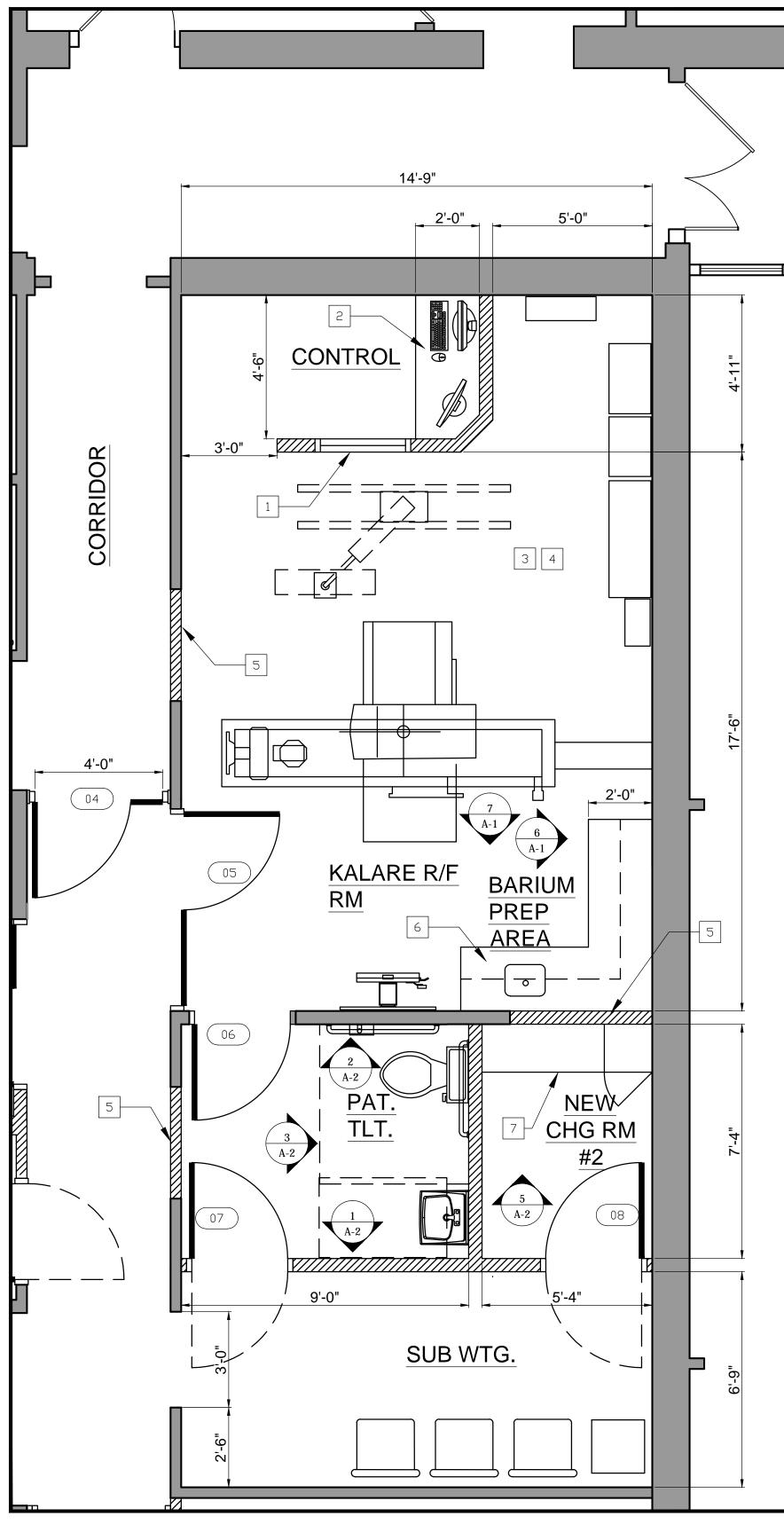


DEMOLITION NOTES:

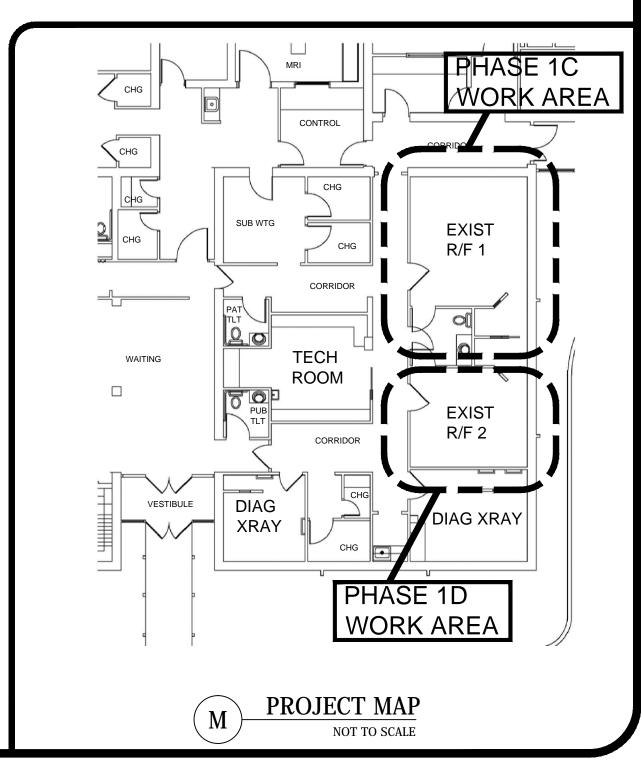
- (1.) REMOVE EXISTING COUNTER & SINK, CAP PIPING.
- REMOVE EXISTING TOILET, CAP ALL PIPING.
- REMOVE EXISTING PARTITION.
- REMOVE EXISTING CONTROL WINDOW.
- REMOVE EXISTING FLOORING.
- PROVIDE NEW OPENING.
- REMOVE EXISTING DOOR & FRAME
- EXISTING XRAY EQUIPMENT TO BE REMOVED BY OTHERS.



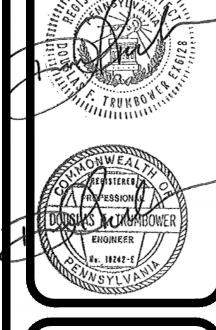
NEW FLOOR PLAN Scale: 3/8" = 1'-0"

CONSTRUCTION NOTES:

- 1. NEW SHIELDED CONTROL WINDOW.
- 2. NEW MILLWORK, CONTROL COUNTER.
- 3. NEW FLOORING & BASE.
- 4. NEW PAINT ALL WALLS.
- 5. INFILL OPENING WITH FINISHES TO MATCH EXISTING.
- 6. NEW MILLWORK, COUNTER W/ SINK.
- 7. NEW MILLWORK, BENCH WITH (2) O/U LOCKERS.

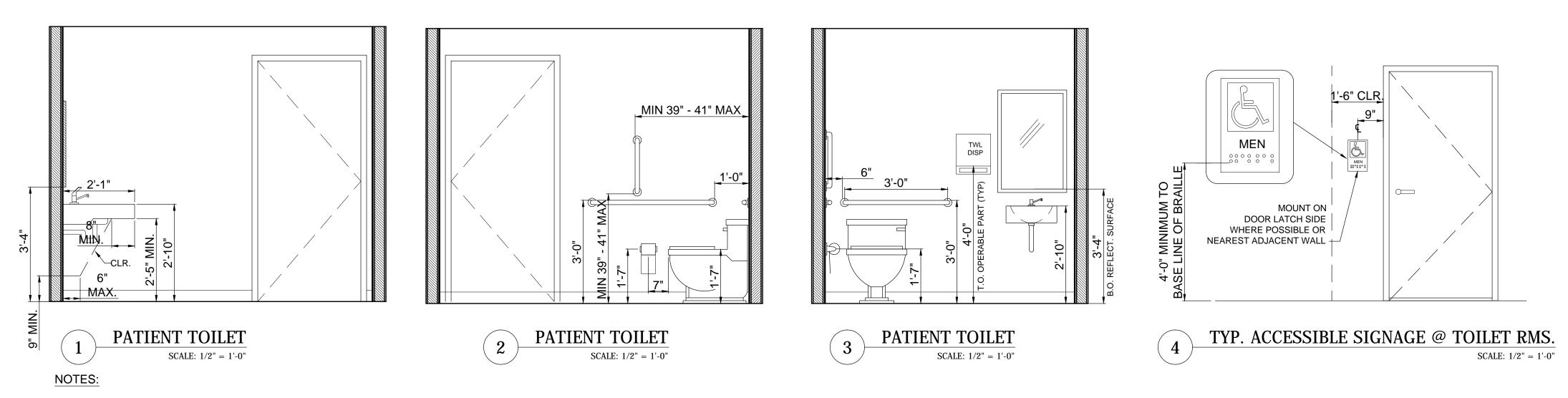






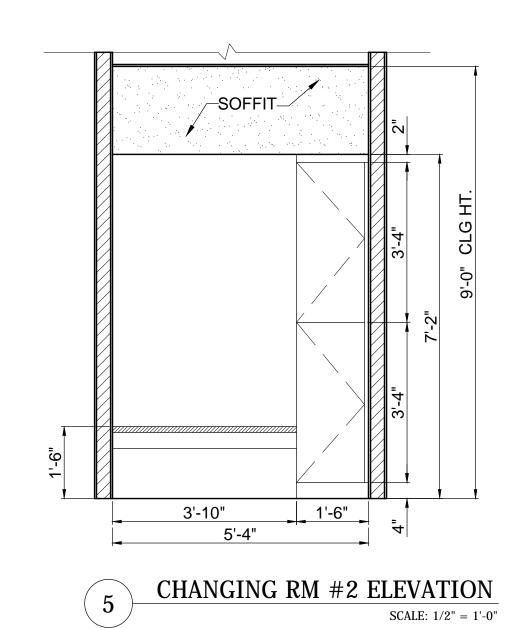
K.P.W. D.F.T. Start Date 10/01/2013 AS NOTED 13-5455

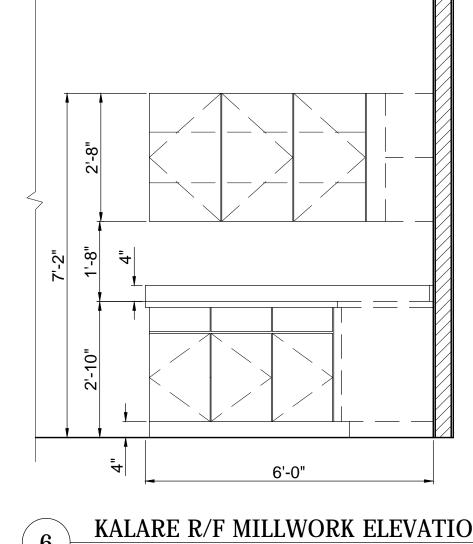
PHASE 1C PHASE 1D

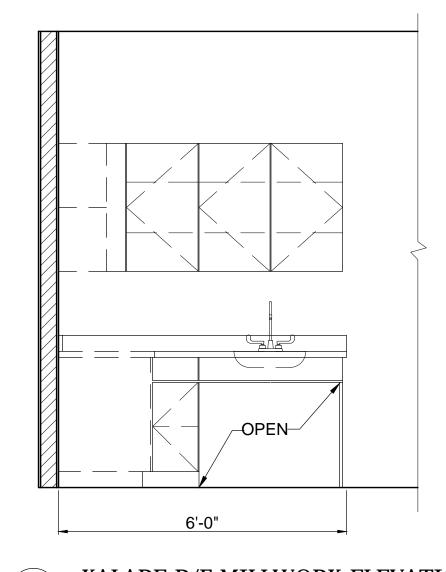


- 1. ALL ADA GRAB BAR MOUNTING HTS. AND CLEARANCES SHALL BE MEASURED
- TO THE OUTSIDE OF THE BAR NOT TO THE CENTERLINE.

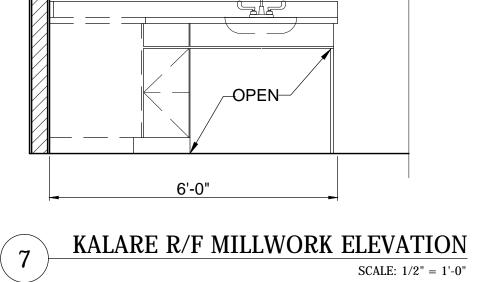
 2. MIRROR HT. ABOVE FIN FLR TO BOTTOM OF REFLECTIVE SURFACE.

