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'

2

CODED NOTES:

1. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 24x14 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
2. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 24x14 SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
3. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 12"ø SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
4. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 26x14 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
5. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 14x14 SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
6. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 20x14 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
7. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 10x10 SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
8. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 8"ø SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
9. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 12x12 SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
10. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 22x22 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
11. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 18x18 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
12. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 18x14 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
13. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 16x12 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
14. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 10x10 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
15. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 24x12 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
16. SUPPLY DUCT MAIN SHALL BE ROUTED ON THE PENTHOUSE FLOOR. PROVIDE FLOOR-MOUNTED DUCT SUPPORT EVERY 6'-0" ON CENTER AND AT EACH CHANGE IN DIRECTION. REFER TO DETAIL.
17. PROVIDE FULL MAINTENANCE ACCESSIBILITY TO ALL EQUIPMENT (VENTURI, REHEAT COILS, VALVES, FILTER MODULES, ETC.). HEPA FILTER MODULES SHALL BE GIVEN ACCESS FOR FULL FILTER PULL.
18. 46x18 RA UP AND DOWN. REFER TO UPPER PENTHOUSE PLAN (THIS DWG) FOR CONTINUATION. ROUTE RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
19. SETPOINTS FOR SV-13 SHALL BE SET TO 1100 CFM MAX. AND 550 CFM MIN. AT COMPLETION OF PHASE 2. SETPOINTS RV-13 SHALL BE SET TO 925 CFM MAX. AND 450 CFM MIN. AT COMPLETION OF PHASE 2. SETPOINTS SHALL BE READJUSTED AS PART OF PHASE 3.
20. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 22x14 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
21. TRANSITION FROM RETURN VENTURI VALVE OUTLET TO 20x14 RA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
22. TRANSITION FROM SUPPLY FILTER MODULE OUTLET TO 34x14 SS SA DOWN THROUGH PENTHOUSE FLOOR. REFER TO DWG. 2-H5-1 FOR CONTINUATION.
23. CAP END OF RETURN AIR MAIN AT APPROXIMATE LOCATION. REFERENCE PHASE 3 PENTHOUSE HVAC PLAN FOR ADDITIONAL INFORMATION.
24. CAP SUPPLY ZONE DUCT AT POINT INDICATED FOR FUTURE CONNECTION UNDER PHASE 3.

GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY ALL DUCT PENETRATIONS OF PENTHOUSE FLOOR WITH EXISTING STRUCTURE. CONTRACTOR SHALL PROVIDE ALL NECESSARY ELBOWS, OFFSETS, FITTINGS AS REQUIRED TO ACCOMMODATE STRUCTURE.

B. CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DUCT ROUTING AND PENETRATION LOCATIONS TO ENGINEERS AND VA COTR FOR REVIEW PRIOR TO INSTALLATION.

C. CONTRACTOR SHALL CUT PENTHOUSE FLOORING AS REQUIRED TO INSTALL DUCTWORK DOWN TO INTERSTITIAL SPACE.

D. UPON INSTALLATION, PROVIDE 1-INCH WATER DAM AROUND FLOOR PENETRATION. SEAL AROUND DUCT PENETRATION.

FOR CONSTRUCTION

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CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0919 (440) 891-0916 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9096
FAX. (440) 546-0890

Drawing Title: PENTHOUSE HVAC DUCTWORK PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H5-2
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Department of Veterans Affairs

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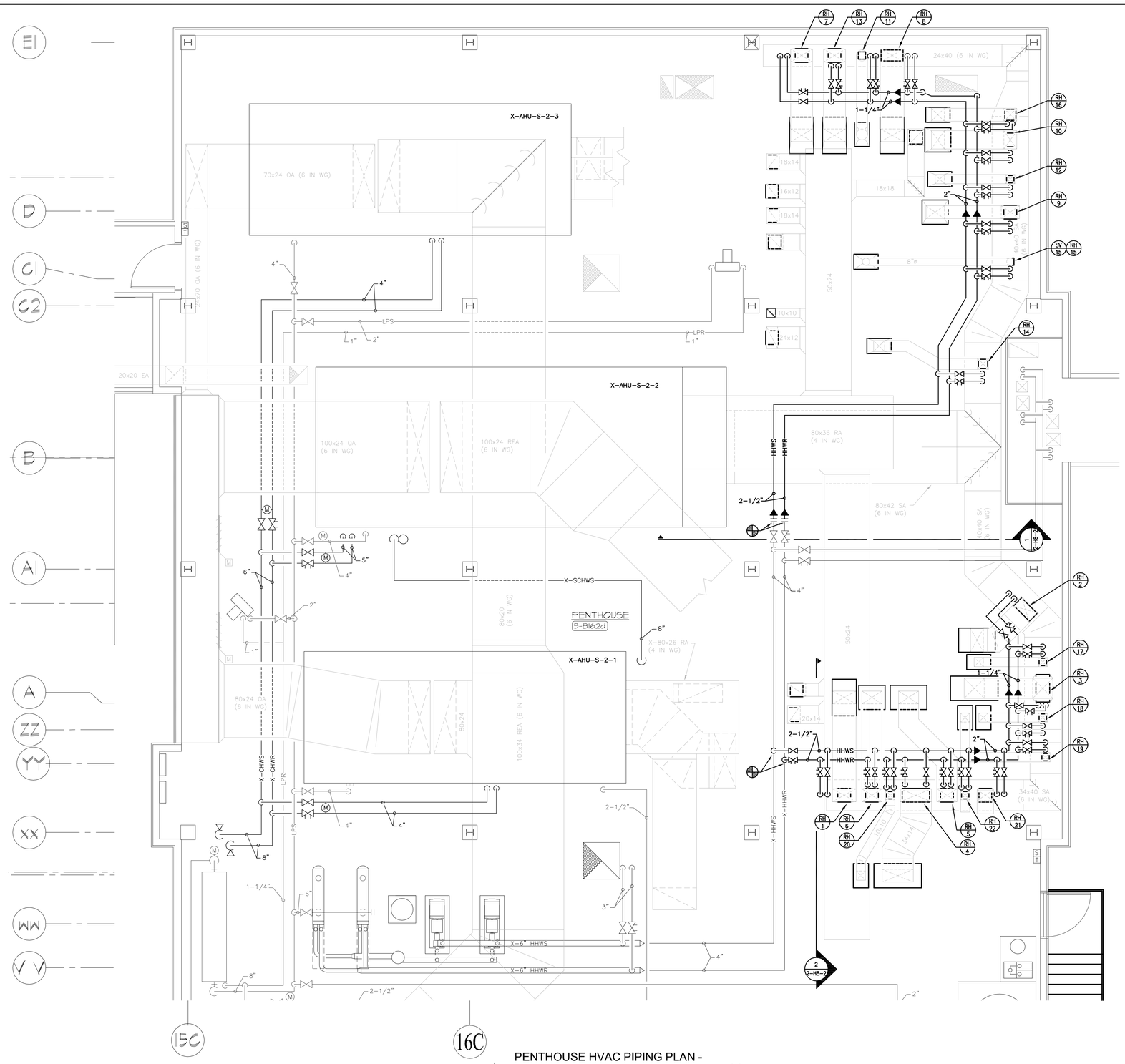

PENTHOUSE HVAC PIPING PLAN - PHASE 2

SCALE: 1/4" = 1'0"

1

GENERAL NOTES:

A. REFER TO HEATING HOT WATER DIAGRAM, DWG. 0-H6-2, FOR ADDITIONAL INFORMATION.

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Revisions:	Date

CONSULTANTS:

STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

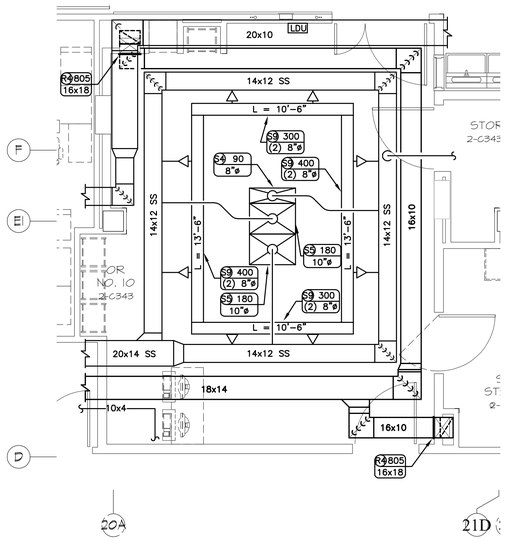
ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8970 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9696
FAX: (440) 546-9699

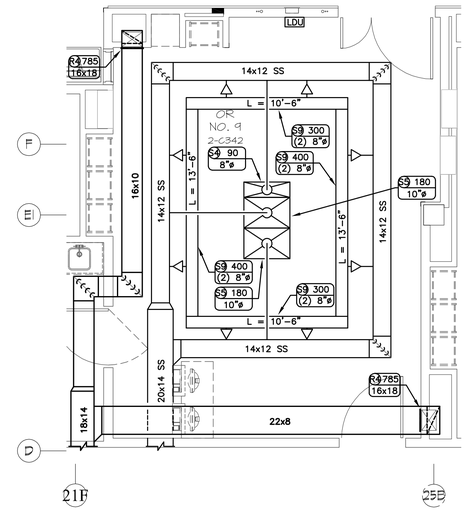
Drawing Title: PENTHOUSE HVAC PIPING PLAN - PHASE 2	Project Title: SURGERY ADDITION	Project Number: 541-364	Office of Construction and Facilities Management
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106	Building Number	
	Date: 03-16-12 / Checked By: LDH / Drawn By: LDH	Drawing Number: 2-H6-1	Department of Veterans Affairs

VA FORM 08-6231



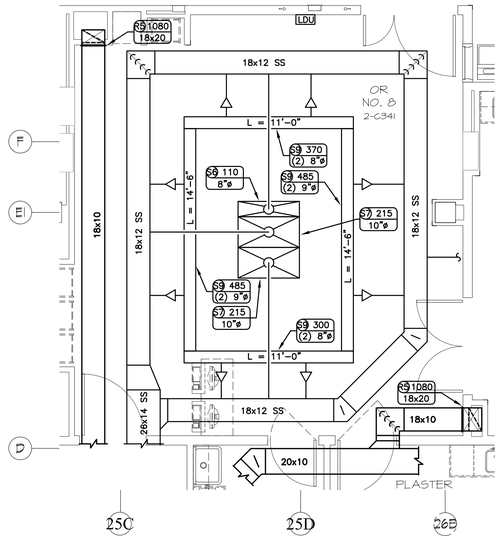
OPERATING ROOM #10 HVAC PLAN 4

SCALE: 1/4" = 1'0"



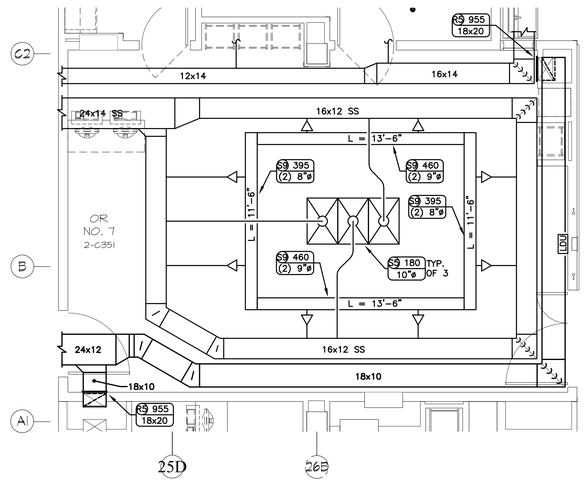
OPERATING ROOM #9 HVAC PLAN 3

SCALE: 1/4" = 1'0"



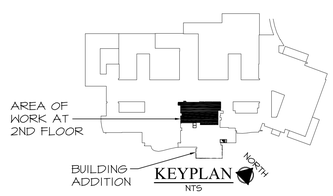
OPERATING ROOM #8 HVAC PLAN 2

SCALE: 1/4" = 1'0"



OPERATING ROOM #7 HVAC PLAN 1

SCALE: 1/4" = 1'0"



KEYPLAN NTS

FOR CONSTRUCTION

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Revisions:	Date

CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8970 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9898
FAX: (440) 546-9899

Drawing Title: OPERATING ROOM HVAC PLANS - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H7-1
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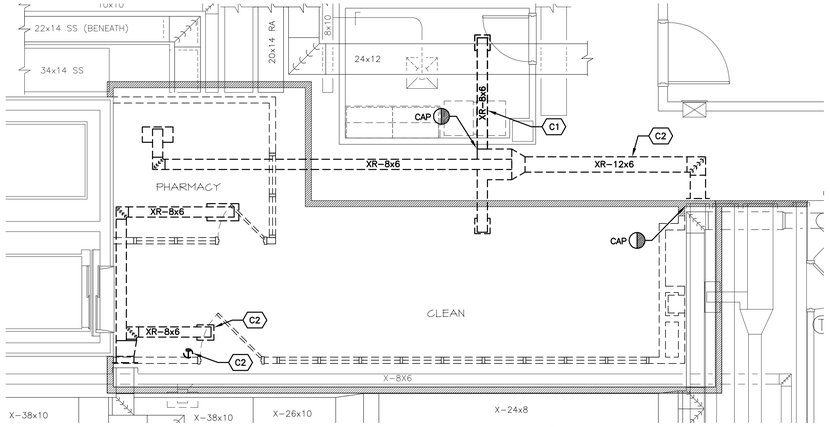
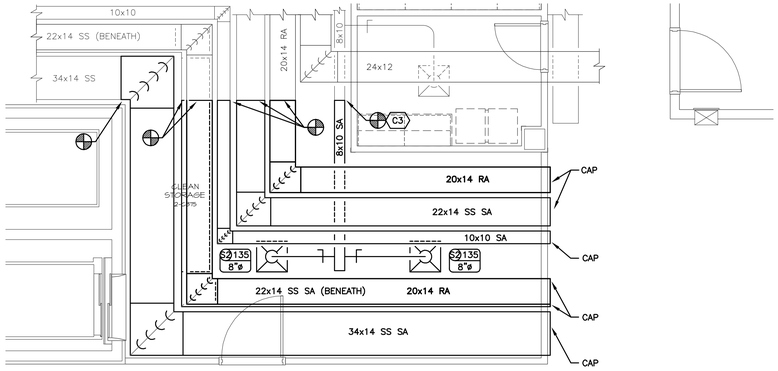
Office of Construction and Facilities Management

Department of Veterans Affairs

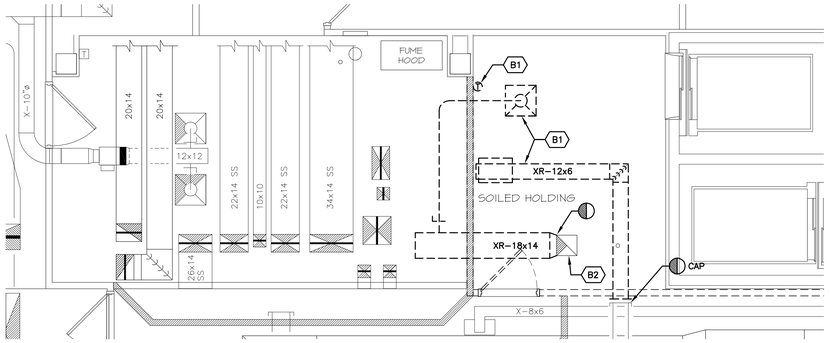
VA FORM 08-6231



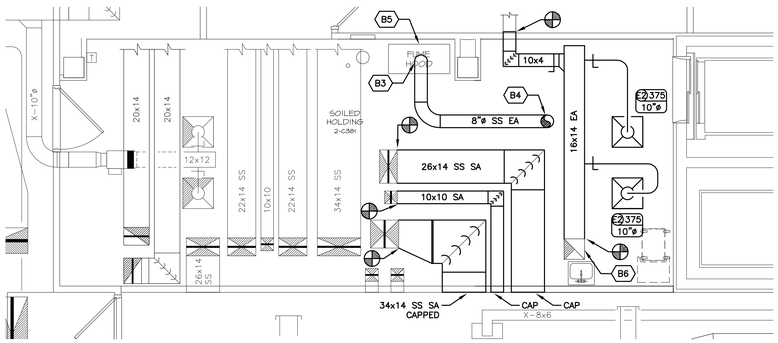
PHASE 2C DEMO 5
SCALE: 1/4" = 1'0"



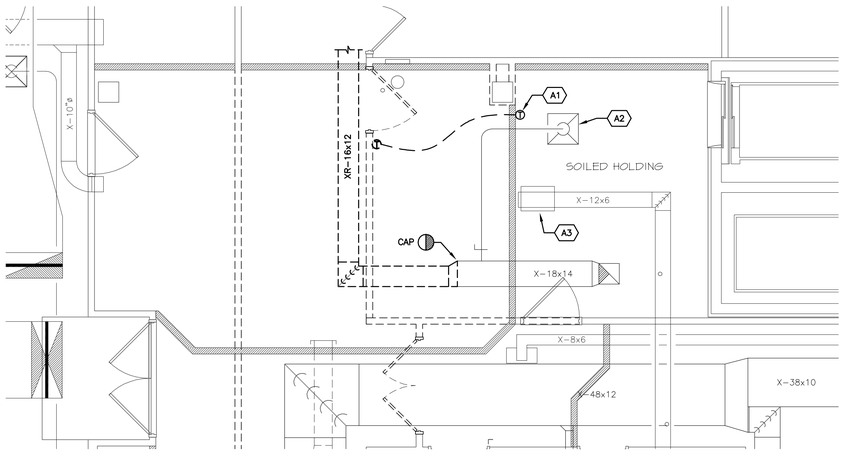
PHASE 2C NEW 6
SCALE: 1/4" = 1'0"



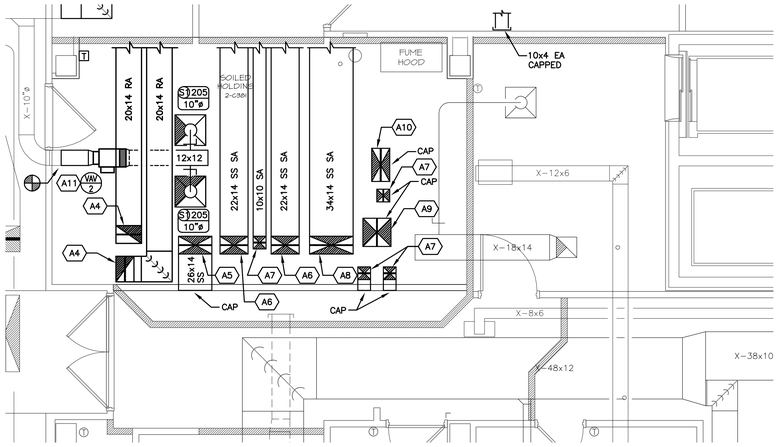
PHASE 2B DEMO 3
SCALE: 1/4" = 1'0"



PHASE 2B NEW 4
SCALE: 1/4" = 1'0"



PHASE 2A DEMO 1
SCALE: 1/4" = 1'0"



PHASE 2A NEW 2
SCALE: 1/4" = 1'0"

CODED NOTES (PHASE 2C):

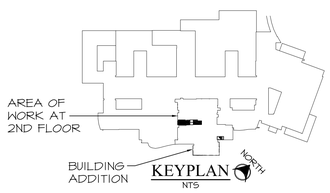
- C1 EXISTING SUPPLY DUCT SHALL BE REMOVED PRIOR TO PHASE 2C.
- C2 REMOVE EXISTING DUCTWORK, GRILLES, CONTROLS, ETC. AS INDICATED. EXISTING TEMPERATURE ZONE SHALL BE DEACTIVATED.
- C3 RE-BALANCE AIRFLOWS CONNECTED UPSTREAM UPON INSTALLATION OF PHASE 2C. AIRFLOWS SHALL BE BALANCED TO AIRFLOWS INDICATED ON PLANS.

CODED NOTES (PHASE 2B):

- B1 REMOVE EXISTING DUCTWORK, GRILLES, CONTROLS, ETC. AS INDICATED. EXISTING TEMPERATURE ZONE SHALL BE DEACTIVATED.
- B2 EXISTING ROOFTOP EXHAUST FAN TO REMAIN.
- B3 8"ø SS EA DOWN TO FUME HOOD. TRANSITION AS REQUIRED TO FUME HOOD CONNECTION.
- B4 8"ø SS EA UP TO ROOF.
- B5 CONTRACTOR SHALL VERIFY WITH VA COTR FINAL FUME HOOD SELECTION.
- B6 RE-BALANCE EXISTING ROOFTOP EXHAUST FAN TO NEW CONNECTED AIR FLOWS. CONTRACTOR SHALL RE-BALANCE AND RE-SHEAVE AS NECESSARY. PROVIDE NEW BELTS.

