



DRAWING CONTENTS

- C1 - COVER SHEET
- GN1 - GENERAL NOTES PAGE 1
- GN2 - GENERAL NOTES PAGE 2

SECTION A

- A1 - EQUIPMENT LAYOUT
- A2 - EQUIPMENT DETAILS
- A3 - EQUIPMENT DETAILS

SECTION S

- S1 - STRUCTURAL LAYOUT
- S2 - STRUCTURAL DETAILS

SECTION E

- E1 - ELECTRICAL LAYOUT
- E2 - ELECTRICAL SCHEMATIC
- E3 - ELECTRICAL DETAILS
- E4 - CABLE LENGTH DIAGRAM
(FOR INTERNAL USE ONLY)



INT. V.H. L.B.C.

REVISED SHEET(S) ORIGINAL FINAL DRAWINGS COMPLETED. A1, S1, E1, E2.

DATE 07-19-13 07-22-13

REV.

PINNACLE TRISTAN ASSOCIATES

AQUILION - VELOCT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

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: 07-22-13

SCALE: NOT TO SCALE

DRAWN: L.B.C.

SID: 30008345

PROJECT:
130013744CTF1

C1

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

GENERAL NOTES

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

GENERAL

A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DRAWINGS AND SPECIFICATIONS WITHOUT NOTICE.

CODES AND PERMITS

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

C. THE SITE MUST BE 100% COMPLETE, CLEAN, AND FREE OF DUST, PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION COMMENCEMENT. CUSTOMER/CONTRACTOR AND TOSHIBA INSTALLATION PROJECT MANAGER MUST COMPLETE A SITE WALK THROUGH 1 WEEK PRIOR TO DELIVERY TO DETERMINE ACCEPTABILITY FOR DELIVERY OF TOSHIBA EQUIPMENT.

D. SUPPLY/INSTALL ANY CABINETS REQUIRED TO HOUSE ANCILLARY EQUIPMENT SUCH AS RECORDERS, MONITORS, AND KEYBOARDS.

E. PROVIDE ADEQUATE VENTILATION WITHIN CABINETS AND INSTALL AXIAL FANS ON THE TOP, SIDE, OR BACK OF CABINETS, IF REQUIRED.

F. SPECIFICATIONS FOR EQUIPMENT ITEMS NOT PURCHASED THROUGH TOSHIBA MUST BE OBTAINED FROM THE VENDOR/MANUFACTURER AND INCLUDED IN THE DESIGN TOTALS.

G. DESIGN, FABRICATE, AND INSTALL MEDICAL GAS PEDESTAL, IF REQUIRED. CONSULT WITH TOSHIBA INSTALLATION PROJECT MANAGER FOR SUITABLE LOCATIONS.

H. AN OPERATING PHONE MUST BE AVAILABLE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION BEGINS.

I. PROVIDE ADEQUATE LIGHTING FOR SERVICING OF EQUIPMENT IN ALL AREAS OF THIS INSTALLATION.

J. ANY AND ALL COSTS REQUIRED FOR THE ENGINEERING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS, SUCH AS ASBESTOS. IN THE EVENT SUCH IS DISCOVERED PRIOR TO OR DURING INSTALLATION OF THIS EQUIPMENT.

K. SUPPLY/INSTALL ALL MATERIALS SPECIFIED IN THE TOSHIBA SITE PLANS, SUCH AS CASEWORK, COUNTERTOPS, CABINETS, AND SINKS.

PLUMBING

L. PLUMBING IS NOT REQUIRED FOR THIS TOSHIBA EQUIPMENT.

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

SITE CONDITIONS

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

O. CT GANTRY SHOULD NOT BE INSTALLED WITHIN 0.5 MAGNETIC GAUSS FIELD.

P. THE WINDOW FOR MONITORING THE SCAN ROOM SHOULD BE IN FRONT OR ON THE SIDE OF THE CONSOLE DESK. THE LOWEST WINDOW FRAME SHOULD BE 36" ABOVE THE FLOOR FOR EASY PATIENT MONITORING.

Q. A DOOR BETWEEN THE SCAN AND CONTROL ROOM IS RECOMMENDED.

R. THE INSTALLATION ALTITUDE SHOULD BE NO MORE THAN 3,280 FT. (1,000 M) ABOVE SEA LEVEL. PRIOR CONSULTATION IS REQUIRED FOR INSTALLATIONS HIGHER THAN 3,280 FT. (1,000 M).

TOSHIBA EQUIPMENT TRANSPORT REQUIREMENTS

S. EQUIPMENT INGRESS ROUTE MUST BE CHECKED TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED, PRIOR TO EQUIPMENT DELIVERY. DIMENSIONS OF DOORWAYS SHOULD BE NO LESS THAN 4'-0" CLEAR IN WIDTH. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS PERTAINING TO THE LARGEST AND HEAVIEST COMPONENTS FOR THIS INSTALLATION (SEE DETAIL #3 / SHEET GN2).

NETWORKING REQUIREMENTS

T. NETWORK REQUIREMENTS WILL VARY BY SITE. TOSHIBA REPRESENTATIVE WILL REQUIRE DICOM DEVICE INFORMATION, ADDITIONAL I.P. ADDRESSES, AND I.T. DEPARTMENT CONTACT INFORMATION PRIOR TO INSTALLATION.

REVISED: 07-07-09

STRUCTURAL NOTES

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

GENERAL

A. 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. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED WHICH ARE CONTRADICTORY TO THOSE SHOWN IN THE TOSHIBA SITE PLANS.

C. THE DEMOLITION, FABRICATION, AND ERECTION OF SUPPORT STRUCTURES AS WELL AS ANCHORING AND THRU-BOLTING FOR TOSHIBA EQUIPMENT SHALL BE PERFORMED BY THE CUSTOMER/CONTRACTOR IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS SET FORTH BY THE STRUCTURAL ENGINEER OF RECORD.

D. 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 MOUNTED INJECTORS OR MONITORS).

E. IN THE INTEREST OF SAFETY TOSHIBA RESERVES THE RIGHT TO DELAY INSTALLATION COMMENCEMENT UNTIL STRUCTURAL DESIGN DRAWINGS STAMPED BY THE STRUCTURAL ENGINEER OF RECORD HAVE BEEN PROVIDED.

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

G. FOR SLAB ON GRADE INSTALLATIONS, CONSULT INSTALLATION PROJECT MANAGER IF SLAB IS LESS THAN 6" IN DEPTH.

CEILING STRUCTURAL SYSTEMS

H. IN ORDER TO AVOID COLLISION WITH MOVEABLE TOSHIBA CEILING MOUNTED EQUIPMENT, ALL CEILING FIXTURES SUCH AS LAMPS, SMOKE DETECTORS, SPRINKLERS, ETC. MUST BE FLUSH MOUNTED (SEE DETAIL #2 / SHEET GN2).

UNISTRUT NOTE

I. CEILING UNISTRUT SUPPORT STRUCTURES TO BE DESIGNED BY OTHERS BASED ON SPECIFICATIONS SHOWN ON TOSHIBA SITE PLANS (IF APPLICABLE).

J. UNISTRUT OR EQUIVALENT CHANNEL SUPPORT SYSTEM TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR (IF APPLICABLE).

K. UNISTRUT ARE TO BE P1001 OR P5001 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 TOSHIBA EQUIPMENT. UNISTRUT LOAD REQUIREMENTS AND DESIGN ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD.

REVISED: 07-07-09

SPECIAL NOTES

SPECIAL SEISMIC CERTIFICATION

A. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:

- A.A. OSP-0174-10
GANTRY
AQUILION LB: CCGT-020A/1C
AQUILION CX: CCGT-024A/1B
AQUILION 64: CCGT-021A/1A
AQUILION 32: CCGT-021A/2A
AQUILION 16/8/4: CCGT-018A/1C
- PATIENT COUCH
AQUILION CX: CBTB-023A/1A
LATERAL SHIFT KIT: CALU-001A/1C (OPTIONAL)
AQUILION LB STANDARD: CBTB-020A/1A
AQUILION LB COMPACT: CBTB-020B/1A
AQUILION 64/32 STANDARD: CBTB-019A
AQUILION 64/32 COMPACT: CBTB-019B
AQUILION 16/8/4: CBTB-016A/1A
- RECONSTRUCTION UNIT(S)
AQUILION LB: CKCN-012C/5A
AQUILION CX/64/32: CKCN-012B/5A
AQUILION 16/8/4: CKCN-012C/7A
- CPU
MODEL NUMBERS SAME AS RECONSTRUCTION UNIT(S) ABOVE
- LCD MONITORS
KEYBOARDS
MOUSE

- A.B. OSP-0162-10
PCDU - GROUP 1 ENCLOSURES (AS APPLICABLE)
- A.C. OSP-0119-10
G8000 UNINTERRUPTIBLE POWER SUPPLY - G8000 100KVA (AS APPLICABLE)
- A.D. OSP-0088-10
BAT - BC43 (WHEN PAIRED WITH G8000) (AS APPLICABLE)
BAT - BC55 (WHEN PAIRED WITH 9390) (AS APPLICABLE)
- A.E. OSP-0013-10
UPS - 9390 160 KVA (AS APPLICABLE)

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

REVISED: 09-26-12

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 TOSHIBA EQUIPMENT. THE DESIGN OF ALL ELECTRICAL ELEMENTS MUST BE SPECIFIED BY A LICENSED ELECTRICAL ENGINEER IN ACCORDANCE WITH TOSHIBA SPECIFICATIONS AND ALL APPLICABLE CODES.

B. IN ACCORDANCE WITH N.E.C. ARTICLE 517-72(B), THE EQUIPMENT CIRCUIT BREAKER(S) DISCONNECT 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 POWER OFF BUTTON FOR THE SHUNT TRIP SHOULD BE LOCATED IN THE CONTROL AREA.

C. THE CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL CIRCUIT BREAKERS, CONDUITS, JUNCTION BOXES, DUCTS, ETC. SPECIFIED HEREIN.

D. THE TOSHIBA SITE PLANS DO NOT SPECIFY ELECTRICAL REQUIREMENTS FOR EQUIPMENT NOT SOLD BY TOSHIBA.

E. TOSHIBA WILL SUPPLY INTERCONNECTING CABLES FOR THE TOSHIBA EQUIPMENT. TOSHIBA WILL INSTALL IF LOCAL TRADE LABOR PERMITS.

F. 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 200 LBS OF CONCENTRATED LOAD.

I. GROMMETED OPENINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. VERIFY SIZE AND LOCATION WITH TOSHIBA REPRESENTATIVE. ALL GROMMETED OPENINGS SHALL HAVE NO SHARP EDGES.

J. ALL CHASE & GROMMETED OPENINGS SHALL HAVE PLASTIC BUSHINGS.

K. ALL DUCT WORK SHALL HAVE A MINIMUM OF THREE COMPARTMENTS WITH TRANSITIONS FROM HORIZONTAL TO VERTICAL WALL DUCT OR JUNCTION BOXES. LOCAL CODES MAY REQUIRE THE USE OF CROSS-OVER TUNNELS OR OTHER SUCH DEVICES TO MAINTAIN CABLE SEPARATION.

L. ALL DUCTS AND CONDUITS SHALL BE ELECTRICALLY BONDED AS A GROUNDING PATH IN ACCORDANCE WITH N.E.C. ARTICLE 517-13(B).

M. CUSTOMER/CONTRACTOR SHALL SUPPLY AND INSTALL GREEN/EE NYLON MEASURING PULL STRING OR EQUIVALENT IN ALL CONDUITS AND CLOSED DUCT WORK.

N. CONDUIT RUNS SHOWN ARE FOR REFERENCE ONLY. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90 DEGREE BENDS.

O. 110 VAC GROUNDED OUTLETS SHALL BE PROVIDED ON WALLS NEAR TOSHIBA EQUIPMENT FOR USE DURING EQUIPMENT SERVICE.

P. 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 POWER QUALITY REQUIREMENTS SPECIFICATIONS (SEE PAGE E3).

Q. CUSTOMER/CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY HARDWARE TO ENCLOSE INCOMING POWER CABLES IN WATER TIGHT CONDUIT FROM CIRCUIT BREAKER(S) TO TOSHIBA EQUIPMENT CABINET(S).

R. 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.

S. ALL DUCT WORK MAKING A 90 DEGREE ANGLE MUST BE CHAMFERED FOR CABLE ACCESS.

T. JUNCTION BOX SIZES MAY BE INCREASED AS NEEDED (WITH EXCEPTION OF THE "PD" / "PCDU" / "UPS" / "VRDU" / OR "PDU" JUNCTION BOX IF APPLICABLE.)

U. FIBER OPTIC CABLES FROM "REC" TO "GANT" & "REC" TO "CPU" REQUIRE A MINIMUM RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT.

REVISED: 09-26-12

TOSHIBA POWER & ENVIRONMENTAL QUALITY NOTIFICATION / ASSESSMENT

V. FOR YOUR SYSTEM TO PERFORM TO THE RELIABILITY AND QUALITY STANDARDS YOU EXPECT FROM TOSHIBA IT IS CRUCIAL THAT THE ENVIRONMENT IN WHICH THE SYSTEM IS OPERATING MEET THE REQUIREMENTS STATED WITHIN THE TOSHIBA PUBLISHED SPECIFICATIONS AS DOCUMENTED IN YOUR TOSHIBA SITE PLAN. TO ENSURE QUALITY PERFORMANCE, TOSHIBA, WITH NO COST TO YOU, WILL CHECK THE TEMPERATURE, HUMIDITY AND INCOMING POWER OF YOUR SITE PRIOR TO AND AFTER THE INSTALLATION OF TOSHIBA EQUIPMENT. TOSHIBA WILL PROVIDE A WRITTEN REPORT DETAILING THE STATUS OF YOUR SITE'S ENVIRONMENT AND INCOMING POWER. SHOULD ANY FAILURE TO MEET TOSHIBA'S SPECIFICATIONS BE IDENTIFIED PRE AND POST INSTALLATION, THE FACILITY WILL BE REQUIRED TO CORRECT THEM TO MEET TOSHIBA PUBLISHED SPECIFICATIONS. TOSHIBA WILL PROVIDE GUIDANCE TO DEVELOP SOLUTIONS TO ANY DEFICIENCIES TO THE ENVIRONMENT OR INCOMING POWER. HOWEVER YOU ARE RESPONSIBLE FOR CORRECTING SUCH DEFICIENCIES, AT NO COST TO TOSHIBA. FAILURE TO CORRECT ANY KNOWN OR DISCOVERED DEFICIENCIES MAY RESULT IN SYSTEM REPAIRS THAT ARE NOT COVERED BY YOUR WARRANTY OR SERVICE CONTRACT.

REVISED: 09-26-12

MINIMUM SITE REQUIREMENTS

	PLEASE CHECK THE FOLLOWING:	COMPLETE
1	ALL WALLS, FLOORS, AND CEILINGS FINISHED. WALLS PAINTED, FLOORS TILED, CEILING GRID WORK, AND FIXTURES INSTALLED.	___
2	MONOLITHIC OR LAY-IN CEILING? (PLEASE CIRCLE ONE)	___
3	DOORS AND WINDOWS (INCLUDING ALL LEADED DOORS AND GLASS) INSTALLED AND LOCKABLE. DOORS MUST BE REMOVED PRIOR TO DELIVERY BY CUSTOMER OR CONTRACTOR AND REINSTALLED AFTER EQUIPMENT MOVE IN.	___
4	AREA SET ASIDE FOR EQUIPMENT RIGGING AND MOVE-IN. ENVIRONMENTAL ISSUES ADDRESSED AND RESOLVED PRIOR TO EQUIPMENT DELIVERY (I.E. SURGICAL SUITE).	___
5	ALL CONDUIT, TROUGHING (WITH COVERS), AND BOXES INSTALLED (CLEAN AND DUST FREE). GROMMETED OPENINGS CHASE NIPPLES AND RACEWAY DIVIDERS, ETC. COMPLETE.	___
6	INCOMING POWER (PER POWER QUALITY REQUIREMENTS) OPERATIONAL AND CONNECTED TO ROOM BREAKER(S).	___
7	LOCATION OF ALL ELECTRICAL BREAKERS IN POWER CHAIN NOTED.	___
8	ALL CONTRACTOR-INSTALLED STRUCTURAL SUPPORT DEVICES INCLUDING UNISTRUT INSTALLED AND LEVELED ACCORDING TO T.A.M.S. SPECIFICATION ON SITE PLANS.	___
9	ROOM LIGHTING INSTALLED AND OPERATIONAL.	___
10	ENSURE THAT LIGHTING/SPRINKLER HEADS PRESENT NO CONFLICT WITH UNITS TO BE MOUNTED ON THE CEILING.	___
11	110V ROOM OUTLETS OPERATIONAL.	___
12	ALL CONTRACTOR-SUPPLIED CABLES PULLED AND TERMINATED, INCLUDING GROUND WIRE AND GROUND BUS BAR IN TROUGHING AS SPECIFIED IN THE TOSHIBA SITE PLANS.	___
13	INTERFACE FOR DIMMING OF ROOM LIGHTS (IF APPLICABLE). WARNING LIGHTS AND DOOR SWITCHES INSTALLED AND INTERFACE AVAILABLE AND CONNECTED (RELAYS, ETC.).	___
14	DUST FREE ENVIRONMENT IN ALL RELATED ROOMS.	___
15	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.	___
17	PLUMBING COMPLETED (INCLUDING GASES, IF APPLICABLE) ACCORDING TO T.A.M.S. SPECIFICATIONS ON SITE PLANS.	___
18	OPTIONAL COMPUTER FLOOR INSTALLED (IF APPLICABLE).	___
19	THIRD PARTY VENDED ITEMS SUCH AS PROCESSORS, FILM CHANGERS, INJECTORS, GAS PEDESTALS, PHYSIOLOGICAL MONITORING EQUIPMENT, ETC., INSTALLED AND OPERATIONAL.	___
20	TELEPHONE LINES (VOICE AND OPTIONAL MODEM) INSTALLED AND OPERATIONAL. A DEDICATED PHONE LINE IS REQUIRED FOR SITES THAT ARE RECEIVING INNERVISION.	___
21	ALL UNFINISHED AREAS ARE TO BE SEALED OFF TO PREVENT DUST CONTAMINATION.	___
22	RECEPTACLE FOR TRASH AVAILABLE (LARGE ENOUGH FOR SHIPPING CRATES IF REQUIRED).	___
23	SUB BASE PLATE(S) INSTALLED (IF REQUIRED).	___
24	"PD" / "PCDU" / "UPS" / "VRDU" / OR "SYSTEM UPS" INSTALLED AND OPERATIONAL (IF APPLICABLE).	___
25	SEISMIC REQUIREMENTS, ANY REQUIRED SEISMIC ANCHORING DEVICES INSTALLED (IF APPLICABLE).	___
26	NETWORK CONNECTIONS INSTALLED AND OPERATIONAL.	___
27	ALL APPLICABLE PERMITS OBTAINED.	___

NOTICE:
CUSTOMER MUST COMPLETE ALL ITEMS ON THIS CHECKLIST BEFORE THE SCHEDULED DELIVERY DATE FOR THE EQUIPMENT. IF CUSTOMER FAILS TO DO SO, DELIVERY MAY BE DELAYED. FURTHERMORE, THE EQUIPMENT WARRANTY MAY BE VOIDED.