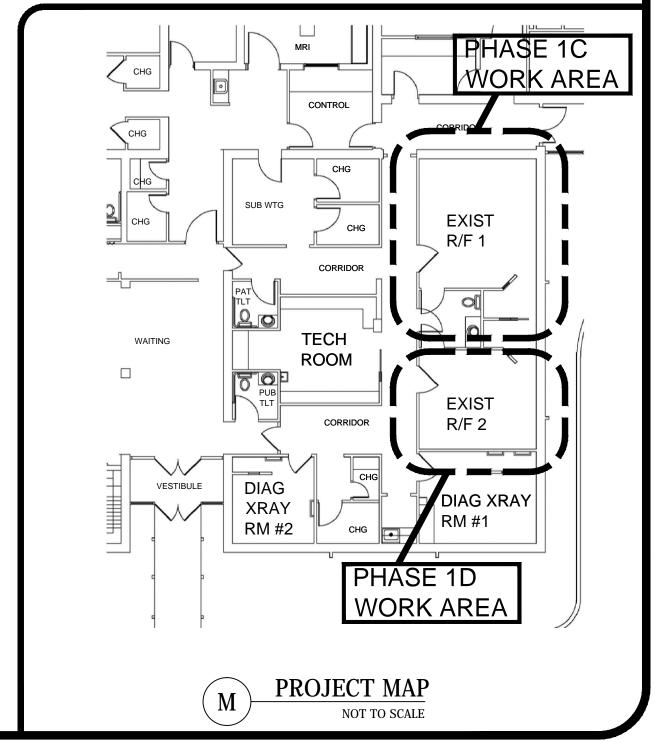


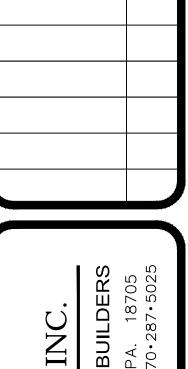






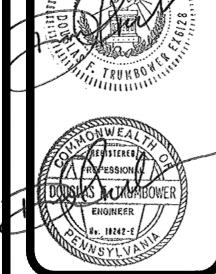


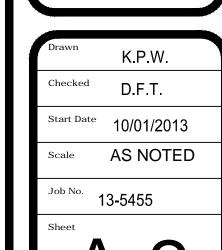


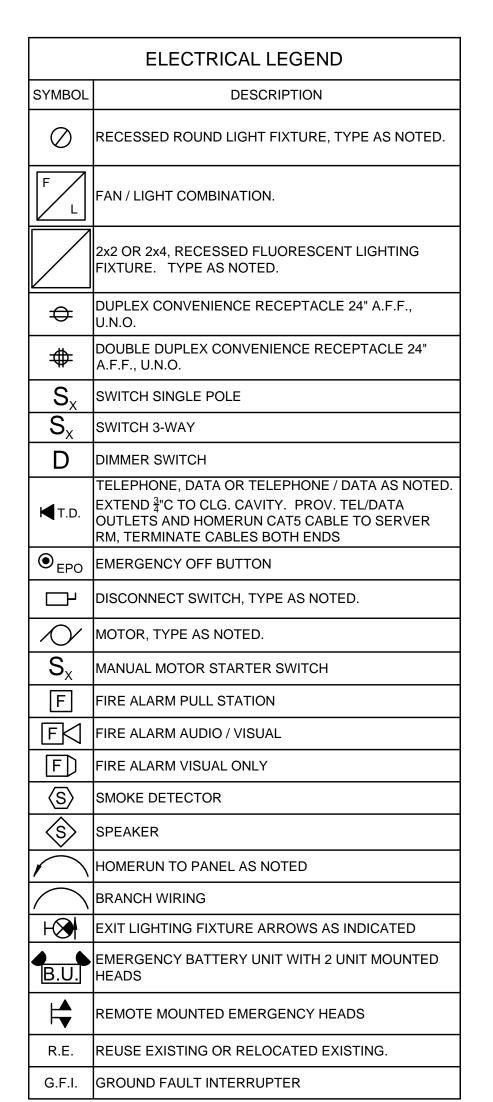




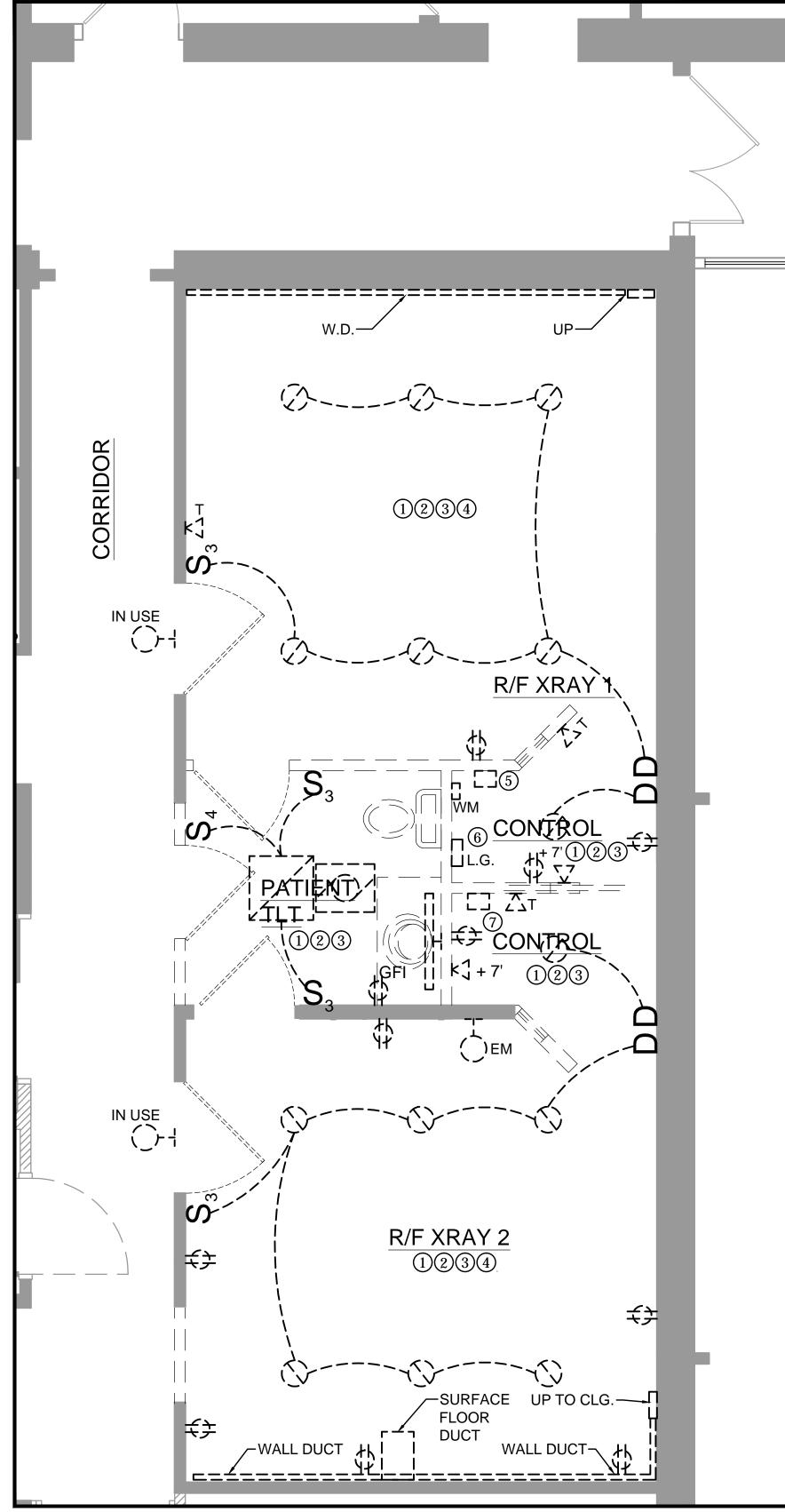






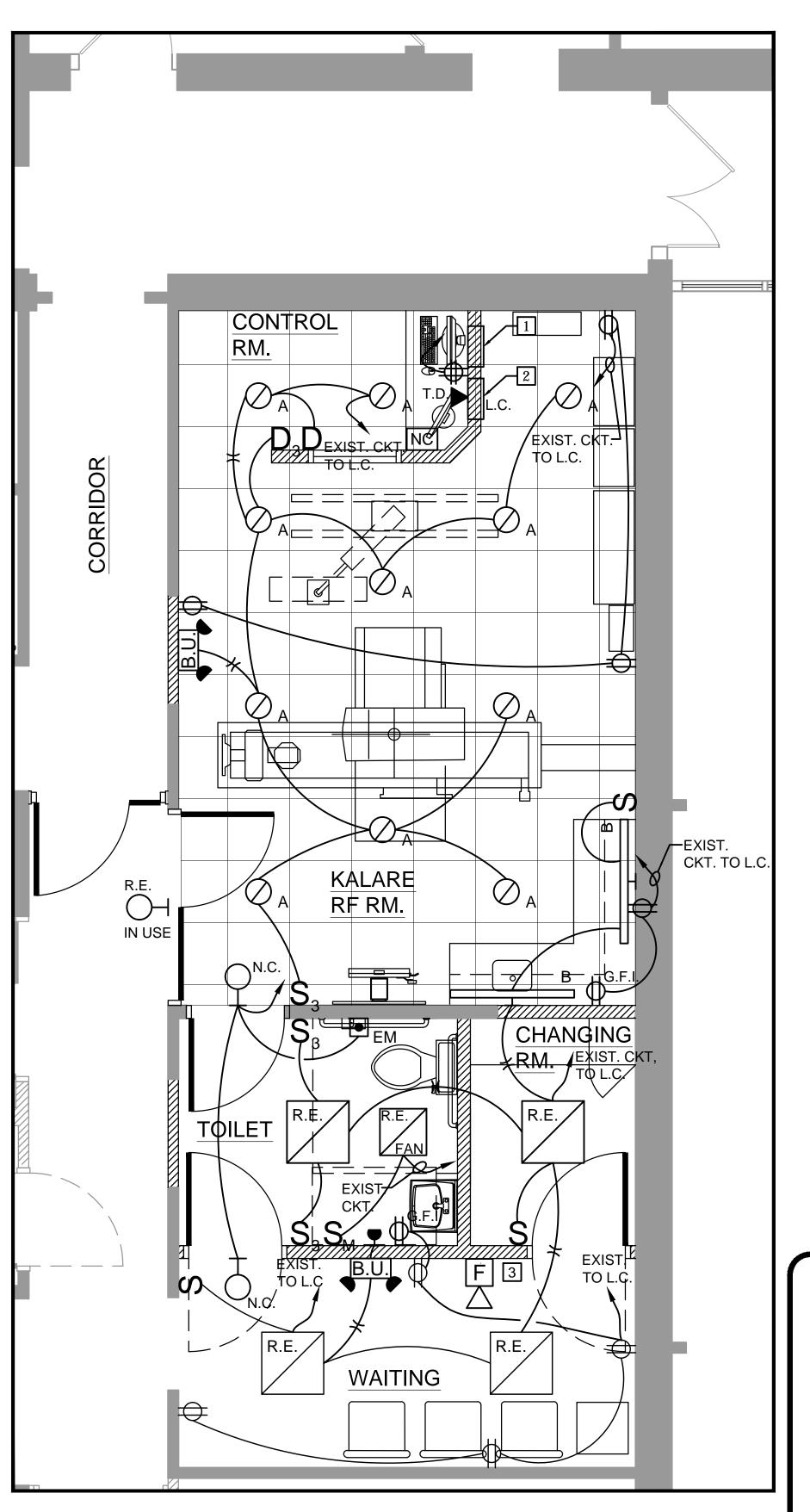


	LIGHTING FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION					
А	RECESSED ROUND FLOURESCENT FIXTURE WITH 2) 26 WATT PL LAMPS, LOW IRIDESCENT CLEAR EPECULAR REFLECTOR AND DIMMING BALLAST.					
В	UNDERCABINET FLUORESCENT LIGHTING FIXTURE WITH ACRYLIC, PRISMATIC LENS, 4 FOOT SINGLE LAMP.					



R/F ROOM DEMOLITION PLAN

Scale: 3/8" = 1'-0"



2 KALARE R/F RM NEW POWER AND LIGHTING PLAN

Scale: 3/8" = 1'-0"

DEMOLITION NOTES:

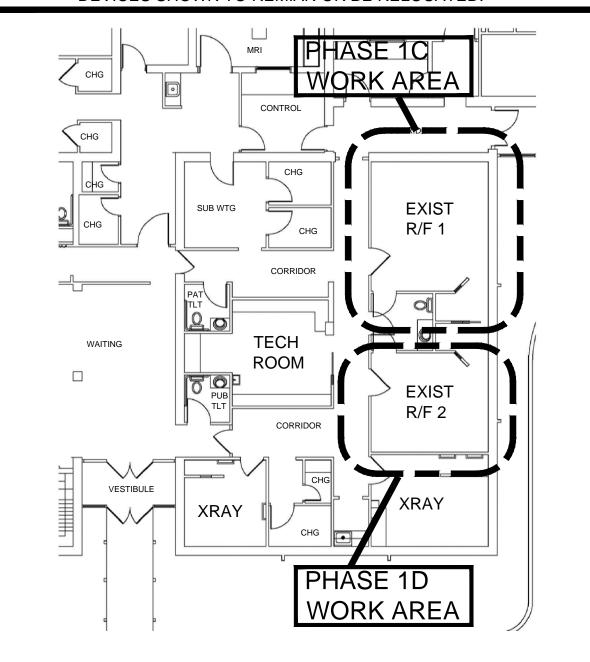
- 1 REMOVE ALL EXISTING LIGHTING FIXTURES, SWITCHES, DIMMERS SHOWN DOTTED BRANCH WIRING TO REMAIN AND REUSED WHERE APPLICABLE.
- 2 REMOVE ALL RECEPTACLES AND DATA OUTLETS SHOWN DOTTED. REUSE WIRING WHERE APPICABLE. MAINTAIN CONTINUITY TO DEVICES ON CIRCUITS TO REMAIN.
- (3) REMOVE AND RELOCATE SPEAKERS, FIRE ALARM A/V UNITS AND SMOKE DETECTORS WHERE INDICATED ON PLAN.
- 4 REMOVE EXISTING WALL DUCT AND WIRE WAYS SHOWN
- (5) REMOVE EXISTING 100A-3P, 480V BREAKER. EXTEND FEEDER TO NEW BREAKER LOCATION. PROVIDE GROUND WIRE SIZE EQUAL TO EXISTING PHASE WIRES TO MDP-2 CKT. #14 IN BASEMENT.
- 6 REMOVE EXISTING 100A, 1Ø, 12 CKT. 120 / 208 V, 1Ø FLUSH MOUNTED LOAD CENTER. EXTEND FEEDER AND BRANCH CIRCUITS TO NEW LOAD CENTER LOCATION. SEE CONSTRUCTION NOTE 2
- 7 REMOVE EXISTING 100A, 3P, 480V CIRCUIT BREAKER AND FEEDER TO PANEL ON MDP2 CKT #6 IN FIRST FLOOR ELECTRICAL ROOM.

CONSTRUCTION NOTES:

- PROVIDE A 80A-3P, RECESSED 480V SHUNT TRIP BREAKER, SEE DEMO NOTE 5.
- 2 PROVIDE A 100A, 1Ø, 12 CKT. 120 / 208 V, 1Ø, FLUSH MOUNTED LOAD CENTER WITH 60A-2P MAIN BREAKER AND BRANCH BREAKER TO MATCH EXISTING LOAD CENTER BEING REMOVED.
- 3 PROVIDE FIRE ALARM A/V UNIT CONNECT TO EXISTING FIRE ALARM SYSTEM.

GENERAL NOTES:

- 1. PROVIDE NEW LIGHTING FIXTURES, TYPE AS NOTED, WHERE INDICATED ON PLAN.
- 2. RELOCATE EXISTING FIXTURES WHERE NOTED B 'R.E.' CLEAN AND RELAMP FIXTURES.
- 3. RELOCATE EXISTING FIRE ALARM DEVICES AND EMERGENCY LIGHTING WEHRE INDICATED ON PLAN BY 'R.E.' AND PROVIDE NEW DEVICES AS REQUIRED. RECONNECT INTO EXISTING FIRE ALARM AND EMERGENCY LIGHTING SYSTEMS WHERE INDICATED PROVIDE NEW EXIT LIGHTS TO MATCH EXISTING.
- 4. REUSE EXISTING BRANCH WIRING AND CIRCUITS WHERE APPLICABLE. NEW WIRING SHALL BE MINIMUM 2# 12 + 1# 12G, HG, MC CABLE UNLESS OTHERWISE NOTED.
- 5. ALL ELECTRICAL WORK SHALL CONFORM TO THE APPLICABLE NATIONAL ELECTRIC CODE, STATE AND LOCAL CODES.
- 6. SEE TOSHIBA KALARE DRAWINGS FOR THE REQUIRED JUNCTION BOXES, CABLE TRAYS, WIREWAYS, CONDUIT RUNS AND REQUIRED POWER AND CONTROL INTERCONNECT WIRING AND GROUNDING.
- 7. PROVIDE NEW DEVICES AND PLATES FOR ALL EXISTING DEVICES SHOWN TO REMIAN OR BE RELOCATED.



PROJECT MAP

Revision/Date By

I E.K.IN, IINC.

INEERS • BUILDERS

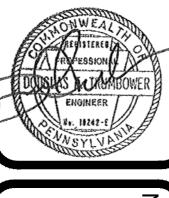
(ES-BARRE, PA. 18705
FAX NO. 570•287•5025

CHITECTS • ENGINEERS • E

GRAVEL STREET WILKES-BARRE, F







ACLE HEALTH UNION DEPOSIT
RAY SUITE IMPROVEMENTS
JNION DEPOSIT RD., HARRISBURG, PA 17110
R/F ROOM DEMOLITION PLAN
R/F ROOM POW/FR & LIGHTING PLA

Drawn K.P.W. / J.B.P.
Checked D.F.T.
Start Date 10/01/2013
Scale AS NOTED

E-1
PHASE 1C
PHASE 1D

13-5455



DRAWING CONTENTS

C1 COVER SHEET GN GENERAL NOTES

SECTION A

A1 EQUIPMENT LAYOUT

A2 EQUIPMENT ELEVATIONS

A3 EQUIPMENT ELEVATIONS

TRISTAN
ASSOCIATES

(F/R ROOM — KALARE)

4518 UNION DEPOSIT RD.
HARRISBURG, PA 17111

INFORMATIONAL PURPOSES ONLY
AND SHALL NOT BE USED FOR
ANY PURPOSE OTHER THAN THAT
AGREED UPON BETWEEN TOSHIBA
AND THE CUSTOMER. THESE SITE
PLANS ARE NOT TO BE USED
FOR CONSTRUCTION PURPOSES

SCALE: NOT TO SCALE

130013976XRP

PLANNER:

PROJECT NO.

10-18-13

M.M.P.

30005332

MINIMUM SITE REQUIREMENTS CHECKLIST PROJECT: SITE INSPECTION DATE: EQUIPMENT DELIVERY DATE: INSPECTED BY: IN ORDER TO ENSURE A TIMELY AND SUCCESSFUL INSTALLATION, IT IS NECESSARY TO COMPLETE THIS FORM PRIOR TO INSTALLATION. PLEASE ASSIST US BY HAVING THE CONTRACTOR OR YOUR REPRESENTATIVE COMPLETE THE FOLLOWING: ALL WALLS, FLOORS, AND CEILINGS FINISHED. WALLS PAINTED, FLOORS TILED, AND CEILING GRID WORK AND FIXTURES INSTALLED. MONOLITHIC OR LAY-IN CEILING? PLEASE CIRCLE ONE. ALL MATERIALS IN SCAN | ROOM MUST BE NON—FERROUS. DOORS AND WINDOWS (INCLUDING ALL LEADED DOORS AND GLASS) INSTALLED AND LOCKABLE. DOORS TO BE REMOVED PRIOR TO DELIVERY BY CUSTOMER OR CONTRACTOR AND REINSTALLED AFTER EQUIPMENT MOVE-IN. RESERVE SECURE ROOM FOR STORAGE DURING INSTALLATION. AREA SET ASIDE FOR EQUIPMENT RIGGING AND MOVE-IN. ENVIRONMENTAL ISSUES ADDRESSED AND RESOLVED PRIOR TO EQUIPMENT DELIVERY (I.E. SURGICAL SUITE). ALL CONDUIT, TROUGHING (WITH COVERS), AND BOXES INSTALLED (CLEAN AND DUST FREE). GROMMETED OPENINGS, CHASE NIPPLES, RACEWAY DIVIDERS, ETC. COMPLETE. CIRCUIT BREAKER INSTALLED AND INCOMING POWER (PER POWER QUALITY REQUIREMENTS) OPERATIONAL AND CONNECTED TO ROOM BREAKER(S). LOCATION OF ALL ELECTRICAL BREAKERS IN POWER CHAIN NOTED. ALL CONTRACTOR-INSTALLED STRUCTURAL SUPPORT DEVICES INSTALLED AND LEVELED ACCORDING TO TAMS SPECIFICATIONS ON SITE PLANS. 9. ROOM LIGHTING INSTALLED AND OPERATIONAL. LIGHTING/SPRINKLER HEADS PRESENT NO CONFLICT WITH UNITS TO BE MOUNTED ON THE CEILING. 11. | 110V ROOM OUTLETS OPERATIONAL. ALL CONTRACTOR-SUPPLIED CABLES PULLED AND TERMINATED, INCLUDING GROUND WIRE IN TROUGHING AS SPECIFIED IN THE TOSHIBA SITE PLANS. INTERFACE FOR DIMMING OF ROOM LIGHTS IF APPLICABLE. WARNING LIGHTS AND 13. | DOOR SWITCHES INSTALLED AND INTERFACE AVAILABLE AND CONNECTED (RELAYS ETC.). 14. DUST-FREE ENVIRONMENT IN ALL RELATED ROOMS. HEATING AND AIR-CONDITIONING INSTALLED, OPERATIONAL AND STABILIZED PER TOSHIBA SITE PLANS. FILTERS TO BE CHANGED 24 HOURS BEFORE DELIVERY. 16. ALL MILLWORK COMPLETE AND INSTALLED. PLUMBING COMPLETED (INCLUDING GASES, IF APPLICABLE) ACCORDING TO TAMS SPECIFICATIONS ON SITE PLANS. 18. OPTIONAL COMPUTER FLOORING INSTALLED (IF APPLICABLE). THIRD PARTY VENDED ITEMS SUCH AS PROCESSORS, INJECTORS, GAS 19. PEDESTALS, PHYSIOLOGICAL MONITORING EQUIPMENT, ETC., INSTALLED AND OPERATIONAL. TELEPHONE LINES (VOICE AND OPTIONAL MODEM) INSTALLED AND OPERATIONAL. 20. A DEDICATED PHONE LINE IS REQUIRED FOR SITES THAT ARE RECEIVING INNERVISION. 21. ALL UNFINISHED AREAS ARE SEALED OFF TO PREVENT DUST CONTAMINATION. RECEPTACLE FOR TRASH AVAILABLE (LARGE ENOUGH FOR SHIPPING CRATES IF REQUIRED). 23. | SUB BASE PLATE(S) INSTALLED (IF REQUIRED). 24. PDU" INSTALLED AND CONNECTED TO "CB". EPOXY LEVELING PAD INSTALLED BY (TOSHIBA OR CONTRACTOR)? PLEASE CIRCLE ONE. IF BY CONTRACTOR, TOSHIBA REPRESENTATIVE MUST INSPECT PAD. SEISMIC REQUIREMENTS, AND REQUIRED SEISMIC ANCHORING DEVICES INSTALLED (IF APPLICABLE). 27. | NETWORK CONNECTIONS INSTALLED AND OPERATIONAL. 28. ALL APPLICABLE PERMITS OBTAINED. 29. CUSTOMER MUST COMPLETE ALL ITEMS ON THIS CHECKLIST BEFORE SCHEDULED DELIVERY DATE FOR THE EQUIPMENT. IF CUSTOMER FAILS TO DO SO, DELIVERY MAY BE DELAYED. **FURTHERMORE, THE EQUIPMENT WARRANTY MAY BE VOIDED. COMMENTS:** SIGNED TOSHIBA: CONTRACTOR: CUSTOMER: 10-07-1 **CEILING HEIGHT** RECOMMENDED CEILING HEIGHT: 9'-2" (SEE DETAIL 1 ON SHEET A3) EXISTING CEILING HEIGHT: 9'-6"

OVERHEAD X-RAY TUBE SUPPORT RAILS MUST NOT BE DIRECTLY OVER KALARE TABLE. IF OVERHEAD X-RAY TUBE SUPPORT RAILS ARE DIRECTLY ABOVE KALARE TABLE, THE CEILING HEIGHTS SHOWN MUST BE INCREASED BY THE DEPTH OF THE RAIL (APPROXIMATELY 4").

GENERAL NOTES

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.

- A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DESIGNS AND SPECIFICATIONS
- WITHOUT NOTICE.
- B. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL MATERIALS AND OTHER FEATURES SPECIFIED IN THE TOSHIBA SITE PLANS. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL COUNTERTOPS, SINKS, CASE WORK AND CABINETS SPECIFIED IN THE TOSHIBA SITE PLANS.
- C. ANY CABINETRY THAT MAY BE REQUIRED TO HOUSE VIDEO RECORDERS, MONITORS KEYBOARDS, OR OTHER ANCILLARY EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- D. THE CUSTOMER/CONTRACTOR SHALL PROVIDE ADEQUATE VENTILATION WITHIN CABINETRY AND INSTALL AXIAL FANS ON THE TOP, SIDE, OR BACK OF CABINETS, IF
- E. THESE TOSHIBA SITE PLANS DO NOT INDICATE EQUIPMENT REQUIREMENTS FOR ITEMS NOT SOLD BY TOSHIBA SUCH AS, PHYSIOLOGICAL MONITORS, LASER CAMERAS, INJECTORS, ETC. SPECIFICATIONS FOR THOSE ITEMS MUST BE OBTAINED FROM THE
- VENDOR AND INCLUDED IN THE DESIGN TOTALS. F. IF REQUIRED, THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN INTERCOM SPEAKER SYSTÉM BETWEEN THE EQUIPMENT ROOM, CONTROL ROOM,
- G. THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS REQUIRED FOR THE ENGINEERING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS SUCH AS ASBESTOS.
- H. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OPERATING PHONE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION
- CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE LIGHTING FOR SERVÍCING OF EQUIPMENT IN ALL AREAS OF THE INSTALLATION.
- J. PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION, THE SITE MUST BE 100% COMPLETE, CLEAN AND FREE OF DUST. CUSTOMER/CONTRACTOR AND TOSHIBA INSTALLATION PROJECT MANAGER MUST COMPLETE A SITE WALK THROUGH 1 WEEK PRIOR TO DELIVERY AND DETERMINE ACCEPTABILITY FOR DELIVERY.
- K. CUSTOMER/CONTRACTOR/ARCHITECT SHALL BE RESPONSIBLE FOR PROVIDING THE ENTIRE NETWORKING AND COMMUNICATION SYSTEMS.
- L. CUSTOMER/CONTRACTOR SHALL DESIGN, FABRICATE, AND INSTALL MEDICAL GAS PEDESTAL, IF REQUIRED. CONSULT WITH TOSHIBA INSTALLATION MANAGER FOR SUITABLE LOCATIONS.

