

SUNY DOWNSTATE MEDICAL CENTER

450 CLARKSON AVENUE
BROOKLYN, NEW YORK 11203

PHASE "2" UPGRADING EXISTING MRI AT FIRST FLOOR

CONSULTANT:

ARCHITECT:

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MECHANICAL, ELECTRICAL,
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ARCHITECTURAL:

A-000.00	COVER SHEET
A-001.00	LOCATION PLAN, GENERAL NOTES & ABBREVIATIONS
A-100.00	FIRST FLOOR DEMOLITION PLAN
A-101.00	SECOND FLOOR DEMOLITION PLAN
A-102.00	ROOF DEMOLITION PLAN
A-200.00	FIRST FLOOR CONSTRUCTION PLAN
A-201.00	SECOND FLOOR CONSTRUCTION PLAN
A-202.00	ROOF CONSTRUCTION PLAN
A-300.00	FIRST FLOOR REFLECTED CEILING PLAN
A-301.00	SECOND FLOOR REFLECTED CEILING PLAN
A-400.00	FIRST FLOOR EQUIPMENT / FURNITURE PLAN & SCHEDULE
A-500.00	ELEVATIONS AND NOTES
A-600.00	MILLWORK & DETAIL & PARTITION TYPES
A-601.00	GENERAL MRI ROOM & RF DETAILS
A-700.00	DOOR, SCHEDULE, HARDWARE & CEILING DETAILS
F-100.00	FIRST FLOOR FINISH PLAN & SCHEDULE

MECHANICAL:

M-001.00	MECH. NOTES, KEY OF SYMBOLS, AND DRAWING LIST
DM-101.00	FIRST FLOOR DEMOLITION PLAN
M-101.00	MECH. FIRST FLOOR PLAN
DM-102.00	MECH. SECOND FLOOR DEMOLITION PLAN
M-102.00	MECH. SECOND FLOOR PLAN
DM-103.00	MECH. ROOF DEMOLITION PLAN
M-103.00	MECH. ROOF PLAN
M-301.00	MECH. RISER DIAGRAM
M-401.00	MECH. SPECIFICATIONS
M-501.00	MECH. DETAIL SHEET 1

ELECTRICAL:

E-001.00	ELECTRICAL SYMBOL LIST, ABBREVIATIONS & DRAWING LIST
E-002.00	ELECTRICAL SPECIFICATIONS
E-003.00	UPS SYSTEM SPECIFICATIONS PART I
E-004.00	UPS SYSTEM SPECIFICATIONS PART II
E-100.00	ELECTRICAL CELLAR PLAN
DE-101.00	ELECTRICAL FIRST FLOOR DEMOLITION PLAN
E-101.00	ELECTRICAL FIRST FLOOR POWER PLAN
E-102.00	ELECTRICAL SECOND FLOOR PLAN
E-103.00	ELECTRICAL ROOF PLAN
E-201.00	ELECTRICAL FIRST FLOOR LIGHTING PLAN
E-301.00	ELECTRICAL ONE LINE DIAGRAM
E-401.00	ELECTRICAL DETAILS (SHEET 1)
E-402.00	ELECTRICAL DETAILS (SHEET 2)

FIRE PROTECTION:

SP-001.00	SPRINKLER NOTES, KEY OF SYMBOLS AND DRAWING LIST
DSP-101.00	FIRST FLOOR DEMOLITION PLAN
SP-101.00	FIRST FLOOR SPRINKLER PLAN
SP-102.00	SECOND FLOOR SPRINKLER PLAN
SP-401.00	SPRINKLER PRE-ACTION DETAILS
SP-402.00	SPRINKLER PRE-ACTION NOTES
SP-501.00	SPRINKLER SCHEDULES

FIRE ALARM:

FA-101.00	FIRE ALARM FIRST FLOOR PLAN
FA-301.00	FIRE ALARM NOTES, SYMBOL LIST AND RISER DIAGRAM
FA-501.00	PRE ACTION FIRST FLOOR PLAN
FA-601.00	PRE ACTION NOTES, SYMBOL LIST AND RISER DIAGRAM

OWNER:



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ARCHITECT

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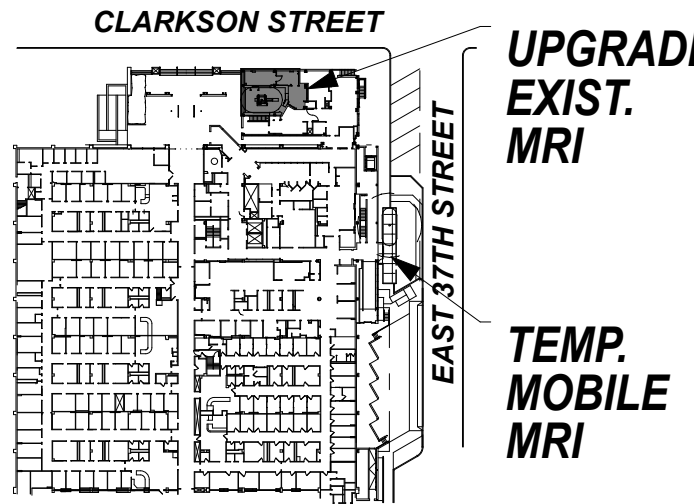
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SITE PLAN



ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review - 100% CD	03.01.2010
Issued for Review - 100% CD	12.17.2012

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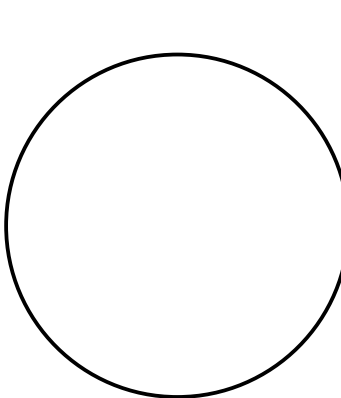
PROJECT TITLE

PHASE "2": UPGRADING EXISTING MRI

DRAWING TITLE

COVER SHEET

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

SCALE: AS NOTED

DRAWING NO.

A-000.00

CAD FILE NO.

PROGRESS SET:
12/10/12

GENERAL NOTES:

- 1: ALL WORK SHALL BE PERFORMED MONDAY THRU FRIDAY 8 AM TO 4:30 PM DURING THE NORMAL ADMINISTRATIVE PORTION OF THE DAY.
- 2: PRIME TIME OR OTHER TIME REQUIRED TO COMPLETE THIS PROJECT AS DIRECTED BY THE OWNER SHALL BE AT NO ADDITIONAL EXPENSE TO THE HOSPITAL.
- 3: CONTRACTOR SHALL COMPLY WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) LAWS, REGULATIONS AT ALL TIMES WITHOUT ANY DIRECTION FROM OWNER / SUNY DOWNSTATE HOSPITAL.
- 4: CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, MEASUREMENTS, CONFLICTS, EXISTING UTILITIES, DIMENSIONS, QUANTITIES AND WHATEVER ELSE IS NECESSARY TO COMPLETE THE PROJECT. VERIFY LOCATION, DEPTHS, DIRECTION, SIZE, OR ANY EXISTING UTILITY, WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 5: IT IS RECOMMENDED THAT THE CONTRACTOR PERFORM A DOCUMENTED SITE VISIT PRIOR TO BID.
- 6: CONTRACTOR SHALL SUBMIT TO THE OWNER ALL CONSTRUCTION MATERIALS, PRODUCTS AND EQUIPMENT. SUBMIT MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS AND MATERIAL.
- 7: CONTRACTOR SHALL REPAIR TO THE SATISFACTION OF THE SUNY'S PROJECT MANAGER ANY UTILITY DISRUPTED, DAMAGED, BROKEN OR OTHERWISE HARMED IN ANY FASHION THRU THIS CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 8: CONTRACTOR SHALL REPORT TO THE SUNY'S PROJECT MANAGER ANY NON-FUNCTIONING EXISTING UTILITY.
- 9: CONTRACTOR SHALL SUPPORT ANY EXISTING UTILITY AS REQUIRED BY CONSTRUCTION.
- 10: CONTRACTOR SHALL CLEAN THE WORK SPACE AT THE END OF EACH WORKING DAY, SECURE THE CONSTRUCTION AREA, ALL DEBRIS SHALL BE SWEEPED UP, REMOVED AND DISPOSED OF BY THE CONTRACTOR IN CONTRACTOR SUPPLIED DUMPSTER.
- 11: CONTRACTOR SHALL PROVIDE HIS OWN STORAGE SPACE. STORAGE OF CONTRACTORS' MATERIALS SHALL BE PROHIBITED INSIDE THE WORK AREA. CONTRACTOR SHALL PROVIDE OWN SECURITY FOR STORAGE TRAILER.
- 12: CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE SAFETY OF THE WORKSITE AND TAKE IMMEDIATE ACTION, WITHOUT DIRECTION FROM GOVERNMENT EMPLOYEES OR THE OWNER TO ELIMINATE SAFETY HAZARD(S) THAT POSE A THREAT(S) OR POTENTIAL THREAT(S) TO PATIENTS, EMPLOYEES, VISITORS AND CONTRACTORS' WORKFORCE.
- 13: THERE SHALL BE NO CLAIMS AGAINST THE SUNY DOWNSTATE OR REPRESENTATIVES OF SUNY DOWNSTATE FOR WORK STOPPAGES DUE TO ACTS OF GOD, WEATHER CONDITIONS, STOP WORK ORDERS (VERBAL OR WRITTEN OR BOTH), UNDERESTIMATION OF WORK, ESTIMATED QUANTITIES, MATERIALS SUPPLIES, SUPERVISION, TOOLS, LATE SUBMISSION, ANY RETURN OF SUBMISSION DELAY, CORRECTION OF SAFETY PROBLEMS, OR ANY OTHER REASON.
- 14: SUBMIT PRIOR TO FINAL PAYMENT AN "AS CONSTRUCTED DRAWING" DETAILING ALL NEW CONSTRUCTION AND SUBMIT TO THE SUNY'S PROJECT MANAGER, TO BE PROFESSIONALLY DRAWN USING STANDARD ENGINEERING PRACTICES.
- 15: CONTRACTOR SHALL TAKE AND MAINTAIN ALL MEASUREMENTS DURING THE COURSE OF THE PROJECT. ALL MEASUREMENTS SHALL BE NOTED ON THE "AS BUILT".
- 16: USE OF VIBRATORY IMPACT TOOLS ARE PROHIBITED IN ALL INTERIOR WORK. ANY PENETRATIONS THRU CONCRETE AND MASONRY SHALL BE CORE DRILLED WITH DIAMOND BIT ONLY. ALL PENETRATIONS SHALL BE SLEEVED AND FIREPROOFED.
- 17: ANY AND ALL RIGGING SHALL BE SOLELY AT THE EXPENSE OF THE CONTRACTOR OR COORDINATE ALL RIGGING WITH THE SUNY. PROVIDE ALL BARRICADES, BARRELS, TEMPORARY FENCING AND SIGNAGE AS REQUIRED BY THE SUNY'S PROJECT MANAGER TO SECURE RIGGING AREA FROM PATIENTS EMPLOYEES AND STAFF.
- 18: PARKING SHALL BE IN LEGAL PARKING SPACES ONLY. NO PARKING IN PATIENT LOTS, LOADING AREAS (EXCEPT FOR IMMEDIATE LOADING/UNLOADING MATERIALS AND OR SUPPLIES), OR OTHER DESIGNATED NON-PARKING AREAS.
- 19: SMOKING IS PROHIBITED IN ALL BUILDINGS AND WITHIN 50 FOOT OF EVERY EXTERIOR DOOR.
- 20: PRIOR TO THE PENETRATION OF ANY WALL, CONTRACTOR SHALL OBTAIN A "SMOKE BARRIER PENETRATION PERMIT" FROM THE SUNY'S FIRE DEPARTMENT. AT THE COMPLETION OF WORK THE VENDOR SHALL SCHEDULE AN INSPECTION WITH THE CONTRACTOR AND FIRE DEPARTMENT TO INSPECT ANY AND ALL PENETRATIONS AND REPAIR ANY AND ALL PENETRATIONS TO THE SATISFACTION OF THE SUNY. COPY OF THE PERMIT FORMS WILL BE FOUND IN THE SECTION 01010 GENERAL REQUIREMENTS. IF THERE IS NO COPY A COPY SHALL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.
- PRIOR TO THE START OF ANY WORK CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWING DETAILING ALL NEW PENETRATIONS.
- 21: CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY CHAIN LINK FENCE, MINIMUM 6'-0" FEET IN HEIGHT AND LOCKING GATE, FOR DUMPSTERS AND ALL EXTERIOR CONSTRUCTION. FENCE POSTS SHALL BE A MINIMUM OF 2" DIAMETER, SCHEDULE 40 GALVANIZED STEEL, SPACED MAXIMUM OF 8 FEET ON CENTERS (OR CLOSER, AS REQUIRED BY THE LOCATION, TURNS, ENDS POSTS, ETC). POSTS SHALL EXTEND MINIMUM 24" INTO THE GROUND. WIRE FABRIC SHALL BE MAXIMUM OF 2 INCHES BY 2 INCHES, MINIMUM OF 9 GAUGE, TIE WIRE FABRIC TO POSTS USING A MINIMUM OF 3 WIRES PER POST.
- IN LIEU OF THE ABOVE, SAFETY TYPE 6 FOOT HIGH RELOCATABLE TEMPORARY FENCING MAY BE SUBMITTED. SUBMIT TEMPORARY FENCE DETAIL FOR APPROVAL.
- 22: CONTRACTOR SHALL BE PROHIBITED FROM USING HILTI OR OTHER TYPE EXPLOSIVE SHOTS INTO CONCRETE FOR ANCHORING OR SECURING PURPOSES.
- 23: CONTRACTOR SHALL PRIOR TO THE START OF WORK SUBMIT A FULL SET OF COORDINATED DRAWINGS FOR ALL TRADES. DRAWING SHALL BE COMPLETE. DRAWING TO SHOW ALL EXISTING UTILITIES, DETAIL ALL NEW WORK RESOLVING ALL UTILITY "HITS".
- 24: CONTRACTOR SHALL SUBMIT 3 COPIES OF ALL PAYROLLS AND 3 COPIES OF DAILY LOGS.
- 25: CONTRACTOR SHALL BE ADVISED THAT ANY CHANGES TO THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL BE CONSIDERED ONLY WHEN ACCOMPANIED BY A REVISED DRAWING INDICATING THE PROPOSED CHANGE. THE REVISED DRAWING SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE SUNY AND SHALL BE SUBMITTED TO THE CONTRACTING OFFICER, WITH SUPPORTING ENGINEERING CALCULATIONS, FOR REVIEW AND APPROVAL. THE ABOVE DOCUMENTS SHALL BE TRANSMITTED BY THE CONTRACTOR TO THE AE, ENGINEERING OFFICE AND BUSINESS SERVICE CENTER CONTRACTING OFFICE.

HAZARDOUS MATERIAL:

NEITHER THE OWNER OR THE ARCHITECT WARRANTS OR GUARANTEES THE AREA OF WORK TO BE FREE OF HAZARDOUS, OR NUISANCE HAZARD MATERIAL.

HAZARDOUS MATERIALS ARE INCLUDED BUT NOT LIMITED TO ASBESTOS PIPE COVERING (INSULATION), VINYL, ASBESTOS TILE AND SOME LINOLEUM, LEAD BASED PAINT, AND LATEX DUST.

NUISANCE HAZARD MATERIAL INCLUDE BUT NOT LIMITED TO FIBERGLASS.

BEFORE COMMENCING, THE CONTRACTOR SHALL HAVE THE AREA INSPECTED BY AN AGENCY FAMILIAR WITH HAZARDOUS MATERIALS AND REPORT IN WRITING THE RESULTS OF INSPECTION TO THE OWNER. SHOULD HAZARDOUS MATERIALS BE ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK, SEAL THE AREA, AND REPORT CONDITION TO THE OWNER AND THE ARCHITECT AND DO NO WORK UNTIL THE CONDITION IS CORRECTED.

ABBREVIATIONS:

- AC

A/C

A.C.T.

A.F.F.

AL

APPROX.
- BD.

B.G.

BIT.

BLDG.

BLK.

BM.

BOT.

B/O.

BR.

B.U.R.
- CB.

CC

CPT.

CEM.

CL.

CLG.

CLR.

C.M.U.

COL.

CONC.

CONT.

C.T.

CW.

C.W.
- DET.

D.F.

D.G.J.

DIM.

DIM.

DR.

DWG.
- E.C.

E.E.J.

ELECT.

ELEV.

EQ.

E.W.C.

EX.

EXIST.

EXT.
- FDTN.

F.E.B.

F.F.C.

FIN.

F.P.S.C.

F.R.C.B.
- GALV.

G.W.B.

HDWR.

H.M.

HR.

HT.

INSUL.

INT.

JT.

JC.
- L.

LAV.

LK.

LT.
- M.O.

M.C.P.

M.E.P.

MIN.
- N.

NAT.

N.I.C.
- P.P.T.

PART.

PARTN.

PLAST.

PLM.

PLYWD.

P.T.F.R.
- R.

RF.

RT.
- SGL.

SIM.

SL.

SLB.

SLDG.

S.S.

ST., STL.

SUSP.

SVF.
- T.O.S.

T.O.W.

TYP.
- U.O.N.
- V.C.B.

V.C.T.

VERT.

V.I.F.

VNR.

V.W.C.
- W.

W/.

W.C.

WD.

W.P.

WT.

W.W.M.
- ACOUSTICAL

AIR CONDITIONING

ACOUSTICAL CEILING TILE

ABOVE FINISHED FLOOR

ALUMINUM

APPROXIMATE
- BOARD

BLOM-FIELD GUASS LINE

BITUMINOUS

BUILDING

BLOCK

BEAM

BOTTOM

BOTTOM OF

BRICK

BUILT-UP ROOFING
- CERAMIC BASE

CUBICLE CURTAINS

CARPET

CEMENT

CENTER LINE

CEILING

CLEAR

CONCRETE MASONRY UNIT

COLUMN

CONCRETE

CONTINUOUS

CERAMIC TILE

CERAMIC WALL TILE

COLD WATER
- DETAIL

DRINKING FOUNTAIN

DUMMY GROOVE JOINT

DIAMETER

DIMENSION

DOOR

DRAWING
- ELECTRICAL CONTRACTOR

EXPANSION JOINT

ELEVATION

ELECTRICAL

ELEVATOR

EQUAL

ELECTRICAL WATER COOLER

EXISTING

EXISTING

EXTERIOR
- FOUNDATION

FIRE EXTINGUISHER BRACKET

FIRE EXTINGUISHER CABINET

FINISHED FLOOR

FINISHED

FIRE-PROOF SLEF CLOSING

FIBER REINFORCED CEMENT BOARD
- GALVANIZED

GLASS

GYPSUM WALL BOARD

HARDWARE

HOLLOW METAL

HOUR

HEIGHT

INSULATION

INTERIOR

JOINT

JANITOR CLOSET
- LONG

LAVATORY

LOCKERS

LIGHT
- MASONRY OPENING

MULTI-COLORED PAINT

MECHANICAL, ELECT. & PLUMBING

MINIMUM
- NEW

NATURAL

NOT IN CONTRACT
- PAINTED

PARTIAL

PARTITION

PLASTER

POLYMER FLOORING

PLYWOOD

PRESSURE TREATED FIRE RETARDANT
- RADIUS

RADIO FREQUENCY

RATED
- STANDARD GAUSS LINE

SIMILAR

SLATE

SLATE BASE

SLIDING

STAINLESS STEEL

STEEL

SUSPENDED

SEAMLESS VINYL FLOORING
- TOP OF SLAB

TOP OF WALL

TYPICAL
- UNLESS OTHERWISE NOTED
- VINYL COVERING BASE

VINYL COMPOSITION TILE

VERTICAL

VERIFY IN FIELD

VENEER

VINYL WALL COVERING
- WIDE

WITH

WATER COOLER

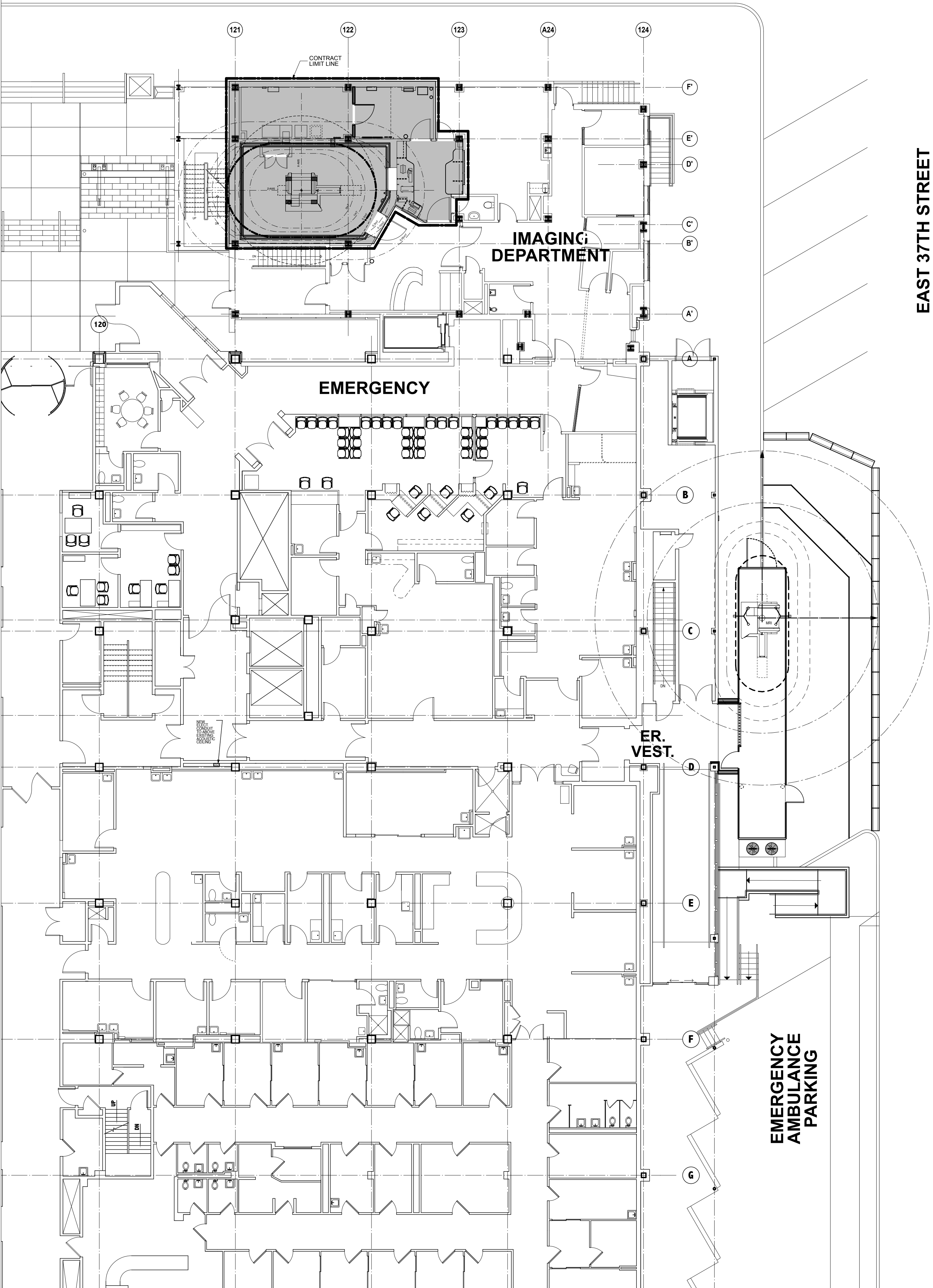
WOOD

WORKING POINT

WINDOW TREATMENT

WOVEN WIRE MESH

CLARKSON STREET



EAST 37TH STREET

OWNER:



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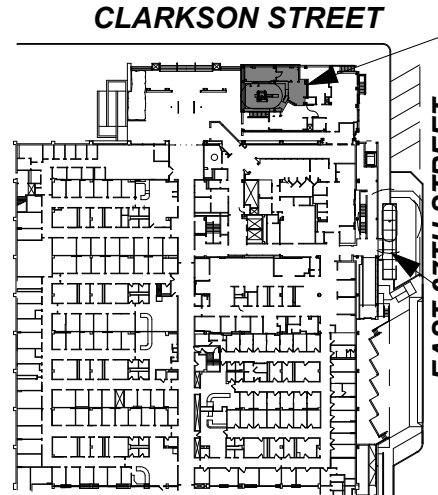
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SITE PLAN



UPGRADE
EXIST.
MRI

TEMP.
MOBILE
MRI

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
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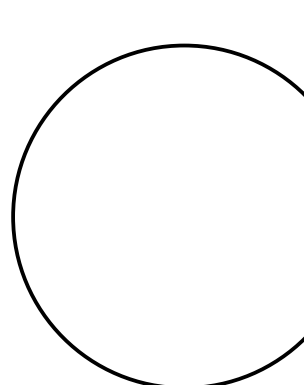
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**LOCATION PLAN,
GENERAL NOTES &
ABBREVIATIONS**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

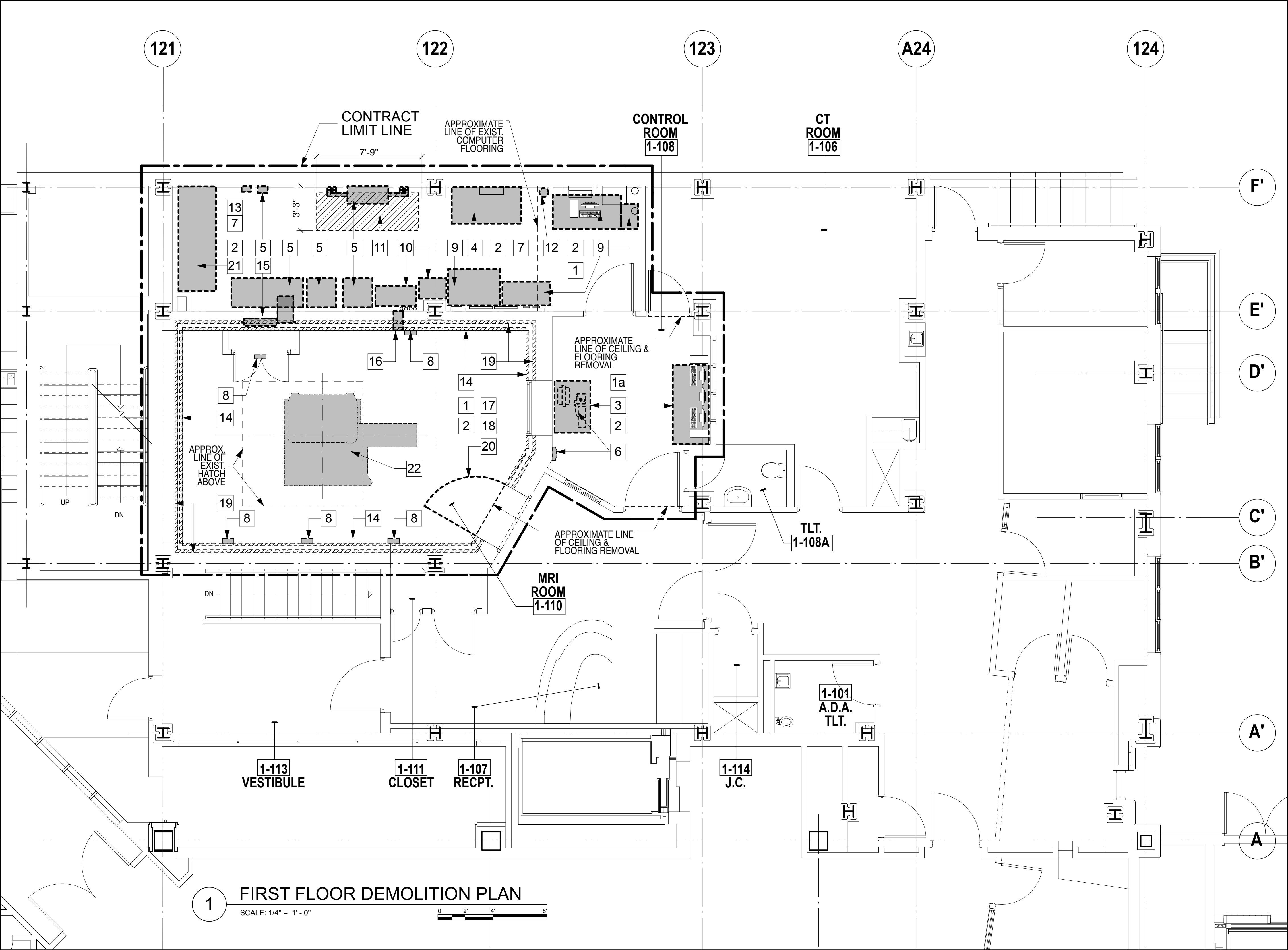
SCALE: AS NOTED

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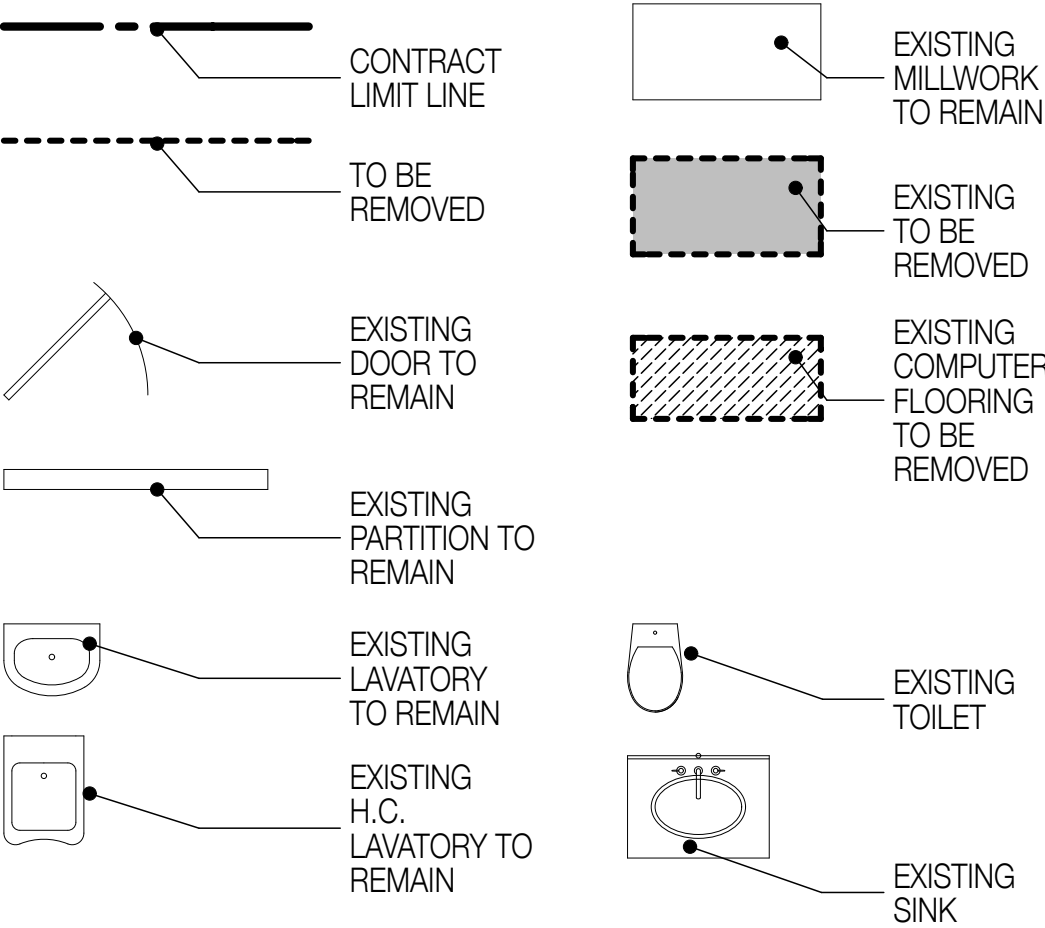
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CAD FILE NO.

**PROGRESS SET:
12/10/12**



DEMOLITION LEGEND:



GENERAL DEMOLITION NOTES:

A - REMOVE ALL WALL MOUNTED FIXTURES, ACCESSORIES, EQUIPMENT, ETC., PRIOR OF DEMOLITIONS. RETURN TO THE OWNER OR DISPOSE AS DIRECTED.

CODED DEMOLITION NOTES

- 1

REMOVE EXISTING CEILING, ALL RELATED COMPONENTS, LIGHT FIXTURES, MECH. DIFFUSERS, SPRINKLER HEADS AND ETC. REFER TO CEILING NOTES NO. 7 PRIOR OF DEMOLITION.
- 1a

SAME AS "1", EXCEPT EXISTING SPRINKLER TO REMAIN (V.I.F.).
- 2

REMOVE EXISTING FLOORING. LEAVE READY TO RECEIVE NEW FLOORING.
- 3

REMOVE EXISTING MILLWORK / FURNITURE & RETURN TO THE OWNER OR DISPOSE AS DIRECTED BY THE OWNER.
- 4

CAREFULLY REMOVE EXISTING UPS CABINETS AND STORE FOR TRADE-IN. SUBJECT TO DISCUSS WITH THE OWNER.
- 5

REMOVE EXISTING SIEMENS EQUIPMENT. CONFIRM DISPOSAL WITH OWNER OR DISPOSE AS DIRECTED.
- 6

REMOVE EXISTING EQUIPMENT / SIEMENS EQUIPMENT. LEAVE READY TO RECEIVE NEW EQUIPMENT AT THE SAME LOCATIONS. REFER TO MEP, SIEMENS DRAWINGS AND OR MANUALS FOR ADDITIONAL INFORMATION.
- 7

REMOVE EXISTING COMPUTER FLOORING PANELS. LEAVE THE EXISTING COMPUTER FLOORING STANDS TO RECEIVE NEW COMPUTER FLOORING PANELS.
- 8

REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE. LEAVE READY TO RECEIVE NEW LIGHT FIXTURE. REFER TO A-300 & ELECTRICAL DRAWINGS.
- 9

REMOVE EXISTING FURNITURE AND RETURN TO THE OWNER OR DISPOSE AS DIRECTED.
- 10

REMOVE EXISTING LOCKERS AND RETURN TO THE OWNER OR DISPOSE AS DIRECTED.
- 11

CAREFULLY REMOVE PORTION OF EXISTING RAISED / COMPUTER FLOOR PANELS AND STANDS AS SHOWN. LEAVE READY OPEN FOR NEW ELECTRICAL UPS SUPPORT STEEL DUNNAGE. REFER TO A-200, "2" FOR NEW LAYOUT AND ADDITIONAL INFORMATION.
- 12

CAREFULLY REMOVE EXISTING FIRE EXTINGUISHER AND STORE FOR REINSTALLATION. REFER TO CONSTRUCTION AND EQUIPMENT / FURNITURE PLAN FOR ADDITIONAL INFORMATION.
- 13

PRIOR OF FLOOR DEMOLITION THIS AREA, GENERAL CONTRACTOR TO DOCUMENT AND RECORD, LOCATIONS OF EXISTING PERFORATED ACCESS FLOORING PANELS AND PROVIDE NEW ACCESS FLOORING PANELS AT SAME LOCATIONS.
- 14

REMOVE EXISTING GYPSUM BOARD AND EXISTING SUPPORT STUDS. LEAVE READY TO RECEIVE NEW PARTITION. REFER TO A-601 FOR ADDITIONAL INFORMATION.
- 15

REMOVE EXISTING FILTER. LEAVE READY TO RECEIVE NEW RF FILTER. REFER TO CONSTRUCTION & SIEMENS DRAWINGS FOR ADDITIONAL INFORMATION.
- 16

REMOVE EXISTING WAVE GUARD. LEAVE READY TO RECEIVE NEW WAVE GUARD. REFER TO CONSTRUCTION & SIEMENS DRAWING FOR ADDITIONAL INFORMATION.
- 17

REMOVE EXISTING RF CEILING SHIELDING & CEILING GYPSUM BOARD. LEAVE READY TO RECEIVE NEW RF CEILING SHIELDING. REFER TO CONSTRUCTION & SIEMENS DRAWING FOR ADDITIONAL INFORMATION.
- 18

REMOVE EXISTING RF FLOOR SHIELDING. LEAVE READY TO RECEIVE NEW RF FLOOR SHIELDING. REFER TO CONSTRUCTION & SIEMENS DRAWING FOR ADDITIONAL INFORMATION.
- 19


REMOVE EXISTING RADIO FREQUENCY (RF) SHIELDING & GYPSUM BOARD. LEAVE READY TO RECEIVE NEW RF SHIELDING. REFER TO CONSTRUCTION DRAWING FOR ADDITIONAL INFORMATION.
- 20

CAREFULLY DISASSEMBLE AND REMOVE EXISTING RF DOOR. STORE FOR REINSTALLATION IN NEW CONFIGURATION (180°). REFER TO CONSTRUCTION DRAWING FOR ADDITIONAL INFORMATION.
- 21

REMOVE EXISTING AC UNIT. LEAVE READY TO RECEIVE NEW UNIT. REFER TO CONSTRUCTION AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 22

REMOVE EXISTING MAGNET AND ALL RELATED COMPONENTS.

OWNER:



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SITE PLAN



CLARKSON STREET
EAST 37TH STREET

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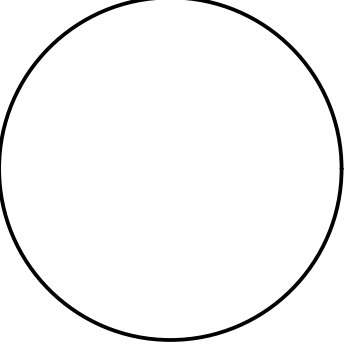
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**FIRST FLOOR
DEMOLITION PLAN**

SEAL & SIGNATURE:



DATE:

MARCH 01, 2010

JBA PROJECT NO.

1367

DRAWN:

MD

SCALE:

AS NOTED

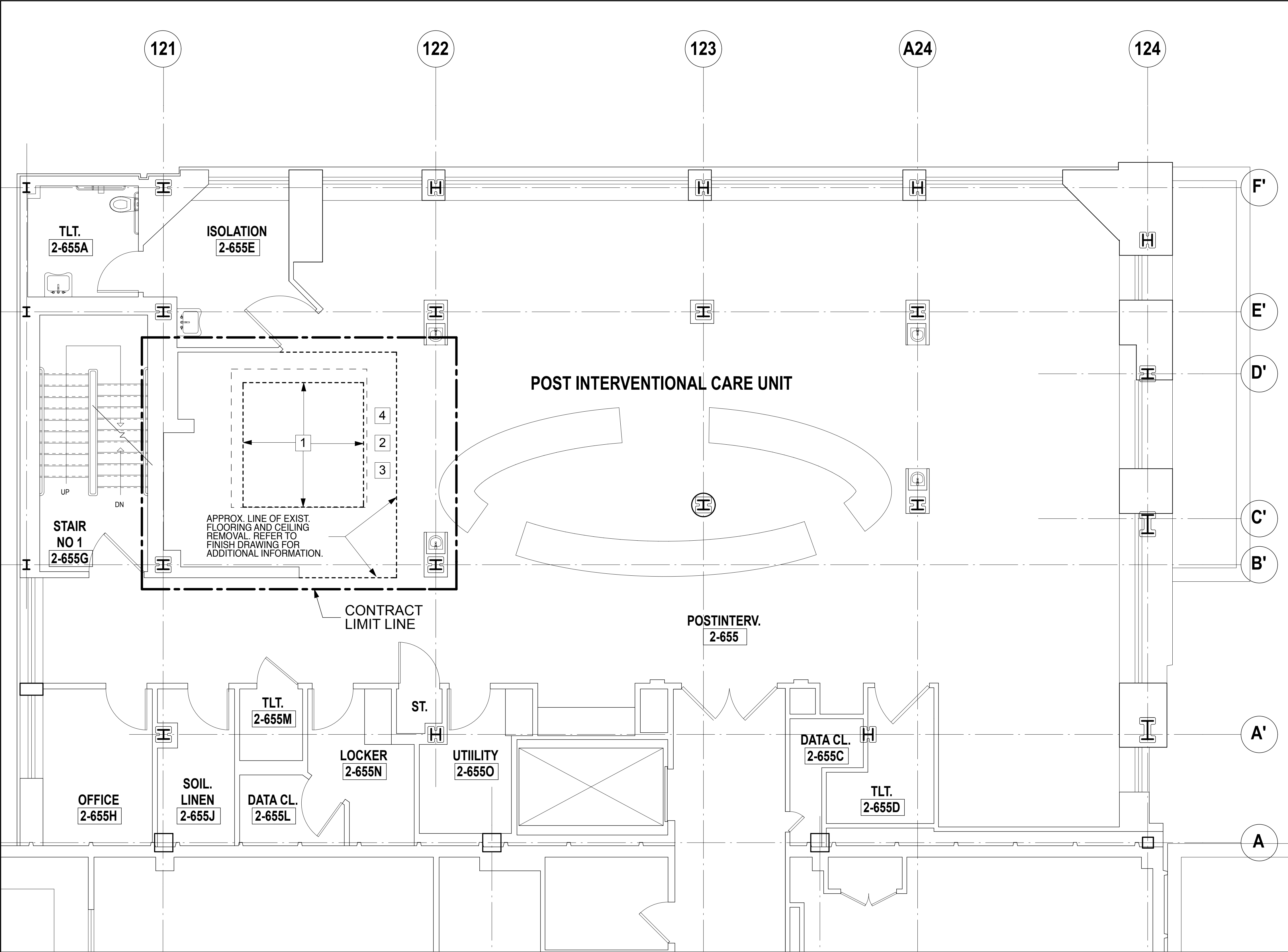
DRAWING NO.

A-100.00

CAD FILE NO.

PROGRESS SET:

12/10/12



GENERAL DEMOLITION NOTES:

A - REFER TO MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR THE EXTENT OF THE SCOPE OF WORK.

B - ALL DIMENSIONS SHALL BE VERIFIED BY GENERAL CONTRACTOR PRIOR OF THE CONSTRUCTION AND OR FABRICATIONS.

C - **NOTE:**
IT IS GENERAL CONTRACTOR RESPONSIBILITIES TO DOCUMENT ALL EXISTING CEILING MOUNTED DEVICES PRIOR OF DEMOLITION FOR FUTURE REINSTALLATION.

CODED DEMOLITION NOTES

- 1 REMOVE EXISTING FLOORING, THIS AREA TO OPEN THE EXISTING FLOOR HATCH FOR REMOVING EXISTING MAGNET AND REPLACING WITH NEW MAGNET.
- 2 REMOVE EXISTING FLOORING WITHIN AREA AS SHOWN.
- 3 REMOVE EXISTING ACOUSTICAL CEILING AND ALL COMPONENTS WITHIN AREA AS SHOWN. LEAVE READY TO RECEIVE NEW CEILING GRID, NEW ACOUSTIC TILES AND NEW SPRINKLER HEADS AT EXISTING LOCATIONS. REFER TO GENERAL DEMOLITION NOTE "C".
- 4 CAREFULLY REMOVE EXISTING LIGHT FIXTURES / REGISTERS, SPEAKERS, EXIT SIGNS, CURTAIN TRACKS AND DRAPERY, ETC., AND STORE FOR REINSTALLATION. REFER TO DEMOLITION GENERAL NOTE "C" FOR REINSTALLATION OF EXISTING.

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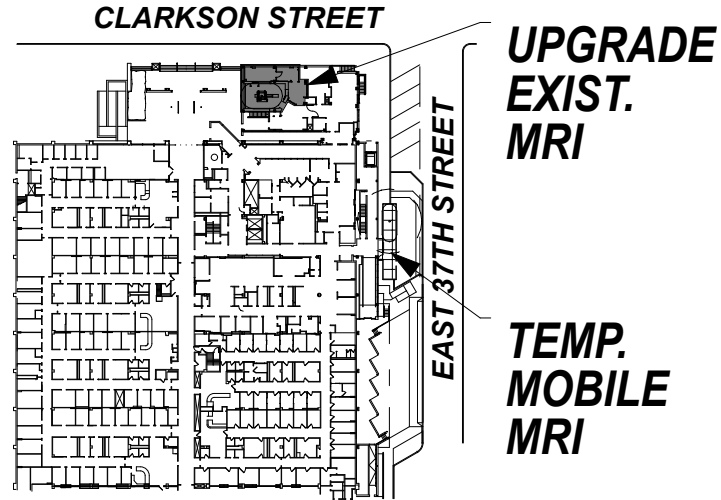
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SITE PLAN



ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
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Issued for Review - 100% CD	12.17.2012

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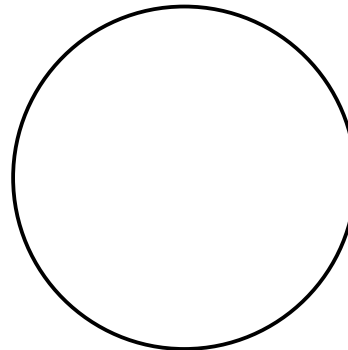
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**SECOND FLOOR
DEMOLITION PLAN**

SEAL & SIGNATURE:

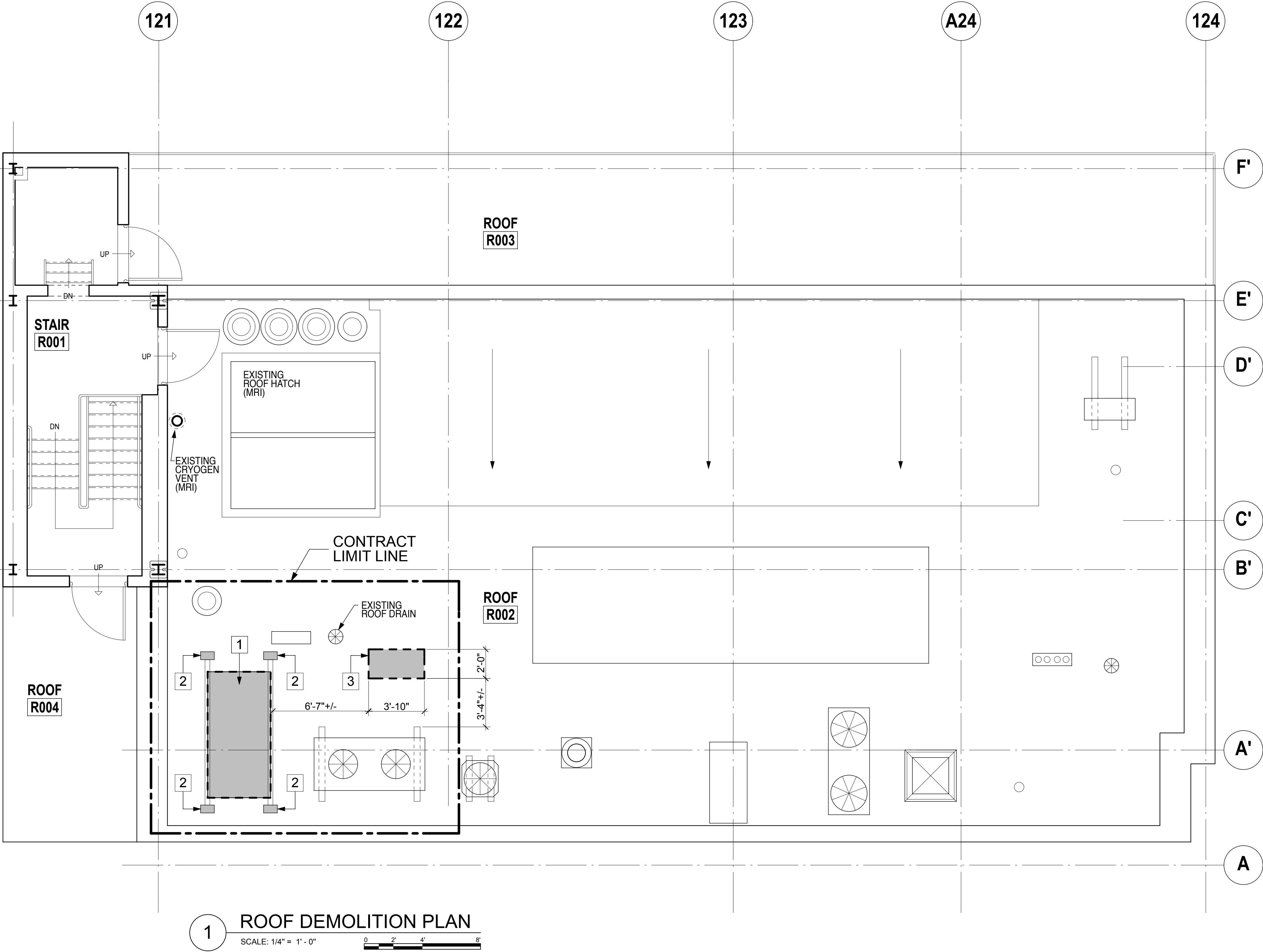


DATE:	MARCH 01, 2010
JBA PROJECT NO.	1367
DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	

A-101.00

CAD FILE NO.