CODED NOTES (PHASE 2A):

- A1 RELOCATE EXISTING THERMOSTAT TO NEW TEMPORARY WALL.
- A2 RE-BALANCE EXHAUST SERVING SOILED HOLDING TO 300 CFM.
- A3 RE-BALANCE SUPPLY AIR SERVING SOILED HOLDING TO 250 CFM.
- A4 20x14 RA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A5 26x14 SS SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A6 22x14 SS SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A7 10x10 SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A8 34x14 SS SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A9 22x22 SS SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A10 14x26 SS SA UP TO INTERSTITIAL SPACE. PROVIDE FIRE DAMPER AT PENETRATION.
- A11 VAV-2 SHALL BE ACTIVATED AND BALANCED UPON COMPLETION OF PHASE 2B.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

STATE OF OHIO BRIAN M. WIDOWSKI 66625 REGISTERED PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
131 FRONT STREET BEREA, OHIO 44017
(440) 891-0093 (440) 891-0096

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-0096
FAX. (440) 546-0099

Drawing Title: HVAC PHASING PLANS - SUB-PHASES 2A, 2B, 2C	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-H7-2
	Date: 03-16-12	Checked By: LDH	Drawn By: LDH

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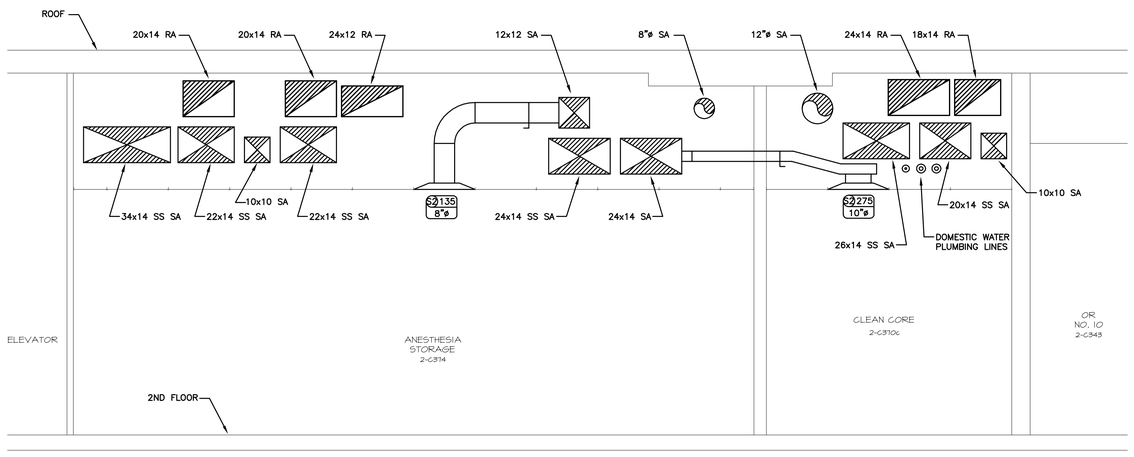
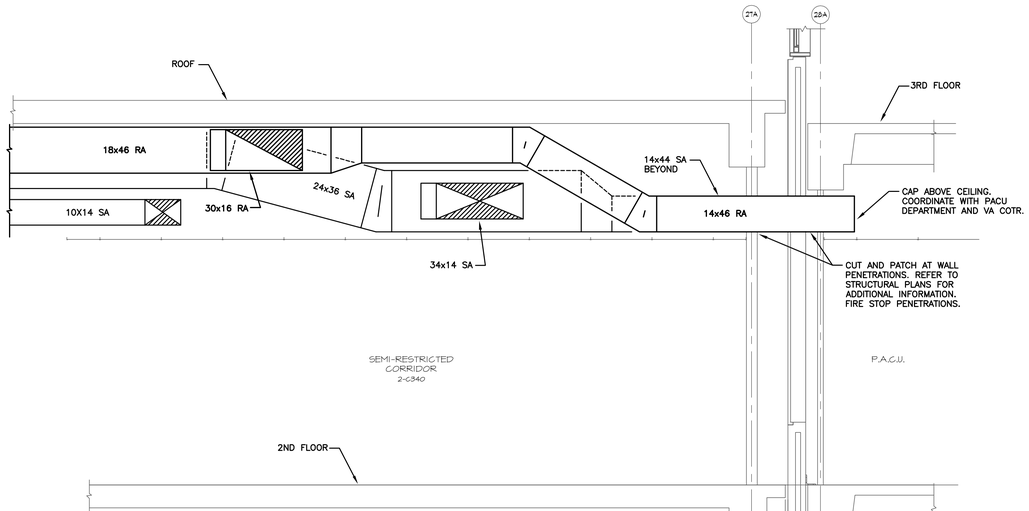


MECHANICAL SECTION 2

SCALE: 1/2" = 1'0"

0' 1' 2' 4' 8'

2
2-H8-1



MECHANICAL SECTION 1

SCALE: 1/2" = 1'0"

0' 1' 2' 4' 8'

1
2-H8-1

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STATE OF OHIO
BRIAN M. WIDOWSKI
66625
REGISTERED PROFESSIONAL ENGINEER

FF&H #10012

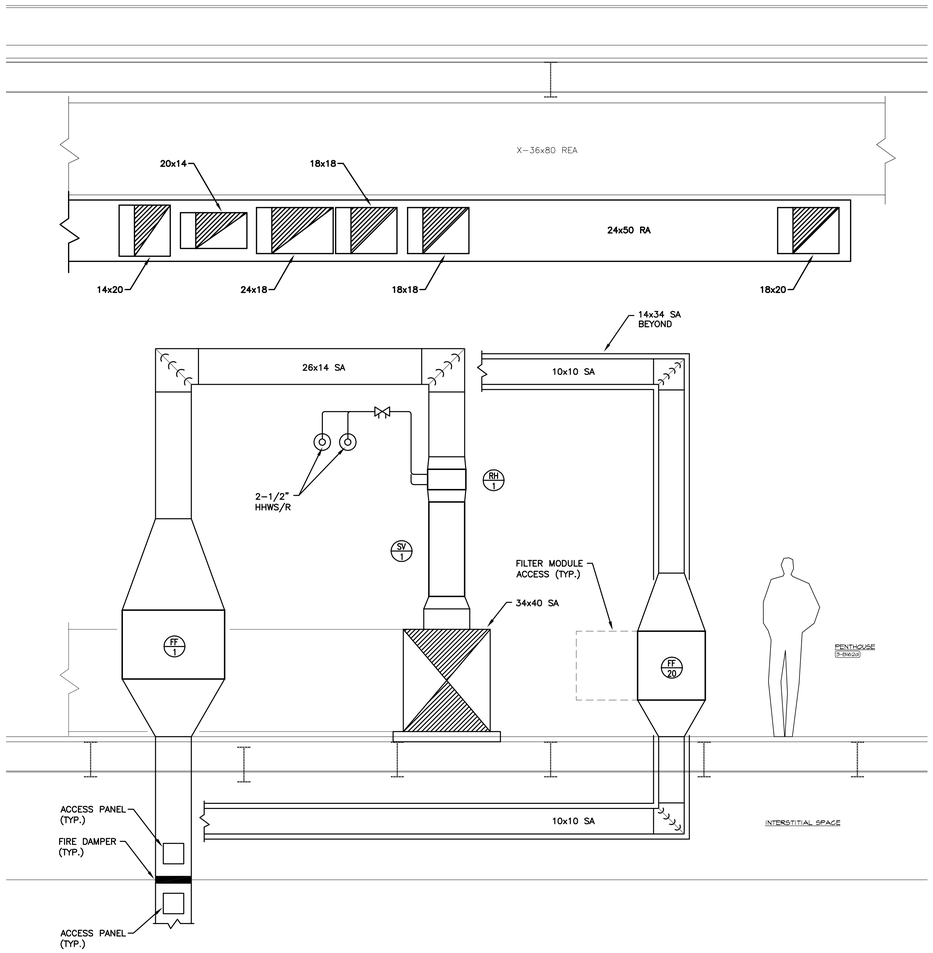
ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9898
FAX: (440) 546-9899

Drawing Title: MECHANICAL SECTIONS	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: LDH / Drawn By: LDH	Drawing Number: 2-H8-1	Department of Veterans Affairs

VA FORM 08-6231

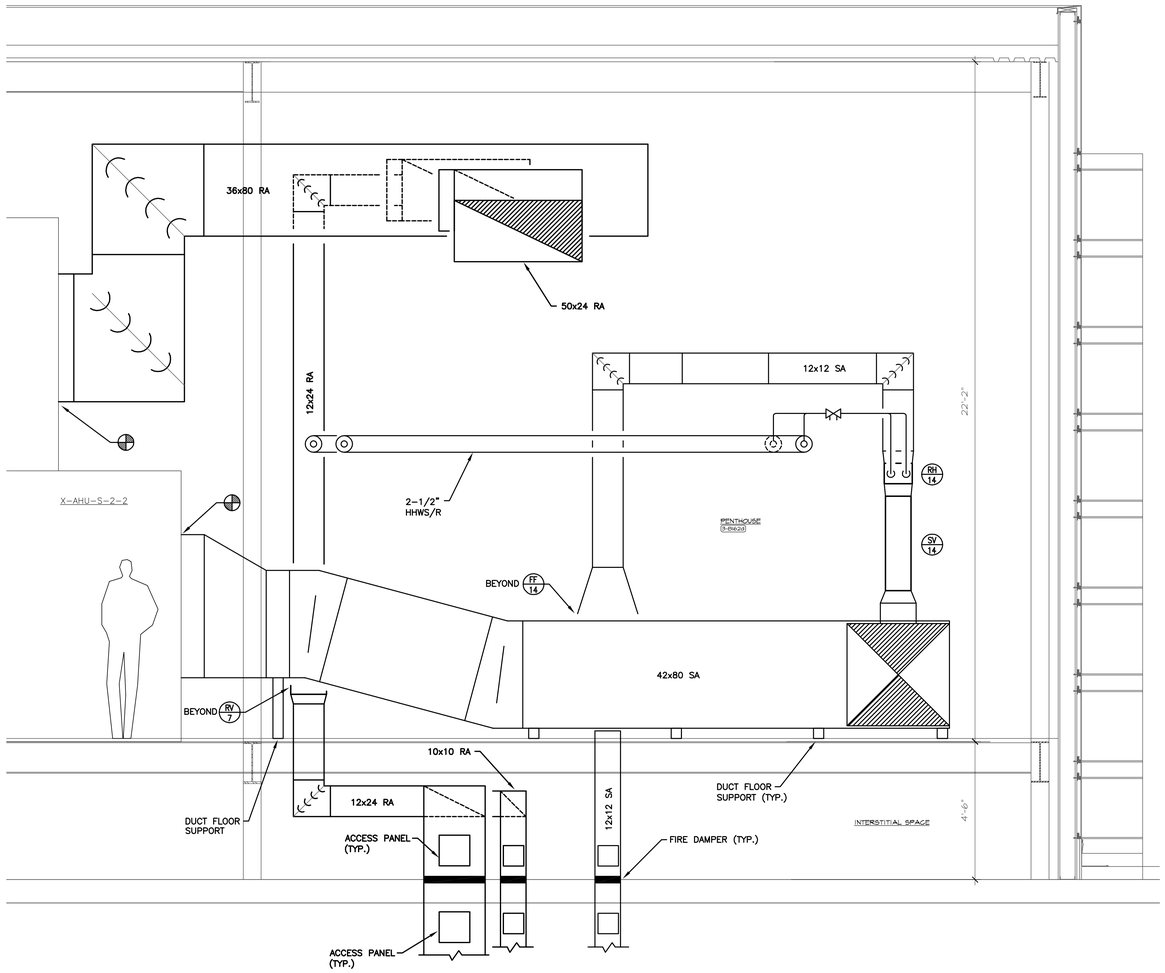


MECHANICAL SECTION 2

SCALE: 1/2" = 1'0"

0' 1' 2' 4' 8'

2
2-H8-2



MECHANICAL SECTION 1

SCALE: 1/2" = 1'0"

0' 1' 2' 4' 8'

1
2-H8-2

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STATE OF OHIO
BRIAN M. WDOWSKI
66625
PROFESSIONAL ENGINEER

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0930 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-0088
FAX: (440) 546-0080

Drawing Title: MECHANICAL SECTIONS

Approved: Project Director

Project Title: SURGERY ADDITION

Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106

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

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Building Number:

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Office of Construction and Facilities Management

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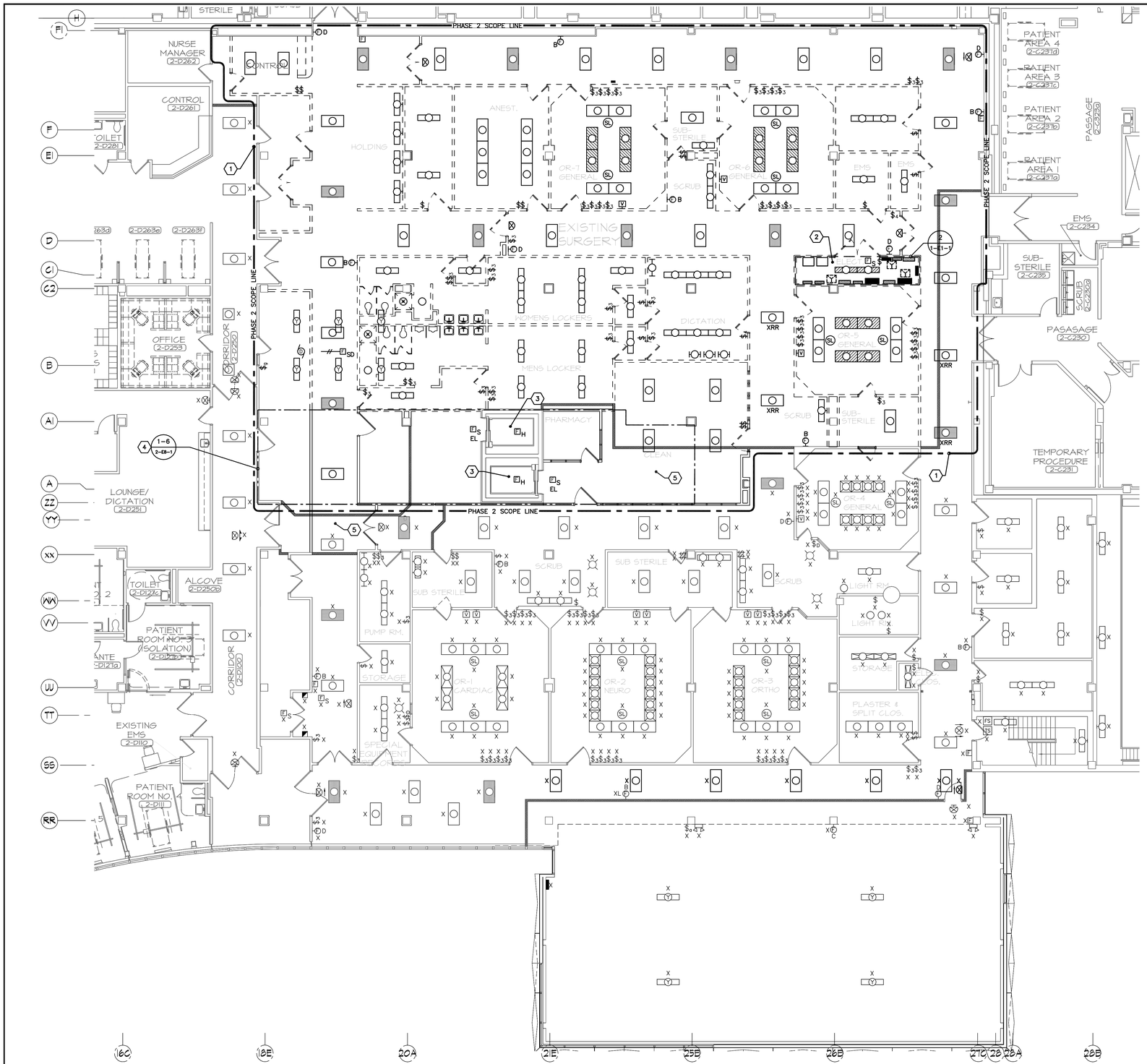


PARTIAL SECOND FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN - PHASE 2 (1)

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.

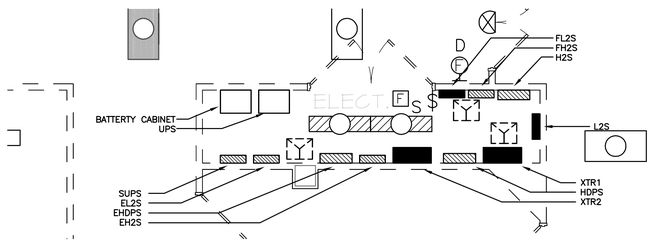
D5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.

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:

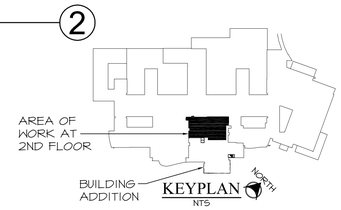
1. MAINTAIN CONTINUITY TO LIGHTING AND FIRE ALARM CIRCUITS OUTSIDE OF PHASE 2 SCOPE LINE.
2. RECONNECT EXISTING BRANCH CIRCUITS IN PHASE 3 AREA TO NEW POWER SOURCE PRIOR TO DEMOLITION OF ELECTRICAL ROOM # 2509. REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM FOR WORK REQUIREMENTS.
3. PROVIDE UPGRADE TO ALL FIRE ALARM DEVICES THAT INTERFACE WITH ELEVATOR CONTROLS. COORDINATE SHUT-DOWN WITH VA COTR. COORDINATE UPGRADES WITH VA COTR AND ELEVATOR VENDOR RETAINED BY OWNER. REFER TO "FIRE ALARM RISER DIAGRAM" FOR ADDITIONAL DETAILS.
4. REFER TO DRAWING 2-E8-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR DETAILED PHASING REQUIREMENTS.
5. REWORK LIGHTING CONTROLS TO PROVIDE INDEPENDENT SWITCHING FROM OTHER AREAS SEPARATED BY TEMPORARY CONSTRUCTION PARTITIONS.



ELECTRICAL ROOM ENLARGED PLAN (2)

SCALE: 1/4" = 1'0"

0' 2' 4' 8' 16'



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FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0950 p (440) 891-0956 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
PH: (440) 546-0900
FAX: (440) 546-0909

Drawing Title: PARTIAL SECOND FLOOR LIGHTING AND FIRE ALARM DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-E1-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

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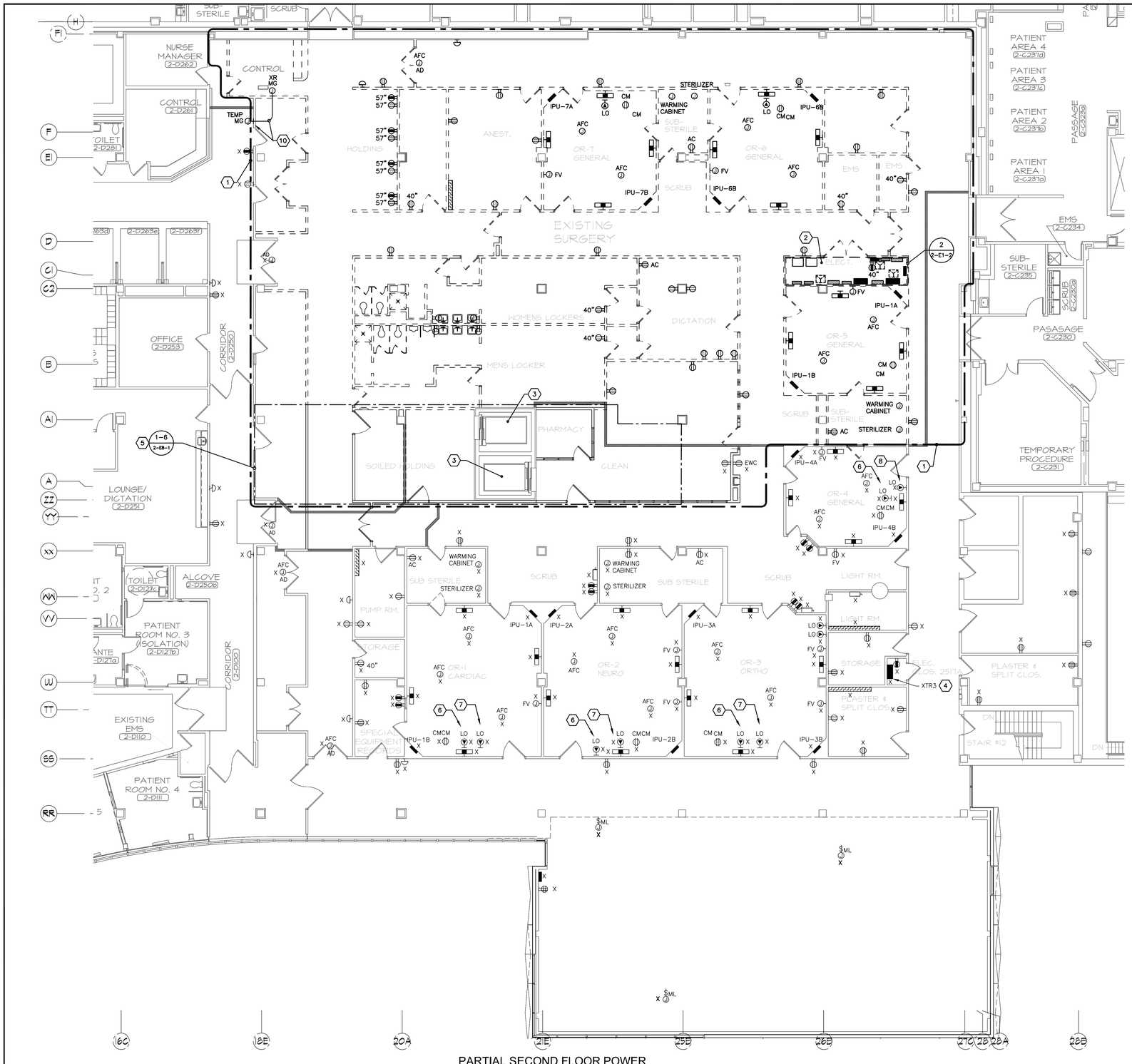


PARTIAL SECOND FLOOR POWER DEMOLITION PLAN - PHASE 2 — 1

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.

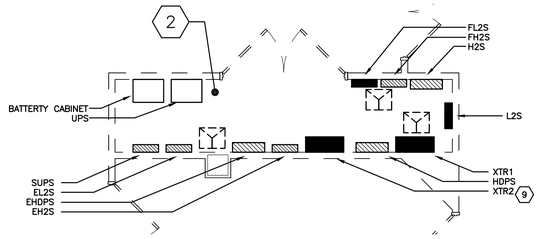
D5. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.

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.

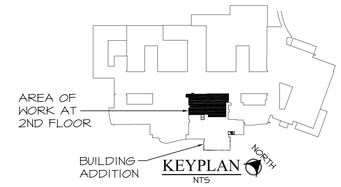
CODED NOTES:

1. MAINTAIN CONTINUITY TO LIGHTING AND FIRE ALARM CIRCUITS OUTSIDE OF PHASE 2 SCOPE LINE.
2. RECONNECT EXISTING BRANCH CIRCUITS IN PHASE 3 AREA TO NEW POWER SOURCE PRIOR TO DEMOLITION OF ELECTRICAL ROOM # 2509. REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM FOR WORK REQUIREMENTS.
3. MAINTAIN OPERATION OF ELEVATORS.
4. REFEED EXISTING ISOLATED POWER PANEL XTR3 FOR OPERATING ROOM LASERS. REFER TO ELECTRICAL ONELINE DIAGRAM FOR ADDITIONAL INFORMATION.
5. REFER TO DRAWING 2-E8-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR ADDITIONAL DETAILED PHASING REQUIREMENTS IN THESE AREAS.
6. MAINTAIN 30A-3P LASER OUTLET SUPPLIED FROM ISOLATED POWER PANEL LQ2FR LOCATED IN FIRST FLOOR ELEC. ROOM 105.
7. MAINTAIN 60A-2P LASER OUTLET SUPPLIED FROM ISOLATED POWER PANEL XTR3 LOCATED IN FIRST FLOOR ELEC. ROOM 2517A.
8. RECONNECT 60A-2P LASER OUTLET TO ISOLATED POWER PANEL XTR2 AFTER IT IS RELOCATED TO NEW ELEC. ROOM 2-C385.
9. RELOCATE EXISTING PANEL XTR2 TO NEW ELECTRICAL ROOM 2-C385 TO RESUPPLY O.R. 4 LASER OUTLET CURRENTLY SUPPLIED FROM PANEL XTR1.
10. EXTEND 20A-120V CIRCUIT FROM EXISTING MEDICAL GAS ALARM PANEL TO TEMPORARY MEDICAL GAS ALARM PANEL. THEN REMOVE EXISTING MEDICAL GAS ALARM PANEL.