CODES AND PERMITS

AND PROCEDURE ROOM.

HE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE FEDERAL, STATÉ, AND LOCAL CODES AND ORDINANCES ARE COMPLIED WITH.

SITE CONDITIONS

- DIMENSIONS TO WALLS AND OR OTHER ROOM FEATURES, EXCEPT FOR NOTED COLUMN AND BEAM CENTER LINES SHALL BE FROM FINISHED SURFACES.
- O. IT IS RECOMMENDED THAT XR EQUIPMENT REMAIN OUTSIDE 1 GAUSS FIELD OF MR EQUIPMENT.

P. PLUMBING IS REQUIRED FOR CERTAIN COMPONENTS OF TOSHIBA EQUIPMENT.

Q. IT IS RECOMMENDED THAT A SINK BE PROVIDED FOR USE BY PERSONNEL.

TRANSPORT REQUIREMENTS

- EQUIPMENT INGRESS ROUTE MUST BE CHECKED PRIOR TO EQUIPMENT DELIVERY TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED. DIMENSIONS OF DOORWAYS SHOULD BE NO LESS THAN 4'-0" IN WIDTH.
- S. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS OF THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT FOR THIS INSTALLATION.

CUSTOMER TO PROVIDE THE NECESSARY HVAC REQUIREMENTS

FOR THE TOSHIBA EQUIPMENT TO OPERATE PROPERLY.

HVAC REQUIREMENTS

- AMBIENT TEMPERATURE SHOULD BE IN ACCORDANCE WITH THE FOLLOWING FOR CORRECT EQUIPMENT OPERATION AND PATIENT/OPERATOR COMFORT.
- A. AIR-CONDITIONING FACILITIES MUST BE PROVIDED TO ENSURE THAT THE AMBIENT TEMPERATURE AND RELATIVE HUMIDITY ARE MAINTAINED WITHIN THE OPERATING ENVIRONMENTAL CONDITIONS.
- AIR SUPPLY DUCTS SHOULD NOT BE PLACED DIRECTLY OVER EXAMINATION TABLES FOR PATIENT COMFORT.
- EQUIPMENT IN ENCLOSED SPACES SUCH AS EQUIPMENT ROOMS, TRANSFORMER CLOSETS, AND COMPUTER ROOMS MUST BE PROVIDED WITH ADEQUATE VENTILATION. THE AIR FLOW THROUGH TOSHIBA EQUIPMENT CABINETS IS FROM BOTTOM TO TOP. WHERE POSSIBLE, A/ SUPPLY OUTLETS SHOULD BE LOCATED AT FLOOR LEVEL WITH RETURN GRILLES IN THE CEILING. A/C SUPPLY OUTLET TO BE PROVIDED BY CUSTOMER FLOOR LEVEL AT CONTROL
- TO MAINTAIN THE ENVIRONMENTAL CONDITIONS SPECIFIED BELOW, INSTALL AN AIR-CONDITIONER, DEHUMIDIFIER, ETC. WITH APPROPRIATE PERFORMANCE RATINGS FOR THE EXAMINATION ROOM SIZE.

OVOTE	- A NIANE
ATMOSPHERE	DO NOT INSTALL THE SYSTEM IN A LOCATION WHERE THE OPERATING ENVIRONMENTAL CONDITIONS SPECIFIED ABOVE ARE NOT SATISFIED. ALSO, DO NOT INSTALL THE SYSTEM IN A LOCATION WHERE IT MAY BE EXPOSED TO THE FOLLOWING: FLAMMABLE GASES, CORROSIVE GASES, STEAM, DRIPPING WATER, EXCESSIVE DUST, SALTY AIR, DIRECT SUNLIGHT, EXCESSIVE SHOCK OR VIBRATION, EXCESSIVE LINE VOLTAGE FLUCTUATION
ILLUMINANCE	1000 LX OR LESS
ATMOSPHERIC PRESSURE	700 hPa TO 1,060 hPa
RELATIVE HUMIDITY	30% TO 85% (NO CONDENSATION
AMBIENT TEMPERATURE	10°C TO 35°C

SYSTEM NAME	HEAT GENERATION (BTU/HR)	POWER CONSUMPTION (kW)
DUA-450F	1,239.00	0.027 (DURING STANDBY)
KXO-80XD	7,678.00	
	4,164.00 (FOR CONTINUOUS FLU	OROSCOPY ONLY)

2,731.00 APPROX. (DURING STANDBY)

STRUCTURAL NOTES

- **CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED** THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE STRUCTURE REQUIRED FOR THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL STRUCTURAL ELEMENTS MUST BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.
- B. THE CUSTOMER/CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
- C. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED THAT ARE CONTRADICTORY TO THOSE SHOWN IN THE
- D. THE DEMOLITION, FABRICATION AND ERECTION OF SUPPORT STRUCTURES FOR TOSHIBA EQUIPMENT SHALL BE PERFORMED BY THE CUSTOMER/CONTRACTOR IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS SET FORTH BY THE STRUCTURAL ENGINEER OF
- E. DUE TO THE DYNAMIC NATURE OF THE LOAD, BOTH HORIZONTAL AND VERTICAL ACCELERATIONS SHOULD BE INCLUDED IN THE DESIGN CALCULATIONS FOR THE SUPPORT STRUCTURE AS WELL AS ANCHORING AND THRU-BOLTING FOR THE TOSHIBA EQUIPMENT (FOR EXAMPLE, CEILING INJECTORS OR MONITORS).
- F. IN THE INTEREST OF SAFETY, TOSHIBA RESERVES THE RIGHT TO DELAY INSTALLATION COMMENCEMENT UNTIL RECEIPT OF STRUCTURAL DESIGN DRAWINGS STAMPED BY THE STRUCTURAL ENGINEER OF RECORD.

UNDER NO CIRCUMSTANCE SHOULD THE TOSHIBA EQUIPMENT BE INSTALLED ON A WOOD

- H. THE FLOOR MUST USE CONCRETE WITH A LOAD STRENGTH OF AT LEAST 2,560 PSI (1,760 M/cm²) OVER THE ENTIRE FLOOR SURFACE.
- I. THE DEPTH OF CONCRETE MUST BE AT LEAST 5 1/8" (130 mm).
- J. THE LEVELNESS SLOPE IN THE LONGITUDINAL DIRECTION SHOULD BE LESS THAN 1/16" OVER 5'-9" RUN (1 mm OVER 1,100 mm).
- K. THE LEVELNESS SLOPE IN THE LATERAL DIRECTION SHOULD BE LESS THAN 1/16" OVER 3'-9" RUN (1 mm OVER 713 mm).
- L. EVENNESS OF FLOOR UNDER BASE SHOULD BE LESS THAN 1/32" (1 mm).
- M. IF EPOXY LEVELING OF THE FLOOR IS REQUIRED FOR THE FLOOR MOUNTED EQUIPMENT IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND PERFORM THIS TASK WITH ASSISTANCE OF TOSHIBA. THE EPOXY BASE MUST HAVE A CURE RATING OF 15,000 PSI MINIMUM.
- CEILING STRUCTURAL SYSTEM
 N. CEILING UNISTRUT SUPPORT STRUCTURES TO BE DESIGNED BY OTHERS BASED ON SPECIFICATIONS SHOWN ON TOSHIBA SITE PLANS.
- O. UNISTRUT OR EQUIVALENT CHANNEL SUPPORT SYSTEM TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- P. IN ORDER TO AVOID COLLISION WITH MOVEABLE TOSHIBA CEILING MOUNTED EQUIPMENT, ALL CEILING FIXTURES SUCH AS LAMPS, SMOKE DETECTORS, SPRINKLERS, ETC. MUST B FLUSH MOUNTED.
- Q. CONTRACTOR TO SUPPLY M10 UNISTRUT NUTS.

ACCESS NOTES

CUSTOMER/CONTRACTOR TO PROVIDE TWO 18" X 18" CEILING ACCESS PANELS FOR SERVICING OF CEILING MOUNTED EQUIPMENT WHEN INSTALLED ON HARD FINISHED CEILINGS. A MINIMUM CLEARANCE OF 12" ABOVE FINISHED CEILING IS REQUIRED IN THE AREA OF THE ACCESS PANELS.

UNISTRUT ARE TO BE P1001 OR EQUIVALENT. MOUNTED FLUSH WITH FINISHED CEILING. ALL UNISTRUT ARE TO BE MOUNTED PARALLEL AND LEVEL WITH A MAXIMUM DEVIATION OF 1/16". UNISTRUT IS TO BE CAPABLE OF SUPPORTING LOAD REQUIREMENTS OF TOSHÍBA EQUIPMENT. UNISTRUT LOAD REQUIREMENTS AND DESIGN ARE THE

10-07-1

SPECIAL NOTES SPECIAL SEISMIC CERTIFICATION

WHERE SPECIAL SEISMIC CERTIFICATION IS REQUIRED BY CODE THE STRUCTURAL

- ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR NOTIFYING TOSHIBA'S INSTALLATION PROJECT MANAGER IN WRITING OF THE SEISMIC PERFORMANCE CATEGORY (SPC) RATING OF THE BUILDING IN WHICH TOSHIBA EQUIPMENT IS TO BE INSTALLED. FOR INSTALLATIONS IN A BUILDING RATED SPC3 OR HIGHER TOSHIBA WILL APPLY SPECIAL SEISMIC CERTIFICATION LABELING PER CBC SECTION 1703.5.
- B. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:

RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD.

B.A. OSP-0133-10 TABLE CONTROL UNIT PULSED FLUOROSCOPY UNIT DTS 100S OTC OVERHEAD TUBE CRANE GENERATOR CONTROL PANEL WALL STAND POWER SUPPLY TW-420-T BUCKY STAND (AS APPLICABLE) TW-420 BUCKY STAND (AS APPLICABLE) GENERATOR CABINET IDI 1000F-1 SINGLE SUSPENSION KALARE X-RAY DIAGNOSTIC TABLE MONITOR KEYBOARD MOUSE B.B OSP-0281-10 SYSTEM CABINET MAIN PROCESSING UNIT

TW-420-T-D TILTING BUCKY STAND (AS APPLICABLE) TW-420-D NON-TILTING BUCKY STAND (AS APPLICABLE) B.C. OSP-0133-10

POWER DISTRIBUTION UNIT (AS APPLICABLE)

C. WEIGHTS SHOWN ON THE OSP DOCUMENTS ARE GENERALLY A MAXIMUM AND THE WEIGHTS SHOWN ON THESE SITE PLANS REFLECT THE EQUIPMENT AS ORDERED.

ELECTRICAL REQUIREMENTS FOR KALARE SYSTEM WITH PDU

SUPPLY CONFIGURATION: 3 PHASE DELTA CONNECTED, 86 kVA SERVICE

SUPPLY VOLTAGE: 480V - 80 AMP

10-07-1

ELECTRICAL NOTES

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED. THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE ELECTRICAL

- REQUIREMENTS FOR THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL ELECTRICAL ELEMENTS MUST BE SPECIFIED BY A LICENSED ELECTRICAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATION AND ALL APPLICABLE CODES
- B. IN ACCORDANCE WITH NEC ARTICLE 517-72(B), THE EQUIPMENT CIRCUIT BREAKER(S) MUST BE LOCATED SO THAT THEY SHALL BE OPERABLE FROM A LOCATION READILY ACCESSIBLE FROM THE CONTROL AREA. IF THIS IS IMPOSSIBLE OR IMPRACTICAL, THE USE OF A SHUNT TRIP TYPE BREAKER WILL BE NECESSARY TO SATISFY THIS REQUIREMENT. THE EMERGENCY OFF BUTTON FOR THE SHUNT TRIP SHOULD BE LOCATED IN THE CONTROL AREA.
- C. THE CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL CIRCUIT BREAKERS, CONDUITS, JUNCTION BOXES, DUCTS, A/C POWER RECEPTACLES, THERMOSTATS, EMERGENCY OFF BUTTONS. AND 12 VOLT POWER. ETC. SPECIFIED HEREIN.
- D. THE TOSHIBA SITE PLANS DO NOT SPECIFY ELECTRICAL REQUIREMENTS FOR EQUIPMENT NOT SOLD BY TOSHIBA. THESE REQUIREMENTS MUST BE OBTAINED BY
- TOSHIBA WILL SUPPLY INTERCONNECTING CABLES FOR THE TOSHIBA EQUIPMENT. TOSHIBA WILL INSTALL IF LOCAL TRADE LABOR PERMITS.
- EXCEPT FOR THEIR USE IN POWER LINE CONNECTIONS TO EQUIPMENT CABINETS, FLEXIBLE CONDUIT SHALL NOT BE USED IN THIS INSTALLATION. ONLY FACTORY CONDUIT ELBOWS SHALL BE USED.
- G. DUCT WORK SHALL BE PROVIDED WITH SWEEP ELBOWS.
- H. ALL JUNCTION BOXES AND DUCTS THAT PENETRATE THE FLOOR SHALL BE WATERPROOF TYPE AND PROVIDED WITH GASKETED WATERPROOF COVERS. ALL FLOOR JUNCTION BOXES AND DUCT COVERS SHALL BE CAPABLE OF SUPPORTING A 200 LB. CONCENTRATED LOAD.
- ALL ACCESS HOLES ARE TO BE MADE IN THE DUCT WORK PER TOSHIBA SITE PLANS. ACCESS HOLES MUST BE GROMMETED WITH NON-CHAFING MATERIAL SUCH AS RUBBER/PLASTIC OR SLEEVED WITH A SHORT NIPPLE WITH NON-ABRASIVE BUSHINGS.
- J. ALL CHASE OPENINGS SHALL HAVE PLASTIC/NYLON BUSHINGS.
- K. ALL WALL DUCT WORK SHALL HAVE A MINIMUM OF THREE COMPARTMENTS. TRANSITIONS SUCH AS HORIZONTAL TO VERTICAL WALL DUCT OR JUNCTION BOXES MUST BE REVIEWED ON AN INDIVIDUAL BASIS WITH THE INSTALLATION PROJECT MANAGER. LOCAL CODES. MAY REQUIRE THE USE OF CROSS-OVER TUNNELS OR OTHER SUCH DEVICES TO MAINTAIN CABLE SEPARATION.
- L. ALL DUCT WORK MAKING A 90 DEGREE ANGLE MUST BE CHAMFERED FOR CABLE
- M. ALL DUCT AND CONDUITS SHALL BE ELECTRICALLY BONDED AS A GROUNDING PATH IN ACCORDANCE WITH NEC ARTICLE 517-13(B).
- N. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL GREENLEE NYLON MEASURING PULL STRING OR EQUIVALENT IN ALL CONDUITS AND CLOSED DUCT WORK.
- O. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
- P. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90° BENDS.
- Q. 110VAC GROUNDED OUTLETS SHALL BE PROVIDED ON WALLS NEAR THE TOSHIBA
- CUSTOMER/CONTRACTOR MUST SUPPLY AND INSTALL ALL INCOMING POWER CABLES FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CONNECTION POINT. CABLE TYPE MUST BE MTW. MULTI-STRAND COPPER - NO ALUMINUM IS PERMITTED. CABLE SIZE MUST BE IN ACCORDANCE WITH TOSHIBA POWER QUALITY REQUIREMENTS
- CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE TO ENCLOSE INCOMING POWER CABLES IN FLEXIBLE WATER TIGHT CONDUIT FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CABINET(S).
- ANY CHANGES IN THE LOCATION OR TYPE OF CONDUIT, DUCT WORK, JUNCTION BOXES, ETC. MUST BE SUBMITTED IN WRITING TO THE TOSHIBA INSTALLATION PROJECT MANAGER FOR APPROVAL.
- U. A SEPARATE CIRCUIT, FED FROM THE FACILITY RADIOLOGY PANEL OR A MAIN SERVICE PANEL IS REQUIRED. USE OF A SUB PANEL WITH LOADS SUCH AS ELEVATORS, HVAC, MOTORS, ETC. IS NOT PERMITTED.

06-01-1

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THESE TOSHIBA PLANS ARE FO INFORMATIONAL PURPOSES ONL AND SHALL NOT BE USED F ANY PURPOSE OTHER THAN THA AGREED UPON BETWEEN TOSHIBA AND THE CUSTOMER. THESE PLANS ARE NOT TO BE USE FOR CONSTRUCTION PURPOSE

10-18-13

NOT TO SCALE

PLANNER: M.M.P.

