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TOSHIBA Leading Innovation

REV DAIE REVISED SHEEI(S)	07-18-13 COMPLETED ORIGINAL FINAL DRAWING.	△ 08–28–13 A1, S1, E1, E2						
	I RISTAN RADIOLOGY	HEKSHEY PA			AMAD AUD IONHULL STOC		,	
INF AN' AGF ANI PL	ORM, D SH Y PU REED D TH ANS	TOSH ATION HALL RPOS UPO E CU ARE ONSTF	AL I NOT E O N B STOI NO	PURF BE THEF ETWE MER. T TO	POSE: USE THA EEN THE: D BE	S ON ED F NN TH FOSH SE S US	OR HAT IBA SITE	
DA	TE:		08	8-2	8-1	3		
SC.	ALE:		NO	T T() SC	ALE		
PL/	ANNE	ER:			J.A.D).		
S.I	.D.:			300	060	80		
		01		74 :	3X	RF	₹1	

CEILING HEIGHT

RECOMMENDED CEILING HEIGHT: 9'-2" (SEE DETAIL 1 ON SHEET A3) EXISTING CEILING HEIGHT: 9'-6"

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

GENERAL NOTES

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

GENERAL A. TOSHIBA RESERVES THE RIGHT TO CHANGE THESE DESIGNS AND SPECIFICATIONS

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

CODES AND PERMITS

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

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. IT IS RECOMMENDED THAT XR EQUIPMENT REMAIN OUTSIDE 1 GAUSS FIELD OF MR EQUIPMENT.

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

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

TRANSPORT REQUIREMENTS

EXAMINATION ROOM SIZE.

10-07-1

10-07-1

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

10-07-1

HVAC REQUIREMENTS

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

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

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

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

SYSTEM NAME | HEAT GENERATION (BTU/HR) POWER CONSUMPTION (kW) DUA-450F 1.239.00 0.027 (DURING STANDBY) KXO-80XD | 7,678.00 4,164.00 (FOR CONTINUOUS FLUOROSCOPY ONLY) 2,731.00 APPROX. (DURING STANDBY) 10-07-1

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 ACCELERATIONS SHOULD BE INCLUDED IN THE DESIGN CALCULATIONS FOR THE SUPPORT STRUCTURE AS WELL AS ANCHORING AND THRU-BOLTING FOR THE TOSHIBA EQUIPMENT (FOR EXAMPLE, CEILING INJECTORS OR MONITORS).
- F. IN THE INTEREST OF SAFETY, TOSHIBA RESERVES THE RIGHT TO DELAY INSTALLATION COMMENCEMENT UNTIL RECEIPT OF STRUCTURAL DESIGN DRAWINGS STAMPED BY THE STRUCTURAL ENGINEER OF RECORD.

FLOOR MOUNTING NOTES

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

- H. THE FLOOR MUST USE CONCRETE WITH A LOAD STRENGTH OF AT LEAST 2,560 PSI (1.760 M/cm²) OVER THE ENTIRE FLOOR SURFACE.
- I. THE DEPTH OF CONCRETE MUST BE AT LEAST 5 1/8" (130 mm).
- J. THE LEVELNESS SLOPE IN THE LONGITUDINAL DIRECTION SHOULD BE LESS THAN 1/16" OVER 5'-9" RUN (1 mm OVER 1,100 mm).
- K. THE LEVELNESS SLOPE IN THE LATERAL DIRECTION SHOULD BE LESS THAN 1/16" OVER 3'-9" RUN (1 mm OVER 713 mm).
- L. EVENNESS OF FLOOR UNDER BASE SHOULD BE LESS THAN 1/32" (1 mm).

CEILING STRUCTURAL SYSTEM

- M. CEILING UNISTRUT SUPPORT STRUCTURES TO BE DESIGNED BY OTHERS BASED ON SPECIFICATIONS SHOWN ON TOSHIBA SITE PLANS.
- N. UNISTRUT OR EQUIVALENT CHANNEL SUPPORT SYSTEM TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.
- O. IN ORDER TO AVOID COLLISION WITH MOVEABLE TOSHIBA CEILING MOUNTED EQUIPMENT, ALL CEILING FIXTURES SUCH AS LAMPS, SMOKE DETECTORS, SPRINKLERS, ETC. MUST E
- P. CONTRACTOR TO SUPPLY M10 UNISTRUT NUTS.