ELECTRICAL ROOM 2509 ENLARGED PLAN — 2

SCALE: 1/4" = 1'0"



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CONSULTANTS:

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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 (p) (440) 891-0596 (f)

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-0899

Drawing Title: PARTIAL SECOND FLOOR POWER DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-E1-2
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

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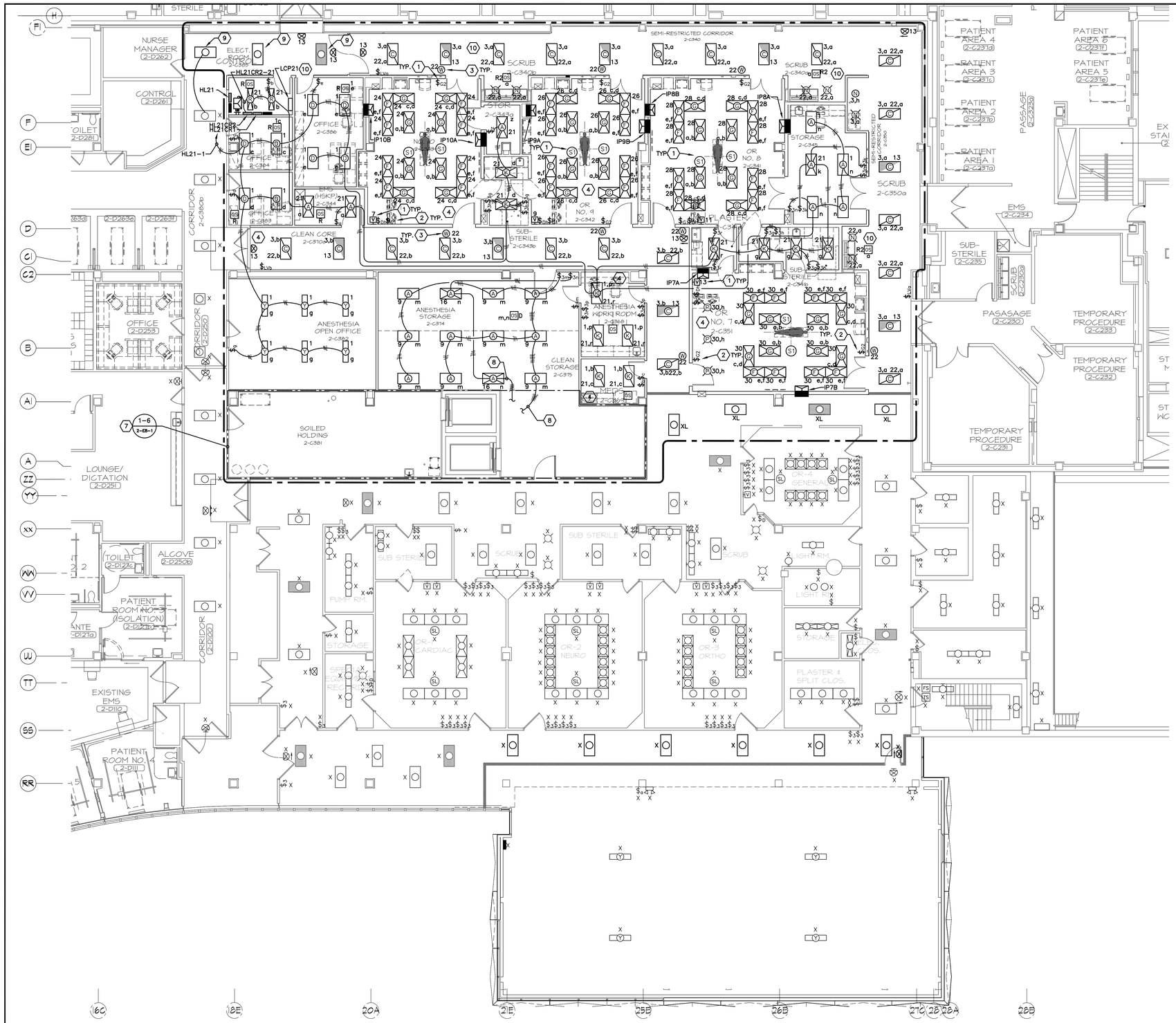


PARTIAL SECOND FLOOR LIGHTING PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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.

CODED NOTES:

1. CONNECT PROCEDURE ROOM SURGICAL LIGHTING FIXTURE (AND CONTROLLER) COMPLETE TO 120V CIRCUITS INDICATED IN "SURGICAL LIGHTING CONNECTION TABLE" ON THIS DRAWING. REFER TO THE FOLLOWING DETAILS ON DRAWING 0-E4-3 FOR CONNECTION DETAILS: "SURGICAL LIGHTING FIXTURE UPS CONNECTION DIAGRAM" "SURGICAL LIGHTING FIXTURE VARIABLE INTENSITY CONTROLLER DIAGRAM"
2. PROVIDE LIGHT SWITCH GROUP AS INDICATED. SEE SWITCH GROUPING DETAIL ON "ELECTRICAL DETAILS" FOR ADDITIONAL INFORMATION.
3. LASER WARNING LIGHT – SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. CONNECT LIGHTING CIRCUITS TO PANEL INDICATED ON "LIGHTING CIRCUIT CONNECTION TABLE."
5. CONNECT LIGHTING FIXTURES TO OCCUPANCY SENSORS PER WIRING DIAGRAMS ON ELECTRICAL DETAILS PLAN AND MANUFACTURERS' REQUIREMENTS.
6. PROVIDE JUNCTION BOX WITH CIRCUITS SUPPLYING PHASE 3 SURGICAL LIGHTING.
7. REFER TO DRAWING 2-E8-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR DETAILED PHASING REQUIREMENTS.
8. SPLICE AND EXTEND LIGHTING CIRCUITS FROM PHASE 2 SUBPHASES.
9. PROVIDE NEW 2'X4' LIGHTING FIXTURE – MATCH EXISTING. SPLICE AND EXTEND SWITCHED CIRCUIT FROM EXISTING CORRIDOR LIGHTING.
10. REFER TO "LIGHTING CONTROL PANEL DETAIL" ON DRAWING 0-E4-4 FOR REQUIREMENTS.
11. REFER TO "CORRIDOR LIGHTING WIRING DETAIL" ON DRAWING 0-E4-4 FOR CONNECTION DF CORRIDOR LIGHTING AND SCRUB SINK LIGHTING CONTROL.

'LCP21' RELAY CONTROL SCHEDULE

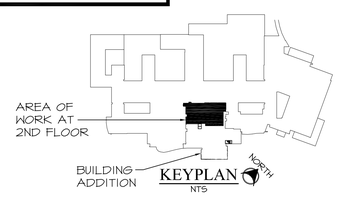
RELAY NUMBER	SUPPLY CKT	LOAD DESCRIPTION	SWITCH
-01	HL21-3	NORTH SEMI-RESTRICTED CORRIDOR	$LVa
-02	HL21CR1-22	NORTH SEMI-RESTRICTED CORRIDOR	$LVa
-03	HL11-3	CLEAN CORRIDOR	$LVb
-04	HL21CR1-22	CLEAN CORRIDOR	$LVb
-05	HL21-3	SOUTHEAST SEMI-RESTRICTED CORRIDOR	$LVc
-06	HL21CR1-22	SOUTHEAST SEMI-RESTRICTED CORRIDOR	$LVc
-07	HL21-3	SOUTH SEMI-RESTRICTED CORRIDOR	$LVd
-08	HL21CR1-22	SOUTH SEMI-RESTRICTED CORRIDOR	$LVd

LIGHTING CIRCUIT CONNECTION TABLE

NORMAL PANEL	CRITICAL PANEL	LIFE SAFETY PANEL	AREA DESCRIPTION
HL21-3	HL21CR1-22	HL31LS-13	CORRIDORS
NONE	HL21CR1	NONE	OPERATING ROOMS
HL21-1	HL21CR2-21	NONE	OUTSIDE OPERATING ROOMS
HL31-9	HL31CR2-21	NONE	ANESTH/CLEAN STORAGE

SURGICAL LIGHTING CONNECTION TABLE

ISOLATED POWER PANEL	UPS PANEL	AREA DESCRIPTION
IP7B-13	LL34CR2UPS-9	O.R. 7
IP8A-13	LL34CR2UPS-7	O.R. 8
IP9B-13	LL34CR2UPS-7	O.R. 9
IP10A-13	LL34CR2UPS-7	O.R. 10



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FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0975 (440) 891-0986 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
872 GRAY HERMITAGE ROAD
BROOKVIEW NTL., OHIO 44147
TEL. (440) 546-0000
FAX: (440) 546-0000

Drawing Title: PARTIAL SECOND FLOOR LIGHTING PLAN - PHASE 2

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: 2-E2-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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 EXCEPT WHERE FEEDING PRE-WIRED FURNITURE WITH MULTI-WIRE CIRCUITS.

P4. [A] 1 SYMBOL INDICATES PANEL AND CIRCUIT IDENTIFICATION. REFER TO PANEL DESIGNATION SCHEDULE ON THIS DRAWING. CONNECT OUTLETS COMPLETE TO CIRCUIT AND PANELBOARD AS DESIGNATED. PROVIDE 3/4" MINIMUM SIZE CONCEALED CONDUIT WITH 2#12 AWG AND 1#12 GROUND PER CIRCUIT UNLESS OTHERWISE NOTED.

CODED NOTES:

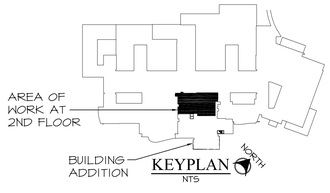
1. NURSE EQUIPMENT MANAGEMENT BOOM – FURNISHED BY OWNER, INSTALLED AND FINAL CONNECTIONS MADE BY CONTRACTOR. PROVIDE (2) JUNCTION BOXES MOUNTED ABOVE FINISHED CEILING AT LOCATION CEILING MOUNTED BOOM. PROVIDE CIRCUITS INDICATED. PROVIDE MINIMUM OF 15'-0" COILED WIRE SLACK ABOVE FINISHED CEILING.
2. ANESTHESIA BOOM – FURNISHED BY OWNER, INSTALLED AND FINAL CONNECTIONS MADE BY CONTRACTOR. PROVIDE (2) JUNCTION BOXES MOUNTED ABOVE FINISHED CEILING AT LOCATION CEILING MOUNTED BOOM. PROVIDE CIRCUITS INDICATED. PROVIDE MINIMUM OF 15'-0" COILED WIRE SLACK ABOVE FINISHED CEILING.
3. PROVIDE 240V NEMA 6-30 OUTLET IN LASER OUTLET MODULE COMPATIBLE WITH ISOLATED POWER PANEL. CONNECT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS, INCLUDING "IN USE" WARNING LIGHT. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
4. FIELD COORDINATE RECEPTACLE MOUNTING LOCATION WITH MONITOR BRACKET.
5. PROVIDE JUNCTION BOXES WITH CIRCUITS AS INDICATED. EXTEND WIRING TO NEW RECEPTACLES IN PHASE 3.
6. PROVIDE CIRCUITS TO SUPPLY POWERED FURNITURE IN PHASE 3. SEE 0-E6-3 FOR ADDITIONAL INFORMATION.
7. PROVIDE HARDWIRE CONNECTION FOR FLUSH DIGITAL CLOCK AT 8'-0" AFF. FIELD VERIFY EXACT MOUNTING LOCATION WITH COTR PRIOR TO ROUGH-IN. CONNECT RECEPTACLE TO PANEL LL21CR2 CCT #19 VIA 3/4"C – 3 #12 & #10 GROUND.
8. REFER TO DRAWING 2-E8-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR DETAILED PHASING REQUIREMENTS.
9. PROVIDE DEDICATED 120V-25A NEMA 5-30R RECEPTACLE FOR ICE MACHINE VIA 3/4"C – 2 #10 & 1 #12 GROUND. CONTRACTOR SHALL PROVIDE CORD WITH NEMA 5-30P PLUG FOR ICE MACHINE. CONTRACTOR MAY SHARE CONDUIT WITH BRANCH CIRCUITS LL21CR2-7,9.
10. MOUNT TRANSFORMER FROM WALL OR CEILING. PROVIDE ALL NECESSARY MATERIAL PER MANUFACTURERS INSTRUCTIONS.
11. NEW LOCATION FOR EXISTING PANEL XTR2 TO RESUPPLY OR 4 LASER OUTLET (60A-2P). TEST AND RECERTIFY ISOLATED POWER PANEL.
12. CONNECT EXISTING LASER OUTLET TO PANEL XTR2 VIA 3/4"C – 2 #6 & 1 #10 EG.
13. PROVIDE GROUNDING BUSBAR MOUNTED AT 7'-0" AFF. REFER TO ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION REGARDING WORK REQUIREMENTS.
14. REFER TO AUTOMATIC DOOR TYPE 1 DETAIL ON ELECTRICAL DETAILS DRAWING FOR ADDITIONAL INFORMATION REGARDING ROUGH-IN REQUIREMENTS. (TYPICAL FOR O.R. AUTODOORS).

PANEL DESIGNATIONS:

[A] 'IP#A' CRITICAL 1 ISOLATED POWER

[B] 'IP#B' CRITICAL 2 ISOLATED POWER

DESIGNATES O.R. NUMBER



PARTIAL SECOND FLOOR POWER PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 (440) 891-0506 F

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9899

Drawing Title	PARTIAL SECOND FLOOR POWER PLAN - PHASE 2
Approved: Project Director	
Project Title	SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
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Drawn By	TWM
Project Number	541-364
Building Number	
Drawing Number	2-E3-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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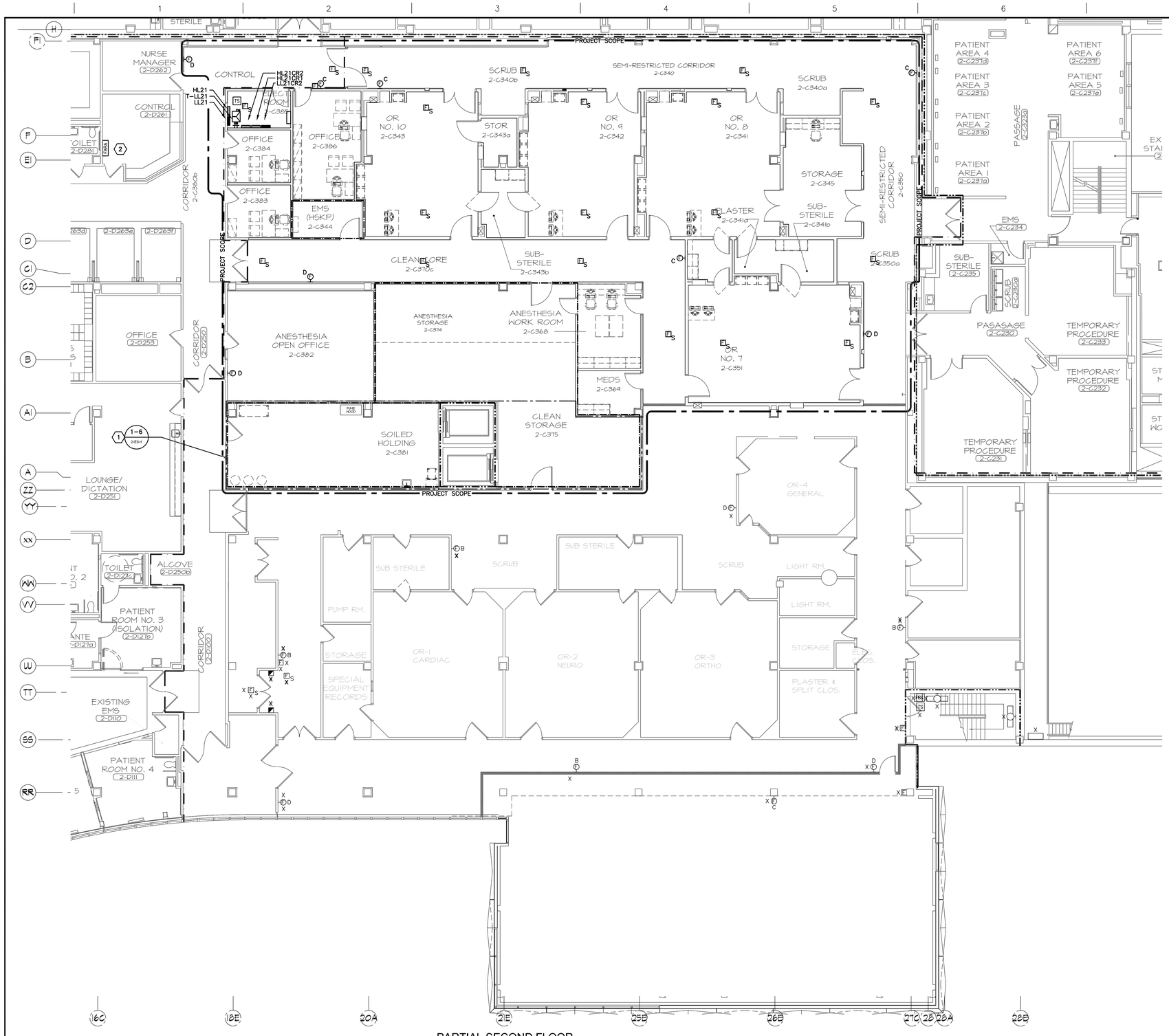


PARTIAL SECOND FLOOR
FIRE ALARM PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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.

F12. AUTOMATIC DOORS LOCATED ON A 2-HOUR FIRE RATED WALL SHALL HAVE A FIRE ALARM INTERFACE THAT INTERRUPTS 120V POWER FOR THE AUTOMATIC DOOR OPENER UNDER A FIRE ALARM CONDITION. PROVIDE (1) CONTROL MODULE FROM EACH BUILDING FIRE ALARM SYSTEM IF LOCATED ALONG ALONG THE BORDER OF TWO BUILDINGS.

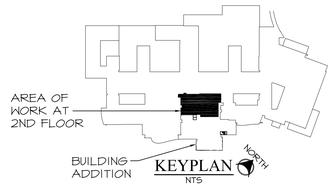
CODED NOTES:

(1) COMPLETE PHASE 2 IS SHOWN – REFER TO DRAWING 2-E8-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C–PHASE 2" FOR DETAILED PHASING REQUIREMENTS.

(2) MOUNT NEW ANNUNCIATOR IN EXISTING WALL. FIELD COORDINATE EXACT MOUNTING LOCATION WITH COTR. THE WORK AT THE NURSE STATION SHALL BE PERFORMED DURING OFF HOURS AND SCHEDULED WITH THE COTR.

LEGEND

— —	SMOKE BARRIER. 1 HR FIRE RATED CONSTRUCTION.
—·—·—	1 HR FIRE RATED CONSTRUCTION
—··—··—	2 HR FIRE RATED CONSTRUCTION



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ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0596 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-9698

Drawing Title: PARTIAL SECOND FLOOR FIRE ALARM PLAN - PHASE 2

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: 2-E4-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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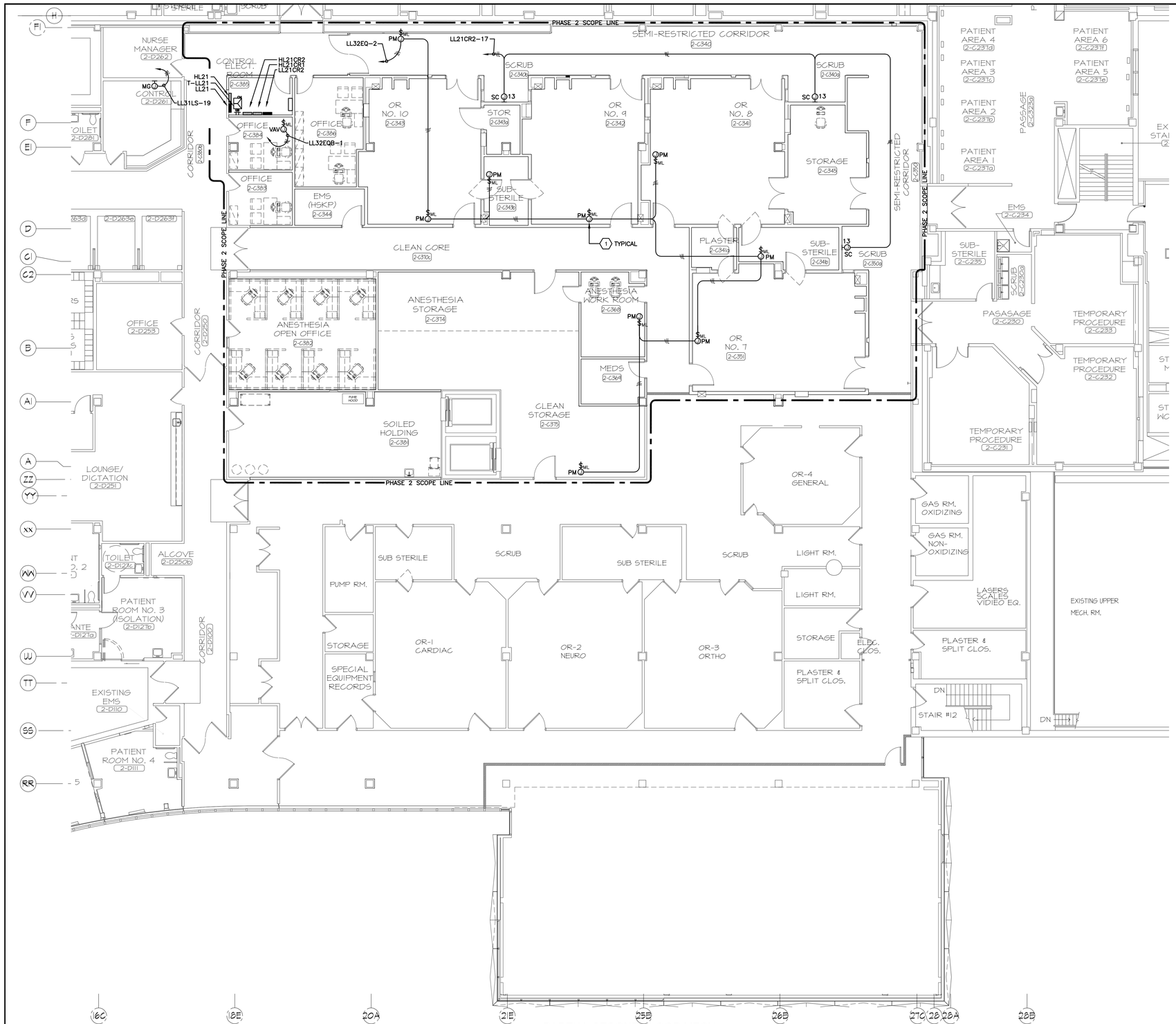


MECHANICAL EQUIPMENT GENERAL NOTES:

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. PROVIDE RIGID ALUMINUM CONDUITS AT EXTERIOR LOCATIONS. SEAL ALL ROOF PENETRATION WATER-TIGHT AND ALL WALL PENETRATIONS TO MAINTAIN FIRE RATING.