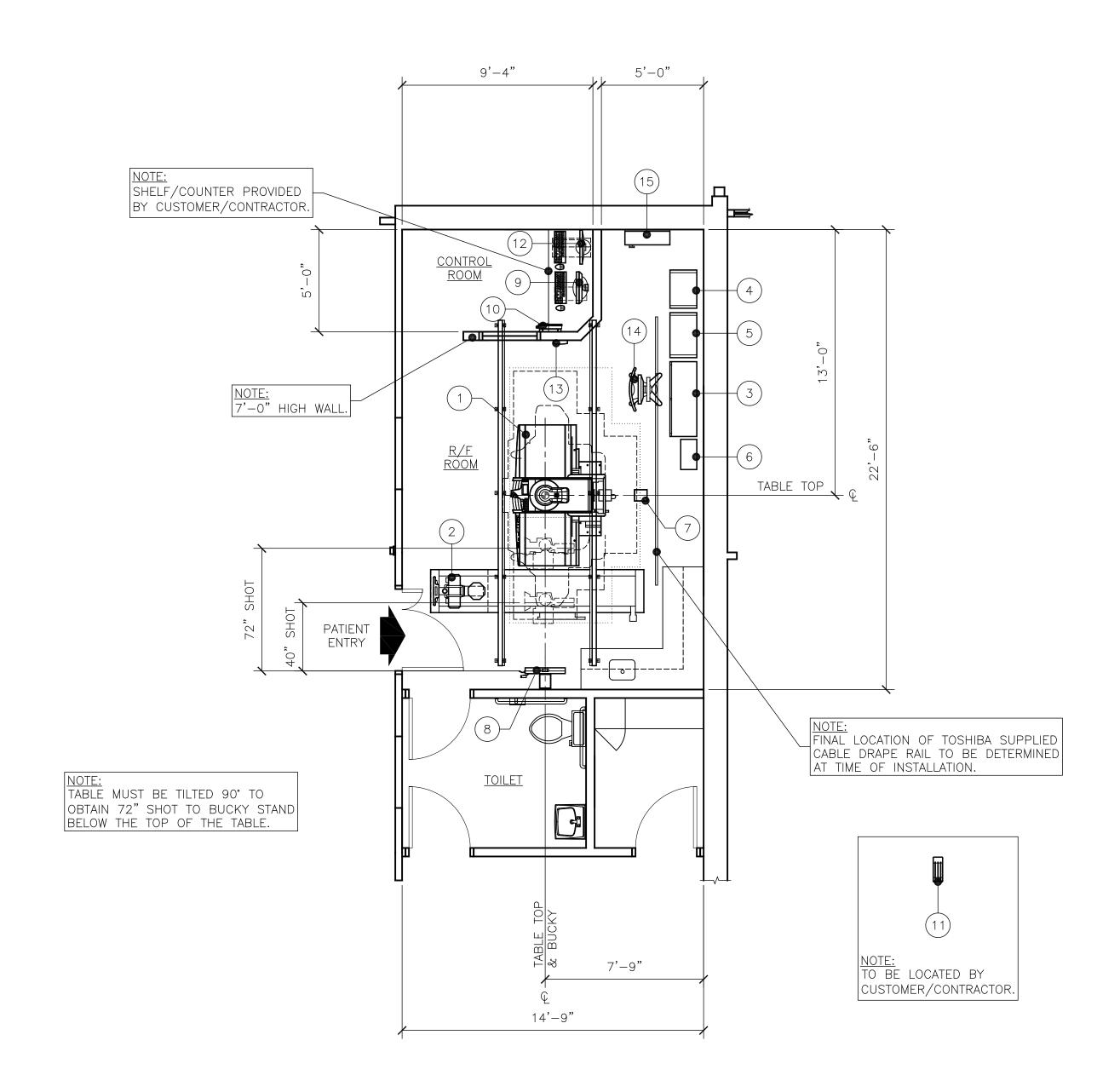
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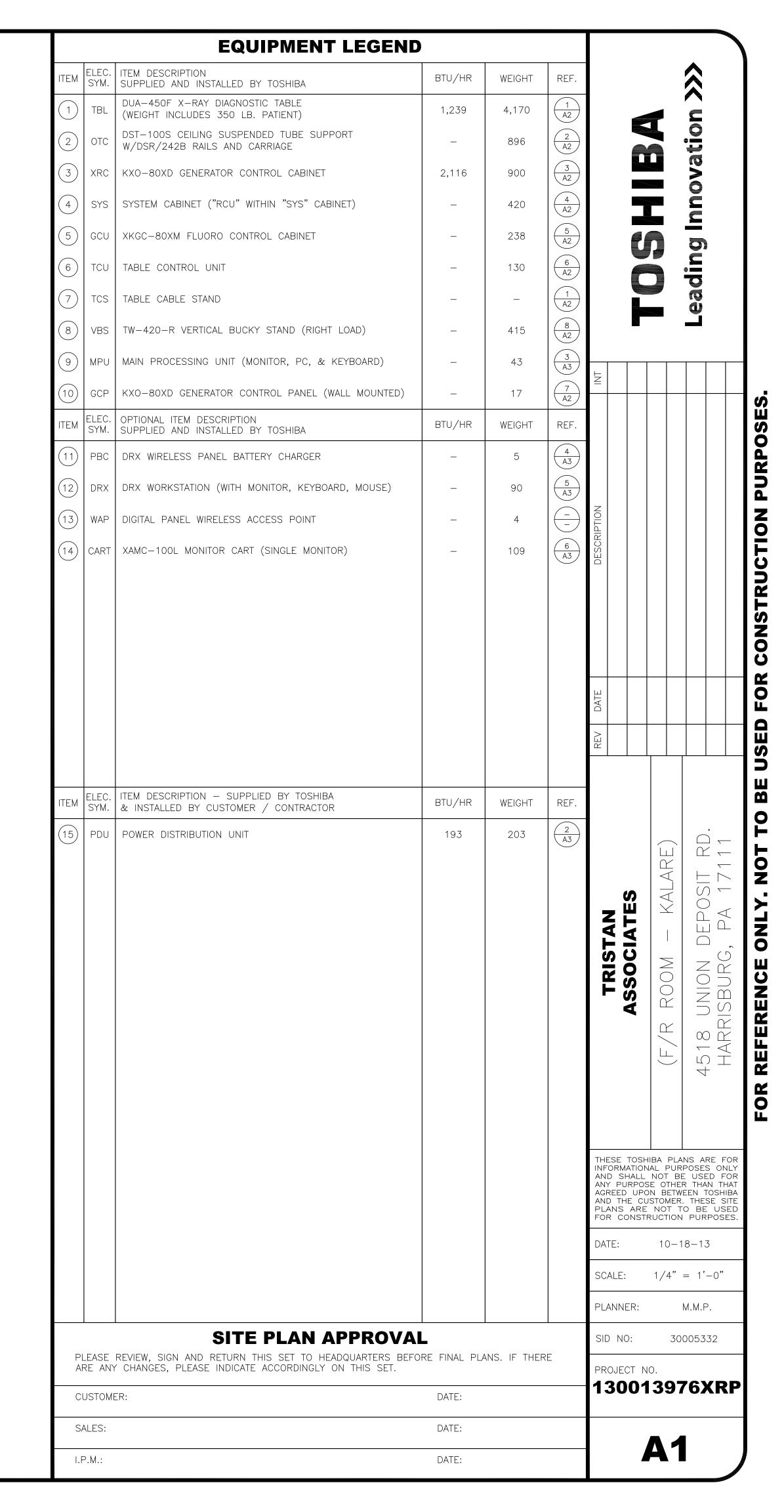
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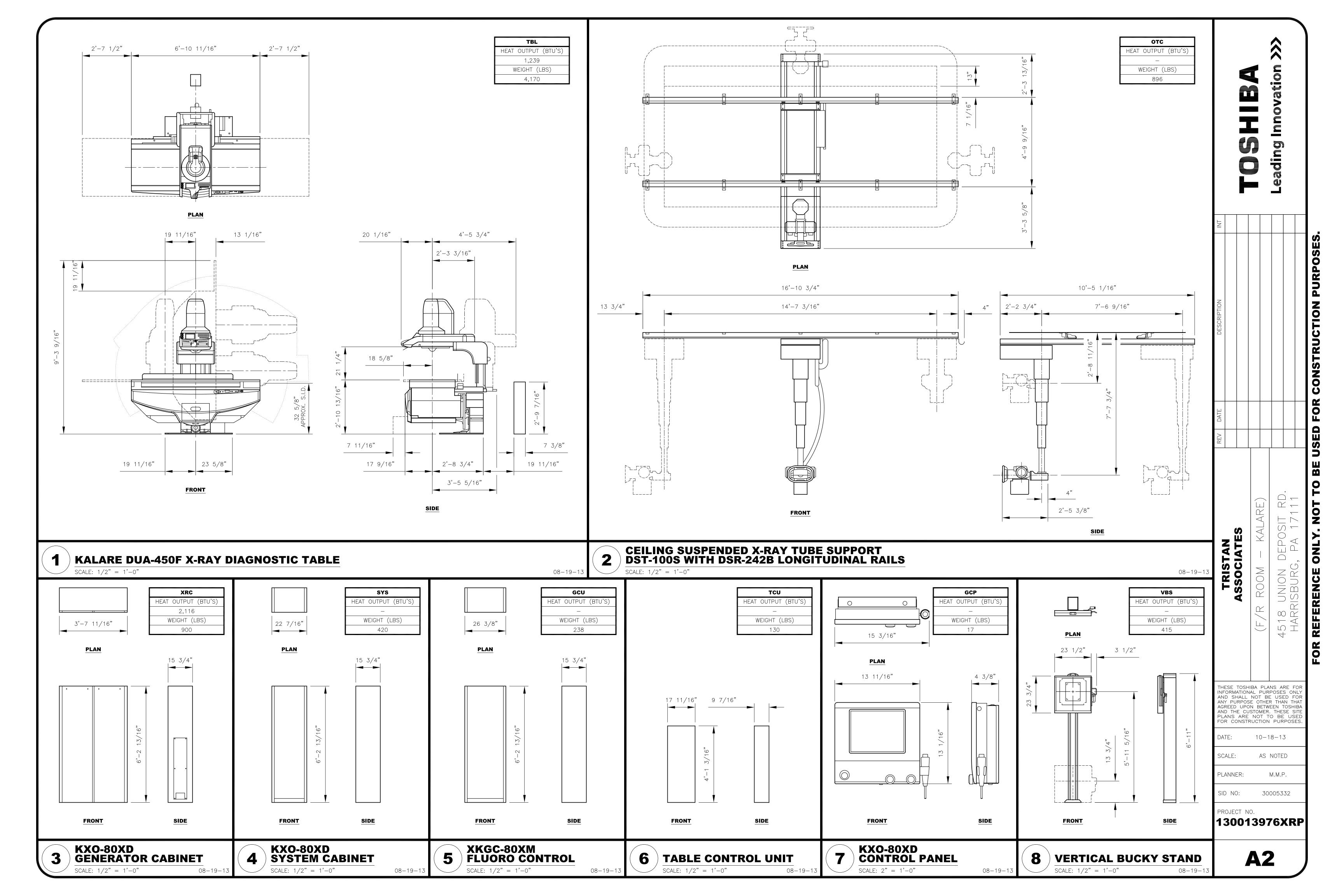
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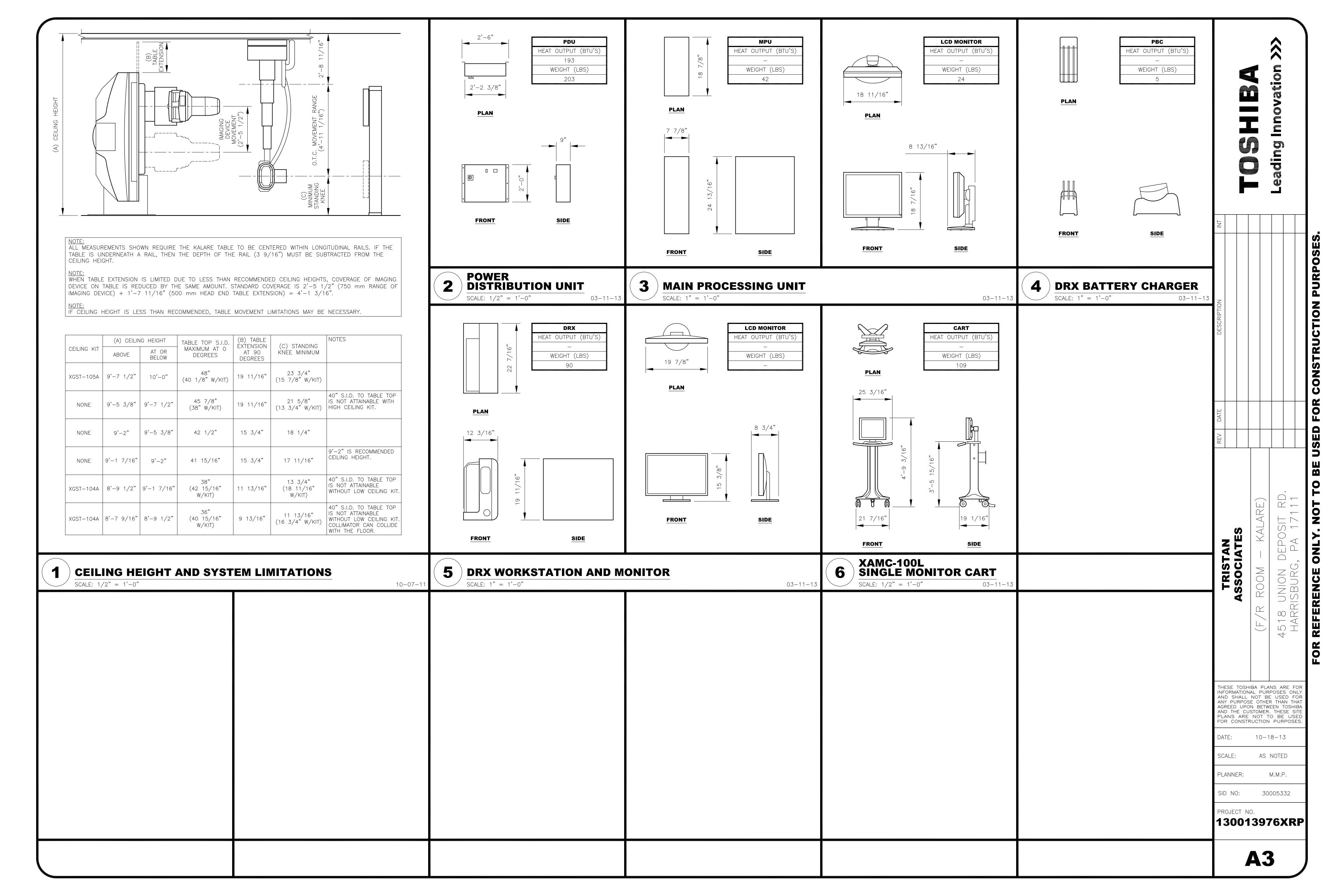
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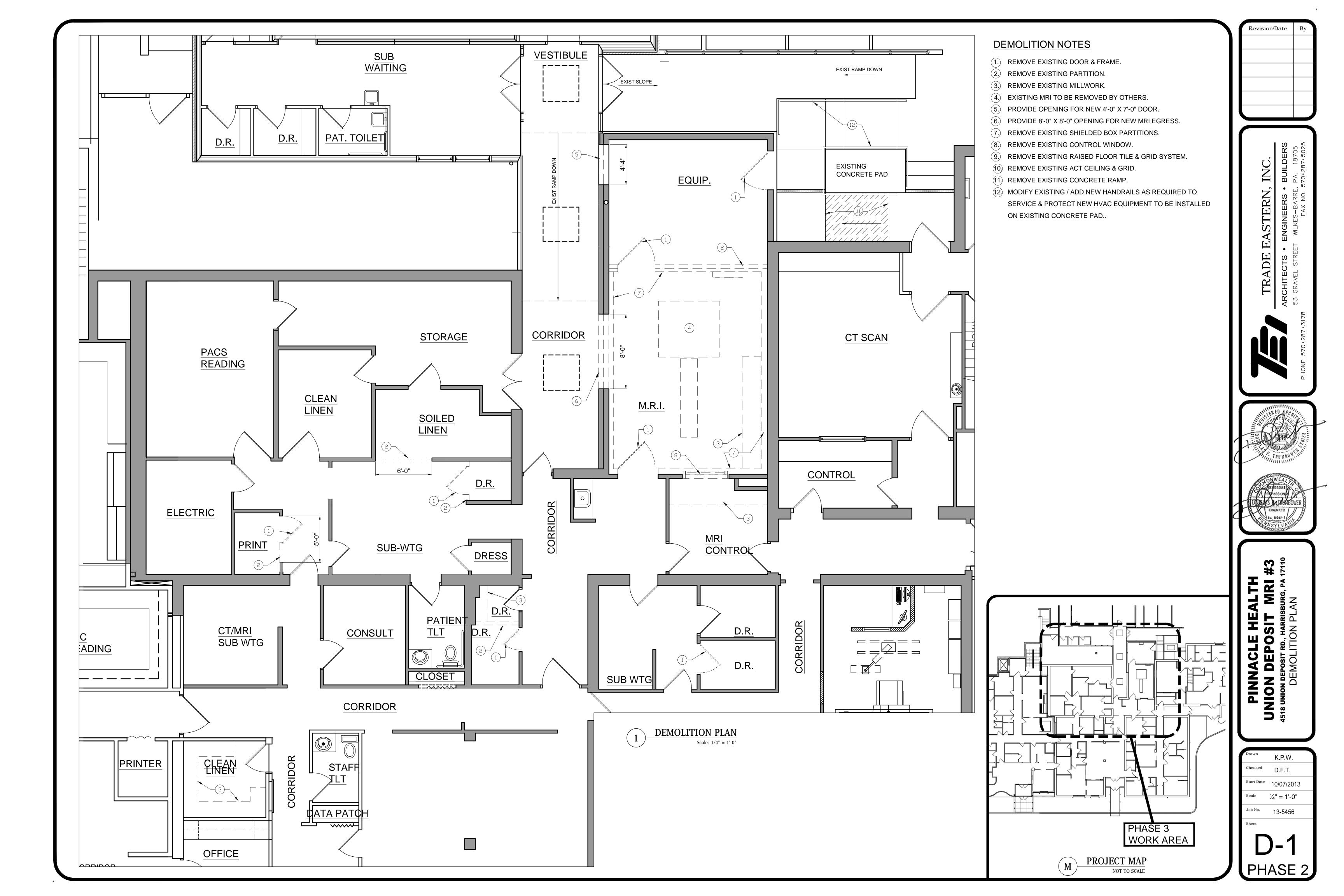