SIGNED TOSHIBA: _____

CONTRACTOR: _____

CUSTOMER: _____

COMMENTS: _____

PROJECT:
130013744CTF1

REVISED: 09-26-12



INT.	V.H. L.B.C.
DESCRIPTION	ORIGINAL FINAL DRAWINGS COMPLETED. NO CHANGES MADE TO THIS SHEET.
DATE	07-19-13 07-22-13
REV.	△ △

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCIT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

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: 07-22-13

SCALE: NOT TO SCALE

DRAWN: L.B.C.

SID: 30008345

PROJECT:
130013744CTF1

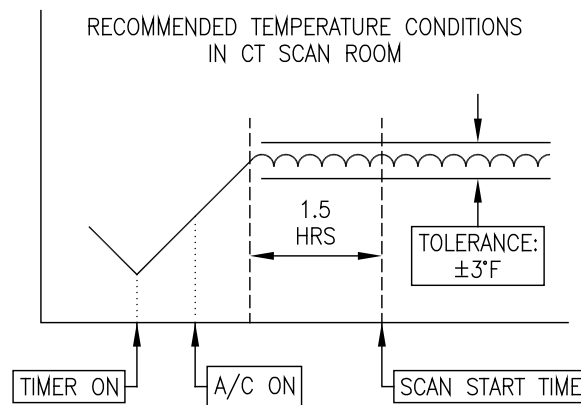
GN1

REVISED: 09-26-12

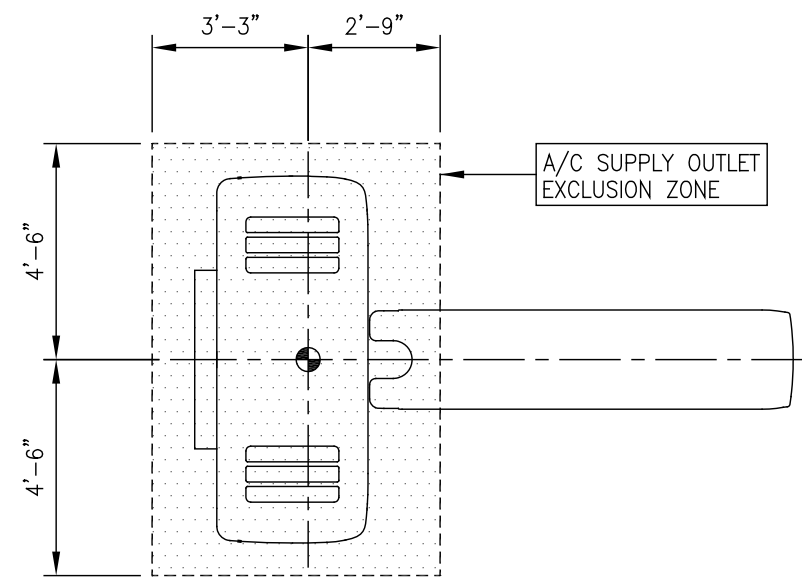
HVAC REQUIREMENTS

**AMBIENT TEMPERATURE SHOULD BE 68°F - 74°F
WITH EQUIPMENT HEAT LOADS (SHEET A1 EQUIPMENT LEGEND)
HUMIDITY RANGE OF 40-70% NON CONDENSING**

- A. STATED AMBIENT TEMPERATURE IS TO BE PROVIDED AND MAINTAINED AS SPECIFIED. ALL CALCULATIONS ARE TO UTILIZE TOSHIBA PROVIDED HEAT OUTPUT SPECIFICATIONS OF EQUIPMENT.
- B. A MINIMUM OF 10 AIR CHANGES PER HOUR IS SUGGESTED. CONSULT LOCAL CODE.
- C. EQUIPMENT IN ENCLOSED SPACES SUCH AS EQUIPMENT ROOMS, CLOSETS AND COMPUTER ROOMS MUST BE PROVIDED WITH ADEQUATE VENTILATION.
- D. A/C SUPPLY OUTLET TO BE PROVIDED BY CUSTOMER AT FLOOR LEVEL OR AS CLOSE AS POSSIBLE TO CONTROL ROOM DESK.
- E. DUE TO HEAT GENERATED BY THE "CPU" (AND "REC" IF APPLICABLE) UNIT(S), ADDITIONAL VENTILATION IN THE CONTROL AREA IS REQUIRED. CUSTOMER/CONTRACTOR PROVIDED FANS MAY BE NECESSARY BELOW THE DESKTOP FOR TECHNICIAN COMFORT. THE "CPU/REC" UNIT(S) SHOULD NOT BE ENCLOSED IN CASEWORK.
- F. AIR SUPPLY DUCTS SHOULD NOT BE PLACED DIRECTLY OVER EXAMINATION TABLES OR GANTRY FOR PATIENT COMFORT (SEE DETAIL #1 / SHEET GN2).
- G. THE AIR FLOW THROUGH TOSHIBA EQUIPMENT CABINETS IS FROM BOTTOM TO TOP.
- H. WHERE POSSIBLE A/C SUPPLY OUTLETS SHOULD BE LOCATED AT FLOOR LEVEL. NO A/C OUTLET SHOULD BE WITHIN THE EXCLUSION ZONE SHOWN BELOW AND AT NO TIME SHOULD THE CT SYSTEM BE EXPOSED TO DIRECT AIRFLOW.



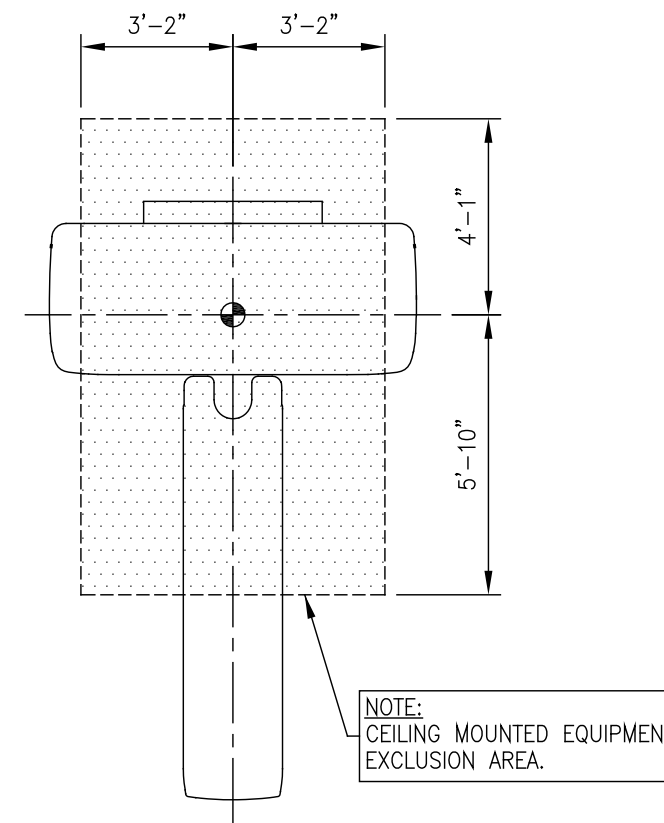
REVISED: 07-07-09



1 SUPPLY OUTLET EXCLUSION ZONE

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

REVISION: 07-07-09



DETAIL NOTES:

- A. CEILING MOUNTED EQUIPMENT MUST BE POSITIONED TO AVOID INTERFERENCE WITH GANTRY.
- B. EQUIPMENT IS TO BE A MINIMUM OF 10" ABOVE THE RAISED GANTRY COVER (SEE DETAIL #1 SHEET A2).
- C. OVERHEAD COUNTERPOISE SYSTEMS CAN BE INSTALLED OVER GANTRY ISOCENTER IF THE PLATE IS MOUNTED AT A HEIGHT SUCH THAT THE BOTTOM OF THE POST DOES NOT INTERFERE WITH THE GANTRY (HEIGHT OF GANTRY + 10" CLEARANCE + POST LENGTH = MOUNTING PLATE HEIGHT ABOVE FINISHED FLOOR).

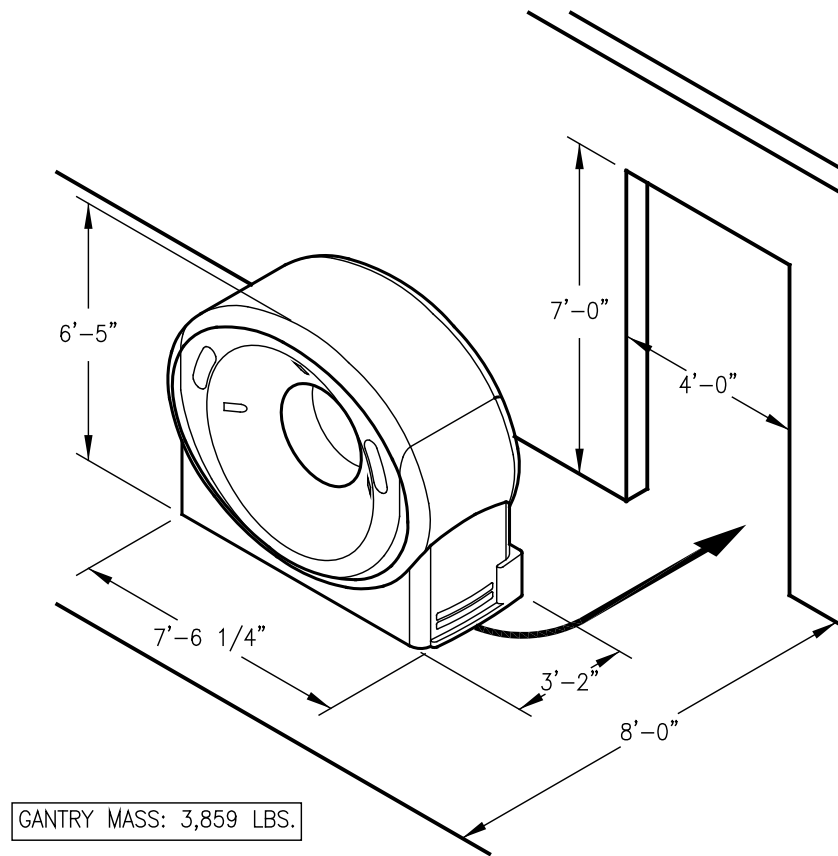
2 CEILING MOUNTED EQUIPMENT

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

REVISION: 07-07-09

**RECOMMENDED DELIVERY REQUIREMENTS
(AQUILION)**

PRIOR TO GANTRY DELIVERY, CHECK THE DELIVERY ENTRANCE, CORRIDOR WIDTH, ELEVATOR CAPACITY, ETC. TO ENSURE EASE OF DELIVERY. COMPENSATION FOR ADDITIONAL REQUIREMENTS OF RIGGING EQUIPMENT USED (I.E. SIZE AND MANEUVERABILITY) MUST BE CONSIDERED WHEN REVIEWING THE FOLLOWING.



MINIMUM DELIVERY REQUIREMENTS

MINIMUM HEIGHT OF ENTRY WAY DOORS: 6'-9"
MINIMUM WIDTH OF ENTRY WAY DOORS: 3'-7 1/2"
MINIMUM WIDTH OF CORRIDOR: 6'-7"

3 GANTRY DELIVERY REQUIREMENTS

SCALE: NOT TO SCALE

REVISION: 07-07-09

**PINNACLE TRISTAN
ASSOCIATES
AQUILION - VELOCT**
32 NORTHEAST DRIVE
HERSHEY, PA 17033

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: 07-22-13

SCALE: NOT TO SCALE

DRAWN: L.B.C.

SID: 30008345

PROJECT:
130013744CTF1

GN2

REV.	DATE	DESCRIPTION	INT.
Δ	07-19-13	ORIGINAL FINAL DRAWINGS COMPLETED.	V.H.
Δ	07-22-13	NO CHANGES MADE TO THIS SHEET.	L.B.C.

TOSHIBA
Leading Innovation >>>
TOSHIBA AMERICA MEDICAL SYSTEMS INC.
www.medical.toshiba.com

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

EQUIPMENT LEGEND

* SEE NOTE BELOW TO DETERMINE BTU'S FOR COUCH/GANTRY.

ITEM	ELEC SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	DET. REF.
①	GANT	AQUILION GANTRY	*	3,859.00	① A2
②	PCH	AQUILION PATIENT COUCH (EXTENDED)	*	993.00	① A2
③	CPU	CENTRAL PROCESSING UNIT	5,123.00	267.00	① A3
④	REC	RECONSTRUCTION UNIT	12,284.00	675.00	② A3
⑤	MON	CONTROL MONITOR	192.00	17.60	③ A3
⑥	SPK1	SPEAKER (DESKTOP)	00.00	4.41	④ A3
⑦	SPK2	SPEAKER (WALL MOUNT)	00.00	4.41	④ A3
⑧	SKBD	SCAN KEYBOARD	00.00	5.95	-
⑨	DKBD	DISPLAY KEYBOARD	00.00	5.95	-
⑩	DESK	DESK FOR MONITORS & KEYBOARDS	00.00	221.00	⑤ A3
⑪	CHR	CHAIR	00.00	55.00	-
⑫	INV	INNERVISION WORKSTATION	455.00	13.00	⑥ A3
ITEM	ELEC SYM.	ITEM DESCRIPTION SUPPLIED BY TOSHIBA INSTALLED BY CUSTOMER/CONTRACTOR	BTU/HR	WEIGHT	DET. REF.
⑬	UPS	G8000 UNINTERRUPTIBLE POWER SUPPLY (WITHOUT BATTERY)	7,816.00	2,316.00	⑦ A3
⑭	RSAP	REMOTE STATUS ALARM PANEL (FOR "UPS")	---	10.00	⑧ A3
ITEM	ELEC SYM.	OPTIONAL ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	DET. REF.
⑮	RWT	ECG MONITOR, R-WAVE TRIGGER MONITOR (MODEL 703T)	172.70	12.00	-

TOSHIBA
Leading Innovation
TOSHIBA AMERICA MEDICAL SYSTEMS INC.
www.medical.toshiba.com

INT. V.H. L.B.C.
DESCRIPTION: ORIGINAL FINAL DRAWINGS COMPLETED. UPDATED DWG WITH ARCHITECT LAYOUT.
DATE: 07-19-13
REV. ① ②

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

***TOSHIBA EQUIPMENT BTU / HOUR: (INCLUDING GANTRY & COUCH ONLY)**

EXAM ROOM STAND-BY:	14,672.21 BTU/HR
EXAM ROOM SCANNING 2 PATIENTS:	21,441.89 BTU/HR
EXAM ROOM SCANNING 3 PATIENTS:	24,826.74 BTU/HR
EXAM ROOM SCANNING 4 PATIENTS:	28,211.58 BTU/HR
EXAM ROOM SCANNING 5 PATIENTS:	31,596.43 BTU/HR
EXAM ROOM SCANNING MAXIMUM:	35,827.48 BTU/HR

NOTE: FUTURE GROWTH OF FACILITY MUST BE CONSIDERED WHEN FORECASTING PATIENT NUMBERS FOR A/C REQUIREMENTS.
REVISED: 3-10-03

SYSTEM ELECTRICAL REQUIREMENTS FOR AQUILION WITH UPS

SUPPLY CONFIGURATION:	3 PHASE, 3 WIRE POWER, DELTA AND GROUND
DEDICATED FEED	
SUPPLY TRANSFORMER:	150KVA
SUPPLY VOLTAGE:	480V, 60HZ, 100 AMP
VOLTAGE VARIATION:	+15% / -20%

REVISED: 10-01-11

CEILING HEIGHT

RECOMMENDED CEILING HEIGHT: 9'-0"
MINIMUM CEILING HEIGHT: 8'-2 1/2"
EXISTING CEILING HEIGHT: 8'-3"

VIBRATION REQUIREMENTS FOR AQUILION GANTRY

.98 M/S² (0.1 G) OR LESS
REVISED: 4-19-05

SITE PLAN APPROVAL

IN ORDER TO USE THIS SET OF FINAL SITE PLANS, A CUSTOMER SIGNATURE IS REQUIRED BELOW. THE CUSTOMER'S SIGNATURE DEMONSTRATES ACCEPTANCE OF THE LAYOUT SHOWN AND ALL STATED SPECIFICATIONS.

