

Aquilion ONE

VISION EDITION

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**TYPICAL DRAWING
FOR ACHA REGULATED SITES**
(AQUILION – ONE VISION)

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: 07-17-14

SCALE: NOT TO SCALE

PLANNER: SITE PLANNING

PROJECT NO.
TYPICAL

C1

REV	DATE	REVISED SHEET(S)	INT

TOSHIBA
Leading Innovation >>>

FOR REFERENCE ONLY. 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 DESIGNS AND SPECIFICATIONS WITHOUT NOTICE.
- B. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES ARE COMPLIED WITH.
- C. 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.
- D. ANY CABINETS THAT MAY BE REQUIRED TO HOUSE VIDEO RECORDERS, MONITORS, KEYBOARDS, OR OTHER ANCILLARY EQUIPMENT SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- E. PROVIDE ADEQUATE VENTILATION WITHIN CABINETS AND INSTALL AXIAL FANS ON THE TOP, SIDE, OR BACK OF CABINETS, IF REQUIRED.
- F. 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.
- G. DESIGN, FABRICATE, AND INSTALL MEDICAL GAS PEDESTAL, IF REQUIRED. CONSULT WITH TOSHIBA INSTALLATION PROJECT MANAGER FOR SUITABLE LOCATIONS.
- H. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OPERATING PHONE IN THE CONTROL ROOM AT THE TIME TOSHIBA EQUIPMENT INSTALLATION BEGINS.
- I. CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE LIGHTING FOR SERVICING OF EQUIPMENT IN ALL AREAS OF THE INSTALLATION.
- J. 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.
- K. 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.
- 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 WALLS 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 10 MAGNETIC GAUSS FIELD.
- P. THE WINDOW FOR MONITORING THE SCAN ROOM SHOULD BE IN FRONT OF 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).
- NETWORKING REQUIREMENTS**
- S. 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.

- TRANSPORT REQUIREMENTS**
- T. EQUIPMENT INGRESS ROUTE MUST BE CHECKED PRIOR TO EQUIPMENT DELIVERY TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED, PRIOR TO EQUIPMENT DELIVERY. DIMENSIONS OF DOORWAYS SHOULD BE NO LESS THAN 5'-0" CLEAR IN WIDTH. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS PERTAINING TO THE LARGEST AND HEAVIEST COMPONENTS FOR THIS INSTALLATION (SEE DETAIL 2, SHEET GN2).

07-17-14

STRUCTURAL NOTES

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

- 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.
- C. THE TOSHIBA INSTALLATION PROJECT MANAGER SHALL BE NOTIFIED IN WRITING OF ANY FIELD CONDITIONS ENCOUNTERED THAT ARE CONTRADICTORY TO THOSE SHOWN IN THE TOSHIBA SITE PLANS.
- 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 RECORD.
- E. DUE TO THE DYNAMIC NATURE OF THE LOAD, BOTH HORIZONTAL AND VERTICAL ACCELERATION SHOULD BE INCLUDED IN THE DESIGN CALCULATIONS FOR THE SUPPORT STRUCTURE AS WELL AS ANCHORING AND THRU-BOLTING FOR THE TOSHIBA EQUIPMENT.
- F. 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.
- G. UNDER NO CIRCUMSTANCE SHOULD THE TOSHIBA EQUIPMENT BE INSTALLED ON A WOOD FLOOR.

- 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 1, SHEET GN2).

- UNISTRUT NOTES**
- 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.

07-17-14

SPECIAL NOTES

SPECIAL SEISMIC CERTIFICATION

- A. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:
- A.A. OSP-0174-10
GANTRY
AQILION ONE VISION, AQILION ONE 640, AQILION ONE 320: CGGT-030A/1A
AQILION ONE 640: CGGT-024A/1A
AQILION PREMIUM 320: CGGT-024A/1B
AQILION PRIME 160, AQILION PRIME 80: CGGT-027A/1A
AQILION LB: CGGT-020A/1C, CGGT-020A/2A, CGGT-020A/3A
AQILION CX: CGGT-021A/2B
AQILION 64: CGGT-021A/1A
AQILION 32: CGGT-021A/2A
AQILION RXL: CGGT-018B/1A, CGGT-018B/2A
AQILION 16/8/4: CGGT-018A/1C
- PATIENT COUCH**
AQILION ONE VISION, AQILION ONE 640, AQILION ONE 320:
CBTB-026A/1A (EXTENDED), CBTB-032A/1A (EXTENDED)
CBTB-026B/1A (COMPACT), CBTB-032B/1A (COMPACT)
AQILION ONE 640, AQILION PREMIUM 320: CBTB-021A/1A (EXTENDED)
AQILION ONE 640, AQILION PREMIUM 320: CBTB-021B/1A (COMPACT)
AQILION ONE 640, AQILION PRIME 80: CBTB-026A/1A (EXTENDED)
AQILION PRIME 160, AQILION PRIME 80: CBTB-026B/1A (COMPACT)
LATERAL MOVEMENT UNIT: CALL-001A/1C (OPTIONAL)
AQILION LB EXTENDED: CBTB-020A/1A, CBTB-030A/1A, CBTB-032A/2A
AQILION LB COMPACT: CBTB-020B/1A, CBTB-030B/1A, CBTB-032B/2A
AQILION 64/32: CBTB-019A (EXTENDED), CBTB-019B (COMPACT)
AQILION RXL EXTENDED: CBTB-028A/1A, CBTB-032A/3A
AQILION RXL COMPACT: CBTB-028B/1A, CBTB-032B/3A
AQILION 16/8/4: CBTB-016A/1A (EXTENDED), CBTB-016B (COMPACT)
- POWER DISTRIBUTION**
AQILION ONE VISION, AQILION ONE 640, AQILION ONE 320: CETF-010A/1A
AQILION ONE 640, AQILION PREMIUM 320: CETF-006A/2A
AQILION PRIME 160, AQILION PRIME 80: CETF-006A/3A
AQILION LB, AQILION RXL: CETF-006A/6A, CETF-006A/7A
- CPU & RECONSTRUCTION UNIT(S)**
AQILION ONE VISION, AQILION ONE 640, AQILION ONE 320: CKCN-015B/5A
AQILION ONE 640: CKCN-015A/1A, CKCN-015A/2A
AQILION PREMIUM 320: CKCN-015A/2A
AQILION PRIME 160, AQILION PRIME 80: CKCN-016A/2A, CKCN-016A/5A
AQILION LB: CKCN-012C/5A, CKCN-016B/5A
AQILION CX/64/32: CKCN-012B/5A
AQILION VELOCT: CKCN-016C/1A, CKCN-016C/3A
AQILION RXL: CKCN-016B/4A
AQILION 16/8/4: CKCN-012C/7A, CKCN-012B/5A, CKCN-012C/5A
- 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 (AS APPLICABLE)
- B.D. OSP-0088-10
BAT - B043 (WHEN PAIRED WITH G8000) (AS APPLICABLE)
BAT - B055 (WHEN PAIRED WITH 9390) (AS APPLICABLE)
- B.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.

07-17-14

FLORIDA ELECTRICAL NOTES

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

- A. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL ALL ELECTRICAL CONDUITS AND DUCT WORK. FIELD VERIFY PRIOR TO INSTALLATION.
- B. MAINTAIN REDUNDANT GROUNDING THROUGHOUT CONDUIT RUNS AND TROUGHING SYSTEM.
- C. DIVIDERS MUST BE PRESENT THROUGHOUT ENTIRE TROUGHING SYSTEM INCLUDING ELBOWS AND TEE JUNCTIONS.
- D. TUNNELING DEVICES TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- E. ELECTRICIAN REQUIRED TO BE ON SITE DURING INSTALLATION IN ORDER TO RUN TUNNELS AS NECESSARY.
- F. FLEX CONDUIT TO BE USED FOR CLASS 1 POWER CABLES. CHASE NIPPLE OUTLETS TO BE USED FOR ALL CABLE CLASSES (1, 2, 3).
- G. ALL FLEX CONDUIT TO HAVE 90 DEGREE FITTINGS AND CHASE NIPPLE OUTLETS.
- H. FLEX CONDUIT MUST NOT EXCEED 6'-0" MAXIMUM LENGTH.
- I. FIELD VERIFY COMPARTMENT TO WHICH THE FLEX CONDUIT WILL ATTACH PRIOR TO INSTALLATION.
- J. CONTRACTOR TO SUPPLY AND INSTALL STANDARD GROUNDED BUSHINGS AT TERMINATION POINTS OF ALL CONDUIT AND DUCT RUNS.
- K. DUCT SECTIONS NOT BONDED TOGETHER MUST BE GROUNDED SEPARATELY.
- L. CONTRACTOR IS RESPONSIBLE FOR ALL KNOCKOUTS IN THE EQUIPMENT AND IN THE TROUGHING FOR STANDARD AND FLEX CONDUIT CONNECTIONS AND CHASE NIPPLE OUTLETS.
- M. CUSTOMER IS RESPONSIBLE FOR ADHERENCE TO STATE AND LOCAL CODES, AND FOR ANY CHARGES DUE TO MEETING STATE AND LOCAL CODES.

07-17-14

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, 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 THE VENDOR.
- 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 A CONCENTRATED LOAD OF 200 LBS.
- 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/NYLON BUSHINGS.
- K. ALL WALL DUCT WORK SHALL HAVE THE MINIMUM NUMBER OF COMPARTMENTS SPECIFIED IN THE ELECTRICAL DUCT LEGEND (SHEET E1). TRANSITIONS SUCH AS HORIZONTAL TO VERTICAL WALL DUCT OR WALL DUCT TO 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 FOR REFERENCE 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 MTW MULTI-STRAND COPPER - NO ALUMINUM IS PERMITTED. CABLE SIZE MUST BE IN ACCORDANCE WITH TOSHIBA POWER QUALITY REQUIREMENTS. (SEE SHEET E3).
- 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.
- U. ALL DUCT WORK MAKING A 90° ANGLE MUST BE CHAMFERED FOR CABLE ACCESS.
- V. JUNCTION BOX SIZES SPECIFIED ON SHEET E1 MAY BE INCREASED AS NEEDED.
- W. FIBER OPTIC CABLES REQUIRE A MINIMUM RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT.

07-17-14

TOSHIBA POWER & ENVIRONMENTAL QUALITY NOTIFICATION / ASSESSMENT

- A. 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.