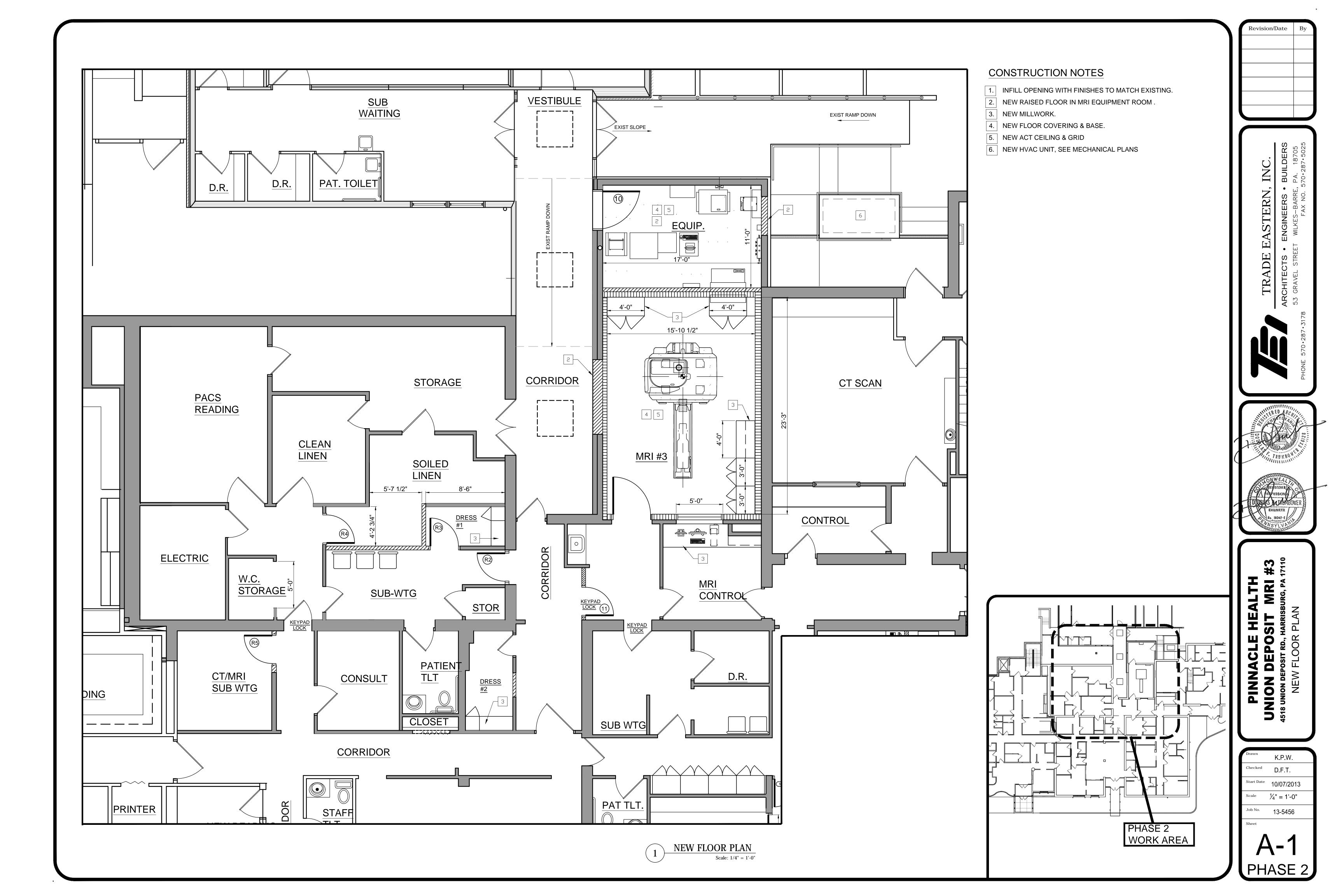
PRELIMINARY EQUIPMENT LAYOUT

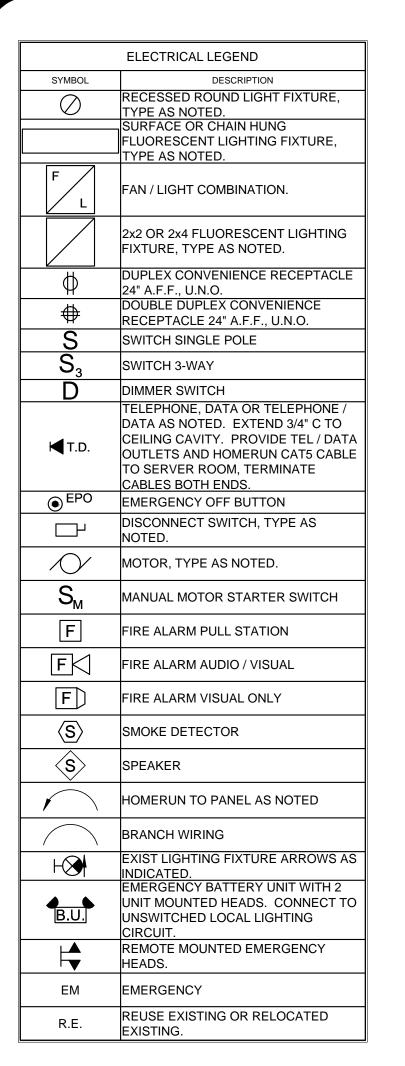






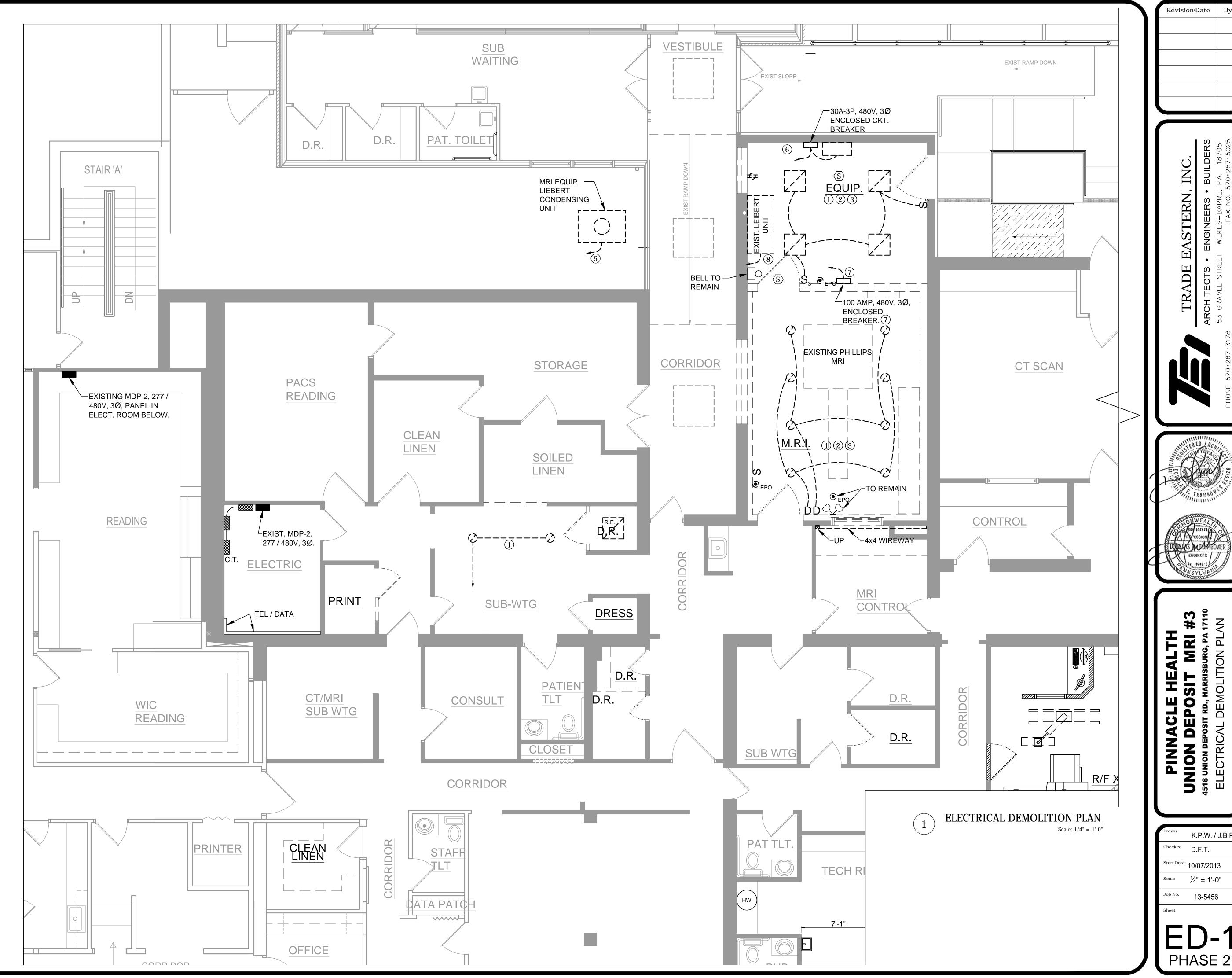






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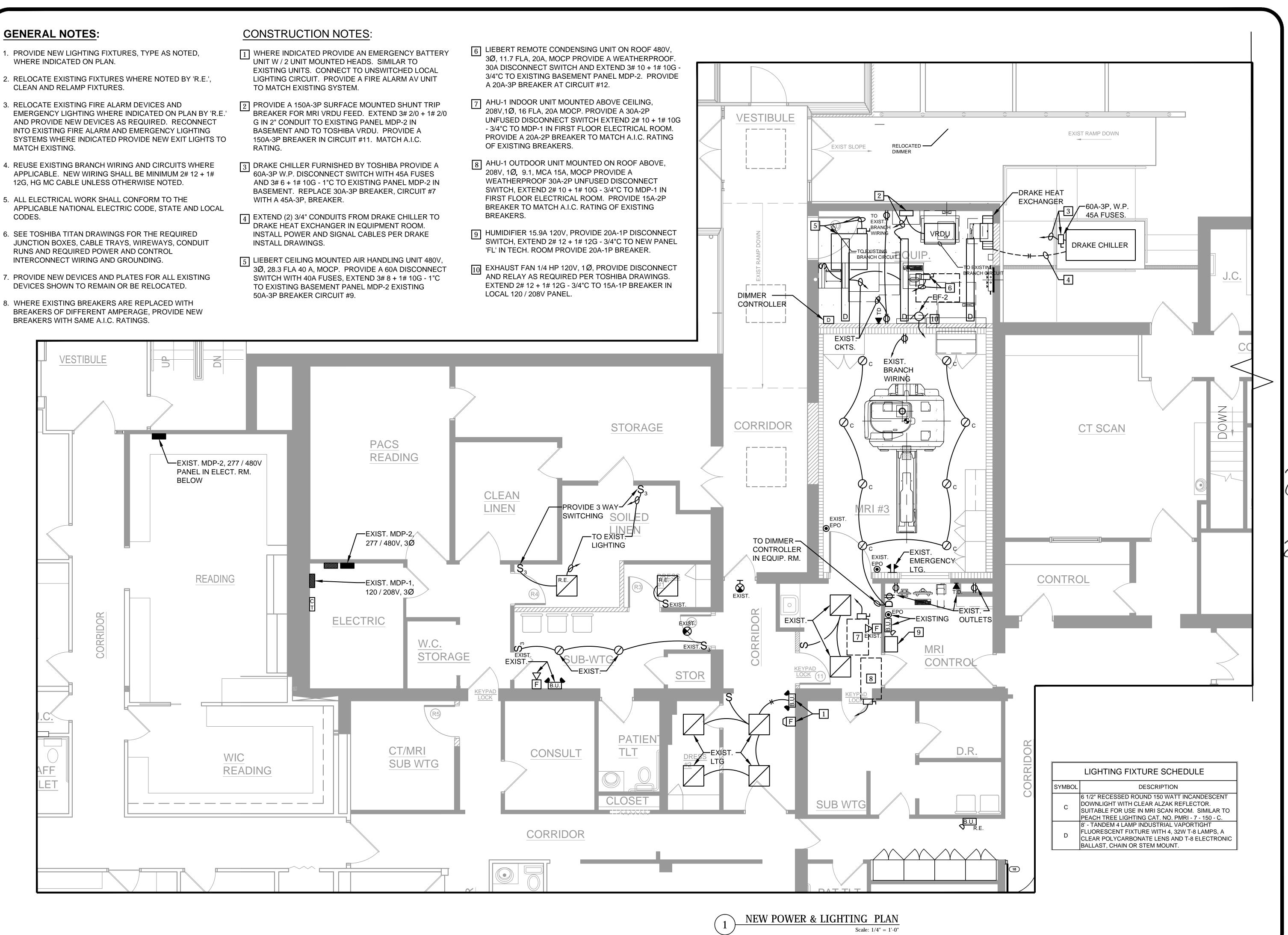
- 1 REMOVE ALL EXISTING LIGHTING FIXTURES AND WIRING SHOWN DOTTED. BRANCH CIRCUIT WIRING TO REMAIN AND REUSED WHERE APPLICABLE.
- (2) REMOVE EXISTING SWITCHES, DIMMERS, SWITCH LEGS AND EPO SWITCHES WHERE SHOWN DOTTED.
- (3) REMOVE RECEPTACLES, DATA AND TELEPHONE OUTLETS SHOWN DOTTED. RELOCATE WHERE NOTED. REUSE BRANCH WIRING WHERE APPLICABLE. MAINTAIN CONTINUITY TO DEVICES ON CIRCUITS TO REMAIN.
- (4) RELOCATE EMERGENCY LIGHTING AND FIRE ALARM DEVICES WHERE NOTED.
- (5) REMOVE EXISTING FEED TO CONDENSING UNIT FOR THE LIEBERT UNIT.
- (6) REMOVE EXISTING BREAKER AND FEED FOR NESLAB CHILLER FOR EXISTING MRI.
- 7) REMOVE EXISTING BREAKER AND FEED FOR EXISTING MRI.



K.P.W. / J.B.P

 $\frac{1}{4}$ " = 1'-0"

13-5456



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EERS • BUILDERS

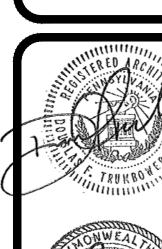
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TRADE EASTERI

ARCHITECTS • ENGINEERS

53 GRAVEL STREET WILKES-BARI





PINNACLE HEALTH
INION DEPOSIT RD., HARRISBURG, PA 17110
JEW POWER & LIGHTING PLAN

Drawn K.P.W. / J.B.P.

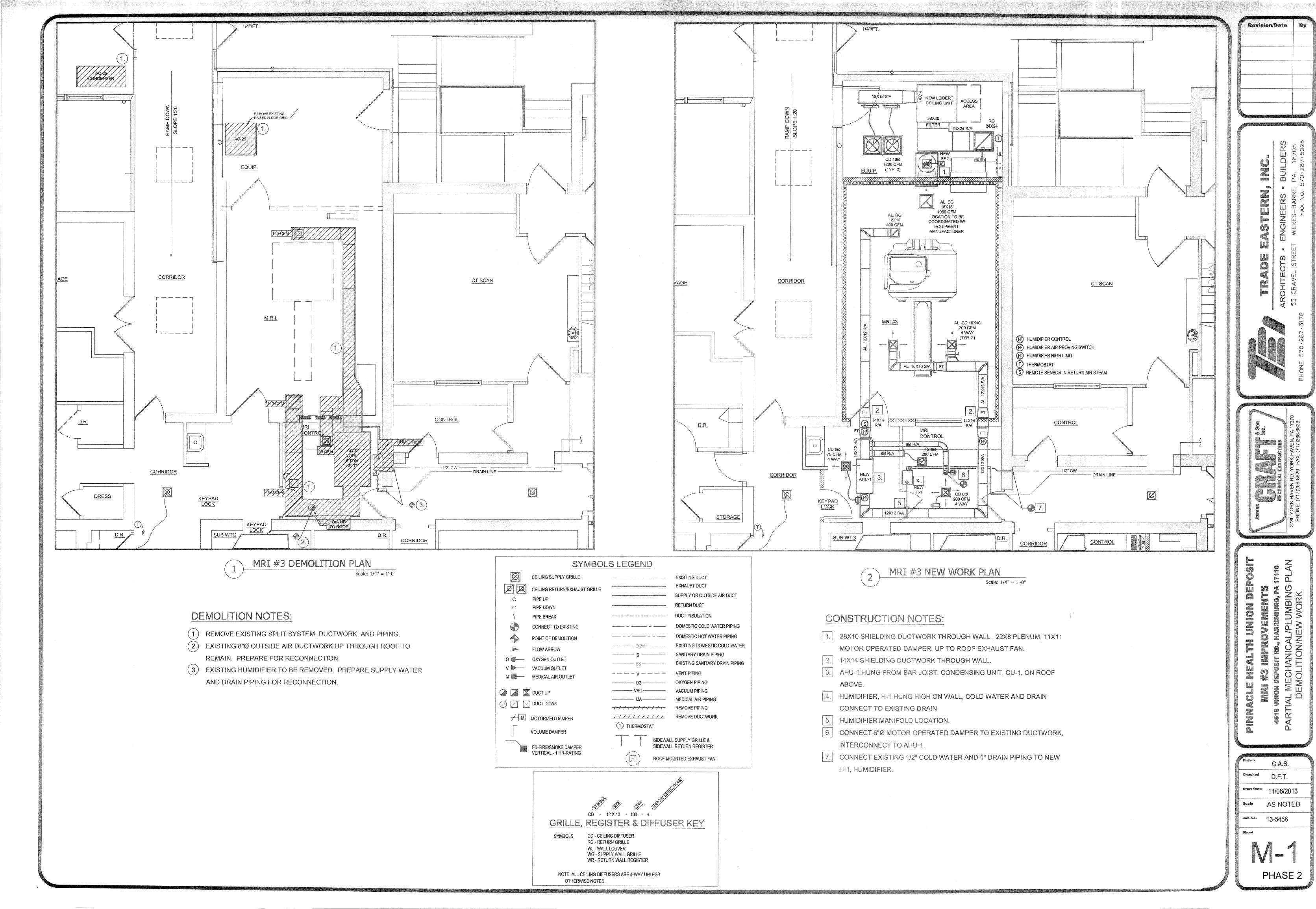
Checked D.F.T.

Start Date 10/07/2013

Scale ½" = 1'-0"

Job No. 13-5456

E-1



BASIC MECHANICAL REQUIREMENTS

GENERAL:

- ALL SYSTEMS ARE SHOWN SCHEMATICALLY. THE EXISTING CONDITIONS MAY DIFFER DUE TO FIELD CONDITIONS. DEVIATIONS SHALL BE REPORTED TO THE PROJECT MANAGER PRIOR TO PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO BE TAKEN IN THE FIELD.
- 2. INSTALL ALL EQUIPMENT AND MATERIAL IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 3. COORDINATE HVAC AND PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES.
- 4. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 5. ALL THE EXISTING SYSTEM PARTS AND EQUIPMENT ARE TO BE TRANSFERRED TO THE OWNER BY THE CONTRACTOR EXCEPT ITEMS DESIGNATED TO BE REMOVED FROM THE PREMISES.
- 6. PATCH OPENINGS CREATED BY JCS IN BUILDING CONSTRUCTION WHERE PIPING, ETC. IS REMOVED. PATCHING SHALL BE THE SAME MATERIAL AS SURROUNDING CONSTRUCTION. FINISH TO MATCH EXISTING TO THE EXTENT POSSIBLE.
- 7. WHERE PIPES OR CONDUIT PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS), SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEMS
- 8. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- 9. FULLY COORDINATE WITH OWNER AND ALL OTHER TRADES, ALL WORK INVOLVING SHUT-DOWN AND INTERRUPTION OF EXISTING SYSTEMS AND SERVICE.
- 10. ALL DUCTWORK AND PIPING ABOVE CEILING AND IN AREAS WITHOUT CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- 11. IT IS THE INTENT THAT ALL EXISTING PIPING, DUCTWORK, FIXTURES AND OTHER EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED OR ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED, RELOCATED, REROUTED OR ABANDONED BY EACH TRADE. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS. HOWEVER THEIR REMOVAL, RELOCATIONS, REROUTING OR ABANDONED SHALL ALSO BE INCLUDED IN THIS CONTRACT.
- 12. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.
- 13. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.

DUCTWORK AND INSULATION:

- ALL DUCTWORK SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED PER SMACNA STANDARDS. SEAL ALL LONGITUDINAL SEAMS AND TRANSVERSE JOINTS WITH SEALANT UNDER UL 181 FOR "AIR-TIGHT" APPLICATION.
- 2. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.
- 3. THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
- 4. SUPPORTS FOR DUCTS SHALL BE INSTALLED AT INTERVALS OF NOT MORE THAN 10 FEET.
- 5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 8M AND SHALL HAVE EXTERNAL INSULATION WITH VAPOR BARRIER JACKETING. FLEXIBLE DUCTWORK SHALL BE CONNECTED TO BRANCHES AND MAINS USING CONICAL FITTINGS AND SHALL NOT EXCEED 8'-0" IN LENGTH INCLUDING ONE ELBOW. FLEXIBLE DUCTWORK SHALL NOT BE USE AS EXHAUST DUCTWORK.
- LOW PRESSURE-DOWNSTREAM OF VAV BOX, SUPPLY DUCTWORK1" W.G. W/1-1/2"-1.5 POUND DUCT WRAP.
 MEDIUM PRESSURE-UPSTREAM OF VAV BOX, SUPPLY DUCTWORK2.5" W.G. W/1-1/2"-1.5 POUND DUCT WRAP.
 RECTANGULAR RETURN DUCTWORK 1" W.G. W/1/2" 2.0 POUND LINER.
- ROUND SUPPLY DUCTWORK UPSTREAM OF VAV -SPIRAL PIPE AND FITTINGS W/1-1/2" DUCT WRAP.
 ROUND SUPPLY DUCTWORK DOWNSTREAM OF VAV -SNAP-LOCK PIPE AND FITTINGS W/1-1/2" DUCT WRAP.
- 8. ALL DUCTWORK WITHIN THE MRI SCAN ROOM TO BE ALUMINUM OR STAINLESS STEEL

GRILLES, REGISTERS AND DIFFUSERS:

- 1. ALL SIZES OF CEILING DIFFUSERS, EXHAUST GRILLES AND RETURN GRILLES SHOWN ON DRAWINGS ARE MODULAR SIZES.
- 2. ALL SIDEWALL MOUNTED SUPPLY GRILLES SHALL BE DOUBLE DEFLECTION UNLESS OTHERWISE NOTED.
- 3. PROVIDE SQUARE TO ROUND ADAPTORS AS NECESSARY.
- 4. ALL CEILING DIFFUSERS SHALL BE 24"X24" LAY-IN MODULES UNLESS OTHERWISE NOTED.

PLUMBING, PIPING AND MATERIALS:

- 1. ALL DOMESTIC WATER SUPPLY PIPING TO BE COPPER TYPE L WITH BRASS OR COPPER FITTINGS AND GRADE 95T SOLDER JOINTS OR PRESS-FIT.
- 2. ABOVE AND BELOW GRADE SANITARY, WASTE, VENT PIPING TO BE: CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT WITH NEOPRENE GASKETS AND STAINLESS STEEL CLAMPS.

PIPING INSULATION:

- 1. PRIOR TO INSULATING, WATER SUPPLY PIPING ONLY SHALL BE HYDROSTATICALLY TESTED AT 100 PSIG WITH NO LOSS OF PRESSURE FOR THREE HOURS.
- 2. INSULATION SHALL CARRY THROUGH ALL WALL AND FLOOR PENETRATIONS AND PIPE HANGERS.
- 3. PROVIDE GALVANIZED METAL SHIELDS FORMED TO FIT THE INSULATION BETWEEN HANGERS AND FINISHED INSULATIONS.