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

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: 07-22-13

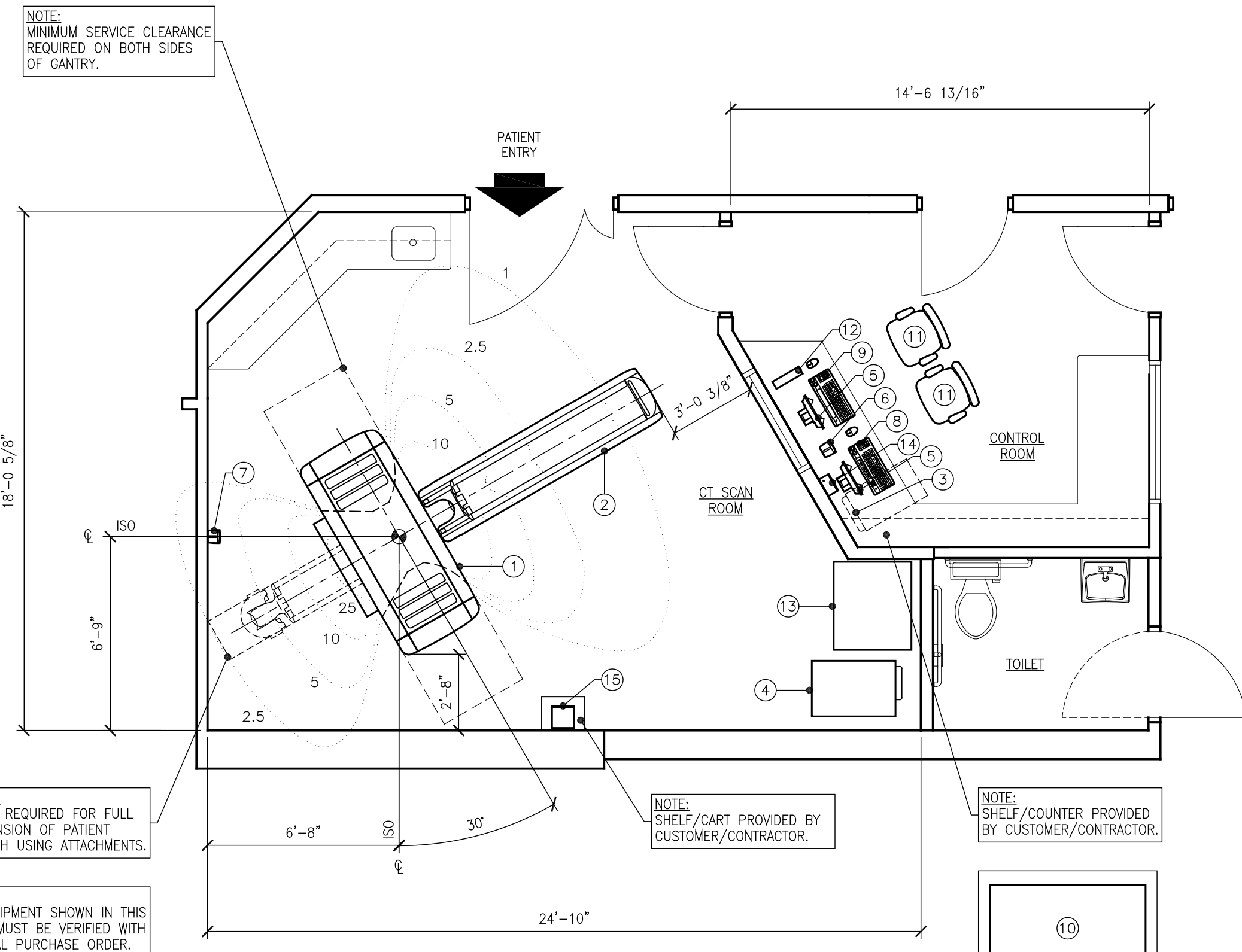
SCALE: 1/4" = 1'-0"

DRAWN: L.B.C.

SID: 30008345

PROJECT: **130013744CTF1**

A1



EQUIPMENT LAYOUT



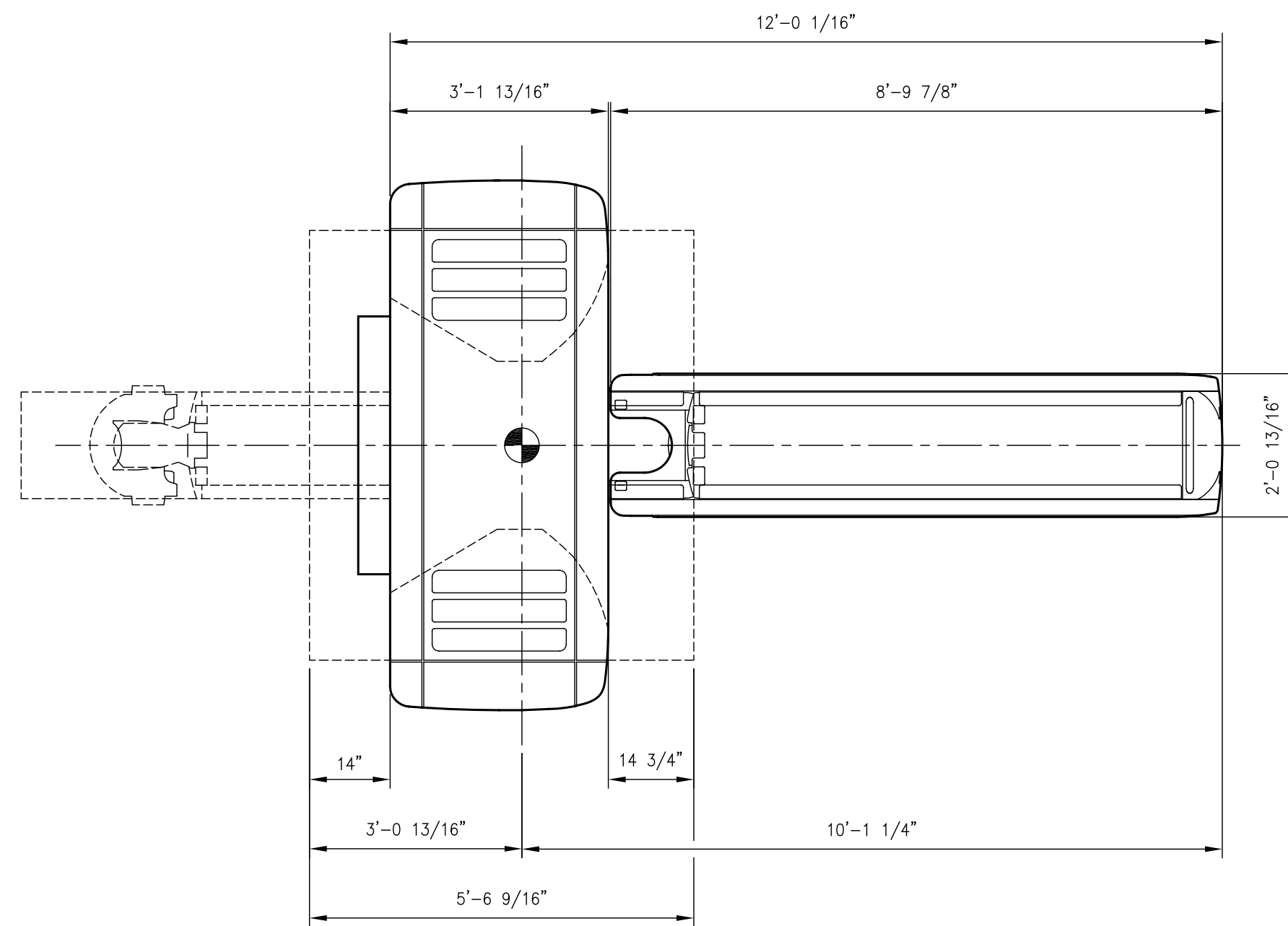
NOTE: 16" AIR FLOW CLEARANCE ABOVE "UPS" IS REQUIRED.

NOTE: "RSAP" MONITOR MUST BE LOCATED WITHIN 1,000 FT. OF THE "UPS". "RSAP" TO BE INSTALLED BY CUSTOMER'S ELECTRICIAN. CUSTOMER'S ELECTRICIAN MUST PROVIDE 7 TWISTED PAIR 16 AWG CABLE (SIGNAL), AND 18 AWG WIRE (POWER) FROM "UPS" TO "RSAP".

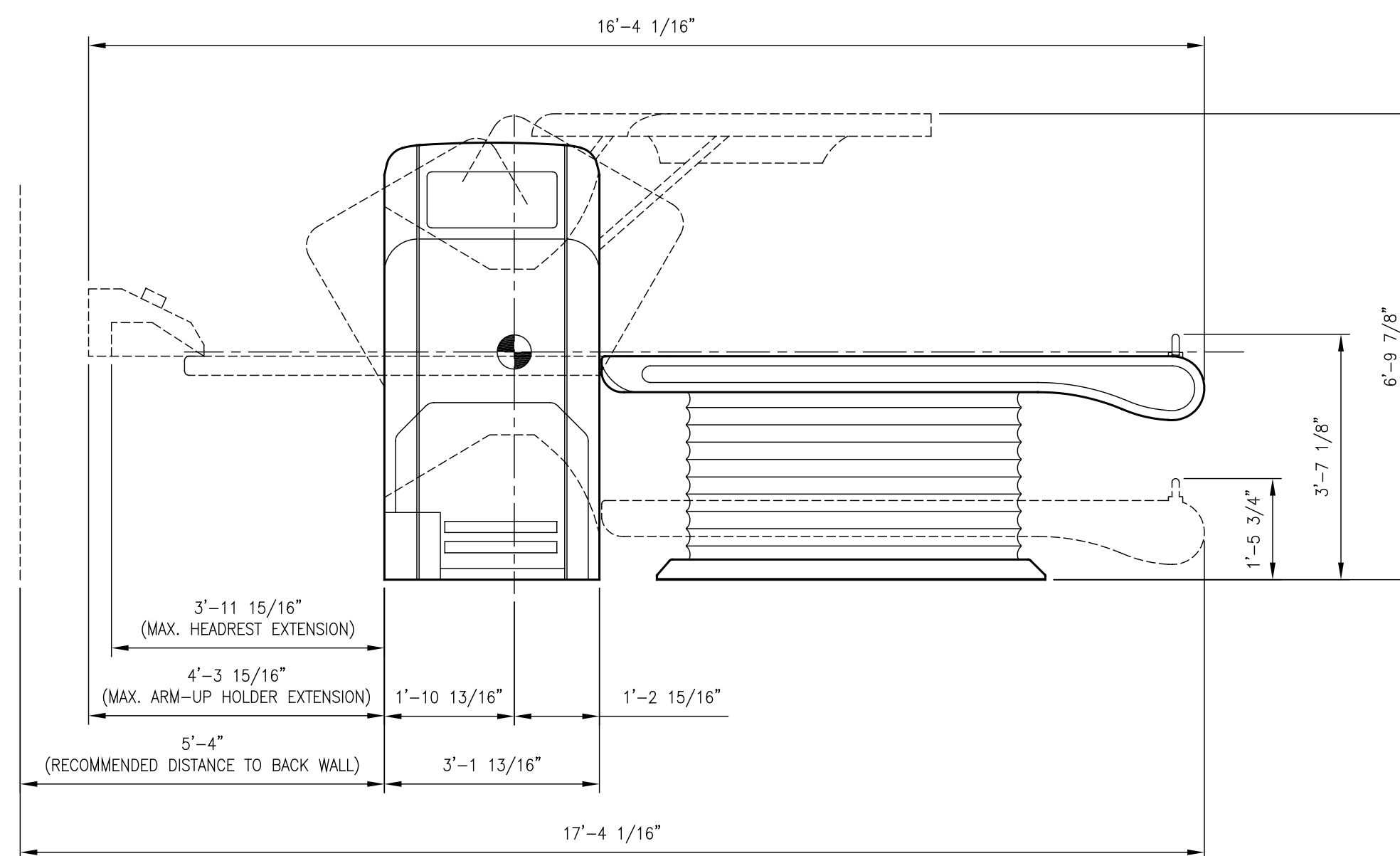
SCATTER RADIATION

UNITS: MICROGRAY (PER 100 mAs)
THE AMOUNT OF SCATTERED RADIATION DURING SCANNING IS SHOWN IN THE EQUIPMENT LAYOUT. REFER TO THIS DATA WHEN SCANNING TO MINIMIZE X-RAY EXPOSURE. NOTE THAT THE AMOUNT OF SCATTERED RADIATION DIFFERS DEPENDING ON THE PATIENT; THEREFORE, THE DATA SHOWN SHOULD BE USED ONLY AS A GUIDE.
120kV/200 mA/1.0 s/M/8 mm x 4/320 mm WATER PHANTOM.
THE ABOVE CALCULATION IS BASED ON A MULTI-SLICE EXPOSURE.
THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR HAVING SHIELDING CALCULATIONS PREPARED BY A LICENSED RADIATION PHYSICIST.
TOSHIBA REPRESENTATIVE WILL PROVIDE THE VERTICAL PLANE SCATTER DIAGRAM UPON REQUEST.
REVISED: 05-21-09

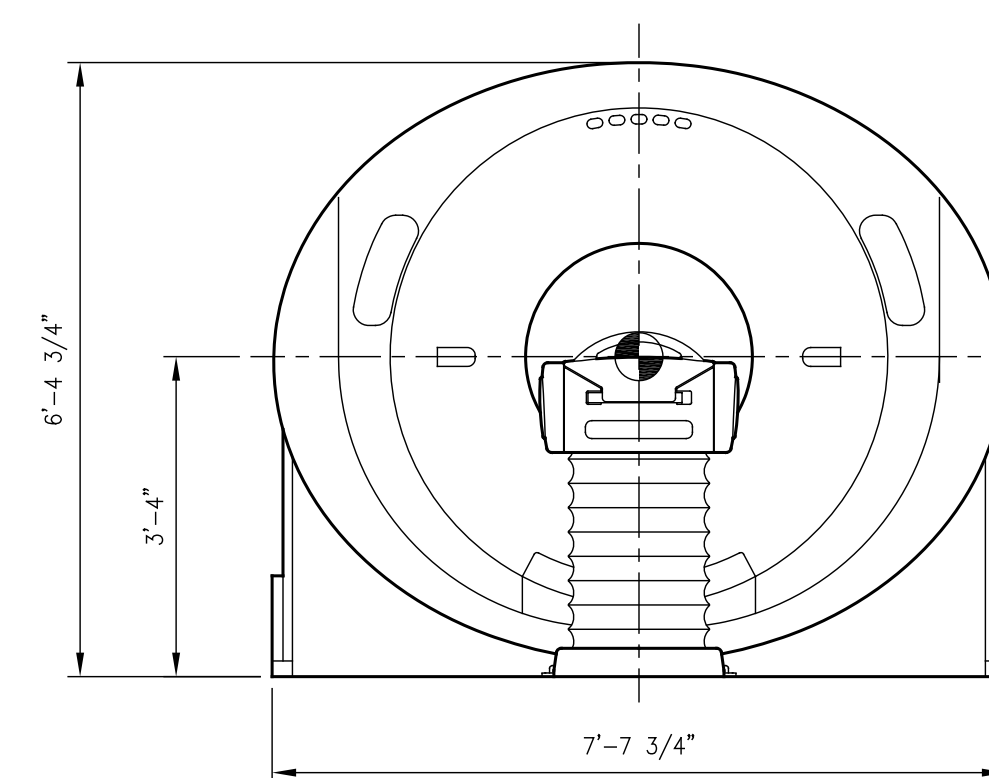
THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



PLAN



SIDE



FRONT

GANT
HEAT OUTPUT (BTU/HR)
SEE SHEET A1
WEIGHT (LBS)
3,859.00

PCH
HEAT OUTPUT (BTU/HR)
SEE SHEET A1
WEIGHT (LBS)
993.00

TOSHIBA
 Leading Innovation >>>
 TOSHIBA AMERICA MEDICAL SYSTEMS INC.
 www.medical.toshiba.com

REV.	DATE	DESCRIPTION	INT.
△	07-19-13	ORIGINAL FINAL DRAWINGS COMPLETED.	V.H.
△	07-22-13	NO CHANGES MADE TO THIS SHEET.	L.B.C.

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCT
 32 NORTHEAST DRIVE
 HERSHEY, PA 17033

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.