07-17-14

NETWORK REQUIREMENTS

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

- DUE TO THE LARGE DATA SETS GENERATED BY THE AQILION'S HIGH SPEED SCANS, AN OPTIMIZED COMPUTER NETWORK ENVIRONMENT IS NECESSARY TO MAINTAIN FAST IMAGE TRANSFER SPEEDS. THE TWO REQUIREMENTS ARE:

- HIGH SPEED NETWORK. GIGABIT ETHERNET BETWEEN THE AQILION AND ITS NETWORK PEERS.
- UNCLUTTERED NETWORK ENVIRONMENT. THE AQILION'S IMMEDIATE NETWORK ENVIRONMENT, INCLUDING CONNECTION TO VITAL WORKSTATION AND MCKESSON THIN SLICE IMAGE CACHE, SHOULD BE ON AN ISOLATED NETWORK SEGMENT FREE OF BROADCASTS AND EXTRANEOUS TRAFFIC. THIS CAN BE ACHIEVED BY VLAN, FIREWALLS, OR SIMILAR TECHNOLOGIES. T.A.M.S. SERVICE NETWORKING SUPPORT TEAM CAN PROVIDE SUGGESTIONS, BUT CUSTOMER WILL NEED TO MAKE ITS OWN INDEPENDENT DETERMINATION ABOUT THE ADEQUACY OF SUCH ITEMS. TOSHIBA WILL NOT BE RESPONSIBLE FOR ANY ISSUES ARISING OUT OF THE NETWORK ENVIRONMENT.

ADDITIONALLY, REMOTE SERVICE AND SUPPORT IS PROVIDED BY VPN. TOSHIBA REQUIRES FULL-TIME BIDIRECTIONAL CONNECTION. PLEASE SEE TOSHIBA CONNECTIVITY WHITEPAPER FOR SUPPORTED VPN METHODOLOGIES. ANCILLARY EQUIPMENT VENDORS SUCH AS VIT AND MCKESSON, MAY REQUIRE THEIR OWN REMOTE SERVICE CONNECTION.

07-17-14

ELECTRICAL REQUIREMENTS FOR AQILION

SUPPLY CONFIGURATION: 3 PHASE DELTA OR WYE
SUPPLY VOLTAGE: 480V, 150 AMP, 60 HZ
DISTRIBUTION CAPACITY: 150 KVA

07-17-14

VIBRATION SPECIFICATION

GANTRY
0.98 M/S² (0.1 G) OR LESS

07-17-14

CEILING HEIGHT

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

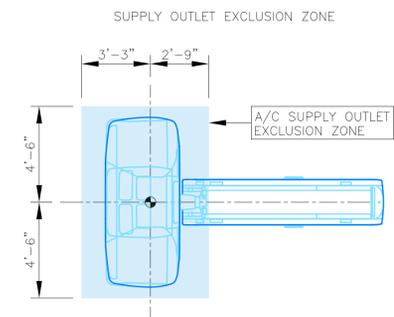
07-17-14

HVAC REQUIREMENTS

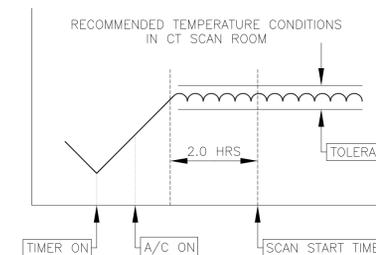
CUSTOMER TO PROVIDE THE NECESSARY HVAC REQUIREMENTS FOR THE TOSHIBA EQUIPMENT TO OPERATE PROPERLY.

AMBIENT TEMPERATURE SHOULD BE 68"-74" F
WITH EQUIPMENT HEAT LOADS (SEE EQUIPMENT LEGEND SHEET A1)
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. AIR SUPPLY DUCTS SHOULD NOT BE PLACED DIRECTLY OVER EXAMINATION TABLES FOR PATIENT COMFORT.



- D. EQUIPMENT IN ENCLOSED SPACES SUCH AS EQUIPMENT ROOMS, TRANSFORMER CLOSETS AND COMPUTER ROOMS MUST BE PROVIDED WITH ADEQUATE VENTILATION.
- E. THE AIRFLOW THROUGH TOSHIBA EQUIPMENT CABINETS IS FROM BOTTOM TO TOP.
- F. WHERE POSSIBLE, AIR CONDITIONING SUPPLY OUTLETS SHOULD BE LOCATED AT FLOOR LEVEL. NO AIR CONDITIONING OUTLET SHOULD BE WITHIN THE EXCLUSION ZONE SHOWN BELOW AND AT NO TIME SHOULD THE CT SYSTEM BE EXPOSED TO DIRECT AIRFLOW.
- G. RETURN GRILLES ARE TO BE INSTALLED IN THE CEILING.
- H. A/C SUPPLY OUTLET TO BE PROVIDED BY CUSTOMER AT FLOOR LEVEL AT CONTROL ROOM DESK.
- I. DUE TO HEAT GENERATED BY THE "CPU" UNIT, ADDITIONAL VENTILATION IN THE CONTROL AREA IS REQUIRED. CUSTOMER/CONTRACTOR PROVIDED FAN(S) MAY BE NECESSARY BELOW THE DESKTOP FOR TECHNICIAN COMFORT. THE "CPU" UNIT SHOULD NOT BE ENCLOSED IN CASEWORK.



- J. IN GENERAL, THE SCANNING ROOM MUST BE PROVIDED WITH AN INDEPENDENT AIR CONDITIONING SYSTEM. EVEN IF THE ROOM IS MAINTAINED WITHIN THE PERMISSIBLE TEMPERATURE RANGE, GRADUAL TEMPERATURE SHIFTS (FOR EXAMPLE, A SLOW INCREASE IN ROOM TEMPERATURE FROM MORNING TO EVENING) MAY ADVERSELY AFFECT SYSTEM PERFORMANCE. THEREFORE, THE ROOM TEMPERATURE MUST BE KEPT UNDER CONSTANT CONTROL (WITHIN ±3°F) AS SHOWN IN THE ABOVE FIGURE.
- K. THE AIR CONDITIONING SYSTEM IN THE SCANNING ROOM MUST BE INSTALLED SO THAT THE CT SYSTEM IS NOT EXPOSED TO DIRECT AIRFLOW. FAILURE TO DO SO MAY CAUSE THE TEMPERATURE INSIDE THE CT SYSTEM TO FLUCTUATE, POSSIBLY AFFECTING THE DISPLAYED IMAGES ADVERSELY.

REV	DATE	DESCRIPTION

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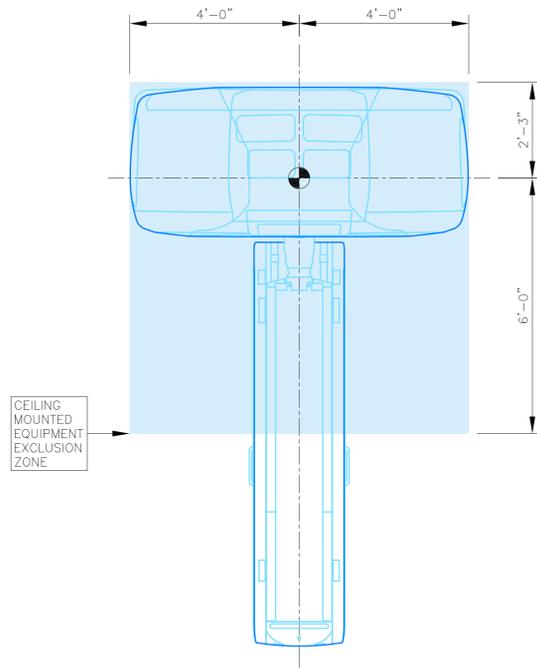
MINIMUM SITE REQUIREMENTS CHECKLIST

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

NOTICE:
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:	



- 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).

1 CEILING MOUNTED EQUIPMENT

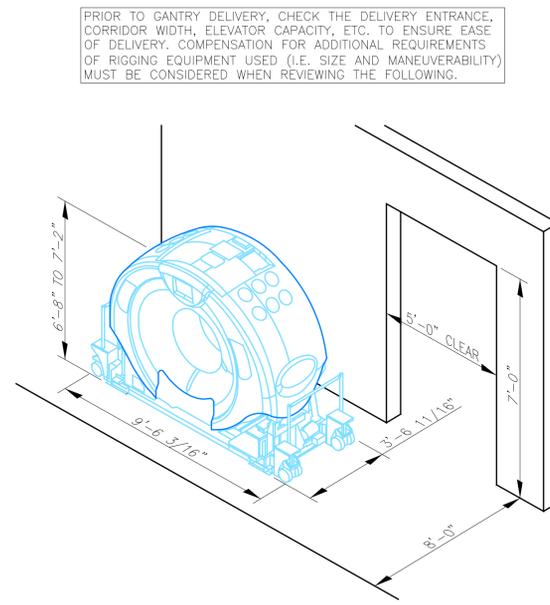
SCALE: 1/2" = 1'-0"

07-17-14

2 RECOMMENDED GANTRY DELIVERY REQUIREMENTS

SCALE: NOT TO SCALE

07-17-14



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

- RECOMMENDED HEIGHT OF ENTRY WAY DOORS: 7'-0"
- RECOMMENDED WIDTH OF ENTRY WAY DOORS: 5'-0"
- RECOMMENDED WIDTH OF CORRIDOR: 8'-0"



REV	DATE	DESCRIPTION	INT

TYPICAL DRAWING FOR ACHA REGULATED SITES
 (AQUILION - ONE VISION)