**PROGRESS SET:
12/10/12**



GENERAL DEMOLITION NOTES:
1 - PATCH TO MATCH ROOFING AND FINISHES AFTER ROOF EQUIPMENT DEMOLITION / REMOVAL.


CODED DEMOLITION NOTES

1 REMOVE EXISTING CHILLER AND ALL RELATED COMPONENTS. LEAVE READY TO RECEIVE NEW CHILLER. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

2 REMOVE PORTION OF EXISTING ROOFING AS SHOWN. LEAVE READY TO RECEIVE NEW EXTENDED ROOF DUNNAGE. REFER TO ROOF CONSTRUCTION FOR ADDITIONAL INFORMATION

3 REMOVE PORTION OF EXISTING ROOFING AS SHOWN (APPROXIMATE). LEAVE READY TO RECEIVE NEW CONCRETE CURB.

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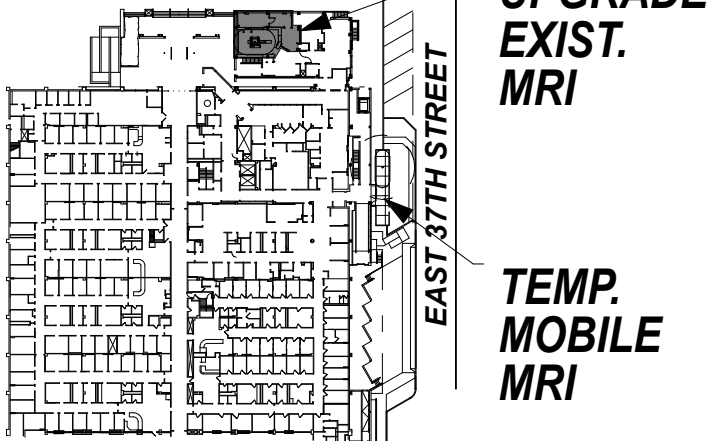
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SITE PLAN



CLARKSON STREET
EAST 37TH STREET
UPGRADE EXIST. MRI
TEMP. MOBILE MRI

ISSUES:

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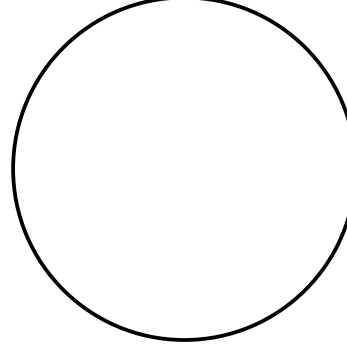
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ROOF DEMOLITION
PLAN**

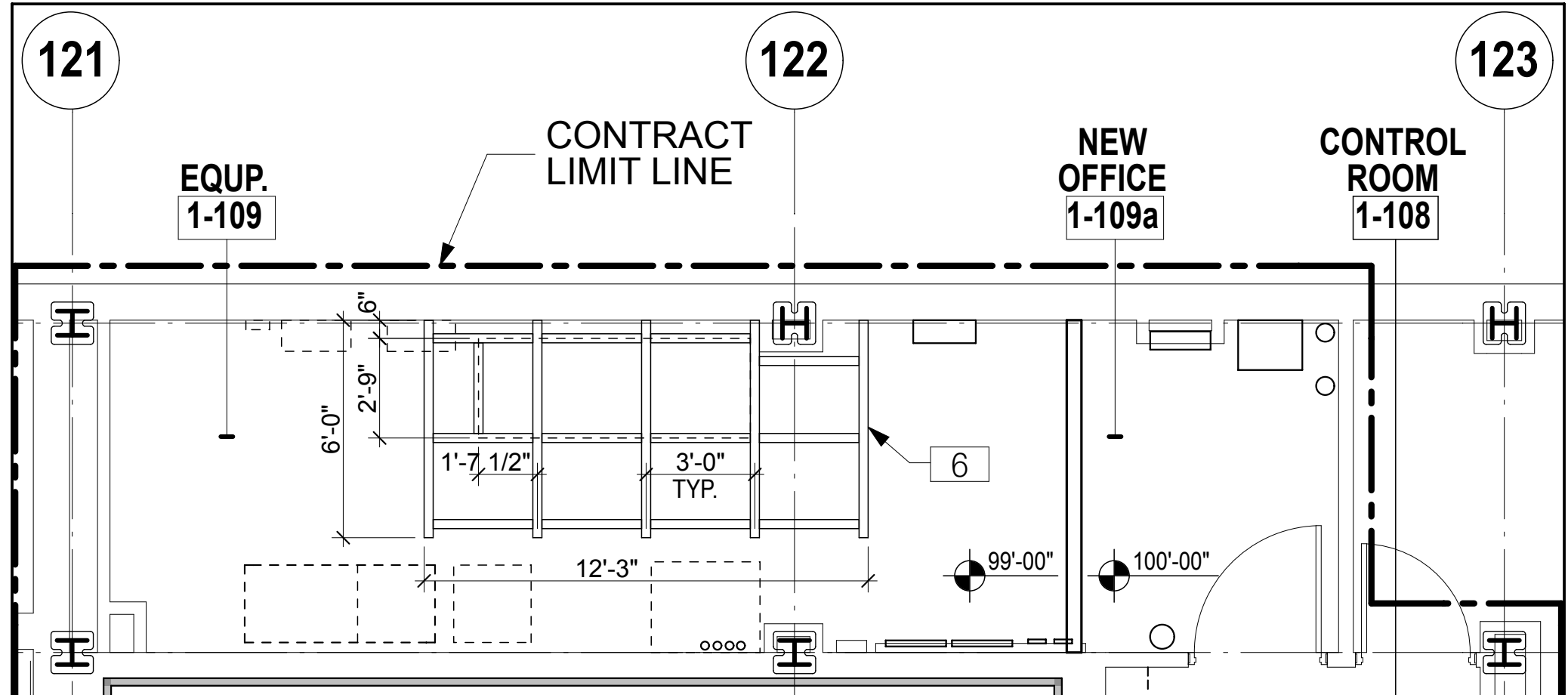
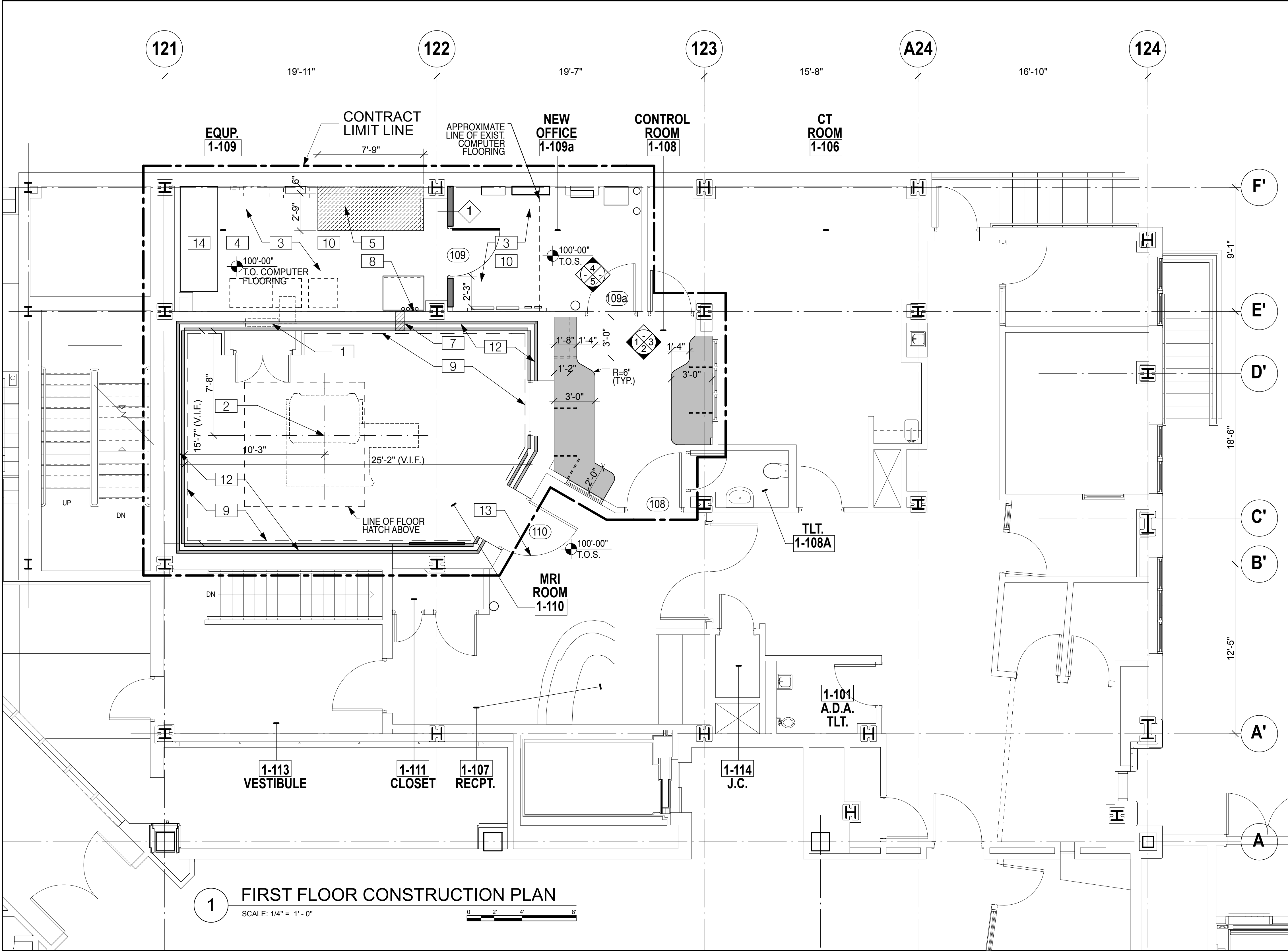
SEAL & SIGNATURE:



DATE:	MARCH 01, 2010
JBA PROJECT NO.	1367
DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	A-102.00
CAD FILE NO.	

PROGRESS SET:

12/10/12

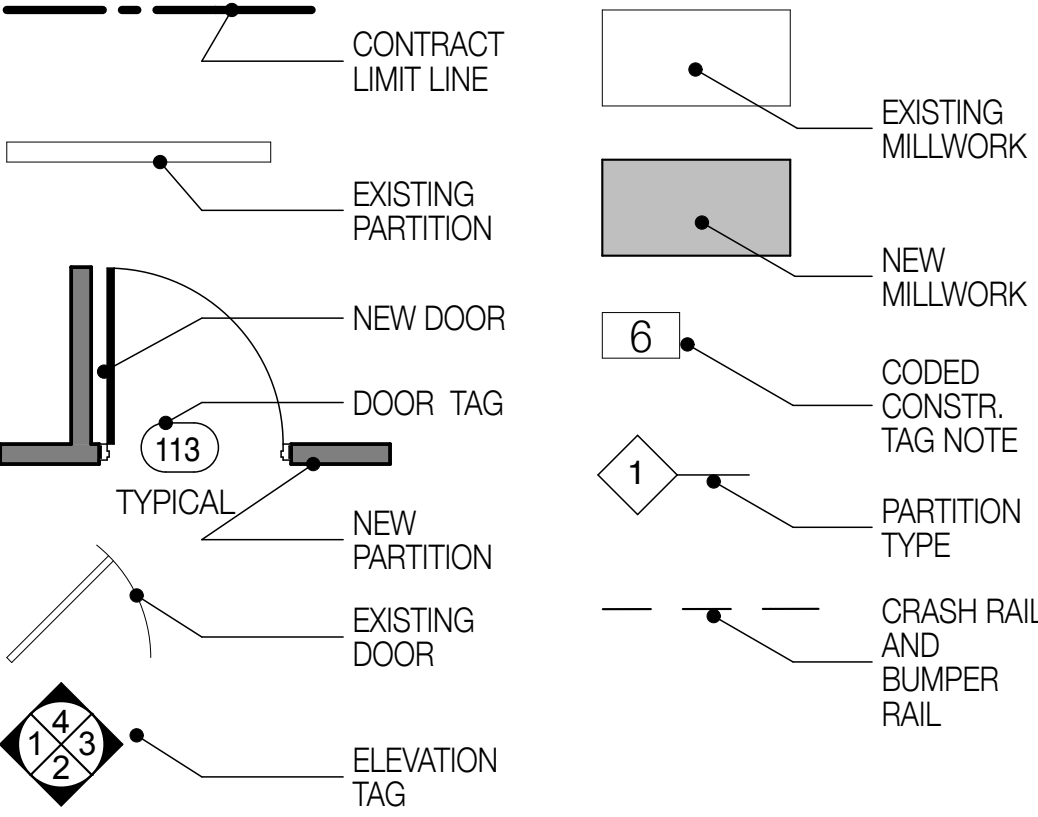


NOTE:
USE OF METALS OR FERROUS MATERIALS ARE PROHIBITED WITHIN R.F. ROOM.

MRI ROOM CONSTRUCTION NOTES:

- A - TEST RF ROOM FOR INTEGRITY & SIEMENS SPECIFICATIONS.
- B - INSTALL NEW PENETRATIONS, WAVE GUARDS, ISOLATOR FITTINGS AND REFINISH FOR NEW WORK.
- C - RETEST ROOM FOR RF SHIELDING PERFORMANCE
- D - REPAIR ANY RF SHIELDING DEFICIENCIES
- E - INSTALL BELL BOX WARNING SYSTEM.
- F - REPLACE FINISHES. REFER TO FINISH PLAN & SCHEDULE.

CONSTRUCTION LEGEND:



GENERAL CONSTRUCTION NOTES:

- A - PROVIDE WOOD GROUND FOR ALL ATTACHMENTS IN THE MRI ROOM
- C - REFER TO MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR THE EXTENT OF THE SCOPE OF WORK.
- D - ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR OF THE CONSTRUCTIONS AND OR FABRICATIONS.
- E - ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD, UNLESS OTHERWISE NOTED.

CODED CONSTRUCTION NOTES:

- 1 NEW PENETRATION FILTER PANEL (N.I.C.).
- 2 EXISTING ISOCENTER (TO REMAIN).
- 3 NEW COMPUTER FLOORING PANEL. REFER TO FINISH PLAN
- 4 VERIFY EXISTING DRAINAGE.
- 5 NEW OPENING ON EXITING COMPUTER / RAISED FLOORING.
- 6 NEW W6 STEEL BEAM PLATFORM TO SPREAD LOAD OF NEW UPS CABINET. PROVIDE STEEL SHIMMING TO LEVEL THE FINISH FLOOR AS REQUIRED.
- 7 NEW FILTER / WAVE GUARD. REFER TO SIEMENS SPECIFICATIONS AND REQUIREMENT.
- 8 COVER EXISTING EXPOSED MED. GAS. AND PATCH GYPSUM BOARD TO MATCH EXISTING. PEROUT EXISTING MED. GAS THROUGH NEW WAVE GUARD.
- 9 CRASH RAIL & BUMPER RAIL. REFER TO EQUIPMENT / FURNITURE DRAWING FOR SPECIFICATIONS.
- 10 PROVIDE PERFORATED ACCESS FLOORING PANELS. REFER TO FINISH PLAN. VACUUM AND CLEAN UNDERNEATH OF EXISTING ACCESS FLOOR PANELING PRIOR OF INSTALLATION NEW ACCESS FLOOR PANELS.
- 11 NOT USED
- 12 NEW RF SHIELDING PARTITION. REFER TO A-601 FOR PARTITION TYPE AND CONSTRUCTION.
- 13 EXISTING RECONFIGURED (180") RF DOOR BY SHIELDING MANUFACTURER. NOTE: GENERAL CONTRACTOR TO VERIFY NEW SWING DOOR AND EXISTING RAMP FROM RECEPTION AREA TO MRI ROOM PRIOR OF INSTALLATION RF DOOR.
- 14 NEW AC UNIT. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

RF ROOM PENETRATION SCHEDULE

NO.	DESCRIPTION	NOTES
1	CRYOGEN VENT	
-	ELECTRICAL CONVENIENT OUTLETS - 2 CIRCUITS	
-	OXYGEN	
-	VACUUM	
-	HVAC - SUPPLY & RETURN	
-	ROOM VENT	
-	EMERGENCY EXHAUST	
-	ROOF HATCH FOR DELIVERY	
-	FIBEROPTIC CABLE	
-	LIGHTS - 3 CIRCUITS	
-	FIRE ALARMS	
-	SPRINKLER	

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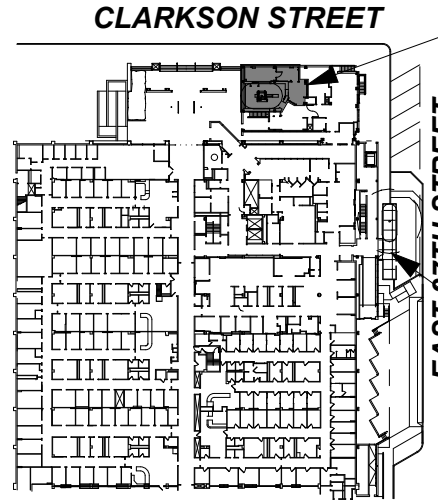
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SITE PLAN



UPGRADE
EXIST.
MRI

TEMP.
MOBILE
MRI

ISSUES:

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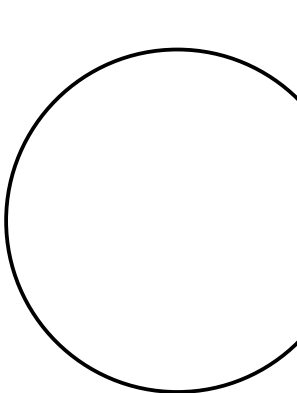
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**FIRST FLOOR
CONSTRUCTION
PLAN**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

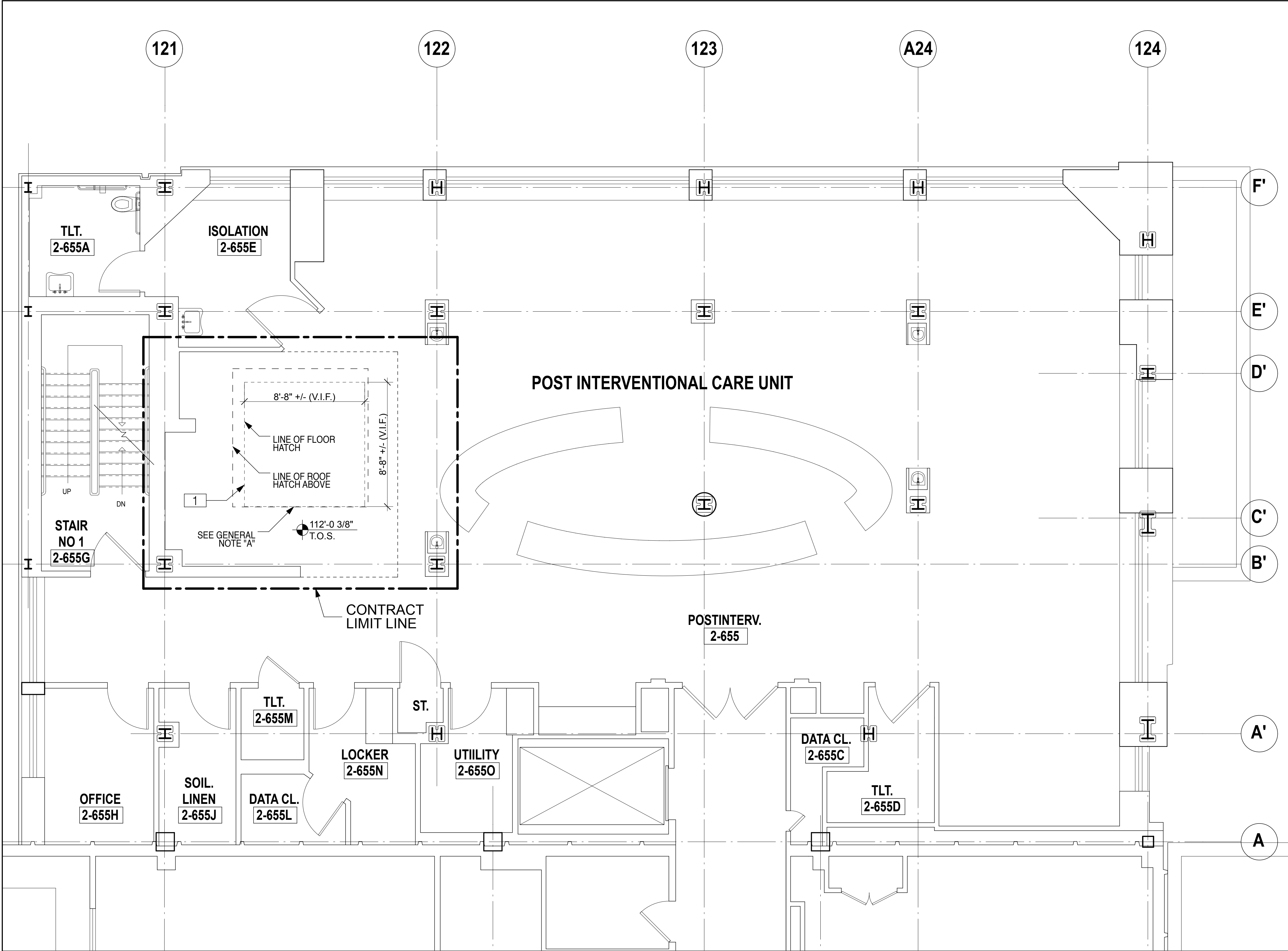
SCALE: AS NOTED

DRAWING NO.

A-200.00

CAD FILE NO.

**PROGRESS SET:
12/10/12**



GENERAL CONSTRUCTION NOTES:

A - VERIFY ALIGNMENT OF EXISTING SECOND FLOOR HATCH (OPEN TO FIRST FLOOR MRI ROOM) AND EXISTING ROOF HATCH FOR REMOVAL OF EXISTING MAGNET AND PLACING NEW MAGNET. GENERAL CONTRACTOR TO COORDINATE THE RIGGING PROCESS WITH MAGNET PROVIDER (SIEMENS) SPECIFICATIONS.

B - ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR OF THE CONSTRUCTIONS AND OR FABRICATIONS.

C - REFER TO MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR THE EXTENT OF THE SCOPE OF WORK.

CODED CONSTRUCTION NOTES:

- 1
- EXISTING FLOOR HATCH TO REMAIN. OPEN THIS HATCH FOR REMOVAL OF EXISTING MAGNET AND PLACING NEW MAGNET. REFER TO PHASING PLAN FOR ADDITIONAL INFORMATION.

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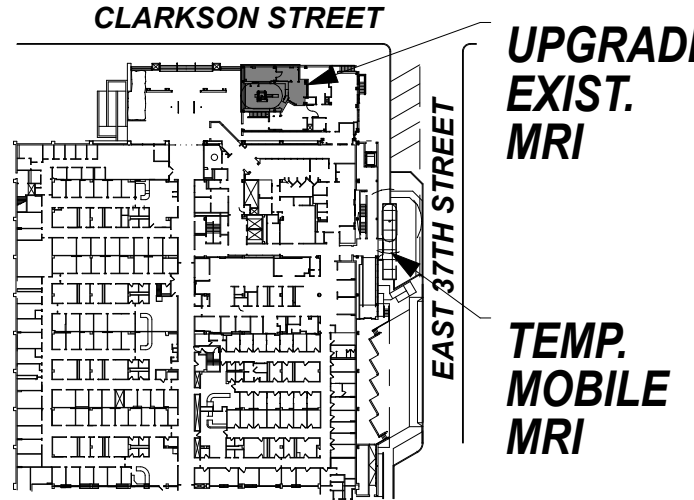
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SITE PLAN



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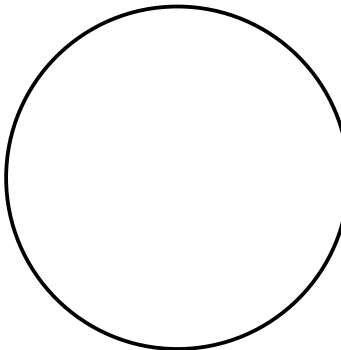
PROJECT TITLE

PHASE "2":
UPGRADING
EXISTING MRI

DRAWING TITLE

SECOND FLOOR
CONSTRUCTION
PLAN

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

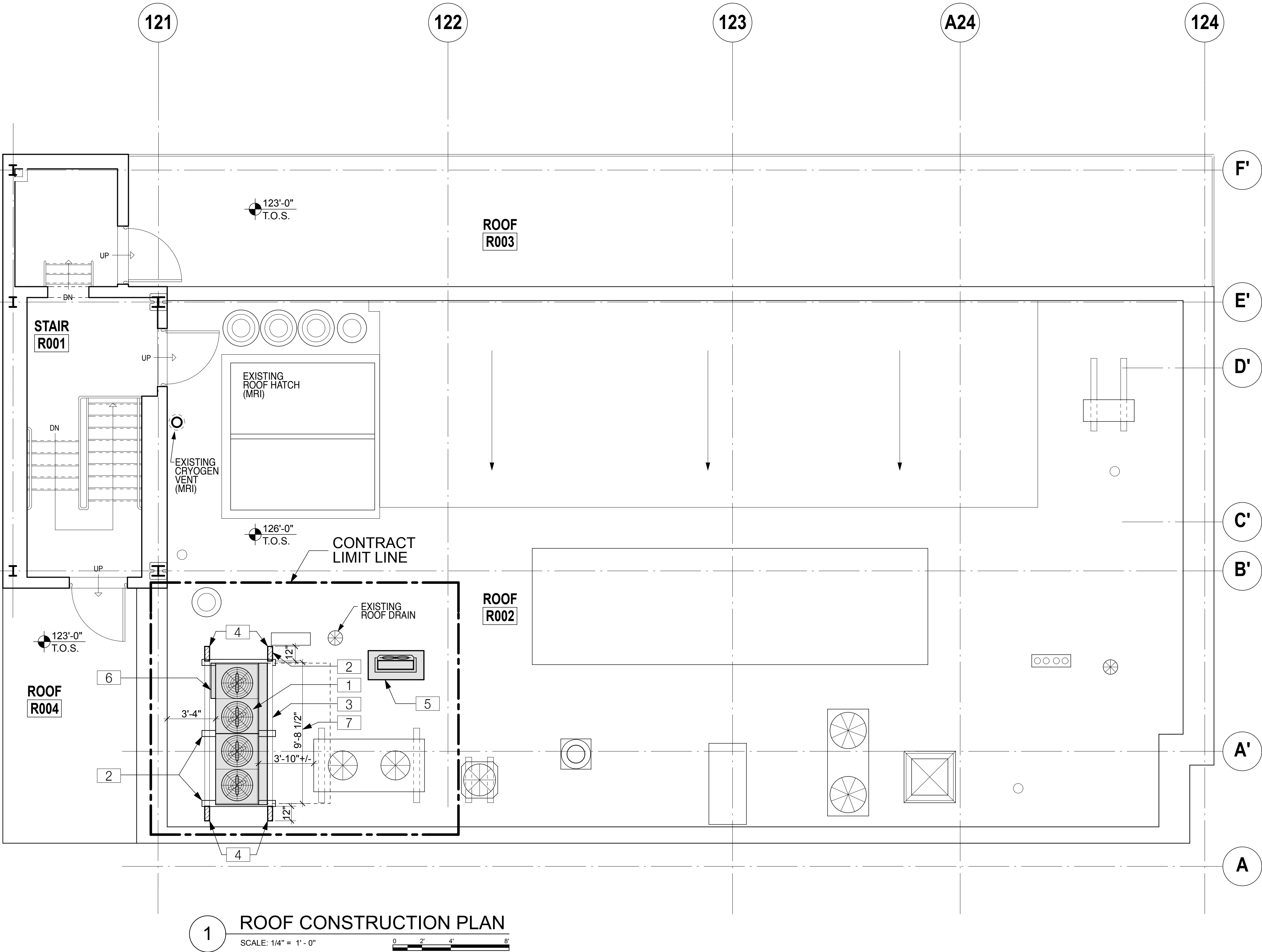
SCALE: AS NOTED

DRAWING NO.

A-201.00

CAD FILE NO.

PROGRESS SET:
12/10/12




GENERAL CONSTRUCTION NOTES:

- A - REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR THE EXTENT OF THE SCOPE OF WORK.
- B - ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR OF THE CONSTRUCTIONS AND OR FABRICATIONS.
- C - ROOFING WORK SHALL BE DONE BY LICENSED APPLICATOR FOR NEW WORK TO ASSURE OWNERS EXISTING WARRANTY(S).

CODED CONSTRUCTION NOTES:

- 1 NEW CHILLER. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 NEW ISOLATORS ON REUSE EXISTING STEEL CHILLER ISOLATION SUPPORT (BEAMS). REFER TO MECHANICAL DRAWINGS FOR ISOLATOR SPECIFICATION.
- 3 EXISTING ROOF DUNNAGE TO REMAIN.
- 4 NEW EXTENDED ROOF DUNNAGE. PATCH ROOFING TO MATCH EXISTING.
- 5 NEW OUTDOOR CONDENSING UNIT WITH 4" THICK CONCRETE PAD. PATCH ROOF TO MATCH. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 CILLER ACCESS PANEL.
- 7 VERIFY AND COORDINATE DIMENSIONS WITH SIEMENS CHILLER SPECIFICATIONS.

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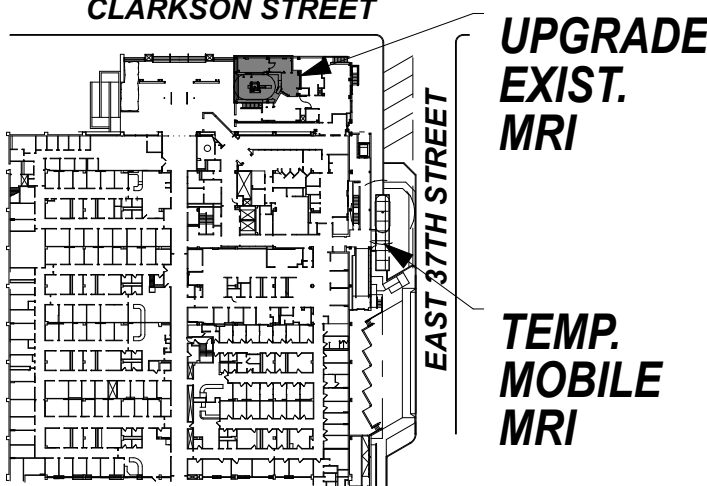
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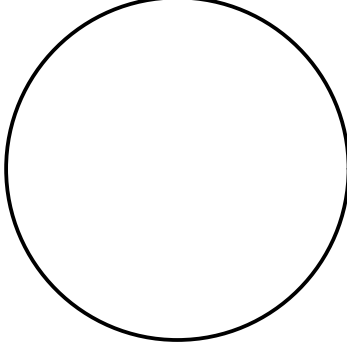
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ROOF
CONSTRUCTION
PLAN**

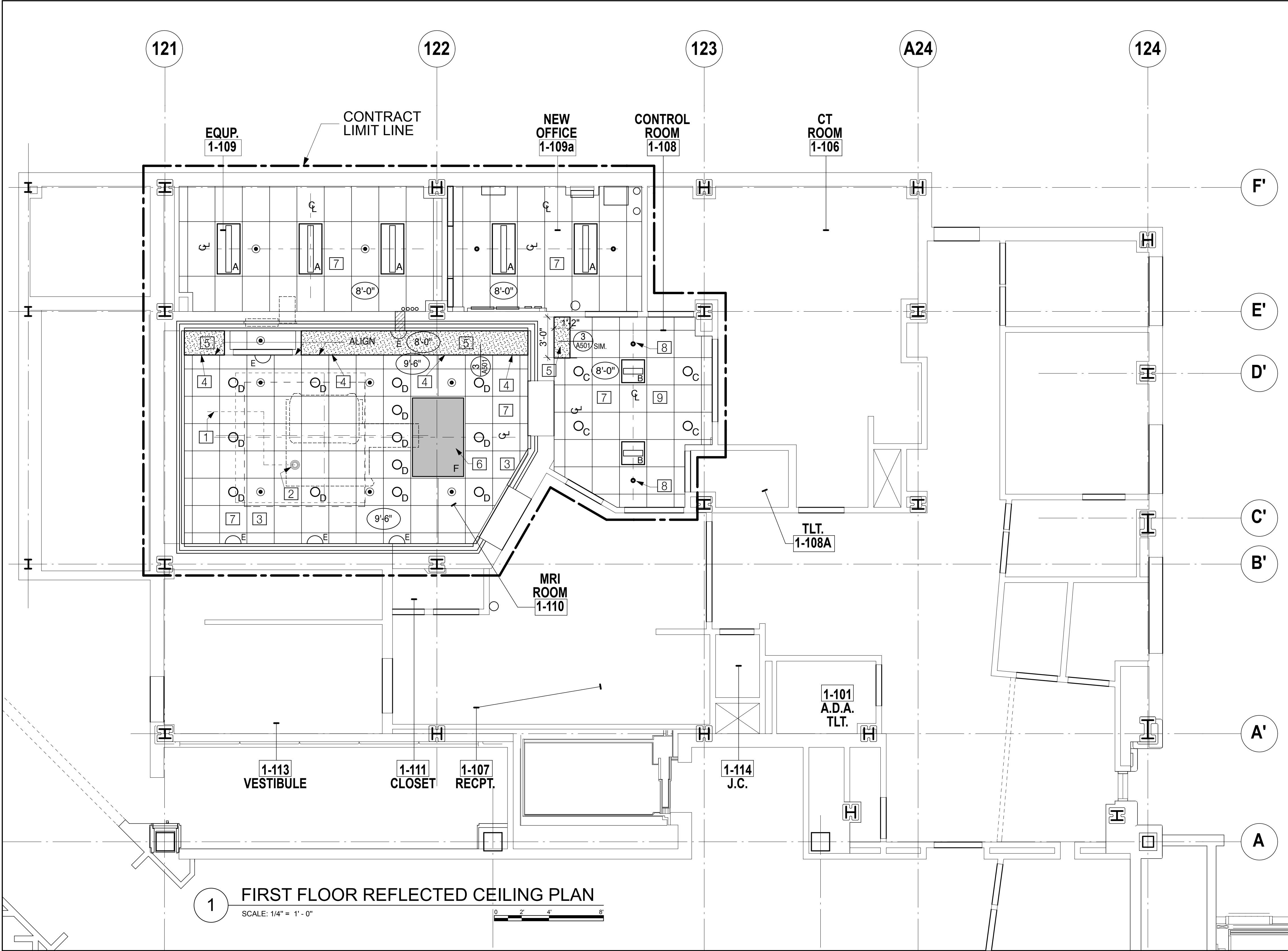
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DATE:	MARCH 01, 2010
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DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	A-202.00
CAD FILE NO.	

PROGRESS SET:

12/10/12



LIGHT SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
A	RECESSED 24X48 FLUORESCENT	LINEAR LIGHTING	HYBRID-HB24	LAMPS: F14W
B	RECESSED 24X24 FLUORESCENT	LINEAR LIGHTING	HYBRID-HB22	LAMPS: F14W
C	DIMMABLE RECESSED DOWNLIGHT	LIGHTOLIER	8056	
D	RECESSED DIMMABLE DOWNLIGHT	ETS-LINDGREN	MED-VISION ZXR LED	NON FERROUS
E	SURFACE WALL MOUNTED DIMMABLE	KENELL	MRIMAS813 S, NL, MW, 22L3K, DM	NON FERROUS
F	CEIL. MT. ILLUMINATED DECORATIVE	ETS-LINDGREN	MED-VISION CEILING GDP GRAPHIC DISPLAY PANEL	NON FERROUS
G	REINSTALL EXISTING RECESSED 24 X 24	-	-	-
H	REINSTALL EXISTING RECESSED DOWNLIGHT	-	-	-
J	REINSTALL EXISTING DOME LIGHT	-	-	-

GENERAL NOTE:
FOR ADDITIONAL INFORMATION REFER TO ELECTRICAL DRAWINGS.

NOTE:
USE OF METALS OR FERROUS MATERIALS ARE PROHIBITED WITHIN R.F. ROOM.

REFLECTED CEILING LEGEND:

- CONTRACT LIMIT LINE
- CEILING CENTER LINE
- NEW CEILING GRID LINE & NEW ACOUSTIC CEILING TILE
- CEILING HEIGHT
- SPRINKLER HEAD
- PRE-ACTION SPRINKLER HEAD
- EXIT SIGNS
- CEILING MOUNTED SPEAKER
- WALL SCONCE LIGHT FIXTURE
- NEW SOFFIT
- ILLUMINATED DECORATIVE CEILING PANEL
- SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.
- RETURN DIFFUSER. REFER TO MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.
- 24 X 24 FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.
- DOWNLIGHT FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.
- 24 X 48 FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.

GENERAL REFLECTED CEILING NOTES:

- A - CEILING HEIGHT ARE 8'-0" UNLESS OTHERWISE NOTED.
- B - ALL LIGHTS IN THE MAGNET AREA ON DC POWER.
- C - PROVIDE PRE-ACTION SPRINKLER SYTEM IN MAGNET ROOM AND EQUIPMENT ROOM.

CODED REFLECTED CEILING NOTES:

- 1 EXISTING CRYOGEN PIPE LOCATION THROUGH CEILING TO REMAIN.
- 2 EXISTING CRYOGEN VENT.
- 3 USE OF FERROUS MATERIAL IS PROHIBITED THROUGHOUT INSIDE MRI RF SHIELDED ROOM.
- 4 PROVIDE NEW WALL MOUNTED DIFFUSER AND OR REGISTERS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 NEW SOFFIT.
- 6 BACKLID / ILLUMINATED DECORATIVE PANEL.
- 7 REINSTALL SPEAKERS AND FIRE ALARM DEVICES.
- 8 ADJUST LOCATION OF EXISTING SPRINKLER HEADS WITH NEW GRID SYSTEM.
- 9 ALIGNED NEW CEILING GRID WITH EXISTING.

CEILING TYPES:

SYSTEM TILE CEILING TYPE "1"
SYSTEM GRID CEILING TYPE "1"

NOTE: REFER TO SPECIFICATIONS FOR CEILING TYPES.

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SITE PLAN

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

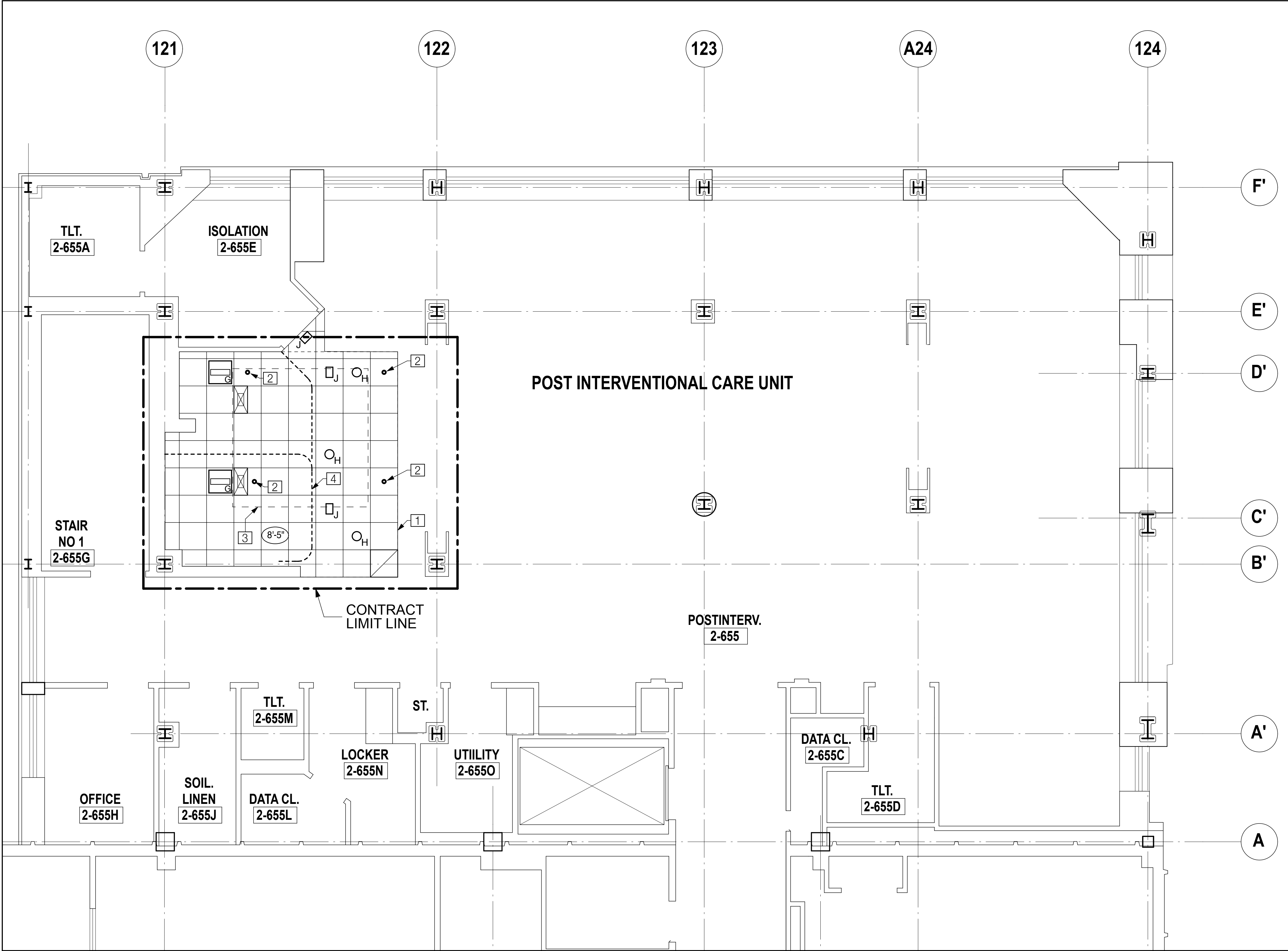
DRAWING TITLE

**FIRST FLOOR
REFLECTED
CEILING PLAN**

SEAL & SIGNATURE:

DATE: MARCH 01, 2010
JBA PROJECT NO. 1367
DRAWN: MD
SCALE: AS NOTED
DRAWING NO.
A-300.00
CAD FILE NO.

**PROGRESS SET:
12/10/12**



LIGHT SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
A	RECESSED 24X48 FLUORESCENT	LINEAR LIGHTING	HYBRID-HB24	LAMPS: F14W
B	RECESSED 24X24 FLUORESCENT	LINEAR LIGHTING	HYBRID-HB22	LAMPS: F14W
C	DIMMABLE RECESSED DOWNLIGHT	LIGHTOLIER	8056	
D	RECESSED DIMMABLE DOWNLIGHT	ETS-LINDGREN	MED-VISION ZXR LED	NON FERROUS
E	SURFACE WALL MOUNTED DIMMABLE	KENELL	MRIMAS813 S, NL, MW, 22L3K, DM	NON FERROUS
F	CEIL. MT. ILLUMINATED DECORATIVE	ETS-LINDGREN	MED-VISION CEILING GDP GRAPHIC DISPLAY PANEL	NON FERROUS
G	REINSTALL EXISTING RECESSED 24 X 24	-	-	-
H	REINSTALL EXISTING RECESSED DOWNLIGHT	-	-	-
J	REINSTALL EXISTING DOME LIGHT	-	-	-

GENERAL NOTE:
FOR ADDITIONAL INFORMATION REFER TO ELECTRICAL DRAWINGS.

REFLECTED CEILING LEGEND:

CONTRACT LIMIT LINE

CEILING CENTER LINE

NEW CEILING GRID LINE & NEW ACOUSTIC CEILING TILE

CEILING HEIGHT

SPRINKLER HEAD

PRE-ACTION SPRINKLER HEAD

EXIT SIGNS

CEILING MOUNTED SPEAKER

WALL SCONCE LIGHT FIXTURE

NEW SOFFIT

ILLUMINATED DECORATIVE CEILING PANEL

SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

RETURN DIFFUSER. REFER TO MECHANICAL DRAWING FOR ADDITIONAL INFORMATION.

24 X 24 FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.

DOWNLIGHT FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.