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. CONDUITS SHALL BE RIGID ALUMINUM AT EXTERIOR LOCATIONS.

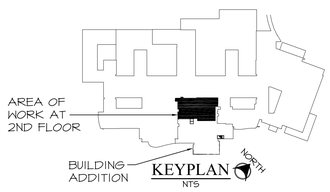
M6. SHARED NEUTRALS ARE NOT PERMITTED FOR BRANCH CIRCUITS.

M7. MAXIMUM FLEXIBLE METAL CONDUIT LENGTH FOR FINAL CONNECTION TO EQUIPMENT SHALL NOT EXCEED 6'-0".

M8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOFING WORK WITH THE GENERAL CONTRACTOR. ROOF SHALL BE REPAIRED SO AS NOT TO VOID ROOF WARRANTY.

MECH. CONNECTION PLAN CODED NOTES:

(1) CONTRACTOR SHALL VERIFY PRESSURE MONITOR CONNECTION REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. (TYPICAL)



PARTIAL SECOND FLOOR MECH. EQUIP. CONN. PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 (440) 891-0996

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX. (440) 546-9099

Drawing Title: PARTIAL SECOND FLOOR MECH. EQUIP. CONN. PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-E5-1
	Date: 03-16-12	Checked By: MPL / Drawn By: TWM	

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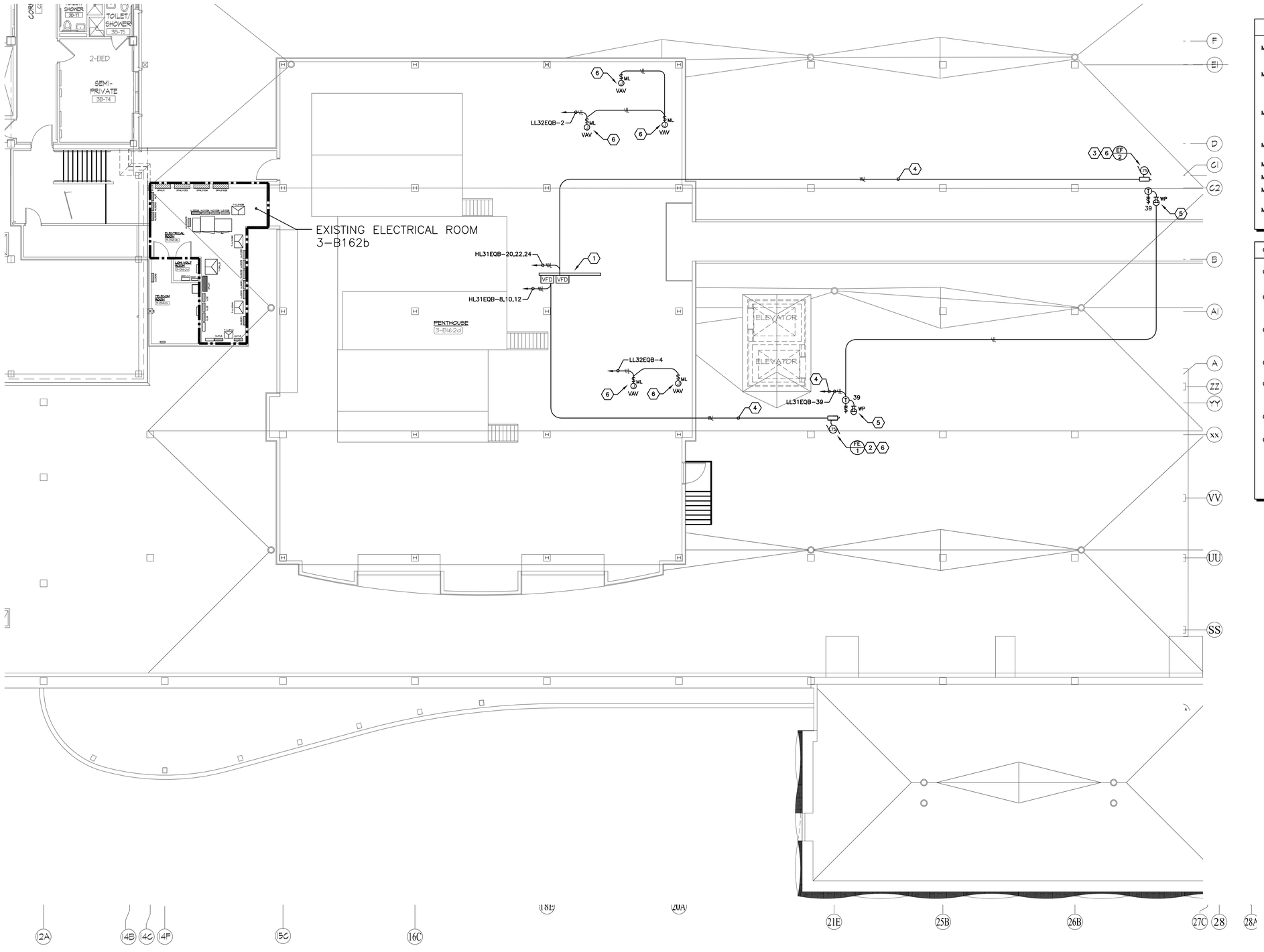

MECHANICAL EQUIPMENT GENERAL NOTES:

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. PROVIDE RIGID ALUMINUM CONDUITS AT EXTERIOR LOCATIONS. SEAL ALL ROOF PENETRATION WATER-TIGHT AND ALL WALL PENETRATIONS TO MAINTAIN FIRE RATING.

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. CONDUITS SHALL BE RIGID ALUMINUM AT EXTERIOR LOCATIONS.

M6. SHARED NEUTRALS ARE NOT PERMITTED FOR BRANCH CIRCUITS.

M7. MAXIMUM FLEXIBLE METAL CONDUIT LENGTH FOR FINAL CONNECTION TO EQUIPMENT SHALL NOT EXCEED 6'-0".

M8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ROOFING WORK WITH THE GENERAL CONTRACTOR. ROOF SHALL BE REPAIRED SO AS NOT TO VOID ROOF WARRANTY.

CODED NOTES:

(1) PROVIDE STRUT CHANNEL SUPPORT SYSTEM SOUTH OF DUCTWORK FOR MOUNTING OF NEW VFD'S AND STARTERS. STRUT CHANNEL SUPPORT SYSTEM SHALL NOT BE SUPPORTED FROM DUCTWORK. VERIFY EXACT STRUT CHANNEL SUPPORT DIMENSIONS WITH SIZE OF STARTERS IN FIELD PRIOR TO INSTALLATION.

(2) FUME EXHAUST FE-1 – 15A0CP-480V-3Ø-0.75HP. CONTRACTOR SHALL PROVIDE LOCAL HEAVY DUTY NEMA 3R DISCONNECT MOUNTED ON STRUT CHANNEL SUPPORT SYSTEM. PROVIDE A VFD AND CONNECT TO SPARE 15A-3P BREAKER ON PANEL AND CIRCUIT AS INDICATED VIA 3/4"C – 3#12 & 1#12EG.

(3) EXHAUST FAN EF-2 – 15A0CP-480V-3Ø-0.75HP. CONTRACTOR SHALL PROVIDE LOCAL HEAVY DUTY NEMA 3R DISCONNECT MOUNTED ON STRUT CHANNEL SUPPORT SYSTEM. PROVIDE A VFD AND CONNECT TO SPARE 15A-3P BREAKER ON PANEL AND CIRCUIT AS INDICATED VIA 3/4"C – 3#12 & 1#12EG.

(4) PROVIDE ROOF CONDUIT SUPPORT SYSTEM FOR ROUTING OF CONDUITS ON ROOF. SUPPORT CONDUITS EVERY 6'-0" ON CENTER AND AT EACH ELBOW.

(5) MOUNT SWITCH AND RECEPTACLE AT 30" ABOVE FINISHED ROOF SURFACE. MOUNT LIGHT FIXTURE 18" ABOVE TOP OF EQUIPMENT. MOUNT ON STRUT CHANNEL SUPPORT SYSTEM AT LOCATION THAT DOES NOT INTERFERE WITH EXHAUST FAN CLEARANCES. SEE DRAWING 3-E5-2 DETAIL 2 FOR ADDITIONAL INFORMATION.

(6) PROVIDE LIGHTNING PROTECTION AIR TERMINALS ON CENTER OF EXHAUST FANS. CONNECT TO LIGHTNING PROTECTION SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

(6) PROVIDE 500VA-120VAC:24VAC TRANSFORMER FOR EACH VAV CONNECTION POINT AND CONNECT COMPLETE. VERIFY POWER REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. FIELD COORDINATE EXACT MOUNTING LOCATION.

PARTIAL ROOF MECH. EQUIP. CONN.
PLAN – PHASE 2 (1)

SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'

FOR CONSTRUCTION

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111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 (440) 891-0596

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX: (440) 546-9099

Drawing Title	PARTIAL ROOF MECH. EQUIP. CONN. PLAN - PHASE 2
Approved: Project Director	
Project Title	SURGERY ADDITION
Location	10701 EAST BLVD, CLEVELAND, OHIO 44106
Date	03-16-12
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Drawn By	TWM
Project Number	541-364
Building Number	
Drawing Number	2-E5-2

Office of Construction and Facilities Management

Department of Veterans Affairs

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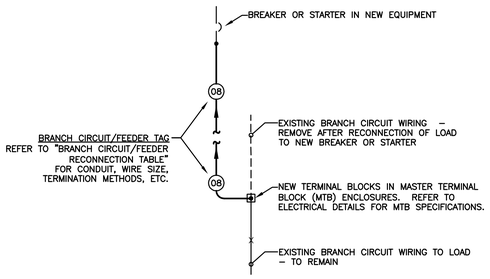
BRANCH CIRCUIT RECONNECTION DETAIL - TYPICAL



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

FULLY SPRINKLERED

Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

CONSULTANTS:

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

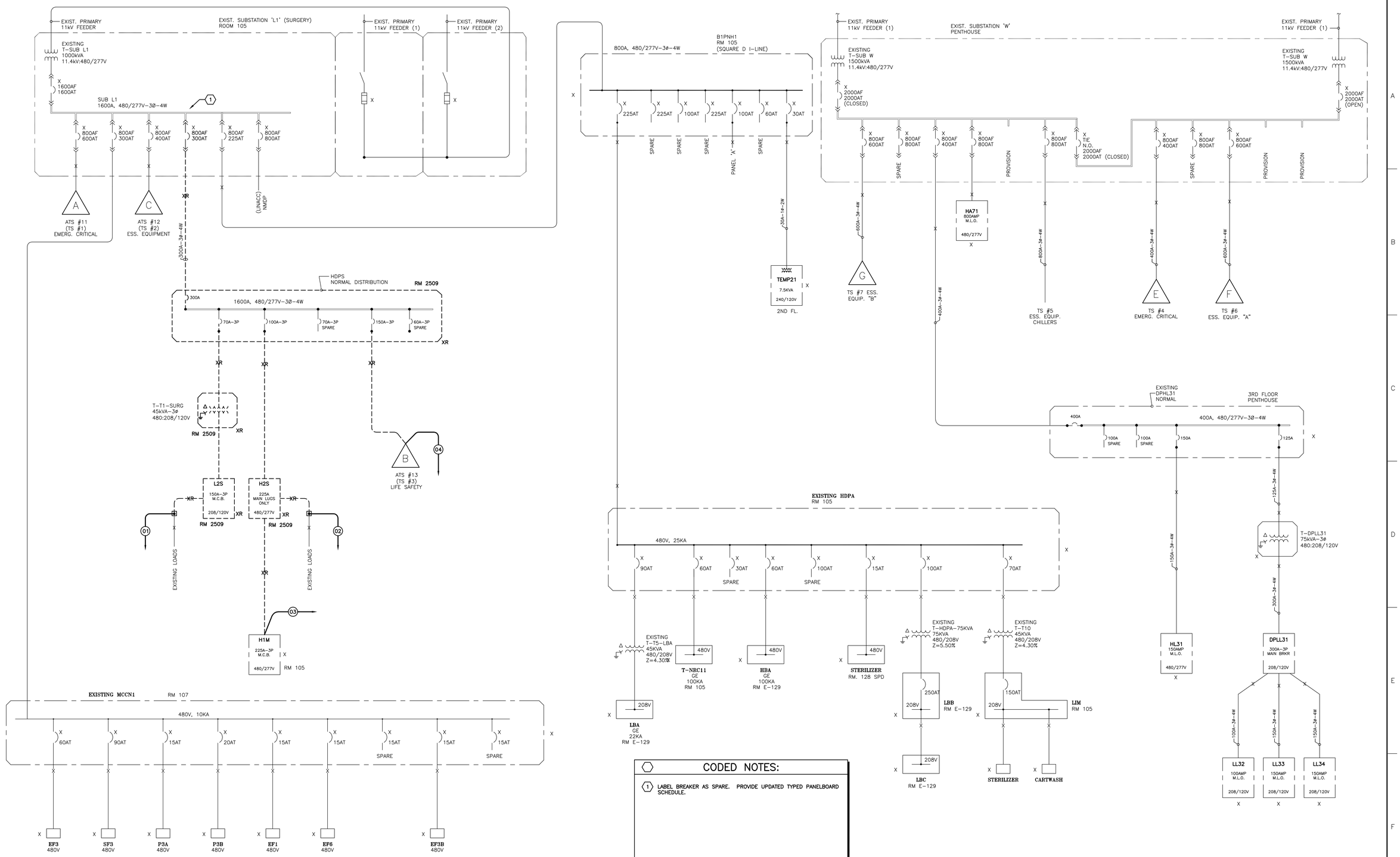
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-0899

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	2-E6-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



CODED NOTES:

1. LABEL BREAKER AS SPARE. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.

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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0900 p (440) 891-0906 f

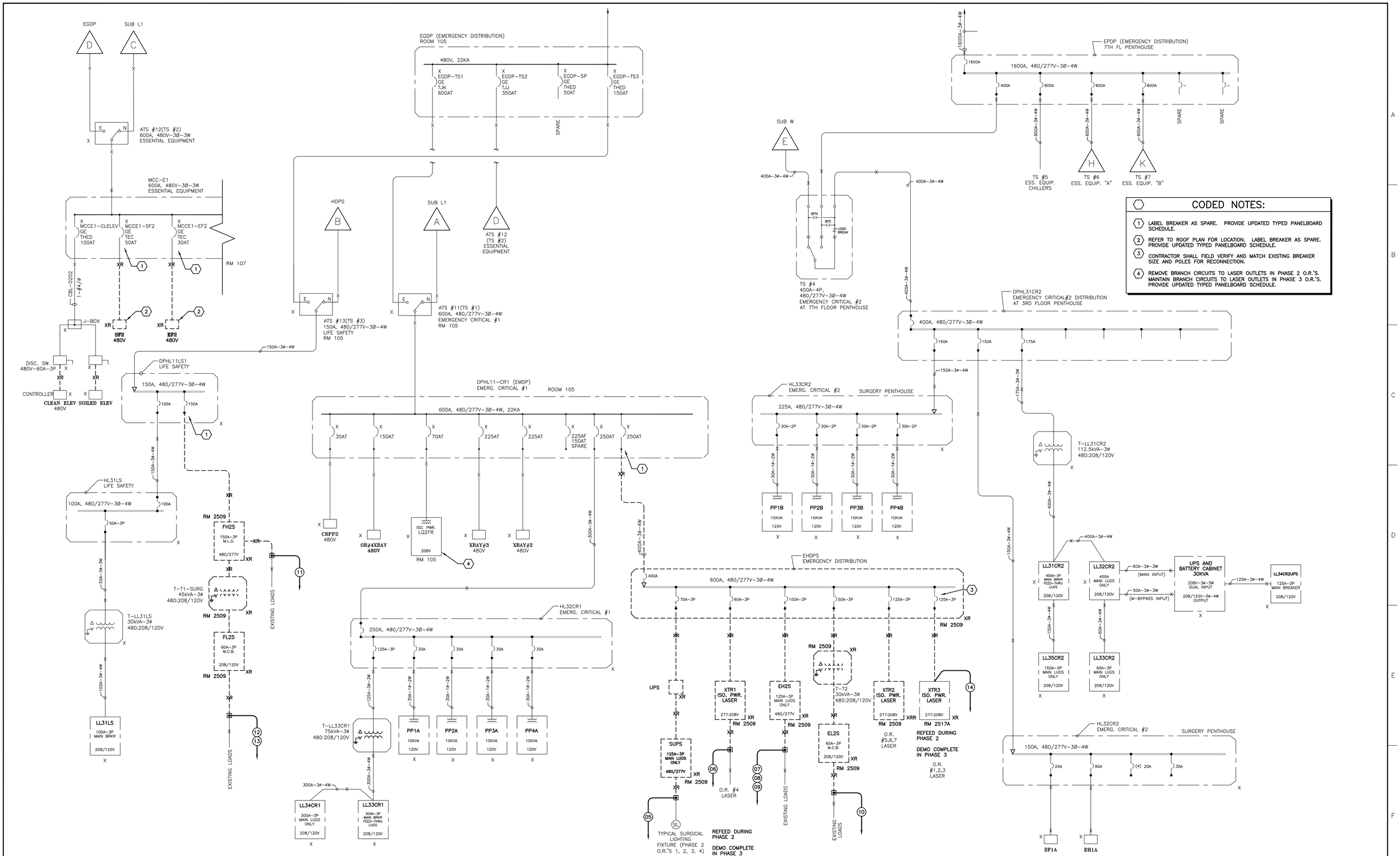
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-9699

Drawing Title: ONE-LINE DIAGRAM NORMAL DISTRIBUTION DEMOLITION - PHASE 2	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: 2-E6-2

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



CODED NOTES:

1. LABEL BREAKER AS SPARE. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.
2. REFER TO ROOF PLAN FOR LOCATION. LABEL BREAKER AS SPARE. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.
3. CONTRACTOR SHALL FIELD VERIFY AND MATCH EXISTING BREAKER SIZE AND POLES FOR RECONNECTION.
4. REMOVE BRANCH CIRCUITS TO LASER OUTLETS IN PHASE 2 O.R.'S. MAINTAIN BRANCH CIRCUITS TO LASER OUTLETS IN PHASE 3 O.R.'S. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.

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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0950 p (440) 891-0956 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-0899

Drawing Title: ONE-LINE DIAGRAM EMERGENCY DISTRIBUTION DEMOLITION - PHASE 2

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

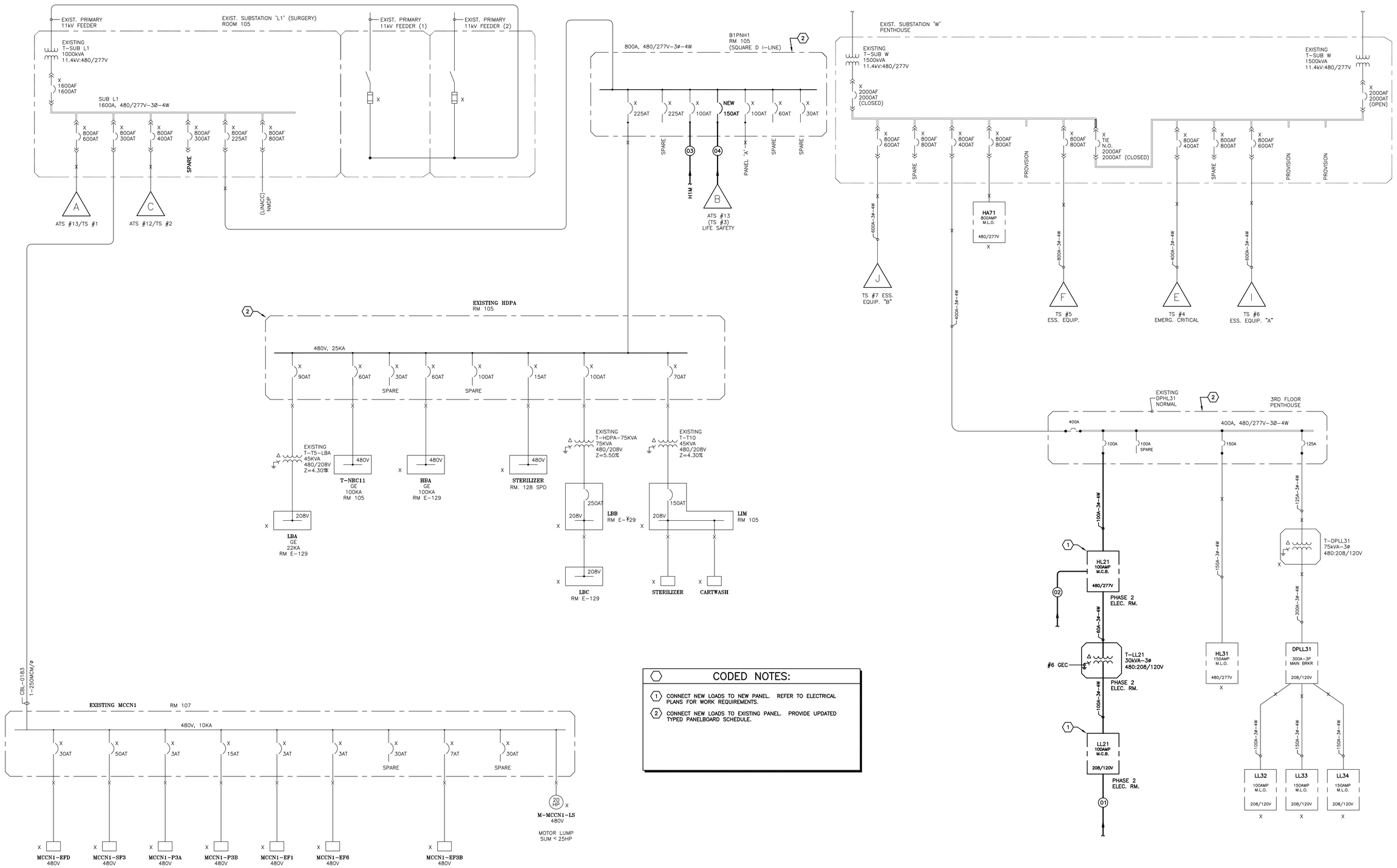
Building Number:

Drawing Number: 2-E6-3

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



CODED NOTES:

1. CONNECT NEW LOADS TO NEW PANEL. REFER TO ELECTRICAL PLANS FOR WORK REQUIREMENTS.
2. CONNECT NEW LOADS TO EXISTING PANEL. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.