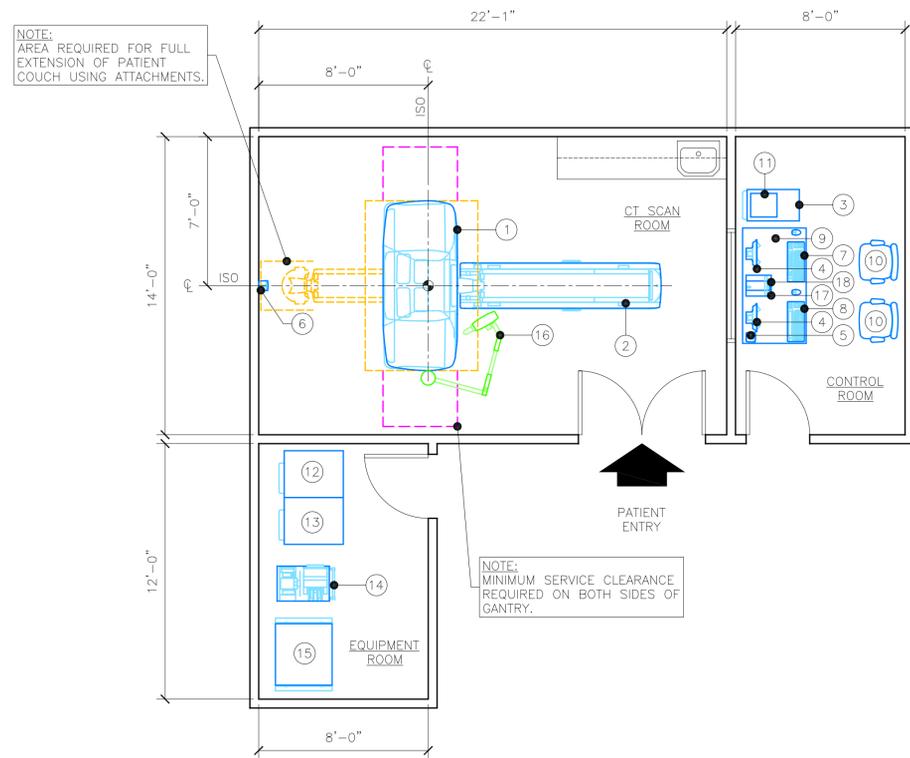
THESE TOSHIBA PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT AGREED UPON BETWEEN TOSHIBA AND THE CUSTOMER. THESE SITE PLANS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

DATE: 07-17-14
 SCALE: NOT TO SCALE
 PLANNER: SITE PLANNING

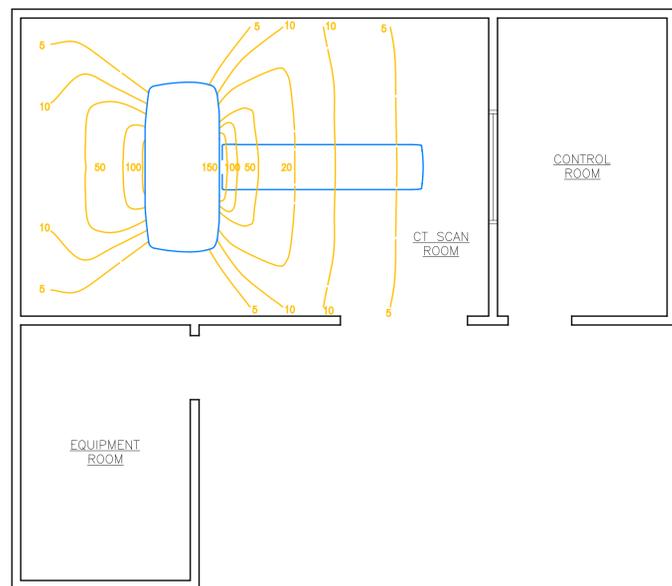
PROJECT NO.
TYPICAL

GN2

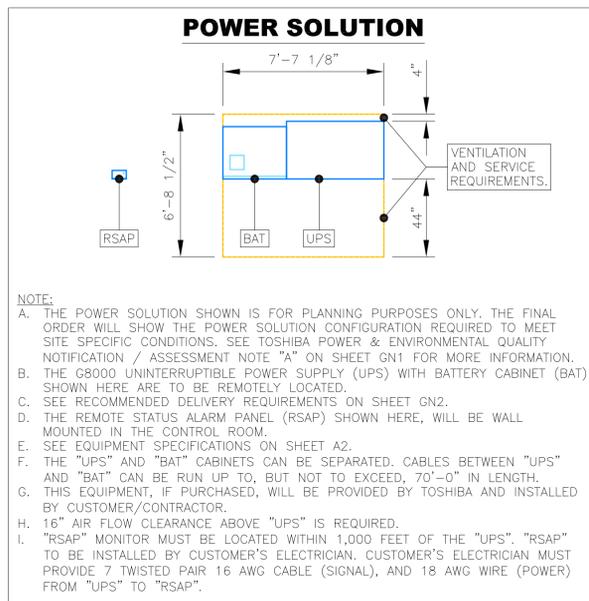
FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.



TYPICAL EQUIPMENT LAYOUT



SCATTER RADIATION FIELD

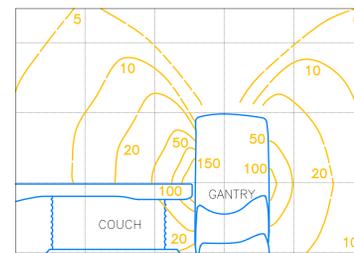


POWER SOLUTION

NOTE:
 A. THE POWER SOLUTION SHOWN IS FOR PLANNING PURPOSES ONLY. THE FINAL ORDER WILL SHOW THE POWER SOLUTION CONFIGURATION REQUIRED TO MEET SITE SPECIFIC CONDITIONS. SEE TOSHIBA POWER & ENVIRONMENTAL QUALITY NOTIFICATION / ASSESSMENT NOTE "A" ON SHEET GN1 FOR MORE INFORMATION.
 B. THE G8000 UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH BATTERY CABINET (BAT) SHOWN HERE ARE TO BE REMOTELY LOCATED.
 C. SEE RECOMMENDED DELIVERY REQUIREMENTS ON SHEET GN2.
 D. THE REMOTE STATUS ALARM PANEL (RSAP) SHOWN HERE, WILL BE WALL MOUNTED IN THE CONTROL ROOM.
 E. SEE EQUIPMENT SPECIFICATIONS ON SHEET A2.
 F. THE "UPS" AND "BAT" CABINETS CAN BE SEPARATED. CABLES BETWEEN "UPS" AND "BAT" CAN BE RUN UP TO, BUT NOT TO EXCEED, 70'-0" IN LENGTH.
 G. THIS EQUIPMENT, IF PURCHASED, WILL BE PROVIDED BY TOSHIBA AND INSTALLED BY CUSTOMER/CONTRACTOR.
 H. 16" AIR FLOW CLEARANCE ABOVE "UPS" IS REQUIRED.
 I. "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), AND 18 AWG WIRE (POWER) FROM "UPS" TO "RSAP".

NOTE:
 VITREA WORKSTATION MUST MAINTAIN A ONE GIGABIT ETHERNET CONNECTION AT ALL TIMES.

NOTE:
 DELIVERY ROUTE MUST BE VERIFIED WITH TOSHIBA REPRESENTATIVE DUE TO GANTRY SIZE.



SCATTER RADIATION

UNITS: MICROGRAY (PER 100 mAs)

THE AMOUNT OF SCATTERED RADIATION DURING SCANNING IS SHOWN IN THE SCATTER RADIATION FIELD 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 BELOW SHOULD BE USED ONLY AS A GUIDE.

120 kVp/100 mA/1.0 sec/M F0V/0.5 mm X 80/320 mm PMMA PHANTOM

THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR HAVING SHIELDING CALCULATIONS PREPARED BY A LICENSED RADIATION PHYSICIST.

THE ABOVE CALCULATION IS BASED ON A MULTI-SLICE EXPOSURE. REVISED: 07-17-14

EQUIPMENT LEGEND

ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
1	GANT	AQUILION GANTRY	*	6,063	1 A2
2	PCH	AQUILION HIGH CAPACITY PATIENT COUCH (STANDARD)	*	1,544	1 A2
3	CPU	CENTRAL PROCESSING UNIT (TYPE A)	5,123	276	2 A2
4	MON	CONTROL MONITOR	192	18	4 A2
5	SPK1	SPEAKER (DESKTOP)	0	5	5 A2
6	SPK2	SPEAKER (WALL MOUNT)	0	5	5 A2
7	SKBD	KEYBOARD (SCAN)	0	6	-
8	DKBD	KEYBOARD (DISPLAY)	0	6	-
9	DESK	DESK FOR MONITORS & KEYBOARDS	0	221	6 A2
10	CHR	CHAIR	0	55	-
11	INV	INNERVISION WORKSTATION	T.B.D.	17	7 A2
12	REC1	AQUILION RECONSTRUCTION CABINET 1	26,041	816	3 A2
13	REC2	AQUILION RECONSTRUCTION CABINET 2 (BTU'S COMBINED WITH "REC1")	-	728	3 A2
14	PR	PHANTOM RACK (MOBILE CART TO TRANSPORT PHANTOMS)	0	287	9 A2
ITEM	ELEC. SYM.	ITEM DESCRIPTION - SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.
15	PD	POWER DISTRIBUTOR	4,777	1,654	8 A2
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED & INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
16	INJ	MEDRAD INJECTOR (CEILING MOUNTED)	0	153	-
17	INJC	MEDRAD INJECTOR BASE UNIT	320	14	-
18	INJR	MEDRAD INJECTOR DISPLAY CONTROL UNIT W/STAND	0	9	-
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.

*** AQUILION GANTRY & COUCH BTU / HOUR:**

EXAM ROOM SCANNING 2 PATIENTS:	20,712 BTU/HR
EXAM ROOM SCANNING 3 PATIENTS:	21,991 BTU/HR
EXAM ROOM SCANNING 4 PATIENTS:	23,271 BTU/HR
EXAM ROOM SCANNING 5 PATIENTS:	24,550 BTU/HR
EXAM ROOM SCANNING MAXIMUM:	25,830 BTU/HR

FUTURE GROWTH OF FACILITY MUST BE CONSIDERED WHEN FORECASTING PATIENT NUMBERS FOR A/C REQUIREMENTS.