24 X 48 FLUORESCENT CEILING LIGHT FIXTURE. REFER TO LIGHT SCHEDULE FOR ADDITIONAL INFORMATION.

GENERAL REFLECTED CEILING NOTES:

A - -

CODED REFLECTED CEILING NOTES:

- 1

ALIGNED NEW CEILING GRID WITH EXISTING GRID.
- 2

ADJUST LOCATION OF EXISTING SPRINKLER HEADS WITH NEW GRID SYSTEM.
- 3

LINE OF EXISTING ROOF HATCH. VERIFY IN FIELD.
- 4

REINSTALLED EXISTING CURTAIN TRACK.

CEILING TYPES:

SYSTEM TILE CEILING TYPE "1"
SYSTEM GRID CEILING TYPE "1"

NOTE: REFER TO SPECIFICATIONS FOR CEILING TYPES.

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SITE PLAN

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review - 100% CD	03.01.2010
Issued for Review - 100% CD	12.17.2012

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**SECOND FLOOR
REFLECTED
CEILING PLAN**

SEAL & SIGNATURE:

DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

SCALE: AS NOTED

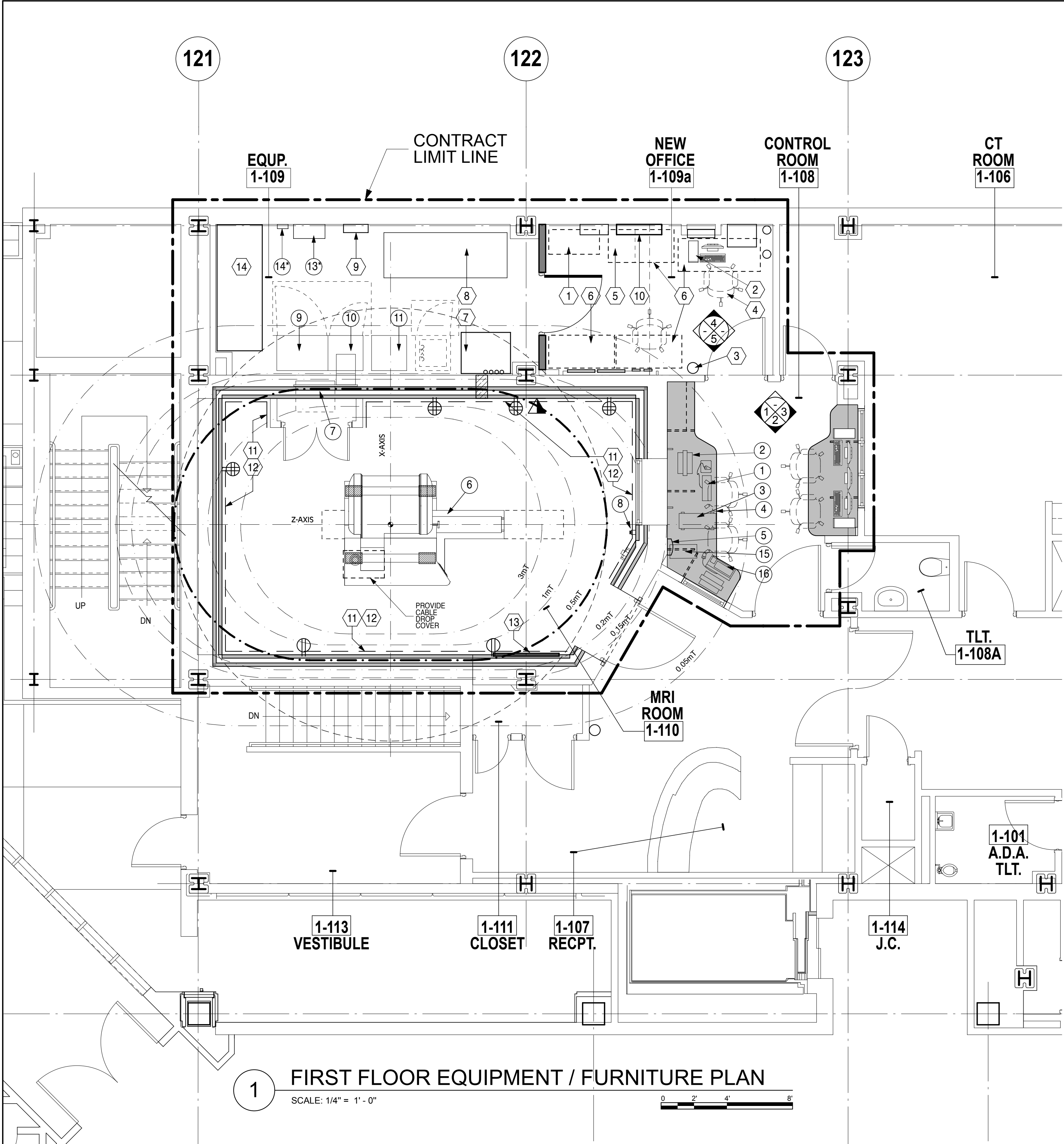
DRAWING NO.

A-301.00

CAD FILE NO.

PROGRESS SET:

12/10/12



NOTE:
USE OF METALS OR FERROUS MATERIALS ARE PROHIBITED WITHIN R.F. ROOM.

GENERAL EQUIPMENT / FURNITURE NOTES:

- A - REFER TO "SIEMENS" DRAWINGS FOR THE FOLLOWING SYBOLS SHOWN ON THE EQUIPMENT / FURNITURE PLAN SYMBOLS: (X)
B - ALL THE FURNITURE ARE NOT IN CONTRACT (NIC.) UNLESS OTHERWISE NOTED.

EQUIPMENT / FURNITURE SCHEDULE1					
NO.	ITEMS	MANUFACTURER / MODEL NUMBER	PROVIDED BY	INSTALLED BY	NOTES
1	LOCKER	FAMOUS LOCKERS - "Z" TIER - 7244 SUN WASH	GENERAL CONTRACTOR	GENERAL CONTRACTOR	11
2	MONITOR & COMPUTER	EXISTING	EXISTING	EXISTING	1
2a	MONITOR'S ARM	HUMANSCALE - MODEL: M7	GENERAL CONTRACTOR	GENERAL CONTRACTOR	12
2b	COMPUTER'S HOLDER	HUMANSCALE - MODEL: 555	GENERAL CONTRACTOR	GENERAL CONTRACTOR	12
3	FIRE EXTINGUISHER	EXISTING	EXISTING	EXISTING	2
4	CHAIR	HERMAN MILLER	OWNER	ONWER	1
5	UNDER COUNTER REFRIGERATOR	GE - GMR06APPBB	OWNER	OWNER	1
6	FURNITURE	HERMAN MILLER	OWNER	ONWER	1 & 6
7	PRE-ACTION SYSTEM	-	GENERAL CONTRACTOR	GENERAL CONTRACTOR	4
8	UNINTERRUPTIBLE POWER SYSTEM (UPS)	-	GENERAL CONTRACTOR	GENERAL CONTRACTOR	5
9	PRE-ACTION PANEL	-	GENERAL CONTRACTOR	GENERAL CONTRACTOR	8
10	NEW WALL MOUNTED SPLIT SYSTEM AC UNIT	-	GENERAL CONTRACTOR	GENERAL CONTRACTOR	7
11	CRASH RAIL	C/S GROUP	GENERAL CONTRACTOR	GENERAL CONTRACTOR	9
12	BUMPER RAIL	C/S GROUP	GENERAL CONTRACTOR	GENERAL CONTRACTOR	9
13	BACKLID / ILLUMINATED WINDOW	REFER TO DRAWING A-300	GENERAL CONTRACTOR	GENERAL CONTRACTOR	10
14	NEW AC	-	GENERAL CONTRACTOR	GENERAL CONTRACTOR	4, 5, 7 & 10


FURNITURE / EQUIPMENT NOTES:

- 1 - FURNITURE - NOT IN CONTRACT
2 - NON FERROUS. EXISTING TO BE VERIFIED.
3 - RELOCATED EXISTING.
4 - REFER TO PLUMBING / FIRE PROTECTION DRAWINGS.
5 - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6 - NEW FURNITURE (NIC)
7 - REFER TO MECHANICAL DRAWINGS FOR MANUFACTURER, SPECIFICATIONS & ADDITIONAL INFORMATION.
8 - NEW PANEL. REFER TO FIRE PROTECTION DRAWINGS.
9 - REFER TO FINISHES FOR ADDITIONAL INFORMATION.
10 - PROVIDE POWER
11 - SOLID PHENOLIC LOCKER
12 - GENERAL CONTRACTOR VERIFY INSTALLATION'S LOCATION AND QUANTITIES IN FIELD.

ELECTRICAL LEGEND:

- ⊕ SIMPLEX
⊕ DUPLEX
⊕ QUAD
◀ DATA
⚡ TELEPHONE DATA COMBINATION
K1 TELEPHONE
K1 W WALL MOUNTED TELEPHONE
46" MOUNTING HEIGHT INDICATION

OWNER:



**SUNY
Downstate**
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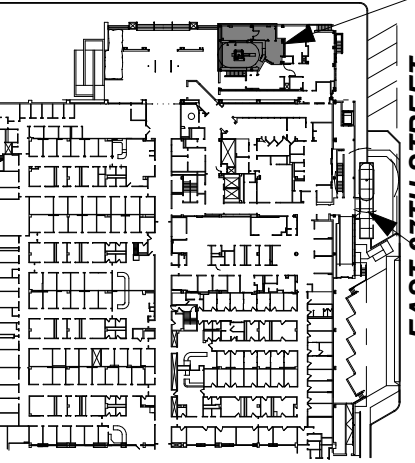
M.E.P. & FP. ENGINEERS:

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SITE PLAN



CLARKSON STREET
EAST 37TH STREET

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
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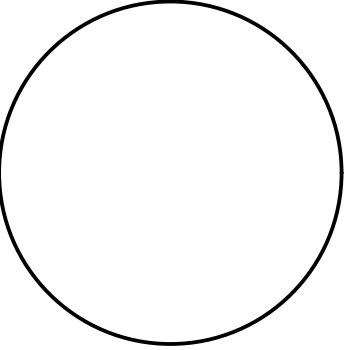
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

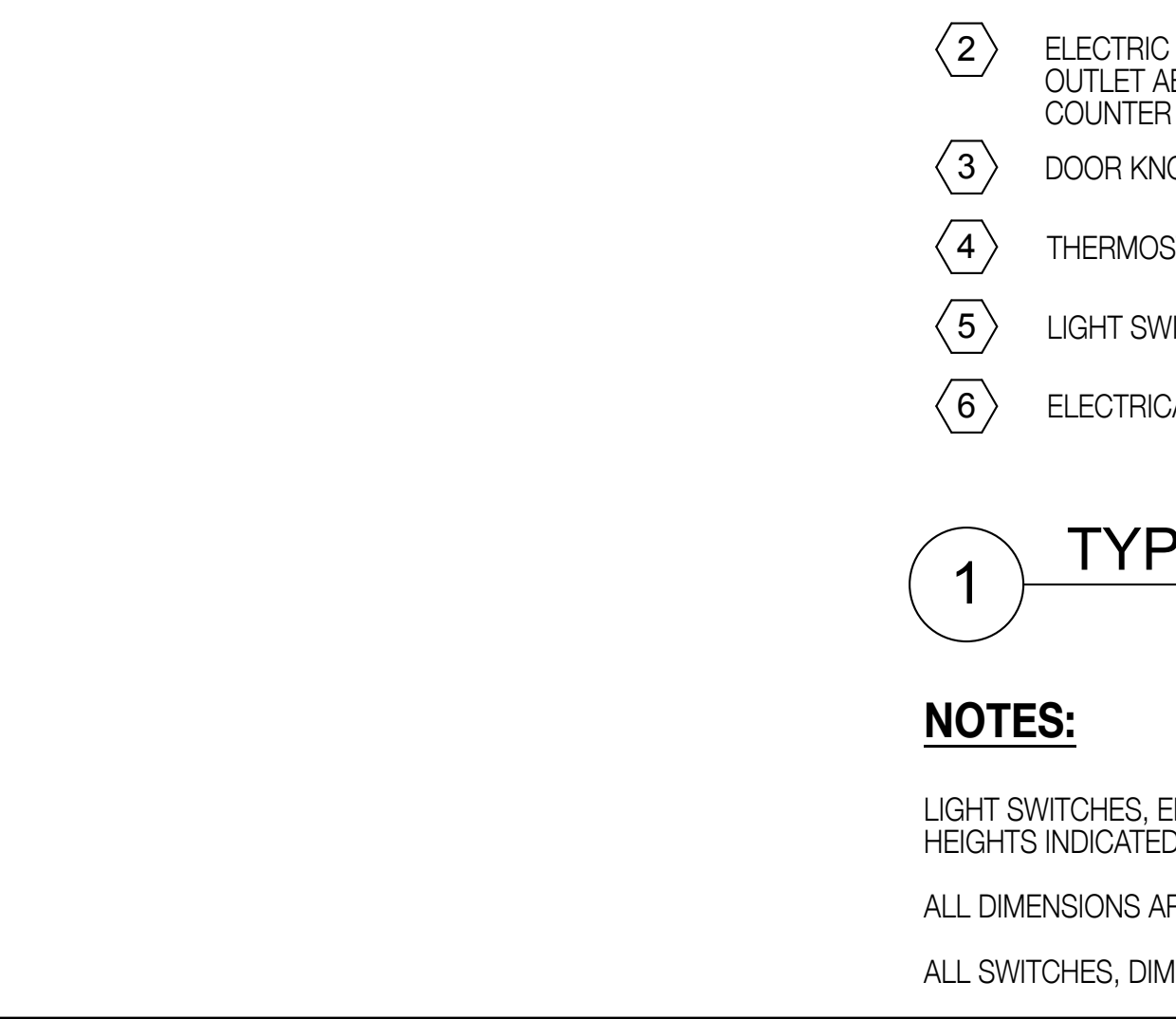
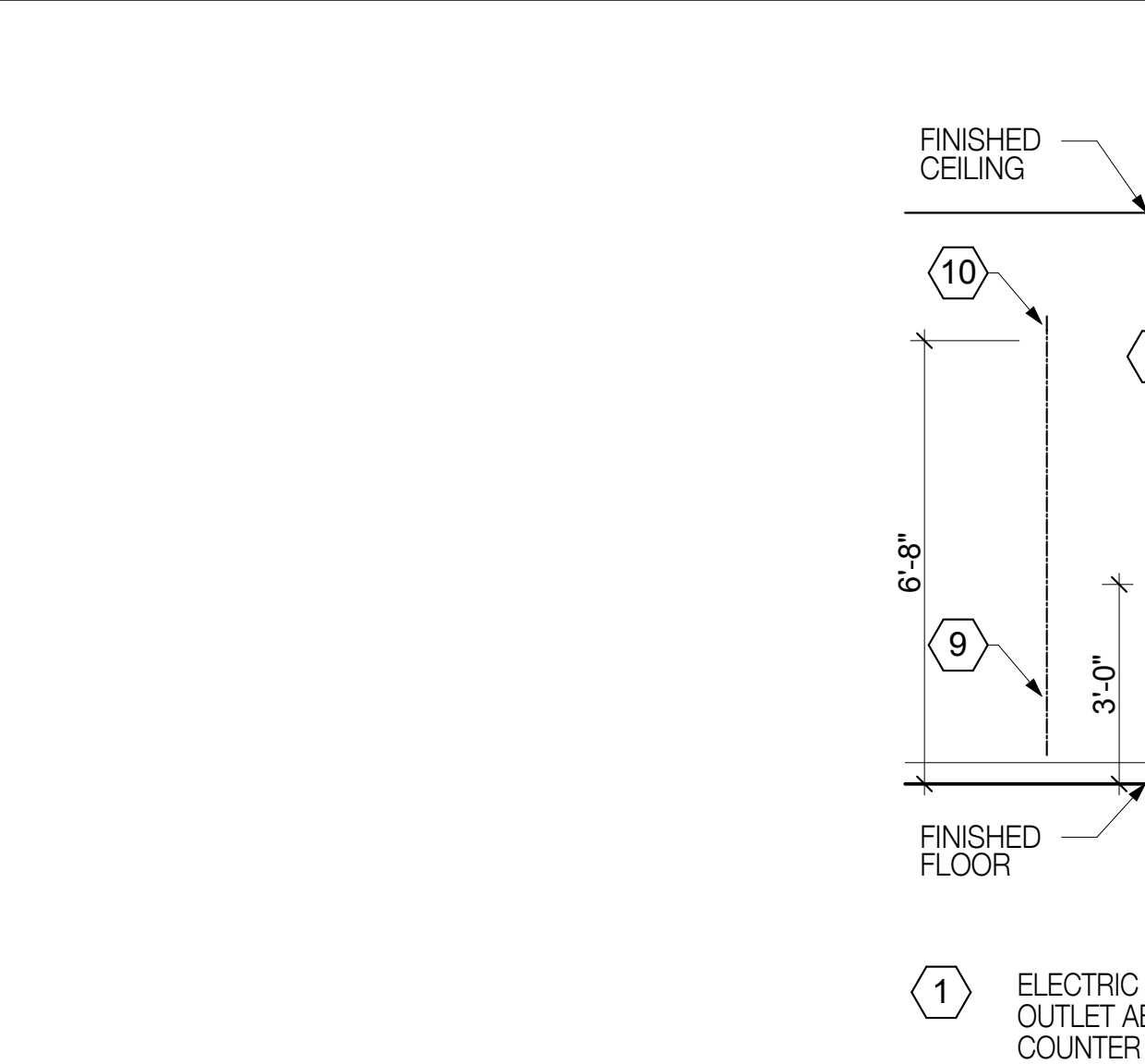
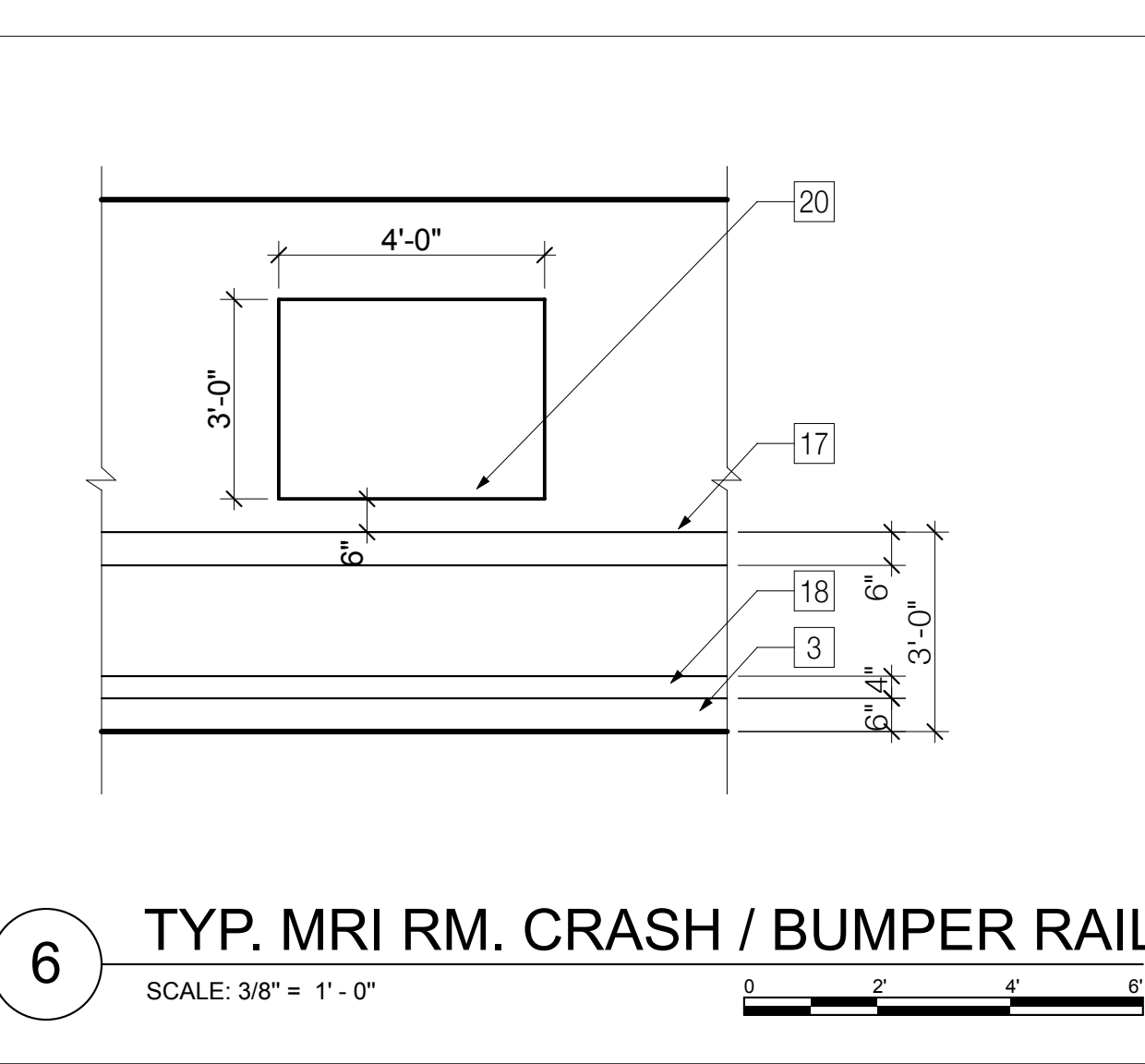
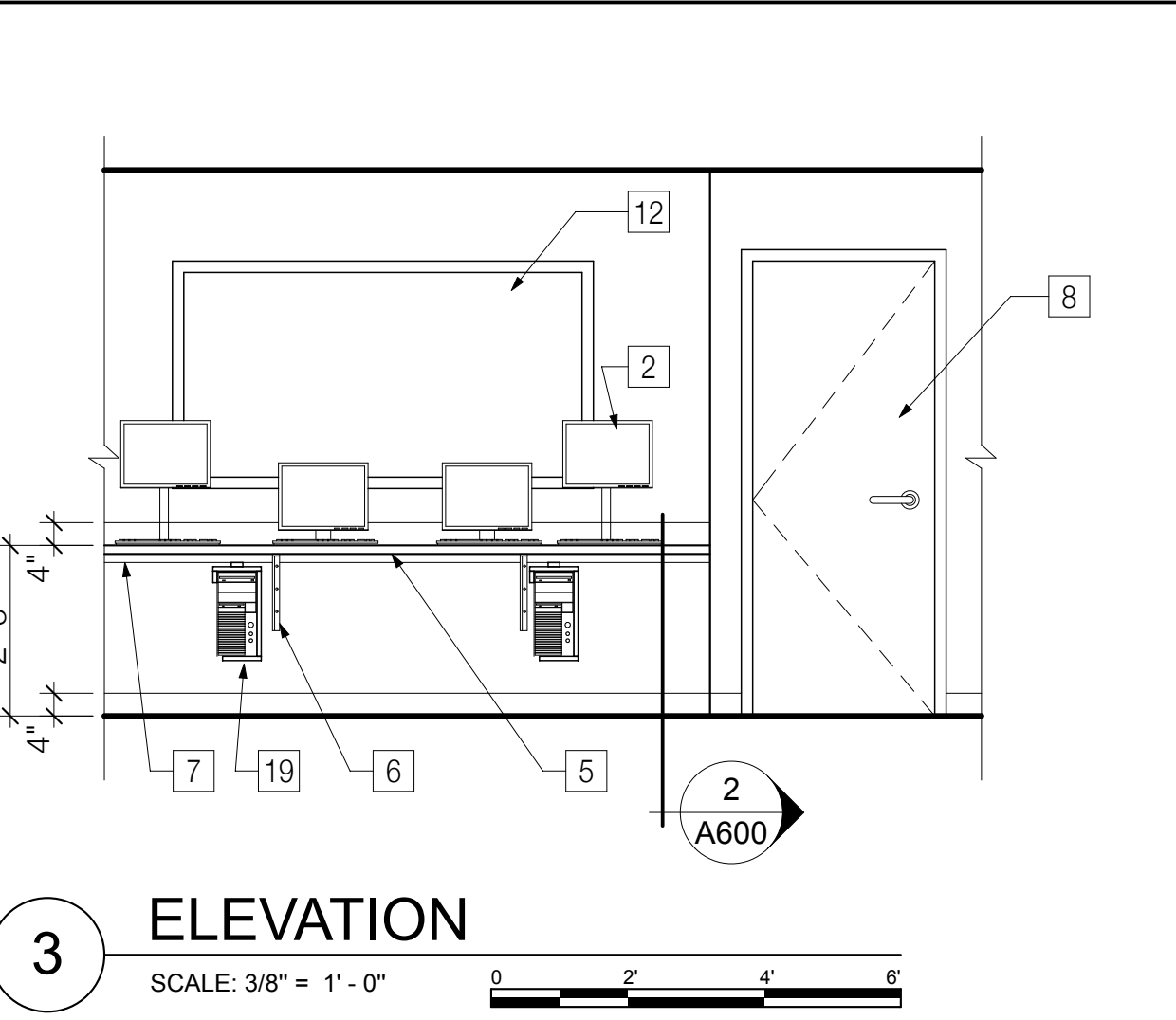
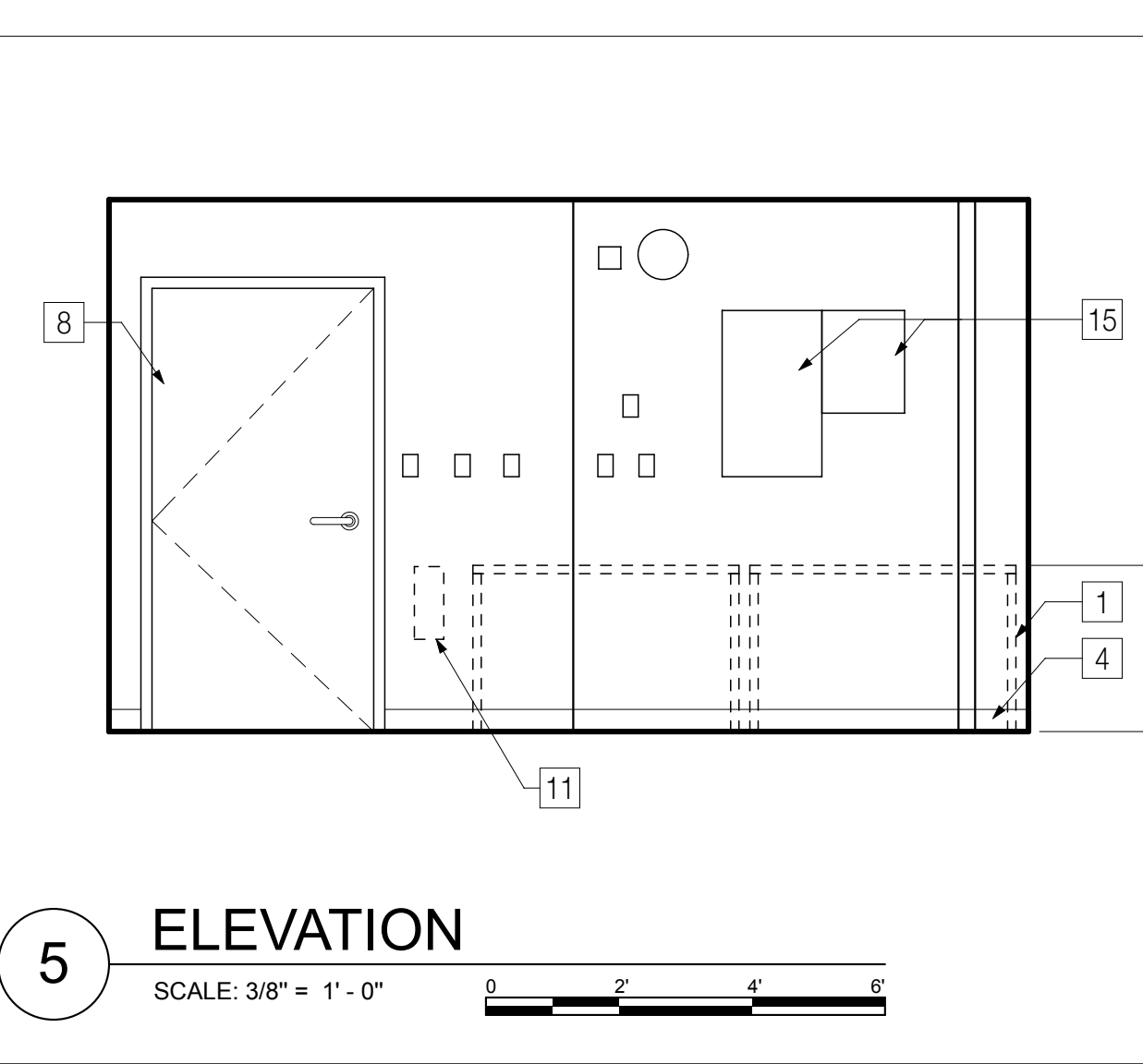
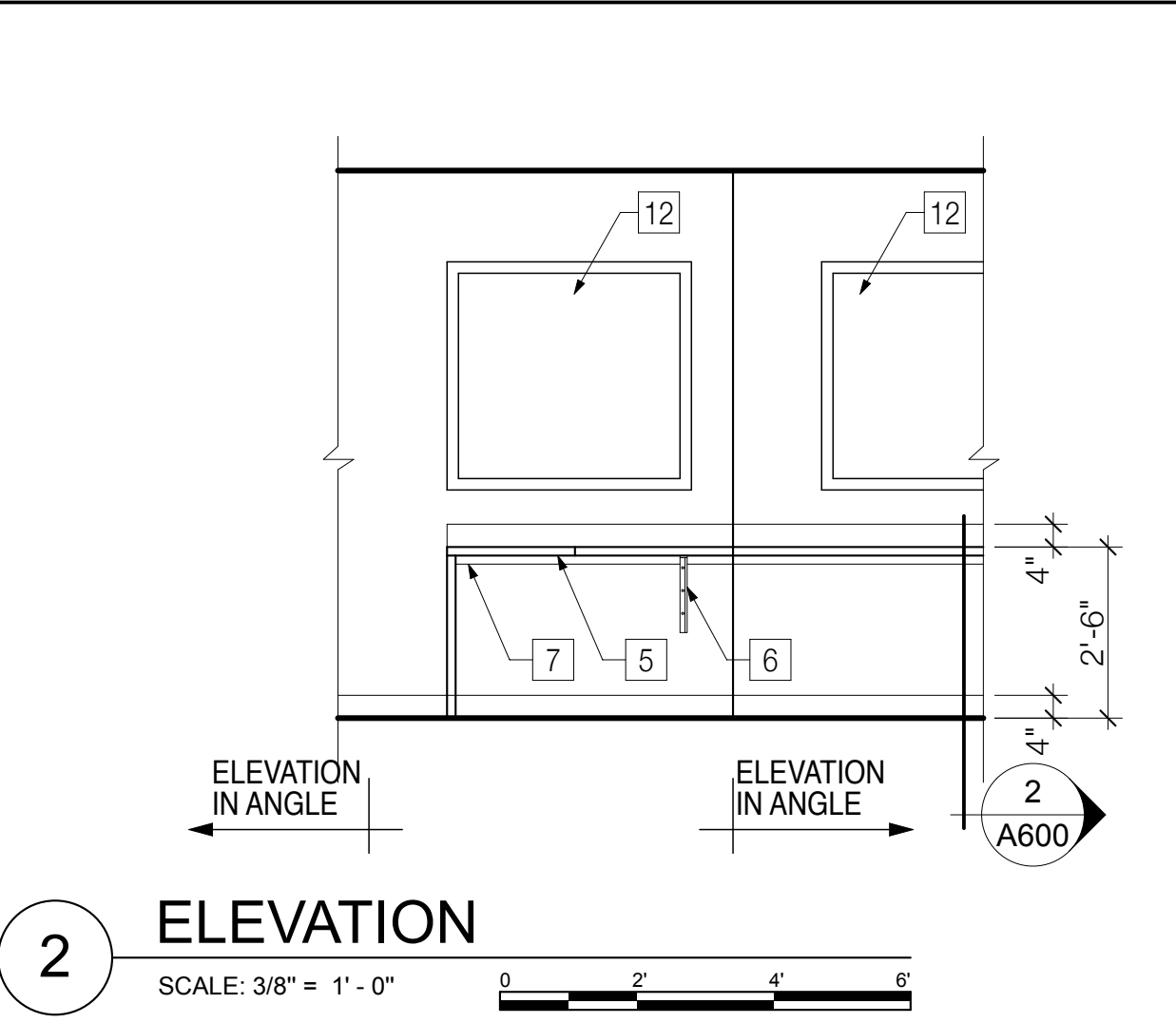
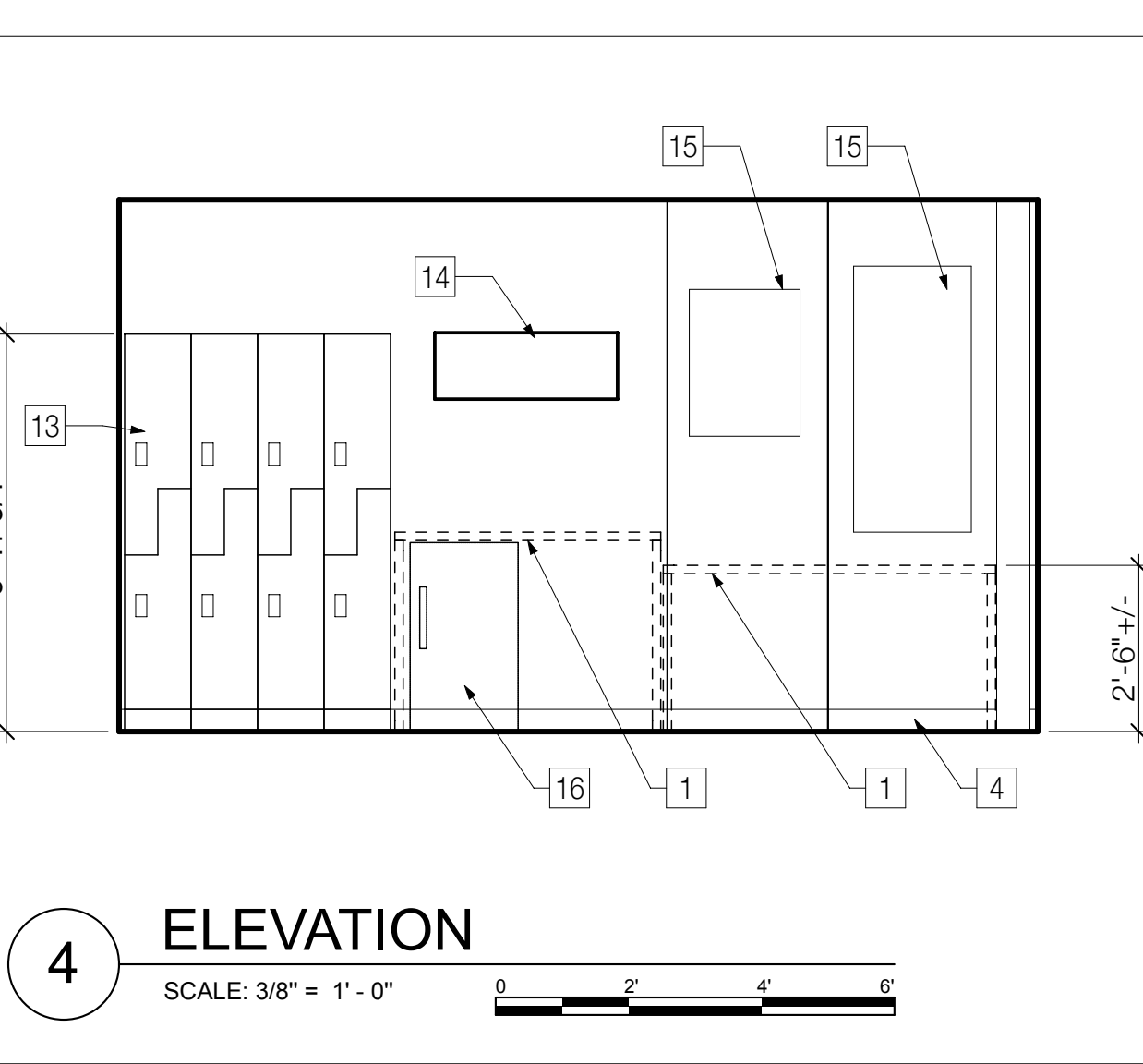
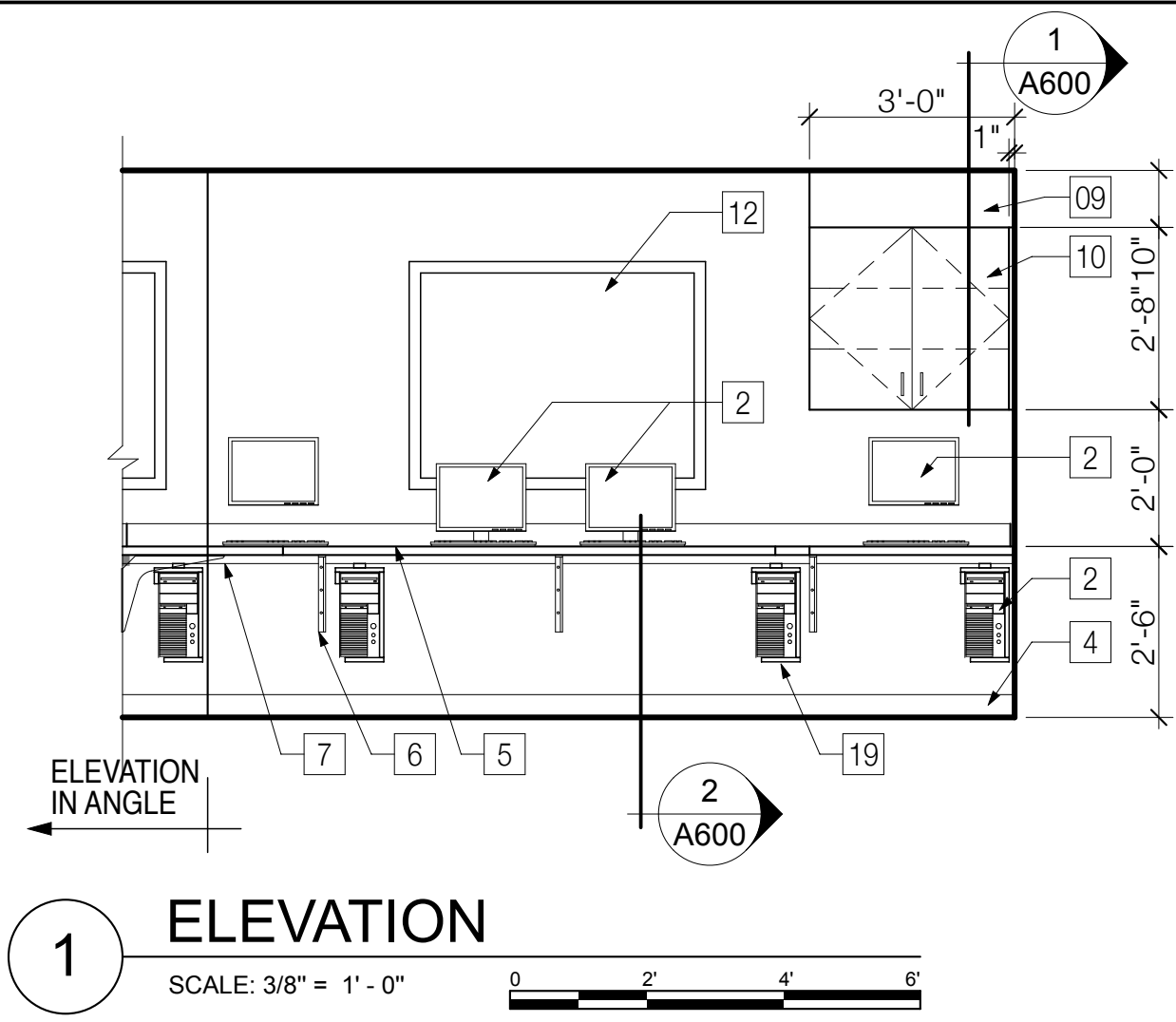
**FIRST FLOOR
EQUIPMENT /
FURNITURE PLAN**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010
JBA PROJECT NO. 1367
DRAWN: MD
SCALE: AS NOTED
DRAWING NO.
A-400.00
CAD FILE NO.

PROGRESS SET:
12/10/12



GENERAL ELEVATION NOTE:

A - PROVIDE 2 1/2" d. GROMMET (BLACK) ON SURFACE MILLWORK STATIONS AS REQUIRED.

B - ALL WOOD BLOCKING SHALL BE "PRESSURE TREATED FIRE RETARDANT" (P.T.F.R.).

C - ALL PREFABRICATED FURNITURE (SHOWN DASHED LINE) ARE NOT IN CONTRACT.

D - PROVIDE BLOCKING FOR ALL WALL MOUNTED MILLWORKS, CABINETRY, ACCESSORIES AND ETC.

E - ALL CABINET HINGES TO BE CONCEALED, FREE SWINGING WITH 165 D. OPENING ANGLES.

F - VERIFY ALL DIMENSIONS IN THE FIELD BEFORE FABRICATION.

G - ALL EXPOSED MILLWORK SHALL BE PLASTIC LAMINATED.

H - REFER TO A-400, EQUIPMENT / FURNITURE SCHEDULE FOR THE FOLLOWING CODED SYMBOL:

CODIED INTERIOR ELEVATION NOTES:

1 FURNITURE (N.I.C.)

2 MONITOR (EXISTING) AND ARM (NEW)
ARM: REFER TO A-400

3 INTEGRATED 6" BASE

4 NEW 4" BASE - REFER TO FINISH SCHEDULE

5 SOLID SURFACE COUNTERTOP W/ 4" H. SOLID SURFACE BACKSPLASH

6 PAINTED STEEL COUNTERTOP SUPPORT

7 CLEAT BLOCKING (2X4) OR PAINTED STEEL ANGLE 2X2.

8 EXISTING DOOR

9 PAINTED GYPSUM BOARD SOFFIT

10 PLASTIC LAMINATE WALL CABINET WITH ADJUSTABLE SHELVES

11 EXISTING RELOCATED FIRE EXTINGUISHER. (N.I.C.)

12 EXISTING WINDOW TO REMAIN

13 NEW LOCKERS - SOLID PHENOLIC

14 NEW WALL MOUNTED SPLIT AC UNIT

15 EXISTING WALL MOUNTED ELECTRICAL PANEL TO REMAIN

16 UNDER COUNTER REFRIGERATOR (N.I.C.).

17 CRASH RAIL

18 BUMPER RAIL

19 COMPUTER (EXISTING) AND CPU HOLDER (NEW).
CPU HOLDER: REFER TO A-400.

20 NEW BACKLID / ILLUMINATED PANEL (WINDOW) WHERE CALLED. REFER TO A-400.00.

1

TYPICAL MOUNTING HEIGHT

NOTES:

LIGHT SWITCHES, ELECTRICAL, TELEPHONE, SIGNAL OUTLETS AND DIMMERS ALL TO BE MOUNTED VERTICALLY AT HEIGHTS INDICATED (REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION).

ALL DIMENSIONS ARE TO CENTER LINE OF PLATES.

ALL SWITCHES, DIMMERS, HARDWARE & TRIM TO BE UNIFORM IN COLOR.

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SITE PLAN

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review - 100% CD	03.01.2010
Issued for Review - 100% CD	12.17.2012

PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ELEVATIONS &
NOTES**

SEAL & SIGNATURE:

DATE:

MARCH 01, 2010

JBA PROJECT NO.

1367

DRAWN:

MD

SCALE:

AS NOTED

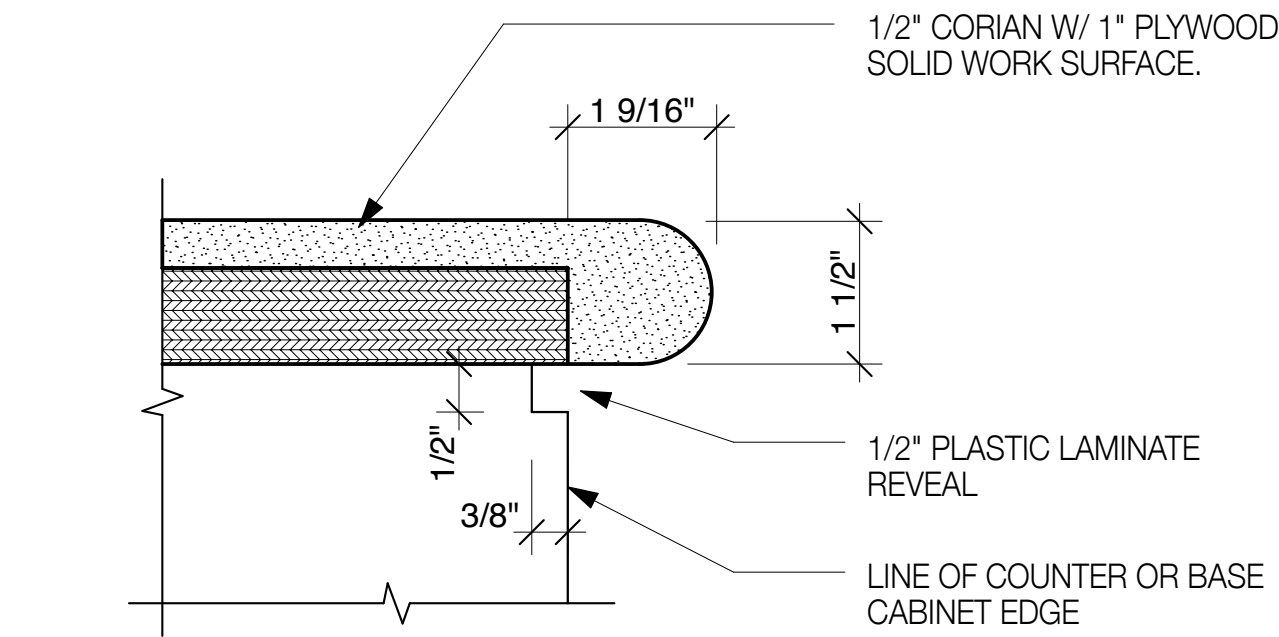
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A-500.00

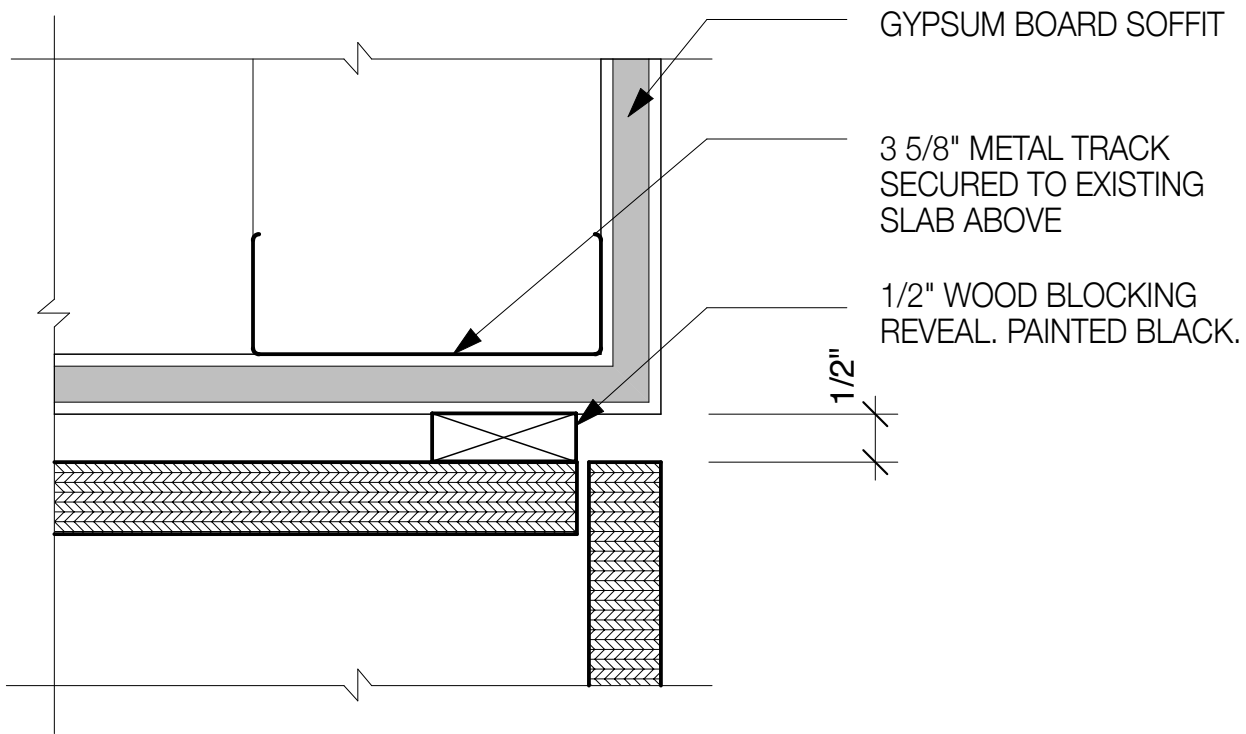
CAD FILE NO.