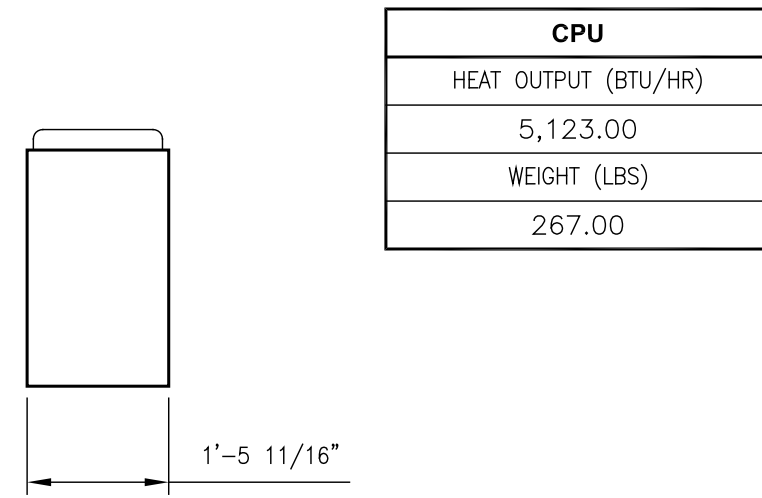
DATE:	07-22-13
SCALE:	AS NOTED
DRAWN:	L.B.C.
SID:	30008345
PROJECT:	130013744CTF1

1 AQUILION CT SCANNER - GANTRY AND PATIENT COUCH (EXTENDED)

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

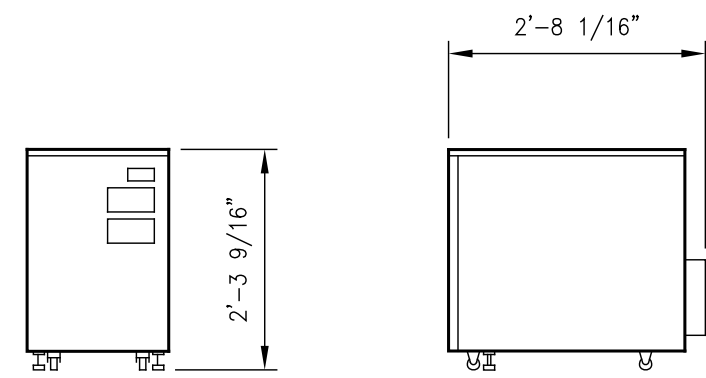
REVISION: 02-23-09

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



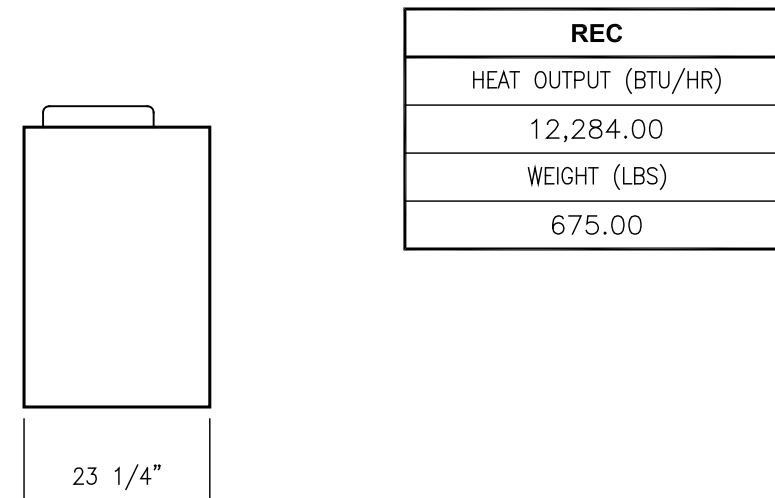
CPU	
HEAT OUTPUT (BTU/HR)	5,123.00
WEIGHT (LBS)	267.00

PLAN



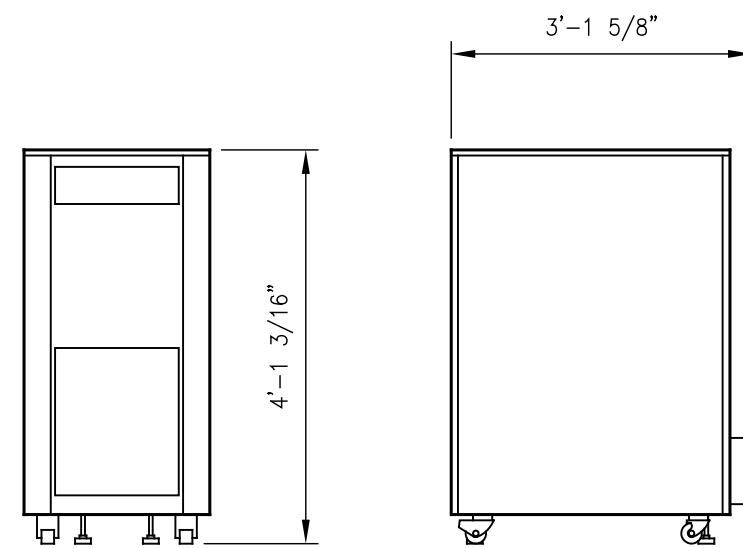
FRONT

SIDE



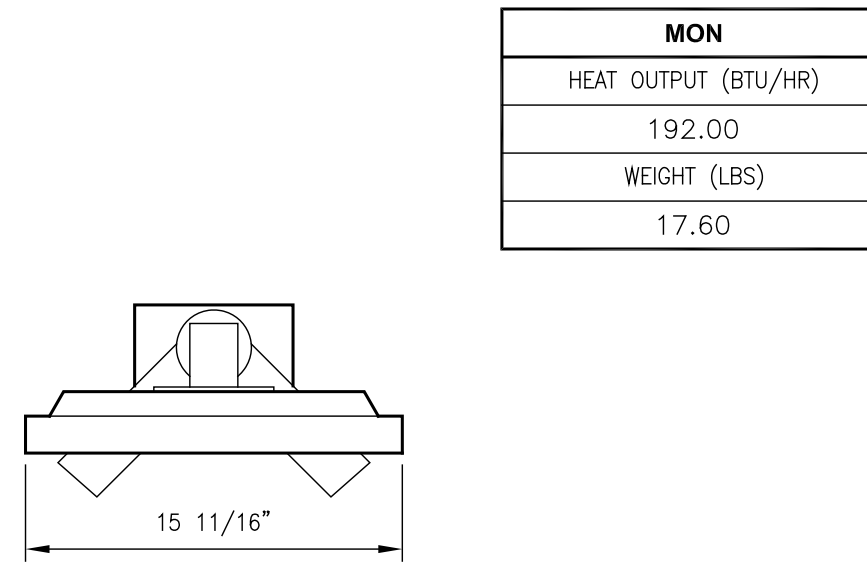
REC	
HEAT OUTPUT (BTU/HR)	12,284.00
WEIGHT (LBS)	675.00

PLAN



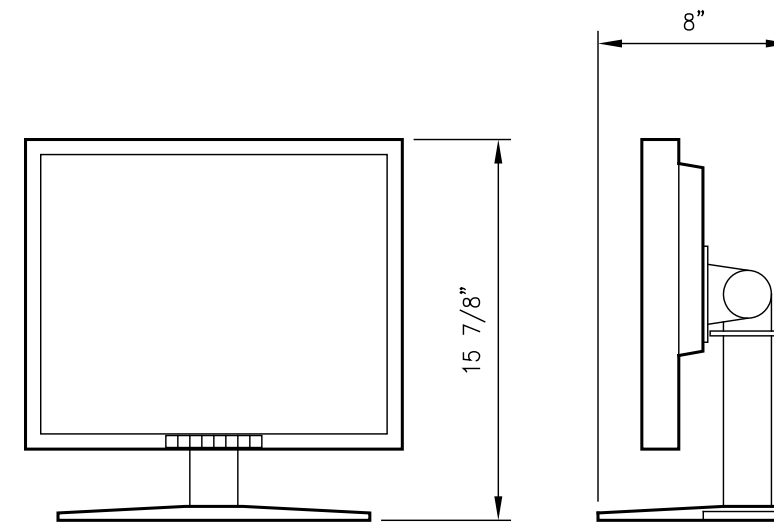
FRONT

SIDE



MON	
HEAT OUTPUT (BTU/HR)	192.00
WEIGHT (LBS)	17.60

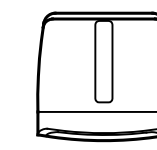
PLAN



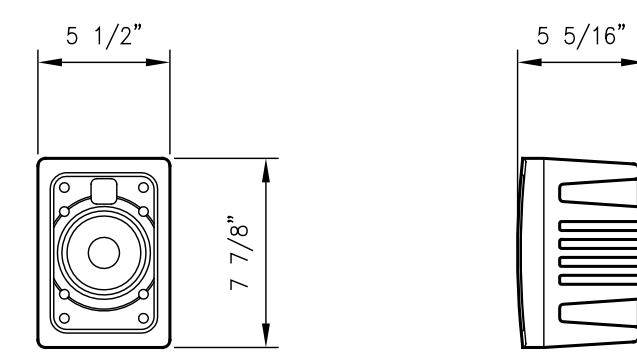
FRONT

SIDE

SPK1 & 2	
HEAT OUTPUT (BTU/HR)	00.00
WEIGHT (LBS)	4.41



PLAN



FRONT

SIDE

1 CENTRAL PROCESSING UNIT

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

REVISION: 09-26-12

2 RECONSTRUCTION UNIT

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

REVISION: 09-26-12

3 CONTROL MONITOR(S)

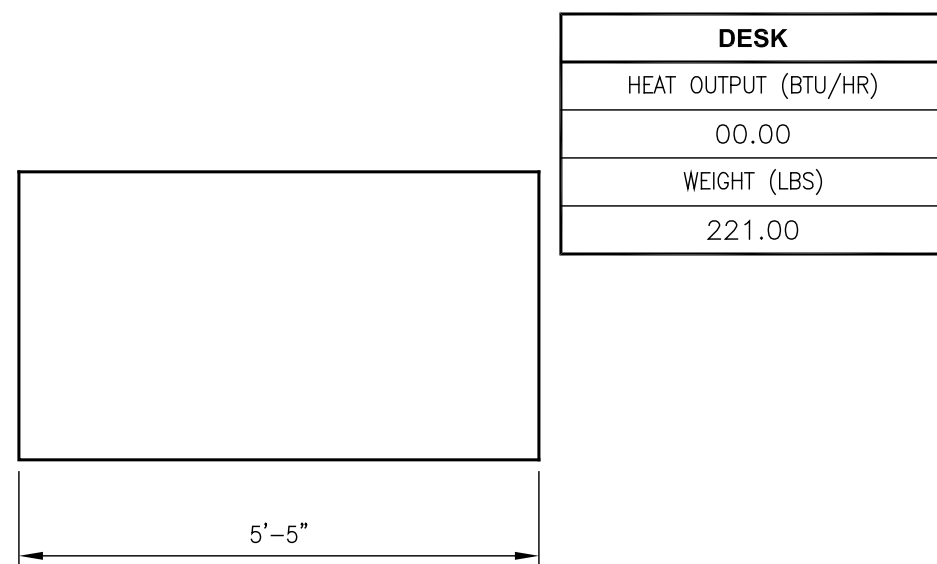
SCALE: 1 1/2" = 1' - 0"