4. INSULATION MUST BE FIRE RATED FOR FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED OF

50 OR LESS. "K" VALUE OF 0.27 BTU PER INCH/H FT2 F°. INSULATE DOMESTIC COLD WATER PIPING WITH 1/2" THICK CELLULAR.

5. OVERSIZED HANGERS SHALL BE INSTALLED TO PROVIDE CONTINUOUS INSULATION.

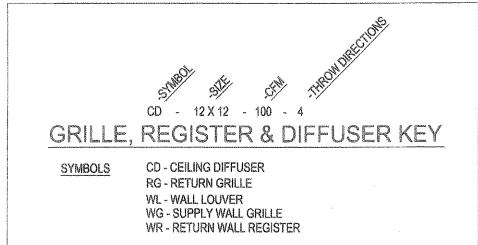
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MBOL CFM		O/A CFM (MIN/MAX)	O/A CFM NOMINAL CAPACITY		MIN CIRCUIT	MOCP	MFGR . MODEL	ELECTRIC HEATING COIL		CVMCA	NOMINAL	LOUTOWN AGE	MIN CIRCUIT	MOCP	MFGR
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SYMBOL	CFM	O/A CFM TO ROOM	NOMINAL CAPACITY	VOLTS/PHASE	FLA (AMPS)	MOCP SIZE(AMPS)	MFGR MODEL	SYMBOL	NOMINAL CAPACITY	VOLTS/PHASE	FLA (AMPS)	MOCP SIZE(AMPS)	MFGR MODEL			
CR-1	2400	15	5 TON	208/3Ø	59.9	80	LIEBERT-MMD60E7CHEHG	CRCU-1	5 TON	208/3Ø	24.1	45	LIEBERT-PFH067A-YL7			

	EXHAUST FAN SCHEDULE											
SYMBOL	CFM	S.P.	FAN TYPE	DRIVE	HP OR WATTS	ROOF OPENING	VOLTS/ PHASE	MFGR MODEL	OPERATING WEIGHT	REMARKS		
EF-1	1060	0.5	CENTRIFUGAL ROOF	DIRECT	0.25 HP	16.5 x 16.5	115/1Ø	S&P RED10MH1AS	50	GRAVITY DMPR ROOF CURB REFER TO NOTE A		

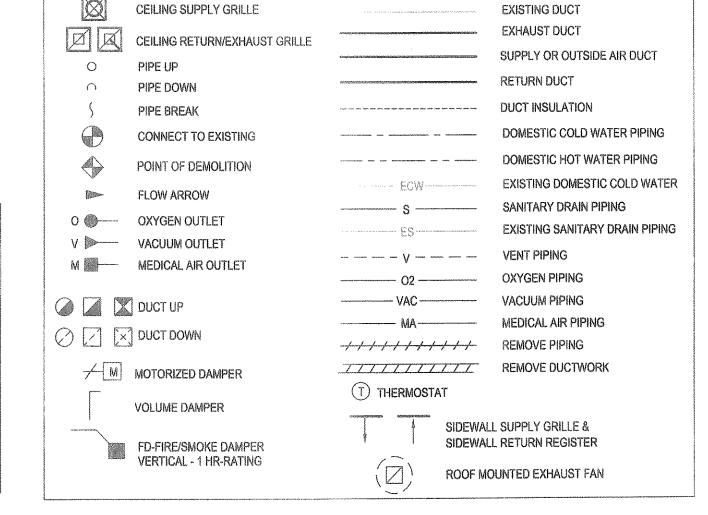
ntiera Rotatora	ECTR	CHU	MIDIF	ER S	CHEDU	
SYMBOL	MIN LBS/HR	MAX LBS/HR	CONN. SIZE	VOLT/ PHASE	RATED CURRENT	MOCF SIZE AM
H-1	2.00	10.00	1/2"	110/1Ø	15.90 A	20.0

NOTES: 12" SINGLE MANIFOLD, MODULATION CONTROL, NORTEC MODEL RH2,
1/2" WATER SUPPLY FROM NEAREST LOCATION.



NOTE: ALL CEILING DIFFUSERS ARE 4-WAY UNLESS

OTHERWISE NOTED.

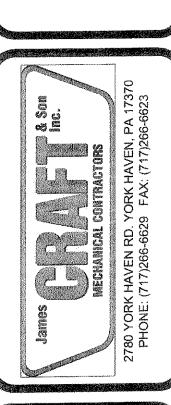


SYMBOLS LEGEND

Revision/Date By

TECTS • ENGINEERS • BU

AF AF S3



MRI #3 IMPROVEMENTS
4518 UNION DEPOSIT RD., MARRISBURG, PA 17116
PARTIAL MECHANICAL/PLUMBING PLA

C.A.S.

Checked D.F.T.

Start Date 11/06/2013

Scale AS NOTED

Job No. 13-5456

Sheet

PHASE 2

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DRAWING CONTENTS

C1 COVER SHEET

GN GENERAL NOTES

SECTION A

A1 EQUIPMENT LAYOUT

A2 MAGNETIC FIELD LAYOUT

3 DETAILS

A4 EQUIPMENT ELEVATIONS

A5 EQUIPMENT ELEVATIONS

TOSHIBA

Leading Innovation >>>

TRISTAN UNION DEPOSIT	X <	DATE	REVISED SHEET(S)
	\bigcirc	09-12-13	09-12-13 ORIGINAL PRELIMINARY DRAWING COMPLETED.
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		11-06-13	\triangle 11-06-13 A1 & A2.
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THESE TOSHIBA PLANS ARE FO INFORMATIONAL PURPOSES ONL

ANY PURPOSE OTHER THAN THA AGREED UPON BETWEEN TOSHIB, AND THE CUSTOMER. THESE SIT PLANS ARE NOT TO BE USEI FOR CONSTRUCTION PURPOSES

DATE: 11-06-13

SCALE: NOT TO SCALE

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V. H.

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PLANNER:

PROJECT NO.

IVIIN	IMUM SITE REQUIREMENTS CI	JECKLIS [
ROJECT:	SITE INSPECTION DATE:	
	DELIVERY DATE: INSPECTED BY:	
OMPLETE T	TO ENSURE A TIMELY AND SUCCESSFUL INSTALLATION, IT IS THIS FORM PRIOR TO INSTALLATION. PLEASE ASSIST US BY R OR YOUR REPRESENTATIVE COMPLETE THE FOLLOWING:	
1.	ALL WALLS, FLOORS, AND CEILINGS FINISHED. WALLS PAIN AND CEILING GRID WORK AND FIXTURES INSTALLED.	TED, FLOORS TILED,
2.	MONOLITHIC OR LAY—IN CEILING? PLEASE CIRCLE ONE. ALI ROOM MUST BE NON—FERROUS.	MATERIALS IN SCAN
3.	DOORS AND WINDOWS INSTALLED AND LOCKABLE. DOORS PRIOR TO DELIVERY BY CUSTOMER OR CONTRACTOR AND EQUIPMENT MOVE—IN. RESERVE SECURE ROOM FOR STORA INSTALLATION.	REINSTALLED AFTER
4.	AREA SET ASIDE FOR EQUIPMENT RIGGING AND MOVE—IN OPENING IN SCAN ROOM). ENVIRONMENTAL ISSUES ADDREST PRIOR TO EQUIPMENT DELIVERY. RECEPTACLE FOR TRASH ENOUGH FOR SHIPPING CRATES IF REQUIRED). EQUIPMENT ARE CLEAR AND OBSTACLE FREE.	SSED AND RESOLVED AVAILABLE (LARGE
5.	ALL CONDUIT, TROUGHING (WITH COVERS), AND BOXES INS DUST FREE). GROMMETED OPENINGS, CHASE NIPPLES, RAC COMPLETE.	
6.	CIRCUIT BREAKER INSTALLED AND INCOMING POWER (PER REQUIREMENTS) OPERATIONAL AND CONNECTED TO ROOM	
7.	LOCATION OF ALL ELECTRICAL BREAKERS IN POWER CHAIN	
8.	ALL CONTRACTOR—INSTALLED STRUCTURAL SUPPORT DEVIC LEVELED ACCORDING TO TAMS SPECIFICATIONS ON SITE PL	ANS.
9.	ALL CONTRACTOR—SUPPLIED CABLES PULLED AND TERMINATION GROUND WIRE IN TROUGHING AS SPECIFIED IN THE TOSHIE	
10.	DUST-FREE ENVIRONMENT IN ALL RELATED ROOMS.	
11.	HEATING AND AIR—CONDITIONING INSTALLED, OPERATIONAL TOSHIBA SITE PLANS. FILTERS TO BE CHANGED 24 HOURS	S BEFORE DELIVERY.
12.	ALL MILLWORK COMPLETE AND INSTALLED. ENSURE THAT N MATERIAL IS USED FOR ANY MILLWORK IN SCAN ROOM.	ION-FERROUS
13.	COMPUTER FLOORING INSTALLED, IF APPLICABLE.	
14.	ALL UNFINISHED AREAS SEALED OFF TO PREVENT DUST C	ONTAMINATION.
15.	RECEPTACLE FOR TRASH AVAILABLE (LARGE ENOUGH FOR REQUIRED).	SHIPPING CRATES IF
16.	"PCDU/VRDU/UPS" INSTALLED AND CONNECTED TO "CB".	
17.	LINE FILTER PANEL INSTALLED IN SCAN ROOM.	
18.	RF ROOM COMPLETE AND TESTED. PROVIDED COPY OF SIGN TO SITE PLANNING.	SNED TEST RESULTS
19.	ALL REQUIRED WAVE GUIDES INSTALLED (INCLUDED MED-C	GASES, IF APPLICABLE).
20.	PLUMBING FOR CHILLER AND CRYO COOLER INSTALLED, FL	USHED, AND TESTED.
21.	SEISMIC REQUIREMENTS, AND REQUIRED SEISMIC ANCHORIN (IF APPLICABLE).	NG DEVICES INSTALLED
22.	NETWORK CONNECTIONS INSTALLED AND OPERATIONAL.	
23.	QUENCH PIPE INSTALLED PER TOSHIBA SPECIFICATIONS (SI USE ONLY STAINLESS STEEL OR ALUMINUM MATERIAL FOR	
24.	SHOWN ON PLAN. ALL APPLICABLE PERMITS OBTAINED.	
25.	MAGNETIC/RF SHIELDING DESIGNED, MODELED, AND BUILT.	
26.	ALL MATERIALS IN SCAN ROOM MUST BE NON-FERROUS.	
	CLEAN WORK AREA SET ASIDE OUTSIDE PROCEDURE ROOM	
27.	AREA.	
28.	EMERGENCY VENT INSTALLED AND OPERATIONAL.	
29.	CUSTOMER SUPPLIED WATER CHILLER SYSTEM INSTALLED A	ND OPERATIONAL.
ATE FOR T	R MUST COMPLETE ALL ITEMS ON THIS CHECKLIST BEFORE S THE EQUIPMENT. IF CUSTOMER FAILS TO DO SO, DELIVERY I TORE, THE EQUIPMENT WARRANTY MAY BE VOIDED.	
GNED TOSH		
DNTRACTOR	R:	
JSTOMER:		

09-05-12

09-05-12

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MUIDE DECIFICATION

NOISE IS GENERATED BY THE COOLING FANS IN EACH UNIT. THE NOISE LEVEL DIFFERS AMONG UNITS. THE REFERENCE NOISE LEVELS FOR UNITS THAT ARE PARTICULARLY LOUD ARE SHOWN BELOW.

REFRIGERATOR COMPRESSOR : 75 dB (A) TRANSFORMER CABINET 65 dB (A) ECO CABINET 64 dB (A) FAN BOX 67 dB (A FILTER PANEL

: 59 dB (A)

CEILING HEIGHT

RECOMMENDED CEILING HEIGHT: 8'-10 5/16" MINIMUM CEILING HEIGHT: 7'-10 1/2"

IF A CEILING HEIGHT OF 8'-10 5/16" IS NOT AVAILABLE, THE SYSTEM CAN STILL BE INSTALLED AS LONG AS THE MINIMUM CEILING HEIGHT IS 7'-10 1/2" AND A SERVICE OPENING IS PROVIDED IN THE CEILING UP TO 8'-10 5/16".

VIBRATION SPECIFICATION

 $0.02 \text{ M/S}^2 \text{ (PEAK TO PEAK)} = 2.0 \text{ GAL OR LESS}$ VIBRATION TESTING (IF REQUIRED) IS RESPONSIBILITY OF CUSTOMER / CONTRACTOR. **GENERAL NOTES**

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.

- A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DESIGNS AND SPECIFICATIONS WITHOUT NOTICE.
- B. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL MATERIALS AND OTHER FEATURES SPECIFIED IN THE TOSHIBA SITE PLANS. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL COUNTERTOPS, SINKS, CASE WORK AND CABINETS
- C. ANY CABINETRY THAT MAY BE REQUIRED TO HOUSE VIDEO RECORDERS, MONITORS KEYBOARDS, OR OTHER ANCILLARY EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- D. THESE TOSHIBA SITE PLANS DO NOT INDICATE EQUIPMENT REQUIREMENTS FOR ITEMS NOT SOLD BY TOSHIBA SUCH AS, PHYSIOLOGICAL MONITORS, LASER CAMERAS, INJECTORS, ETC. SPECIFICATIONS FOR THOSE ITEMS MUST BE OBTAINED FROM THE VENDOR AND INCLUDED IN THE DESIGN TOTALS.
- E. IF REQUIRED, THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN INTERCOM SPEAKER SYSTEM BETWEEN THE EQUIPMENT ROOM, CONTROL ROOM, AND PROCEDURE ROOM.
- F. THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS REQUIRED FOR THE ENGINEERING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS SUCH AS ASBESTOS.
- G. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OPERATING PHONE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION
- H. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE LIGHTING FOR SERVICING OF EQUIPMENT IN ALL AREAS OF THE INSTALLATION.
- I. PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION, THE SITE MUST BE 100% COMPLETE, CLEAN AND FREE OF DUST. CUSTOMER/CONTRACTOR AND TOSHIBA INSTALLATION PROJECT MANAGER MUST COMPLETE A SITE WALK THROUGH 1 WEEK PRIOR TO DELIVERY AND DETERMINE ACCEPTABILITY FOR DELIVERY.
- J. CUSTOMER/CONTRACTOR/ARCHITECT SHALL BE RESPONSIBLE FOR PROVIDING THE ENTIRE NETWORKING AND COMMUNICATION SYSTEMS.
- K. ALL MATERIAL IN SCAN ROOM MUST BE NON-FERROUS.

SPECIFIED IN THE TOSHIBA SITE PLANS.

RF / MAGNETIC SHIELDING

- L. CUSTOMER/CONTRACTOR RESPONSIBLE FOR OBTAINING A SHIELDING VENDOR, TO MODEL, DÉSIGN, AND BUILD REQUIRED MAGNETIC AND RF SHIELDING.
- M. MAGNET FEET MUST BE INSULATED (ISOLATED) FROM RF ENCLOSURE.
- N. GAUSS LINES IN THESE DRAWINGS ARE REPRESENTED WITHOUT MAGNETIC SHIELDING.
- O. RF SHIELDING WEIGHT WILL VARY FROM SITE TO SITE. CUSTOMER'S STRUCTURAL ENGINEER MUST CONSULT WITH RF ENCLOSURE VENDOR FOR RF SHIELDING WEIGHTS.
- P. THE EXISTING AND PROPOSED STRUCTURAL/ENVIRONMENTAL STEEL INFORMATION WITH RELATIONSHIP TO MAGNET MUST BE PROVIDED TO SITE PLANNING FOR REVIEW (FOR ALL WALLS, CEILING AND FLOOR). ALL STRUCTURAL/ENVIRONMENTAL STEEL SHOULD

BE IDENTIFIED INCLUDING, BUT NOT LIMITED TO, RÉBAR, BEAMS, PIPES, DRAINS, AND

- Q. THE MAGNET ENVIRONMENT IS SENSITIVE TO FERROUS MATERIAL, WHICH CAN AFFECT IMAGE QUALITY. THE MOST SENSITIVE AREA IS WITHIN AN 8'X 8' AREA BENEATH THE MAGNET TO A DEPTH OF 1'-4". CONTACT YOUR TOSHIBA INSTALLATION PROJECT MANAGER TO HAVE A STEEL SURVEY COMPLETED TO EVALUATE SITE SPECIFIC CONDITIONS.
- R. MAGNETOMETER SURVEY MUST BE PERFORMED BY TOSHIBA BEFORE SUBMITTING FINAL DRAWINGS (120V POWER IS REQUIRED FOR TOSHIBA TO BEGIN SURVEY. A MINIMUM OF 50°F IS REQUIRED FOR SURVEY AREA).
- THE SHIELDING WORK IS REQUIRED TO SUPPRESS EXTERNAL LEAKAGE OF THE ELECTROMAGNETIC RADIATION GENERATED BY THE SYSTEM.
- T. THE SHIELD MUST ATTENUATE ELECTROMAGNETIC RADIATION IN THE FREQUENCY BAND

OF 63.86 MHz \pm 0.5 MHz BY AT LEAST 90 dB. 90 dB OR MORE FROM 64.36 MHz TO 70 MHz 90 dB OR MORE FROM 70 MHz TO 300 MHz

50 dB OR MORE FROM 300 MHz TO 350 MHz

40 dB OR MORE FROM 350 MHz TO 1 GHz

ANY STEEL USED FOR MAGNETIC SHIELDING.

CODES AND PERMITS

U. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE FEDERAL, STATÉ, AND LOCAL CODES AND ORDINANCES ARE COMPLIED WITH.

SITE CONDITIONS

V. DIMENSIONS TO WALLS AND OR OTHER ROOM FEATURES. EXCEPT FOR NOTED COLUMN AND BEAM CENTER LINES SHALL BE FROM FINISHED SURFACES.

W. PLUMBING IS REQUIRED FOR CERTAIN COMPONENTS OF TOSHIBA EQUIPMENT.

TRANSPORT REQUIREMENTS

- X. EQUIPMENT INGRESS ROUTE MUST BE CHECKED PRIOR TO EQUIPMENT DELIVERY TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED, DIMENSIONS OF CORRIDORS SHOULD BE NO LESS THAN 7'-0" IN WIDTH.
- Y. RECOMMENDED ENTRANCE TO SCAN ROOM SHOULD BE NO LESS THAN 7'-0"W X 8'-6"H FOR EQUIPMENT DELIVERY. SPECIAL ARRANGEMENTS MAY BE NECESSARY FOR MAGNET DELIVERY, INCLUDING A LARGER OPENING IN THE RF SHIELDING.
- Z. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS OF THE

LARGEST AND HEAVIEST ITEMS OF EQUIPMENT FOR THIS INSTALLATION.

CUSTOMER TO PROVIDE THE NECESSARY HVAC REQUIREMENTS FOR THE TOSHIBA EQUIPMENT TO OPERATE PROPERLY.

AMBIENT TEMPERATURE SHOULD BE IN ACCORDANCE WITH THE FOLLOWING FOR CORRECT EQUIPMENT OPERATION AND PATIENT/OPERATOR COMFORT.

HEAT OUTPUT (BTU/H)

ROOM NAME	IN	USE			TEMP. (°F)	HUMIDITY (%RH)		
MRI SCAN ROOM	TOTAL	4,095	TOTAL	1,707	60.8-75.2°	40-60% (NO CONDENSATION)		
MAGNET		4,095		1,707		(110 001102110/111011)		
CONTROL ROOM	TOTAL	2,391	TOTAL	2,391				
HOST CABINET		1,707		1,707		40-75%		
MONITOR		342		342	60.8-86.0°	(NO CONDENSATION)		
CONTROL BOX & CONTROL PAD		342		342				
EQUIPMENT ROOM *	TOTAL	31,053	TOTAL	23,205		40-70% (NO CONDENSATION)		
TRANSFORMER CAB.		3,071		3,071				
REFRIGERATOR		10,578		10,578	68.0-75.2°			
GRADIENT POWER SUPPLY & ECO CAB.		16,379		8,872	00.0 73.2			
FILTER PANEL		683		342				
MAGNET FAN BOX		342		342				
POWER SYSTEMS	TOTAL		TOTAL		* NOTE:			
PCDU		3,669		N/A		AT OUTPUT OF T ROOM MUST		
VRDU (480V)		14,000		N/A	INCLUDE :	SITE SPECIFIC		
VRDU (208V)		14,000		N/A		YSTEM AND ANY ITEMS. SEE SHEET		
TRANSFORMER (FOR VRDU 208V)		4,700		N/A		ADDITIONAL HEAT OF OPTIONAL ITEMS.		
UPS (480V)		32,800		N/A				
PDU OR PCDU		4,100		N/A				
UPS (208V)		35,500		N/A				
PDU OR PCDU		4,100		N/A				

A. A MINIMUM OF 10 AIR CHANGES PER HOUR IS SUGGESTED, CONSULT LOCAL CODE B. AIR SUPPLY DUCTS SHOULD NOT BE PLACED DIRECTLY OVER EXAMINATION TABLES FOR

- C. EQUIPMENT IN ENCLOSED SPACES SUCH AS EQUIPMENT ROOMS, TRANSFORMER CLOSETS AND COMPUTER ROOMS MUST BE PROVIDED WITH ADEQUATE VENTILATION. THE AIRFLOW THROUGH TOSHIBA EQUIPMENT CABINETS IS FROM BOTTOM TO TOP. WHERE POSSIBLE, AIR CONDITIONING SUPPLY OUTLETS SHOULD BE LOCATED AT FLOOR LEVEL WITH RETURN GRILLES IN THE CEILING.
- DEDICATED AIR CONDITIONER REQUIRED FOR SCAN AND EQUIPMENT ROOM. AIR CONDITIONING EQUIPMENT MUST HAVE THE ABILITY TO AUTOMATICALLY RESTART IN THE
- F. THE EQUIPMENT ROOM MUST NOT HAVE SUPPLYING AIR FROM OUTSIDE DUE TO THE
- POSSIBLE RISE OF HUMIDITY. IT IS NOT RECOMMENDED TO INSTALL THE AIR CONDITIONING UNIT OR FAN INSIDE THE CEILING OF THE MRI SCAN ROOM.
- H. THE AIR CONDITIONING SENSOR FOR THE MRI SCAN ROOM SHOULD BE LOCATED IN A RETURN DUCT.