PROGRESS SET:

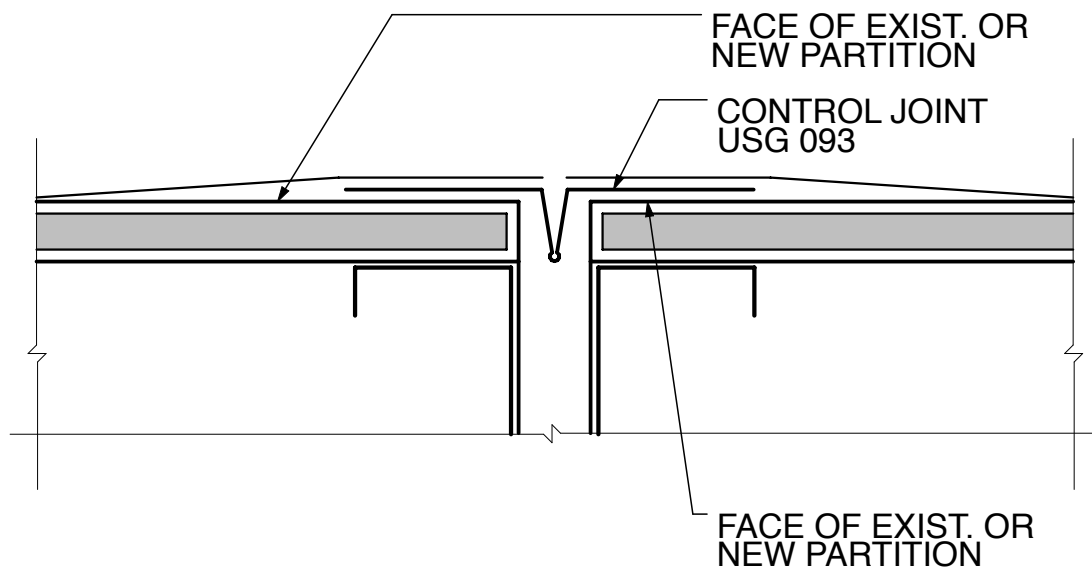
12/10/12



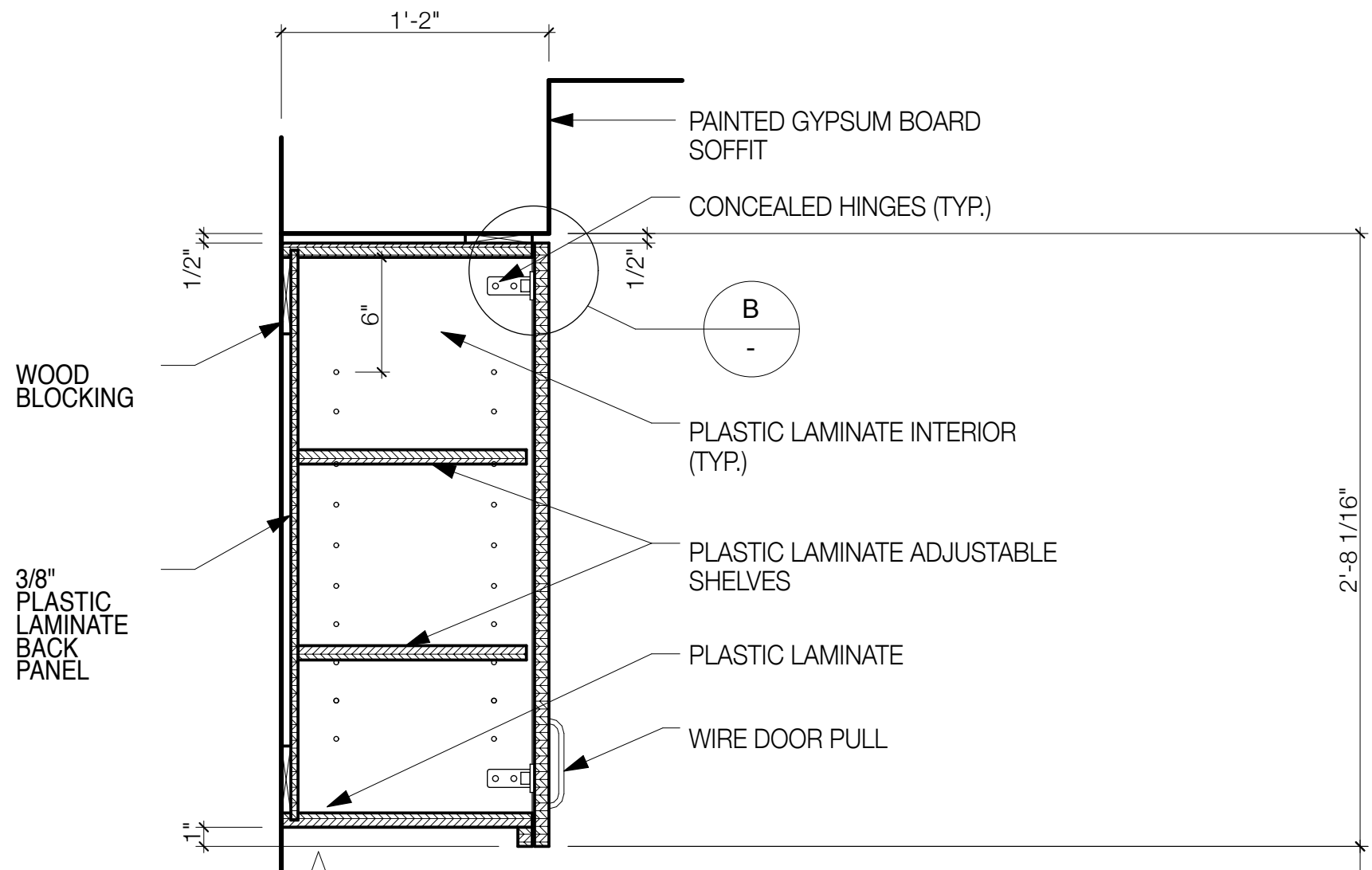
A TYPICAL COUNTER EDGE DETAIL
SCALE: 1 : 2 (Half Full Size)



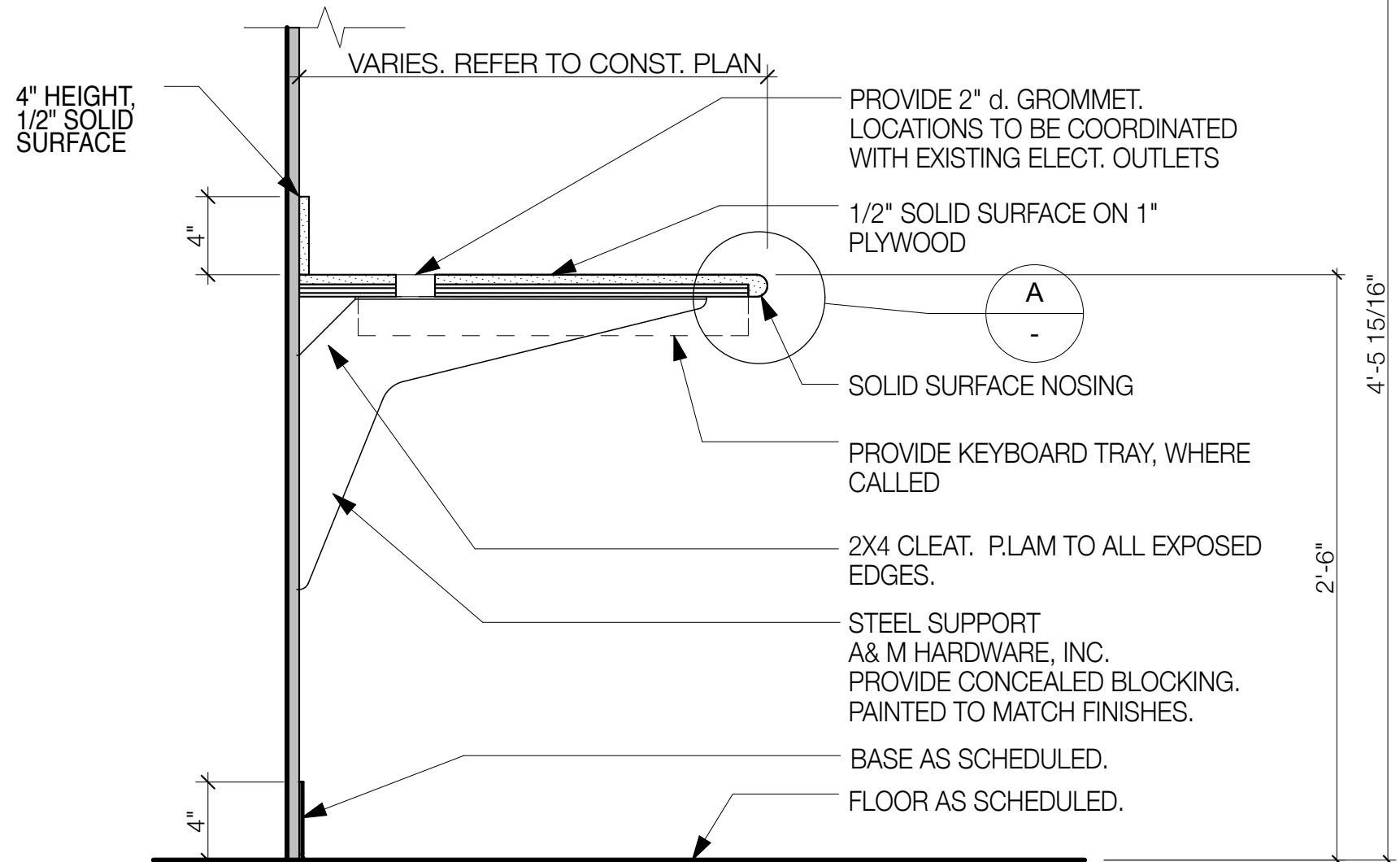
B TYPICAL SOFFIT DETAIL
SCALE: 1 : 2 (Half Full Size)



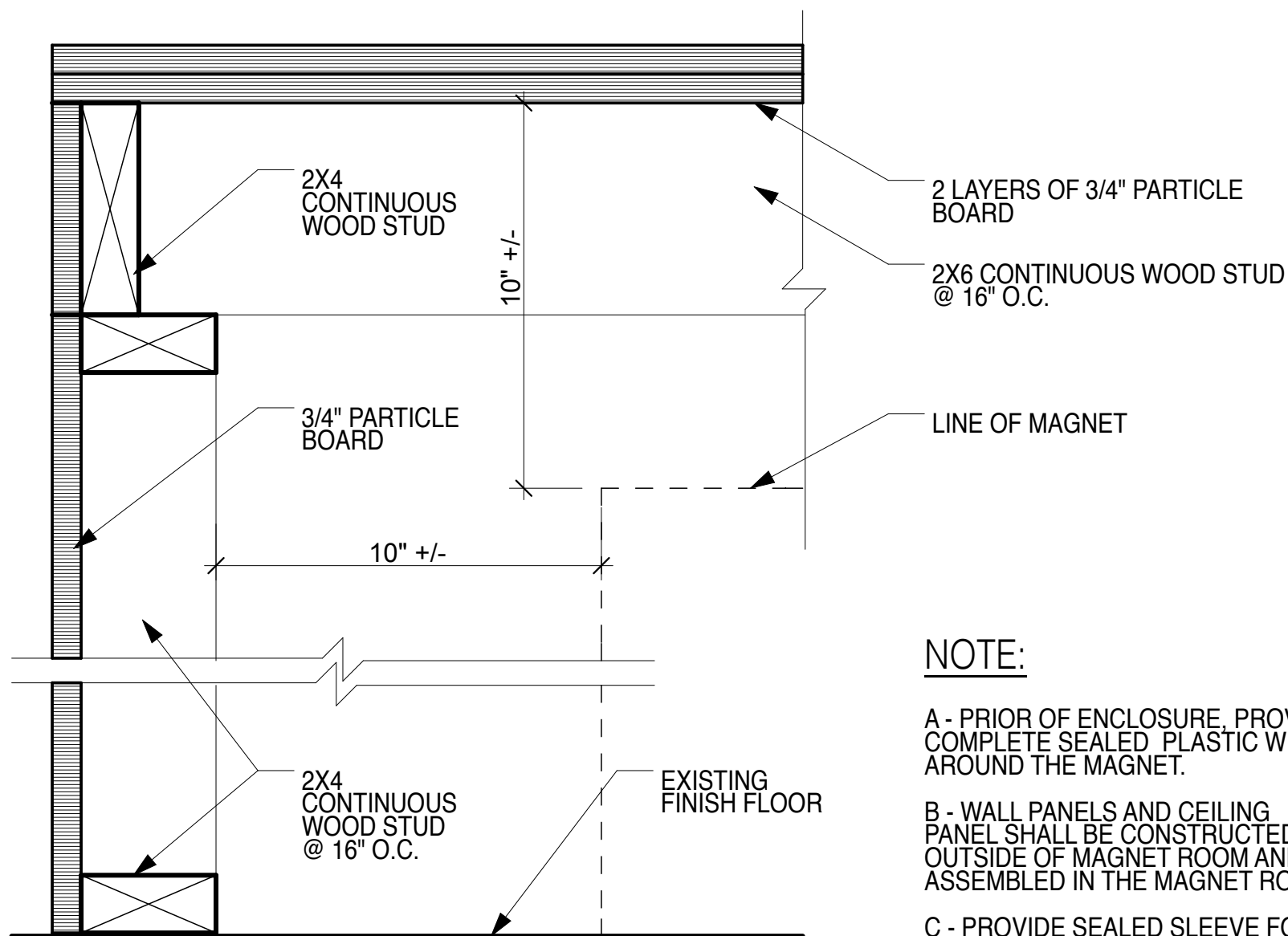
- TYPICAL CONTROL JOINT
@ PARTITIONS JUNCTURE
SCALE: 1 : 2 (Half Full Size)



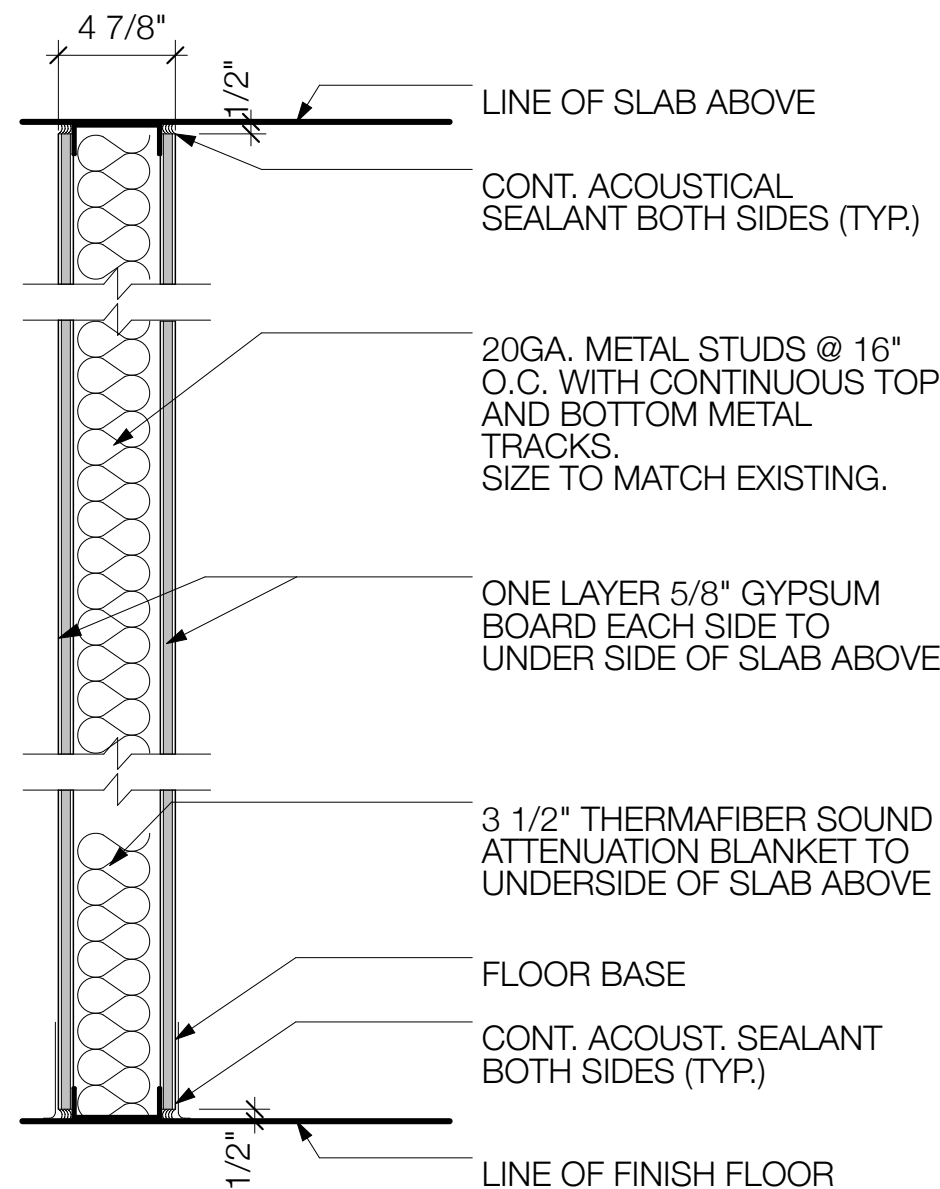
1 MILLWORK SECTION
SCALE: 1 1/2" = 1' - 0"



2 MILLWORK SECTION
SCALE: 1 1/2" = 1' - 0"



3 TEMPORARY WOODEN ENCLOSURE BOX
SCALE: 3" = 1' - 0"



1 NON RATED PARTITION
SCALE: 1 1/2" = 1'-0"

OWNER:



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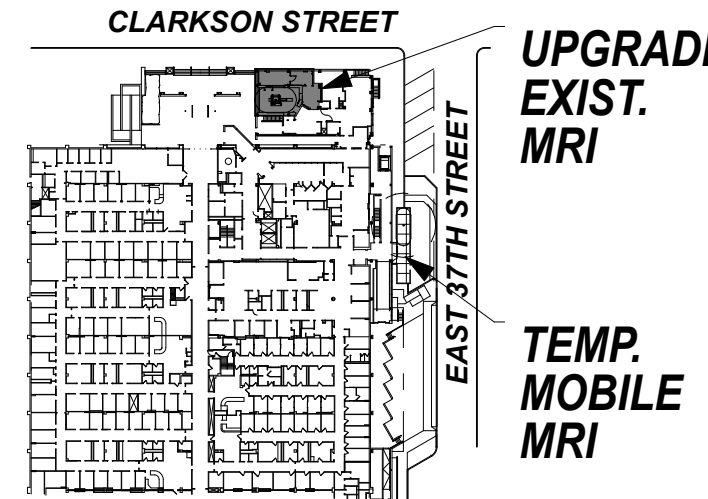
Two Pennsylvania Plaza, Third Floor
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SITE PLAN



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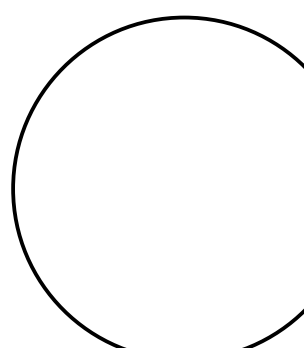
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**MILLWORK DETAILS
& PARTITION TYPES**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

SCALE: AS NOTED

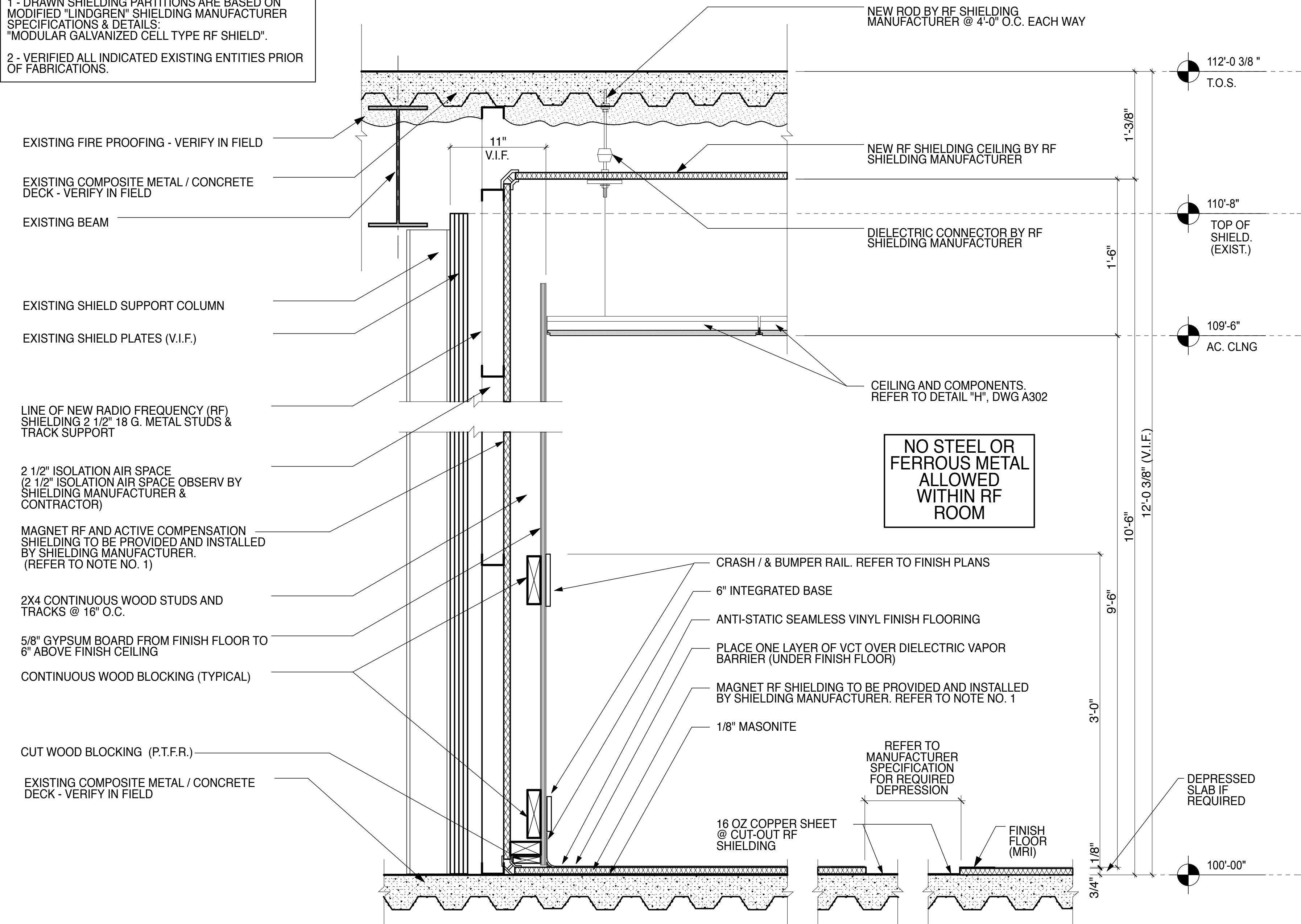
DRAWING NO.

A-600.00

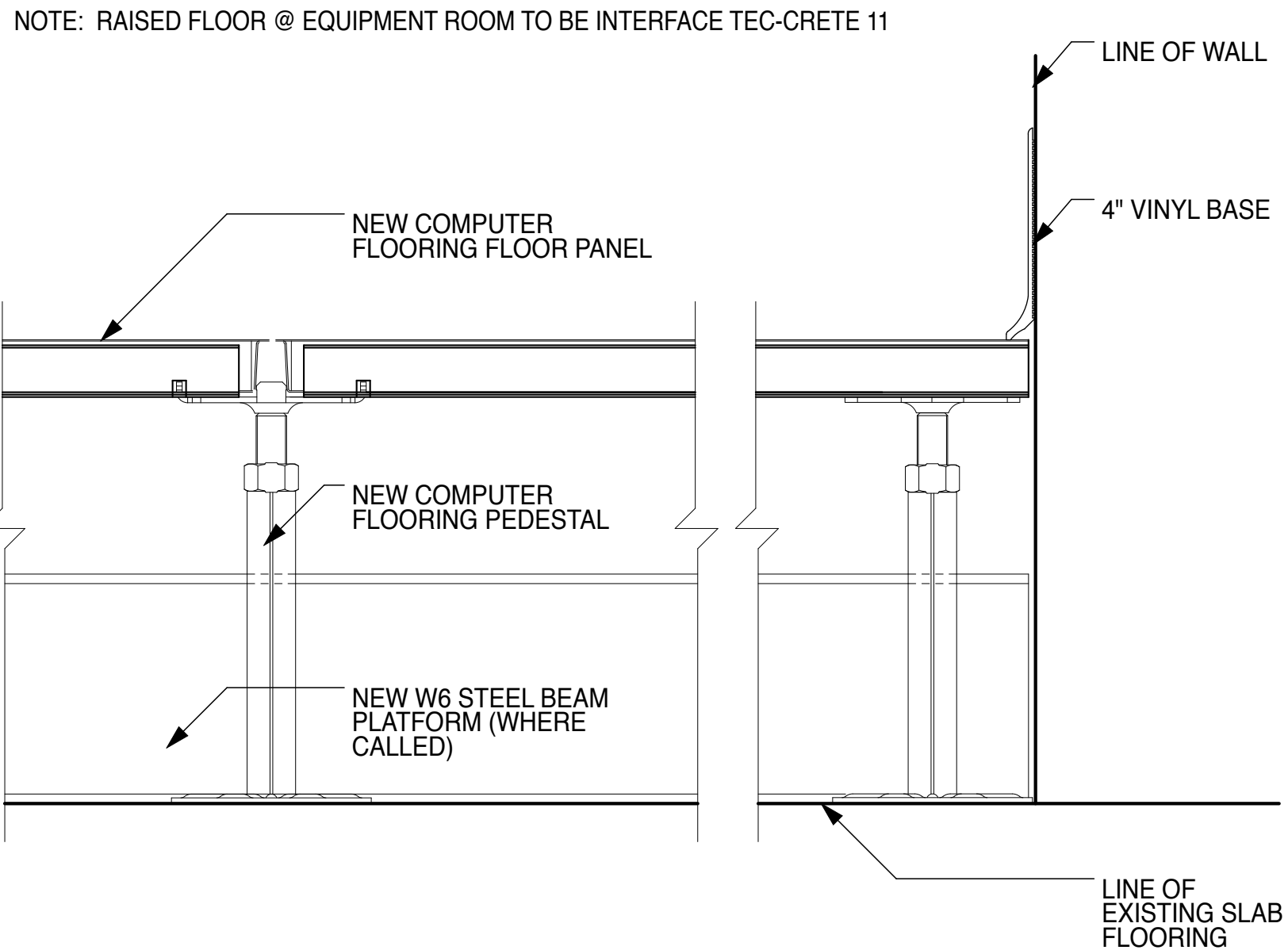
CAD FILE NO.

**PROGRESS SET:
12/10/12**

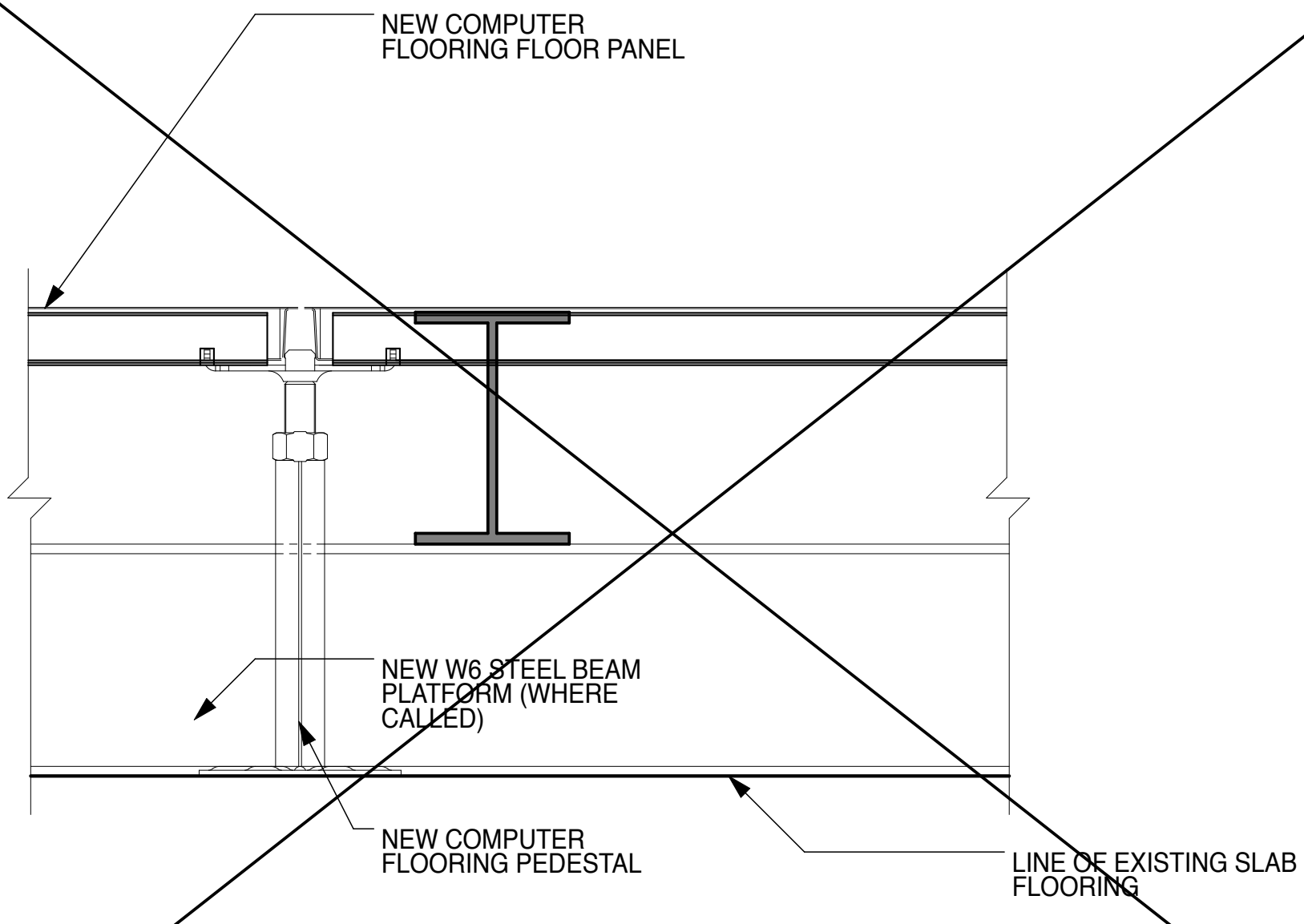
NOTES:
1 - DRAWN SHIELDING PARTITIONS ARE BASED ON MODIFIED "LINDGREN" SHIELDING MANUFACTURER SPECIFICATIONS & DETAILS: "MODULAR GALVANIZED CELL TYPE RF SHIELD".
2 - VERIFIED ALL INDICATED EXISTING ENTITIES PRIOR OF FABRICATIONS.



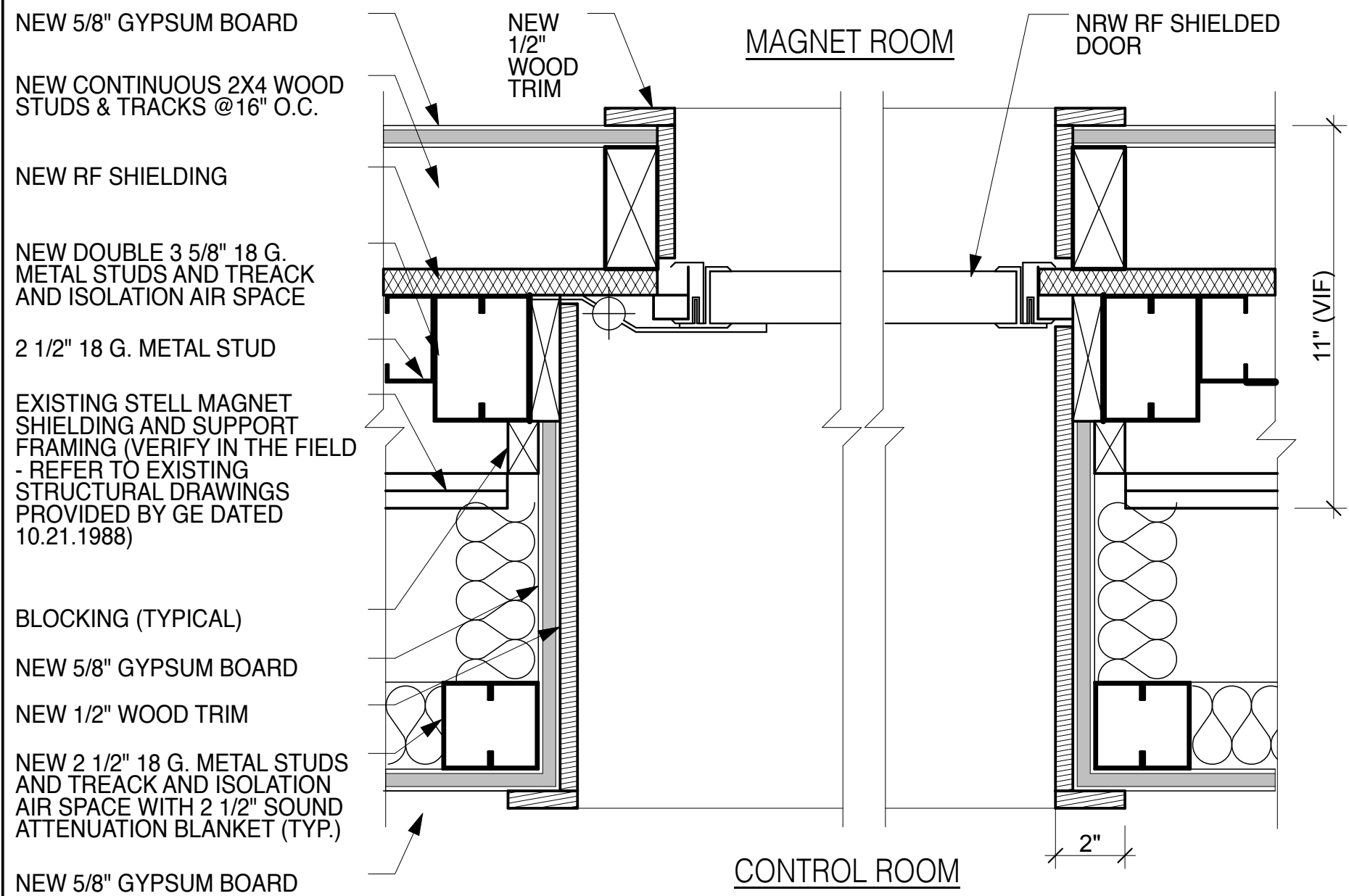
1 TYPICAL MRI PARENT RF SHIELDING SECTION / DETAIL
SCALE: 1 1/2" = 1' - 0"



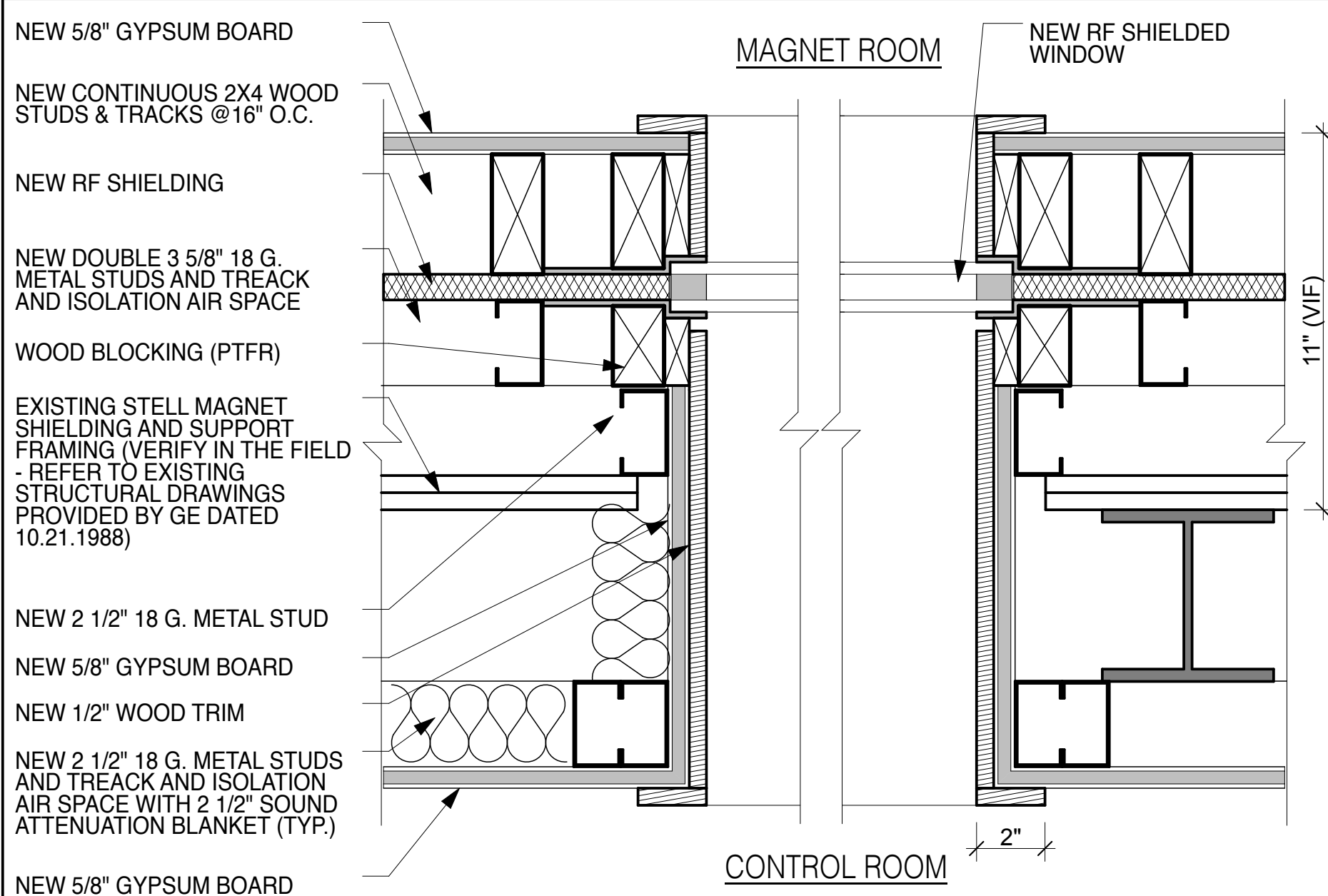
2 TYPICAL RAISED FLOOR DETAIL
SCALE: 3" = 1' - 0"



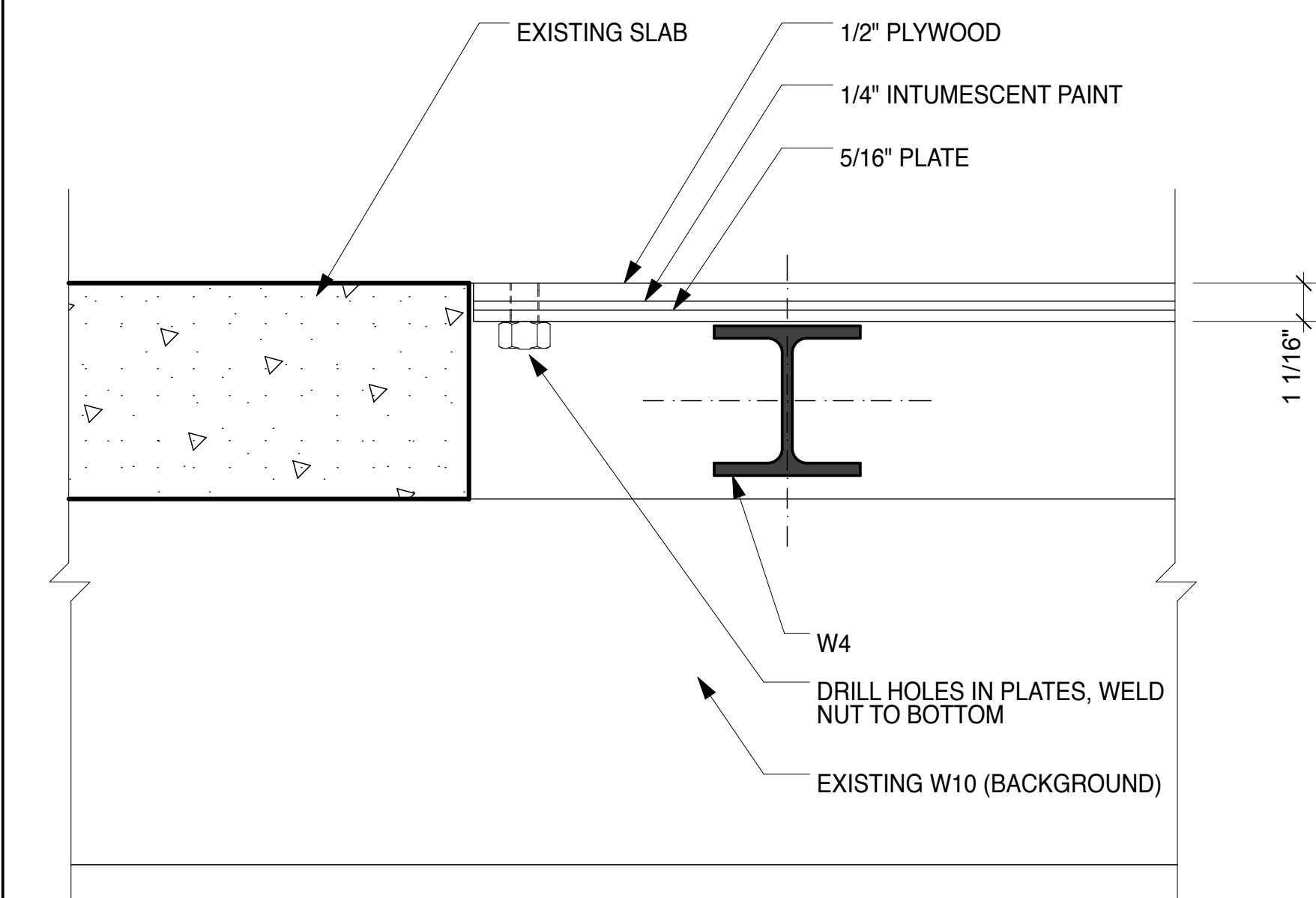
2a TYPICAL RAISED FLOOR DETAIL
SCALE: 3" = 1' - 0"



3 DOOR FRAME DETAIL @ MRI ROOM
SCALE: 3" = 1' - 0"



4 WINDOW FRAME DETAIL @ MRI ROOM
SCALE: 3" = 1' - 0"



5 SHIELDING AT 2ND FLOOR SLAB
SCALE: 3" = 1' - 0"

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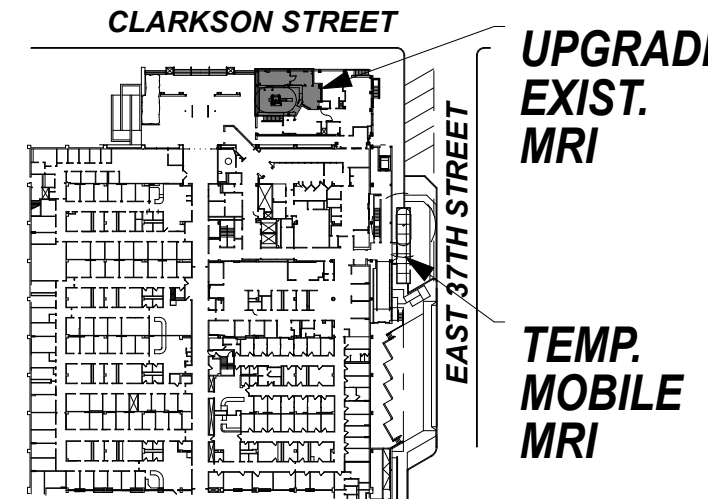
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SITE PLAN



ISSUES:

MARKS:	DATE:
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PROJECT TITLE

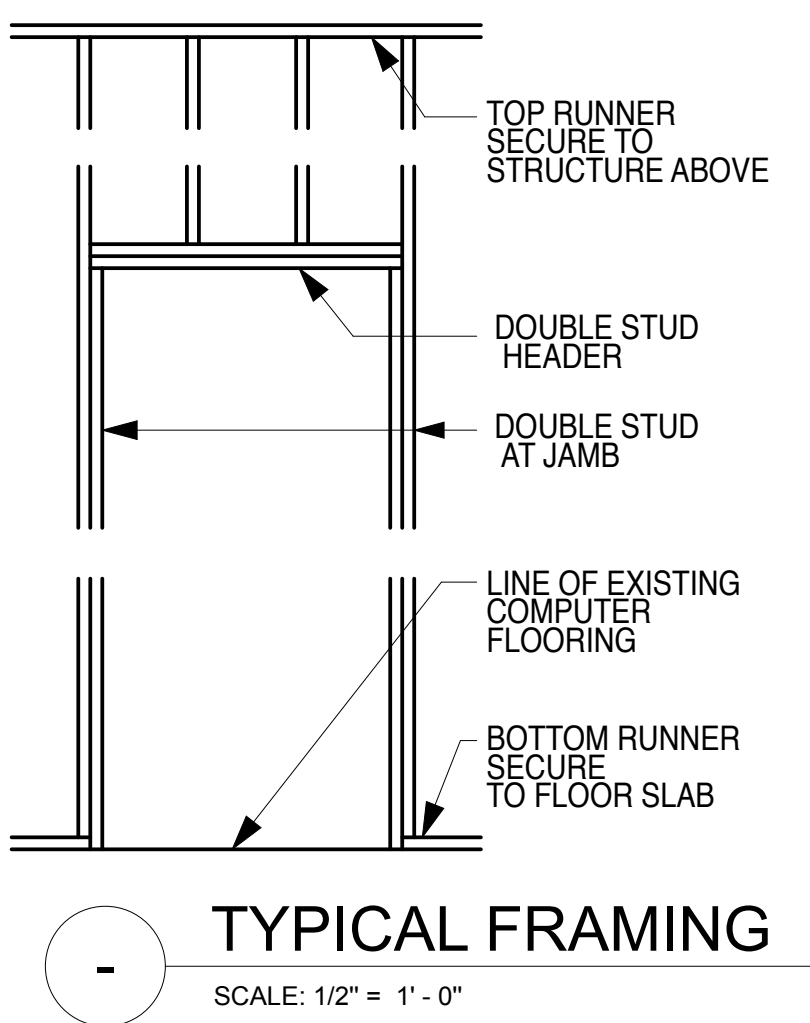
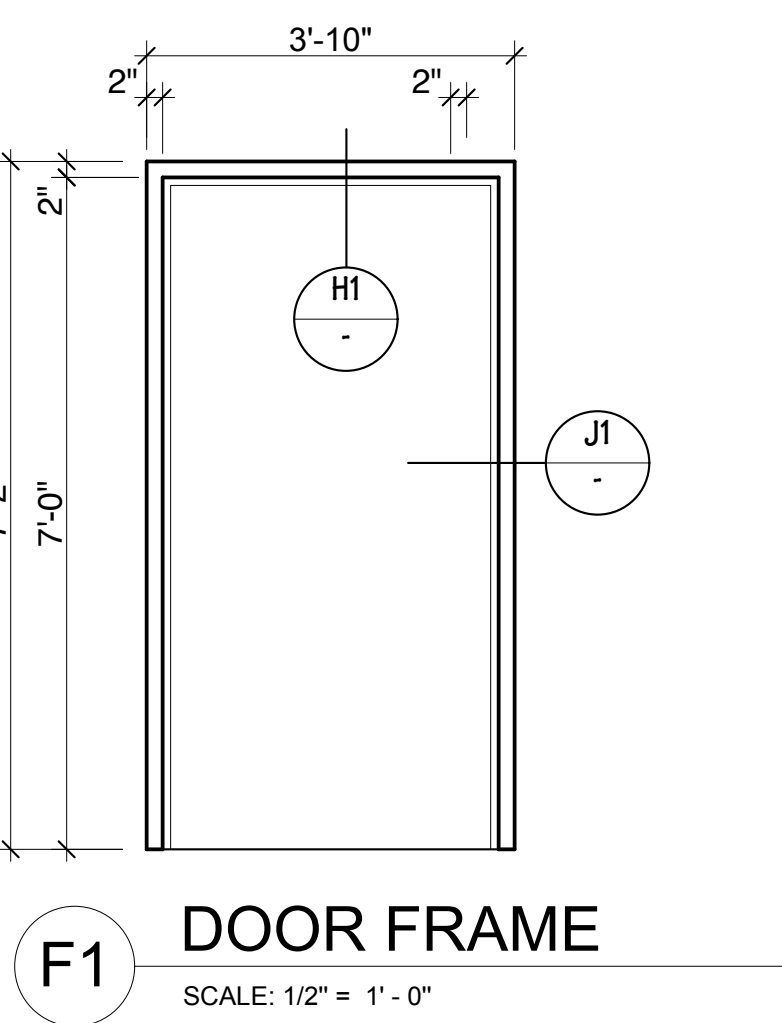
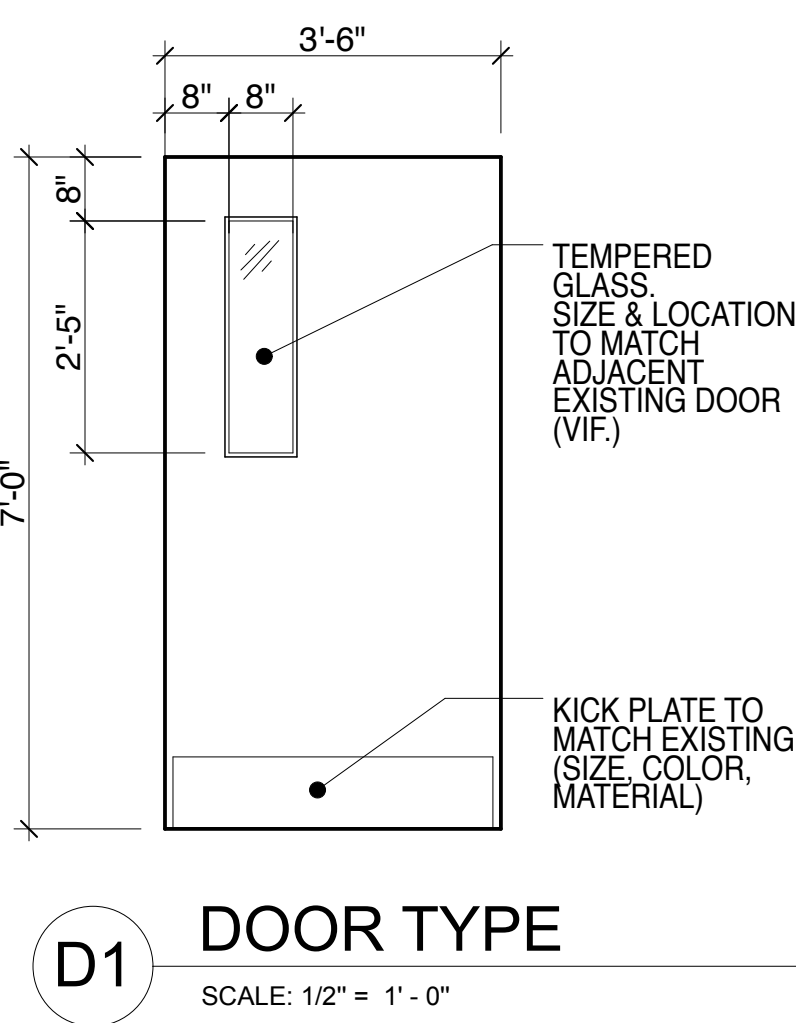
**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**GENERAL MRI
SHIELDING AND RF
ROOM DETAILS**

SEAL & SIGNATURE:

DATE:	MARCH 01, 2010
JBA PROJECT NO.	1367
DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	A-601.00
CAD FILE NO.	



GENERAL NOTES:

1. VERIFY EXISTING DIMENSIONS PRIOR OF FABRICATIONS.
2. KEYING SHALL BE COORDINATED BY SUNY DOWNSTATE LOCKSMITH.
3. SET DOOR 4" MIN. OFF OF WALL.
4. WOOD DOOR TO BE SOLID CORE.
5. SEPARATE / DIFFERENT MASTER KEYS TO BE PROVIDED.
6. DOOR NUMBER 110, 108 & 109a ARE EXISTING TO REMAIN.

DOOR SCHEDULE

NO.	ROOM NAME	DOOR				FRAME			LABLE	HW	NOTES
		SIZE	TYPE	MTRL.	FINISH	TYPE	MTRL.	FINISH			
109	EQUIPMENT ROOM	3'-6" X 7'-0"	D1	WOOD	PAINT	F1	HM	PAINT	-	1	A

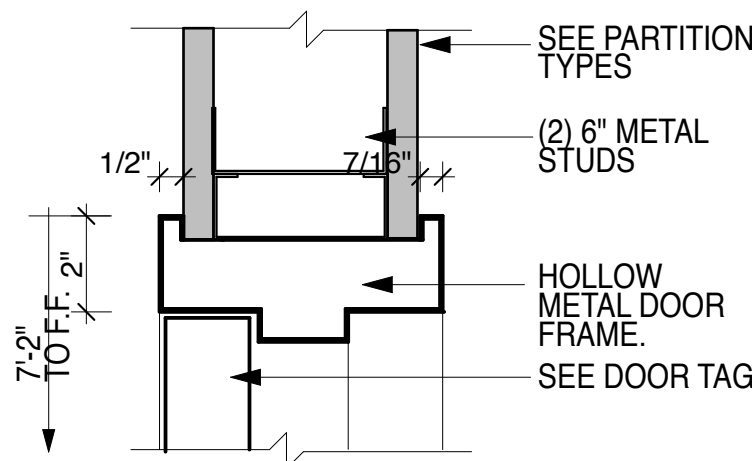
NOTES:

A - DOOR MATERIAL & COLOR TO MATCH EXISTING

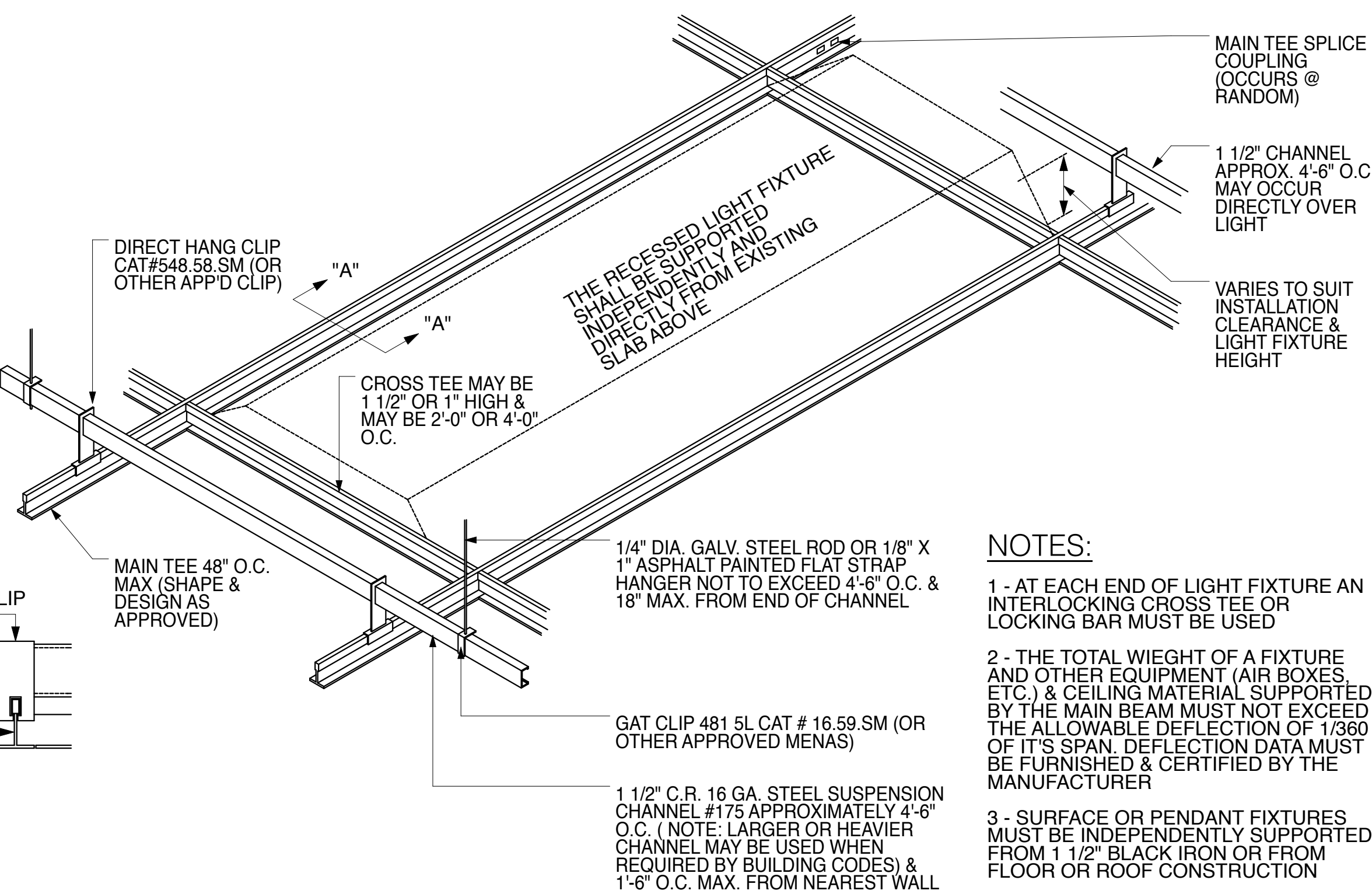
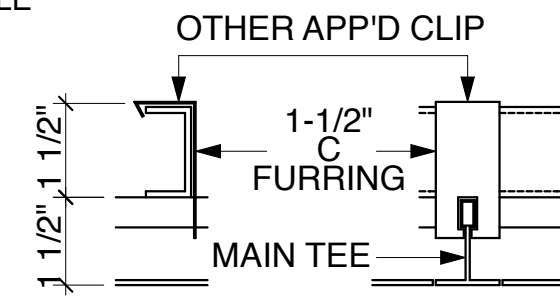
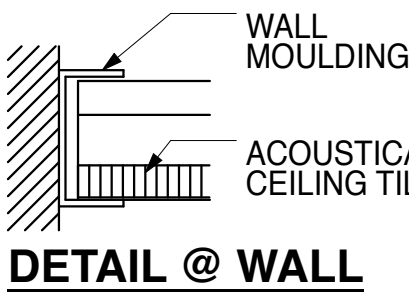
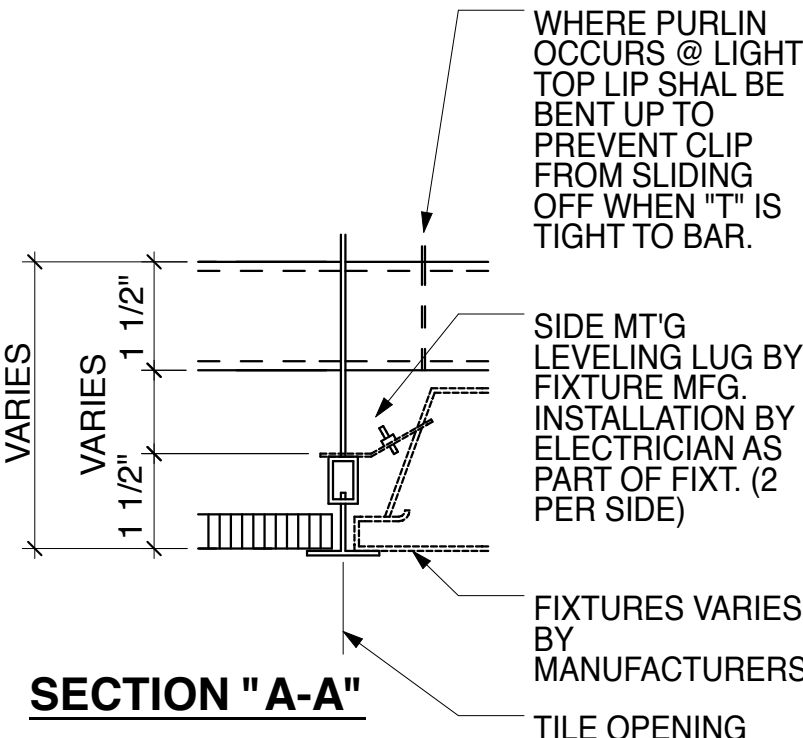
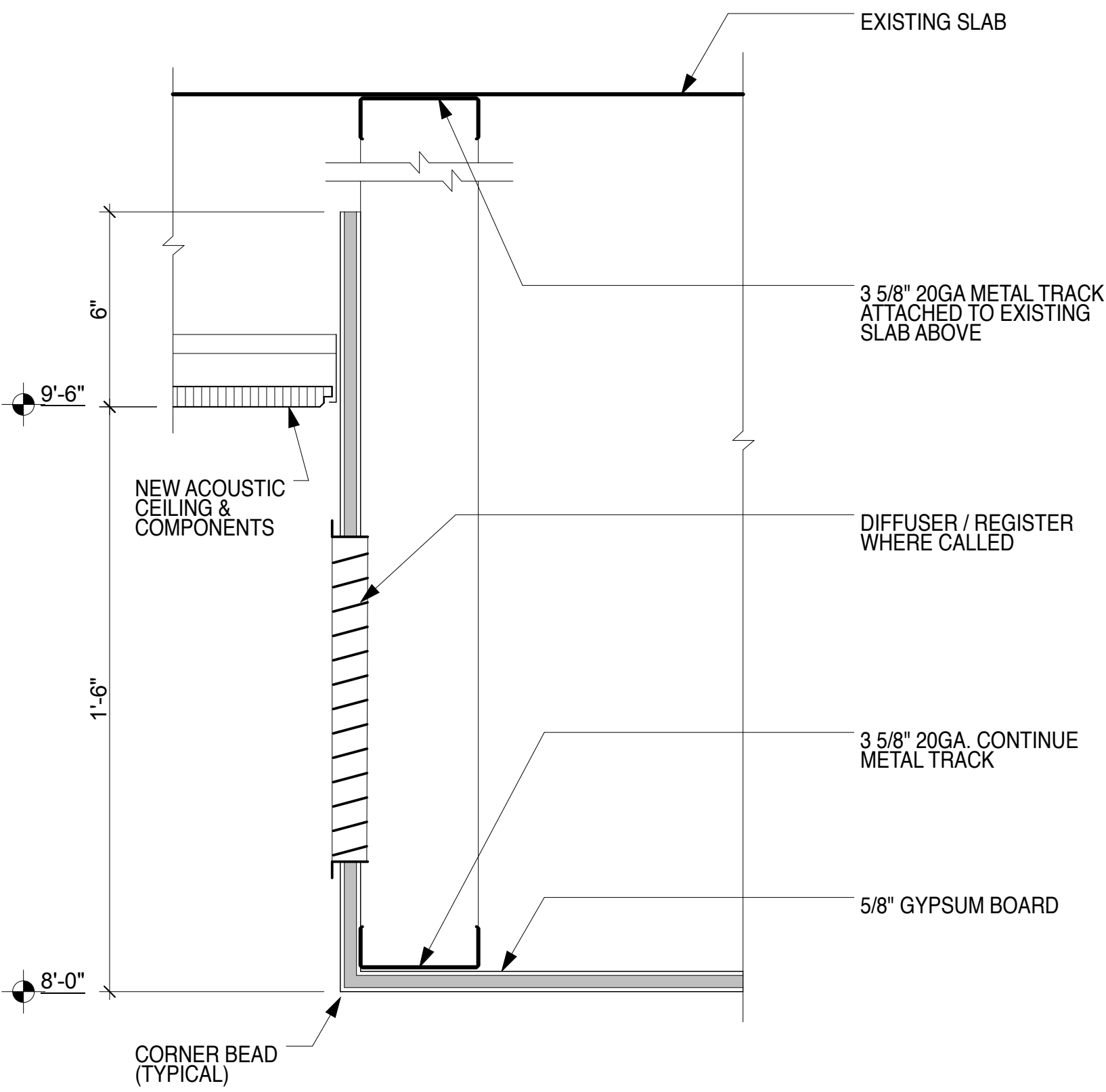
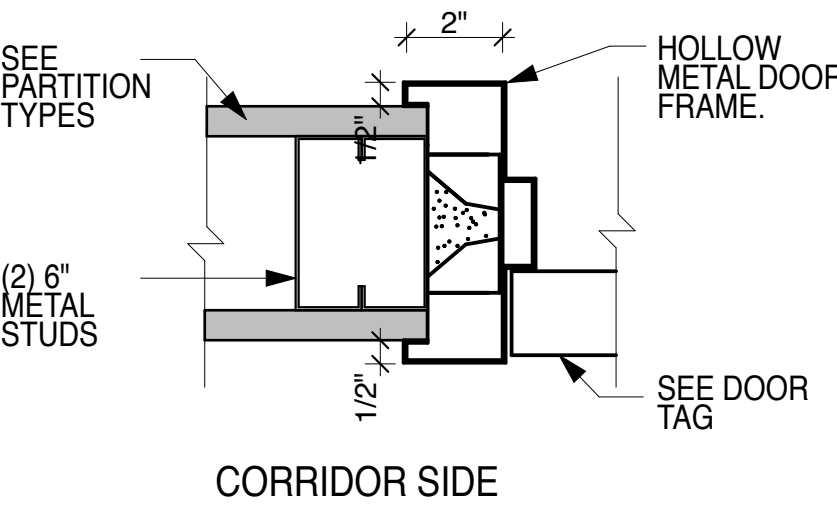
DOOR HARDWARE SET

NO.	ITEM	DESCRIPTION	QUANTITY
1	LOCKSET	STORE ROOM LOCK - SARGENT 10G04	1
	HINGES	HAGER - BALL BEARING - BB1279	3
	DOOR CLOSER	LCN 4040 - PULL SIDE MOUNTING	1
	SILENCERS	GLYNN - JOHNSON GJ64	3
	MOP PLATE	IVES 8400 SERIES- 8" HEIGHT BOTH SIDES. MATERIAL &COLOR TO MATCH EXISTING	2
	WALL / DOOR STOP	IVES - MODEL: FS17 - US26D	1

GENERAL NOTES:
FOR PARTITION'S THROUGHOUT DIMENSIONS
REFER TO PARTITION TYPES.



GENERAL NOTES:
FOR PARTITION'S THROUGHOUT DIMENSIONS
REFER TO PARTITION TYPES.



OWNER:



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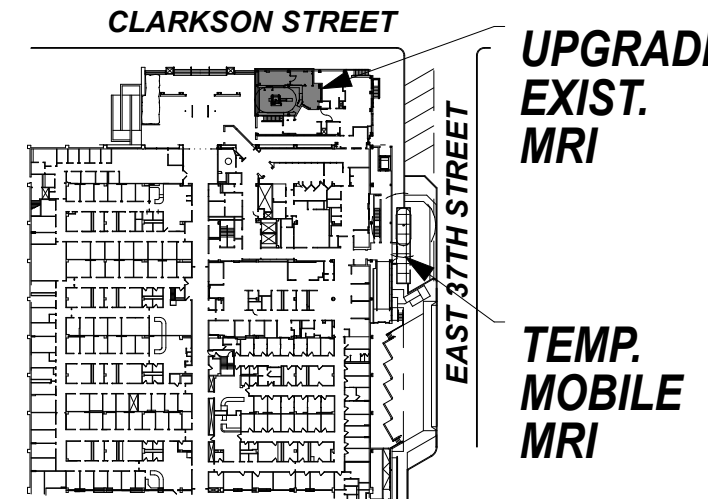
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SITE PLAN



ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review - 100% CD	03.01.2010
Issued for Review - 100% CD	12.17.2012

WARNING:
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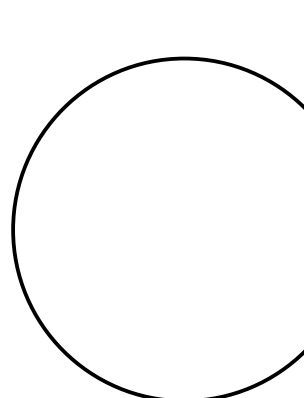
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**DOOR, SCHEDULE,
HARDWARE &
CEILING DETAILS**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

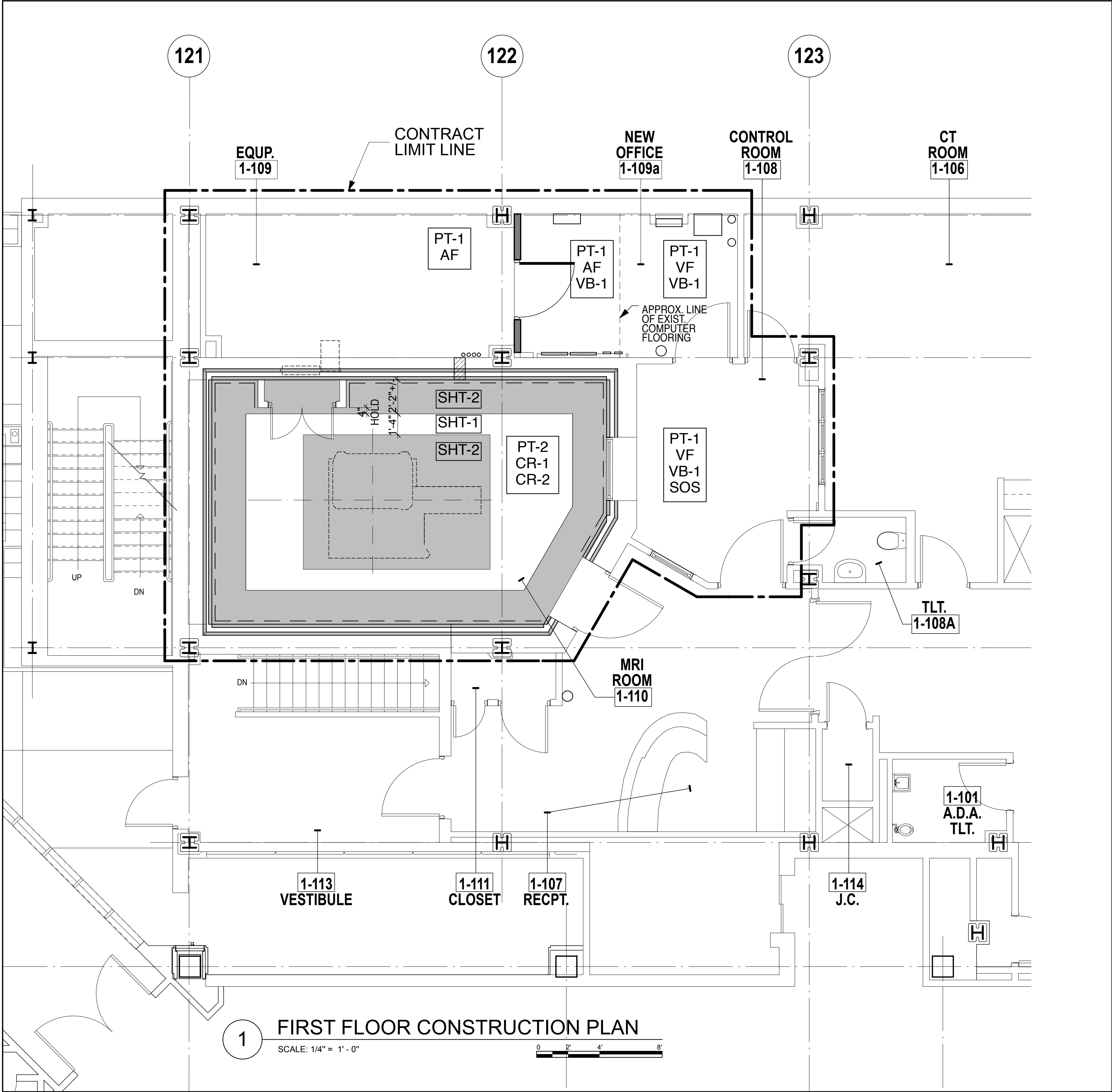
SCALE: AS NOTED

DRAWING NO.

A-700.00

CAD FILE NO.

**PROGRESS SET:
12/10/12**



NOTE:
USE OF METALS OR FERROUS MATERIALS ARE PROHIBITED WITHIN R.F. ROOM.

FINISH SCHEDULE					
	CODE	ITEM / DESCRIPTION	MANUFACTURER	NUMBER / COLOR	NOTES
WALL	PT-1	WALL PAINT EGGSHELL	BENJAMIN MOORE	VANILLA ICE CREAM 2154-70	
	PT-2	WALL PAINT EGGSHELL	BENJAMIN MOORE	WEDDING WEIL 2125-70	
FLOOR	SHT-1	SHEET VINYL	NORA	ENVIRONCARE 2780 PHANTOM MIST	MRI ROOM (ACCENT)
	SHT-2	SHEET VINYL	NORA	ENVIRONCARE 2936 FLAX	MRI ROOM (CENTER & PERIMETER) INTEGRATED BASE
	VF	VINYL FLOORING	AMTICO	MAPLE W684	
BASE	VB-1	VINYL BASE	ALLSTATE	A31	
MILLWORK	PL-1	PLASTIC LAMINATE	NEVAMAR	BLOSSOM CHERRY WC5581N	
	SOS	SOLID SURFACE	CORIAN	CHAMOIS	
MISCELLANEOUS	AF	ACCESS FLOORING PANEL	TOTE	MAPLE W684	1
	CR-1	CRASH RAIL	C/S GROUP	ACROVYN, SCR-48 COLOR: BLUE SILK, 930	ALUMINUM COMPONENT
	CR-2	BUMPER GURARD	C/S GROUP	ACROVYN - ACCENT RIAL, SCR-40 COLOR: BLUE SILK 930	ALUMINUM COMPONENT

NOTE:
1 - CONTRACTOR SHALL DOCUMENT AND VERIFY EXISTING PERFORATED PANELS, PRIOR OF DEMOLITION AND PROVIDE THE NEW PERFORATED PNAELS AT THE SAME LOCATIONS.

GENERAL NOTE:
A - DOOR, AND DOOR FRAME PAINT SHALL BE MATCH TO EXISTING ADJACENT NEWLY FINISH AREA. CONTRACTOR TO VERIFY IN FIELD.
B - REMOVE ALL FINISHES AS SHOWN AND NOTED ON DEMOLITION PLAN, UNLESS OTHERWISE NOTED.
C - FLASH PATCH / SELF LEVELING CEMENTITIOUS UNDERLAYMENT TO LEAVE FLOOR READY TO ACCEPT NEW FINISHES.
D - PATCH AND REPAIR WALLS & FLOORS AT ALL AREAS OF FINISH REMOVAL.
E - SHERE COVE BASED MEET AT A CORNER, USE A PROPER CORNER PIECE OR MITRE THE EDGES. TYPICAL FOR ALL BASE TYPES.
F - NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

OWNER:

**SUNY
Downstate**
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SITE PLAN

CLARKSON STREET
EAST 37TH STREET
UPGRADE EXIST. MRI
TEMP. MOBILE MRI

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review - 100% CD	03.01.2010
Issued for Review - 100% CD	12.17.2012

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**FIRST FLOOR
FINISH PLAN**

SEAL & SIGNATURE:

DATE: MARCH 01, 2010

JBA PROJECT NO. 1367

DRAWN: MD

SCALE: AS NOTED

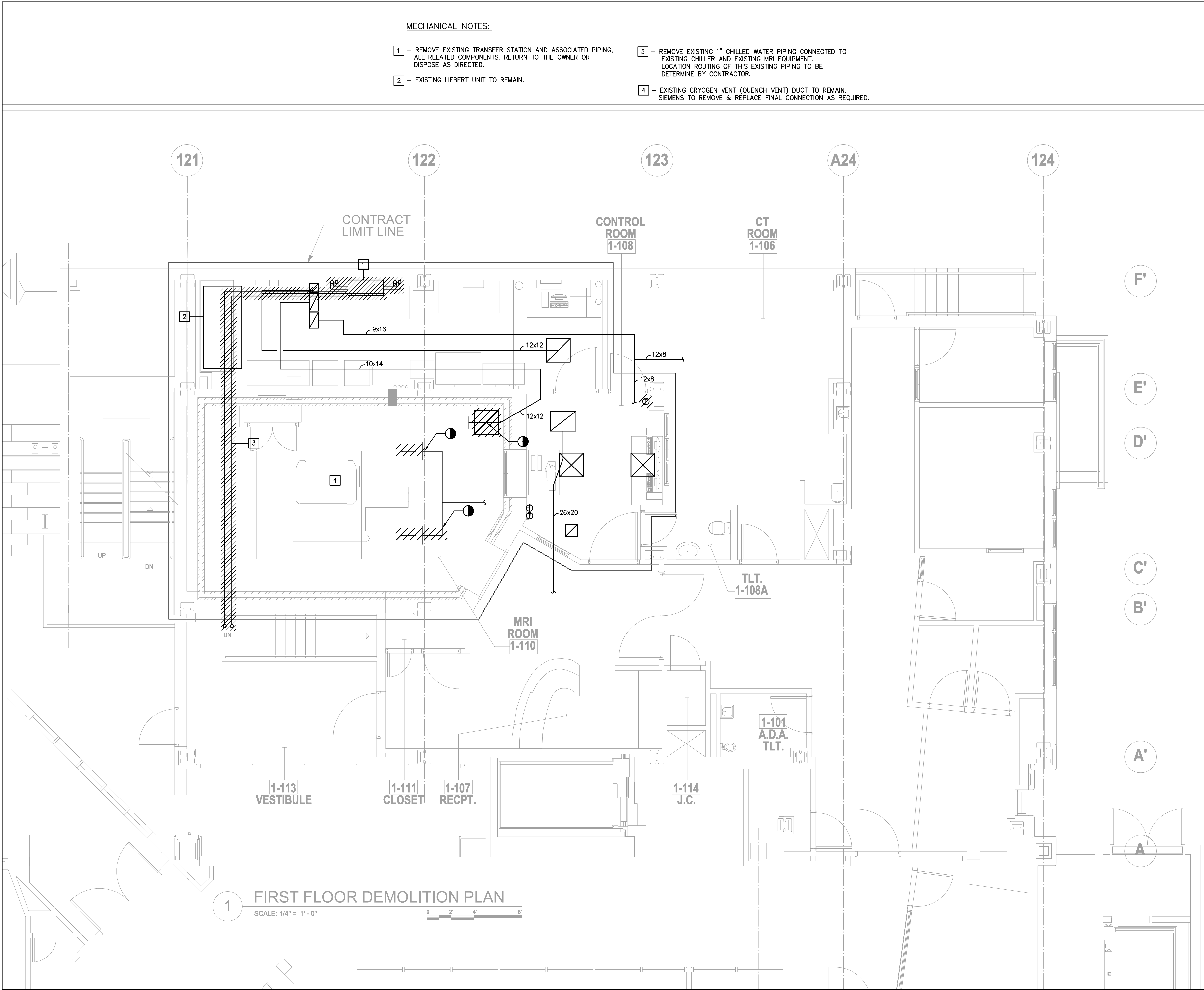
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F-100.00

CAD FILE NO.

**PROGRESS SET:
12/10/12**

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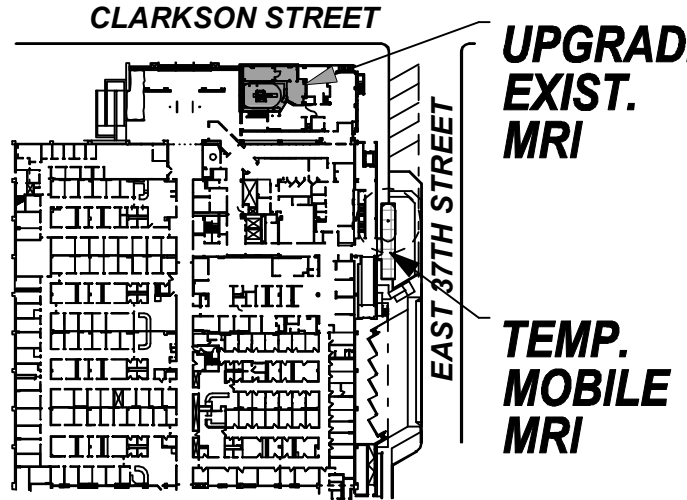
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SITE PLAN



ISSUES:

MARKS:	DATE:

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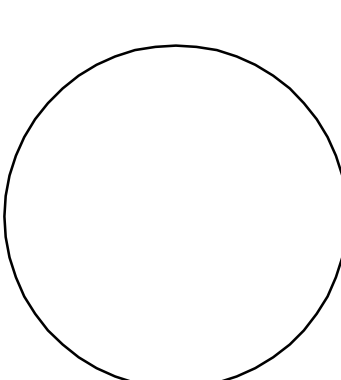
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**MECHANICAL FIRST
FLOOR DEMO PLAN**

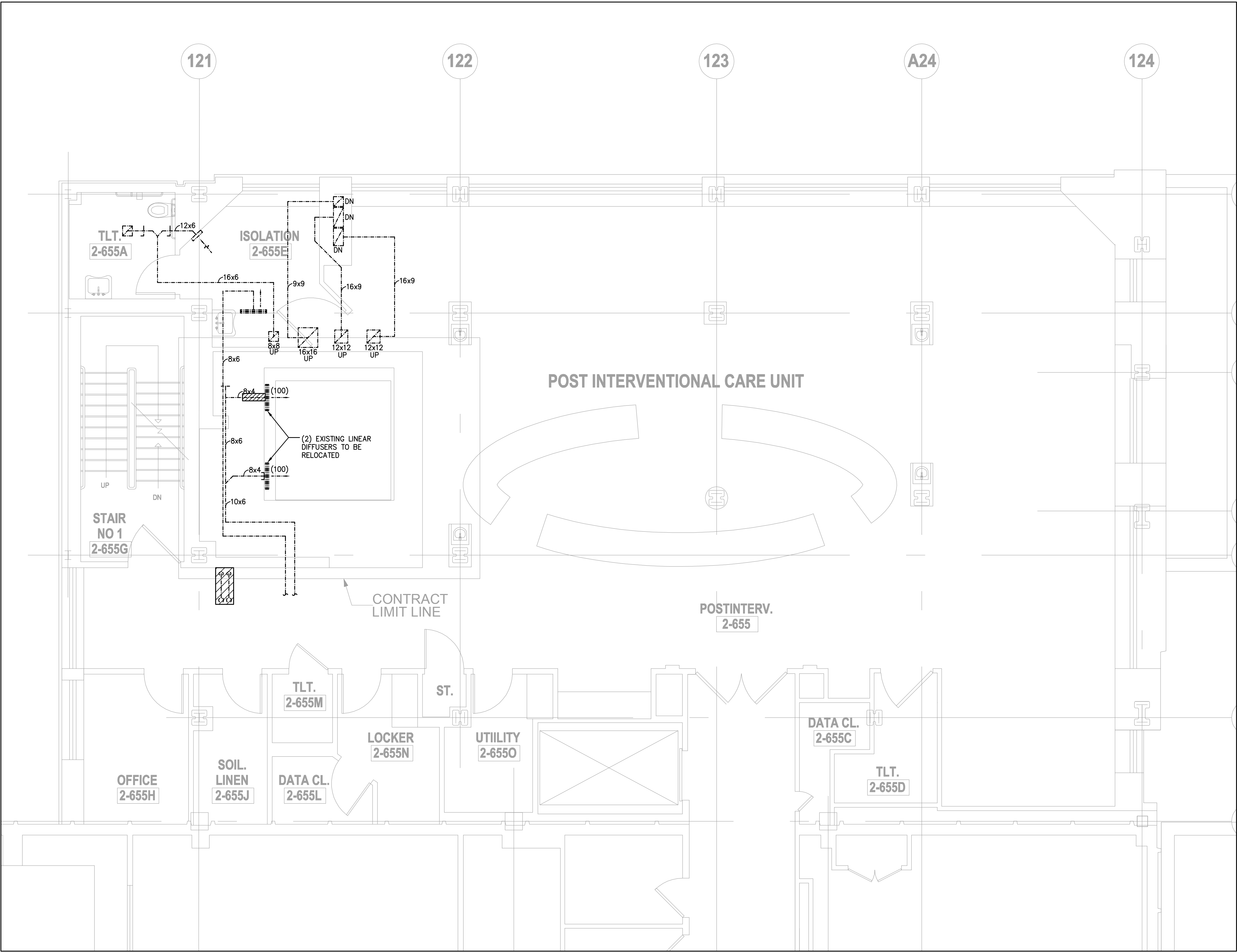
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DATE:
COS PROJECT NO. 4120-03
DRAWN:
SCALE: 1/4"=1'-0"
DRAWING NO.
DM-101.00
CAD FILE NO.
2 OF 10

**PROGRESS SET:
12/10/12**

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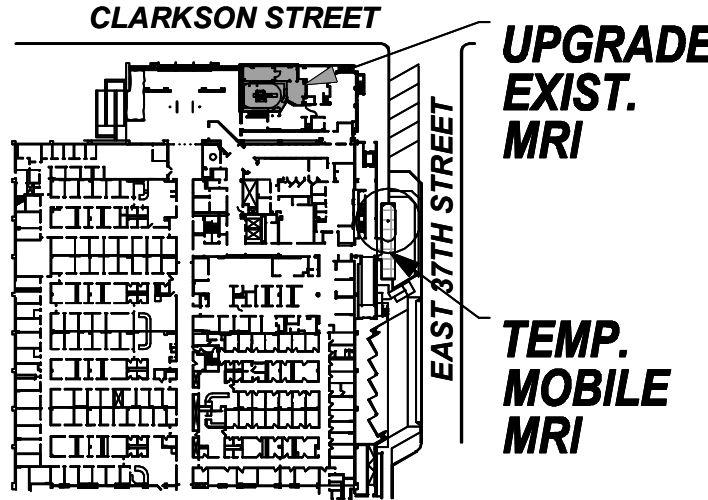
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SITE PLAN



ISSUES:

MARKS:	DATE:

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

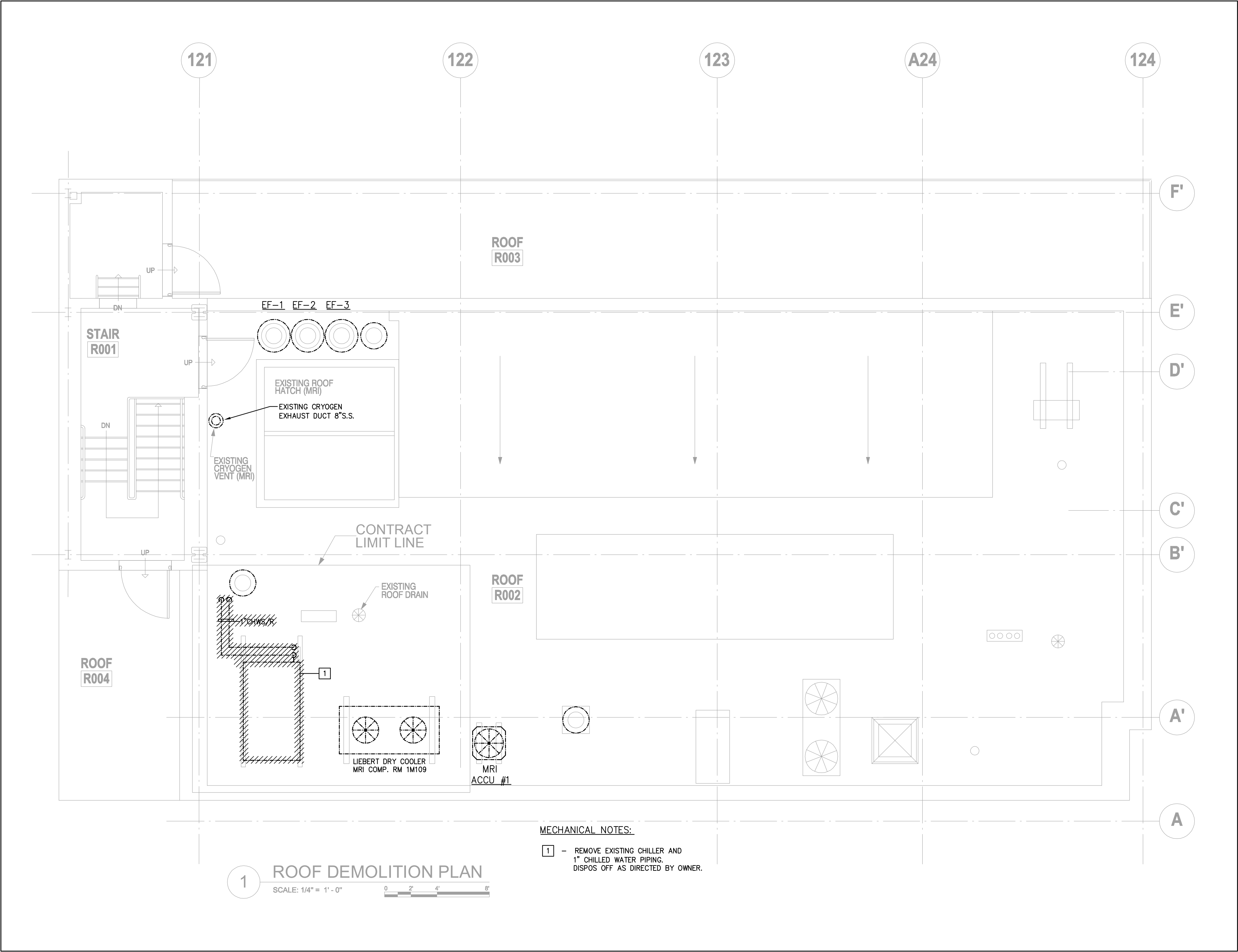
**MECHANICAL SECOND
FLOOR DEMO PLAN**

SEAL & SIGNATURE:


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COS PROJECT NO.	4120-03
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DRAWING NO.	DM-102.00
CAD FILE NO.	4 OF 10

**PROGRESS SET:
12/10/12**

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OWNER:



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SITE PLAN

CLARKSON STREET

EAST 37TH STREET

UPGRADE EXIST. MRI

TEMP. MOBILE MRI

ISSUES:

MARKS:	DATE:

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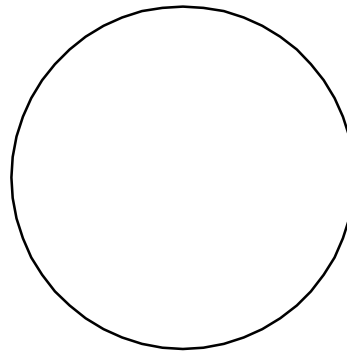
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**MECHANICAL
ROOF DEMO PLAN**

SEAL & SIGNATURE:



DATE:

COS PROJECT NO. 4120-03

DRAWN:

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

DRAWING NO.