REVISION: 04-01-08

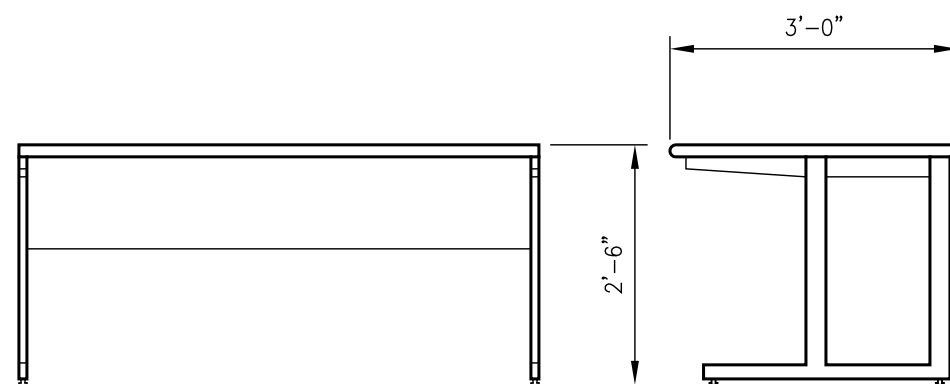
4 SPEAKER(S) WALLMOUNT/DESKTOP

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

REVISION: 04-01-08

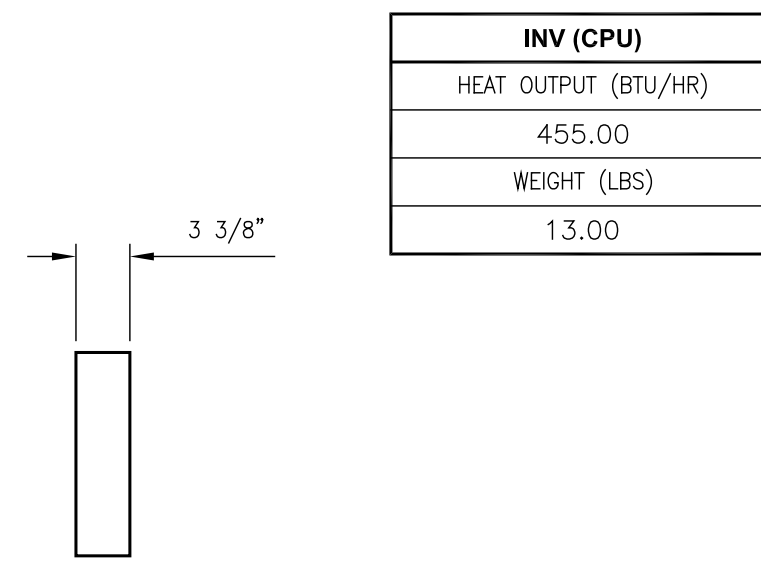


PLAN



FRONT

SIDE

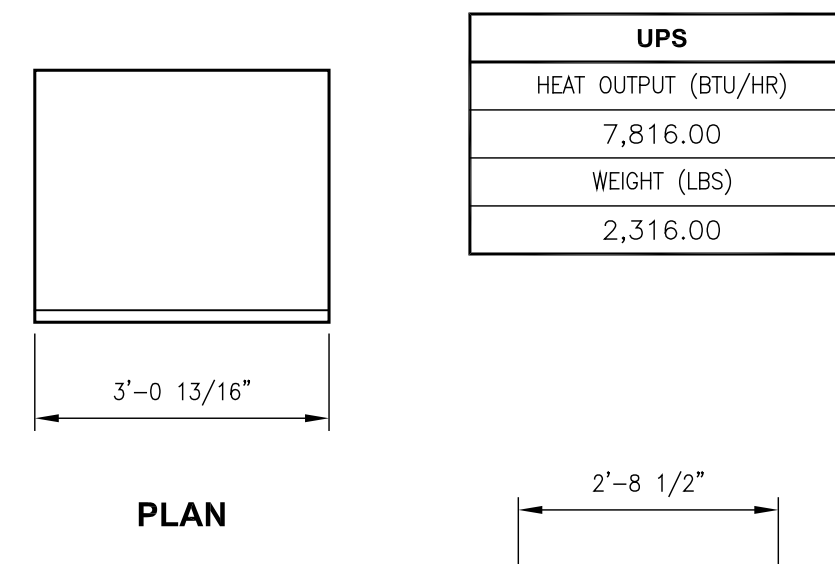


PLAN

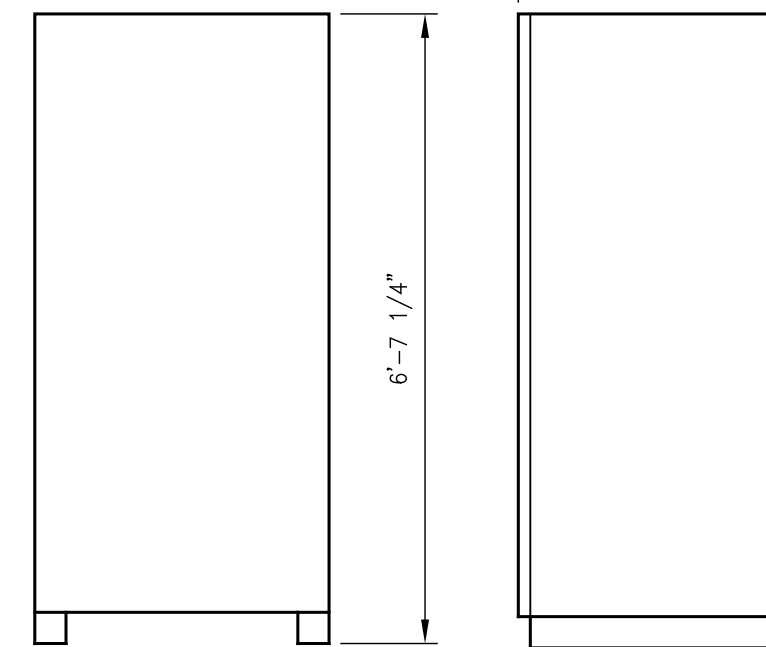


FRONT

SIDE

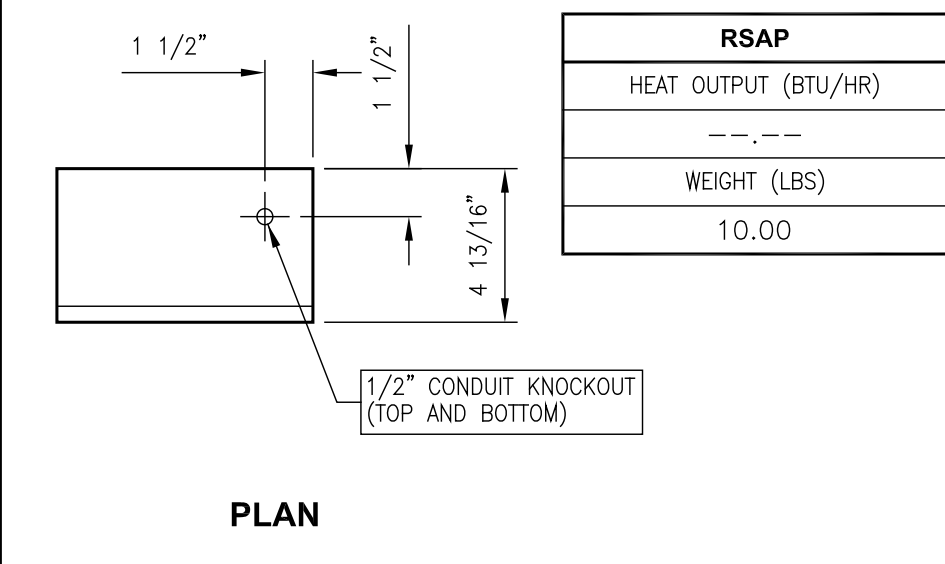


PLAN

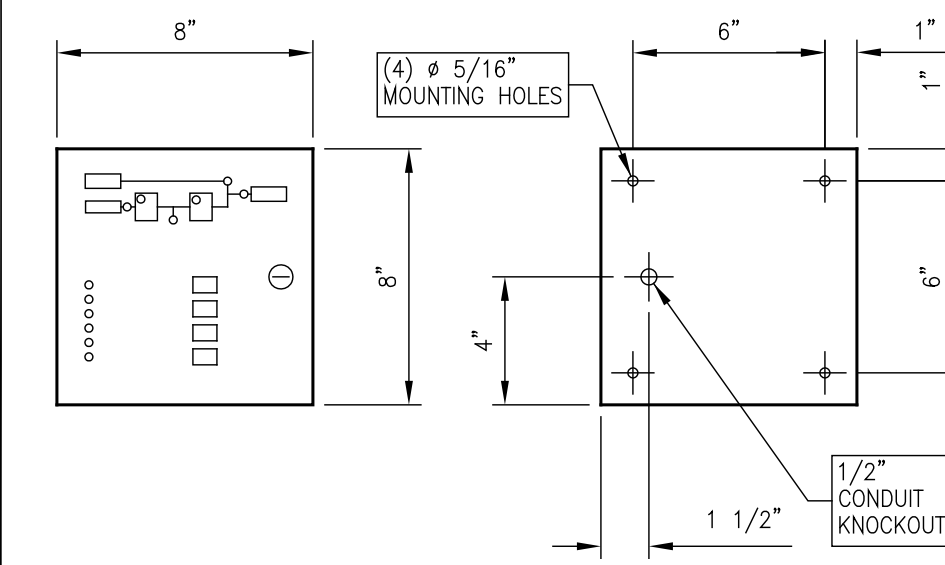


FRONT

SIDE



PLAN



FRONT

SIDE

5 CONTROL DESK

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

REVISION: 04-01-08

6 INNERVISION WORKSTATION

SCALE: 1" = 1' - 0"

REVISION: 02-12-10

7 G8000 UNINTERRUPTIBLE POWER SUPPLY

SCALE: 2" = 1' - 0"

REVISION: 11-03-11

8 REMOTE STATUS ALARM PANEL

SCALE: 2" = 1' - 0"

REVISION: 04-30-10

PINNACLE TRISTAN ASSOCIATES
AQUILON - VELOCT
 32 NORTHEAST DRIVE
 HERSHEY, PA 17033

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: 07-22-13

SCALE: AS NOTED

DRAWN: L.B.C.

SID: 30008345

PROJECT:
130013744CTF1

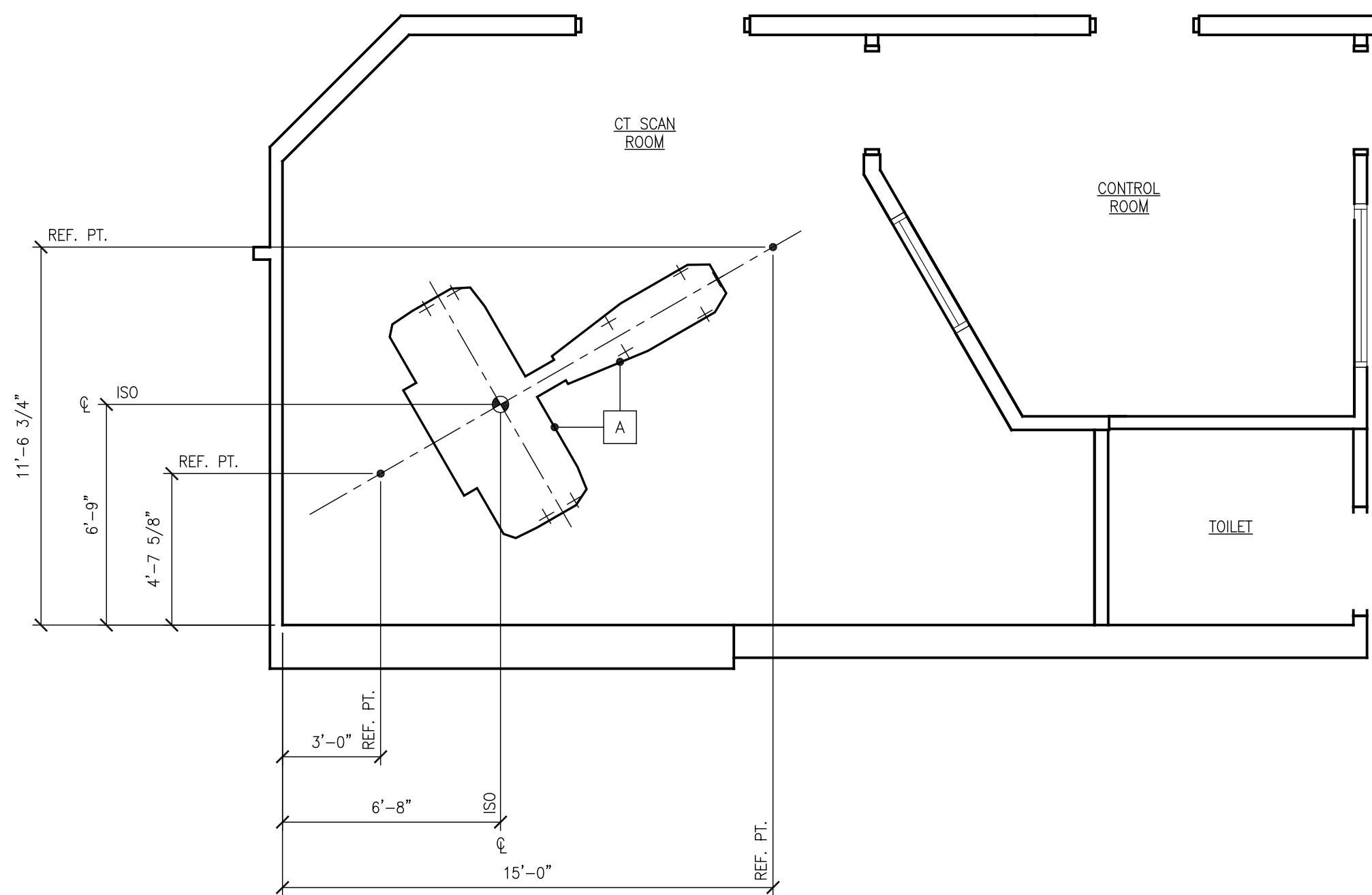
A3

INT. V.H. L.B.C.

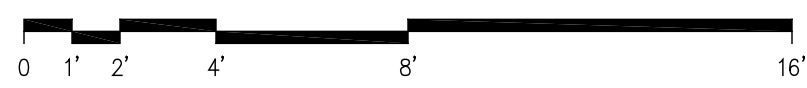
DESCRIPTION ORIGINAL FINAL DRAWINGS COMPLETED. NO CHANGES MADE TO THIS SHEET.

DATE 07-19-13 07-22-13

REV. 0 1



STRUCTURAL LAYOUT

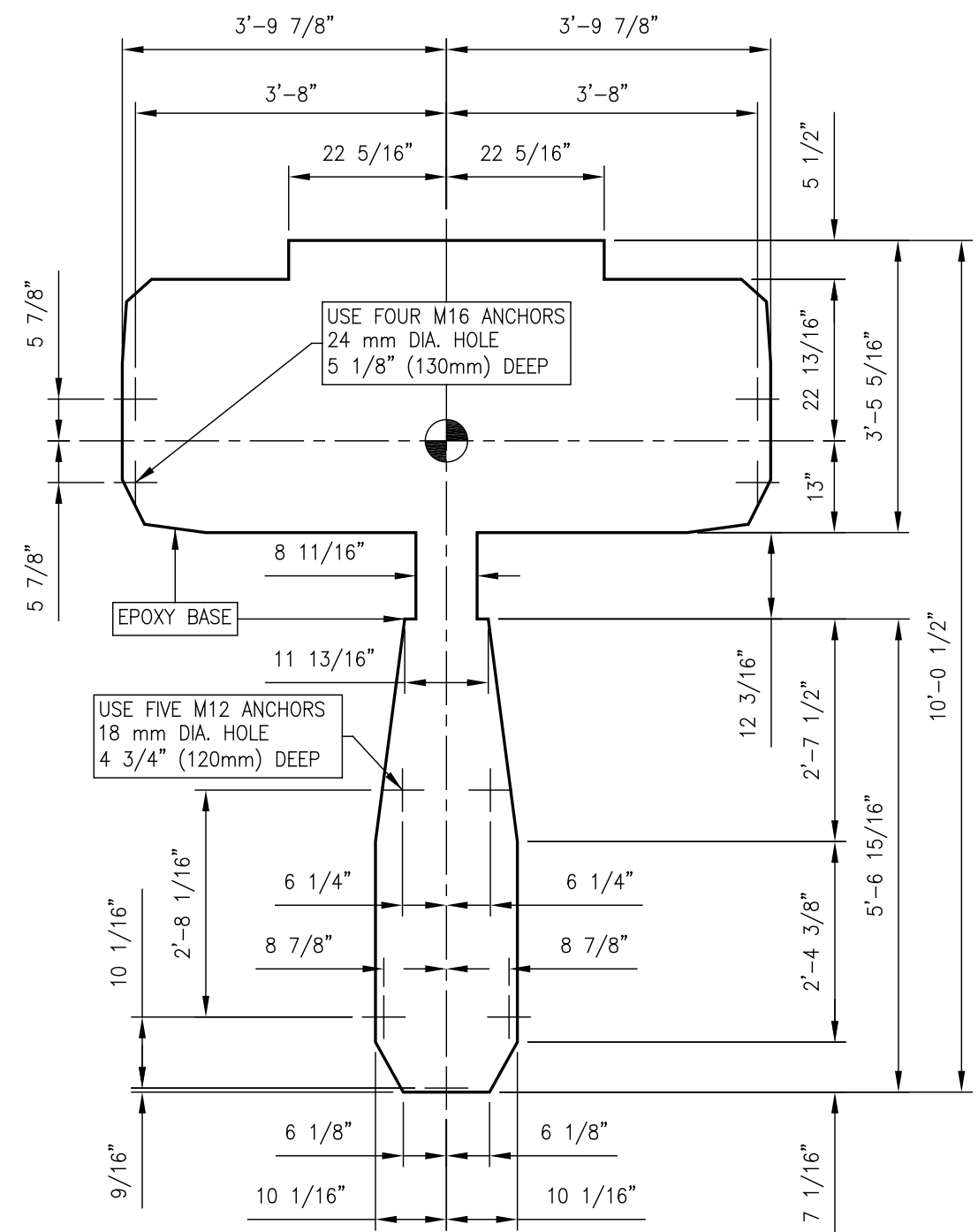


STRUCTURAL LEGEND

ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	DET. REF.
A	BASE LAYOUT FOR AQUILION	

TOSHIBA REQUIRES CONCRETE SLAB TO BE A MINIMUM DEPTH OF 6" IF SLAB ON GRADE. WHEN THROUGH BOLTING OR ANCHORING SYSTEM REFER TO SHEET S2. CONTACT YOUR INSTALLATION PROJECT MANAGER FOR STRUCTURAL CALCULATIONS FOR SEISMIC ZONE 4 AREAS.

FLOOR OVER ENTIRE AREA TO BE LEVEL WITHIN 3/16".



ANY FLOOR COVERING SHOULD BE REMOVED WITHIN THE AREA SHOWN, EXPOSING CONCRETE PRIOR TO POURING THE EPOXY PAD. THE AREA FROM WHICH THE FLOOR COVERING HAS BEEN REMOVED MUST BE CLEAN AND FREE OF RESIDUE.

DETAIL NOTES:

AN EPOXY PAD MUST BE POURED TO PROVIDE A LEVEL SURFACE. AN EPOXY PAD KIT WILL BE PROVIDED WITH THE PRE-INSTALLATION MATERIALS. CONTACT YOUR INSTALLATION PROJECT MANAGER FOR ADDITIONAL INFORMATION.

APPLY EPOXY RESIN TO THE AREA INDICATED ABOVE.

- (I) EPOXY RESIN: SPECIFIC GRAVITY 1.2
HARDENER: SPECIFIC GRAVITY 1.2
MIXTURE RATIO: PER MANUFACTURER'S SPECIFICATIONS
CURING TIME: 36-48 HOURS (AT AN AMBIENT TEMPERATURE OF APPROXIMATELY 75°F)
- (II) SINCE THE EPOXY RESIN TAKES 36-48 HOURS (DEPENDING ON AMBIENT TEMPERATURE) TO CURE, THIS WORK MUST BE COMPLETED BEFORE THE SYSTEM IS TO BE CARRIED IN.
- (III) THE ACCURACY OF THE DIMENSIONS INDICATED IN THE ABOVE FIGURE MUST BE WITHIN THE RANGE OF ±1/4" AS MEASURED WITH A TAPE MEASURE.

1 BASE EPOXY DETAIL

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

REVISION: 09-23-10

TOSHIBA
Leading Innovation >>>
TOSHIBA AMERICA MEDICAL SYSTEMS INC.
www.medical.toshiba.com

INT.	V.H.	L.B.C.