REVISED: 07-17-14

TOSHIBA
Leading Innovation >>>

TYPICAL DRAWING FOR ACHA REGULATED SITES
(AQUILION - ONE VISION)

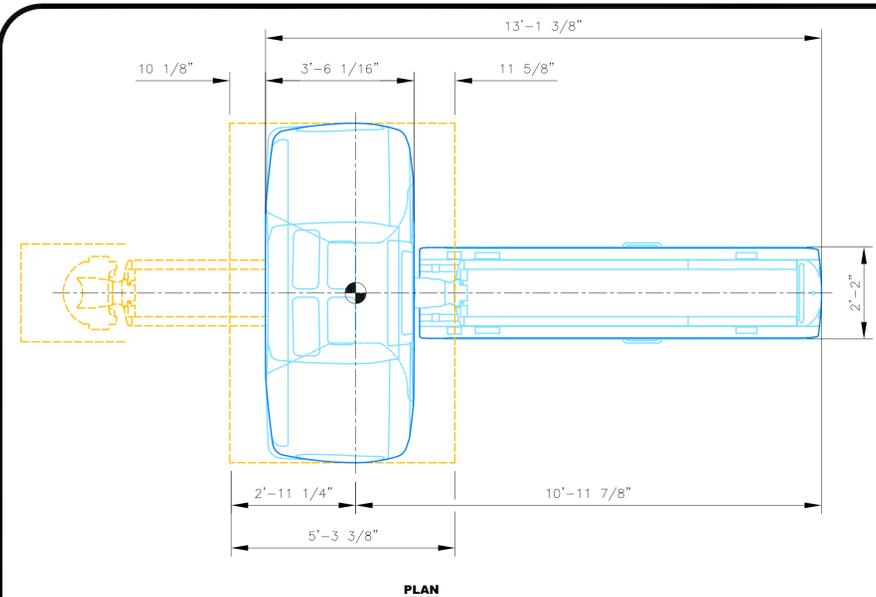
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DATE: 07-17-14
 SCALE: 1/4" = 1'-0"
 PLANNER: SITE PLANNING

PROJECT NO. **TYPICAL**

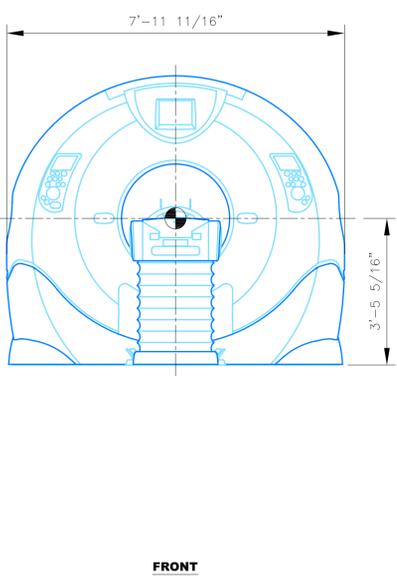
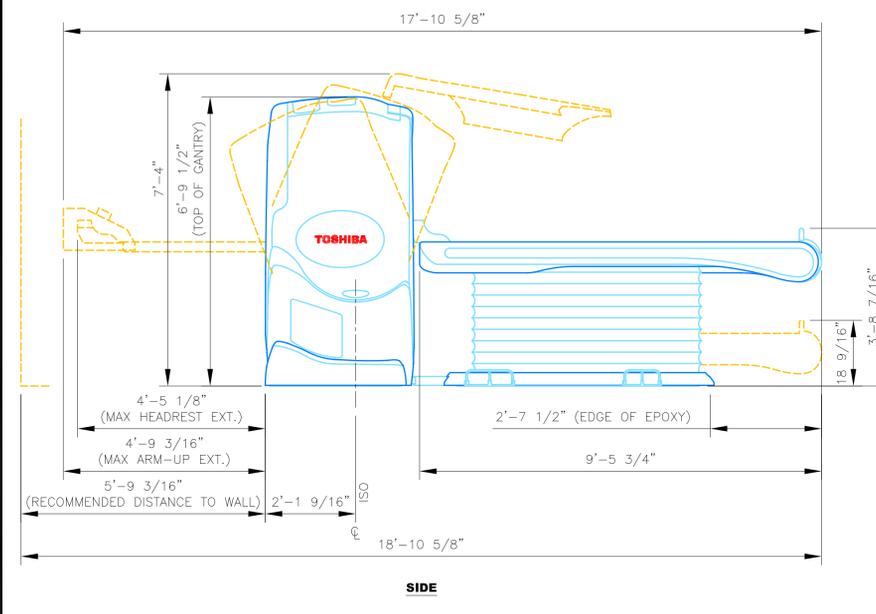
A1

FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.

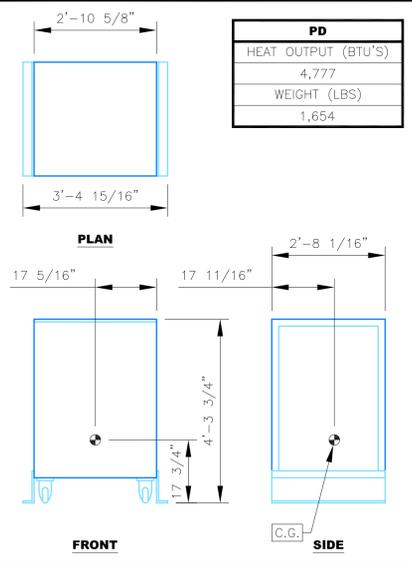


GANT	
HEAT OUTPUT (BTU'S)	SEE SHEET A1
WEIGHT (LBS)	6,063

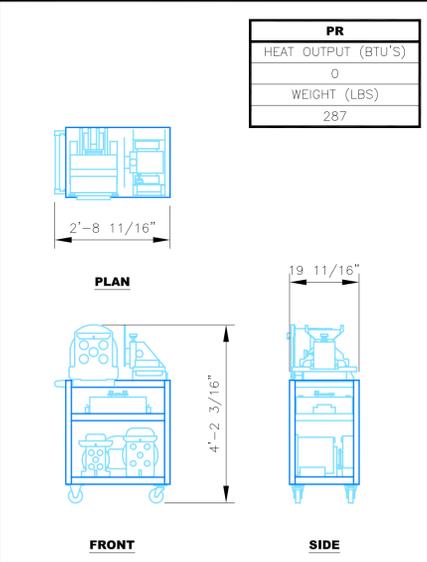
PCH	
HEAT OUTPUT (BTU'S)	SEE SHEET A1
WEIGHT (LBS)	1,544



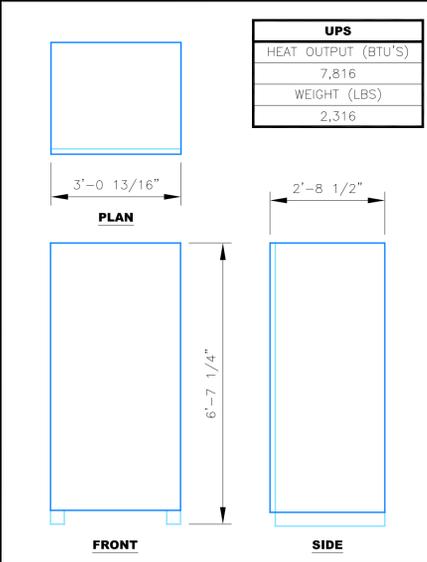
1 AQUILION CT SCANNER -GANTRY AND PATIENT COUCH (STANDARD)
SCALE: 1/2" = 1'-0" 07-17-14



PD	
HEAT OUTPUT (BTU'S)	4,777
WEIGHT (LBS)	1,654



PR	
HEAT OUTPUT (BTU'S)	0
WEIGHT (LBS)	287

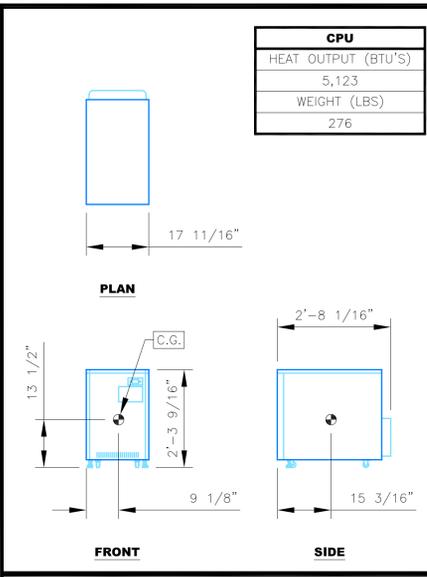


UPS	
HEAT OUTPUT (BTU'S)	7,816
WEIGHT (LBS)	2,316

8 POWER DISTRIBUTOR
SCALE: 1/2" = 1'-0" 07-17-14

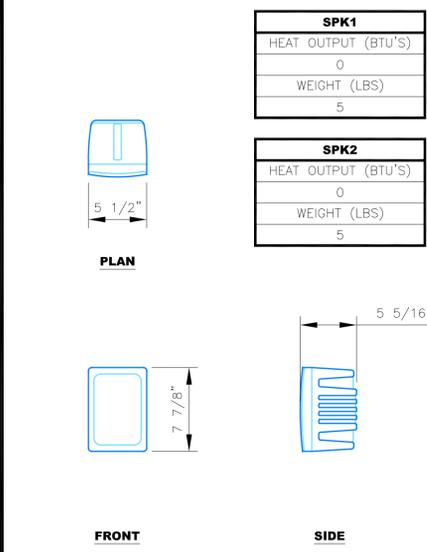
9 PHANTOM RACK
SCALE: 1/2" = 1'-0" 07-17-14

10 G8000 UNINTERRUPTIBLE POWER SUPPLY
SCALE: 1/2" = 1'-0" 07-17-14



CPU	
HEAT OUTPUT (BTU'S)	5,123
WEIGHT (LBS)	276

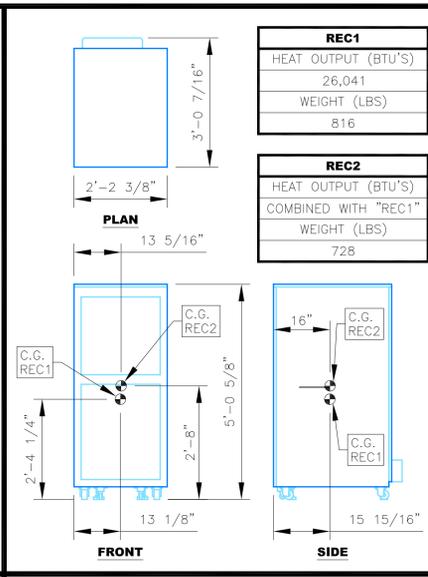
2 CENTRAL PROCESSING UNIT
SCALE: 1/2" = 1'-0" 07-17-14



SPK1	
HEAT OUTPUT (BTU'S)	0
WEIGHT (LBS)	5

SPK2	
HEAT OUTPUT (BTU'S)	0
WEIGHT (LBS)	5

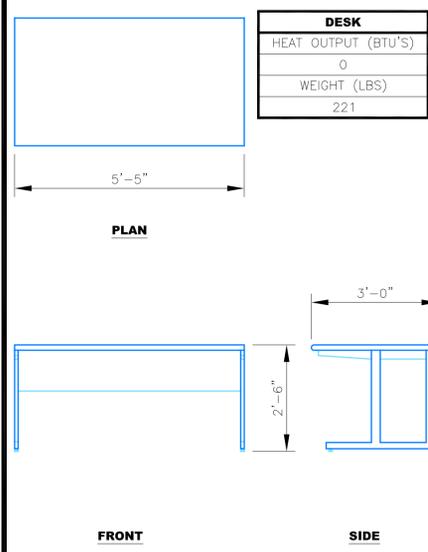
5 SPEAKER(S)
SCALE: 1 1/2" = 1'-0" 07-17-14