STRUCTURAL NOTES

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.

- THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE STRUCTURE REQUIRED FOR THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL STRUCTURAL ELEMENTS MUST BE SPECIFIED BY A LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.
- B. THE CUSTOMER/CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND PROPOSED DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.
- C. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED THAT ARE CONTRADICTORY TO THOSE SHOWN IN THE
- D. THE DEMOLITION. FABRICATION AND ERECTION OF SUPPORT STRUCTURES FOR TOSHIBA EQUIPMENT SHALL BE PERFORMED BY THE CUSTOMER/CONTRACTOR IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS SET FORTH BY THE STRUCTURAL ENGINEER OF
- E. VANTAGE TITAN MAGNET FEET MUST BE INSULATED/ISOLATED FROM SHIELDED ROOM.
- F. INSULATION/ISOLATION FOR MAGNET FEET TO BE PROVIDED BY CUSTOMER/CONTRACTOR
- G. ALL STRUCTURAL MATERIAL IN SCAN ROOM MUST BE NON-FERROUS.
- H. IT IS RF VENDOR'S RESPONSIBILITY TO ANCHOR THE MAGNET.
- I. THE ENTIRE SCAN ROOM FLOOR TO BE LEVEL WITHIN 1/16".

FLOOR LOADING

09-05-12

J. THE FLOOR MUST SUPPORT 11,904.96 LBS. FOR THE MAGNET, INCLUDING THE COVERS AND THE GRADIENT COIL. THE COMPLETE FLOOR MUST WITHSTAND A MAXIMUM CONCENTRATED MAGNET LOAD OF 3,903.27 LBS. PER SQUARE FOOT (2,976.24 LBS PER MAGNET FOOT). THE FLOOR MUST BE ABLE TO WITHSTAND BOTH THE MAGNET AND THE WEIGHT OF THE MAGNETIC SHIELDING. 05-03-13

SPECIAL NOTES

SPECIAL SEISMIC CERTIFICATION

- WHERE SPECIAL SEISMIC CERTIFICATION IS REQUIRED BY CODE THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR NOTIFYING TOSHIBA'S INSTALLATION PROJECT MANAGER IN WRITING OF THE SEISMIC PERFORMANCE CATEGORY (SPC) RATING OF THE BUILDING IN WHICH TOSHIBA EQUIPMENT IS TO BE INSTALLED. FOR INSTALLATIONS IN A BUILDING RATED SPC3 OR HIGHER TOSHIBA WILL APPLY SPECIAL SEISMIC CERTIFICATION LABELING PER CBC SECTION 1703.5.
- B. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:
- B.A. OSP-0162-10
- PCDU/VRDU GROUP 1 ENCLOSURES (AS APPLICABLE) B.B. OSP-0013-10
- UPS 9390 160 KVA (AS APPLICABLE) B.C. OSP-0088-10 BAT — BC55 (AS APPLICABLE)
- WEIGHTS SHOWN ON THE OSP DOCUMENTS ARE GENERALLY A MAXIMUM AND THE WEIGHTS SHOWN ON THESE SITE PLANS REFLECT THE EQUIPMENT AS ORDERED.

ELECTRICAL REQUIREMENTS FOR MRI SYSTEM WITH VRDU

SUPPLY CONFIGURATION: 3 PHASE DELTA

102 kVA SERVICE

SUPPLY VOLTAGE: 480V - 150 AMP

03-14-12

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ELECTRICAL NOTES

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED.

- A. THESE SITE PLANS ARE INTENDED TO DEPICT ONLY A CONCEPT OF THE ELECTRICAL REQUIREMENTS FOR THE TOSHIBA EQUIPMENT. THE DESIGN OF ALL ELECTRICAL ELEMENTS MUST BE SPECIFIED BY A LICENSED ELECTRICAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATION AND ALL APPLICABLE CODES.
- B. IN ACCORDANCE WITH NEC ARTICLE 517-72(B), THE EQUIPMENT CIRCUIT BREAKER(S) MUST BE LOCATED SO THAT THEY SHALL BE OPERABLE FROM A LOCATION READILY ACCESSIBLE FROM THE CONTROL AREA. IF THIS IS IMPOSSIBLE OR IMPRACTICAL, THE USE OF A SHUNT TRIP TYPE BREAKER WILL BE NECESSARY TO SATISFY THIS REQUIREMENT. THE EMERGENCY OFF BUTTON FOR THE SHUNT TRIP SHOULD BE LOCATED IN THE CONTROL AREA.
- C. THE CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL ALL CIRCUIT BREAKERS, CONDUITS, JUNCTION BOXES, DUCTS, A/C POWER RECEPTACLES, THERMOSTATS, EMERGENCY OFF BUTTONS, AND 12 VOLT POWER, ETC. SPECIFIED HEREIN.
- D. THE TOSHIBA SITE PLANS DO NOT SPECIFY ELECTRICAL REQUIREMENTS FOR EQUIPMENT NOT SOLD BY TOSHIBA. THESE REQUIREMENTS MUST BE OBTAINED BY
- E. TOSHIBA WILL SUPPLY INTERCONNECTING CABLES FOR THE TOSHIBA EQUIPMENT. TOSHIBA WILL INSTALL IF LOCAL TRADE LABOR PERMITS.
- F. TOSHIBA WILL PROVIDE CONNECTING AND FILTER PANELS TO RF PROVIDER FOR INSTALLATION. EXCEPT FOR THEIR USE IN POWER LINE CONNECTIONS TO EQUIPMENT CABINETS, FLEXIBLE CONDUIT SHALL NOT BE USED IN THIS INSTALLATION. ONLY FACTORY CONDUIT ELBOWS SHALL BE USED.
- G. DUCT WORK SHALL BE PROVIDED WITH SWEEP ELBOWS.
- H. ALL JUNCTION BOXES AND DUCTS THAT PENETRATE THE FLOOR SHALL BE WATERPROOF TYPE AND PROVIDED WITH GASKETED WATERPROOF COVERS. ALL FLOOR JUNCTION BOXES AND DUCT COVERS SHALL BE CAPABLE OF SUPPORTING A 200 LB. CONCENTRATED LOAD. ALL MATERIAL IN SCAN ROOM MUST BE NON-FERROUS.
- I. ALL ACCESS HOLES ARE TO BE MADE IN THE EQUIPMENT ROOM RAISED FLOOR PER TOSHIBA SITE PLANS. ACCESS HOLES MUST BE GROMMETED WITH NON-CHAFING MATERIAL SUCH AS RUBBER/PLASTIC OR SLEEVED WITH A SHORT NIPPLE WITH NON-ABRASIVE BUSHINGS.
- J. ALL CHASE OPENINGS SHALL HAVE PLASTIC/NYLON BUSHINGS.
- K. ALL DUCT WORK SHALL HAVE A MINIMUM OF THREE COMPARTMENTS. TRANSITIONS SUCH AS HORIZONTAL TO VERTICAL WALL DUCT OR JUNCTION BOXES MUST BE REVIEWED ON AN INDIVIDUAL BASIS WITH THE INSTALLATION PROJECT MANAGER. LOCAL CODES. MAY REQUIRE THE USE OF CROSS-OVER TUNNELS OR OTHER SUCH DEVICES TO MAINTAIN CABLE SEPARATION.
- L. ALL DUCT AND CONDUITS SHALL BE ELECTRICALLY BONDED AS A GROUNDING PATH IN ACCORDANCE WITH NEC ARTICLE 517-13(B).
- M. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL GREENLEE NYLON MEASURING PULL STRING OR EQUIVALENT IN ALL CONDUITS AND CLOSED DUCT WORK.
- N. CONDUIT RUNS SHOWN ARE SCHEMATIC ONLY. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
- O. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90° BENDS.
- P. 110VAC GROUNDED OUTLETS SHALL BE PROVIDED ON WALLS NEAR THE TOSHIBA EQUIPMENT FOR USE DURING EQUIPMENT SERVICE.
- Q. CUSTOMER/CONTRACTOR MUST SUPPLY AND INSTALL ALL INCOMING POWER CABLES FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CONNECTION POINT. CABLE TYPE MUST BE MT. MULTI-STRAND COPPER - NO ALUMINUM IS PERMITTED. CABLE SIZE MUST BE IN ACCORDANCE WITH TOSHIBA POWER QUALITY REQUIREMENTS.
- R. CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE TO ENCLOSE INCOMING POWER CABLES IN FLEXIBLE WATER TIGHT CONDUIT FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CABINET(S).
- S. ANY CHANGES IN THE LOCATION OR TYPE OF CONDUIT, DUCT WORK, JUNCTION BOXES, ETC. MUST BE SUBMITTED IN WRITING TO THE TOSHIBA INSTALLATION PROJECT
- MANAGER FOR APPROVAL. T. A SEPARATE CIRCUIT, FED FROM THE FACILITY RADIOLOGY PANEL OR A MAIN SERVICE
- PANEL IS REQUIRED. USE OF A SUB PANEL WITH LOADS SUCH AS ELEVATORS, HVAC, MOTORS, ETC. IS NOT PERMITTED. 09 - 05 - 100

RF ROOM GROUNDING

- CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING UNLESS OTHERWISE NOTED,
- A. WHEN INSTALLED BY THE RF/STEEL ROOM MANUFACTURER, THE RF ROOM MUST BE TOTALLY ISOLATED FROM GROUND. TO MAINTAIN THIS ISOLATION, NO CONDUCTIVE CONNECTIONS (i.e. ELECTRICAL CONDUITS, PLUMBING, HVAC DUCTS, OR ANY CONDUCTIVE BUILDING MATERIAL) CAN BE MADE TO THE OUTSIDE OF THE RF ROOM. TO KEEP THIS INTEGRITY, ALL ÁBOVE MENTIONED CONNECTIONS SHOULD BE MADE VIA DIELECTRIC CONNECTORS. A DIELECTRIC CONNECTOR IS A NON-FERROUS SLEEVE, NIPPLE, GASKET, ETC. THIS CONNECTOR MUST BE INSTALLED IN ALL HVAC DUCT, ELECTRICAL CONDUIT, AND ANY PIPE CONNECTION TO THE RF ROOM. THE LOCATION OF THE DIELECTRIC IS TO BE OUTSIDE OF THE RF ROOM, AS CLOSE TO THE WALL OR CEILING OF THE RF ROOM AS PRACTICAL.
- B. WHILE THE RF ROOM IS UNDER CONSTRUCTION, A BATTERY OPERATED BELL SHOULD BE TEMPORARILY MOUNTED TO THE ROOM. THE RF ROOM IS TO BE USED AS A GROUND FOR THE BELL. IF ANY CONDUCTIVE MATERIAL CONTACTS THE RF ROOM, THE BELL WILL SOUND ALERTING THE FOREMAN AND/OR CONTRACTOR WHO GROUNDED
- C. DURING THE REMAINING CONSTRUCTION, A TEMPORARY #1 SAFETY GROUND SHOULD BE ATTACHED TO THE RF ROOM UNTIL THE "PCDU/VRDU/UPS" IS INSTALLED. AT THAT TIME, A PERMANENT #1 OR LARGER GROUND WIRE SHOULD BE INSTALLED BETWEEN THE MAGNET ROOM AND THE SECONDARY GROUND BUS OF THE POWER SOURCE. REFER TO DETAIL 4 SHEET E3 (FINAL DRAWINGS ONLY).
- D. RF ROOM MUST BE ACCESSIBLE FROM ABOVE FOR ENGINEERS TO FIND AND CORRECT RF GROUNDS IN ROOM. 01-10-

PLUMBING NOTE

A. IT IS THE CUSTOMER'S RESPONSIBILITY TO SUPPLY AND INSTALL THE CHILLED WATER SYSTEM PER TOSHIBA SPECIFICATIONS.

01 - 10 - 10

NOT TO SCALE PLANNER: V. H.

THESE TOSHIBA PLANS ARE FO

AND SHALL NOT BE USED FOI

AGREED UPON BETWEEN TOSHIB

AND THE CUSTOMER. THESE SIT

PLANS ARE NOT TO BE USE

FOR CONSTRUCTION PURPOSES

11-06-13

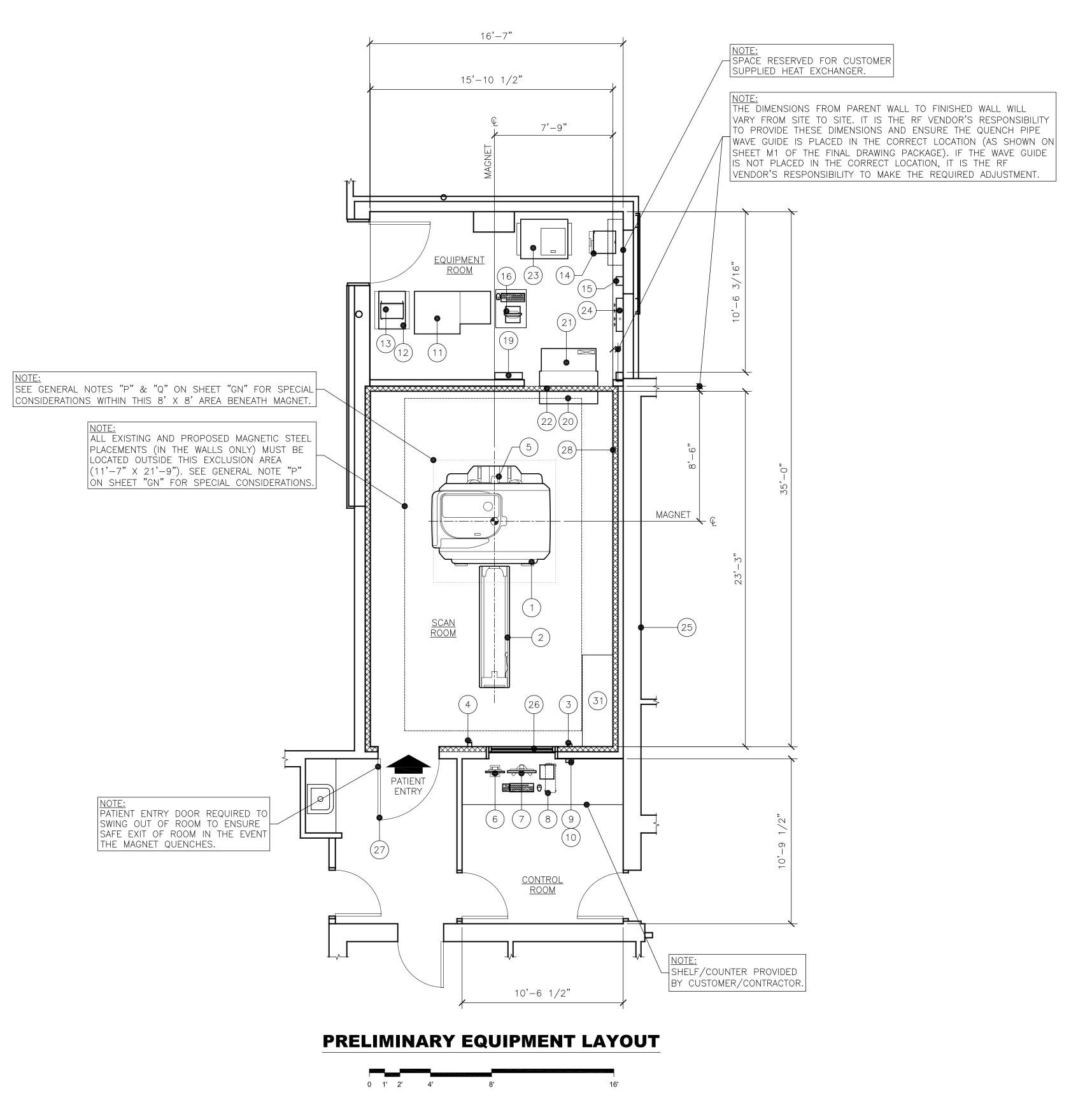
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INFORMATIONAL PURPOSES ON

ANY PURPOSE OTHER THAN TH

PROJECT NO. 130013978MRP2

ALL INFORMATION ON THIS SHEET IS TO BE CONSIDERED PRELIMINARY AND TENTATIVE AND IS SUBJECT TO CHANGE OR REVISION WITHOUT PRIOR NOTICE. THIS INFORMATION IS FOR PLANNING PURPOSES ONLY.



EXISTING/PROPOSED STRUCTURAL STEEL SHIELDING LOCATIONS WERE NOT SPECIFIED AT THE TIME

THESE SITE PLANS WERE GENERATED. THE EXISTING AND PROPOSED STRUCTURAL/ENVIRONMENTAL STEEL INFORMATION WITH RELATIONSHIP TO MAGNET MUST BE PROVIDED TO SITE PLANNING FOR REVIEW (FOR ALL WALLS, CEILING AND FLOOR). ALL STRUCTURAL/ENVIRONMENTAL STEEL SHOULD BE IDENTIFIED INCLUDING, BUT NOT LIMITED TO, REBAR, BEAMS, PIPES, DRAINS, AND ANY STEEL USED FOR MAGNETIC

SHIELDING. THE MAGNET ENVIRONMENT IS SENSITIVE TO FERROUS MATERIAL, WHICH CAN AFFECT IMAGE QUALITY. THE MOST SENSITIVE AREA IS WITHIN AN 8'X 8' AREA BENEATH THE MAGNET TO A DEPTH OF 1'-4". THESE SITE PLANS MUST BE CONSIDERED TENTATIVE UNTIL THIS INFORMATION IS PROVIDED. THE FINAL SITING OF THE MAGNET AND EQUIPMENT MAY BE AFFECTED BY ANY EXISTING/PROPOSED STRUCTURAL STEEL OR STEEL SHIELDING. THE CUSTOMER IS RESPONSIBLE FOR ANY ASSOCIATED

CONSTRUCTION THAT MAY RESULT.