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
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0900 p (440) 891-0086 f

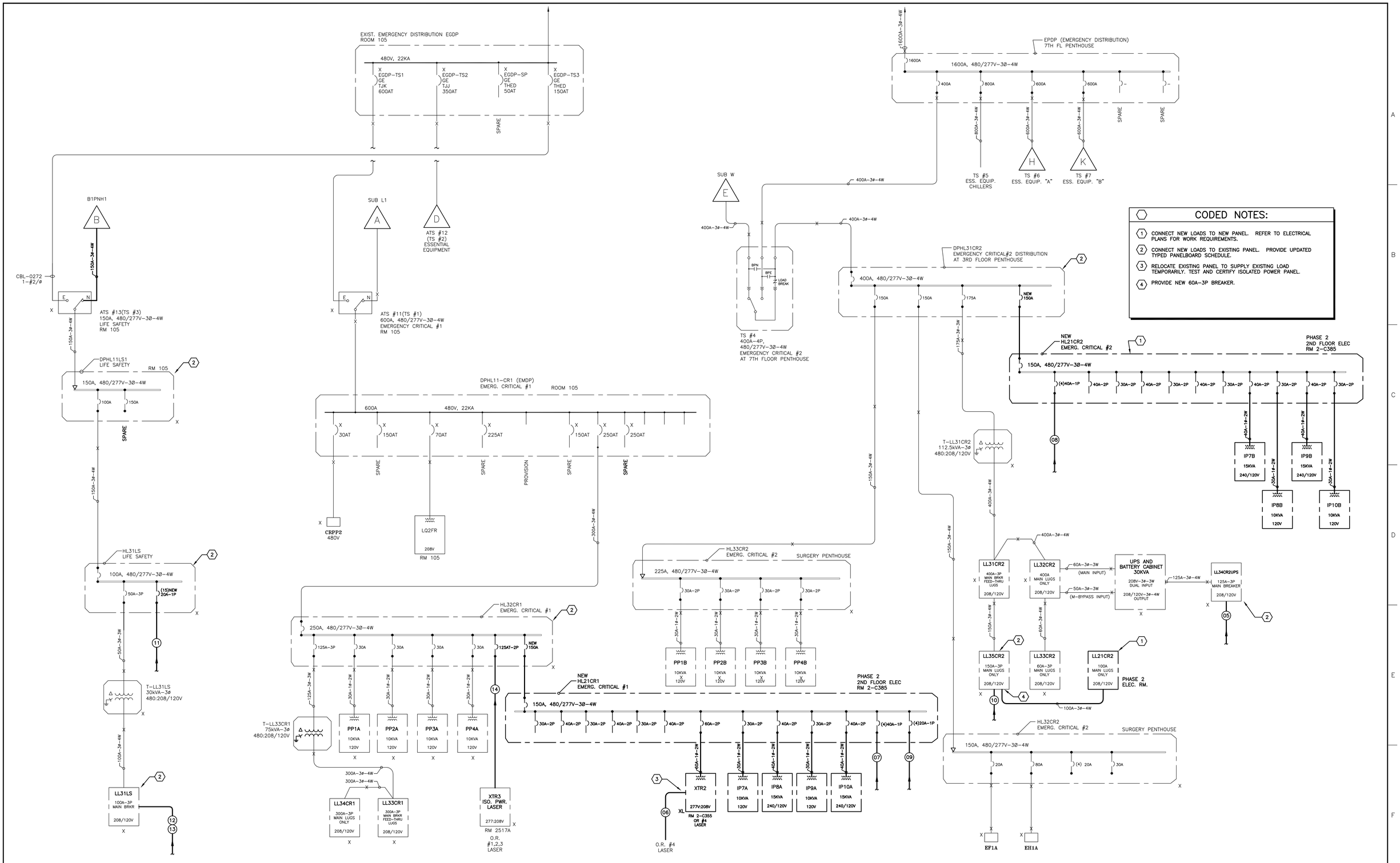
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL: (440) 546-9696
FAX: (440) 546-9699

Drawing Title	Project Title	Project Number
ONE-LINE DIAGRAM NORMAL DISTRIBUTION NEW - PHASE 2	SURGERY ADDITION	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: 2-E6-4

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



CODED NOTES:

1. CONNECT NEW LOADS TO NEW PANEL. REFER TO ELECTRICAL PLANS FOR WORK REQUIREMENTS.
2. CONNECT NEW LOADS TO EXISTING PANEL. PROVIDE UPDATED TYPED PANELBOARD SCHEDULE.
3. RELOCATE EXISTING PANEL TO SUPPLY EXISTING LOAD TEMPORARILY. TEST AND CERTIFY ISOLATED POWER PANEL.
4. PROVIDE NEW 60A-3P BREAKER.

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
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-0899

Drawing Title	ONE-LINE DIAGRAM EMERGENCY DISTRIBUTION NEW - PHASE 2
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	MPL
Drawn By	TWM
Drawing Number	2-E6-5

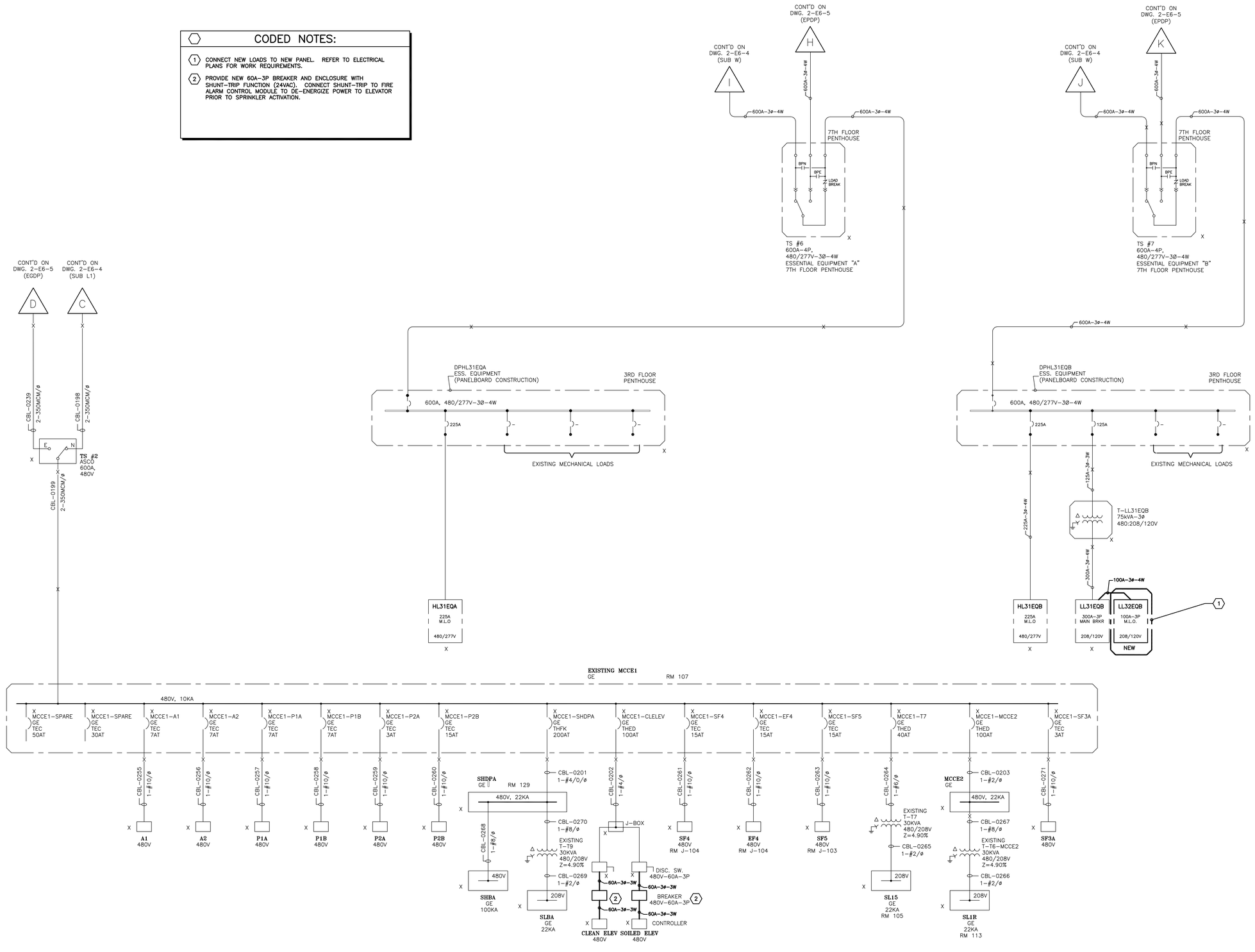
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

CODED NOTES:

1. CONNECT NEW LOADS TO NEW PANEL. REFER TO ELECTRICAL PLANS FOR WORK REQUIREMENTS.
2. PROVIDE NEW 60A-3P BREAKER AND ENCLOSURE WITH SHUNT-TRIP FUNCTION (24VAC). CONNECT SHUNT-TRIP TO FIRE ALARM CONTROL MODULE TO DE-ENERGIZE POWER TO ELEVATOR PRIOR TO SPRINKLER ACTIVATION.



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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0922 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-0899

Drawing Title	Project Title	Project Number	Office of Construction and Facilities Management
ONE-LINE DIAGRAM EMERGENCY DISTRIBUTION NEW - PHASE 2	SURGERY ADDITION	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: 2-E6-6	Department of Veterans Affairs

VA FORM 08-6231

HL21CR2 - 480/277V - 3Ø - 4W — EMERG. CRITICAL

PANEL: HL21CR2 - 480/277V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 2ND FL. ELEC. ROOM — OCP: 150A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
3.50	IP1B	40/2	1		2	30/2	IP6B	3.50
3.50			3		4			3.50
3.50	IP2B	30/2	5		6	40/2	IP7B	3.50
3.50			7		8			3.50
3.50	IP3B	40/2	9		10	30/2	IP8B	3.50
3.50			11		12			3.50
3.50	IP4B	30/2	13		14	40/2	IP9B	3.50
3.50			15		16			3.50
3.50	IP5B	40/2	17		18	30/2	IP10B	3.50
3.50			19		20			3.50
0.00	OUTSIDE PROC RMS LTG PH 2	20/1	21		22	20/1	SPARE	0.00
0.00	OUTSIDE PROC RMS LTG PH 3	20/1	23		24	20/1	SPARE	0.00
3.53	LTG O.R. 1	20/1	25		26	20/1	SPARE	0.00
3.53	LTG O.R. 2	20/1	27		28			0.00
4.24	LTG O.R. 3	20/1	29		30	30/3	PROVISION	0.00
3.36	LTG O.R. 4	20/1	31		32			0.00
3.36	LTG O.R. 5	20/1	33		34	20/1	PROVISION	0.00
2.29	LTG O.R. 6	20/1	35		36	40/1	EH2S RELOCATED LOAD	0.00
0.00	SPARE	20/1	37		38	40/1	EH2S RELOCATED LOAD	0.00
0.00	PROVISION	20/1	39		40	40/1	EH2S RELOCATED LOAD	0.00
0.00	PROVISION	20/1	41		42	40/1	EH2S RELOCATED LOAD	0.00

GROUND BUS

TOTAL CONNECTED KVA: 90.31
TOTAL DEMAND KVA: 60.31 — TOTAL DEMAND AMPS: 72.54

HL21CR1 - 480/277V - 3Ø - 4W — EMERG. CRITICAL

PANEL: HL21CR1 - 480/277V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 2ND FL. ELEC. ROOM — OCP: 150A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
3.50	IP1A	30/2	1		2	40/2	IP6A	3.50
3.50			3		4			3.50
3.50	IP2A	40/2	5		6	30/2	IP7A	3.50
3.50			7		8			3.50
3.50	IP3A	30/2	9		10	40/2	IP8A	3.50
3.50			11		12			3.50
3.50	IP4A	40/2	13		14	30/2	IP9A	3.50
3.50			15		16			3.50
3.50	IP5A	30/2	17		18	40/2	IP10A	3.50
3.50			19		20			3.50
0.00	SPARE	20/1	21		22	20/1	CORRIDOR LTG	0.00
0.00	SPARE	20/1	23		24	20/1	LTG O.R. 10	2.74
0.00	PROVISION	20/1	25		26	20/1	LTG O.R. 9	2.74
0.00	PROVISION	20/1	27		28	20/1	LTG O.R. 8	2.74
0.00	PROVISION	20/1	29		30	20/1	LTG O.R. 7	2.92
0.00	PROVISION	20/1	31		32	20/1	LCP21	0.00
0.00	PROVISION	20/1	33		34	20/1	SPARE	0.00
0.00	EH2S RELOCATED LOAD	40/1	35		36	20/1	EH2S RELOCATED LOAD	0.00
0.00	EH2S RELOCATED LOAD	40/1	37		38	20/1	EH2S RELOCATED LOAD	0.00
0.00	EH2S RELOCATED LOAD	40/1	39		40	20/1	EH2S RELOCATED LOAD	0.00
0.00	EH2S RELOCATED LOAD	40/1	41		42	20/1	EH2S RELOCATED LOAD	0.00

GROUND BUS

TOTAL CONNECTED KVA: 81.14
TOTAL DEMAND KVA: 51.14 — TOTAL DEMAND AMPS: 61.51

HL32CR1 - 480/277V - 3Ø - 4W — EMERG. CRITICAL

PANEL: HL32CR1 - 480/277V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 3RD FL. PENTHOUSE ELEC. RM. — OCP: 250A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: EXISTING PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.00	EXISTING PP1A	30/2	1		2	30/2	EXISTING PP2A	0.00
0.00			3		4			0.00
0.00	EXISTING PP3A	30/2	5		6	30/2	EXISTING PP4A	0.00
0.00			7		8			0.00
0.00	SPARE	20/1	9		10			0.00
0.00	SPARE	20/1	11		12	70/3	EXISTING T-LL33CR1	0.00
0.00	SPARE	20/1	13		14			0.00
0.00	SPARE	20/1	15		16	20/1	LIGHTING 2-C381, 2-C375	0.00
0.00	SPARE	20/1	17		18	20/1	SPARE	0.00
0.00	SPARE	20/1	19		20	20/1	SPARE	0.00
0.00	PROVISION	20/1	21		22	20/1	PROVISION	0.00
0.00	PROVISION	20/1	23		24	20/1	PROVISION	0.00
0.00	PROVISION	20/1	25		26	20/1	PROVISION	0.00
0.00	PROVISION	20/1	27		28	20/1	PROVISION	0.00
0.00	PROVISION	20/1	29		30	20/1	PROVISION	0.00
0.00	PROVISION	20/1	31		32			0.00
0.00	PROVISION	20/1	33		34	125/3	RELOCATED XTR3	0.00
0.00	PROVISION	20/1	35		36			0.00
0.00	PROVISION	20/1	37		38			30.74
0.00	PROVISION	20/1	39		40	150/3	NEW HL22CR1	23.74
0.00	PROVISION	20/1	41		42			26.66

GROUND BUS

TOTAL CONNECTED KVA: 81.14
TOTAL DEMAND KVA: 81.14 — TOTAL DEMAND AMPS: 97.60

LL34CR2UPS - 208/120V - 3Ø - 4W — EMERG. CRITICAL

PANEL: LL34CR2UPS - 208/120V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 3RD FL. PENTHOUSE ELEC. ROOM — OCP: 125A
MOUNTING: SURFACE — MAIN: M.C.B.
COMMENTS: EXISTING PANEL - FED FROM 30KVA UPS

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.70	EXISTING LOAD	20/1	1		2	20/1	EXISTING LOAD	0.70
0.70	EXISTING LOAD	20/1	3		4	20/1	O.R. 6 SURG LTG	0.00
0.70	EXISTING LOAD	20/1	5		6	20/1	O.R. 5 SURG LTG	0.00
1.00	O.R. 8,9,10 SURG LTG	20/1	7		8	20/1	O.R. 4 SURG LTG	0.00
1.70	O.R.5,6,7 SURG LTG	20/1	9		10	20/1	O.R. 3 SURG LTG	0.00
0.00	O.R. 3,4 SURG LTG	20/1	11		12	20/1	O.R. 2 SURG LTG	0.00
0.00	O.R. 1,2 SURG LTG	20/1	13		14	20/1	O.R. 1 SURG LTG	0.00
0.00	SPARE	20/1	15		16	20/1	SPARE	0.00
0.00	SPARE	20/1	17		18	20/1	SPARE	0.00
0.00	SPARE	20/1	19		20	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	21		22	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	23		24	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	25		26	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	27		28	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	29		30	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	31		32	20/1	SUPS RELOCATED LOAD	0.00
0.00	PROVISION	-	33		34	-	PROVISION	0.00
0.00	PROVISION	-	35		36	-	PROVISION	0.00
0.00	PROVISION	-	37		38	-	PROVISION	0.00
0.00	PROVISION	-	39		40	-	PROVISION	0.00
0.00	PROVISION	-	41		42	-	PROVISION	0.00

GROUND BUS

TOTAL CONNECTED KVA: 5.50
TOTAL DEMAND KVA: 5.50 — TOTAL DEMAND AMPS: 15.27

LL21CR2 - 208/120V - 3Ø - 4W — EMERG. CRITICAL

PANEL: LL21CR2 - 208/120V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 2ND FL. ELEC. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.00	REC. SUB STERILE, STG	20/1	1		2	20/1	SPARE	0.00
0.00	BLANKET WARMER	20/1	3		4	20/1	SPARE	0.00
0.00	ICE MACHINE	25/1	5		6	20/1	SPARE	0.00
0.00	REC. STG, SS	20/1	7		8	20/1	SPARE	0.00
0.00	REC. STG, SS	20/1	9		10	20/1	SPARE	0.00
0.00	REC. STG, ANES WK, MEDS	20/1	11		12	20/1	SPARE	0.00
0.00	REC. STG, ANES WK, MEDS	20/1	13		14	20/1	SPARE	0.00
0.00	REC. FUME HOOD, NEPTUNE	20/1	15		16	20/1	SPARE	0.00
0.00	SINK CONTROLS	20/1	17		18	20/1	SPARE	0.00
0.00	REC O.R. DIG CLOCKS	20/1	19		20	20/1	SPARE	0.00
0.00	SPARE	20/1	21		22	20/1	SPARE	0.00
0.00	SPARE	20/1	23		24	20/1	SPARE	0.00

GROUND BUS

TOTAL CONNECTED KVA: 0.00
TOTAL DEMAND KVA: 0.00 — TOTAL DEMAND AMPS: 0.00

HL21 - 480/277V - 3Ø - 4W — NORMAL

PANEL: HL21 - 480/277V - 3Ø - 4W — NORMAL
LOCATION: 2ND FL. ELEC. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.00	LIGHTING ROOMS PH2	20/1	1		2	20/1	RELOCATED CIRCUIT	0.00
0.00	LIGHTING CORRIDORS PH2	20/1	3		4	20/1	RELOCATED CIRCUIT	0.00
0.00	LIGHTING ROOMS PH3	20/1	5		6	20/1	RELOCATED CIRCUIT	0.00
0.00	LCP21	20/1	7		8	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	9		10	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	11		12	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	13		14	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	15		16	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	17		18	20/1	RELOCATED CIRCUIT	0.00
0.00	SPARE	20/1	19		20	20/1	SPARE	0.00
0.00	SPARE	20/1	21		22	20/1	SPARE	0.00
0.00	SPARE	20/1	23		24	20/1	PROVISION	0.00
0.00			25		26	20/1	PROVISION	0.00
0.00	T-LL21	45/3	27		28	20/1	PROVISION	0.00
0.00			29		30	20/1	PROVISION	0.00

GROUND BUS

TOTAL CONNECTED KVA: 0.00
TOTAL DEMAND KVA: 0.00 — TOTAL DEMAND AMPS: 0.00

HL31LS - 480/277V - 3Ø - 4W — LIFE SAFETY

PANEL: HL31LS - 480/277V - 3Ø - 4W — LIFE SAFETY
LOCATION: 3RD FL. PENTHOUSE ELECT. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.C.B.
COMMENTS: EXISTING PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.20	EXISTING LOAD	20/1	1		2	20/1	EXISTING LOAD	0.70
1.50	EXISTING LOAD	20/1	3		4	20/1	EXISTING LOAD	0.20
0.00	SPARE	20/1	5		6	20/1	FH2S RELOCATED LOAD	0.00
4.71			7		8	20/1	FH2S RELOCATED LOAD	0.00
4.71	EXISTING T-LL31LS	50/3	9		10	20/1	FH2S RELOCATED LOAD	0.00
4.71			11		12	20/1	FH2S RELOCATED LOAD	0.00
0.00	CORRIDOR LTG	20/1	13		14	20/1	FH2S RELOCATED LOAD	0.00
0.00	FH2S RELOCATED LOAD	20/1	15		16	20/1	FH2S RELOCATED LOAD	0.00
0.00	FH2S RELOCATED LOAD	20/1	17		18	20/1	FH2S RELOCATED LOAD	0.00
0.00	FH2S RELOCATED LOAD	20/1	19		20	20/1	SPARE	0.00
0.00	FH2S RELOCATED LOAD	20/1	21		22	20/1	SPARE	0.00
0.00	FH2S RELOCATED LOAD	20/1	23		24	20/1	SPARE	0.00
0.00	FH2S RELOCATED LOAD	20/1	25		26	20/1	SPARE	0.00
0.00	FH2S RELOCATED LOAD	20/1	27		28	40/2	ELEV. CAB. LOAD CTR.	0.00
0.00	FH2S RELOCATED LOAD	20/1	29		30			0.00