REC1	
HEAT OUTPUT (BTU'S)	26,041
WEIGHT (LBS)	816

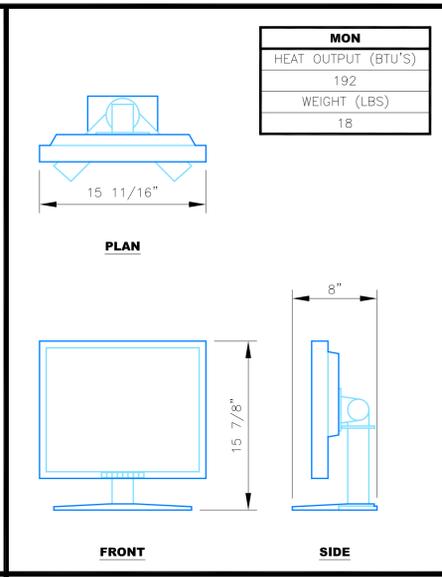
REC2	
HEAT OUTPUT (BTU'S) COMBINED WITH "REC1"	728
WEIGHT (LBS)	

3 RECONSTRUCTION UNIT
SCALE: 1/2" = 1'-0" 07-17-14



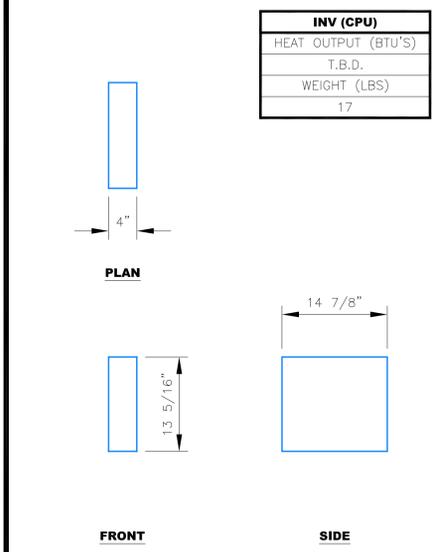
DESK	
HEAT OUTPUT (BTU'S)	0
WEIGHT (LBS)	221

6 CONTROL DESK
SCALE: 1/2" = 1'-0" 07-17-14



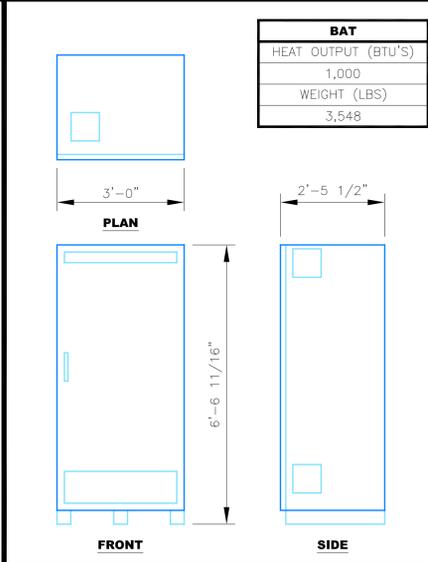
MON	
HEAT OUTPUT (BTU'S)	192
WEIGHT (LBS)	18

4 CONTROL MONITOR(S)
SCALE: 1 1/2" = 1'-0" 07-17-14



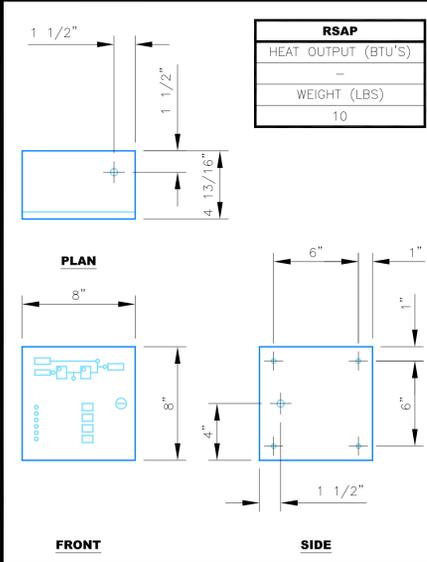
INV (CPU)	
HEAT OUTPUT (BTU'S)	T.B.D.
WEIGHT (LBS)	17

7 INNERVISION
SCALE: 1" = 1'-0" 07-17-14



BAT	
HEAT OUTPUT (BTU'S)	1,000
WEIGHT (LBS)	3,548

12 BATTERY CABINET
SCALE: 1/2" = 1'-0" 07-17-14



RSAP	
HEAT OUTPUT (BTU'S)	-
WEIGHT (LBS)	10

11 REMOTE STATUS ALARM PANEL
SCALE: 2" = 1'-0" 07-17-14

TOSHIBA
Leading Innovation >>>

INT		
DESCRIPTION		
REV	DATE	

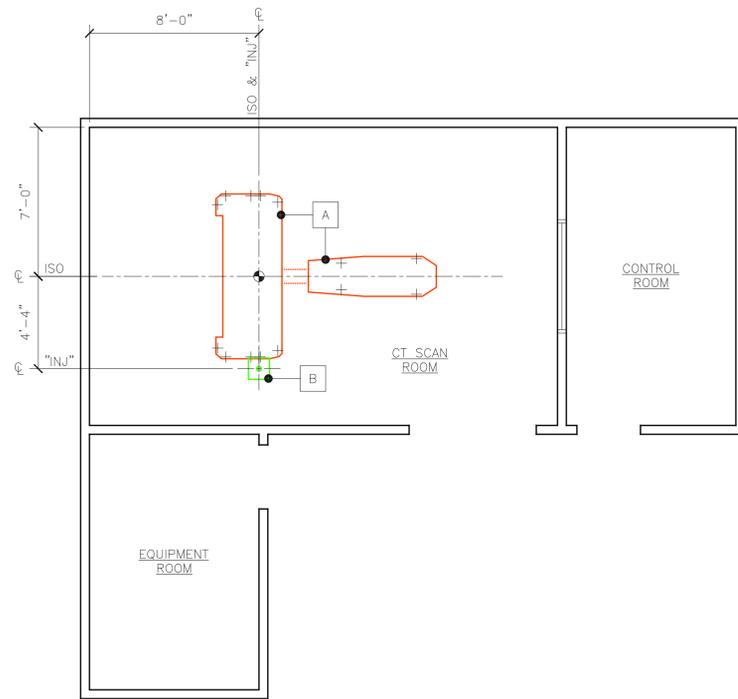
TYPICAL DRAWING FOR ACHA REGULATED SITES
(AQUILION - ONE VISION)

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DATE: 07-17-14
SCALE: AS NOTED
PLANNER: SITE PLANNING
PROJECT NO. **TYPICAL**

A2

FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.



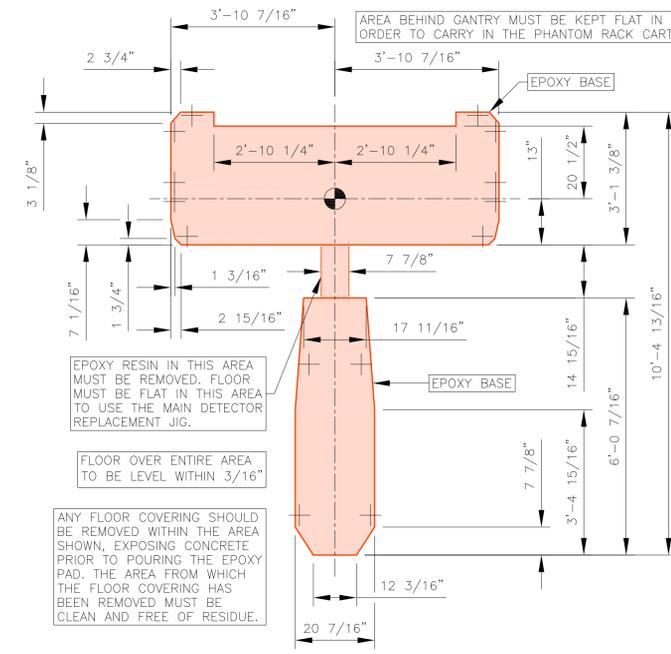
STRUCTURAL LAYOUT



NOTE:
 ANY FLOOR COVERING SHOULD BE REMOVED WITHIN THE AREA SHOWN IN DETAIL 1 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.

STRUCTURAL LEGEND

ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	REF.
A	BASE LAYOUT FOR AQUILION	1 S1
ITEM	ITEM DESCRIPTION SUPPLIED BY MANUFACTURER AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
B	MOUNTING PLATE FOR CEILING MOUNTED INJECTOR	6 S2



EPOXY RESIN IN THIS AREA MUST BE REMOVED. FLOOR MUST BE FLAT IN THIS AREA TO USE THE MAIN DETECTOR REPLACEMENT JIG.