ALL MATERIAL IN SCAN ROOM MUST BE NON-FERROUS

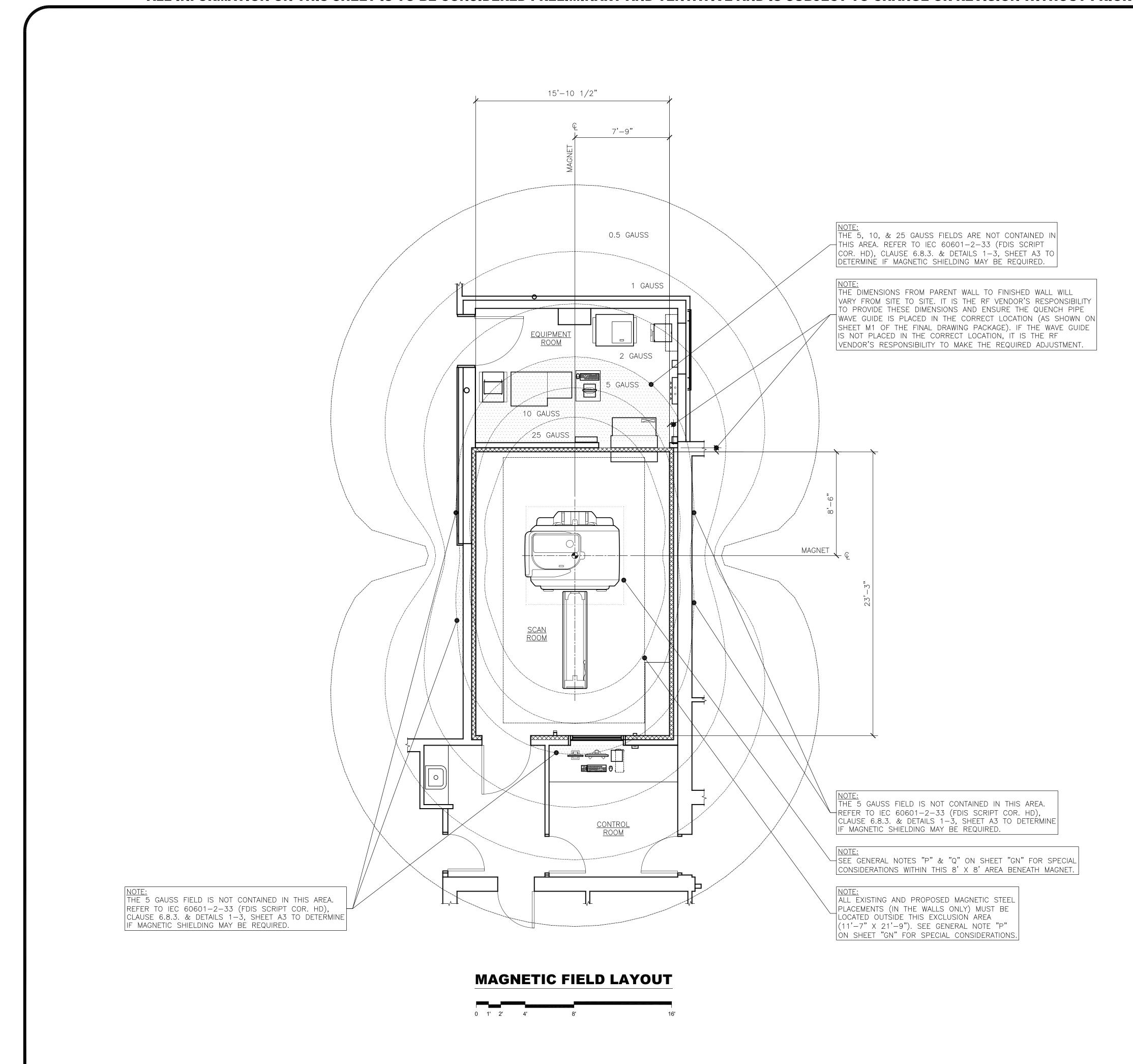
SITE PLAN APPROVAL

PLEASE REVIEW, SIGN AND RETURN THIS SET TO HEADQUARTERS BEFORE FINAL PLANS. IF THERE ARE ANY CHANGES, PLEASE INDICATE ACCORDINGLY ON THIS SET.

CUSTOMER:	DATE:
SALES:	DATE:
I.P.M.:	DATE:

		EQUIPMENT LEGEND							4
ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.				
1	MAG	1.5 TESLA MAGNET	4.095	11,905	1 A4				
2	PCH	PATIENT COUCH	_	706	1 A4				
3	OXMS	OXYGEN SENSOR	_	1	4 A5			e N	
4	SUVS	SUPERVISORY UNIT SWITCH	_	1	7 A5			Innovation	
5	CAM	PATIENT OBSERVATION SYSTEM CAMERA (ON MAGNET)	_	_	<u>-</u>				
6	POSM	PATIENT OBSERVATION SYSTEM MONITOR	120	10	2 A5				
7	CON	WIDESCREEN LCD, CONTROL PAD, SPEAKER, AND CONTROL BOX	684	34	1 A5			eading-	
8	HOST	HOST CABINET	1,707	47	1 A5				
9	ОХММ	OXYGEN MONITOR	_	1	4 A5		ヹ		Γ
10	FSB	EMERGENCY VENTILATION FAN SWITCH BOX	100	3	<u>-</u>		>		<u> </u>
11	GECO	GRADIENT POWER SUPPLY AND ECO CABINET	16,379	2,161	2 A4				
(12)	TFR	TRANSFORMER CABINET	3,071	574	3 A4	TED. LAYOUT.	LAYOUT		
(13)	SUVU	SUPERVISORY UNIT (MOUNTED ON TRANSFORMER CABINET)	0	27	6 A5				
14	RFG	REFRIGERATOR CABINET	10,578	221	3 A5	PTION ING COMPL EQUIPMENT	EQUIPMENT		
(15)	FLS	FLOW SWITCH	_	12	-	DESCRIPTION DRAWING C RAL & EQUIF	AL &		
16	INV	INNERVISION PC (ON CART SUPPLIED BY CUSTOMER / CONTRACTOR)	500	22	5 A5	DES PRELIMINARY D ARCHITECTURAL	ARCHITECTURAL		
(17)	SPK1	CONTROL ROOM SPEAKER (NOT SHOWN)	_	_	$\left \begin{array}{c} - \\ - \end{array}\right $	PRELIN	ARCHI		
(18)	SPK2	SCAN ROOM SPEAKER (NOT SHOWN)	_	_	$\left \begin{array}{c} - \\ - \end{array}\right $	ORIGINAL	UPDATED		
19	MFB	MAGNET FAN BOX	342	38	9 A5		13 UPI		_
20	FPC1	FILTER PANEL COVER (SCAN ROOM SIDE)	_	40	$\frac{4}{A4}$	DATE 09-12-13 10-25-13	1-06-		
21)	FPC2	FILTER PANEL COVER (EQUIPMENT ROOM SIDE)	_	93	5 A4	REV 0	1		
ITEM	SYM.	SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.	DEPOSIT	- TITAN)	. RD.) - -
IIEM	ELEC. SYM.	ITEM DESCRIPTION — SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR LINE FILTER PANEL	BTU/HR 683	WEIGHT 265	REF.	UNION DI MRI #3	ROOM -	S OLD POST	J.,
(22)	VRDU	VOLTAGE REGULATION DISTRIBUTION UNIT			8 A5	A V	CAN	808	
(23) (24)	MFOLD		14,000	1,778 80	6	TRISTA	S	2808	
2+)	WII OLD	MANITOLD (FILLD VEINT LOCATION)			A4	THESE TOSH INFORMATION AND SHALL ANY PURPOS	NAL PUR NOT BE	POSES ON E USED F	FOI NL`
ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.	AGREED UPO AND THE CU PLANS ARE FOR CONST	ON BETW JSTOMER : NOT T	EEN TOSH . THESE S O BE US	HIBA SITE SEC
(25)	WALL	PARENT WALL	_	_	<u>-</u>	DATE:)6–13	
<u></u>	RFW	RF WINDOW-SITE SPECIFIC PER ROOM CONDITIONS	_	_		SCALE:	1/4"	= 1'-0"	
<u>(27)</u>	RFD	RF SHIELDED DOOR-SITE SPECIFIC PER ROOM CONDITIONS	_	_	<u>-</u>	PLANNER:		V. H.	
(28)	RFS	RF SHIELDED ENCLOSURE—SITE SPECIFIC PER ROOM CONDITIONS (THICKNESS VARIES PER MANUFACTURER)	_	_		SID:	30	008347	
<u>(29)</u>	HVAC	AIR CONDITIONING UNIT (NOT SHOWN)	_	_		PROJECT N	10.		
(30)	СВ	CIRCUIT BREAKER (NOT SHOWN)	_	_		13001		8MRF	>
	NFCC	NON-FERROUS COIL CABINET	_	_					
(31)		The second secon			1 \ _ /			-	

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RF / MAGNETIC SHIELDING

- A. CUSTOMER/CONTRACTOR RESPONSIBLE FOR OBTAINING A SHIELDING VENDOR, TO MODEL, DESIGN, AND BUILD REQUIRED MAGNETIC AND RF SHIELDING.
- B. MAGNET LEGS MUST BE INSULATED (ISOLATED) FROM RF ENCLOSURE.
- . GAUSS LINES IN THESE DRAWINGS ARE REPRESENTED WITHOUT MAGNETIC SHIELDING.
- D. RF SHIELDING WEIGHT WILL VARY FROM SITE TO SITE. CUSTOMER'S STRUCTURAL ENGINEER MUST CONSULT WITH RF ENCLOSURE VENDOR FOR RF SHIELDING WEIGHTS.
- E. THE EXISTING/FUTURE STEEL INFORMATION WITH RELATIONSHIP TO MAGNET MUST BE PROVIDED TO SITE PLANNING FOR REVIEW (ALL SIDES OF THE ROOM, INCLUDING CEILING AND FLOOR).
- ANY STEEL BENEATH THE MAGNET MUST BE LOCATED A MINIMUM OF 4'-7" FROM MAGNET ISOCENTER. SOME STEEL REBAR COULD BE ACCEPTABLE, CONSULT WITH TOSHIBA INSTALLATION PROJECT MANAGER FOR APPROVAL OF ANY STEEL IN THIS CRITICAL AREA.
- G. MAGNETOMETER SURVEY MUST BE PERFORMED BY TOSHIBA BEFORE SUBMITTING FINAL DRAWINGS (120V POWER IS REQUIRED FOR TOSHIBA TO BEGIN SURVEY. A MINIMUM OF 50°F IS REQUIRED FOR SURVEY AREA).
- . THE SHIELDING WORK IS REQUIRED TO SUPPRESS EXTERNAL LEAKAGE OF THE ELECTROMAGNETIC RADIATION GENERATED BY THE SYSTEM.
- THE SHIELD MUST ATTENUATE ELECTROMAGNETIC RADIATION IN THE FREQUENCY BAND OF $63.86~\mathrm{MHz}~\pm~0.5~\mathrm{MHz}$ BY AT LEAST 90 dB.

90 dB OR MORE FROM 64.36 MHz TO 70 MHz 80 dB OR MORE FROM 70 MHz TO 300 MHz 50 dB OR MORE FROM 300 MHz TO 350 MHz 40 dB OR MORE FROM 350 MHz TO 1 GHz

IF A CEILING HEIGHT OF 8'-10 5/16" IS NOT AVAILABLE, THE SYSTEM CAN STILL BE INSTALLED AS LONG AS THE MINIMUM CEILING HEIGHT IS 7'-10 1/2" AND A SERVICE OPENING IS PROVIDED IN THE CEILING UP TO 8'-10 5/16".

MAGNET LEGS MUST BE INSULATED (ISOLATED) FROM RF ENCLOSURE.

TOSHIBA eading Innovation

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I KISTAN ONION DEPOSIT	60 📎	09-12-13 ORIGINAL PRELIMINARY DRAWING COMPLETED.	COMPLETED.	>
	A 10	\triangle 10-25-13 UPDATED ARCHITECTURAL & EQUIPMENT LAYOUT.	IPMENT LAYOUT.	>
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FOR REFERENCE ONLY. NOT TO BE U	SED	USED FOR CONSTRUCTION PURPOSES.	PURPOSES.	_

THESE TOSHIBA PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT AGREED UPON BETWEEN TOSHIBA AND THE CUSTOMER. THESE SITE PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

DATE: 11-06-13SCALE: 1/4" = 1'-0"PLANNER: V. H.

SID: 30008347

PROJECT NO. **130013978MRP2**

A2

ALL INFORMATION ON THIS SHEET IS TO BE CONSIDERED PRELIMINARY AND TENTATIVE AND IS SUBJECT TO CHANGE OR REVISION WITHOUT PRIOR NOTICE. THIS INFORMATION IS FOR PLANNING PURPOSES ONLY. GAUSS MEASUREMENT VALUES GAUSS MEASUREMENT VALUES NOTE: SEE SHEET GN FOR SHIELDING REQUIREMENTS SHIELDING REQUIREMENTS 0.5 | 5 | 10 | 20 | 50 | 100 CONSTRUCTION PURPOSES 9'-6 1/2" 9'-6 1/2" 8'-2 5/8" 8'-2 5/8" 11'-8 7/16" 11'-8 7/16" 13'-9" 13'-9" SEE GENERAL NOTES "P"&"Q" SEE GENERAL NOTES "P"&"Q" 20'-7 1/2" 16'-3 3/8" 16'-3 3/8" 20'-7 1/2" ON SHEET "GN" FOR SPECIAL ON SHEET "GN" FOR SPECIAL CONSIDERATIONS WITHIN THIS CONSIDERATIONS WITHIN THIS 8' X 8' AREA BENEATH 8' X 8' AREA BENEATH 30'-4 9/16" 30'-4 9/16" 24'-11 1/16" 24'-11 1/16" MAGNET. FRINGE FIELD MEASUREMENTS (PLAN VIEW) FRINGE FIELD MEASUREMENTS (ELEVATION VIEW) 09-05-12 09-05-12 EXAMPLE UNIT (NOTE A) (NOTE B) CCELERATING TUBE LINEAR ACCELERATORS 0.5 30'-4 9/16 THESE SITE PLANS WERE GENERATED. THE EXISTING AND PROPOSED 0.5 30'-4 9/16 X-RAY SYSTEMS STRUCTURAL/ENVIRONMENTAL STEEL INFORMATION WITH RELATIONSHIP TO MAGNET MUST BE NON-SHIELDED PROVIDED TO SITE PLANNING FOR REVIEW (FOR ALL WALLS, CEILING AND FLOOR). ALI CT, GAMMA CAMERA, PET SYSTEMS 30'-4 9/16 0.5 PHOTO-MULTIPLIER TUBE STRUCTURAL/ENVIRONMENTAL STEEL SHOULD BE IDENTIFIED INCLUDING. BUT NOT LIMITED REBAR, BEAMS, PIPES, DRAINS, AND ANY STEEL USED FOR MAGNETIC SHIELDING. THE MAGNET PACEMAKERS** 16'-3 3/8' ENVIRONMENT IS SENSITIVE TO FERROUS MATERIAL, WHICH CAN AFFECT IMAGE QUALITY. THE 5'-10 9/16" K-RAY TUBE CT, X-RAY SYSTEMS 10 13'-9" WITH GRADIENT COIL MOST SENSITIVE AREA IS WITHIN AN 8'X 8' AREA BENEATH THE MAGNET TO A DEPTH OF 1'-4". THESE SITE PLANS MUST BE CONSIDERED TENTATIVE UNTIL THIS INFORMATION MONOCHROME MONITORS (SHIELDED) 16'-3 3/8" 4'-9 11/16" PROVIDED. THE FINAL SITING OF THE MAGNET AND EQUIPMENT MAY BE AFFECTED BY ANY MONOCHROME MONITORS WITHOUT GRADIENT COIL EXISTING/PROPOSED STRUCTURAL STEEL OR STEEL SHIELDING. THE CUSTOMER IS 20'-7 1/2 (UNSHIELDED) RESPONSIBLE FOR ANY ASSOCIATED CONSTRUCTION THAT MAY RESULT. **NO** #33 COLOR MONITORS (SHIELDED) 24'-11 1/16 30'-4 9/16' COLOR MONITORS (UNSHIELDED) 0.5 10 MULTIFORMAT CAMERAS 13'-9" 5'-10 1/2" 5'-8 1/2" 20'-7 1/2" ULTRASONIC DIAGNOSTIC SYSTEMS ELECTROCARDIOGRAPHS 20'-7 1/2" 20'-7 1/2" ELECTROENCEPHALOGRAPHS 11'-8 7/16 DXYGEN MONITOR INCLUDED IN THE MRI SYSTEM 20 11'-8 7/16 INCLUDED IN THE MRI SYSTEM SUPERVISORY UNIT 100 FILTER PANEL INCLUDED IN THE MRI SYSTEM 8'-7" 16'-3 3/8" GRADIENT POWER SUPPLY INCLUDED IN THE MRI SYSTEM TRANSFORMER CABINET 16'-3 3/8" INCLUDED IN THE MRI SYSTEM WITH VACUUM PUMP UNIT) 16'-3 3/8" CO CABINET INCLUDED IN THE MRI SYSTEM INCLUDED IN THE MRI SYSTEM 16'-3 3/8" HOST CABINET MAGNETIC TAPES, FLOPPY DISKS MAGNETIC RECORDING MEDIA 13'-9" 4'-9 11/16" THESE TOSHIBA PLANS ARE FO BANK, CREDIT CARDS 11'-8 7/16 MAGNETIC RECORDING MEDIA 20 6'-5 13/16" WITHOUT GRADIENT COIL INFORMATIONAL PURPOSES ON AND SHALL NOT BE USED FO 10'-9 15/16 WATCHES 30 ANY PURPOSE OTHER THAN TH 5'-10 9/16" AGREED UPON BETWEEN TOSHIB WITH GRADIENT COIL AND THE CUSTOMER. THESE SI'PLANS ARE NOT TO BE USE THE DEVICES LISTED ABOVE ARE AFFECTED BY MAGNETIC FIELDS AND MAY NOT OPERATE FOR CONSTRUCTION PURPOSES PROPERLY NEAR THE GANTRY. 11-06-13 A. MAXIMUM MAGNETIC FIELD INTENSITY AT WHICH THE UNIT OPERATES NORMALLY. THESE VALUES INCLUDE THE EARTH'S MAGNETIC FIELD (APPROXIMATELY 0.4 GAUSS). IF THE DIRECTION IN WHICH THE GANTRY IS INSTALLED IS CLOSE TO THAT OF THE EARTH'S AS NOTED 6'-6 3/4" MAGNETIC FIELD, THE MAXIMUM MAGNETIC INTENSITY (INCLUDING THE EARTH'S MAGNETIC PATH "A" FIELD) OF EACH UNIT MAY EXCEED THE LIMIT. IN THIS SITUATION, THE INSTALLED DIRECTION MUST BE CHANGED. OTHERWISE, DO NOT ALLOW ANY EQUIPMENT TO BE SET PLANNER: V. H. UP BEYOND ALLOWABLE LIMIT OR PERSONS TO ENTER THIS AREA. FOR DELIVERY: CONSULT RIGGING CONTRACTOR B. MINIMUM DISTANCE FROM THE CENTER OF THE MAGNET FOR NORMAL OPERATION. FOR HEIGHT REQUIREMENTS FOR MATERIALS C. SPECIAL CAUTION IS REQUIRED FOR ELECTRON MICROSCOPES BECAUSE THEY CAN BE USED TO TRANSPORT MAGNET TO FINAL 30008347 AFFECTED BY MAGNETIC FIELD VARIATIONS AS SMALL A FEW MILLIGAUSS. LOCATION. IF ORIENTATION IS NOT CHANGED AT THE CORNER, 6'-6 3/4" WIDTH IS SUFFICIENT FOR CASTER HEIGHTS WILL VARY. PROJECT NO. PATH "A" AND 6'-10 11/16" FOR PATH "B". ALL EXISTING AND PROPOSED MAGNETIC STEEL PLACEMENTS (IN THE WALLS ONLY) CARRYING IN WEIGHT WITHOUT GRADIENT |130013978MRP2 COIL, COVER IS 8,800 LBS (FILLED). MUST BE LOCATED OUTSIDE THIS EXCLUSION AREA $(11'-7" \times 21'-9")$.

REED RELAY

EFFECTS OF THE MAGNETIC FIELD

SCALE: NOT TO SCALE

09-05-12

MAGNET ASSEMBLY FOR CARRYING IN

STEEL EXCLUSION ZONE OF MAGNET

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

09-05-12

MINIMUM CORRIDOR WIDTH

01-10-11

FOR MAGNET INGRESS

SCALE: 1/2" = 1'=0"