DM-103.00

CAD FILE NO.

6 OF 10

PROGRESS SET:

12/10/12

KEY OF SYMBOLS AND ABBREVIATIONS				NOTE: THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.			
		FLEXIBLE CONNECTOR		NEW WORK	AC	AIR CONDITIONING	
		FLANGED CONNECTION		EXISTING WORK	ACU	AIR CONDITIONING UNIT	
		UNION FITTING		CONNECT NEW WORK TO EXISTING	AD	ACCESS DOOR	
		PIPE GUIDE		CUT & CAP	CD	CEILING DIFFUSER	
		PIPE ANCHOR		CONDENSATE DRAIN RISER	CFM	CUBIC FEET PER MINUTE	
		VALVED CAPPED OUTLET			CG	CEILING GRILLE	
		EXPANSION JOINT		CEILING DIFFUSER	CR	CEILING REGISTER	
		REDUCER		RETURN GRILLE	DN	DOWN	
		PIPE UP		TOP REGISTER	EF	EXHAUST FAN	
		PIPE DN		RETURN/EXHAUST AIR SUPPLY AIR	FC	FLEXIBLE CONNECTION	
		FLOW DIRECTION		AIR QUANTITY (200 CFM)	FD	FLOOR DRAIN	
		PIPE PITCH UP OR DOWN		ELECTRICAL RADIANT PANEL	GC	GENERAL CONTRACTOR	
		EXPANSION LOOP		THERMA FUSER LINEAR DIFFUSER	GE	GENERAL EXHAUST	
		CHILLED WATER SUPPLY		PLENUM SLOT DIFFUSER, SUPPLY	GP	GLYCOL PUMP	
		CHILLED WATER RETURN		EXISTING DUCTWORK, PIPING OR EQUIPMENT TO REMAIN.	GPM	GALLONS PER MINUTE	
		DRAIN LINE		EXISTING DUCTWORK, PIPING OR EQUIPMENT TO BE REMOVED.	HP	HORSEPOWER	
		PUMP DISCHARGE			RA	RETURN AIR	
		REFRIGERANT LIQUID LINE			UL	UNDERWRITER'S LABORATORY	
		REFRIGERANT SUCTION LINE					
		VENT OR RELIEF LINE					

GENERAL NOTES:	
1.	CONTRACTOR TO RUN DUCTWORK AND PRESSURE PIPING UP AND DOWN TO COORDINATE WITH OTHER TRADES AND ARCHITECT'S CEILING REQUIREMENTS. ALL GRAVITY PIPING (DRAIN PIPING) TO PITCH DOWN IN DIRECTION OF FLOW. PROVIDE CONDENSATE PUMPS AS REQUIRED IF THE DRAIN PIPING CAN NOT BE PITCHED.
2.	ALL FLOOR MOUNTED EQUIPMENT TO BE MOUNTED ON MINIMUM 4" HOUSEKEEPING PADS TO BE PROVIDED BY GC.
3.	PROVIDE FSD W/ACCESS DOOR AT ALL DUCTS WHICH PENETRATE 2-HOUR FIRE RATED WALL/ SHAFT/SLAB, WHETHER SHOWN HERE OR NOT. PROVIDE DUCT SMOKE DETECTOR AND SM AS PART OF THE HVAC SYSTEM. SEE THE LATEST ARCHITECTURAL DRAWINGS FOR THE EXTEND OF 2-HR FIRE RATED CONSTRUCTION
4.	FOR EXACT LOCATIONS OF ALL VISIBLE ELEMENTS, INCLUDING GRILLES, DIFFUSERS, THERMOSTATS, ETC, REFER TO ARCHITECTURAL DOCUMENTS.
5.	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL DRAWING LIST	
DWG. #	DESCRIPTION
M-001.00	MECHANICAL GENERAL NOTES, KEY OF SYMBOLS, AND DRAWING LIST
DM-101.00	MECHANICAL FIRST FLOOR DEMO PLAN
M-101.00	MECHANICAL FIRST FLOOR DEMO PLAN
DM-102.00	MECHANICAL SECOND FLOOR DEMO PLAN
M-102.00	MECHANICAL SECOND FLOOR DEMO PLAN
DM-103.00	MECHANICAL ROOF DEMO PLAN
M-103.00	MECHANICAL ROOF DEMO PLAN
M-301.00	MECHANICAL RISER DIAGRAM
M-401.00	MECHANICAL SPECIFICATIONS
M-501.00	MECHANICAL DETAIL SHEET 1

ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE COMPLIANCE STATEMENT:	
TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE ECCCNY 2010.	

HVAC GENERAL NOTES:	
1.	CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED BY LOCAL AND STATES CODES.
2.	WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL BE COORDINATED IN THE FIELD TO SUIT CONDITIONS.
3.	ALL DUCTWORK IS TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
4.	PROVIDE VOLUME DAMPERS ON ALL TAPS FOR ALL LOW PRESSURE DUCTWORK. DO NOT INSTALL DAMPERS ON MEDIUM PRESSURE DUCTWORK, UPSTREAM OF THE VAV BOXES.
5.	ACCESS IS REQUIRED BELOW ALL DAMPERS, VALVES, VAV BOXES AND EQUIPMENT.
6.	FOR EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.
7.	FOR EXACT LOCATION AND ARRANGEMENT OF ROOM THERMOSTATS AND EXHAUST FAN SWITCHES, SEE THE ARCHITECT'S DRAWINGS. IF NONE IS SHOWN, THERMOSTAT/SWITCH SHALL BE NEXT TO THE LIGHT SWITCH.
8.	DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
9.	DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER LATEST EDITION OF THE SMACNA DUCT CONSTRUCTION STANDARDS.
10.	FOR EXACT LOCATION OF THERMOSTATS, GRILLES, AND DIFFUSERS REFER TO ARCHITECT DRAWINGS. ALL GRILLES AND DIFFUSERS PAINTED TO MATCH ADJACENT COLORS. COLORS TO BE APPROVED BY ARCH. OWNER.
11.	ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE GALV. SHEET METAL UNLESS OTHERWISE SPECIFIED IN THE SPECS OR DWGS.
12.	ALL STRAP HANGER & SUPPORTS FOR FLEXIBLE DUCTWORK SHALL BE SIZES & INSTALLED IN ACCORDANCE W/SMACNA STANDARDS, BUT NOT LESS THAN 1-1/2" WIDE.
13.	PROVIDE MINIMUM OF R-4.2 ON DUCTWORK ABOVE CEILING. ALL FLEXIBLE DUCTWORK SHALL BE ALL METAL CONSTRUCTION CONSISTING OF A CORE STANDARD TRIPLE LOCK METAL FLEXIBLE DUCTING FOR STRENGTH AND AIRTIGHTNESS.
14.	AIR HANDLING UNITS OVER 2,000 CFM SHALL HAVE SMOKE DETECTORS ON THE SUPPLY DUCT. AIR HANDLING UNITS OVER 15,000 CFM SHALL HAVE SMOKE DETECTORS ON THE SUPPLY AND RETURN DUCTS.
15.	WHERE FIRE OR FIRE/SMOKE DAMPERS ARE LOCATED ABOVE A SHEETROCK/NON ACCESSIBLE CEILING, THE CEILING ACCESS DOOR SHALL BE INSTALLED TO ALLOW ACCESS TO THE DUCT ACCESS DOOR.
16.	ALL DUCTWORK IS TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
17.	WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL SET UP AND DOWN.
18.	PROVIDE COMBINATION FIRE/SMOKE DAMPERS (WITH ACCESS DOORS) AT THE FOLLOWING POINTS. A. POINT OF PASSING THROUGH SHAFT WALLS TO CONNECT TO VERTICAL RISERS B. WHERE PASSING THROUGH FLOOR OR CEILING CONSTRUCTION (NOT IN AIR SHAFTS). IF THE FLOOR AND CEILING RATED 2 HRS OR MORE. C. WHERE PASSING THROUGH FIRE RATED PARTITIONS (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED PARTITION). RATED 2 HRS OR MORE. D. WHERE INDICATED OR REQUIRED BY CODE.
19.	PROVIDE FUSIBLE LINK FIRE DAMPERS IN EXHAUST DUCTS OR SHAFTS WHERE THE EXHAUST FAN IS MAINTAINED IN OPERATION DURING OCCUPANCY I.E. TOILET EXHAUST DUCTS, ACCESS IS REQUIRED BELOW ALL DAMPERS, VALVES, EXPANSION JOINTS, AIR TERMINAL BOXES, ACCESS DOORS IN DUCTWORK AND OTHER MECHANICAL EQUIPMENT.
20.	PROVIDE VOLUME DAMPERS IN LOW PRESSURE DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST OUTLETS, PROVIDE VOLUME DAMPERS (VD) AT EVERY DUCTWORK BRANCH, TAP AND SPLIT. DO NOT INSTALL VOLUME DAMPERS ON MEDIUM PRESSURE DUCTWORK.
21.	PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: A. AUTOMATIC DAMPERS B. FIRE DAMPERS C. COMBINATION FIRE SMOKE DAMPERS D. SMOKE DAMPERS
22.	PROVIDE INSULATED CONDENSATE DRAIN TO NEAREST FLOOR DRAIN FOR ALL AC UNITS. PROVIDE CONDENSATE PUMP WITH A MIN CAPACITY OF 20"TDH@200GPH, 115V/1/60, 6FT. PLUG IN, RESERVOIR, COMPLETE VALVE PACKAGE AND ACCESSORIES IF THE CONDENSATE CAN NOT BE DRAINED BY GRAVITY.
23.	ALL COILS AND FILTERS SHALL BE INSTALLED ON TRACKS FOR EASY REMOVAL. INSTALLATIONS THAT REQUIRE DISASSEMBLY OF THE UNIT OR PLENUM FOR COIL REMOVAL ARE NOT ACCEPTABLE.

PIPE HANGER & SUPPORT SCHEDULE

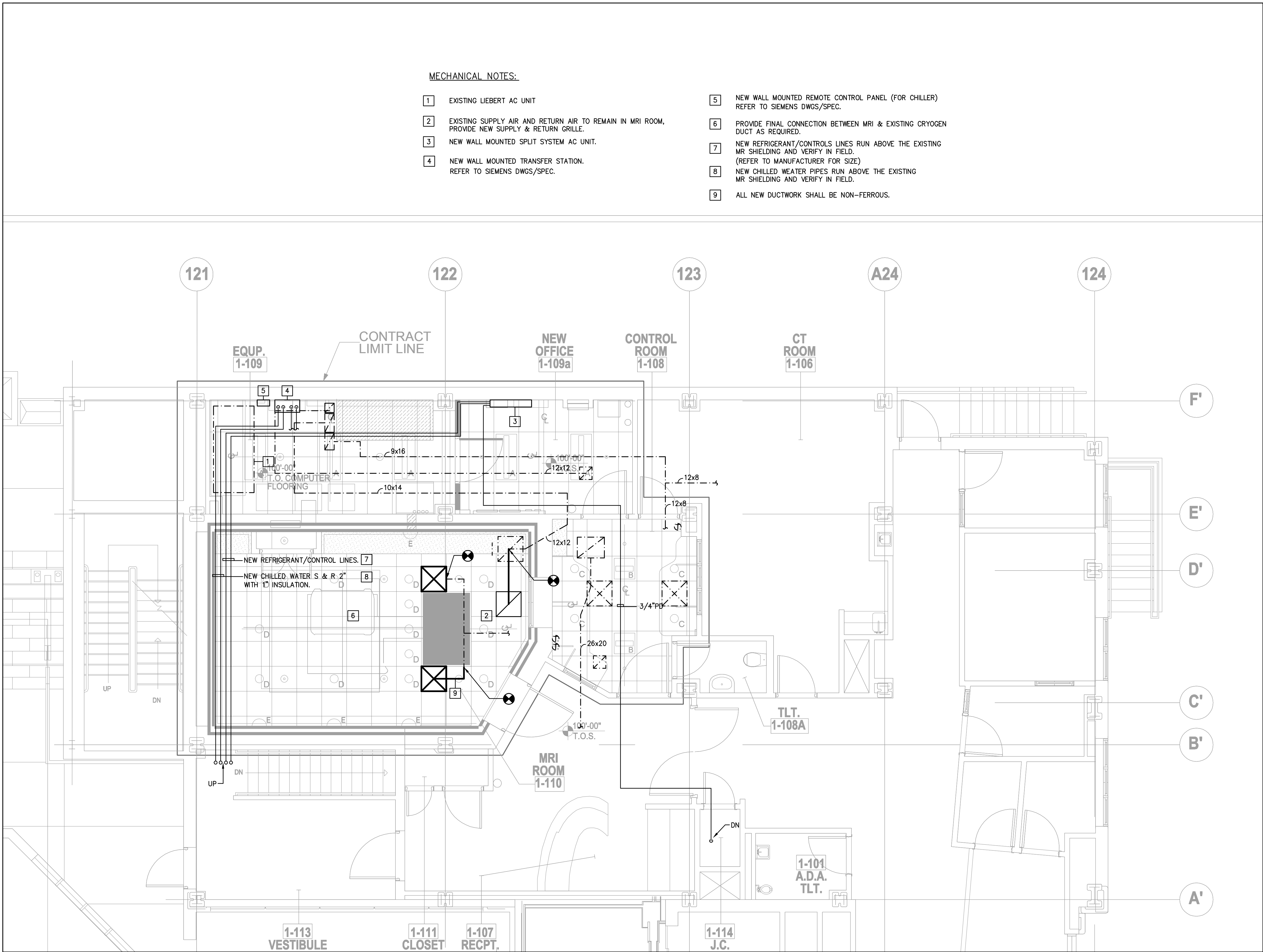
1 2 3
SHIELD SADDLE
CLEVIS HANGERS
(FOR 6" PIPE AND BELOW)

4 5 6
SHIELD SADDLE
CLEVIS ROLLER HANGERS
(FOR 6" PIPE AND BELOW)

7 8 9
SHIELD SADDLE
TWO ROD ROLLER HANGERS
(FOR 8" PIPE AND ABOVE)

10 11 12
SHIELD SADDLE
TWO ROD RIGID HANGERS
(FOR 8" PIPE AND ABOVE)

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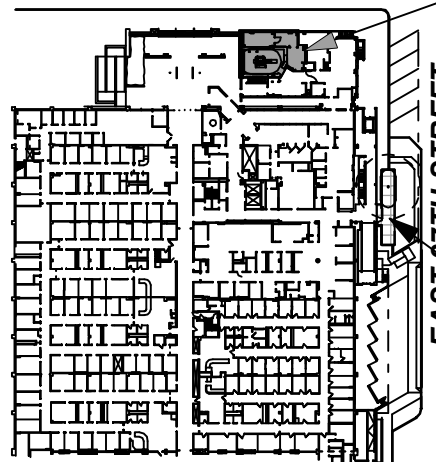
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SITE PLAN

CLARKSON STREET



ISSUES:

MARKS:	DATE:

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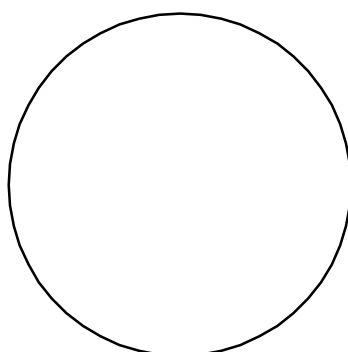
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**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**MECHANICAL
FIRST FLOOR PLAN**

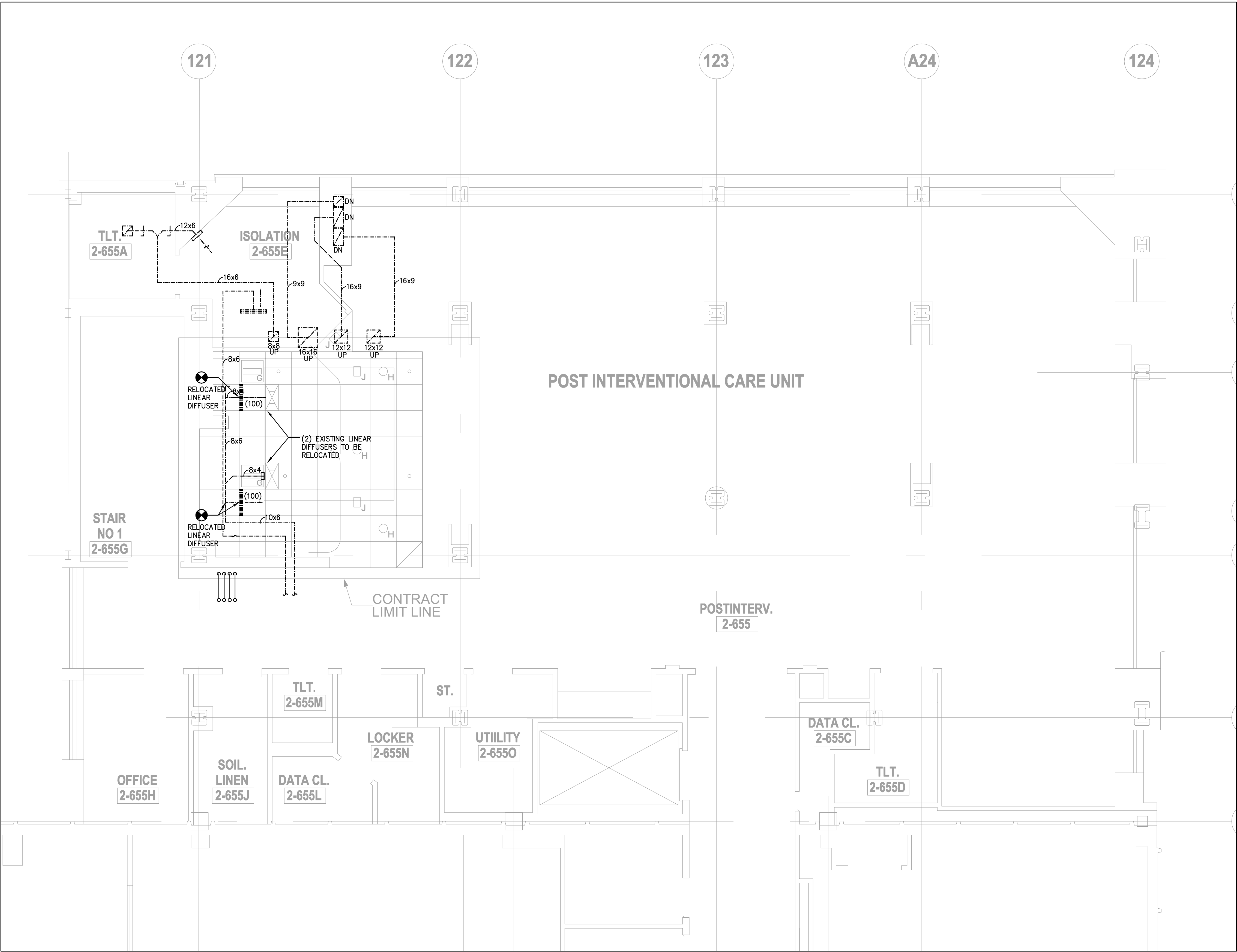
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3 OF 10

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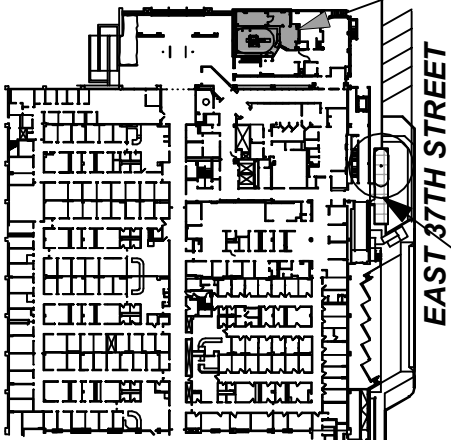
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SITE PLAN



CLARKSON STREET
EAST 37TH STREET

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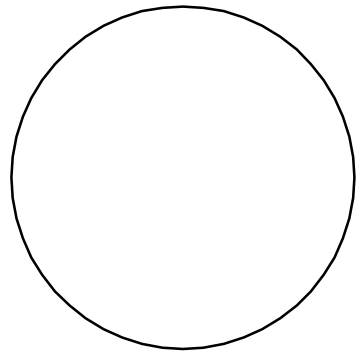
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**PHASE "2":
UPGRADING
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**MECHANICAL
SECOND FLOOR PLAN**

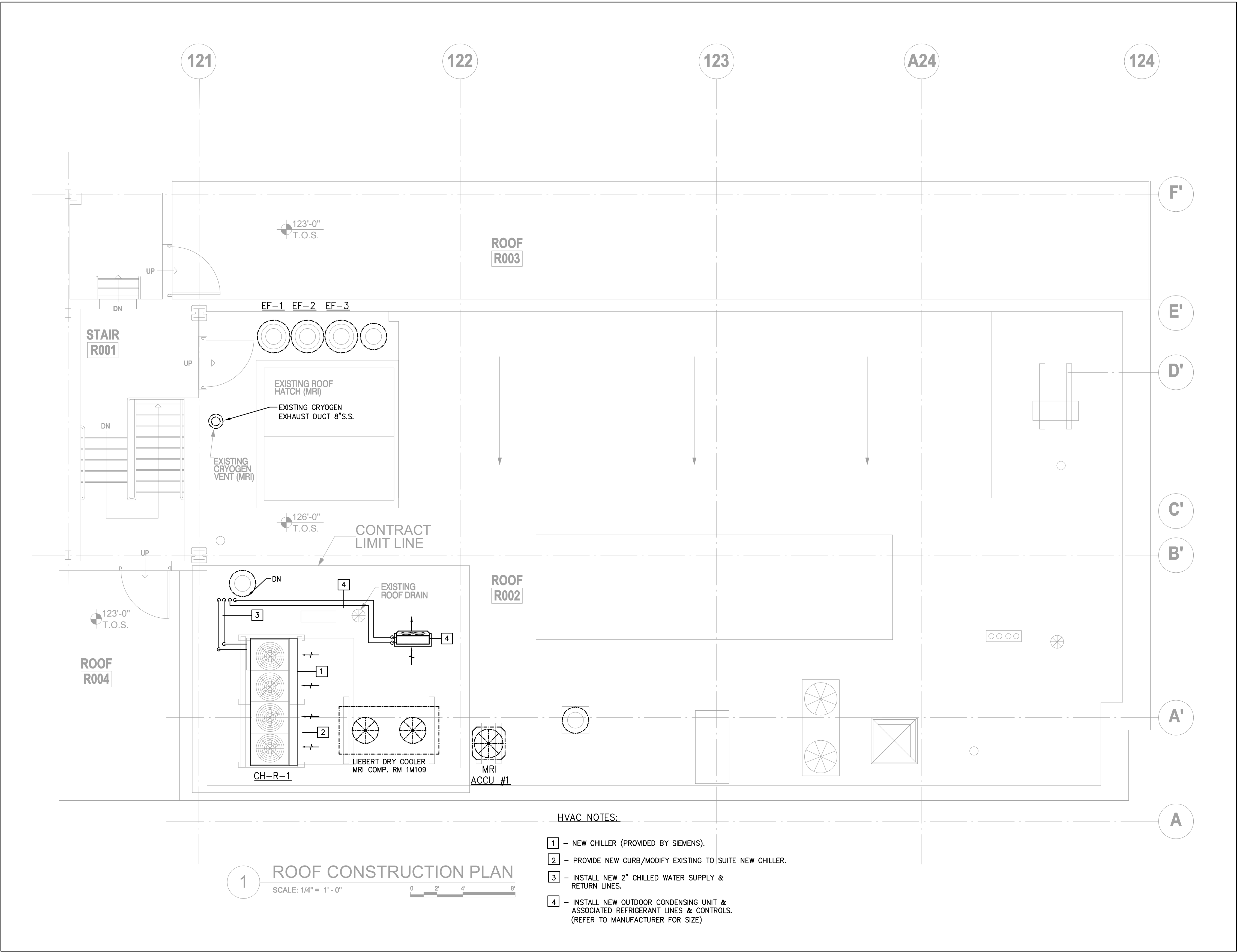
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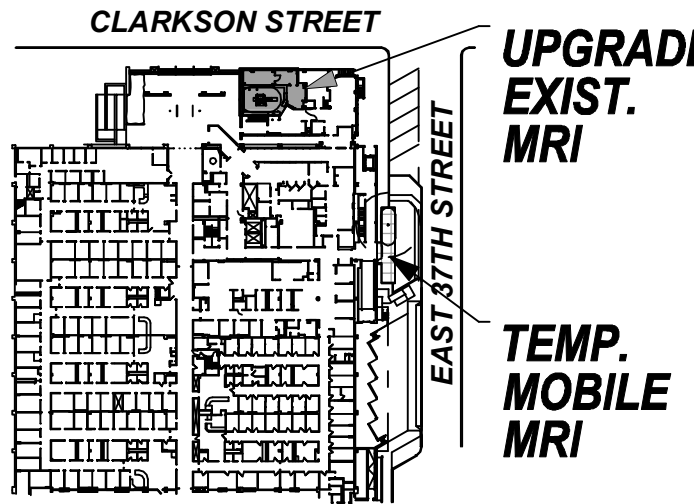
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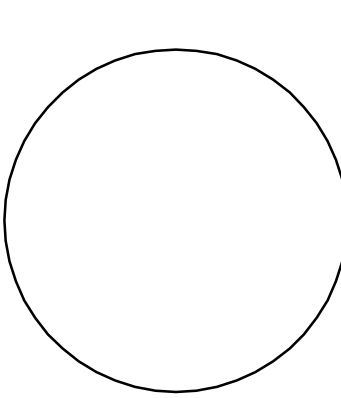
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**PHASE "2":
UPGRADING
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**MECHANICAL
ROOF PLAN**

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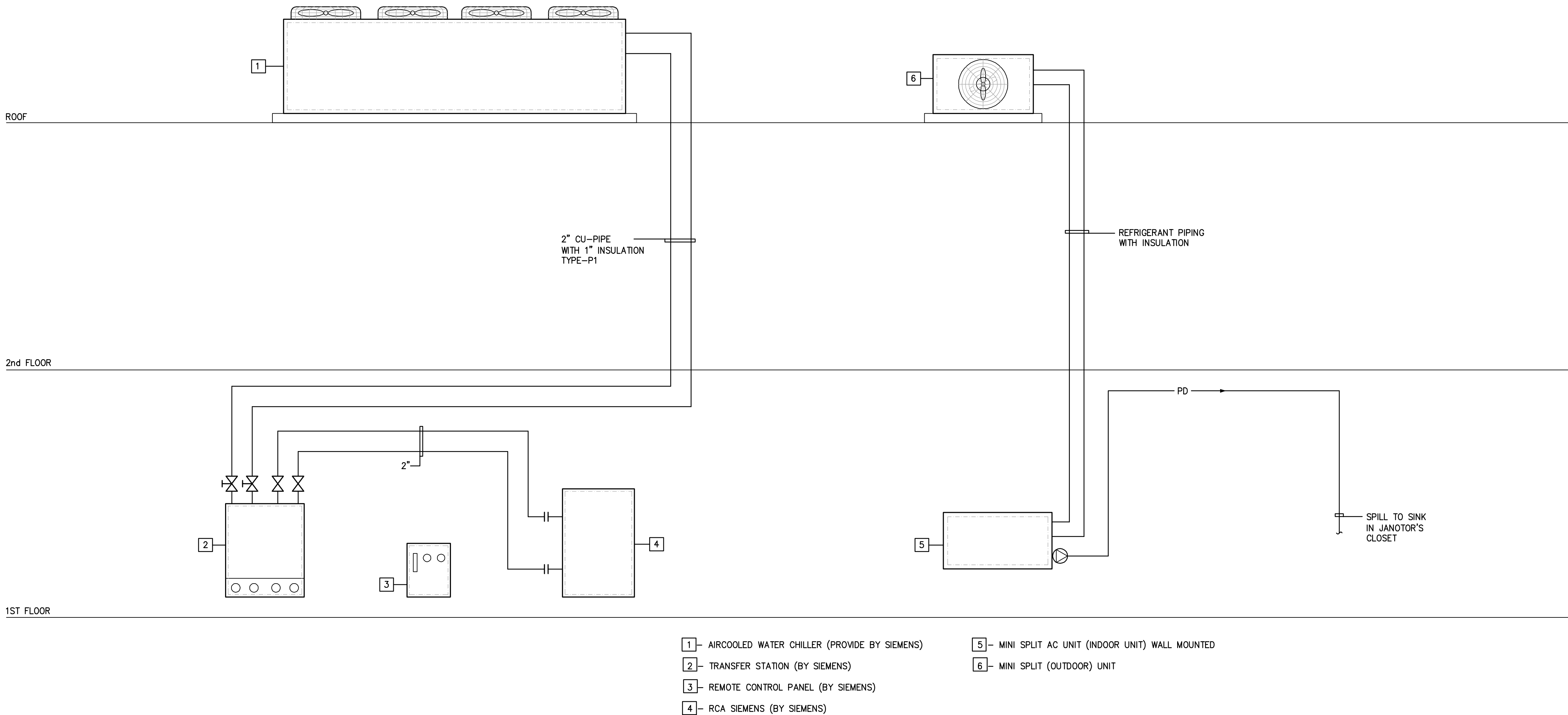
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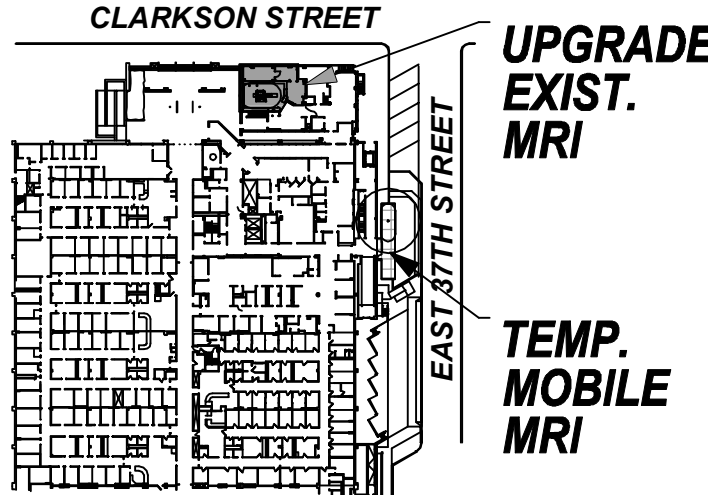
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SITE PLAN



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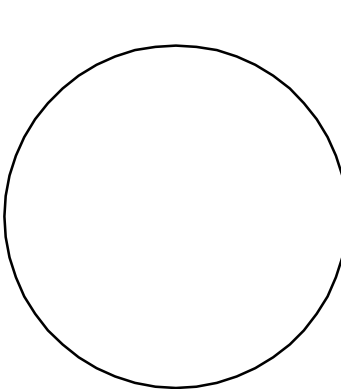
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**PHASE "2":
UPGRADING
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DRAWING TITLE

**MECHANICAL
RISER DIAGRAM**

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SCALE: N.T.S.

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8 OF 10

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MECHANICAL SPECIFICATION

1. GENERAL CONDITIONS

- A. THE APPLICABLE PROVISIONS OF THE GENERAL CONSTRUCTION SPECIFICATIONS SHALL APPLY.
- B. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.
- C. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.
- D. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER.
- E. ALL WORK IS TO BE CONDUCTED IN ACCORDANCE WITH THE BUILDING'S RULE AND REGULATIONS. A COPY OF THE REGULATIONS CAN BE OBTAINED AT THE BUILDING OFFICE.

2. OPERATING & MAINTENANCE INSTRUCTIONS

- A. AFTER FINAL TESTS AND ADJUSTMENTS, FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED.
- B. PROVIDE TO THE OWNER OPERATION AND MAINTENANCE MANUALS.
- C. GUARANTEE AND SERVICE
 - 1. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION BY THE OWNER.
 - 2. THE CONTRACTOR SHALL DURING THE PERIOD OF GUARANTEE REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT AT HIS OWN EXPENSE.

3. SHOP DRAWINGS & EQUIPMENT SUBMISSIONS

- A. SIX (6) COPIES OF DUCTWORK AND PIPING AND CERTIFIED EQUIPMENT MANUFACTURER'S DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION, ERECTION OR PURCHASE.
 - B. PRODUCT DATA - SUBMIT MANUFACTURER'S PRINTED LITERATURE, CATALOG CUTS, CERTIFIED EQUIPMENT PERFORMANCE DATA, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS.
 - C. SHOP DRAWINGS - SUBMIT PLANS, SECTIONS, DETAILS, SCHEDULES AND CALCULATIONS. LAYOUTS SHALL BE DOUBLE LINE, SCALE: 3/8"=1'-0" COORDINATED WITH OTHER TRADES AND WITH BUILDING CONSTRUCTION ELEMENTS. SUBMIT ONE REPRODUCIBLE AND FIVE (5) PRINTS OF EACH DRAWING.
 - D. MAINTENANCE MANUALS - PREPARE OPERATING AND MAINTENANCE MANUAL INCLUDING THE FOLLOWING:
 - a. MANUFACTURER'S LITERATURE DESCRIBING EACH PIECE OF EQUIPMENT.
 - b. COPIES OF PRODUCT WARRANTIES AND GUARANTIES.
 - c. OPERATING AND MAINTENANCE PROCEDURES, SERVICING INSTRUCTIONS.
 - E. ALL SHOP DRAWINGS MUST BE APPROVED BY THE BUILDING MANAGEMENT OFFICE BEFORE CONSTRUCTION PROCEEDS, INCLUDING THE FOLLOWING :
 - a. CATALOG CUTS AND PERFORMANCE OF PROPOSED MECHANICAL EQUIPMENT (6 SETS).
 - b. CONTRACTOR ? SCALE SHEET METAL SHOP DRAWINGS (6 SETS) SHOP DRAWINGS MUST BE APPROVED BY BUILDING MANAGEMENT OFFICE BEFORE CONSTRUCTION PROCEEDS.
4. RECORD DRAWINGS
- A. REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.
 - B. AS-BUILT INFORMATION SHALL BE SUBMITTED AS FOLLOWS :
 - 1. CAD DRAWING FILES ON DISKS IN AUTOCAD VERSION 12 FORMAT.
 - 2. ONE (1) SET OF REPRODUCIBLE DRAWINGS.
 - 3. TWO (2) SETS OF BLUEPRINTS.
5. TESTING, ADJUSTMENTS AND BALANCING
- A. IT IS THE INTENT UNDER THIS SECTION OF THE WORK TO OBTAIN COMPLETE BALANCING OF AIR CONDITIONING UNIT, PUMP, WATER SYSTEM, AIR OUTLET, ETC.
 - B. MAKE ALL REQUIRED ADJUSTMENTS OF WATER SYSTEM DEVICES UNTIL ALL SPECIFIED PERFORMANCES ARE MET.
 - C. ADJUST WATER BALANCING VALVES TO OBTAIN REQUIRED FLOW AND SPECIFIED PRESSURE DROPS ACROSS COILS.
 - D. PIPING SYSTEMS SHALL BE TESTED TO A HYDROSTATIC PRESSURE AT LEAST 1 1/2 TIMES THE MAXIMUM OPERATING PRESSURE (BUT NOT LESS THAN 40 LBS. PER SQ. IN.) FOR A SUFFICIENTLY LONG TIME (4 HOUR MINIMUM) TO DETECT ALL LEAKS AND DEFECTS. WHERE NECESSARY, PIPING SHALL BE TESTED IN SECTIONS TO PERMIT THE PROGRESS OF THE JOB.
6. VERIFYING EXISTING CONDITIONS, REMOVALS & ALTERATIONS
- A. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND A BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.
 - B. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED BY THE DRAWINGS OR SPECIFICATIONS AND AS MAY BE REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH THE COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.
 - C. ALL REMOVED EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE.
 - D. PROVIDE SHUTDOWNS, DRAINING AND REFILLING, RECONNECTIONS AND STARTUPS OF EXISTING SYSTEMS NECESSARY IN CONNECTION WITH THE NEW WORK. COORDINATE SHUTDOWNS WITH THE OWNER.
 - E. TEMPORARY SERVICES: PROVIDE TEMPORARY SERVICES DURING THE INTERRUPTION IN SERVICE CREATED BY THE DEMOLITION OF THE EXISTING FACILITY AND UNTIL THE NEW FACILITY BECOMES OPERATIONAL. PROCURE RENTAL EQUIPMENT OF ADEQUATE CAPACITIES AND ASSUME ALL COSTS RELATED TO THIS INSTALLATION AND OPERATION OF SAME. ALL COSTS RELATED TO THE INSTALLATION AND PROVIDE CONNECTIONS TO BUILDING UTILITIES INCLUDING ELECTRICAL. BUILDING UTILITIES INCLUDING ELECTRICAL.

7. REMOVALS & ALTERATIONS

- A. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED BY THE DRAWINGS OR SPECIFICATIONS AND AS MAY BE REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH THE COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.
- B. ALL REMOVED EQUIPMENT AND MATERIAL SHALL BE RETURNED TO THE BUILDING MANAGEMENT FOR THEIR DETERMINATION AS TO WHAT WILL HAPPEN TO SAID EQUIPMENT OR MATERIAL.

8. GRILLES, REGISTERS AND DIFFUSERS

- A. FURNISH AND INSTALL ALL METAL DIFFUSERS, GRILLES AND REGISTERS OF MANUFACTURERS MODELS, SIZES, AIR DISTRIBUTION PATTERNS AND AIR VOLUME CAPACITIES AS SPECIFIED ON THE DRAWINGS.
- B. ALL AIR OUTLETS SHALL BE STEEL AND BE FACTORY PAINTED WITH ACRYLIC WHITE ENAMEL PAINT FINISH OR OTHER COLOR AS DIRECTED BY ARCHITECT.
- D. A SCHEDULE OF DIFFUSERS, GRILLES AND REGISTERS WITH MANUFACTURERS MODELS, SIZES, ACCESSORIES, FINISHES, ETC., SHALL BE SUBMITTED FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION AND DELIVERY.

9. INSULATION/LINING REQUIREMENTS

- A. INSULATION SHALL BE APPLIED TO PIPING OF MATERIALS AS SPECIFIED BELOW.
- C. INSULATION/LINING SHALL HAVE COMPOSITE (INSULATION OR FACING AND ADHESIVE USED TO ADHERE THE FACING TO THE INSULATION) FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E.84, NFPA 255 OR UL 723 NOT EXCEEDING:

FLAME SPREAD	25
SMOKE DEVELOPED	50

ACCESSORIES SUCH AS ADHESIVES, MASTICS, CEMENTS AND TAPES FOR FITTINGS SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE. ALL PRODUCTS OR THEIR SHIPPING CARTONS SHALL BEAR A LABEL INDICATING THAT FLAME AND SMOKE RATINGS DO NOT EXCEED REQUIREMENTS. TREATMENT OF FACING TO IMPART FLAME AND SMOKE-SAFETY SHALL BE PERMANENT. THE USE OF WATERSOLUBLE TREATMENTS IS PROHIBITED.

D. PIPING INSULATION

- 1. INSULATION SHALL BE GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.24 AT 75 DEGREES F MEAN TEMPERATURE WITH FACTORY APPLIED ALL-SERVICE JACKET.
- 2. JACKET LAPS AND BUTT STRAPS SHALL BE ADHERED NEATLY IN PLACE WITH BENJAMIN FOSTER 85-20 OR APPROVED EQUAL. END OF PIPE INSULATION SHALL BE SEALED OFF WITH BF 30-35 AT ALL FLANGES, VALVES AND FITTINGS AND AT INTERVALS OF NOT MORE THAN 21 FEET ON CONTINUOUS RUNS OF PIPE.
- 3. CONCEALED FITTINGS AND VALVES SHALL BE INSULATED WITH MINIMUM ONE-POUND DENSITY FSK-FACED FIBERGLASS BLANKET WRAPPED FIRMLY UNDER COMPRESSION (MINIMUM 2-1) AND SECURED WITH 18 GAGE COPPER-CLAD WIRE. EXPOSED EDGES OF INSULATION SHALL BE SEALED OFF WITH BF 30-35. FINISHED THICKNESS OF INSULATION ON FITTINGS AND VALVES SHALL BE AT LEAST AS GREAT AS THAN ON ADJOINING PIPES.
- 4. EXPOSED FITTINGS, VALVES AND ALL FLANGES SHALL BE INSULATED WITH MOLDED FITTING COVERS OR FABRICATED SEGMENTS OF PIPE INSULATION. FLANGE INSULATION SHALL EXTEND A MINIMUM OF 1" BEYOND THE END OF THE BOLTS, AND THE BOLT AREA SHALL BE FILLED WITH MINERAL WOOL CEMENT. INSULATION ON EXPOSED FITTINGS AND VALVES AND ALL FLANGES SHALL BE VAPOR SEALED BY IMBEDDING A LAYER OF WHITE OPEN WEAVE (20x20) GLASS FABRIC IN A 1/16" THICK COAT OF BF 30-35 AND THEN APPLYING A SECOND COAT IN THE SAME THICKNESS AFTER THE FIRST COAT HAS DRIED.

E. EXTENT OF PIPING INSULATION

- 1. CHILLED WATER SUPPLY & RETURN PIPING
- 2. CONDENSATE DRAIN PIPING
- 3. GLYCOL CONDENSER WATER (ALUMINUM JACKET FOR EXTERIOR PIPING).

10. MATERIALS FOR PIPE

- A. PIPE SHALL BE FABRICATED FROM THE FOLLOWING:

DRAINS, VENTS, RELIEF TYPE K KOPPEL
2" DIA. & LESS TYPE " K" COPPER (BRAZED)
GLYCOL/CONDENSER WATER/CHILLED WATER

- B. ALL COPPER TUBING SHALL BE NOT LESS THAN 99.9 PERCENT PURE COPPER, AS MANUFACTURED BY REVERE COPPER AND BRASS CO., CHASE BRASS AND COPPER CO., INC., BRIDGEPORT BRASS CO., OR OTHER APPROVED. WHEREVER POSSIBLE, TUBING SHALL BE CONTINUOUS WITH COUPLINGS UP TO 20 FT. IN LENGTH. TUBING SHALL CONFORM TO ASTM B88.
- C. PIPING SPECIFICATIONS SHALL BE SUBMITTED WITH SHOP DRAWNGS.
- D. PROVIDE DIELECTRIC UNIONS AT THE CONNECTION POINT OF DISSIMILAR METALS.
- E. ALL CONDENSER WATER PIPING TO HAVE BRAZED CONNECTIONS SPECIFIED.

11. HANGERS, SUPPORTS, ANCHORS AND GUIDES

- A. ALL REQUIRED SUPPORTS, HANGERS, ANCHORS AND GUIDES SHALL BE PROVIDED AND INSTALLED BY THIS CONTRACTOR AND SHALL BE SEMICALLY DESIGNED.

12. EQUIPMENT SCHEDULE

- A. FURNISH AND INSTALL ALL ITEMS AS HEREIN SPECIFIED OR SHOWN ON DRAWINGS AND THOSE ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

13. BUILDING MANAGEMENT SYSTEM (BMS)

- A. NEW CHILLER SHALL BE CONNECTED TO EXISTING BMS SYSTEM.