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"

07-17-14

REV	DATE	DESCRIPTION

TYPICAL DRAWING FOR ACHA REGULATED SITES
 (AQUILION - ONE VISION)

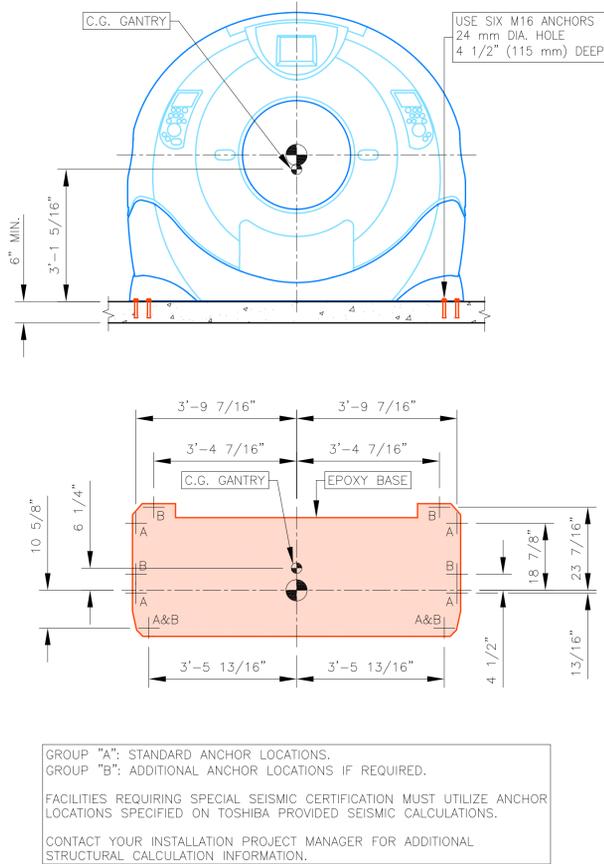
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DATE: 07-17-14
 SCALE: 1/4" = 1'-0"
 PLANNER: SITE PLANNING
 PROJECT NO. **TYPICAL**

S1



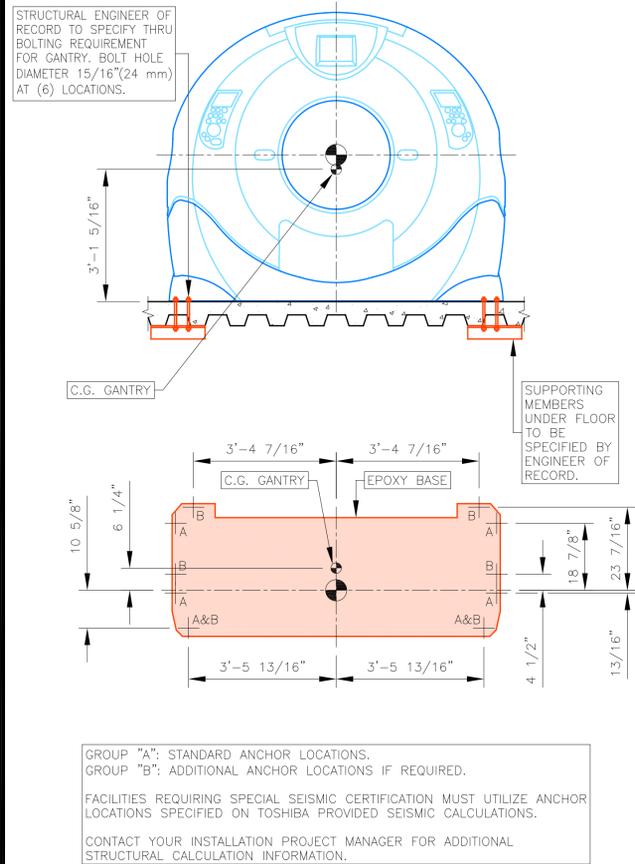
FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.



GROUP "A": STANDARD ANCHOR LOCATIONS.
 GROUP "B": ADDITIONAL ANCHOR LOCATIONS IF REQUIRED.
 FACILITIES REQUIRING SPECIAL SEISMIC CERTIFICATION MUST UTILIZE ANCHOR LOCATIONS SPECIFIED ON TOSHIBA PROVIDED SEISMIC CALCULATIONS.
 CONTACT YOUR INSTALLATION PROJECT MANAGER FOR ADDITIONAL STRUCTURAL CALCULATION INFORMATION.

1 GANTRY BASE (SLAB ON GRADE) ANCHOR BOLT DETAIL

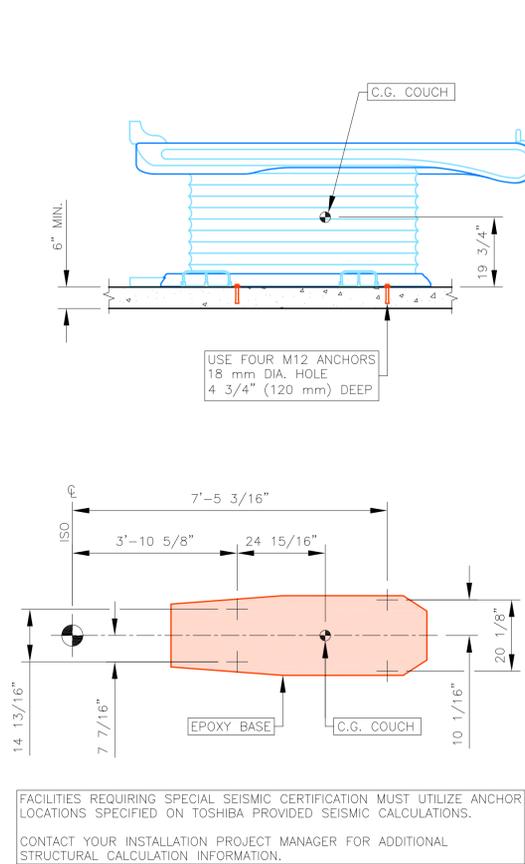
SCALE: 1/2" = 1'-0" 07-17-14



GROUP "A": STANDARD ANCHOR LOCATIONS.
 GROUP "B": ADDITIONAL ANCHOR LOCATIONS IF REQUIRED.
 FACILITIES REQUIRING SPECIAL SEISMIC CERTIFICATION MUST UTILIZE ANCHOR LOCATIONS SPECIFIED ON TOSHIBA PROVIDED SEISMIC CALCULATIONS.
 CONTACT YOUR INSTALLATION PROJECT MANAGER FOR ADDITIONAL STRUCTURAL CALCULATION INFORMATION.

2 GANTRY BASE (UPPER FLOOR) THRU BOLT DETAIL

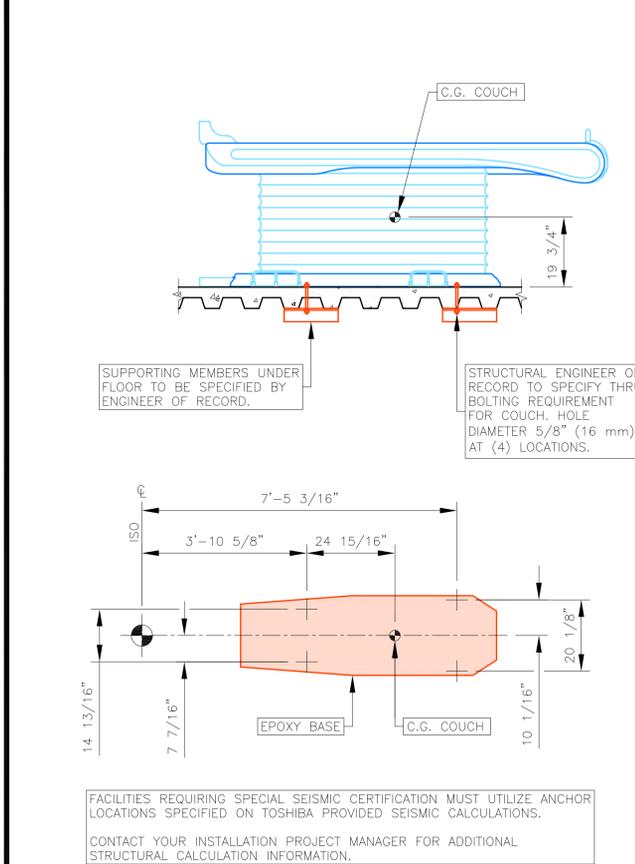
SCALE: 1/2" = 1'-0" 07-17-14



FACILITIES REQUIRING SPECIAL SEISMIC CERTIFICATION MUST UTILIZE ANCHOR LOCATIONS SPECIFIED ON TOSHIBA PROVIDED SEISMIC CALCULATIONS.
 CONTACT YOUR INSTALLATION PROJECT MANAGER FOR ADDITIONAL STRUCTURAL CALCULATION INFORMATION.

3 TABLE BASE (SLAB ON GRADE) ANCHOR BOLT DETAIL

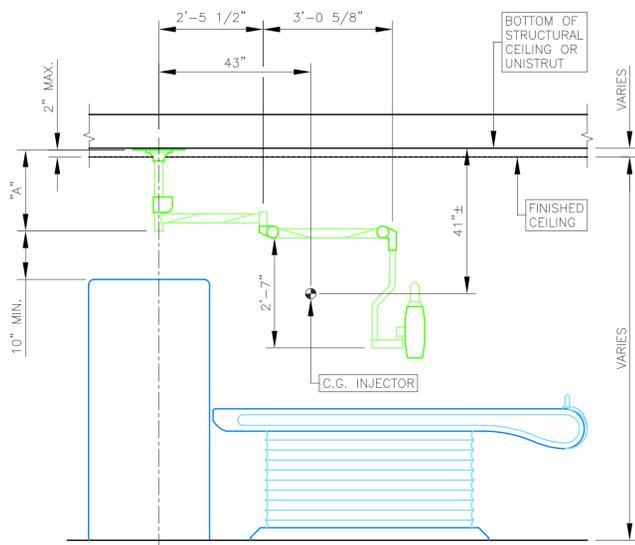
SCALE: 1/2" = 1'-0" 07-17-14



FACILITIES REQUIRING SPECIAL SEISMIC CERTIFICATION MUST UTILIZE ANCHOR LOCATIONS SPECIFIED ON TOSHIBA PROVIDED SEISMIC CALCULATIONS.
 CONTACT YOUR INSTALLATION PROJECT MANAGER FOR ADDITIONAL STRUCTURAL CALCULATION INFORMATION.

4 TABLE BASE (UPPER FLOOR) THRU BOLT DETAIL

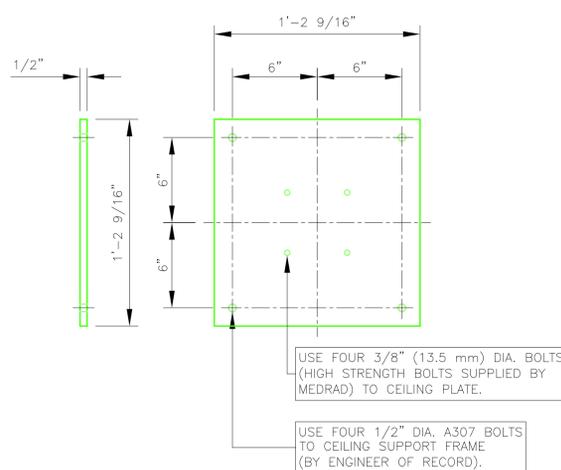
SCALE: 1/2" = 1'-0" 07-17-14



"A" CEILING COLUMN OPTIONS	
SHORT	1'-10 13/16"
MEDIUM	2'-9 7/16"
LONG	3'-3 3/8"

5 INJECTOR PLATE MOUNTING DETAIL

SCALE: 1/2" = 1'-0" 07-17-14



USE FOUR 3/8" (13.5 mm) DIA. BOLTS (HIGH STRENGTH BOLTS SUPPLIED BY MEDRAD) TO CEILING PLATE.
 USE FOUR 1/2" DIA. A307 BOLTS TO CEILING SUPPORT FRAME (BY ENGINEER OF RECORD).