GROUND BUS

TOTAL CONNECTED KVA: 16.72
TOTAL DEMAND KVA: 16.72 — TOTAL DEMAND AMPS: 20.11

LL31LS - 208/120V - 3Ø - 4W — LIFE SAFETY

PANEL: LL31LS - 208/120V - 3Ø - 4W — LIFE SAFETY
LOCATION: 3RD FL. PENTHOUSE ELECT. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.C.B.
COMMENTS: EXISTING PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.00	SPARE	20/1	1		2	20/1	EXISTING LOAD	1.00
0.40	EXISTING LOAD	20/1	3		4	20/1	EXISTING LOAD	1.00
1.00	EXISTING LOAD	20/1	5		6	20/1	EXISTING SECURITY PANEL	0.50
0.50	EXISTING NCTC	20/1	7		8	20/1	EXISTING LOAD	0.36
0.50	EX. TELE EQUIP. CABINET	20/1	9		10	20/1	EX. MED GAS ALARM - CNTRL	0.36
0.40	EX. AHU-1 SMOKE DAMPERS	20/1	11		12	20/1	AUTOMATIC DOORS PH 2	1.20
0.40	EX. AHU-2 SMOKE DAMPERS	20/1	13		14	20/1	AUTOMATIC DOORS PH 2	0.60
0.40	EX. AHU-3 SMOKE DAMPERS	20/1	15		16	20/1	AUTOMATIC DOORS PH 2	1.20
0.50	EXISTING NACX 3.1	20/1	17		18	20/1	AUTOMATIC DOORS PH 3	1.20
0.20	CNTRL RM MED GAS PNL	20/1	19		20	20/1	AUTOMATIC DOORS PH 3	1.20
	FL2S RELOCATED LOAD	20/1	21		22	20/1	AUTOMATIC DOORS PH 3	1.20
	FL2S RELOCATED LOAD	20/1	23		24	20/1	FL2S RELOCATED LOAD	
	ELEVATOR SHUNT TRIP	20/1	25		26	20/1	FL2S RELOCATED LOAD	
	FL2S RELOCATED LOAD	20/1	27		28	20/1	FL2S RELOCATED LOAD	
	SPARE	20/1	29		30	20/1	FL2S RELOCATED LOAD	

GROUND BUS

TOTAL CONNECTED KVA: 14.12
TOTAL DEMAND KVA: 14.12 — TOTAL DEMAND AMPS: 39.19

LL35CR2 - 208/120V - 3Ø - 4W — EMERG. CRITICAL

PANEL: LL35CR2 - 208/120V - 3Ø - 4W — EMERG. CRITICAL
LOCATION: 3RD FL. PENTHOUSE TELE/COMM RM. — OCP: 150A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: EXISTING PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.00	EL2S RELOCATED LOAD	20/1	1		2	20/2	EL2S RELOCATED LOAD	0.00
0.00	EL2S RELOCATED LOAD	20/1	3		4			0.00
0.00	EL2S RELOCATED LOAD	20/1	5		6	50/2	EL2S RELOCATED LOAD	0.00
0.00	EL2S RELOCATED LOAD	20/1	7		8			0.00
0.00	EL2S RELOCATED LOAD	20/1	9		10			0.00
0.00	EL2S RELOCATED LOAD	20/1	11		12	60/3	LL21CR2	0.00
0.00	EL2S RELOCATED LOAD	20/1	13		14			0.00
0.00	EL2S RELOCATED LOAD	20/1	15		16	20/1	SPARE	0.00
0.00	EL2S RELOCATED LOAD	20/1	17		18	20/1	SPARE	0.00
0.00	EL2S RELOCATED LOAD	20/1	19		20	20/1	SPARE	0.00
0.00	EL2S RELOCATED LOAD	20/1	21		22	20/1	SPARE	0.00
0.00	EL2S RELOCATED LOAD	20/1	23		24	20/1	SPARE	0.00
0.00	EL2S RELOCATED LOAD	20/1	25		26	20/1	SPARE	0.00
0.00	PUBLIC ADDRESS DISTRIBUTION	20/1	27		28	20/1	SPARE	0.00
0.00	SPARE	20/1	29		30	20/1	SPARE	0.00
0.00	SPARE	20/1	31		32	20/1	SPARE	0.00
0.00	SPARE	20/1	33		34	20/1	SPARE	0.00
0.00	SPARE	20/1	35		36	20/1	SPARE	0.00
0.00	SPARE	20/1	37		38	20/1	SPARE	0.00
0.00	SPARE	20/1	39		40	20/1	SPARE	0.00
0.00	SPARE	20/1	41		42	20/1	SPARE	0.00

GROUND BUS

TOTAL CONNECTED KVA: 0.00
TOTAL DEMAND KVA: 0.00 — TOTAL DEMAND AMPS: 0.00

LL21 - 208/120V - 3Ø - 4W — NORMAL

PANEL: LL21 - 208/120V - 3Ø - 4W — NORMAL
LOCATION: 2ND FL. ELEC. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.C.B.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
	RELOCATED CIRCUIT	20/1	1		2	20/1	OFFICE	1.00
	RELOCATED CIRCUIT	20/1	3		4	20/1	OFFICE	1.00
	RELOCATED CIRCUIT	20/1	5		6	20/1	OFFICE	1.20
	RELOCATED CIRCUIT	20/1	7		8	20/1	OFFICE	1.20
	RELOCATED CIRCUIT	20/1	9		10	20/1	OR 8/10 ST, PLA, WRM, MEDS	1.00
	RELOCATED CIRCUIT	20/1	11		12	20/1	OR 8/10 STG, ANS WK, MEDS	1.00
	RELOCATED CIRCUIT	20/1	13		14	20/1	OR 8 STG, PLST, ANS WKR	0.60
	RELOCATED CIRCUIT	20/1	15		16	20/1	ANEST/CLN STG, SOIL HLDG	1.40
	RELOCATED CIRCUIT	20/1	17		18	20/1	ANEST/CLN STG, SOIL HLDG	1.20
	RELOCATED CIRCUIT	20/1	19		20	20/1	ANESTHESIA OPEN OFF	0.00
	RELOCATED CIRCUIT	20/1	21		22	20/1	ANESTHESIA OPEN OFF	0.00
	RELOCATED CIRCUIT	20/1	23		24	20/1	ANESTHESIA OPEN OFF	0.40
	RELOCATED CIRCUIT	20/1	25		26	20/1	ANESTHESIA OPEN OFF	0.00
	RELOCATED CIRCUIT	20/1	27		28	20/1	ANESTHESIA OPEN OFF	0.00
	RELOCATED CIRCUIT	20/1	29		30	20/1	CLEAN CORRIDOR	0.80
	RELOCATED CIRCUIT	20/1	31		32	20/1	CLEAN CORRIDOR	0.80
	RELOCATED CIRCUIT	20/1	33		34		ANESTHESIA OPEN OFF	1.00
	RELOCATED CIRCUIT	20/1	35		36	20/3	ANESTHESIA OPEN OFF	1.00
	RELOCATED CIRCUIT	20/1	37		38		ANESTHESIA OPEN OFF	1.00
	RELOCATED CIRCUIT	20/1	39		40	20/1	ANESTHESIA OPEN OFF	1.00
	SPARE	20/1	41		42	20/1	SPARE	0.00

GROUND BUS

TOTAL CONNECTED KVA: 15.60
TOTAL DEMAND KVA: 12.80 — TOTAL DEMAND AMPS: 35.53

HL31EQB - 480/277V - 3Ø - 4W — ESSENTIAL EQ.

PANEL: HL31EQB - 480/277V - 3Ø - 4W — ESSENTIAL EQ.
LOCATION: 3RD FLOOR PENTHOUSE ELEC. ROOM — OCP: 225A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: EXISTING PANELBOARD — MIN. AIC RATING: 22K

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
3.87			1		2			3.03
3.87	EXISTING AHU1-RAF2.	25/3	3		4	20/3	EXISTING AHU3-RAF2	3.03
3.87			5		6			3.03
0.57			7		8			0.00
0.57	EXISTING EF-1	15/3	9		10	15/3	FE-1	0.00
0.57			11		12			0.00
0.83			13		14			0.83
0.83	EXISTING EF-4B	15/3	15		16	20/3	EXISTING EF-6	0.83
0.83			17		18			0.83
2.10			19		20			0.00
2.10	EXISTING P-2B	20/3	21		22	15/3	EF-2	0.00
2.10			23		24			0.00
2.80	EXIST. PENTHOUSE LIGHTING	20/1	25		26			0.31
0.00	LIEB. OR 4	20/1	27		28	15/3	EXISTING VERTICAL LIFT	0.31
0.00	LIEB. IRM	20/1	29		30			0.31
0.83			31		32			0.00
0.83	EF-5	15/3	33		34	20/3	NEW BKR LIEB. HYB OR 4	0.00
0.83			35		36			0.00
0.83			37		38			6.00
0.83	EF-3	15/3	39		40	30/3	RTU-1	6.00
0.83			41		42			6.00

GROUND BUS

TOTAL CONNECTED KVA: 60.40
TOTAL DEMAND KVA: 60.40 — TOTAL DEMAND AMPS: 72.65

LL32EQB - 208/120V - 3Ø - 4W — ESSENTIAL EQ.

PANEL: LL32EQB - 208/120V - 3Ø - 4W — ESSENTIAL EQ.
LOCATION: 3RD FLOOR PENTHOUSE ELEC. ROOM — OCP: 100A
MOUNTING: SURFACE — MAIN: M.L.O.
COMMENTS: NEW PANEL

KVA:	DESCRIPTION:	CB:	CCT:	N	CCT:	CB:	DESCRIPTION:	KVA:
0.50	VAV SURG NORTH	20/1	1		2	20/1	VAV PENTHOUSE SURG	0.50
0.50	VAV SURG SOUTH	20/1	3		4	20/1	VAV PENTHOUSE SURG	0.50
0.00	EF-4	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
0.00	PROVISION	20/1	11		12	20/1	PROVISION	0.00
0.00	PROVISION	20/1	13		14	20/1	PROVISION	0.00
0.00	PROVISION	20/1	15		16	20/1	PROVISION	0.00
0.00	PROVISION	20/1	17		18	20/1	PROVISION	0.00
0.00	PROVISION	20/1	19		20	20/1	PROVISION	0.00
0.00	PROVISION	20/1	21		22	20/1	PROVISION	0.00
0.00	PROVISION	20/1	23		24	20/1	PROVISION	0.00
0.00	PROVISION	20/1	25		26	20/1	PROVISION	0.00
0.00	PROVISION	20/1	27		28	20/1	PROVISION	0.00
0.00	PROVISION	20/1	29		30	20/1	PROVISION	0.00
0.00			31		32			0.00
0.00	PROVISION	30/3	33		34	30/3	PROVISION	0.00
0.00			35		36			0.00
0.00			37		38			0.00
0.00	PROVISION	30/3	39		40	30/3	PROVISION	0.00
0.00			41		42			0.00

20/1 — GROUND BUS

TOTAL CONNECTED KVA: 2.00
TOTAL DEMAND KVA: 2.00 — TOTAL DEMAND AMPS: 5.55

CODED NOTES:

1. CONNECT LOAD TO NEW BREAKER IN EXISTING PANEL. PROVIDE NEW BREAKER AS SPECIFIED.
2. CONNECT LOAD TO EXISTING BREAKER IN EXISTING PANEL.
3. PHASE 3 LOAD.
4. PROVIDE NEW BREAKER.

FOR CONSTRUCTION

FULLY SPRINKLERED

Revisions:	Date
FINAL BID DOCUMENTS	03-16-12

CONSULTANTS:

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-0899

Drawing Title: POWER DISTRIBUTION PANELBOARD SCHEDULES - SHEET 1 OF 3

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: 2-E7-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

SURGERY PANEL SCHEDULE DETAILS

NAME	PRIMARY VOLTAGE	TRANSFORMER	SECONDARY VOLTAGE	LIM	REMOTE LIM	PRI. MAIN BREAKER	MAIN BREAKER AIC RATING	BRANCH CIRCUIT BREAKERS 15A–2P	20A–2P	30A–2P	MOUNTING	GROUND BUS	DIMENSIONS
IP7A	480V	10KVA	120V	DIGITAL METER	YES	30A–2P	14,000AIC	0	16	0	FLUSH	(24) #12–#6 TERMINATIONS	60"Hx25"Wx10"D
IP8B	480V	10KVA	120V	DIGITAL METER	YES	30A–2P	14,000AIC	0	16	0	FLUSH	(24) #12–#6 TERMINATIONS	60"Hx25"Wx10"D
IP9A	480V	10KVA	120V	DIGITAL METER	YES	30A–2P	14,000AIC	0	16	0	FLUSH	(24) #12–#6 TERMINATIONS	60"Hx25"Wx10"D
IP10B	480V	10KVA	120V	DIGITAL METER	YES	30A–2P	14,000AIC	0	16	0	FLUSH	(24) #12–#6 TERMINATIONS	60"Hx25"Wx10"D

NAME	PRIMARY VOLTAGE	TRANSFORMER	SECONDARY VOLTAGE	LIM	REMOTE LIM	PRI. MAIN BREAKER	MAIN BREAKER AIC RATING	120V BR. CIR. BREAKERS 15A–2P	20A–2P	30A–2P	240V BR. CIR. BRKS 20A–2P	30A–2P	MOUNTING	GROUND BUS	DIMENSIONS
IP7B	480V	15KVA	240/120V	DIGITAL METER	YES	40A–2P	14,000AIC	0	16	0	0	1	FLUSH	(24) #12–#6 TERMINATIONS	70"Hx30"Wx12"D
IP8A	480V	15KVA	240/120V	DIGITAL METER	YES	40A–2P	14,000AIC	0	16	0	0	1	FLUSH	(24) #12–#6 TERMINATIONS	70"Hx30"Wx12"D
IP9B	480V	15KVA	240/120V	DIGITAL METER	YES	40A–2P	14,000AIC	0	16	0	0	1	FLUSH	(24) #12–#6 TERMINATIONS	70"Hx30"Wx12"D
IP10A	480V	15KVA	240/120V	DIGITAL METER	YES	40A–2P	14,000AIC	0	16	0	0	1	FLUSH	(24) #12–#6 TERMINATIONS	70"Hx30"Wx12"D

ISOLATED POWER PANEL SCHEDULE NOTES:

1. LINE ISOLATION MONITOR (LIM) SHALL HAVE DIGITAL READOUT FOR TOTAL HAZARD CURRENT (THC), ALARM LIGHT AND BUZZER WHEN THC EXCEEDS 5mA, SELF–TEST, AND SELF–CALIBRATION. THE LIMS SHALL BE FLUSH MOUNTED ON THE FRONT OF THE PANEL SO THAT THE LIM SIGNALS ARE CLEARLY VISIBLE AT ALL TIMES. THE LIM SIGNALS MUST NOT BE OBSCURED WHEN THE CIRCUIT BREAKER DOOR IS OPEN. THE LIM SHALL BE RECOGNIZED UNDER UL STANDARD 1022.
2. REFER TO SPECIFICATIONS SECTION 26 05 21 FOR ADDITIONAL INFORMATION.
3. PROVIDE ALL COMPONENTS (LASER OUTLET BOX, PLUG CONTROL SWITCH AND RELAY BOX FOR WARNING LIGHT CONTROL) COMPATIBLE WITH ISOLATED POWER PANEL SYSTEM FOR EACH DUAL VOLTAGE 240/120V PANEL. REFER TO LASER OUTLET AND WARNING LIGHT CONNECTION DIAGRAM FOR ADDITIONAL INFORMATION.

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0596 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX: (440) 546-0899

Drawing Title: POWER DISTRIBUTION PANELBOARD SCHEDULES - SHEET 2 OF 3

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: 2-E7-2

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08–6231

PANEL: **IP7A - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL A**

LOCATION: OR NO. 7 OCP: 30A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.40	NURSE MANAGER BOOM	20/2	1	2	20/2	A/V RACK	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	3	4	20/2	REC. PATIENT HEAD	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	5	6	20/2	REC. PATIENT LEFT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	7	8	20/2	REC. PATIENT FOOT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	9	10	20/2	REC. NURSE STATION	0.20
0.40							0.20
0.30	WALL MONITORS	20/2	11	12	20/2	REC. PATIENT RIGHT	0.20
0.30							0.20
0.00	SPARE	20/2	13	14	20/2	SPARE	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP7B - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL B**

LOCATION: OR NO. 7 OCP: 40A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.20	A/V RACK	20/2	1	2	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT HEAD	20/2	3	4	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT LEFT	20/2	5	6	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT FOOT	20/2	7	8	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. NURSE STATION	20/2	9	10	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. PATIENT RIGHT	20/2	11	12	20/2	BOOM MONITORS	0.30
0.20							0.30
0.00	SPARE	20/2	13	14	20/2	SURGICAL LTG	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP8A - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL A**

LOCATION: OR NO. 8 OCP: 40A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.40	NURSE MANAGER BOOM	20/2	1	2	20/2	A/V RACK	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	3	4	20/2	REC. PATIENT HEAD	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	5	6	20/2	REC. PATIENT LEFT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	7	8	20/2	REC. PATIENT FOOT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	9	10	20/2	REC. NURSE STATION	0.20
0.40							0.20
0.30	WALL MONITORS	20/2	11	12	20/2	REC. PATIENT RIGHT	0.20
0.30							0.20
0.00	SURGICAL LTG	20/2	13	14	20/2	SPARE	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP8B - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL B**

LOCATION: OR NO. 8 OCP: 30A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.20	A/V RACK	20/2	1	2	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT HEAD	20/2	3	4	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT LEFT	20/2	5	6	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT FOOT	20/2	7	8	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. NURSE STATION	20/2	9	10	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. PATIENT RIGHT	20/2	11	12	20/2	BOOM MONITORS	0.30
0.20							0.30
0.00	SPARE	20/2	13	14	20/2	SURGICAL LTG	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP9A - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL A**

LOCATION: OR NO. 9 OCP: 30A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.40	NURSE MANAGER BOOM	20/2	1	2	20/2	A/V RACK	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	3	4	20/2	REC. PATIENT HEAD	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	5	6	20/2	REC. PATIENT LEFT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	7	8	20/2	REC. PATIENT FOOT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	9	10	20/2	REC. NURSE STATION	0.20
0.40							0.20
0.30	WALL MONITORS	20/2	11	12	20/2	REC. PATIENT RIGHT	0.20
0.30							0.20
0.00	SPARE	20/2	13	14	20/2	SPARE	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP9B - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL B**

LOCATION: OR NO. 9 OCP: 40A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.20	A/V RACK	20/2	1	2	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT HEAD	20/2	3	4	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT LEFT	20/2	5	6	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT FOOT	20/2	7	8	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. NURSE STATION	20/2	9	10	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. PATIENT RIGHT	20/2	11	12	20/2	BOOM MONITORS	0.30
0.20							0.30
0.00	SURGICAL LTG	20/2	13	14	20/2	SPARE	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP10A - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL A**

LOCATION: OR NO. 10 OCP: 40A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.40	NURSE MANAGER BOOM	20/2	1	2	20/2	A/V RACK	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	3	4	20/2	REC. PATIENT HEAD	0.20
0.40							0.20
0.40	NURSE MANAGER BOOM	20/2	5	6	20/2	REC. PATIENT LEFT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	7	8	20/2	REC. PATIENT FOOT	0.20
0.40							0.20
0.40	ANESTHESIA BOOM	20/2	9	10	20/2	REC. NURSE STATION	0.20
0.40							0.20
0.30	WALL MONITORS	20/2	11	12	20/2	REC. PATIENT RIGHT	0.20
0.30							0.20
0.00	SURGICAL LTG	20/2	13	14	20/2	SPARE	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

PANEL: **IP10B - 480V:120V - 1Ø - 3W** **EMERG. CRITICAL B**

LOCATION: OR NO. 10 OCP: 30A - 2P
MOUNTING: FLUSH MAIN: M.C.B.
COMMENTS: NEW ISOLATED PP

KVA:	DESCRIPTION:	CB:	CCT:	CCT:	CB:	DESCRIPTION:	KVA:
0.20	A/V RACK	20/2	1	2	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT HEAD	20/2	3	4	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT LEFT	20/2	5	6	20/2	NURSE MANAGER BOOM	0.40
0.20							0.40
0.20	REC. PATIENT FOOT	20/2	7	8	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. NURSE STATION	20/2	9	10	20/2	ANESTHESIA BOOM	0.40
0.20							0.40
0.20	REC. PATIENT RIGHT	20/2	11	12	20/2	BOOM MONITORS	0.30
0.20							0.30
0.00	SPARE	20/2	13	14	20/2	SURGICAL LTG	0.00
0.00							0.00
0.00	SPARE	20/2	15	16	20/2	SPARE	0.00
0.00							0.00

GROUND BUS

TOTAL CONNECTED KVA: 7.00
TOTAL DEMAND KVA: 7.00 TOTAL DEMAND AMPS: ######

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
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI
ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-8910 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-9699

Drawing Title: POWER DISTRIBUTION PANELBOARD SCHEDULES - SHEET 3 OF 3

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

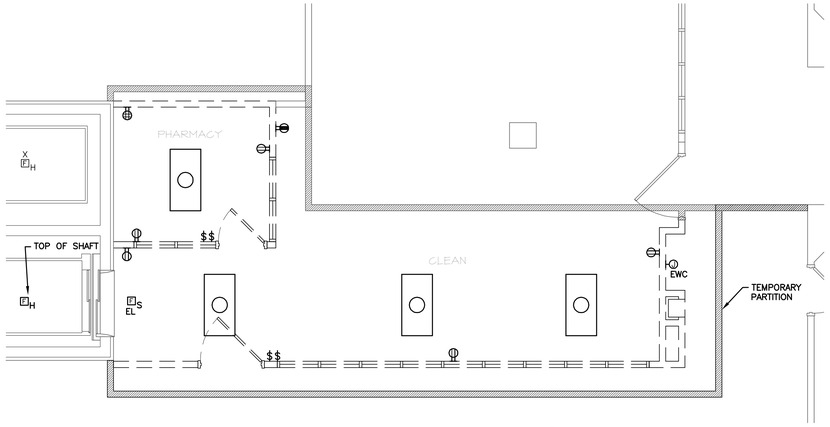
Building Number:

Drawing Number: 2-E7-3

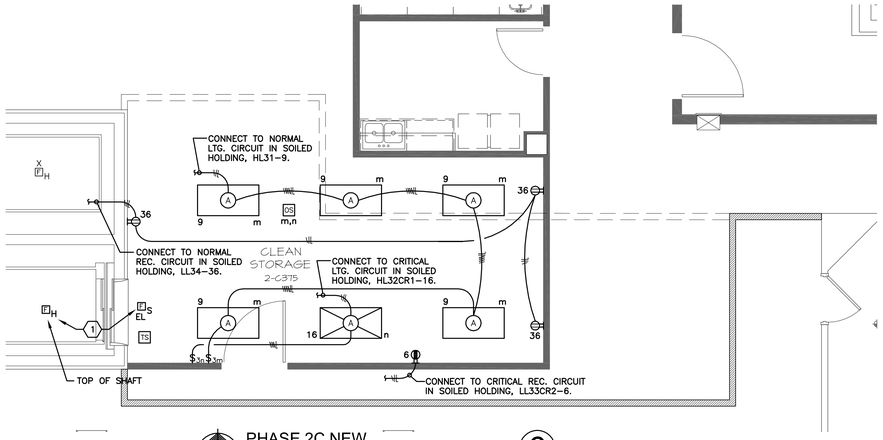
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



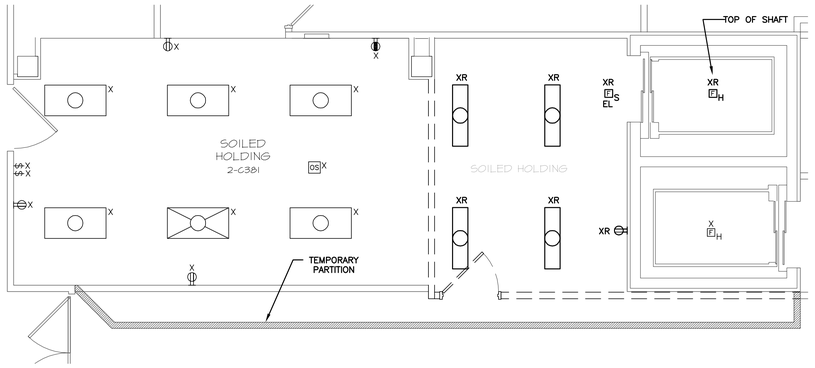
PHASE 2C DEMO (5)
SCALE: 1/4" = 1'0"



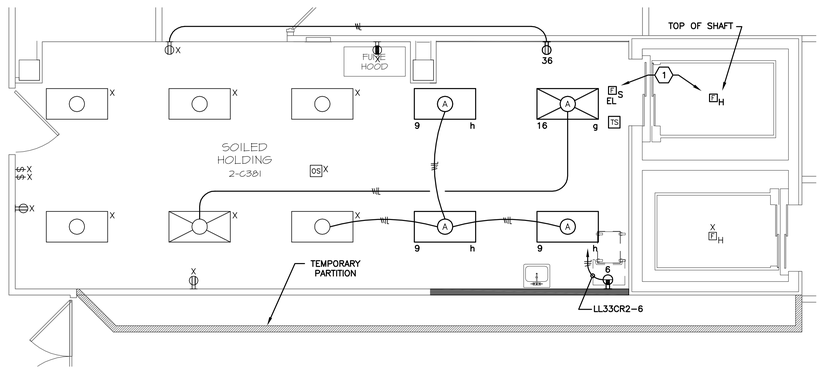
PHASE 2C NEW (6)
SCALE: 1/4" = 1'0"

CODED NOTES:

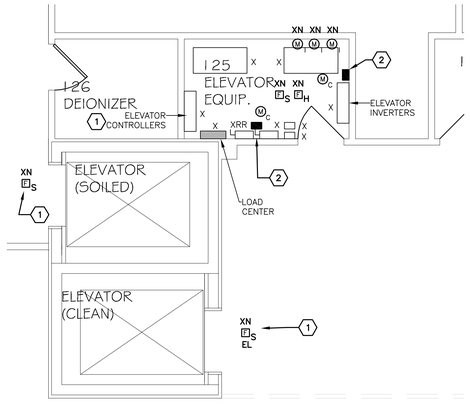
1. PROVIDE UPGRADE TO ALL FIRE ALARM DEVICES THAT INTERFACE WITH ELEVATOR CONTROLS. COORDINATE SHUT-DOWN WITH VA COTR. COORDINATE UPGRADES WITH VA COTR AND ELEVATOR VENDOR RETAINED BY OWNER. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE NEW BREAKER ON LOAD SIDE OF EACH ELEVATOR'S DISCONNECT SWITCH. REFER TO ONE LINE DIAGRAM FOR WORK REQUIREMENTS. ADJUST MOUNTING LOCATIONS OF EXISTING DISCONNECT SWITCHES TO ACCOMMODATE NEW EQUIPMENT WITHIN ROOM.



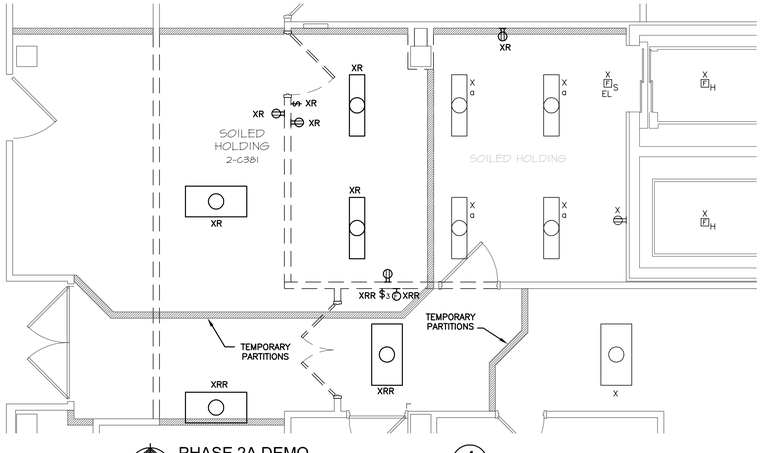
PHASE 2B DEMO (3)
SCALE: 1/4" = 1'0"



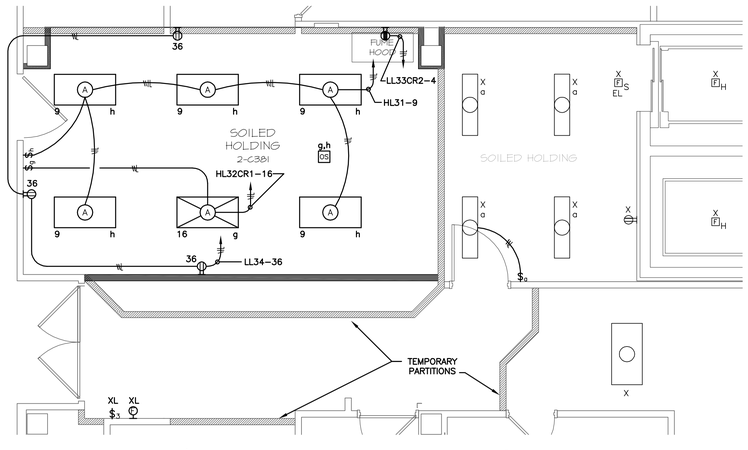
PHASE 2B NEW (4)
SCALE: 1/4" = 1'0"



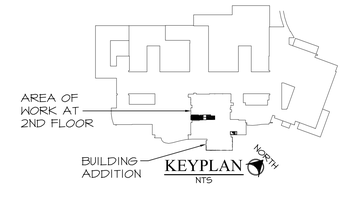
FIRST FLOOR ELEVATOR MACHINE ROOM (7)
SCALE: 1/4" = 1'0"



PHASE 2A DEMO (1)
SCALE: 1/4" = 1'0"



PHASE 2A NEW (2)
SCALE: 1/4" = 1'0"



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
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0096 f

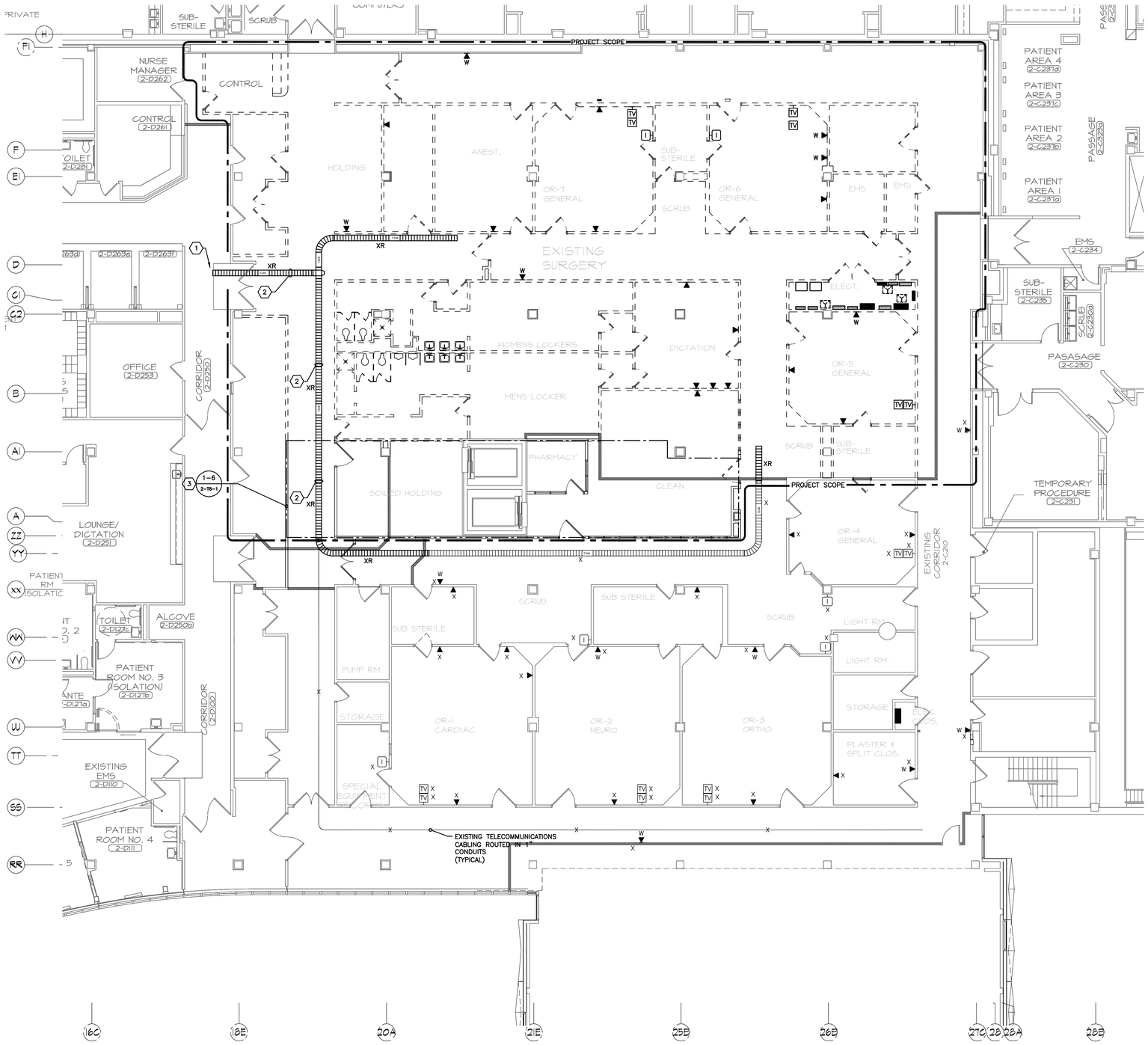
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-9699

Drawing Title: ELECTRICAL PHASING PLANS - SUB-PHASES 2A, 2B, 2C	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-E8-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL SECOND FLOOR TECHNOLOGY DEMOLITION PLAN - PHASE 2 (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.

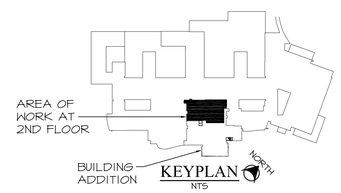
D7. CONTACT THE ENGINEER IF A QUESTION SHOULD ARISE CONCERNING THE STATUS OF ANY OUTLET, DEVICE, LIGHTING FIXTURE, ETC.

D8. TELECOM CABLING FOR 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. EXISTING TELECOM CABLING UP TO PENTHOUSE TELECOM ROOM.
2. REMOVE EXISTING SECTION OF CABLE TRAY TO ACCOMMODATE NEW WORK ABOVE FINISHED CEILING. RESUPPORT (120) EXISTING CAT 5 CABLES TEMPORARILY IN J-HOOKS INSTALLED AT 5'-0" ON CENTER SPACING.
3. REFER TO DRAWING 2-T6-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR DETAILED PHASING REQUIREMENTS.



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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0950 p (440) 891-0956 f

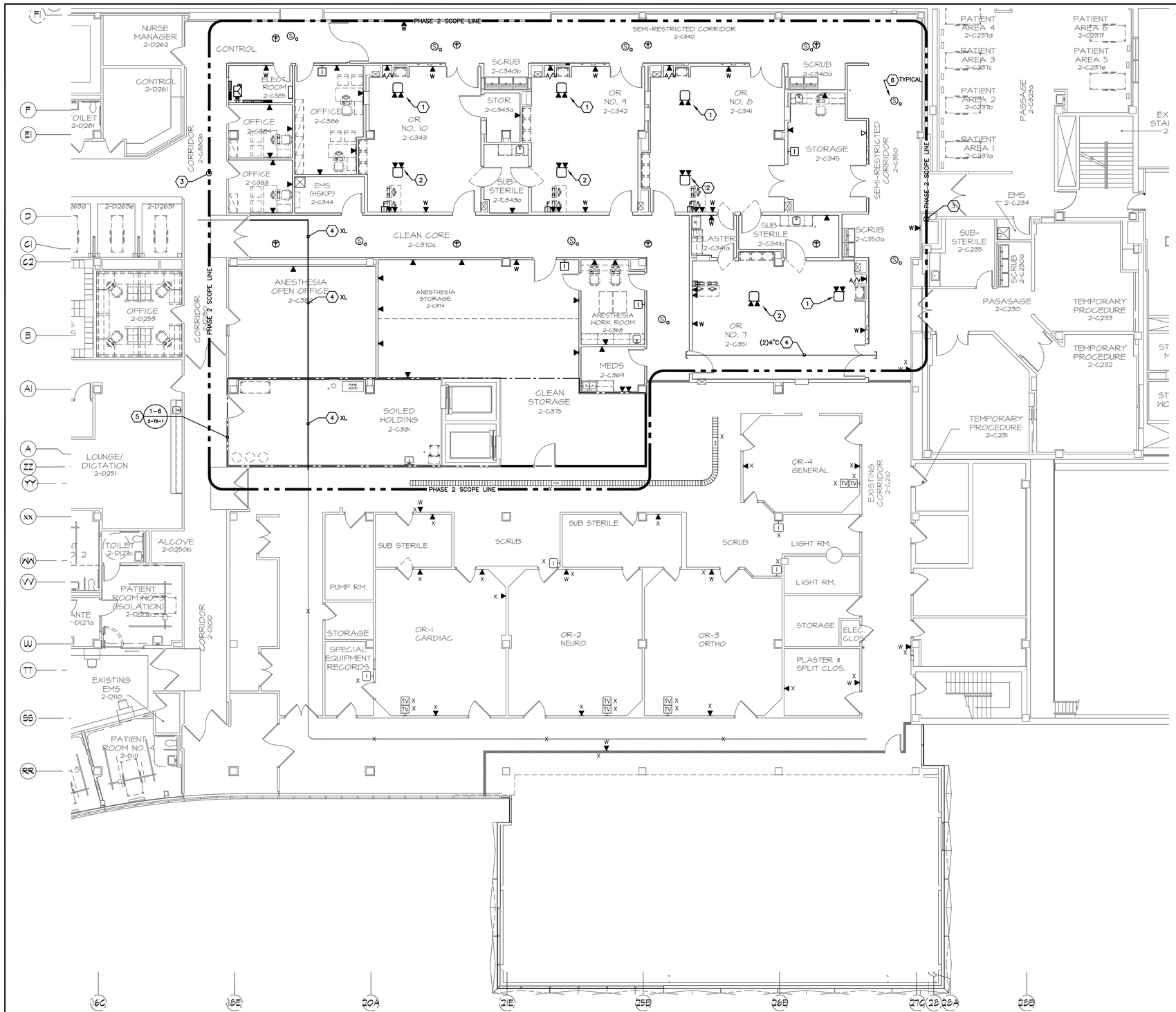
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9696
FAX (440) 546-0899

Drawing Title: PARTIAL SECOND FLOOR TECHNOLOGY DEMOLITION PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-T1-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL SECOND FLOOR
TELECOMMUNICATIONS PLAN - PHASE 2 (1) (6)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

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.

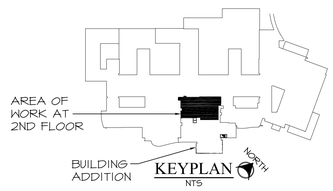
T5. PROVIDE 50' SERVICE LOOPS FOR CABLING AT WIRELESS ACCESS OUTLETS.

T6. REFER TO TECHNOLOGY DETAILS AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.

T7. REFER TO TECHNOLOGY KEY PLAN FOR CABLE TRAY ROUTING.

CODED NOTES:

1. MOUNT TCO'S ON ANESTHESIA BOOM. ROUTE CABLING THROUGH RACEWAY/OPENING ON ANESTHESIA BOOM. PROVIDE 15' SERVICE LOOP.
2. MOUNT TCO'S ON EQUIPMENT BOOM. ROUTE CABLING THROUGH RACEWAY/OPENING ON EQUIPMENT BOOM. PROVIDE 15' SERVICE LOOP.
3. PROVIDE SUFFICIENT CABLE SLACK FOR ALL PHASE 2 OUTLETS SO THAT CABLING WILL ALSO REACH THE NEW SECOND FLOOR TELECOM ROOM BUILT DURING PHASE 3. CABLING SHALL BE PULLED BACK FROM THIRD FLOOR PENTHOUSE AND RETERMINATED TO SECOND FLOOR TELECOM ROOM AFTER IS IS OPERATION – REFER TO PHASE 3 WORK REQUIREMENTS. CONTRACTOR SHALL ACCOUNT FOR ROUTING THROUGH CABLE TRAYS AND SERVICE LOOPS AT SECOND FLOOR TELECOM ROOM.
4. PROTECT EXISTING CAT 5 CABLING FROM DAMAGE WHERE NEW DUCT WORK IS BEING INSTALLED. RELOCATE AND RESUPPORT APPROXIMATELY (120) CAT5 CABLES THAT SERVE PHASE 3 AREA.
5. REFER TO DRAWING 2–T6–1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C–PHASE 2" FOR DETAILED PHASING REQUIREMENTS.
6. PROVIDE NEW PUBLIC ADDRESS DISTRIBUTION EQUIPMENT IN PENTHOUSE TELECOM ROOM 3–B162c. REFER TO THIRD FLOOR ELECTRICAL KEY PLAN FOR LOCATION.