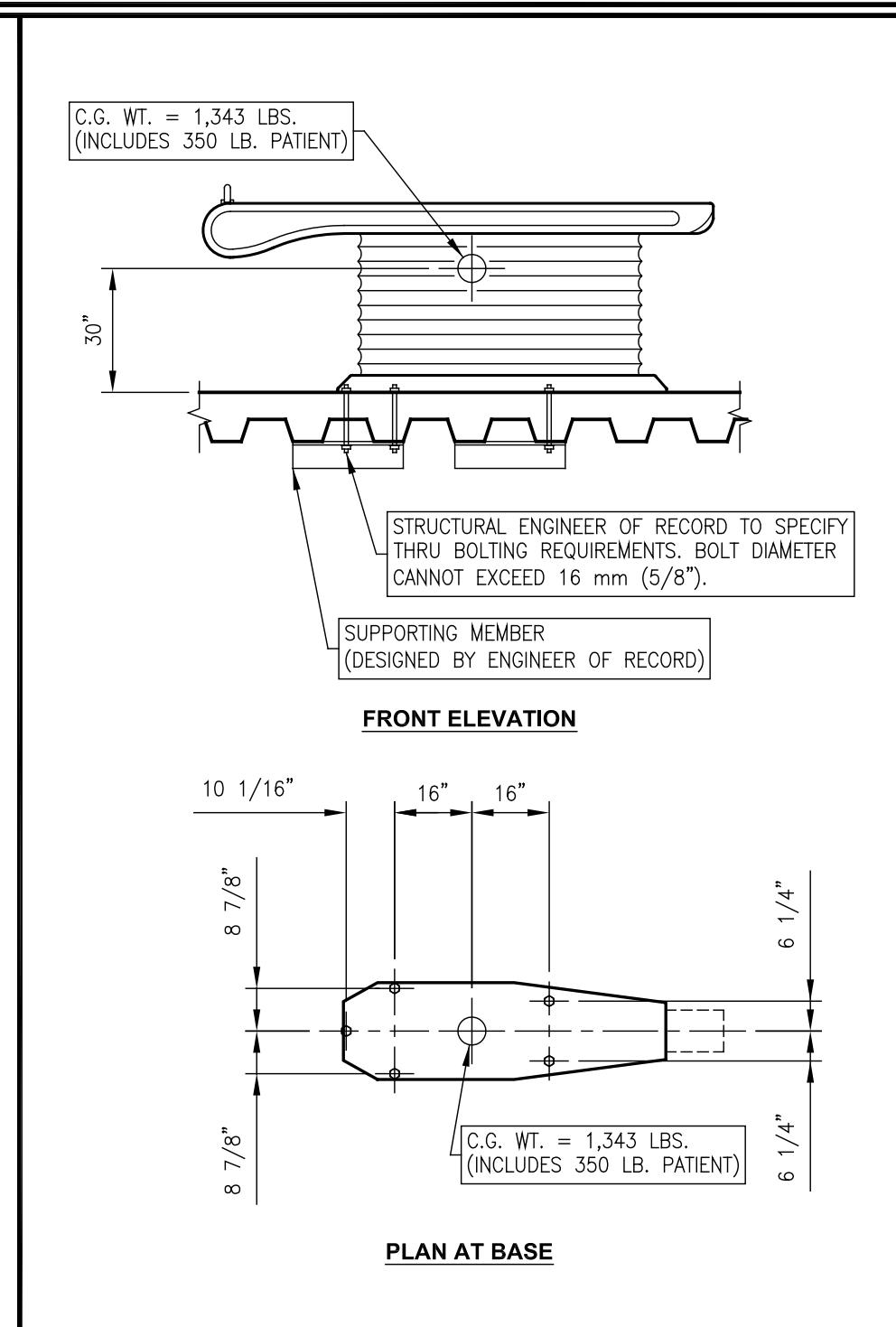
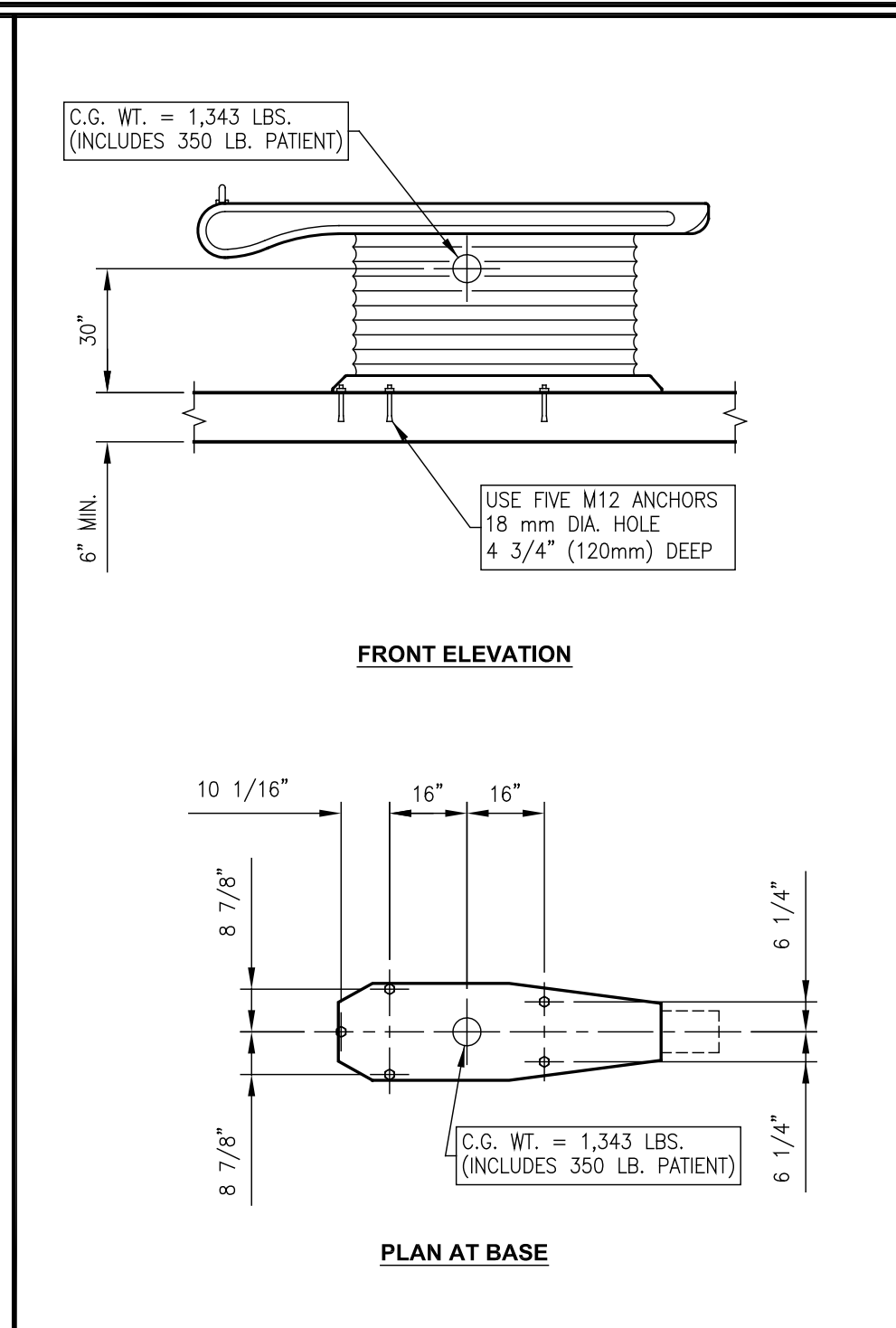
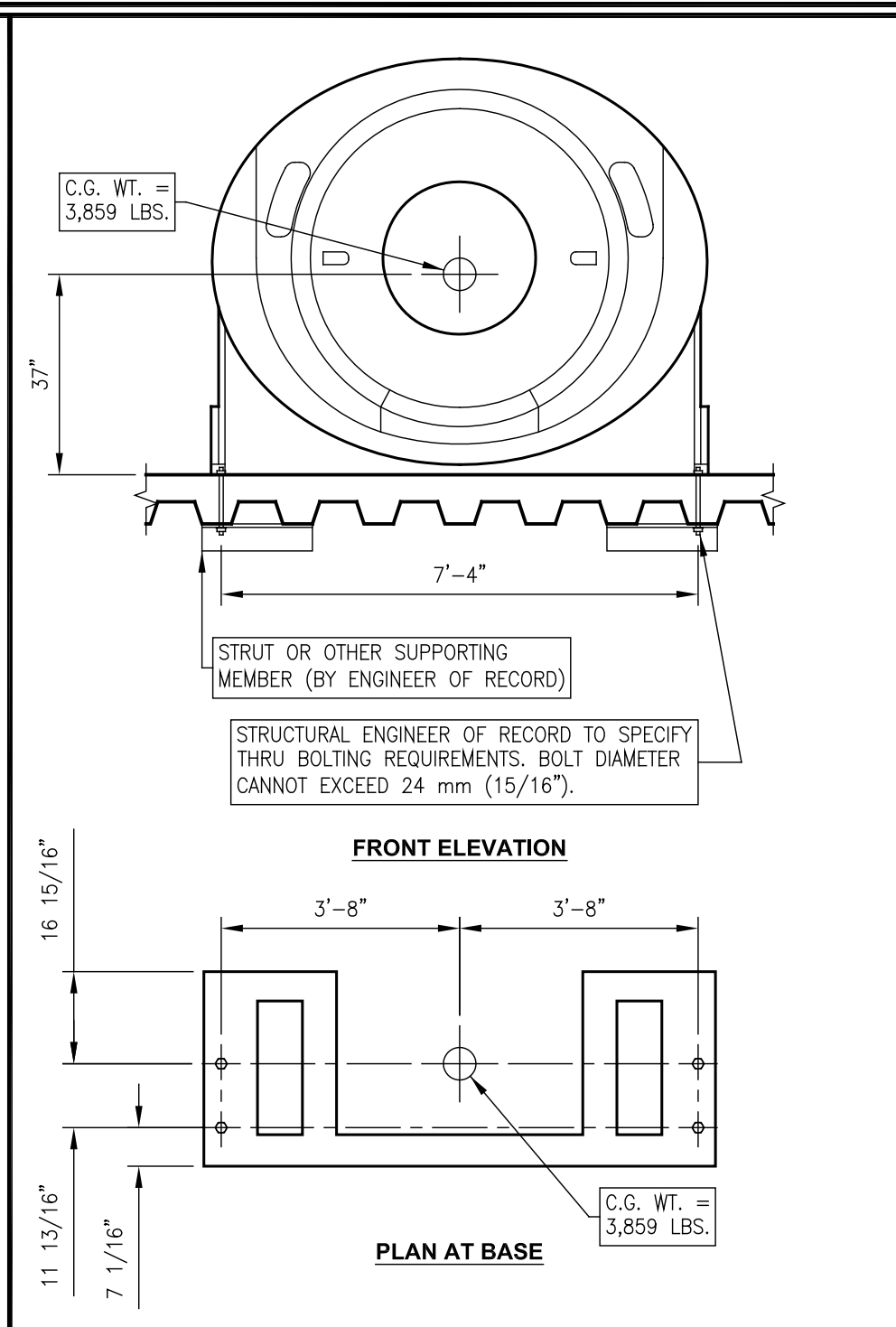
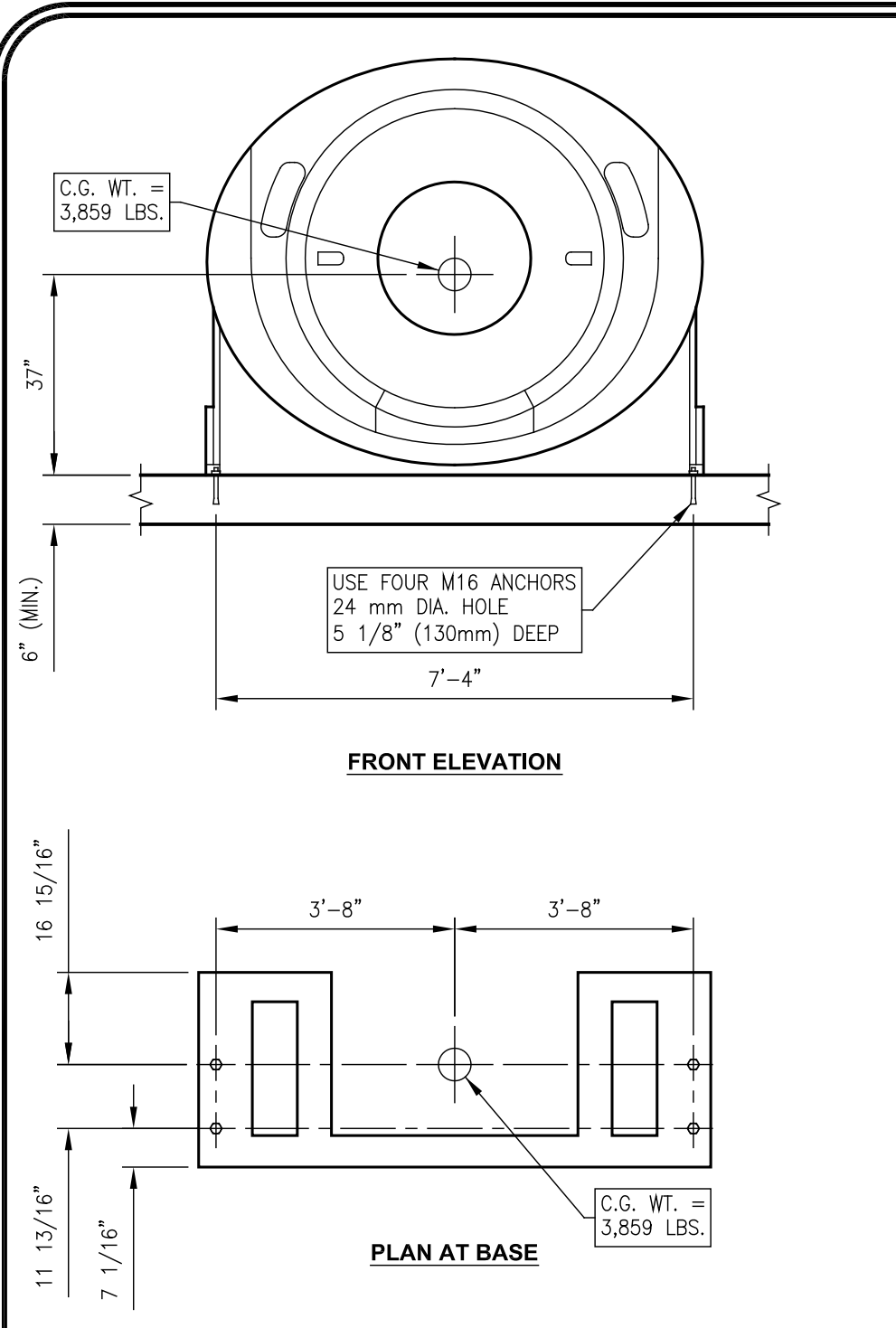
DESCRIPTION	DATE	REV.
ORIGINAL FINAL DRAWINGS COMPLETED.	07-19-13	
UPDATED DWG WITH ARCHITECT LAYOUT.	07-22-13	

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

DATE:	07-22-13
SCALE:	1/4" = 1'-0"
DRAWN:	L.B.C.
SID:	30008345
PROJECT:	130013744CTF1

S1

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



1 AQUILION CT SCANNER GANTRY (SLAB ON GRADE)
SCALE: NOT TO SCALE REVISION: 05-21-09

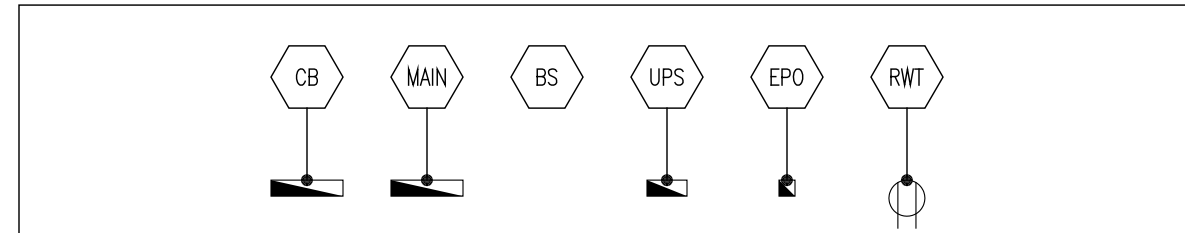
2 AQUILION CT SCANNER GANTRY (SLAB ABOVE GRADE)
SCALE: NOT TO SCALE REVISION: 08-06-10

3 AQUILION PATIENT COUCH - EXTENDED (SLAB ON GRADE)
SCALE: NOT TO SCALE REVISION: 05-21-09

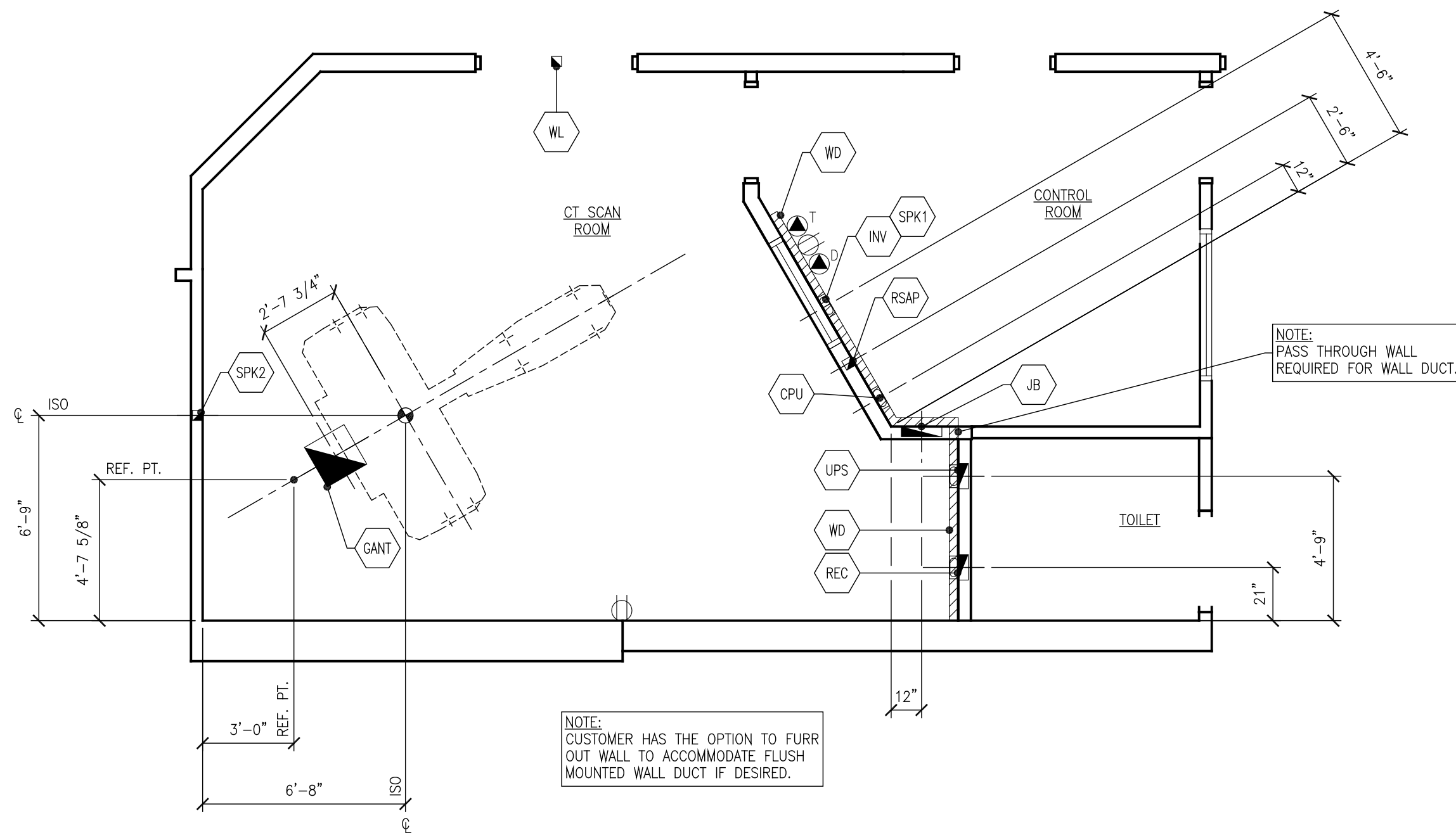
4 AQUILION PATIENT COUCH - EXTENDED (SLAB ABOVE GRADE)
SCALE: NOT TO SCALE REVISION: 08-06-10

TOSHIBA Leading Innovation >>> TOSHIBA AMERICA MEDICAL SYSTEMS INC. www.medical.toshiba.com	INT.	V.H.	L.B.C.
	DESCRIPTION	ORIGINAL FINAL DRAWINGS COMPLETED. NO CHANGES MADE TO THIS SHEET.	
DATE	07-19-13	07-22-13	
REV.	Δ	Δ	
PINNACLE TRISTAN ASSOCIATES AQUILION - VELOCT 32 NORTHEAST DRIVE HERSHEY, PA 17033			
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: 07-22-13			
SCALE: AS NOTED			
DRAWN: L.B.C.			
SID: 30008345			
PROJECT: 130013744CTF1			
S2			

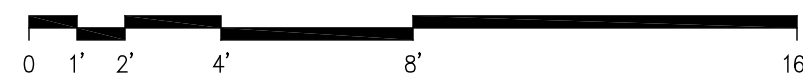
THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



NOTE:
TO BE LOCATED BY CUSTOMER/CONTRACTOR.
ADDITIONAL "EPO" SWITCHES TO BE LOCATED IN ADJACENT ROOMS WITH TOSHIBA EQUIPMENT IF MAIN "EPO" IS NOT ACCESSIBLE (VERIFY WITH LOCAL CODE). ALL "EPO" SWITCHES PROVIDED BY CUSTOMER/CONTRACTOR.