6 CEILING MOUNTED INJECTOR PLATE DETAIL

SCALE: 2" = 1'-0" 07-17-14

REV	DATE	DESCRIPTION

TYPICAL DRAWING FOR ACHA REGULATED SITES
 (AQUILION - ONE VISION)

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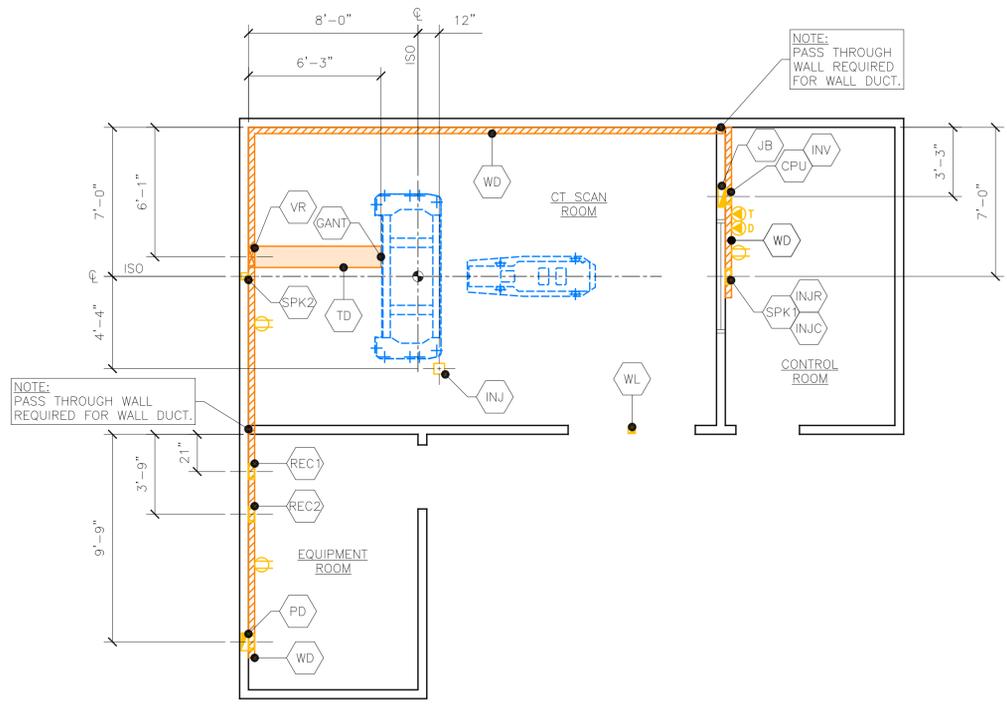
DATE: 07-17-14
 SCALE: AS NOTED
 PLANNER: SITE PLANNING
 PROJECT NO. **TYPICAL**

FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.

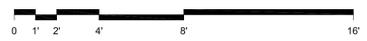


NOTE:
TO BE LOCATED BY CUSTOMER / CONTRACTOR.

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 TO BE PROVIDED BY CUSTOMER / CONTRACTOR.



ELECTRICAL LAYOUT



NOTE:
FIBER OPTICAL CABLES FROM RECONSTRUCTION UNITS REQUIRE A MINIMUM BENDING RADIUS OF 4 1/2". DUCT WORK DESIGN MUST ACCOMMODATE THIS REQUIREMENT.

NOTE:
TOSHIBA SUPPLIED POWER CABLE BETWEEN THE "PD" AND TOSHIBA EQUIPMENT ARE TO BE USED IF THE CABLE LENGTHS PROVIDED ARE SUFFICIENT. SEE DETAIL 2, SHEET E3. IN CASES WHERE EXTENDED CABLE LENGTHS ARE REQUIRED, THE CUSTOMER/CONTRACTOR MUST PROVIDE CABLES PER LOCAL/NATIONAL CODES.

CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL CABLES ARE IN COMPLIANCE WITH ALL LOCAL/NATIONAL CODES.

NOTE:
J-BOX SIZES MAY BE INCREASED AS NEEDED.

NOTE:
GROMMETED OPENINGS ARE SHOWN FOR REFERENCE ONLY. VERIFY SIZE AND LOCATION WITH TOSHIBA REPRESENTATIVE.

NOTE:
CUSTOMER HAS THE OPTION TO FURR OUT WALL TO ACCOMMODATE FLUSH MOUNTED WALL DUCT IF DESIRED.

ELECTRICAL LEGEND

ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
(MAIN)	MAIN SERVICE ENTRANCE PANEL	(2) E3
(CB)	THREE PHASE CIRCUIT BREAKER PER TOSHIBA POWER SPECIFICATIONS (SEE DETAIL) CIRCUIT BREAKER LOCATION PER CODE REQUIREMENTS BY ELECTRICAL CONTRACTOR.	(2) E3
(PD)	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.	(2) E3
(EPO)	4" STD. J-BOX FOR REMOTE OFF SWITCH. LOCATED BY CUSTOMER/CONTRACTOR. DPDT, NORMALLY OPEN MUSHROOM HEAD PUSH BUTTON.	(2) E3
(WL)	4" STD. J-BOX FOR "X-RAY ON" OR WARNING LIGHT MOUNTED ABOVE PATIENT ENTRY DOOR.	(3) E3
(BS)	BUILDING STEEL.	(2) E3
(GANT)	GROMMETED OPENING IN "TD" COVER OPEN TO GANTRY CABLE TRAY.	(5) E3
(CPU)	SHARED GROMMETED OPENING IN WALL DUCT "WD".	(5) E3
(INV)		(5) E3
(SPK1)	SHARED GROMMETED OPENING IN WALL DUCT "WD".	(5) E3
(INJC)		(5) E3
(INJR)	6" W X 6" H X 4" D J-BOX, MOUNTED ABOVE FINISHED CEILING.	(1) -
(INJ)		(1) -
(SPK2)	4" STD. J-BOX FOR SCAN ROOM SPEAKER, FLUSH MOUNTED 58" A.F.F. TO BOTTOM OF BOX (IN PROCEDURE ROOM).	(1) -
(REC1)	GROMMETED OPENING IN "WD". FLEX CONDUIT MAY BE REQUIRED TO MEET LOCAL CODE.	(5) E3
(REC2)	GROMMETED OPENING IN "WD". FLEX CONDUIT MAY BE REQUIRED TO MEET LOCAL CODE.	(5) E3
(JB)	10" W X 10" H X 4" D J-BOX, FLUSH MOUNTED 12" A.F.F. TO BOTTOM OF BOX. OPEN TO "WD".	(5) E3
(⚡)	110V ELECTRICAL OUTLETS FOR SYSTEM EQUIPMENT AND/OR SERVICE EQUIPMENT. OUTLETS TO BE LOCATED IN EACH ROOM WHERE SYSTEM EQUIPMENT IS LOCATED.	(1) -
(🔌)	RJ45 CONNECTOR, CAT5 CABLE TO BE USED FOR DATA CONNECTION FOR NETWORKING.	(1) -
(📞)	DEDICATED PHONE LINE SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.	(1) -

ELECTRICAL DUCT LEGEND

ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
(WD)	12" W X 3 1/2" D FLUSH/SURFACE MOUNTED WALL DUCT, W/(4) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. MOUNTED 12" A.F.F. TO BOTTOM OF DUCT.	(5) E3
(VR)	12" W X 3 1/2" D SURFACE MOUNTED RISER DUCT, W/(4) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. FROM "WD" TO "TD".	(5) E3
(TD)	12" W X 2 1/2" D FLUSH MOUNTED TRENCH DUCT, W/(4) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS (THICKNESS SHOULD BE ABLE TO SUPPORT MIN. OF 200 LBS.) ARE REQUIRED.	(5) E3

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REV	DATE	DESCRIPTION	INT

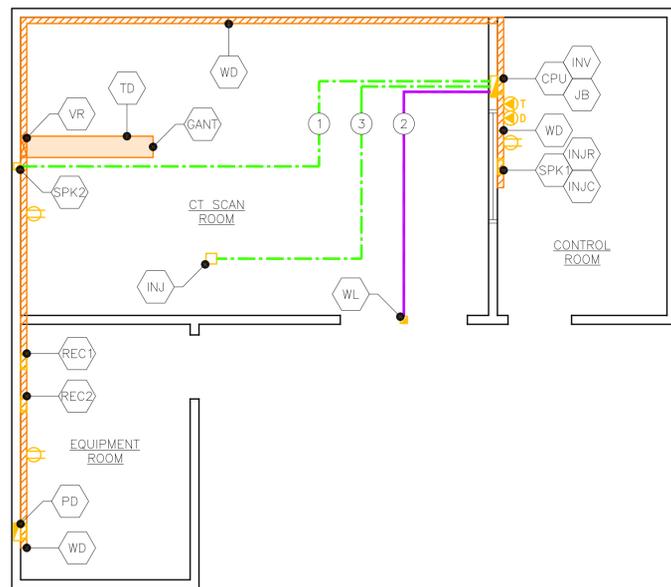
TYPICAL DRAWING FOR ACHA REGULATED SITES
(AQUILION - ONE VISION)

DATE: 07-17-14
SCALE: 1/4" = 1'-0"
PLANNER: SITE PLANNING

PROJECT NO.
TYPICAL

E1

FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.



ELECTRICAL SCHEMATIC
(PROVIDED FOR REFERENCE PURPOSES ONLY)



CABLE KEY	
	IN/UNDER FLOOR
	OVER CEILING
	CONTRACTOR DETERMINED

CONDUIT SCHEDULE

CONTRACTOR CONDUIT REFERENCE					CABLE REFERENCE		
RUN NO.	CONDUIT (POINT TO POINT)	CONDUIT (ROUTING)	CONDUIT (DIAMETER)	CONDUIT (MAX LENGTH)	CABLE (POINT TO POINT)	CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY)
①	SPK2 JB	OVER CEILING	1/2"	45'-0"	SPK2 CPU	SEE RUN "M" DETAIL (1/E4)	TOSHIBA
②	WL JB	CONTRACTOR DETERMINED	PER MANUFACTURER	PER MANUFACTURER	WL GANT	PER MANUFACTURER	CONTRACTOR
③	INJ JB	OVER CEILING	2 1/2"	45'-0"	INJ INJR	50'-0" (SIGNAL)	MANUFACTURER

NOTE:
A. CONDUITS SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.
B. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
C. CONDUIT IS NOT TO BE RUN IN SUCH A MANNER THAT WILL EXCEED CONDUIT MAXIMUM LENGTH AS SHOWN IN THE SCHEDULES.