14. VIBRATION ISOLATION FOR ROOF MOUNTED AIR COOLED CHILLER

- 1. PROVIDE SEISMICALLY RESTRAINED SPRING ISOLATOR "TYPE-B"
- 2. DEFLECTION : 2"
- 3. SIMILAR TO VMC : AWRS, ASM AB : CT, SWSR

OWNER:



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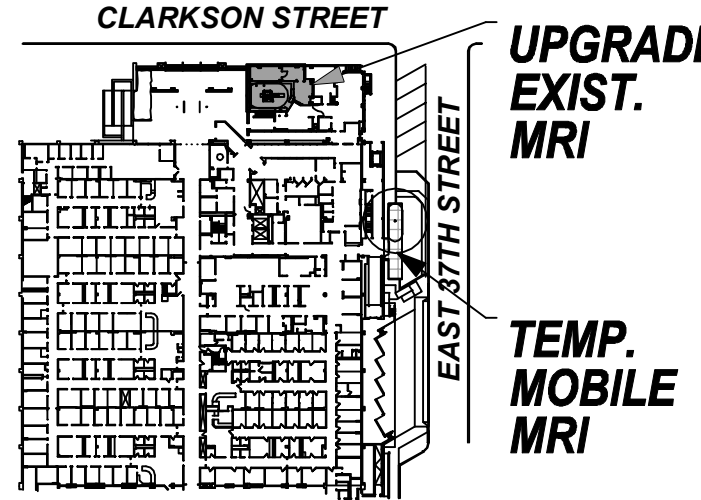
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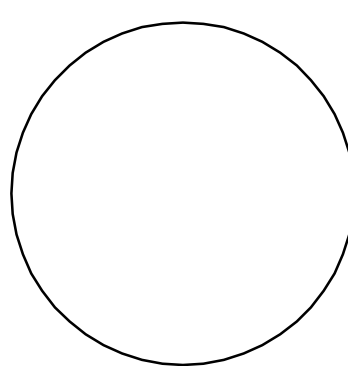
PROJECT TITLE

PHASE "2":
UPGRADING
EXISTING MRI

DRAWING TITLE

MECHANICAL
SPECIFICATIONS

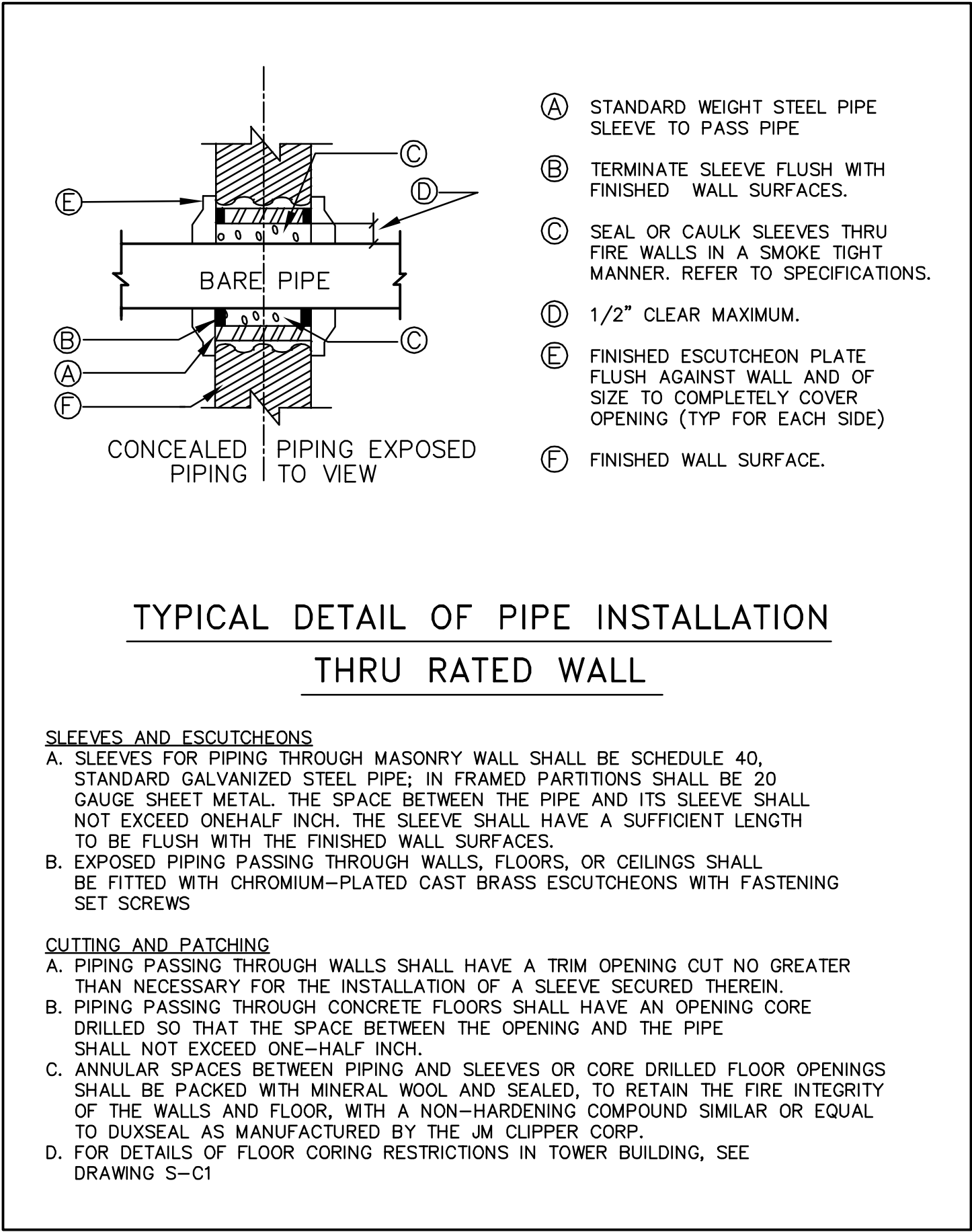
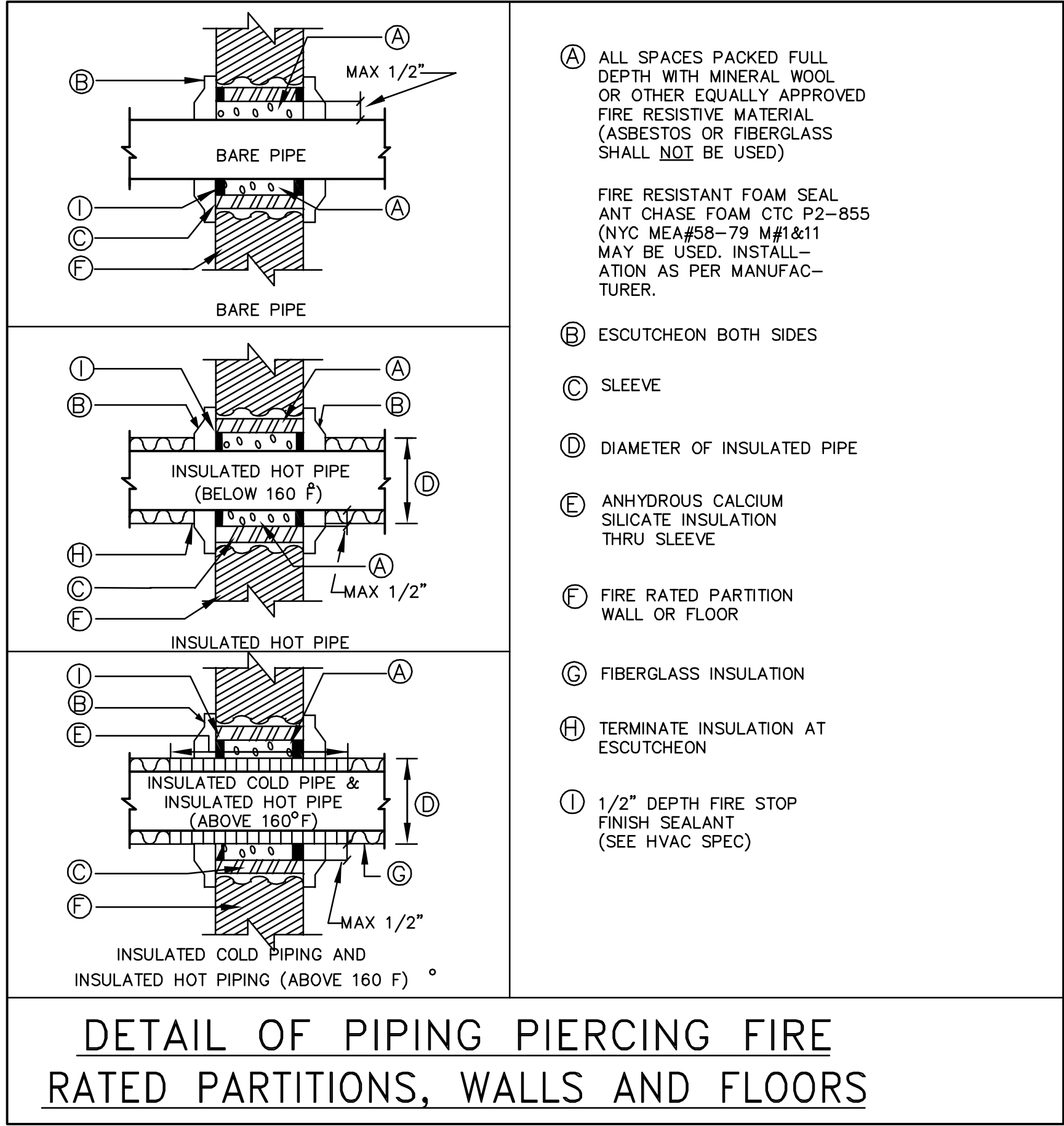
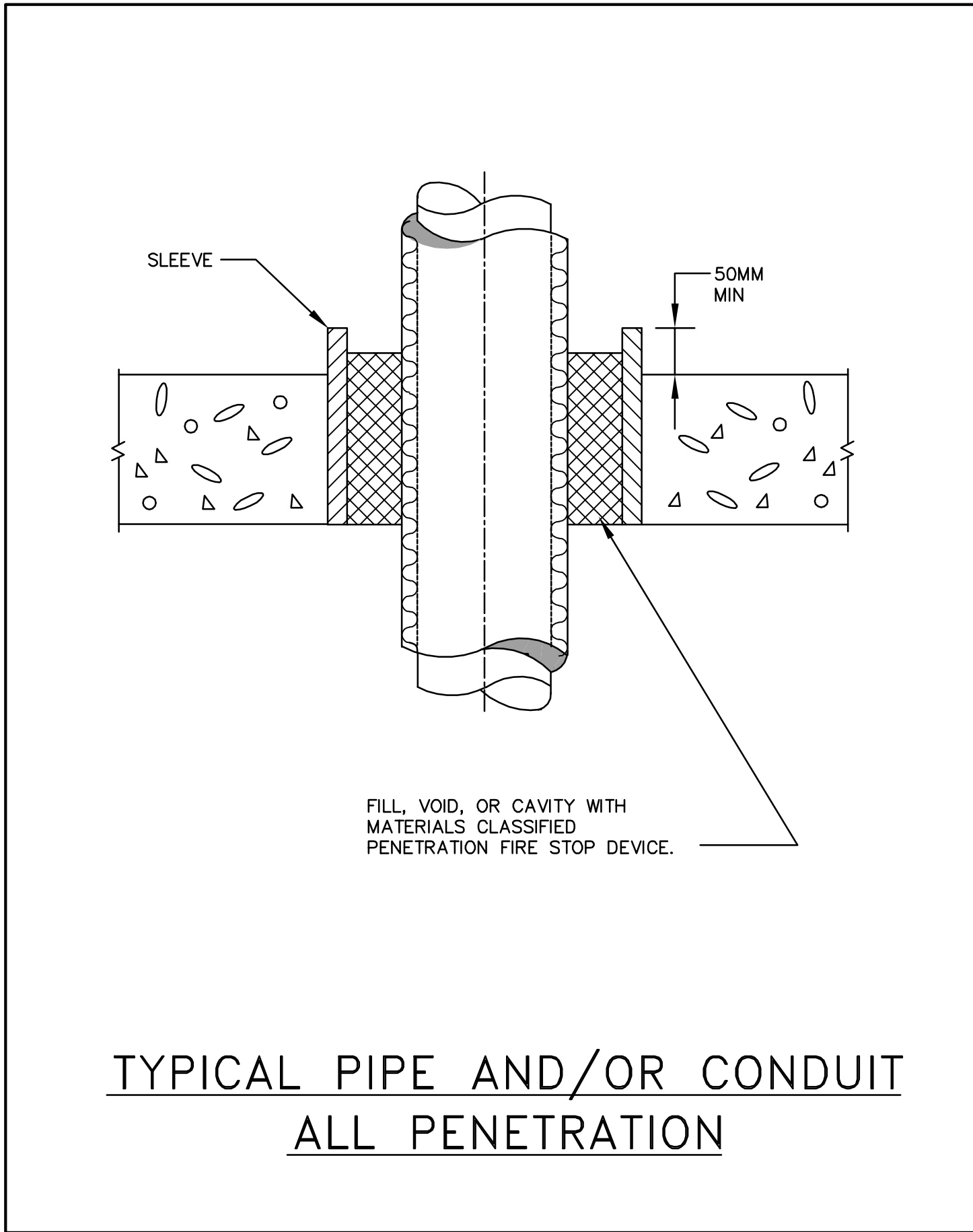
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PROGRESS SET:
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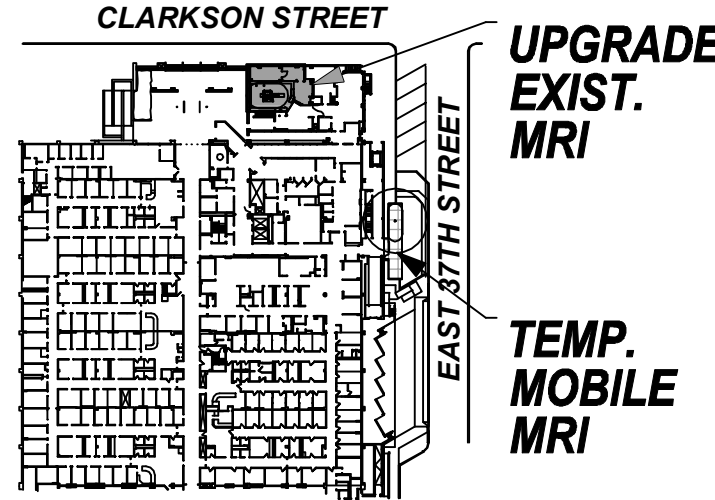
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SITE PLAN



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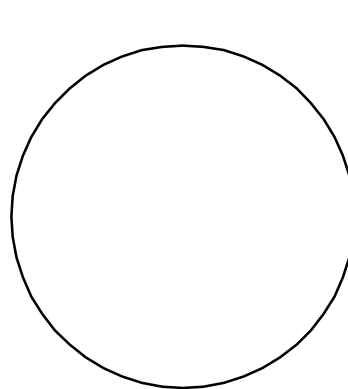
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**MECHANICAL
DETAIL SHEET 1**

SEAL & SIGNATURE:



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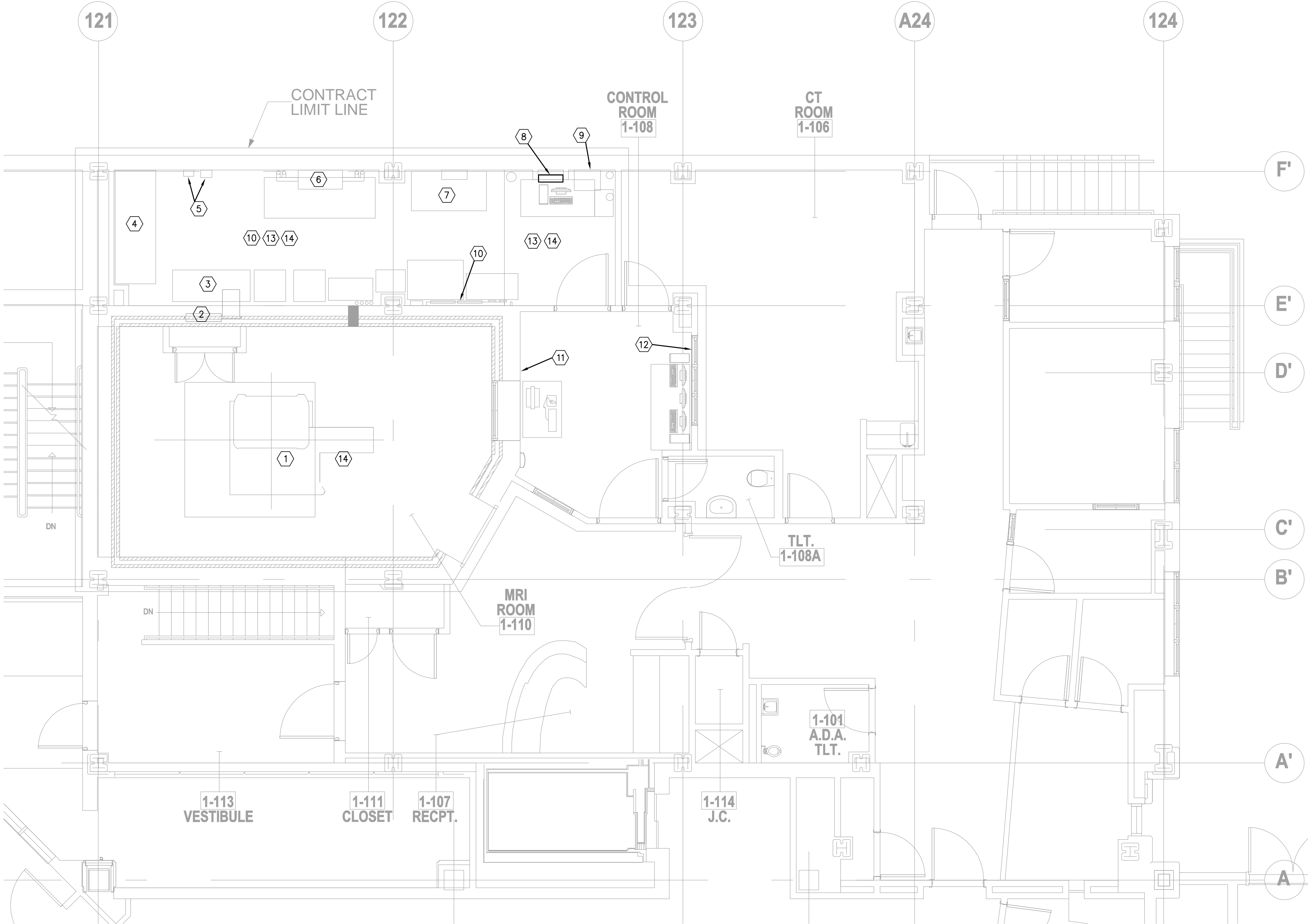
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NOTES:

- ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN AND SUCH AN EXAMINATION BEEN MADE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONFER WITH THE ARCHITECT.
- REFER TO ARCHITECTURAL DEMOLITION PLAN FOR ADDITIONAL INFORMATION OF THE DEMOLITION WORK.
- HOSPITAL FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIME (BEFORE, DURING AND AFTER DEMOLITION).
- POWER CONTINUITY FOR THE AREA OUTSIDE OF THE DEMOLITION AREA SHALL REMAIN INTACT. ELECTRICAL CONTRACTOR SHALL PERFORM CIRCUIT TRACING AS REQUIRED.

DEMOLITION FLAG NOTES:

- DISCONNECT AND REMOVE EXISTING MRI MACHINE AND ITS ASSOCIATED POWER AND CONTROL WIRING FROM MRI CONTROL EQUIPMENT; FOLLOW MANUFACTURER'S DEMOLITION GUIDELINE AS REQUIRED.
- EXISTING MRI SYSTEM PENETRATION OPENING TO BE CLEAN AND REMOVED ALL EXISTING WIRING AND CABLES, UNLESS OTHERWISE NOTED.
- EXISTING MRI SYSTEM CABINETS TO BE DISCONNECTED AND REMOVED. EXISTING 175A FEEDER TO BE SAVED AND PROTECTED FOR FUTURE CONNECTION.
- DISCONNECT AND REMOVE EXISTING LIEBERT AC UNITS AND ITS POWER AND CONTROL WIRING FROM THE POWER SOURCE AND CONTROL PANEL RESPECTIVELY.
- DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH OF THE LIEBERT UNIT.
- DISCONNECT AND REMOVE EXISTING AC UNIT CONTROL PANEL AND ITS POWER FEED, BACK TO ITS RESPECTIVE POWER SOURCE.
- DISCONNECT AND REMOVE EXISTING UPS MODULES AND ITS BATTERY CABINET. DISCONNECT AND REMOVE ALL EXISTING POWER AND CONTROL WIRING, BACK TO ITS RESPECTIVE POWER SOURCE.
- EXISTING DC LIGHTING CONTROL PANEL TO REMAIN; PROTECT IT FROM DAMAGE DURING DEMOLITION.
- EXISTING HOSPITAL NETWORK CABINET TO REMAIN; PROTECT IT FROM DAMAGE DURING DEMOLITION.
- EXISTING HALON CONTROL PANEL, PULL STATION AND ITS ASSOCIATED EQUIPMENT TO BE DISCONNECT AND REMOVED. REFER TO FIRE PROTECTION AND PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION. POWER SOURCE FOR HALON CONTROL PANEL TO BE PULL BACK TO THE RESPECTIVE POWER SOURCE.
- EXISTING WALL MOUNTED RECEPTACLES AND DATA OUTLETS SHALL BE EXISTING TO REMAIN, EXCEPT FOR THE DEVICES WHICH ARE ASSOCIATED WITH THE EXISTING MRI SYSTEM.
- EXISTING WALL MOUNTED RECEPTACLES AND DATA OUTLETS SHALL BE EXISTING TO REMAIN, EXCEPT FOR THE DEVICES WHICH ARE ASSOCIATED WITH THE EXISTING MRI SYSTEM.
- EXISTING WALL MOUNTED RECEPTACLES AND DATA OUTLETS SHALL BE EXISTING TO REMAIN, EXCEPT FOR THE DEVICES WHICH ARE ASSOCIATED WITH THE EXISTING MRI SYSTEM.
- ALL EXISTING LIGHTING FIXTURES TO BE DISCONNECTED AND REMOVED FROM THIS AREA; PULL BACK TO THE RESPECTIVE POWER SOURCE.

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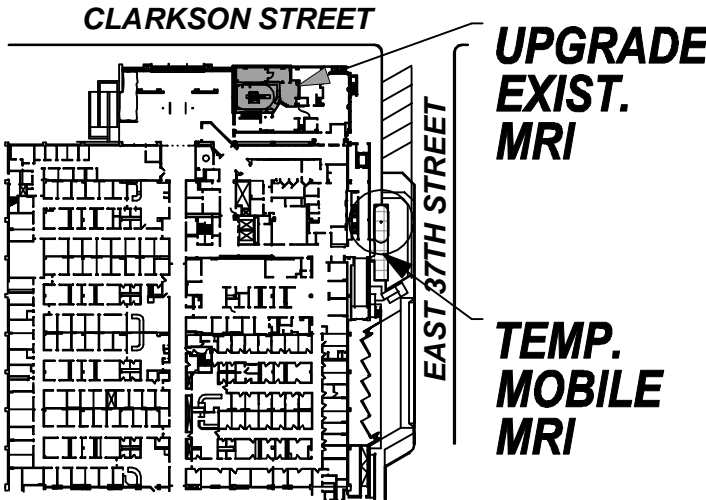
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SITE PLAN



ISSUES:

MARKS:	DATE:

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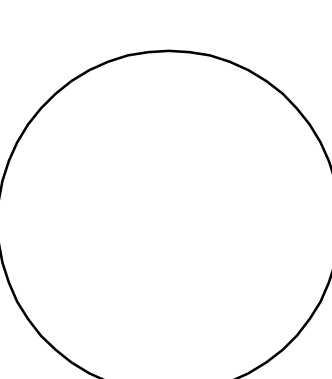
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ELECTRICAL
FIRST FLOOR
DEMOLITION PLAN**

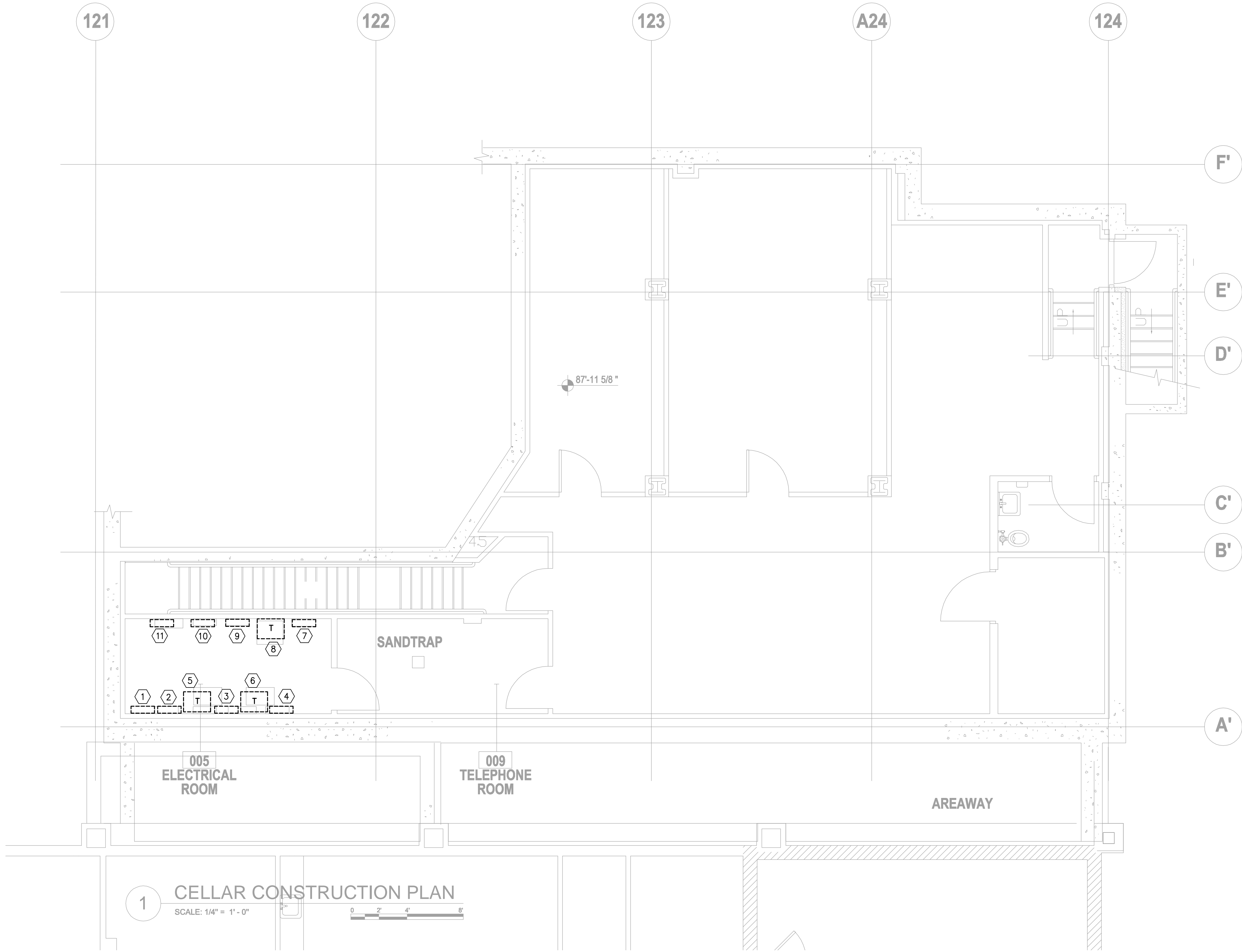
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DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	DE-101.00
CAD FILE NO.	

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12/10/12

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- FLAG NOTES:
- 1 EXISTING 225A, 3ø, 4W, 120/208V PANEL "L"
 - 2 EXISTING 100A, 3ø, 4W, 120/208V PANEL "L1"
 - 3 EXISTING 400A, 3ø, 4W, 277/480V PANEL "P"
 - 4 EXISTING 100A, 3ø, 4W, 120/208, PANEL WITH NO NAME
 - 5 EXISTING 45KVA, 480V-120/208V TRANSFORMER
 - 6 EXISTING 30KVA, 480V-120/208V TRANSFORMER
 - 7 EXISTING 400A, 277/480V PANEL "PPH"
 - 8 EXISTING 30KVA, 480V-120/208V TRANSFORMER
 - 9 EXISTING 100A, 3ø, 4W, 120/208, PANEL "LP2"
 - 9 EXISTING FIRE ALARM CONTROL PANEL

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SITE PLAN

CLARKSON STREET

EAST 37TH STREET

UPGRADE EXIST. MRI

TEMP. MOBILE MRI

ISSUES:

MARKS:	DATE:

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ELECTRICAL
CELLAR PLAN**

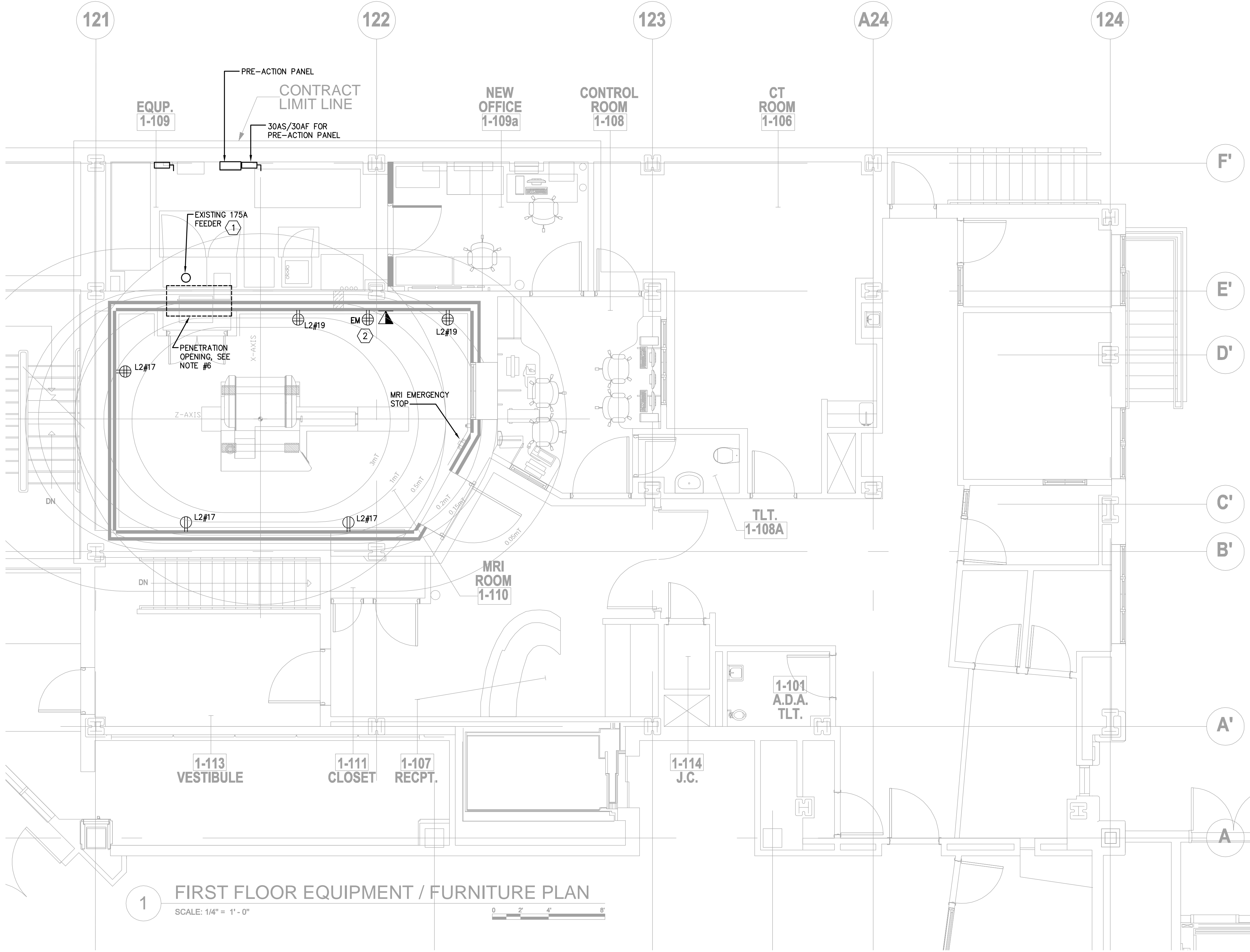
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COS PROJECT NO.	4120-03
DRAWN:	MD
SCALE:	AS NOTED
DRAWING NO.	E-100.00
CAD FILE NO.	

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NOTES:

- ELECTRICAL CONTACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN AND SUCH AN EXAMINATION BEEN MADE.
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWING TO INDICATE THE ROUTING FOR BUILDING MANAGEMENT APPROVAL AND FOR ENGINEER REVIEW. ALL ROUTING SHALL BE APPROVED BY BUILDING MANAGEMENT AND ENGINEER PRIOR TO THE INSTALLATION.
- ALL RECEPTACLES SHALL BE HOSPITAL GRADE.
- ALL GFCI RECEPTACLES SHALL BE SELF-TESTING AND FAIL SAFE TYPE.
- ALL LINE ISOLATION MONITOR (LIMS) SHALL BE SELF-TESTING AND FAIL SAFE TYPE DEVICES.
- ALL CABLES AND CONDUITS INTO THE MRI PROCEDURE ROOM SHALL ONLY BE ROUTED THROUGH THE PENETRATION OPENING BETWEEN THE PROCEDURE ROOM AND EQUIPMENT ROOM.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SIEMENS MRI MANUFACTURER FOR ALL DETAILS OF MRI POWER WIRING REQUIREMENT. REFER TO DRAWING E-401.00, E-402.00 AND E-403.00 FOR SOME ELECTRICAL DETAILS OF MRI SYSTEM. FINAL WORKING DETAILS DIAGRAM OF MRI SYSTEM SHALL BE OBTAINED FROM MRI MANUFACTURER.
- REFER TO DRAWING E-301.00 FOR FEEDER SIZE FOR HVAC EQUIPMENT.
- PROVIDE INTERCOM DEVICES AS REQUIRED; INTERCOM DEVICES SHALL MATCH HOSPITAL STANDARD.
- PROVIDE A 30AS/30AF FUSED DISCONNECT SWITCH FOR PRE-ACTION PANEL. THE FEEDER OF THE PRE-ACTION PANEL SHALL BE CONNECTED AND TAPPED AHEAD OF MAIN FROM THE NEARBY EMERGENCY PANEL.
- PROVIDE (1) 120V, 20A EMERGENCY CIRCUIT FOR ALL FIRE SMOKE DAMPERS ON THIS FLOOR FROM EMERGENCY PANEL, ERP-MRI.
- REFER TO ARCHITECTURAL DRAWINGS FOR NURSE CALL STATION LOCATIONS; PROVIDE JUNCTION BOX AND STUB-UP FOR CONNECTION. NURSE CALL DEVICES SHALL BE MATCH HOSPITAL STANDARD. COORDINATE WITH HOSPITAL ENGINEER AND ARCHITECT FOR EXACT DETAILS.
- CIRCUIT NUMBER PREFIX AS FOLLOW:
L: PANEL "L" (120/208V)
L1: PANEL "L-1" (120/208V)
L2: PANEL "L-2" (120/208V)
P: PANEL "P" (277/480V)
ALL PANELS ARE LOCATED IN THE BASEMENT, SEE DRAWING E-100.00 FOR LOCATION.

TELECOM/SECURITY NOTES:

- ELECTRICAL CONTACTOR COORDINATE WITH TELECOM/SECURITY CONSULTANT FOR EXACT DETAILS FOR TELECOM/SECURITY SYSTEM.
- ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH DRAG WIRE AND STUB UP FOR TELECOM/SECURITY SYSTEM INSTALLATION. REFER TO TELECOM/SECURITY DRAWINGS FOR ALL DETAILS.
- ALL DEVICES SHALL BE HOSPITAL GRADE AND SHALL BE MATCH HOSPITAL STANDARDS. COORDINATE WITH HOSPITAL ENGINEER AND MANAGEMENT FOR MATERIALS THAT SUITABLE FOR HOSPITAL ENVIRONMENT.

FLAG NOTES:

- CONNECT NEW MRI CABINET TO EXISTING 175A POWER FEEDER; EXTEND EXISTING WIRING WITH NEW AS REQUIRED.
- CONNECT NEW QUAD OUTLET TO 120V EMERGENCY POWER CIRCUIT. ELECTRICAL CONTRACTOR SHALL BE VERIFY IN FIELD FOR THE CLOSEST EMERGENCY PANEL.

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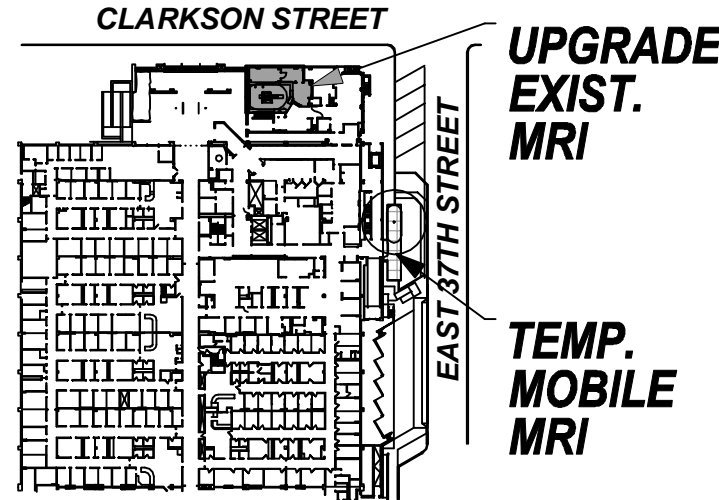
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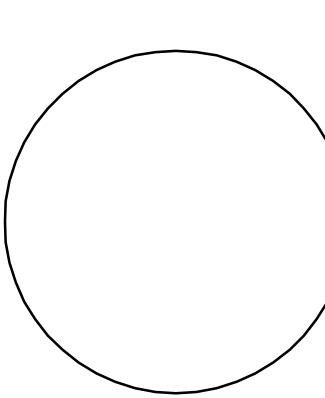
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**ELECTRICAL
FIRST FLOOR
POWER PLAN**

SEAL & SIGNATURE:



DATE: MARCH 01, 2010

COS PROJECT NO. 4120-03

DRAWN: MD

SCALE: AS NOTED

DRAWING NO.

E-101.00

CAD FILE NO.

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1. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN AND SUCH AN EXAMINATION BEEN MADE.

2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES AND JUNCTION BOXES.
4. ALL EMERGENCY AND NIGHT LIGHT SHALL BE CONNECTED TO EXISTING BUILDING EMERGENCY POWER SOURCE. COORDINATE WITH BUILDING ENGINEER FOR THE AVAILABILITY OF SPARE CIRCUIT FOR EMERGENCY AND NIGHT LIGHT.
5. ALL NEW EXIT SIGN SHALL BE CONNECTED TO EXISTING EXIT SIGN CIRCUIT SERVING THE SPACE.
6. ALL LIGHTING WIRING ROUTING SHALL BE VIA THE COMMON OPENING BETWEEN MRI ROOM AND EQUIPMENT ROOM.
7. COORDINATE LIGHTING FIXTURE TYPES AND SPECIFICATIONS WITH ARCHITECT. REFER TO LIGHTING FIXTURE SCHEDULES ON ARCHITECTURAL DRAWINGS.
8. ALL LIGHTING FIXTURES WHICH ARE CONTROLLED BY A DIMMER SWITCH SHALL BE WIRED TO A CIRCUIT WITH A DEDICATED NEUTRAL WIRE.
9. WHEN POWER OUTAGE HAPPENS, THE "EM" LIGHTS IN THE PROCEDURE ROOM SHALL BE ABLE TO BY PASS THE DIMMER AND TO POWER THE "EM" LIGHTS TO THE FULL BRIGHTNESS.

- ① CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUIT IN THIS AREA.
- ② CONNECT NEW LIGHTING FIXTURES TO EXISTING DC CIRCUIT IN THIS AREA.
- ③ PROVIDE A NEW SWITCH TO CONTROL LIGHTING FIXTURE IN THE ROOM.
- ④ NEW DC DIMMER TO CONTROL LIGHTS IN MRI ROOM
- ⑤ NEW DC SWITCH TO CONTROL LIGHT IN MRI ROOM



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CLARKSON STREET

**UPGRADE
EXIST.
MRI**

TEMP. MOBILE MRI

[illegible]

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PHASE "2": UPGRADING EXISTING MRI

ELECTRICAL FIRST FLOOR LIGHTING PLAN

DATE: MARCH 01, 2010

COS PROJECT NO.	4120-03
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DRAWN:	MD
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SCALE:	AS NOTED
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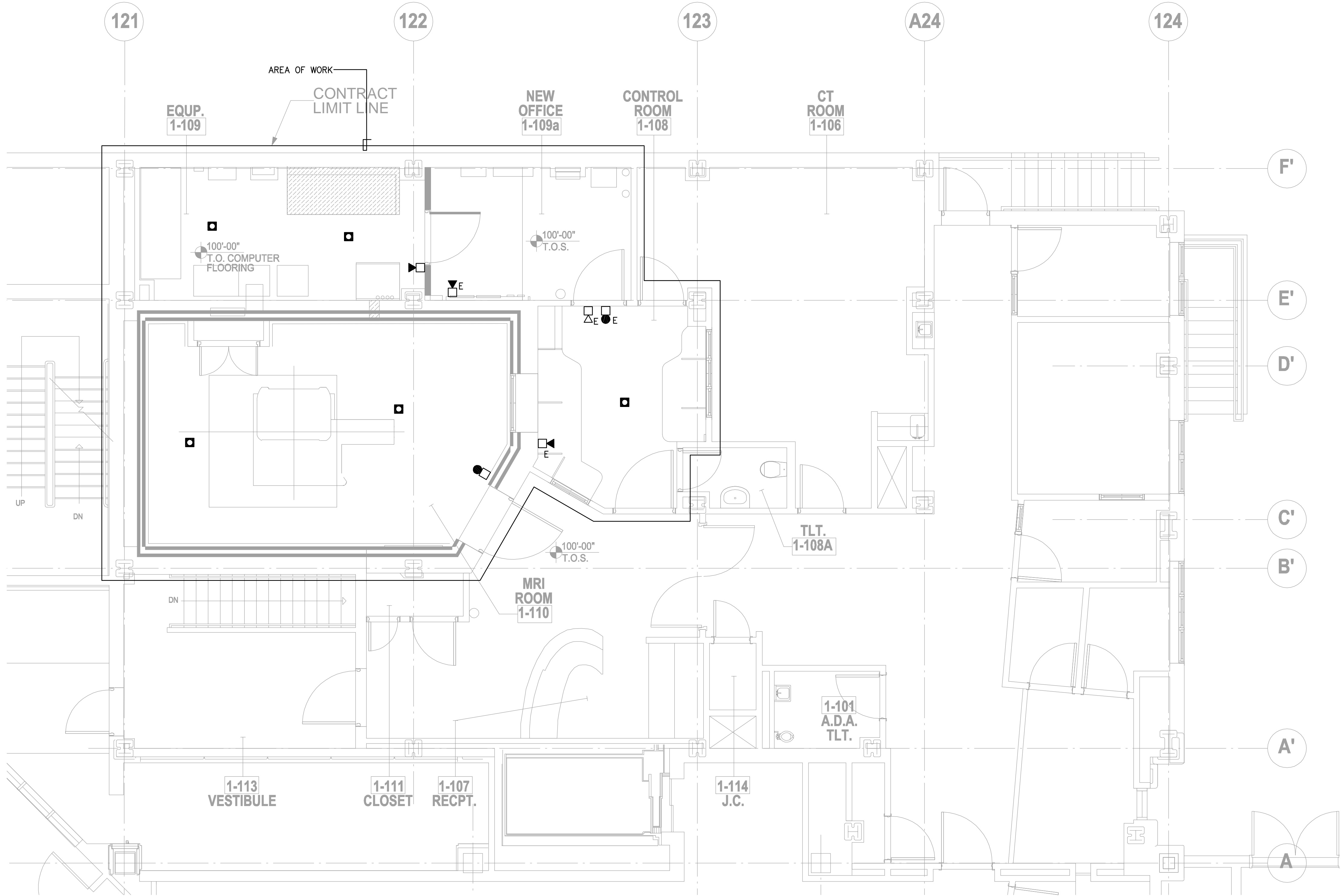
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NOTES:

1. ALL NEW FIRE ALARM SHALL MATCH EXISTING FIRE ALARM SYSTEM IN THE HOSPITAL.
2. ALL NEW FIRE ALARM DEVICES SHALL CONNECT TO EXISTING FIRE ALARM SYSTEM IN THE HOSPITAL.
3. ALL NEW FIRE ALARM DEVICES SHALL BE APPROVED TO BE USED IN NEW YORK CITY AND HOSPITAL ENVIRONMENT.

LEGEND:

- FIRE ALARM STROBE ONLY (MOUNT 80" AFF)
- FIRE ALARM SPEAKER/STROBE (MOUNT 80" AFF)
- FIRE ALARM SPEAKER ONLY
- AREA SMOKE DETECTOR
- E DENOTES EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

OWNER:



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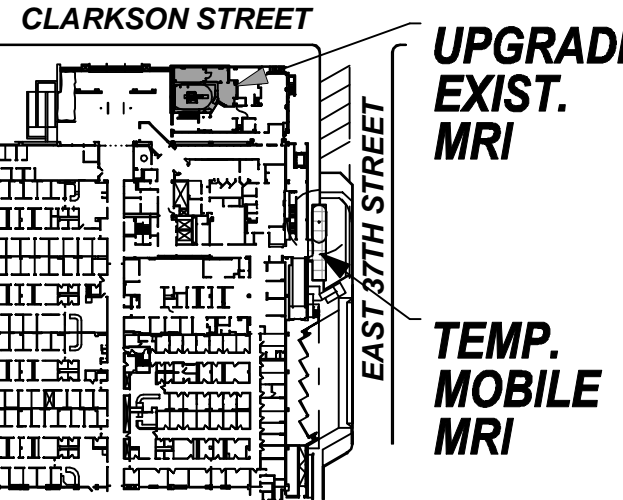
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SITE PLAN



ISSUES:

MARKS:	DATE:

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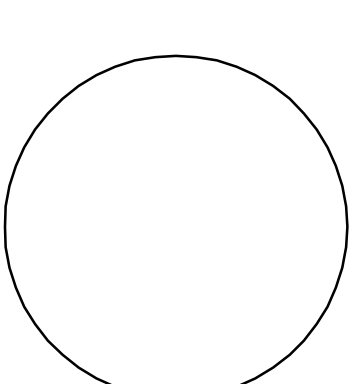
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**FIRE ALARM
FIRST FLOOR PLAN**

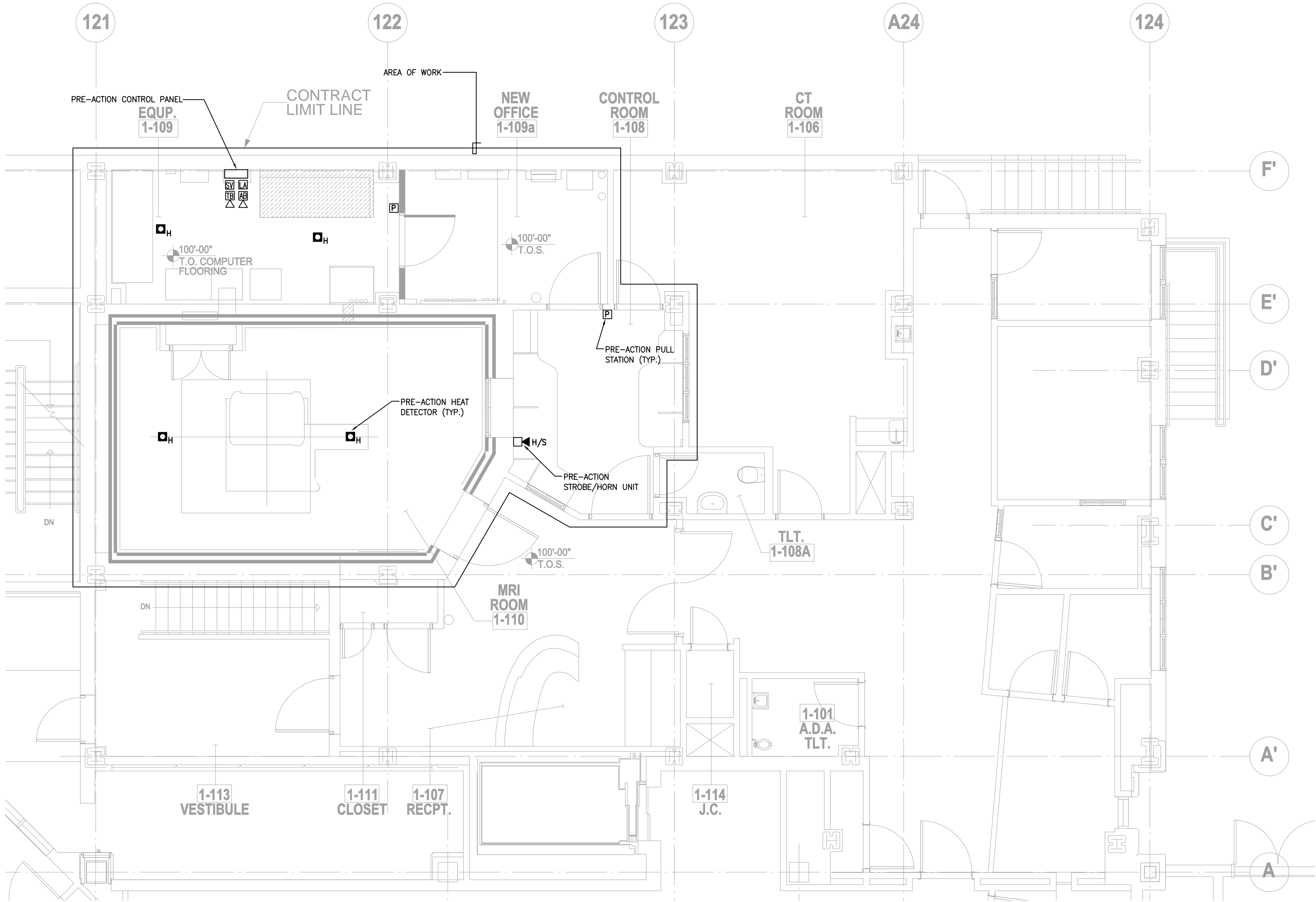
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- NOTES:
1. ALL PRE-ACTION DEVICES ARE NEW AND APPROVED TO BE USED IN NEW YORK CITY AND HOSPITAL ENVIRONMENT.
 2. PROVIDE (3) SIGNALS WIRING TO CONNECT TO HOSPITAL FIRE ALARM SYSTEM, SUPERVISING, TROUBLE AND ALARM.