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
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0910 p (440) 891-0506 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9696
FAX. (440) 546-8696

Drawing Title: PARTIAL SECOND FLOOR TELECOMMUNICATIONS PLAN- PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-T2-1
	Date: 03-16-12	Checked By: MPL / Drawn By: TWM	

Office of Construction and Facilities Management
Department of Veterans Affairs

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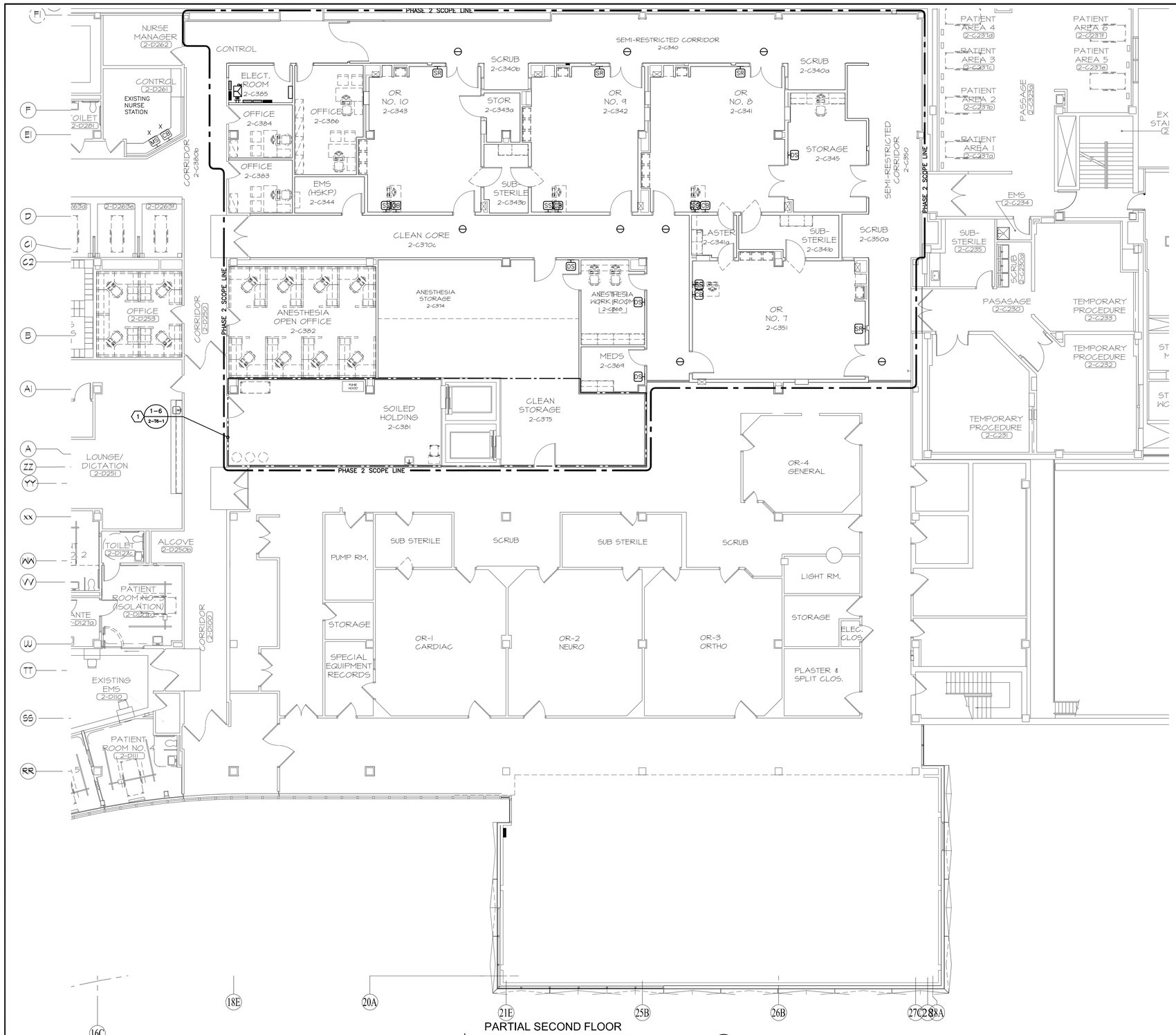


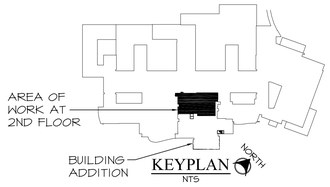
PARTIAL SECOND FLOOR
NURSE CALL PLAN - PHASE 2 — 1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

CODED NOTES:

1. REFER TO DRAWING 2-T6-1 "PARTIAL SECOND FLOOR SUBPHASES A,B,C-PHASE 2" FOR DETAILED PHASING REQUIREMENTS.



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

FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 p (440) 891-0596 f

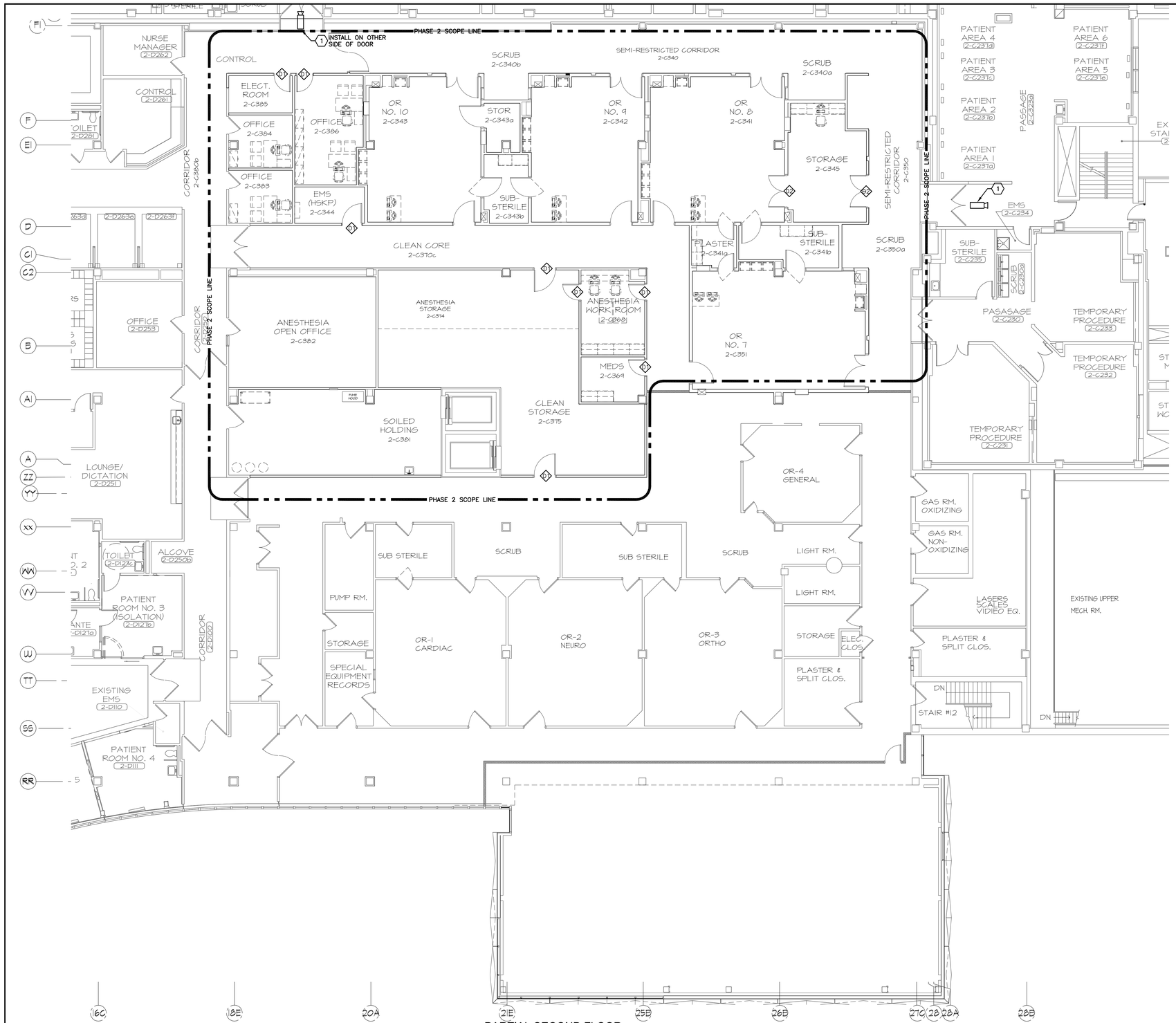
FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9096
FAX. (440) 546-9098

Drawing Title	PARTIAL SECOND FLOOR NURSE CALL PLAN - PHASE 2
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	2-T3-1

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



PARTIAL SECOND FLOOR
SECURITY PLAN - PHASE 2
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'

GENERAL NOTES:

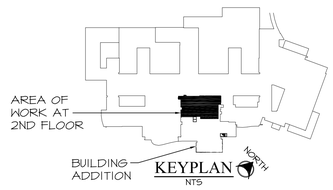
G1. REFER TO SECURITY CAMERA CABLING RISER DIAGRAM ON DRAWING 0-T3-2 FOR ADDITIONAL INFORMATION REGARDING CONNECTION REQUIREMENTS.

G2. FIELD VERIFY MOUNTING LOCATIONS FOR CAMERAS WITH VA COTR PRIOR TO ROUGH-IN.

G3. CONTRACTOR SHALL MAKE FINAL ADJUSTMENTS TO AIMING AND ORIENTATION AFTER OWNER'S INSPECTION.

CODED NOTES:

1. CONNECT COAX CABLING FOR NEW CAMERAS TO EQUIPMENT IN THIRD FLOOR TELECOMM. ROOM. REFER TO THIRD FLOOR TECHNOLOGY KEY PLAN DRAWING 0-T2-3 FOR LOCATION.



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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0919 p (440) 891-0086 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9898
FAX. (440) 546-9899

Drawing Title: PARTIAL SECOND FLOOR SECURITY PLAN - PHASE 2	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-T4-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

Office of Construction and Facilities Management

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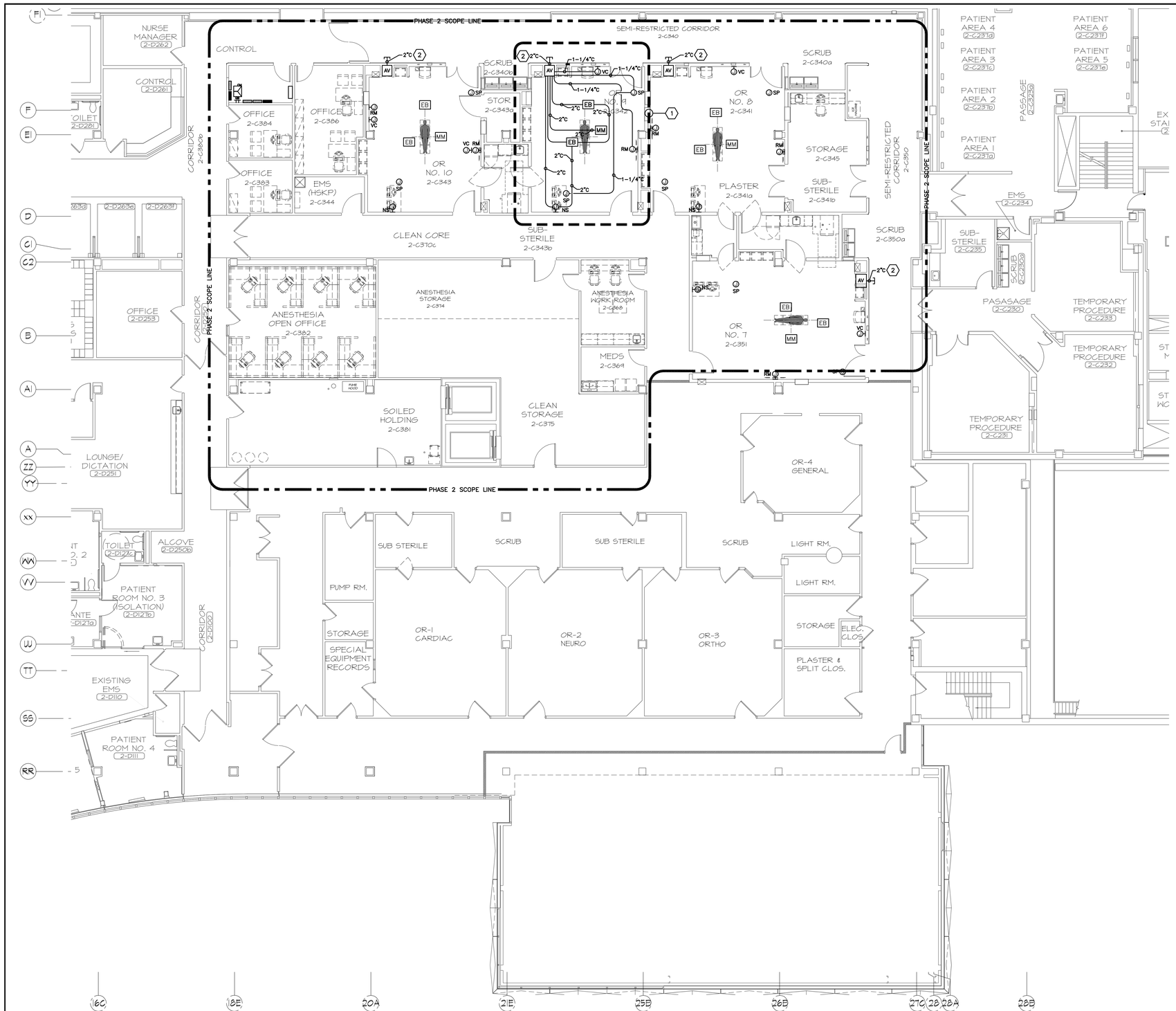


PARTIAL SECOND FLOOR
AUDIO/VIDEO PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

ELECTRICAL GENERAL NOTES:

G1. 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.

G2. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE CC PROJECT MANAGER PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED.

G3. POWER SUPPLIES FOR VENDOR SUPPLIED AUDIO/VISUAL (A/V) EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC.

G4. RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK. FLEXIBLE CONDUIT IS NOT PERMITTED FOR VENDOR RACEWAYS. PROVIDE PULL STRINGS IN ALL RACEWAYS AND CONDUIT RUNS.

G5. PROVIDE INSULATED THROAT CONNECTORS TO PROTECT CABLES FROM ABRASION WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE.

G7. ALL SPECIFIED MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.

G8. EQUIPMENT VENDOR SHALL FURNISH AND INSTALL ALL AUDIO/VIDEO CABLES THROUGH BOOMS, CONDUITS, JUNCTION BOXES, ETC. FROM SOURCE POINT TO DESTINATION POINT AND MAKE FINAL TERMINATIONS.

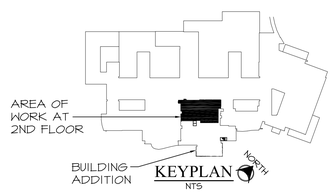
G9. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS IN BRONCHOSCOPY PROCEDURE ROOMS IN EFFORTS TO MAINTAIN NEGATIVE PRESSURE. PROVIDE SEAL-OFF FITTING FOR ANY UNUSED CONDUIT RACEWAYS.

EQUIPMENT LEGEND:

TAG	EQUIPMENT	DESCRIPTION
EB	EQUIPMENT BOOM	CEILING MOUNTED. COORDINATE MULTIPLE UTILITY AND RACEWAY TIE-INS.
MM	MONITOR MOUNT/ SURGICAL LIGHT	CEILING MOUNTED. COORDINATE MULTIPLE UTILITY AND RACEWAY TIE-INS.
AV	A/V EQUIPMENT RACK	PROVIDE 16"W X 8"H X 4"D JUNCTION BOX AT 30" AFF.
NS	NURSE STATION A/V CONTROL	PROVIDE 8" SQ X 4"D FLUSH JUNCTION BOX. COORDINATE MOUNTING LOCATION WITH CASEWORK.
VC	VIDEO CAMERA	PROVIDE 1-GANG JUNCTION BOX MOUNTED AT 96" AFF.
RM	REMOTE MONITOR	PROVIDE 2-GANG JUNCTION BOX AND DUPLEX RECEPTACLE MOUNTED AT 78" AFF. COORDINATE MOUNTING LOCATION WITH MOUNTING BRACKET. QUANTITY OF MONITORS MAY VARY FOR EACH ROOM.
SP	SPEAKER	PROVIDE CEILING MOUNTED BACKBOX AND PROVIDE VENDOR SPECIFIED SPEAKER CABLE WITH 3'-0" MINIMUM WHIP AT EACH END.

CODED NOTES:

1. TYPICAL CONFIGURATION FOR EACH O.R. ROOM.
2. STUB CONDUIT FROM A/V RACK OUT TO ACCESSIBLE LOCATION ABOVE FINISHED CEILING IN THE CORRIDOR.



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FINAL BID DOCUMENTS	03-16-12
Revisions:	Date

CONSULTANTS:

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

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-0970 (440) 891-0996

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL. (440) 546-9090
FAX. (440) 546-9099

Drawing Title: PARTIAL SECOND FLOOR AUDIO/VIDEO PLAN - PHASE 2

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: 2-T5-1

Office of Construction and Facilities Management

Department of Veterans Affairs

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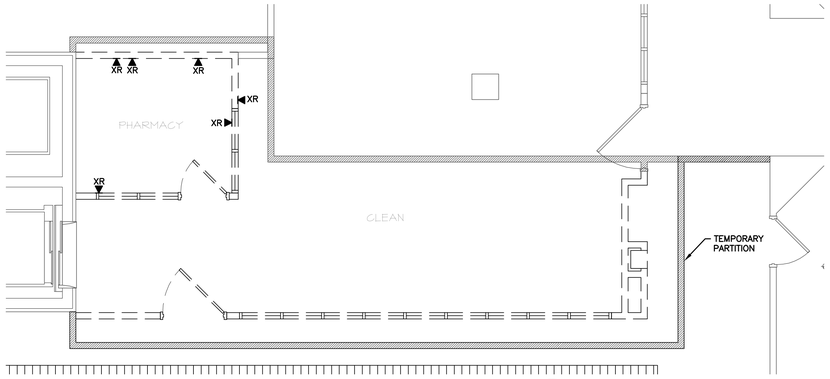
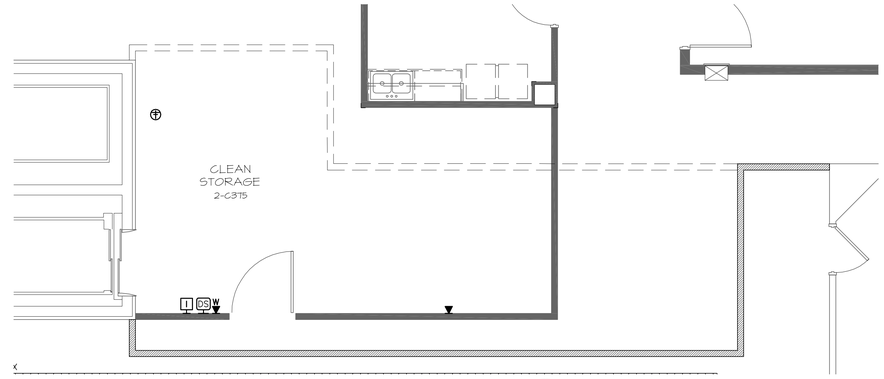


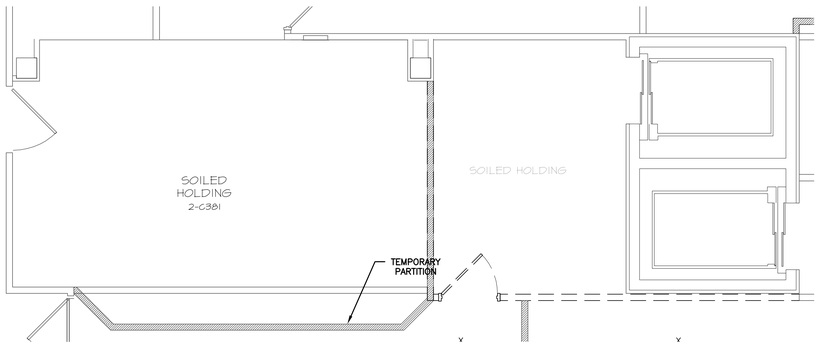
PHASE 2C DEMO (5)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



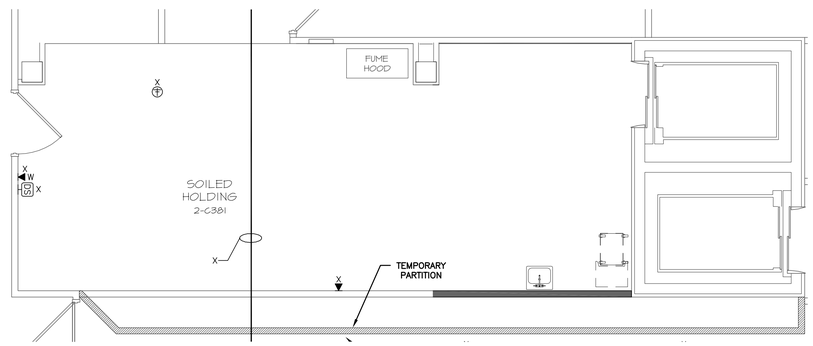
PHASE 2C NEW (6)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'

CODED NOTES:

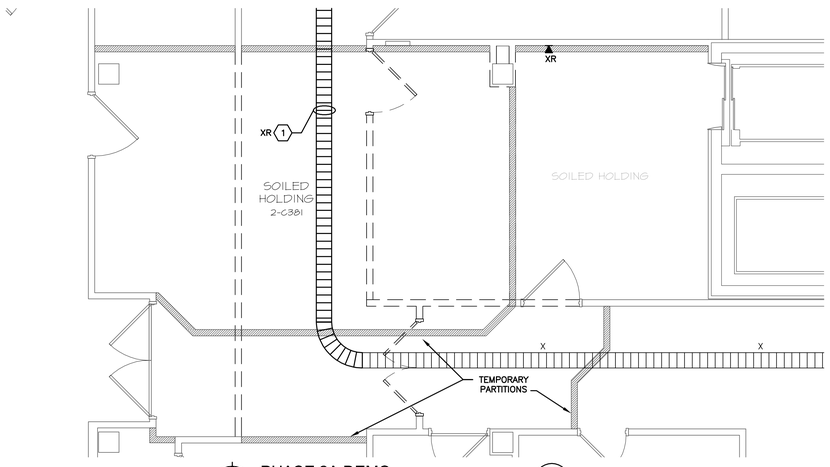
1. REMOVE EXISTING SECTION OF CABLE TRAY TO ACCOMMODATE NEW WORK ABOVE FINISHED CEILING. RESUPPORT (120) EXISTING CAT 5 CABLES TEMPORARILY IN J-HOOKS INSTALLED AT 5'-0" ON CENTER SPACING.
2. PROTECT EXISTING CAT 5 CABLING FROM DAMAGE WHERE NEW DUCT WORK IS BEING INSTALLED. RELOCATE AND RESUPPORT APPROXIMATELY (120) CAT5 CABLES THAT SERVE PHASE 3 AREA.



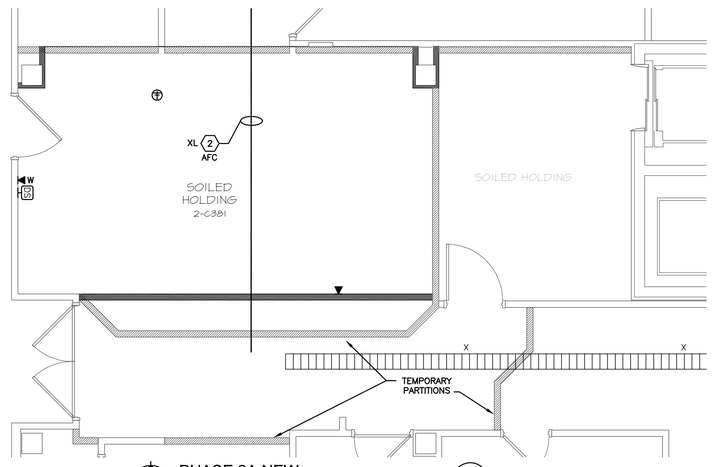
PHASE 2B DEMO (3)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



PHASE 2B NEW (4)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'



PHASE 2A DEMO (1)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'



PHASE 2A NEW (2)
SCALE: 1/4" = 1'0"
0' 2' 4' 8' 16'

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59459
REGISTERED
PROFESSIONAL ENGINEER
FF&H #10012

ARCHITECT/ENGINEERS:

MAKOVICH & PUSTI ARCHITECTS, INC.
111 FRONT STREET BEREA, OHIO 44017
(440) 891-9939 p (440) 891-0096 f

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HTS., OHIO 44147
TEL (440) 546-9898
FAX (440) 546-9899

Drawing Title: TECHNOLOGY PHASING PLANS - SUB-PHASES 2A, 2B, 2C	Project Title: SURGERY ADDITION		Project Number: 541-364
			Building Number:
Approved: Project Director	Location: 10701 EAST BLVD, CLEVELAND, OHIO 44106		Drawing Number: 2-T6-1
	Date: 03-16-12	Checked By: MPL	Drawn By: TWM

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