REV	DATE	DESCRIPTION

TYPICAL DRAWING FOR ACHA REGULATED SITES
(AQUILION - ONE VISION)

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DATE: 07-17-14
 SCALE: 1/4" = 1'-0"
 PLANNER: SITE PLANNING

PROJECT NO.
TYPICAL

E2

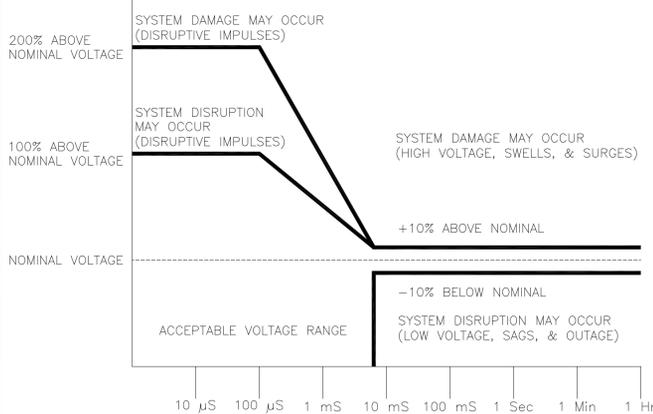


FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.

POWER QUALITY REQUIREMENTS AQUILION		
SUPPLY CONFIGURATION:	3 PHASE, 3 WIRE POWER, AND GROUND, DELTA OR WYE (SEE NOTE A)	
NOMINAL LINE VOLTAGE:	480 VAC, 60 HZ (SEE NOTE B)	
LINE VOLTAGE VARIATION:	±10% STEADY-STATE INCLUDING SAGS AND SURGES	
LINE VOLTAGE BALANCE:	2% MAXIMUM OF NOMINAL VOLTAGE BETWEEN PHASES.	
FREQUENCY VARIATION:	±1 HZ	
HARMONIC DISTORTION:	3% STEADY-STATE, 5% FOR SHORT PERIODS (1 MINUTE OR LESS)	
GROUND CONDUCTOR IMPEDANCE:	0.1 OHMS @ 60 HZ, TO NEUTRAL-GROUND BONDING POINT (SEE NOTE D)	
STANDARD TRANSFORMER CAPACITY:	150 KVA	
MAXIMUM SYSTEM DEMAND:	125 KVA (IMAGING)	
CONDUCTOR SIZES (SEE NOTE E) FOR 1.5% IMPEDANCE OF BRANCH CONDUCTORS (20°C)		
CONDUCTOR SIZE	LENGTH	BREAKER FRAME SIZE
1/0 AWG	377 FT.	200 A
2/0 AWG	444 FT.	200 A
CIRCUIT BREAKER SIZE: (SEE NOTE F)		
150 A		
MOMENTARY MAXIMUM CURRENT: 163 A		
MAXIMUM VOLTAGE DROP: 24.0 V		
% REGULATION: 5.0%		

STANDARD POWER QUALITY NOTES

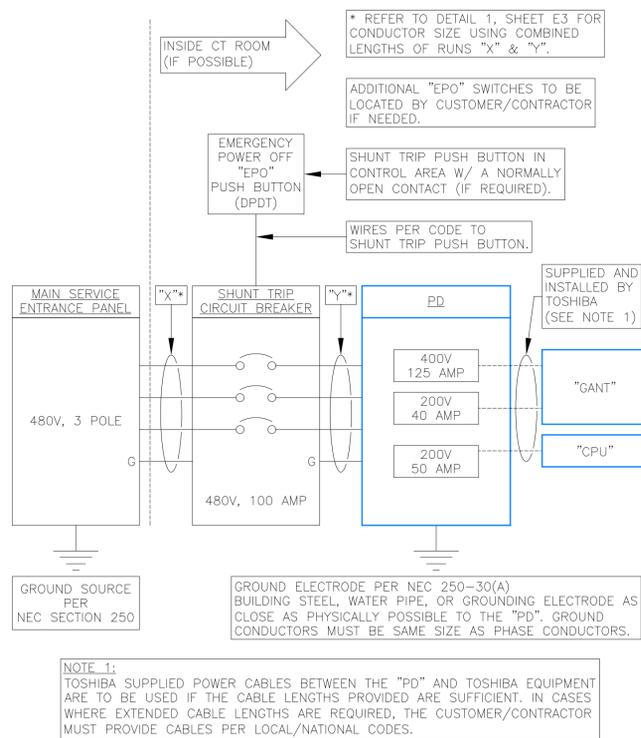
- A GROUNDED NEUTRAL POWER SOURCE IS REQUIRED TO ASSURE RELIABLE EQUIPMENT OPERATION. THE NEUTRAL CONDUCTOR MAY NOT BE USED FOR A PARTICULAR SYSTEM.
- IN CASES WHERE MULTIPLE VOLTAGES ARE PERMITTED, THE PREFERRED SYSTEM VOLTAGE IS SPECIFIED.
- DUE TO THE HIGH INSTANTANEOUS POWER OF MEDICAL IMAGING SYSTEMS, 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 ARE NOT TO BE RUN WITH THE PHASE CONDUCTORS.



1 POWER REQUIREMENTS

SCALE: NOT TO SCALE

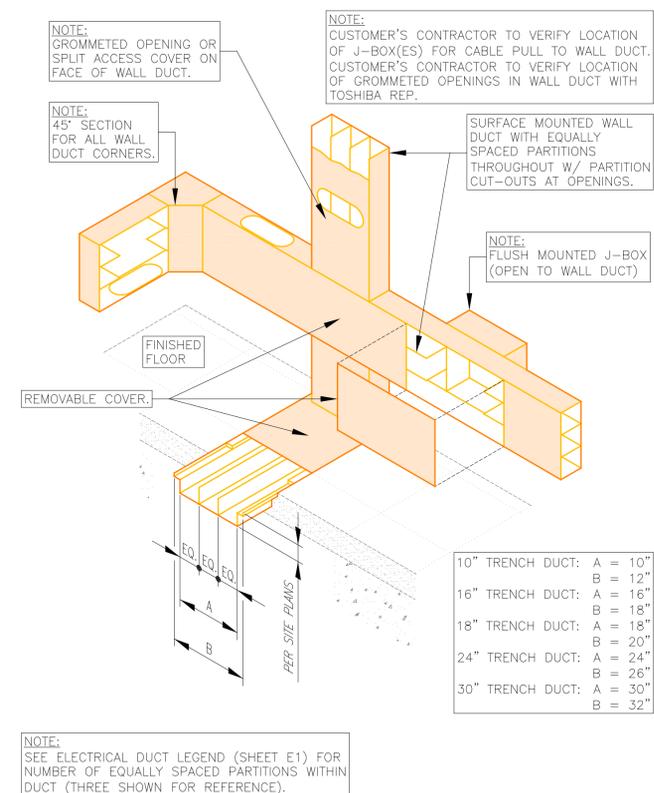
07-17-14



2 "CB" / "PD" WIRING DETAIL

SCALE: NOT TO SCALE

07-17-14



5 TYPICAL DUCT DETAIL WITH WALL DUCT TRENCH DUCT / J-BOX / VERTICAL RISER

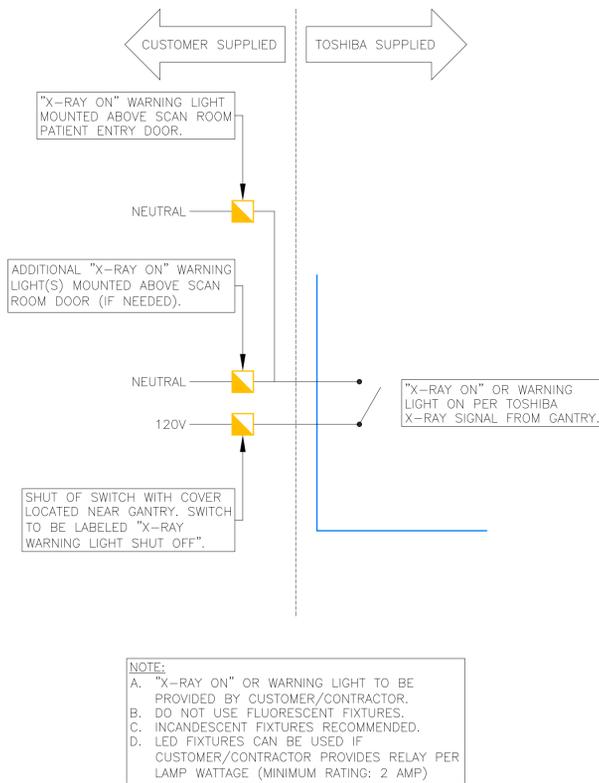
SCALE: NOT TO SCALE

07-17-14

3 WARNING LIGHT DETAIL

SCALE: NOT TO SCALE

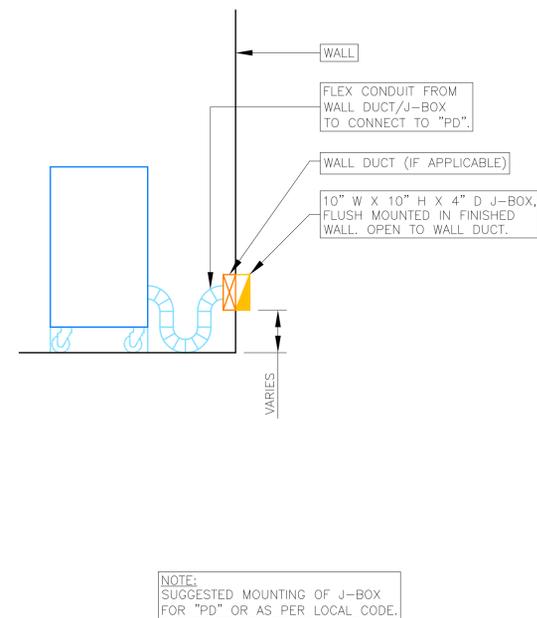
07-17-14



4 TYPICAL "PD" J-BOX MOUNTING

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

07-17-14



REV	DATE	DESCRIPTION
INT		

TYPICAL DRAWING FOR ACHA REGULATED SITES

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DATE: 07-17-14

SCALE: NOT TO SCALE

PLANNER: SITE PLANNING

PROJECT NO. TYPICAL

E3

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