- LEGEND:
- PRE-ACTION MANUAL PULL STATION
 - PRE-ACTION HORN/STROBE DEVICE
 - HEAT DETECTOR
 - TROUBLE BELL
 - ALARM BELL
 - SOLENOID VALVE
 - LOW AIR

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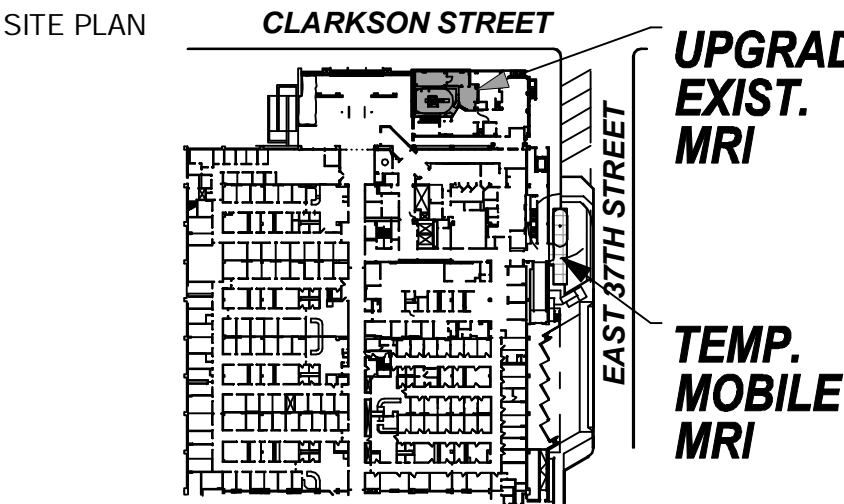
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ISSUES:	
MARKS:	DATE:

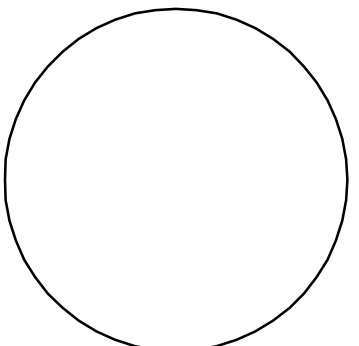
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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

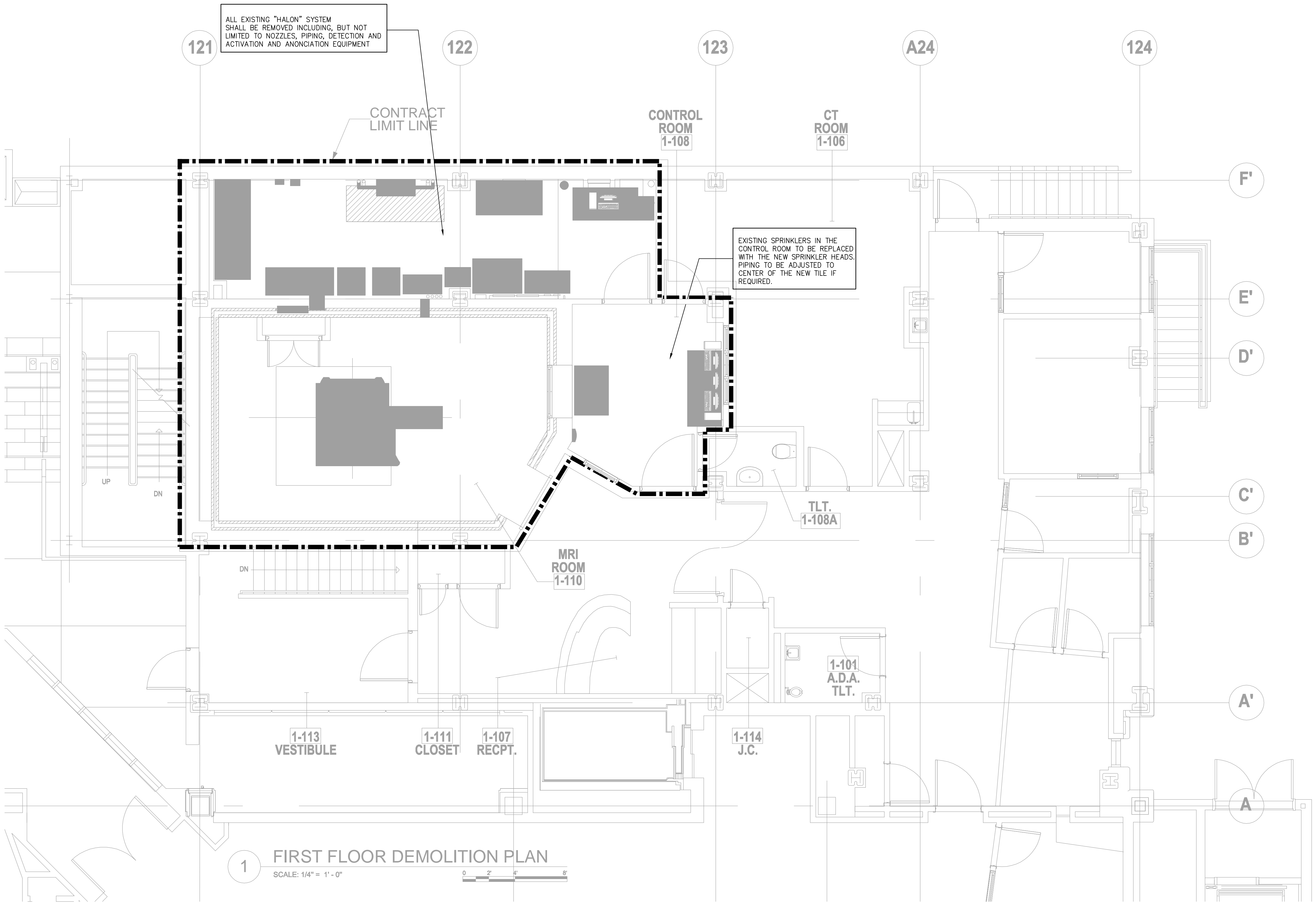
DRAWING TITLE

**PRE-ACTION
FIRST FLOOR PLAN**


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	SCALE:	1/4" = 1'-0"
	DRAWING NO.	FA-501.00
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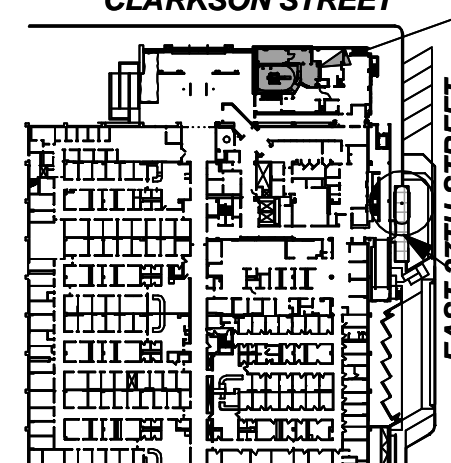
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SITE PLAN



CLARKSON STREET

EAST 37TH STREET

UPGRADE
EXIST.
MRI

TEMP.
MOBILE
MRI

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review	02.26.2010

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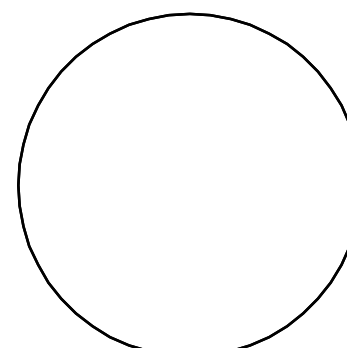
PROJECT TITLE

PHASE "2":
UPGRADING
EXISTING MRI

DRAWING TITLE

FIRST FLOOR
DEMOLITION PLAN

SEAL & SIGNATURE:



DATE: FEBRUARY 24, 2010

COS PROJECT NO. 4120-03

DRAWN:

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

DRAWING NO.

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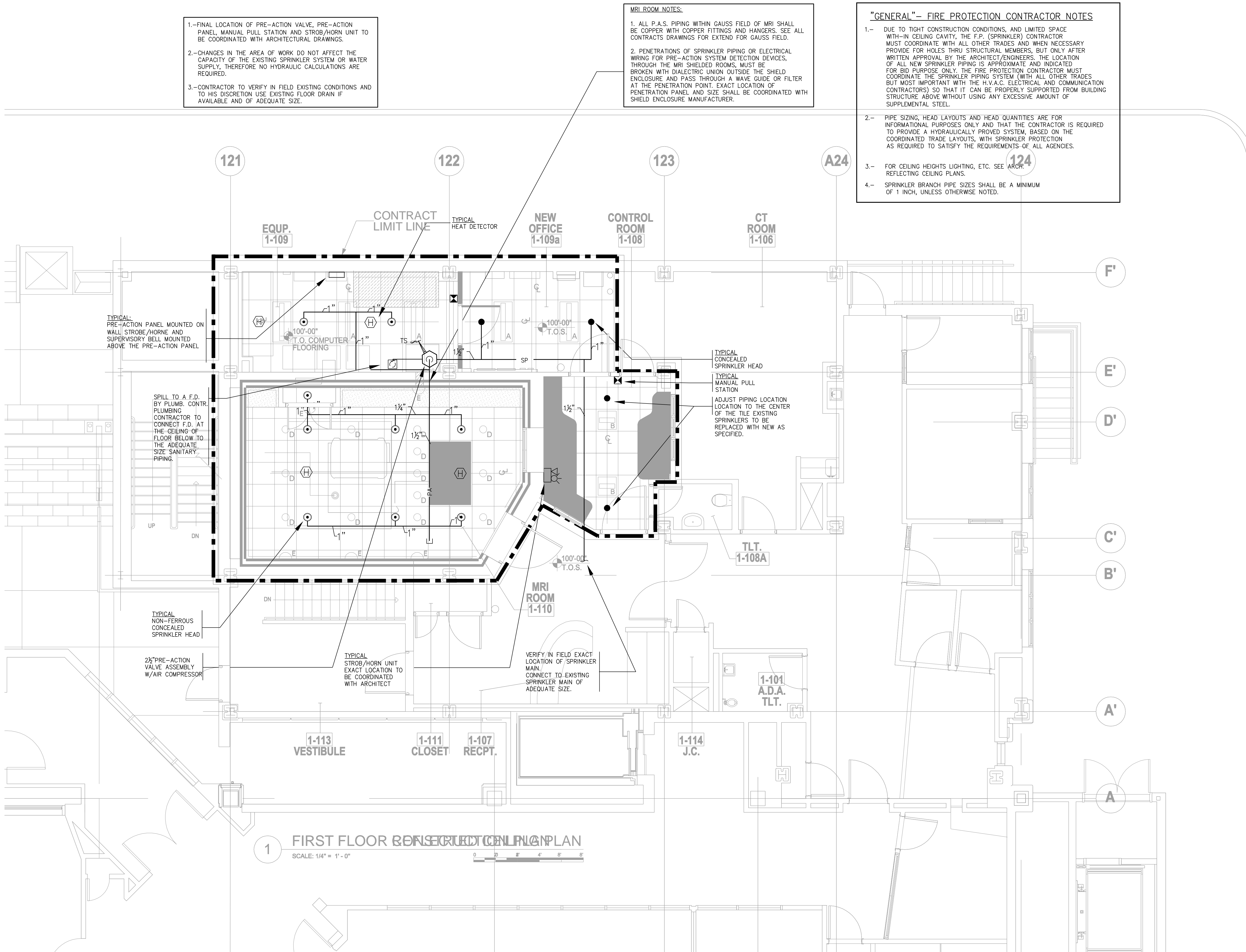
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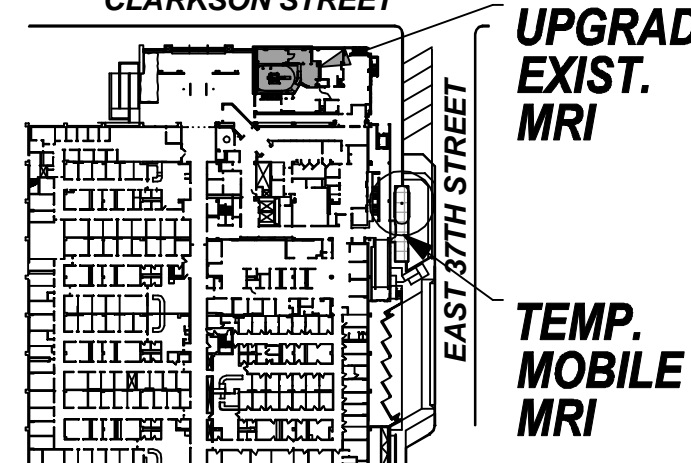
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SITE PLAN



ISSUES:

MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review	02.26.2010

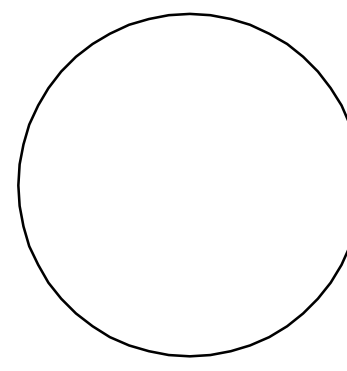
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**FIRST FLOOR
SPRINKLER PLAN**

SEAL & SIGNATURE:



DATE: FEBRUARY 24, 2010

COS PROJECT NO. 4120-03

DRAWN:

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

DRAWING NO.

SP-101.00

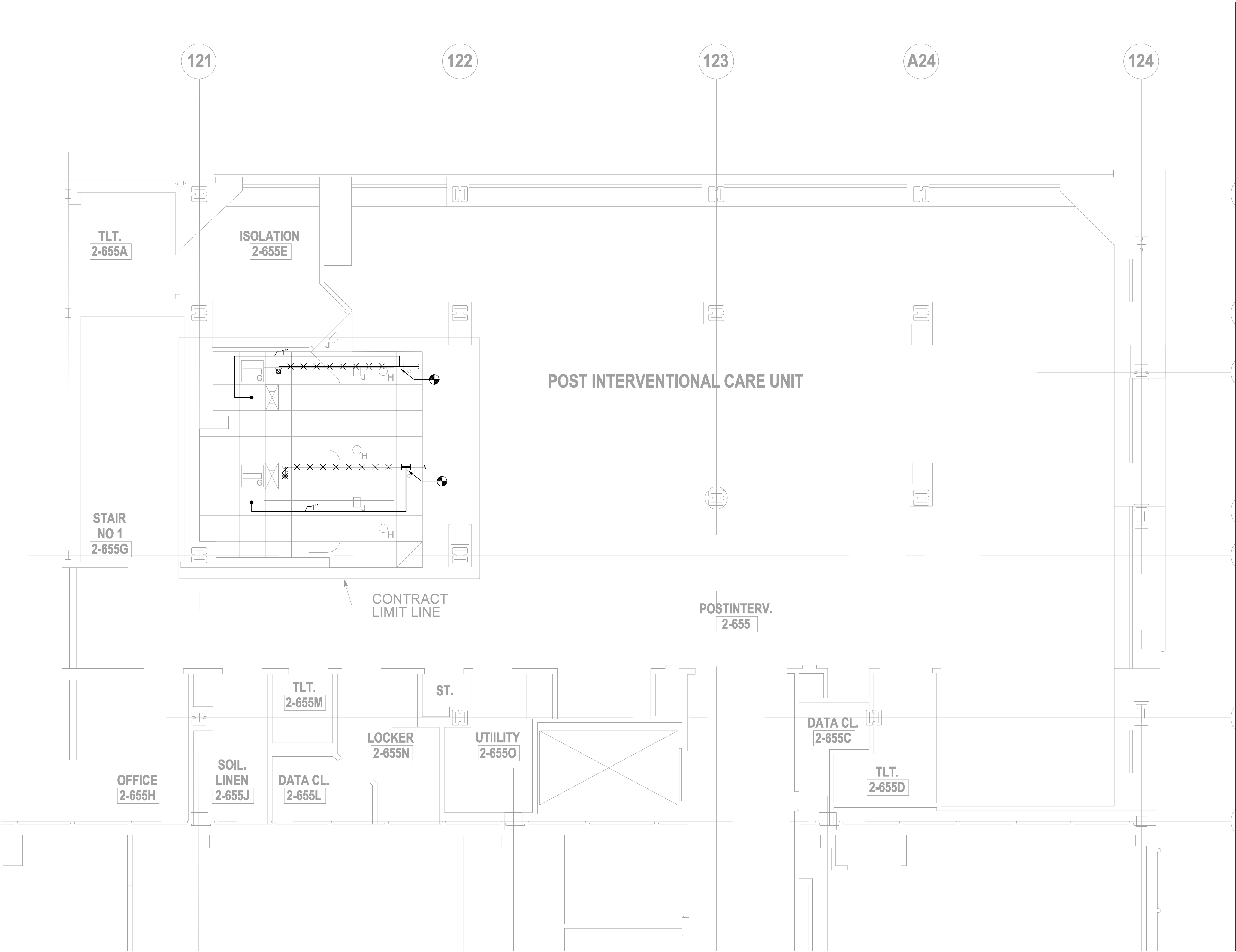
CAD FILE NO.

3 OF 7


PROGRESS SET:

12/10/12

FILE NAME I:\4120-03\SP\4120-03 SP-102.dwg SAVED ON 12/10/2012 2:34 PM PLOTTED ON 12/10/2012 4:52 PM PLOTTED BY CURIAT, POLINA



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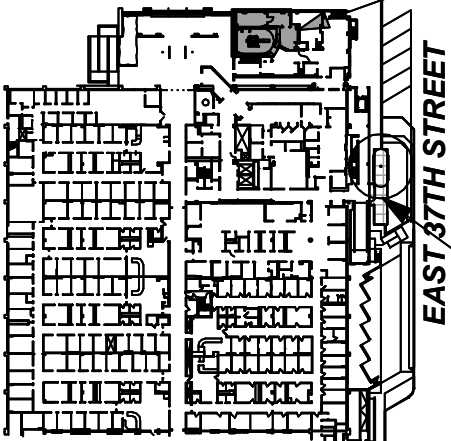
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SITE PLAN



CLARKSON STREET
EAST 37TH STREET
UPGRADE EXIST. MRI
TEMP. MOBILE MRI

ISSUES:

MARKS:	DATE:
Schematic	06.09.2009

WARNING:
It is a violation of the NY State Education Law for any person, unless acting under the direction of a licensed architect, to alter any term or these plans in any way. Any alterations to these plans are the responsibility of the person making the alterations and shall be made in accordance with Article 17, Section 61.5 of the NY State Education Law.

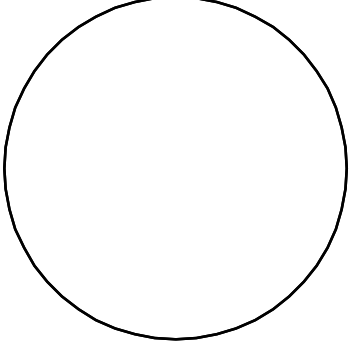
PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**SPRINKLER
SECOND FLOOR PLAN**

SEAL & SIGNATURE:



DATE:	FEBRUARY XX 2010
COS PROJECT NO.	4120-03
DRAWN:	
SCALE:	1/4"=1'-0"
DRAWING NO.	SP-102.00
CAD FILE NO.	4 OF 7

**PROGRESS SET:
12/10/12**

A - DELUGE VALVE
B - TRIM PIPING

VALVES & ACCESSORIES
(ITEMS 1 THRU 27)

1 CHECK VALVE

2 PRESSURE OPERATED RELIEF VALVE (P.O.R.V.)

3 MAGNETIC BY-PASS OR RELEASE CONTROL UNIT (SOLENOID VALVE)

4 LOW PRESSURE ALARM SWITCH (WIRING BY SPKR CONTR. TO ITEM #22)

5 EMERGENCY RELEASE UNITS(PULL STATIONS) PROVIDE AS MANY AS REQUIRED TO SATISFY SYSTEM DESIGN (WIRING BY SPKR. CONTR. TO ITEM #22)

6 CONTROL VALVE (O.S.&Y.) WITH TAMPER SWITCH (WIRING BY ELECTRICAL CONTRACTOR

7 ACCEPTABLE AIR SUPPLY FOR PRE-ACTION SYSTEM (PIPE MOUNTED OR REMOTELY LOCATED AIR COMPRESSOR) (WIRING BY ELECT. CONTR.)

8 ALARM LINE STRAINER (*)

9 DRIP CHECK

10 DRAIN CUP

11 CHECK VALVE

12 MAIN DRAIN VALVE

13 ALARM TEST VALVE

14 CHECK VALVE

15 PRIMING VALVE

16 STRAINER

17 RESTRICTED ORIFICE

18 FLOW TEST VALVE

19 RELEASE LINE

20 STRAINER(FURNISHED WITH THE MAGNETIC BY-PASS)

21 PRESSURE GAUGE

22 PRE-ACTION SYSTEM CONTROL PANEL (BY SPKR. CONTRACTOR)

23 PRESSURE SWITCH (PROVIDE AS MANY AS REQUIRED TO SATISFY SYSTEM DESIGN)

24 EMERGENCY BATTERY PACK IN CABINET MOUNTED ON WALL (CAN BE PART OF ITEM #22) (BY SPKR CONTR.)

25 SMOKE DETECTORS(QUANTITY & LOCATION TO SATISFY SYSTEM DESIGN BASED ON NFPA-72E REQUIREMENTS

26 SPRINKLER HEADS(TYPE, QUANTITY AND LOCATION TO SATISFY SYSTEM DESIGN)

27 AIR PRESSURE REGULATORS

PRE-ACTION SYSTEM REQUIRED COMPONENTS

NONE

NOTES:

1. REFER TO FLOOR PLANS FOR LOCATION OF PRE-ACTION SYSTEMS.

2. REFER TO FLOOR PLANS FOR VALVE ASSEMBLY SIZING

3. ALL PIPING EQUIPMENT AND WIRING SHALL BE BY THE SPRINKLER CONTRACTOR UNLESS OTHERWISE NOTED.

4. COMPLETE PRE-ACTION SYSTEM ELECTRICAL SUPPLY, ALARMS AND TROUBLE SYSTEM TO BE PROVIDED WITH EMERGENCY ELECTRICAL SERVICE.

a. EMERGENCY ELECTRICAL SERVICE TO BE PROVIDED BY ELECT. CONTR.

PRE-ACTION SYSTEM ASSEMBLY DETAIL
NOT TO SCALE

LEGEND

1	ANGLE VALVE
2	GLOBE, BALL OR 3-WAY VALVE
3	CHECK VALVE(FLOW)
4	RESTRICTED ORIFICE
5	STRAINER
6	FILL CUP
7	DRIP CHECK VALVE
8	P.A. PRE-ACTION
9	DETECTOR
10	F.P. FIRE PROTECTION
11	F.A. FIRE ALARM
12	EQUIPMENT IDENTIFICATION
13	DRAIN
14	FLOW TEST VALVE
15	PRIMING VALVE
16	VALVE

NOTES

- PRE-ACTION SYSTEM IS BASED ON NYC B.D. & F.D. REQUIREMENTS
- ONE SINGLE DETECTOR OR PULL STATION WILL ARM SYSTEM PIPING WITH WATER.
- FUSING OF CLOSED TYPE SPKR. HD'S WILL DELIVER WATER TO FIRE SITUATION AFTER SYSTEM IS ARMED.

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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**SPRINKLER
PRE-ACTION
DETAILS**

SEAL & SIGNATURE:

DATE: FEBRUARY 24, 2010

COS PROJECT NO. 4120-03

DRAWN:

SCALE: N.T.S.

DRAWING NO.

SP-401.00

CAD FILE NO.

5 OF 7

PROGRESS SET:

12/10/12

FILE NAME I:\4120-03\SP\4120-03 SP402.dwg SAVED ON 12/10/2012 2:43 PM PLOTTED ON 12/10/2012 4:52 PM PLOTTED BY CORIAT, POLINA

PRE-ACTION SYSTEM NOTES	
1. Each pre-action system shall be separate and complete and ready for operation as an approved type system.	
2. All system equipment, and accessory parts, shall be manufactured by one manufacturer. The pre-action system shall be as manufactured by "VICTAULIC" or approved equal.	
3. The sprinkler contractor shall be responsible for providing a complete and approved type installation as indicated on drawings, "Pre-action System Assembly Detail" and specifications, and manufacturer's installation recommendations. Sprinkler contractor must provide all electrical and mechanical components, equipment, accessories, pressure switches, detectors, panel, etc.	
4. Sprinkler contractor shall coordinate all electrical requirements with electrical contractor and shall be responsible to receive correct interface of his equipment with electrical service.	
5. Pre-action system electrical system shall be connected to base building system emergency power.	
6. Pre-action system valve assembly and all components shall be installed at an elevation above the finished floor that will allow for easy service and operation. Mounting heights of devices shall be as follows, unless otherwise noted on the drawings: a. Valve assembly – not above 6'-6" A.F.F. b. Control panel – 6'-0" to the top A.F.F. c. Pull stations, and other switches – center line 48" A.F.F. d. Alarms – top of device 6" below ceiling line	10. The following shall be provided by electrical contractor. Sprinkler contractor to coordinate: a. A.C. power to be taken from line side of local floor panel with battery backup on constant trickle charge provided in control unit. b. Interconnection to building fire alarm system shall be coordinated with building engineer and/or vendor of building system. c. No conduit or wire may enter top of control panel. d. Electrical connections and installation of electrical devices for entire system to be by electrical contractor. e. Feed to panel to be 120 VAC, 60 HZ., single phase through an approved, lockable fuse cutout with a solid copper neutral. Fuse cutout shall be painted fire department red and permanently and properly labeled. f. Electrical contractor to file required documents and forms for his portion of work, with the Authorities having jurisdiction. g. Activation of a single detector shall cause notification to building fire alarm panel. h. All wiring shall be type THHR or THWN in rigid threaded conduit in strict compliance with all codes of authorities having jurisdiction. i. All field device wiring shall be series parallel loop. No parallel branching (tee tapping) is permitted.
7. Sprinkler contractor shall coordinate with the plumbing contractor for location and installation of funnel or floor drains for proper drainage and testing of pre-action valve assembly.	11. Sprinkler contractor shall provide and submit the following for approval prior to fabrication and installation. The submittal should be complete with all required and necessary components. a. Manufacturers cuts of manual pull stations, alarms, horn and combination bell/strobe lights and signs for designated zone areas. b. Manufacturers cuts of tamper switch for O.S.&Y. control valve and air compressor. c. Piping and equipment details of pre-action system, with all required accessories numbered and identified. d. Pre-action system wiring diagram and detection system wiring and type of approved wiring material and type installation. e. Additional dry contacts within control panel and/or additional pressure switches (number and identify) to operate all required alarms, bells, horns, lights, shut down of equipment of other trades as required. f. Shop drawings shall be submitted and shall include complete information necessary for the installation of the complete system. (1) Detailed 1/8 to 1/4 inch scale (minimum size) drawings and pre-action valve assembly details conforming to NFPA No. 13 shall be prepared by an accredited fire protection (sprinkler) installation company, and shall be submitted for approval prior to fabrication. Drawings and catalog cuts shall be submitted in a complete set for the entire area; partial submission will not be acceptable. (2) A complete electrical system (one-line) drawing and details indicating all electrical components and equipment requiring high and low voltage electrical systems and alarm systems. (3) A complete layout of detection system components indicating location of detectors and wiring for same. (4) A complete layout of Detector spaced in accordance with NFPA requirements, manual pull stations and wiring for same, indicating horizontal and vertical locations. (5) Hydraulic calculations for each area. (6) All equipment to have (FM when required/U.L. approvals) control panels and devices.
8. All pre-action system piping shall pitch back to valve assembly (for proper drainage) in accordance with NFPA #13 Rules and Regulations.	
9. Sprinkler contractor shall coordinate with electrical contractor for interface of pre-action system equipment and available electric service and shall provide and install the following: a. A separate fuse cut-out box with solid (removable) copper bar for each pre-action sub-system, and label as such. b. A separate pressure switch (water flow) for each pre-action sub-system with individual connection and read-out and alarm at the building Fire Alarm Panel system. NOTE: Actuation of pressure switch (water flow) shall perform all required functions. c. Separate manual pull stations as indicated on the drawings and for each remotely located room. d. Means of testing water flow switches for each pre-action sub-system. e. A means of testing detector for each pre-action sub-system. f. Trouble condition(s) and interconnect to building Fire Alarm Panel system for pre-action control. g. Means of shutting down A/C unit supplying air to protected area and all equipment within the protected area, upon actuation of any device controlling the pre-action system. h. A separate #10 green ground wire from building main water line or building steel for each pre-action sub-system control. i. Label all spare wires in pre-action sub-system control panel. j. Interface each pre-action sub-system to the building Fire Alarm Panel system. k. Number, spacing and location of smoke detectors, pull stations and abort switches required shall be in strict accordance with NFPA-72E, and local authority having jurisdiction. The ceiling configuration and on air movement shall be taken into consideration.	12. The sprinkler contractor is responsible for providing all work and material necessary to provide a complete and approved pre-action type system, acceptable to all authorities having jurisdiction. 13. Arrange for a fire department inspection and test of the pre-action sub-systems by submitting a written request therefore. 14. Final approval of sprinkler contractors shop drawings are subject to compliance with the above notes.

PRE-ACTION SPRINKLER SYSTEMS DESCRIPTION AND SEQUENCE OF OPERATION	
1. <u>SYSTEM DESCRIPTION</u> A. The single interlock pre-action system utilizes a deluge valve which is tripped by the actuation of a solenoid valve from the operation of the detection system. This puts water in the system piping prior to fusing of the sprinklers, thereby permitting a more rapid fire attack. The system piping is pressurized with air for supervisory purposes. If the system piping or a sprinkler heads is broken, the pressure will be reduced and an alarm will sound. B. Pre-action water supply control valve is provided with a tamper switch to supervise the systems water supply.	
2. <u>GENERAL SYSTEM OPERATION</u> A. Water pressure is maintained in the top chamber of deluge valve by passing through a small check valve and restricted orifice. System piping is pressured with air so alarm will sound if a sprinkler head opens or piping is damaged, but no water will flow. When detectors are operated, the solenoid valve in the magnetic bypass or release control unit vents the top chamber of deluge valve faster than water can be replaced through restricted orifice which causes it to open and operate alarm system. If a sprinkler head fuses or the sprinkler piping is damaged, the air pressure is lowered (within the system) which activates a pressure switch causing a low air pressure alarm, but no water will flow. B. When a combination of two (2) "cross-zoned" detectors operates within the affected area and the system is armed with water, and the temperature at the sprinkler heads reaches their fusing point (normally 165°F) water will flow to suppress a fire.	
3. <u>ACTUAL SYSTEM OPERATION</u> A. The system shall function as follows when any single detector operates within the protected area. 1. Trouble light will indicate on control panel at pre-action valve and designated area. 2. Alarm bells with strobe unit and horn unit will sound within the affected area and designated areas. 3. Sound combination bell/light, and horn unit on control panel at pre-action valve and designated office area indicating fire situation. 4. Initiate signal to the building fire alarm system panel. (Coordinate contact closure requirements). B. Subsequent operation of a "cross-zoned" detector with the affected area shall: 1. Sound combination horn/light, on control panel at pre-action valve and designated office areas indicating for situation. 2. Silence alarm bells. 3. Initiate record zone signal to the building fire alarm system panel to automatically notify the Fire Department. 4. Actuate circuits to operate fire safety system, opening of exist doors, etc. 5. Shut down all equipment, including computers and A.C. units, etc., unless otherwise noted within affected areas. 6. Actuate pre-action sprinkler valve. 7. Activate output alarm contact. 8. With detectors in operation within the affected area and the sprinkler heads fused, water will be discharging to suppress a fire.	
<u>NOTES</u> 1. Common trouble alarm shall initiate signal to building (Class "E") system and designated office area. 2. Activation of pre-action manual pull station system shall perform functions under item 'B' above 2 through 8.	

PRE-ACTION SPRINKLER SYSTEMS SINGLE INTERLOCK TYPE WITH ELECTRICAL RELEASE	
1. <u>GENERAL</u> A. Provide approved type automatic sprinkler pre-action systems consisting of closed sprinkler heads properly spaced to cover the areas protected including electrically operated deluge valves actuated by properly spaced electric smoke type detector heads, and manual break-glass releases. Primary electric power source shall be 120 Volt A.C. current with transformation and rectification to 24 Volt D.C. for system operation. Provide all electric work from 120 Volt power source, and emergency power source. Secondary power source shall be provided by means of 24 Volt storage batteries and battery charger. Provide the source of automatically maintained low air pressure. System shall be in full accordance with the requirements of the all Authorities having jurisdiction, and National Fire Protection Association and shall be Underwriters Laboratory listed, and FM approved when required. Automatic pre-action sprinkler systems shall be provided for areas indicated on drawings. B. The complete pre-action sub-system shall be fabricated and installed by a reliable contractor with a minimum of ten (10) years experience specializing in the installation of Fire Protection Systems. C. <u>SYSTEM CHECKOUT, OWNER TRAINING AND ACCEPTANCE</u> Upon completion of installation, a meeting shall be held at the job site with the sprinkler contractor and all other contractors, involved with the installation of the systems equipment suppliers and owner personnel present. The contractor shall familiarize the owner, personnel with system components, system functions and recommended procedures. At this time a functional test of system will be demonstrated, including a discharge test. Such test is necessary to demonstrate ability of the system to operate properly. The contractor shall provide the necessary personnel and instruments to conduct this test. The contractor will provide the owner with a system check list which owner will sign as acceptance of the system. The contractor will provide the owner with a complete operational and maintenance manual as well as a written summary of any functional test conducted. The contractor shall be capable of conducting semi-annual system inspections and be equipped to recondition the complete system within 24 hours in the event of a system actuation. D. PRE-ACTION SYSTEM OPERATION AND BASIC COMPONENTS AS FOLLOWS: 1. Check valve on discharge side of deluge valve to retain supervisory air pressure. 2. Electrically operated deluge valve to withhold release of water in system. 3. External reset provision to facilitate testing of deluge valve. 4. Electric releases to retain or release clapper in deluge valve. 5. Release control panel to supervise and control release mechanism. 6. End-line resistors to regulate supervisory current in detector units. 7. Trouble signal and bell signal circuit faults. 8. Power supply panels to provide primary power supply (and emergency power supply)to release mechanism. 9. Storage battery units to provide secondary source of power supply. 10. Tamper switches to supervise O.S.&Y. control valves, controlling water supply to deluge valve. 11. Smoke detector heads as required Detector to initiate operation of release control panels. 12. Emergency break glass stations for manual provisions for operating release control panels. 13. Electric alarm switches to operate electric alarms upon water flow. 14. Supervisory air supply, self-contained, with air compressor panel, air compressor, check valve, pressure gauge, tubing, audible and visual alarm, silence switch, O.S.&Y. monitor switch. 15. Air maintenance device with valve, filter, regulator, low pressure alarm, pressure gauge, check valve. 16. Bells with strobe unit, and horn units.	

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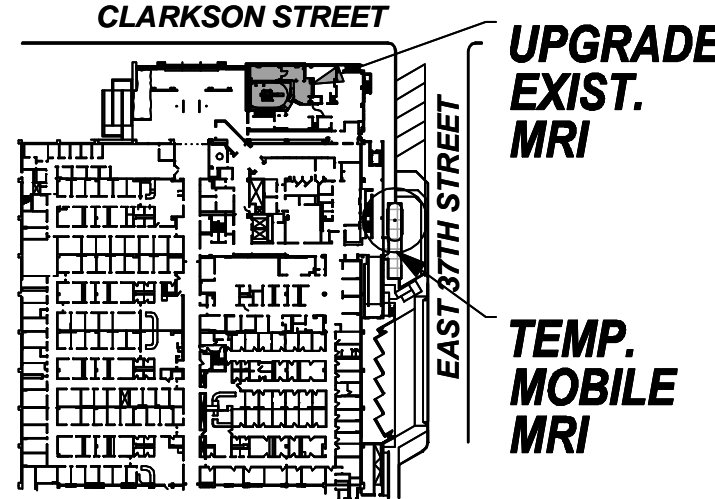
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SITE PLAN



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PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

**SPRINKLER
NOTES**

	SEAL & SIGNATURE:	DATE: FEBRUARY 24, 2010
		COS PROJECT NO. 4120-03
		DRAWN:
		SCALE: N.T.S.
		DRAWING NO. SP-402.00
		CAD FILE NO. 6 OF 7

**PROGRESS SET:
12/10/12**

ABBREVIATIONS:
N.R.S.— NON-RISE STEM
AWWA— AMERICAN WATER WORKS ASSOCIATIONS
BS&A— N.Y.C. BOARD OF STANDARDS AND APPEALS
MEA— N.Y.C. MATERIAL AND ACCEPTANCE DIVISION

●FIRE PROTECTION		MATERIAL SCHEDULE																	
SYSTEM		PIPE								FITTINGS				JOINTS					
	REQUIRED	TYPE "K" OR "L" COPPER TUBING	CAST IRON W/IR PIPE	STEEL SCHD 10	STEEL SCHD 30	STEEL SCHD 40	STEEL SCHD 60	BLACK STEEL SCHD 60	GALVANIZED PIPE	CAST IRON CLASS D	LINED	GALVANIZED	DUCTILE IRON	WROUGHT COPPER	THREADS	MECH-JOINT-FLANGED	MECH-JOINT-FLG (6 FT GRD)	CALULVED	BRAZED
NOTES:																			
1. FOR REQUIRED PRESSURE RATINGS, SEE RISER DIAGRAM.																			
2. ALL MATERIALS SELECTED ON THIS SCHEDULE MUST BE APPROVED BY THE LOCAL AUTHORITIES.																			
3. TO BE USED DOWNSTREAM OF SPRINKLER FLOOR CONTROL VALVE.																			
4. TO BE USED ON RISERS, MAINS, AND SPRINKLER BRANCH PIPING UP TO 2".																			
5. COPPER TUBING TO BE USED FOR MRI AREAS FOR SPRINKLER SYSTEMS ONLY.																			
SPRINKLER	(SEE NOTES 3 & 5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SPRINKLER	(SEE NOTES 4 & 5)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SPRINKLER DRAIN PIPE & PREACTION SPRINKLER PIPE		●		●											●				

SCHEDULE 40 PIPE – VICTAULIC COUPLING & FITTING SCHEDULE																					SEE NOTES								
SPECIFICATIONS																			SERVICE & LOCATION										
	VICTAULIC FTG. No.	SIZE	TYPE	GROOVED	HOLE OUT	P/T	FLAN END	W/S RING	150WMP	175WMP	200WMP	250WMP	300WMP	350WMP	400WMP	NOTE A FLANGE & D	500WMP	NOTE B & C	600WMP	700WMP	720WMP	REFER TO GENERAL NOTE #1	REQUIRED	SPKR SYSTEM FSP	IN-COMING SERVICE	RISE/RS	HORIZONTAL RUN	SEISMIC REQUIREMENTS	EXPANSION JOINTS
C O U P L I N G S	07 ZERO-FLEX	1"–4"	RIGID	•																									
	07 ZERO-FLEX	5"–6"	RIGID	•																									
	07 ZERO-FLEX	8"	RIGID	•																									
	07 ZERO-FLEX	10"	RIGID	•																									
	07 ZERO-FLEX	12"	RIGID	•																									
	07 ZERO-FLEX	14"–20"	RIGID	•																									
	005 FIRELOCK	2"–6"	RIGID	•																									
	HP-70	2"–8"	RIGID	•																									
	HP-70	10"–12"	RIGID	•																									
	77	3/4"–6"	FLEXIBLE	•																									
	77	8"–12"	FLEXIBLE	•																									
	77	14"–22"	FLEXIBLE	•																									
	75	1 1/2"–4"	FLEXIBLE	•																									
	75	4 1/2"–8"	FLEXIBLE	•																									
	741	2"–12"	VIC-FLANGE ADAPTER	•																									
	743	2"–12"	VIC-FLANGE ADAPTER	•																									
	791	2"–4"	BOLTLESS	•																									
791	6"	BOLTLESS	•																										
791	8"	BOLTLESS	•																										
750	–	REDUCING	•																										
72	–	OUTLET UL/FM APPROVED SIZE & PRESSURE	•																										
TEST & DRAIN	718	1 1/4"	THREADED ENDS	•																									
F I T T I N G S	–	–	–																										
	10, 11, 12, 13	–	ELBOWS																										
	50, 52	–	REDUCERS																										
	20	–	TEES																										
	25, 29	–	REDUCING TEES																										
	85	–	CROSS																										
	920	–	MECH TEE SIZE & PRESSURE UL LISTED/MEA APPROVED																										
	921	–	MECH TEE	•																									
	27	–	STANDPIPE VALVE TEE																										

NOTES:

'A' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 350 PSI WWP

'B' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 400 PSI WWP

'C' 77 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WWP

'D' 75 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WWP

GENERAL NOTE:
1. FITTINGS AND PRESSURE RATINGS ARE UL LISTED AND MEA APPROVED

SCHEDULE OF SPRINKLER HEADS										
SYMBOL	MANUFACTURER & MODEL No.	TYPE	LOCATION	FINISH & REMARKS	TEMP. RATING	'K' FACTOR	SP. HD. COVERAGE	MIN. FLOW	MIN. PRESS.	APPROVALS
●	RELIABLE MODEL G5--56	CONCEALED PENDENT SPRINKLER QUICK RESPONSE	OFFICE AREA, CONTROL ROOM	PLAIN COVER, FINISH AS PER ARCHITECT	165°F SEE NOTE #1 AND #3	5.62	---	NOTE #4	NOTE #4	
⊙	RELIABLE MODEL F4FR-NF	RECESSED PENDENT QUICK RESPONSE	IN NMR AND MRI ROOMS WITH HUNG OR GYPSUM CEILINGS.	FINISH AS PER ARCHITECT	135°F	5.6	---	NOTE #4	NOTE #4	NYC MEA 258-93-E

NOTES:

1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

2. PROVIDE LISTED METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER HVAC DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" A.F.F.

3. ALL SPRINKLER HEADS THROUGHOUT THE FACILITY SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:

a. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, STEAM PIPING, LOW-PRESSURE BLOW-OFF VALVE OR WHERE INDICATED ON THE DRAWINGS SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA 13.

b. SPRINKLER HEADS LOCATED IN AUTO-CLAVE ROOMS, CAGEWASH ROOMS OR WHERE INDICATED ON THE DRAWINGS SHALL BE OF THE INTERMEDIATE TEMPERATURE RATING AND HAVE WAX OVER LEAD COATING.

c. ALL SPRINKLERS LOCATED CLOSE TO RADIANT PANELS SHALL BE OF TEMPERATURE RATING ABOVE 180°F.

4. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

4. SPRINKLER HEADS MINIMUM FLOW & MINIMUM PRESSURE REQUIREMENTS TO BE BASED ON HYDRAULIC CALCULATION DESIGN DENSITIES.

5. ALL SPRINKLER HEAD FINISHES TO BE APPROVED BY ARCHITECT.

6. IN MRI, LINAC AREAS SPRINKLER HEADS MUST NOT CONTAIN FERROUS MATERIALS. ESCUTCHEONS MUST BE MADE OF NON COMBUSTIBLE, NON FERROUS MATERIALS.



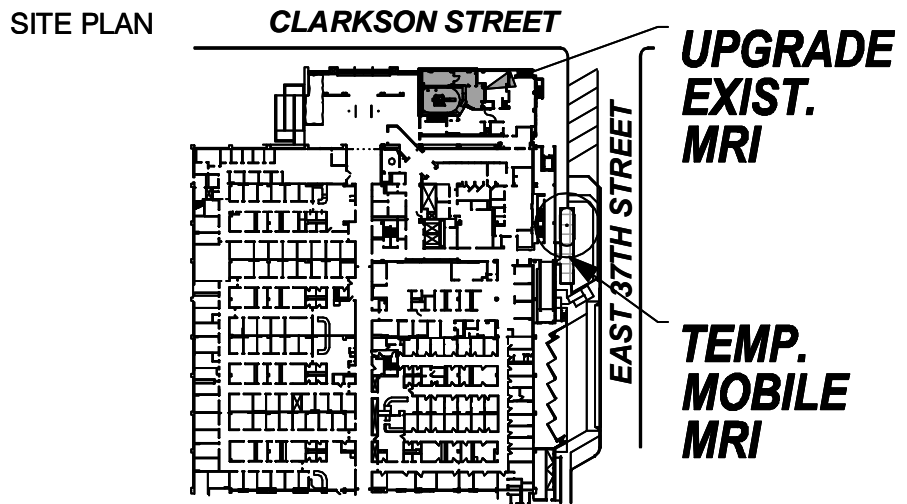
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ISSUES:	
MARKS:	DATE:
Schematic	06.09.2009
CON Submission	07.02.2009
Issued for Review	10.29.2009
Issued for Review	02.26.2010


WARNING:
It is a violation of the NY State Education Law for any person, unless acting under the direction of a licensed architect, to alter any item on these plans in any way. If alterations to these plans are made, the alterations shall be made in accordance with Article 147, Section 69.5 of the NY State Education Law.

PROJECT TITLE

**PHASE "2":
UPGRADING
EXISTING MRI**

DRAWING TITLE

SPRINKLER SCHEDULES

	SEAL & SIGNATURE:	DATE: FEBRUARY 24, 2010
		COS PROJECT NO. 4120-03
		DRAWN:
		SCALE: N.T.S.
		DRAWING NO.
		SP-501.00
	CAD FILE NO.	3 OF 7

PROGRESS SET:
12/10/12