ELECTRICAL LAYOUT



ELECTRICAL LEGEND

ELEC SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	DET. REF.
MAIN	MAIN SERVICE ENTRANCE PANEL.	1 E3
BS	BUILDING STEEL.	1 E3
CB	THREE PHASE CIRCUIT BREAKER PER TOSHIBA POWER SPECIFICATIONS (SEE DETAIL). CIRCUIT BREAKER LOCATION PER CODE REQUIREMENTS BY ELECTRICAL CONTRACTOR.	1 E3
UPS	10" W X 10" H X 4" D J-BOX, RECESSED 4" INTO WALL. MOUNTED 12" A.F.F. TO BOTTOM OF BOX. OPEN TO "WD". FLEX CONDUIT FROM "WD" TO CABINET. SEE TOSHIBA'S POWER QUALITY REQUIREMENTS FOR THE SCANNER.	1 E3
RSAP	4" STD. J-BOX, MOUNTED 50" A.F.F. TO BOTTOM OF BOX. ALSO REQUIRES ELECTRICAL OUTLET ADJACENT TO PANEL FOR POWER.	1 E3
WL	4" STANDARD J-BOX FOR "X-RAY ON" OR WARNING LIGHT MOUNTED ABOVE PATIENT ENTRY DOOR.	4 E3
EPO	4" STANDARD J-BOX FOR REMOTE OFF SWITCH. LOCATED BY CUSTOMER/CONTRACTOR. DPDT, NORMALLY OPEN MUSHROOM HEAD PUSH BUTTON.	1 E3
GANT	18" W X 18" L X 6" D, J-BOX FLUSH MOUNTED IN FLOOR. OPEN TO GANTRY CABLE TRAY.	1 E3
CPU	GROMMETED OPENING IN "WD".	3 E3
SPK1	SHARED GROMMETED OPENING IN "WD".	3 E3
INV	SHARED GROMMETED OPENING IN "WD".	3 E3
REC	10" W X 10" H X 4" D J-BOX, FLUSH MOUNTED. 12" A.F.F. TO BOTTOM OF BOX.	1 E3
SPK2	4" STANDARD J-BOX FOR SCAN ROOM SPEAKER, FLUSH MOUNTED 58" A.F.F. TO BOTTOM OF BOX (IN PROCEDURE ROOM).	1 E3
RWT	CONNECTS TO "GANT".	1 E3
JB	16" W X 16" H X 4" D J-BOX, FLUSH MOUNTED 9" A.F.F. TO BOTTOM OF BOX. OPEN TO "WD".	3 E3
○	110V ELECTRICAL OUTLETS FOR SYSTEM EQUIPMENT AND/OR SERVICE EQUIPMENT. OUTLETS TO BE LOCATED IN EACH ROOM SYSTEM EQUIPMENT IS LOCATED.	1 E3
▲	RJ45 CONNECTOR, CAT5 CABLE TO BE USED FOR NETWORK DATA CONNECTION.	1 E3
●	DEDICATED PHONE LINE SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR. VERIFY LOCATION WITH TOSHIBA REP.	1 E3

ELECTRICAL DUCT LEGEND

ELEC SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	DET. REF.
WD	10" W X 3 1/2" D, FLUSH/SURFACE MOUNTED WALL DUCT W/(3) EQUAL PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. MOUNTED 12" A.F.F. TO BOTTOM OF DUCT.	3 E3

TOSHIBA
Leading Innovation
TOSHIBA AMERICA MEDICAL SYSTEMS INC.
www.medical.toshiba.com

INT. V.H. L.B.C.
DESCRIPTION ORIGINAL FINAL DRAWINGS COMPLETED. UPDATED DWG WITH ARCHITECT LAYOUT.

DATE 07-19-13 07-22-13
REV. A B

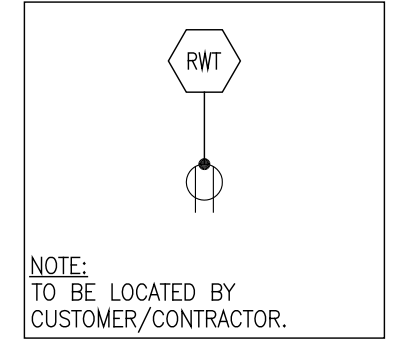
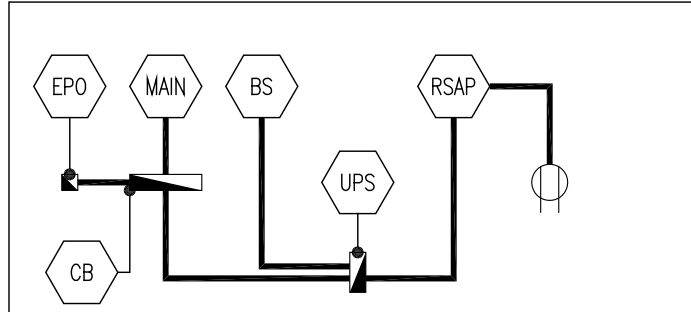
PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

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: 07-22-13
SCALE: 1/4" = 1'-0"
DRAWN: L.B.C.
SID: 30008345
PROJECT: 130013744CTF1

E1

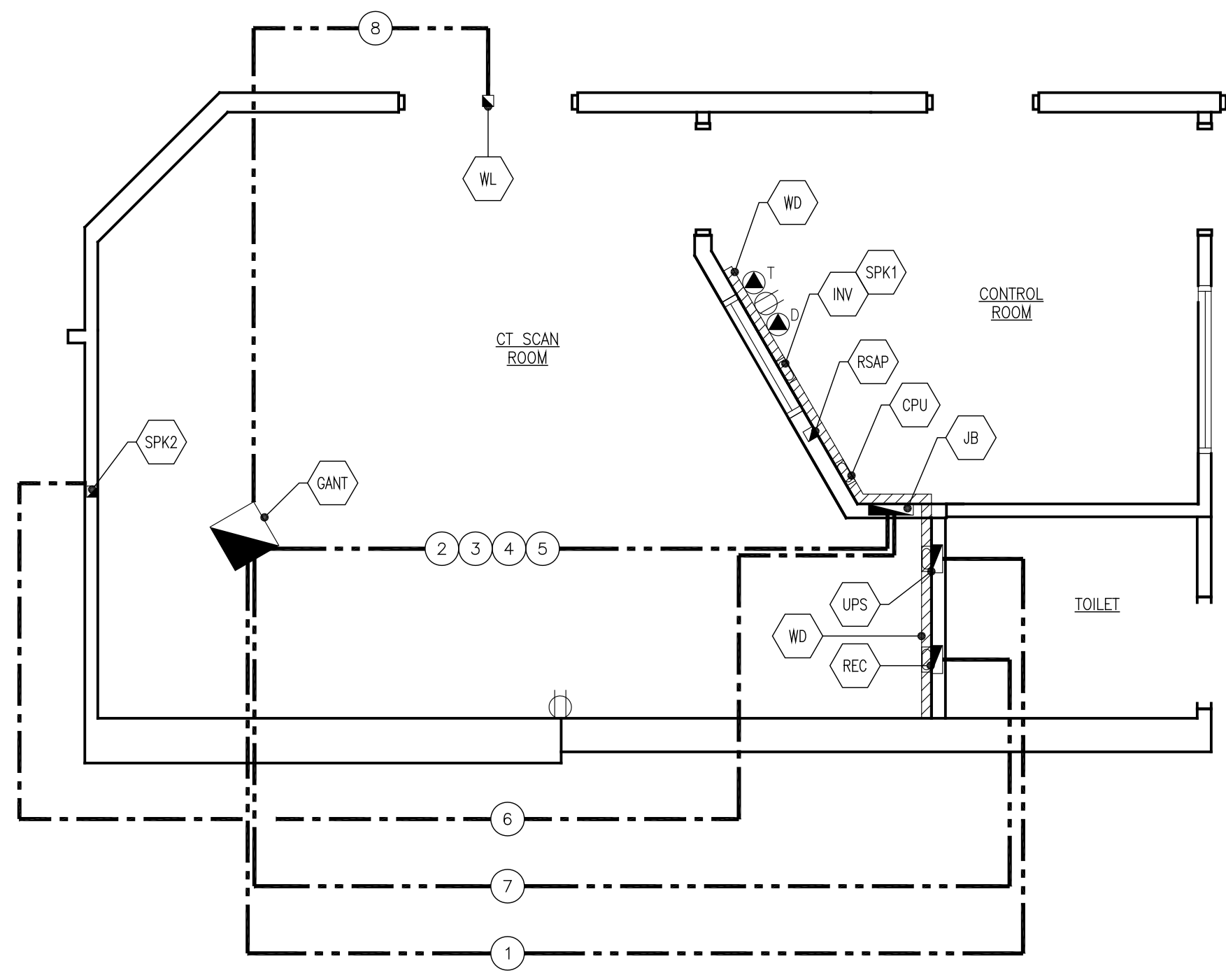
THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



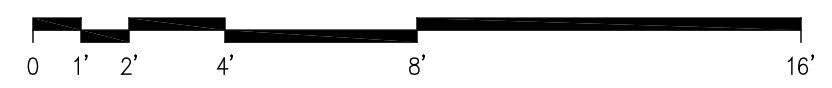
NOTES:
FOR ABOVE CONNECTIONS, SEE DETAIL 1, SHEET E3.




"RSAP" MONITOR MUST BE LOCATED WITHIN 1,000 FEET OF THE "UPS". "RSAP" TO BE INSTALLED BY CUSTOMER'S ELECTRICIAN. CUSTOMER'S ELECTRICIAN MUST PROVIDE 7 TWISTED PAIR 16 AWG CABLE (SIGNAL, 1" CONDUIT IF APPLICABLE), AND 18 AWG WIRE (POWER, 1/2" CONDUIT IF APPLICABLE) FROM "UPS" TO "RSAP".

ALL CABLES AND CONDUITS REQUIRED ARE TO BE PROVIDED BY CUSTOMER/CONTRACTOR.



ELECTRICAL SCHEMATIC 
(PROVIDED FOR REFERENCE PURPOSES ONLY)





CONDUIT KEY	
	IN/UNDER FLOOR
	OVER CEILING
	CONTRACTOR DETERMINED

CONDUIT SCHEDULE

RUN NO.	CONTRACTOR CONDUIT REFERENCE				CABLE REFERENCE			CABLES (SUPPLIED BY)	
	CONDUIT (POINT TO POINT)	CONDUIT (ROUTING)	CONDUIT (DIAMETER)	CONDUIT (MAX. LENGTH)	CABLE (POINT TO POINT)	CABLE LENGTH (MAX. USABLE)			
1	UPS	GANT	IN FLOOR	(2) 2 1/2"	35'-0"	UPS	GANT	SEE RUN "A"*** DETAIL (1/E4)	TOSHIBA
2	GANT	JB	IN FLOOR	2 1/2"	50'-0"	GANT	CPU	SEE RUN "C" DETAIL (1/E4)	TOSHIBA
3	GANT	JB	IN FLOOR	SHARED (2) 3"	42'-0"	GANT	CPU	SEE RUN "D" DETAIL (1/E4)	TOSHIBA
4	GANT	JB				GANT	CPU	59'-0" (FOR "RWT")	TOSHIBA
5	GANT	JB				GANT	INV	SEE RUN "G" DETAIL (1/E4)	TOSHIBA
6	SPK2	JB	OVER CEILING	1/2"	40'-0"	SPK2	CPU	SEE RUN "F" DETAIL (1/E4)	TOSHIBA
7*	REC	GANT	IN FLOOR	2 1/2"	30'-0"	REC	GANT	SEE RUN "K" DETAIL (1/E4)	TOSHIBA
8	WL	GANT	IN FLOOR	PER MANUFACTURER	PER MANUFACTURER	WL	GANT	PER MANUFACTURER	CONTRACTOR

TOSHIBA
Leading Innovation >>>
TOSHIBA AMERICA MEDICAL SYSTEMS INC.
www.medical.toshiba.com

REV.	DATE	DESCRIPTION
	07-19-13	ORIGINAL FINAL DRAWINGS COMPLETED.
	07-22-13	UPDATED DWG WITH ARCHITECT LAYOUT.

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCT
32 NORTHEAST DRIVE
HERSHEY, PA 17033

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.

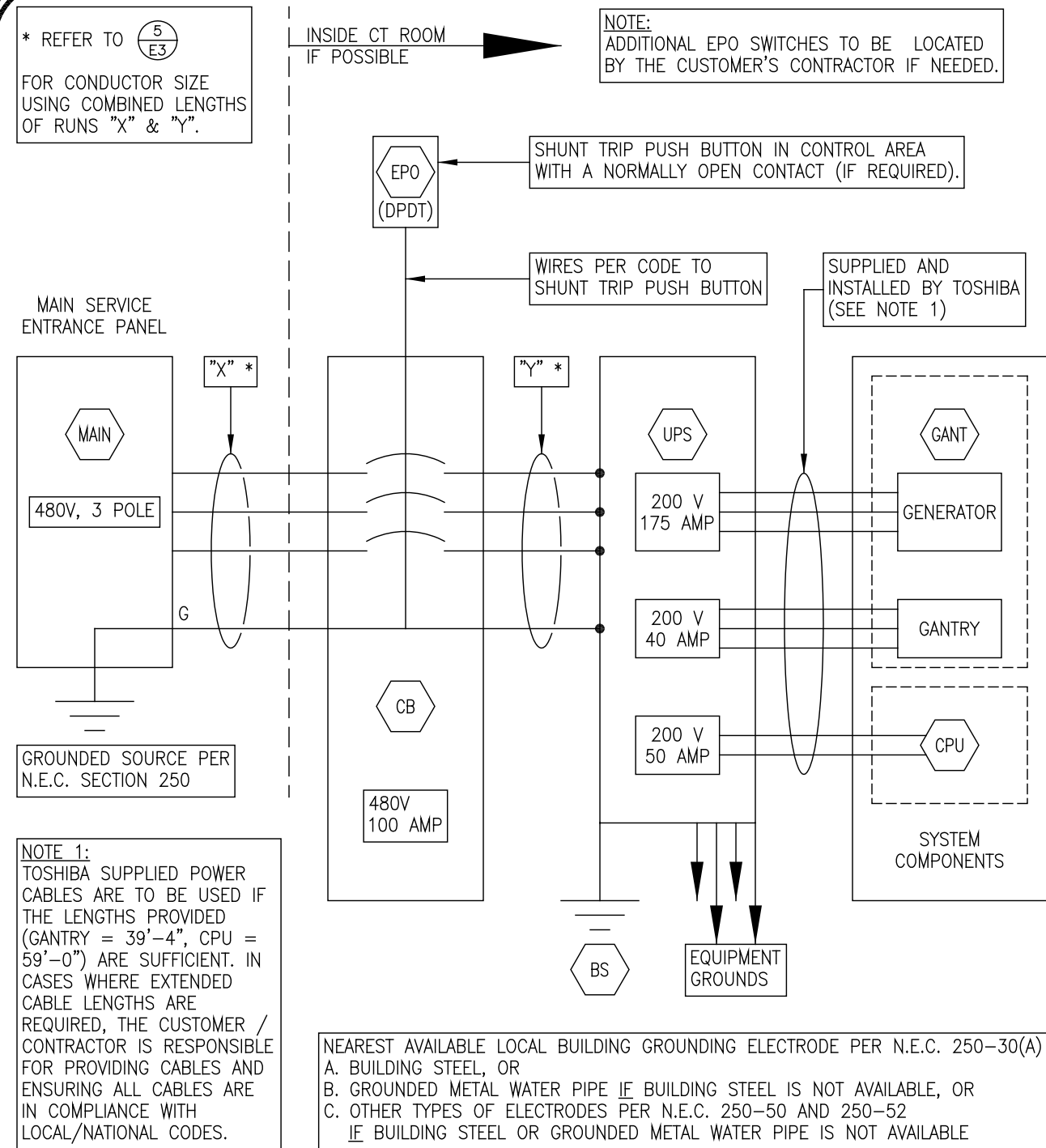
DATE: 07-22-13
SCALE: 1/4" = 1'-0"
DRAWN: L.B.C.
SID: 30008345

PROJECT:
130013744CTF1

E2

NOTE:
A. CONDUITS SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.
B. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
C. *** IF RUN IS GREATER THAN LENGTH SHOWN, CUSTOMER/CONTRACTOR TO PROVIDE CABLES. REFER TO DETAIL 1, SHEET E3.
D. CONDUIT RUN IS NOT TO BE RUN IN SUCH A MANNER THAT WILL ALLOW CABLE POINT TO POINT LENGTHS TO BE EXCEEDED AS SHOWN IN CONDUIT LEGEND.

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



1 **CIRCUIT BREAKER / "UPS" WIRING DIAGRAM**

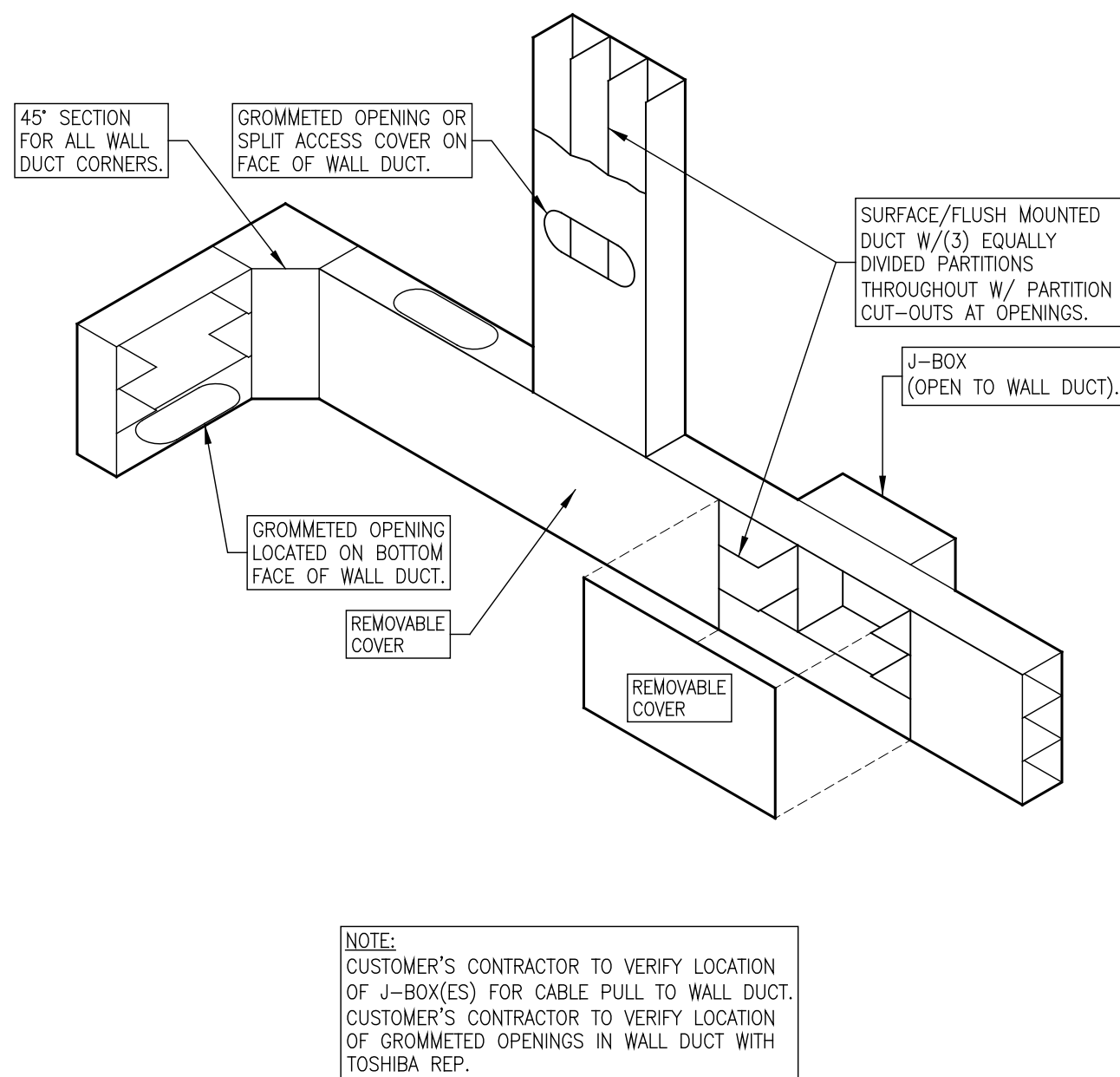
SCALE: NOT TO SCALE

REVISION: 09-14-10

2 **TYPICAL "UPS" J-BOX MOUNTING**

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

REVISION: 09-26-12



3 **TYPICAL DUCTWORK DETAIL WITH WALL DUCT / J-BOX / VERTICAL RISER**

SCALE: NOT TO SCALE

REVISION: 02-25-09

4 **WARNING LIGHT DETAIL**

SCALE: NOT TO SCALE

REVISION: 11-09-07

POWER QUALITY REQUIREMENTS AQUILION CT SCANNER WITH UPS

SUPPLY CONFIGURATION: 3 PHASE, 3 WIRE POWER, DELTA AND GROUND (SEE NOTE A)
 NOMINAL LINE VOLTAGE: 480 VAC, 60 HZ (SEE NOTE B)
 LINE VOLTAGE VARIATION: +15% / -20% STEADY-STATE INCLUDING SAGS AND SURGES
 FREQUENCY VARIATIONS: ±10 HZ
 DEDICATED FEED SUPPLY TRANSFORMER: 150 KVA
 MAXIMUM SYSTEM DEMAND: 100 KVA (IMAGING)

(AWG @ 75°C TEMPERATURE RATING)

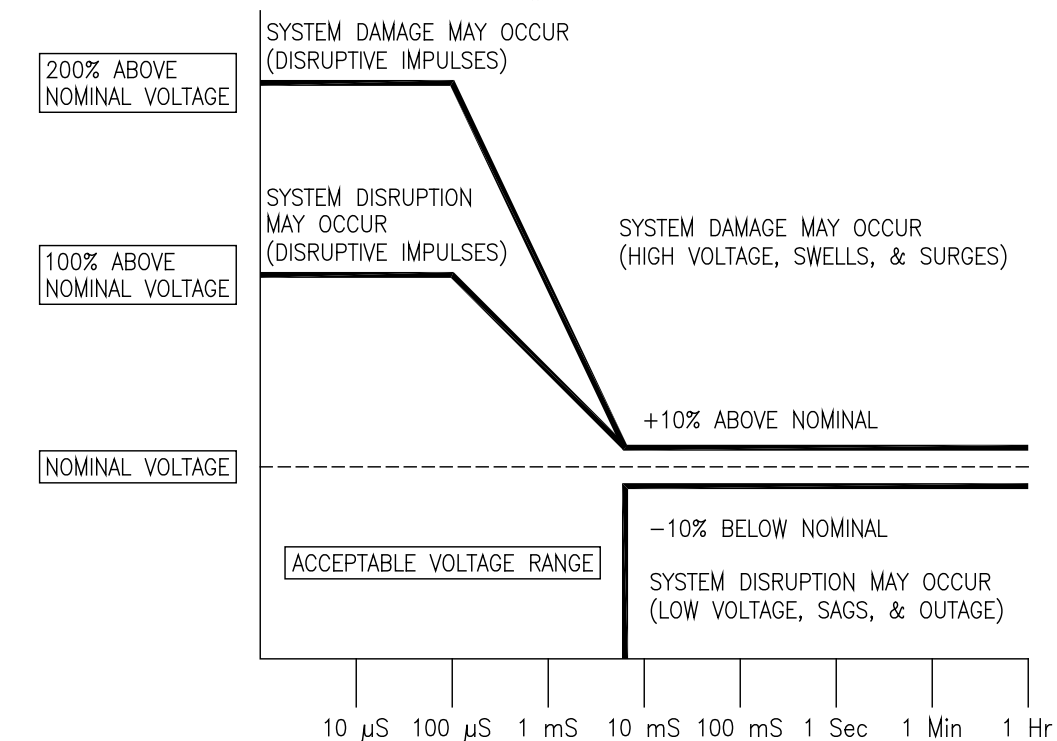
CONDUCTOR SIZE	480 VAC (SEE NOTE B)	BREAKER FRAME SIZE
#2 AWG	218 FT.	200 A
#1 AWG	303 FT.	200 A
1/0 AWG	377 FT.	200 A
2/0 AWG	444 FT.	200 A

CIRCUIT BREAKER SIZE: (SEE NOTE F) 100 A

NOTE: USE AS A TYPICAL REFERENCE ONLY, OR PER LOCAL CODE.

STANDARD POWER QUALITY NOTES

- A GROUNDED NEUTRAL POWER SOURCE IS REQUIRED TO ASSURE RELIABLE EQUIPMENT OPERATION. THE NEUTRAL CONDUCTOR MAY NOT BE USED FOR A PARTICULAR SYSTEM.
- IN CASES WHERE MULTIPLE VOLTAGES ARE PERMITTED, THE PREFERRED SYSTEM VOLTAGE IS SPECIFIED.
- DUE TO THE HIGH INSTANTANEOUS POWER OF MEDICAL IMAGING SYSTEMS, USE THE HIGHEST AVAILABLE VOLTAGE SOURCE. ENSURE THAT LOWER VOLTAGE SOURCES ARE DERIVED DIRECTLY FROM THE SERVICE ENTRANCE OF THE FACILITY.
- GROUND CONDUCTORS ARE REQUIRED TO BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS A LARGER SIZE IS REQUIRED BY CODE.
- ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS MUST BE COPPER - ALUMINUM IS NOT PERMITTED.
- IF THE EQUIPMENT CIRCUIT BREAKER IS NOT LOCATED IN THE CONTROL AREA, A SHUNT TRIP BREAKER MUST BE USED IN ORDER TO COMPLY WITH N.E.C. 517-72(B). A PUSH-BUTTON TO OPERATE THE SHUNT TRIP MUST BE LOCATED IN THE CONTROL AREA.
- 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.
- DEVICES SUCH AS UNINTERRUPTIBLE POWER SUPPLIES, POWER CONDITIONERS, VOLTAGE REGULATORS, AND FILTERS MAY BE INCOMPATIBLE WITH THIS IMAGING EQUIPMENT. CONSULT YOUR TOSHIBA SERVICE REPRESENTATIVE PRIOR TO PURCHASING OR INSTALLING THESE DEVICES.
- THE MAINS POWER GROUND CONDUCTOR IS TO BE RUN WITH THE POWER PHASE CONDUCTORS. THE GROUNDS TO BUILDING STEEL OR EARTH GROUND IS NOT TO BE RUN WITH THE PHASE CONDUCTORS.



5 **POWER QUALITY REQUIREMENTS**

SCALE: NOT TO SCALE

REVISION: 09-26-12

TOSHIBA
 Leading Innovation
 TOSHIBA AMERICA MEDICAL SYSTEMS INC.
 www.medical.toshiba.com

REV.	DATE	DESCRIPTION
Δ	07-19-13	ORIGINAL FINAL DRAWINGS COMPLETED.
▲	07-22-13	NO CHANGES MADE TO THIS SHEET.

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCITY
 32 NORTHEAST DRIVE
 HERSHEY, PA 17033

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: 07-22-13

SCALE: AS NOTED

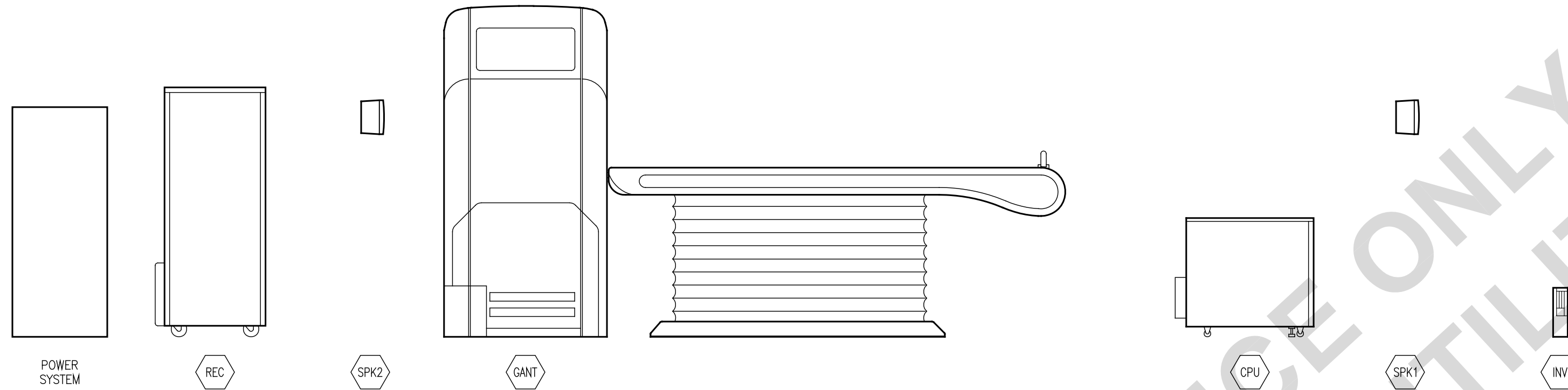
DRAWN: L.B.C.

SID: 30008345

PROJECT:
130013744CTF1

E3

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.



NOTE:
 A. THE FOLLOWING CABLE DIAGRAM IS FOR REFERENCE ONLY AND MAY NOT CONTAIN THE EXACT EQUIPMENT AS SHOWN IN THE ATTACHED DRAWING PACKAGE.
 B. I.P.M. IS RESPONSIBLE FOR ENSURING THAT CABLE LENGTHS MEET THE SITE CONDITIONS. THE I.P.M. IS RESPONSIBLE FOR ORDERING THE REQUIRED CABLES TO MEET EXISTING/PROPOSED SITE CONDITIONS.
 C. ALL CABLE CONNECTIONS SHOWN ARE MAXIMUM LENGTH AND CANNOT BE EXTENDED.
 D. THIRD PARTY ITEM CONNECTIONS TO BE VERIFIED WITH INSTALLATION PROJECT MANAGER.
 E. POWER AND SIGNAL CABLES MUST BE RUN IN SEPARATE CONDUIT. REFER TO SHEET E2.

TOSHIBA
 Leading Innovation >>>
 TOSHIBA AMERICA MEDICAL SYSTEMS INC.
 www.medical.toshiba.com

RUN NO.	CABLE (POINT TO POINT)		CABLE LENGTH (MAX. USABLE)
	FROM	TO	
A	POWER SYSTEM	GANT	39'-4"
		CPU	59'-0"
		GANT	39'-4"
B	POWER SYSTEM	CPU	59'-0"
C	GANT	CPU	55'-9"
D	GANT	CPU	52'-5"
E	CPU	SPK1	26'-2"
		SPK2	52'-5"
F	SPK2	CPU	52'-5"
G	INV	GANT	75'-0"
H	INV	CPU	75'-0"
I	REC	CPU	52'-5"
		CPU	52'-5"
J	REC	CPU	65'-7"
		CPU	65'-7"
		CPU	65'-7"
		CPU	65'-7"
K	REC	GANT	52'-5"
		GANT	36'-1"
		GANT	36'-1"
		GANT	36'-1"

INT.	V.H.	L.B.C.
DESCRIPTION		
ORIGINAL FINAL DRAWINGS COMPLETED.		
NO CHANGES MADE TO THIS SHEET.		
DATE	07-19-13	
REV.	07-22-13	

PINNACLE TRISTAN ASSOCIATES
AQUILION - VELOCIT
 32 NORTHEAST DRIVE
 HERSHEY, PA 17033

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:	07-22-13
SCALE:	NOT TO SCALE
DRAWN:	L.B.C.
SID:	30008345
PROJECT:	130013744CTF1

1 CABLE LENGTH DIAGRAM (FOR INTERNAL USE ONLY)
 SCALE: NOT TO SCALE

REVISION: 06-01-12

E4

THESE DRAWINGS ARE FOR REFERENCE ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.