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

UNISTRUT ARE TO BE P1001 OR FQUIVALENT. MOUNTED FLUSH WITH FINISHED CELLING. 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. 10-07-1

ELECTRICAL REQUIREMENTS FOR KALARE SYSTEM WITH PDU

SUPPLY CONFIGURATION: 3 PHASE DELTA CONNECTED, 86 kVA SERVICE

480V - 80 AMP SUPPLY VOLTAGE:

10-07-1

ELECTRICAL NOTES

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.

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

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

06-01-1

SPECIAL NOTES

SPECIAL SEISMIC CERTIFICATION A. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:

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

A.B. OSP-0281-10 SYSTEM CABINET MAIN PROCESSING UNIT

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

POWER DISTRIBUTION UNIT (AS APPLICABLE)

0

		7-18-13	ON-18-13 COMPLETED ORIGINAL FINAL DRAWING.
MERSHEY PA	90 W	8-28-13	08-28-13 NO CHANGES MADE TO THIS SHEET.

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

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08-28-13 NOT TO SCALE

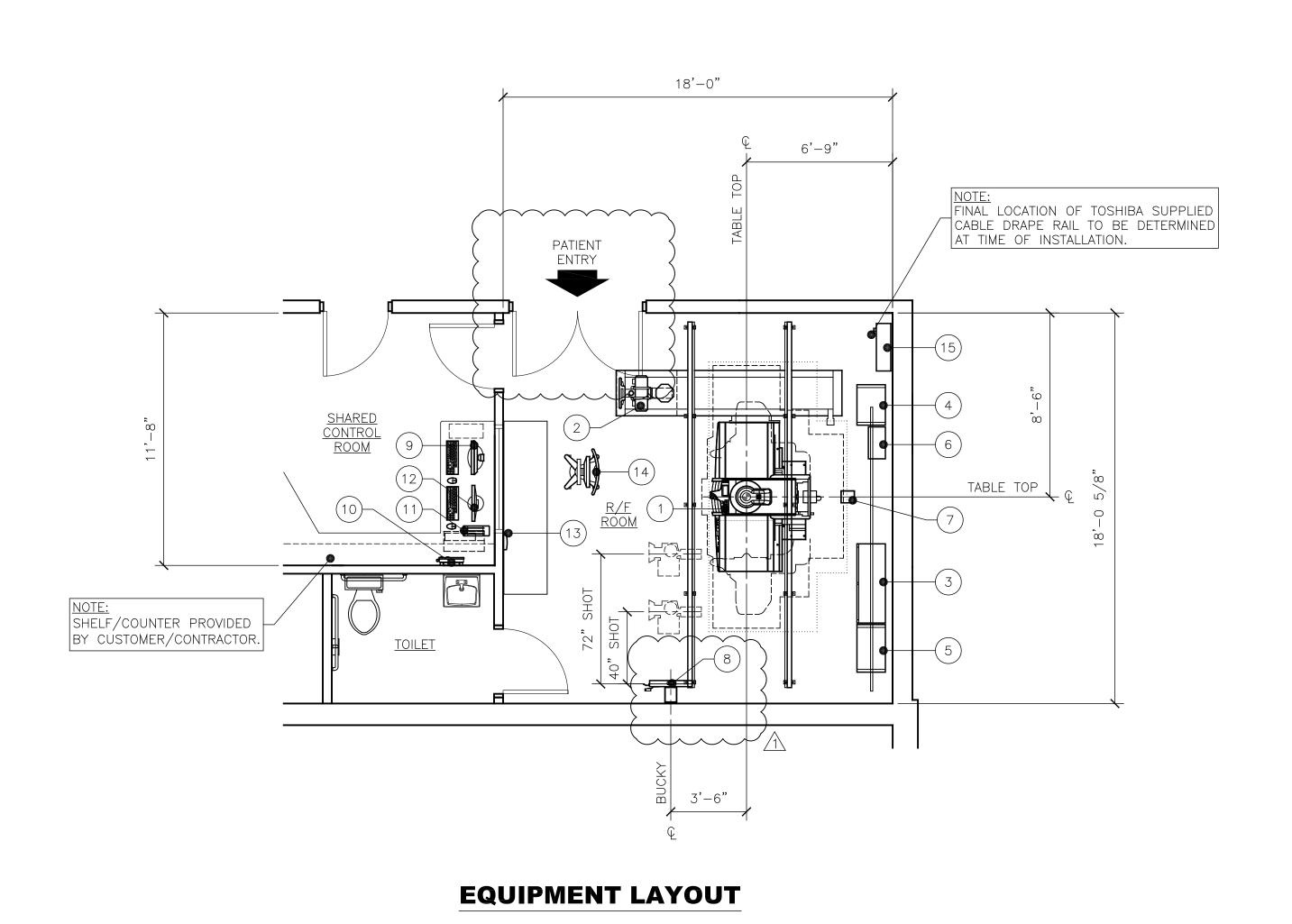
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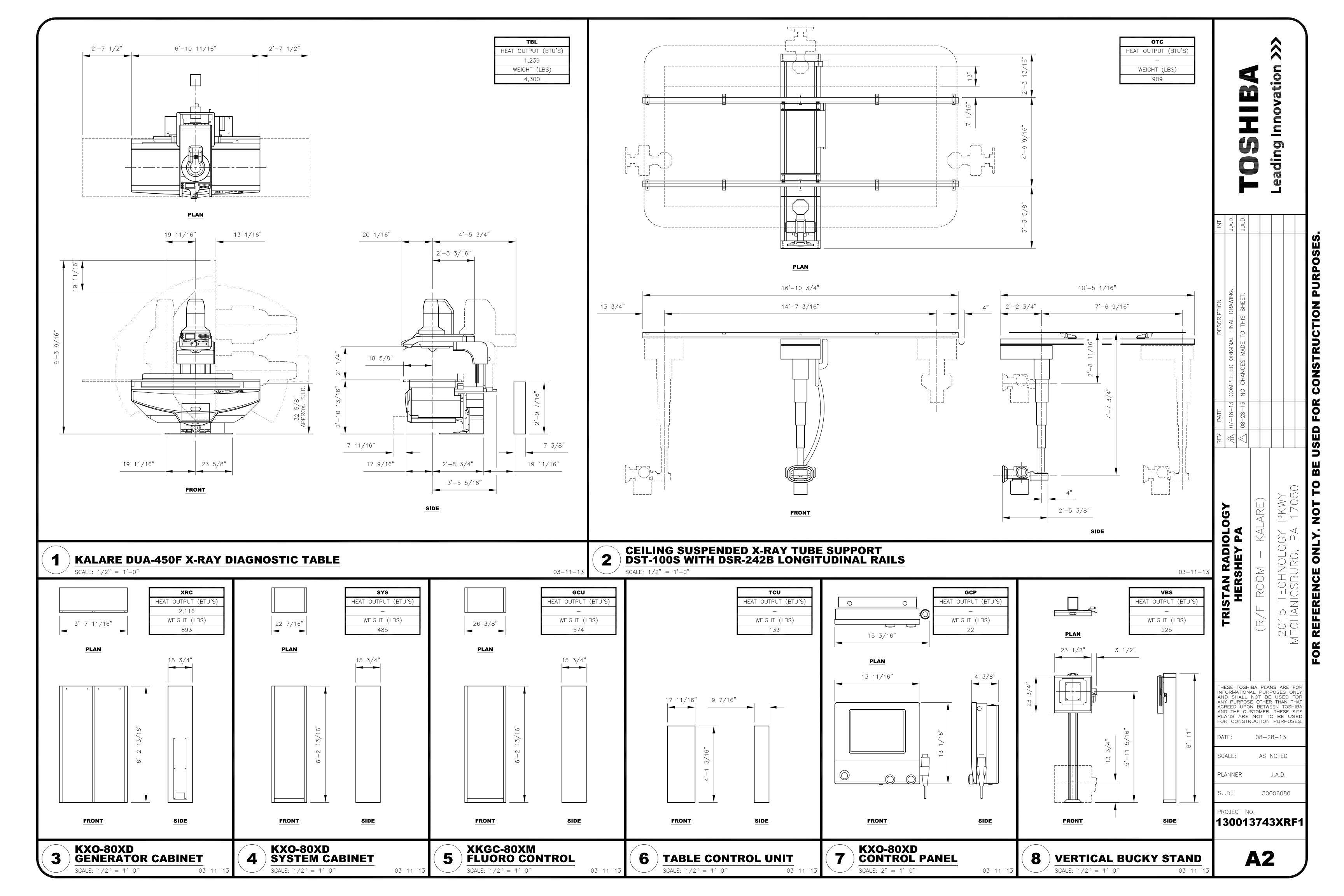
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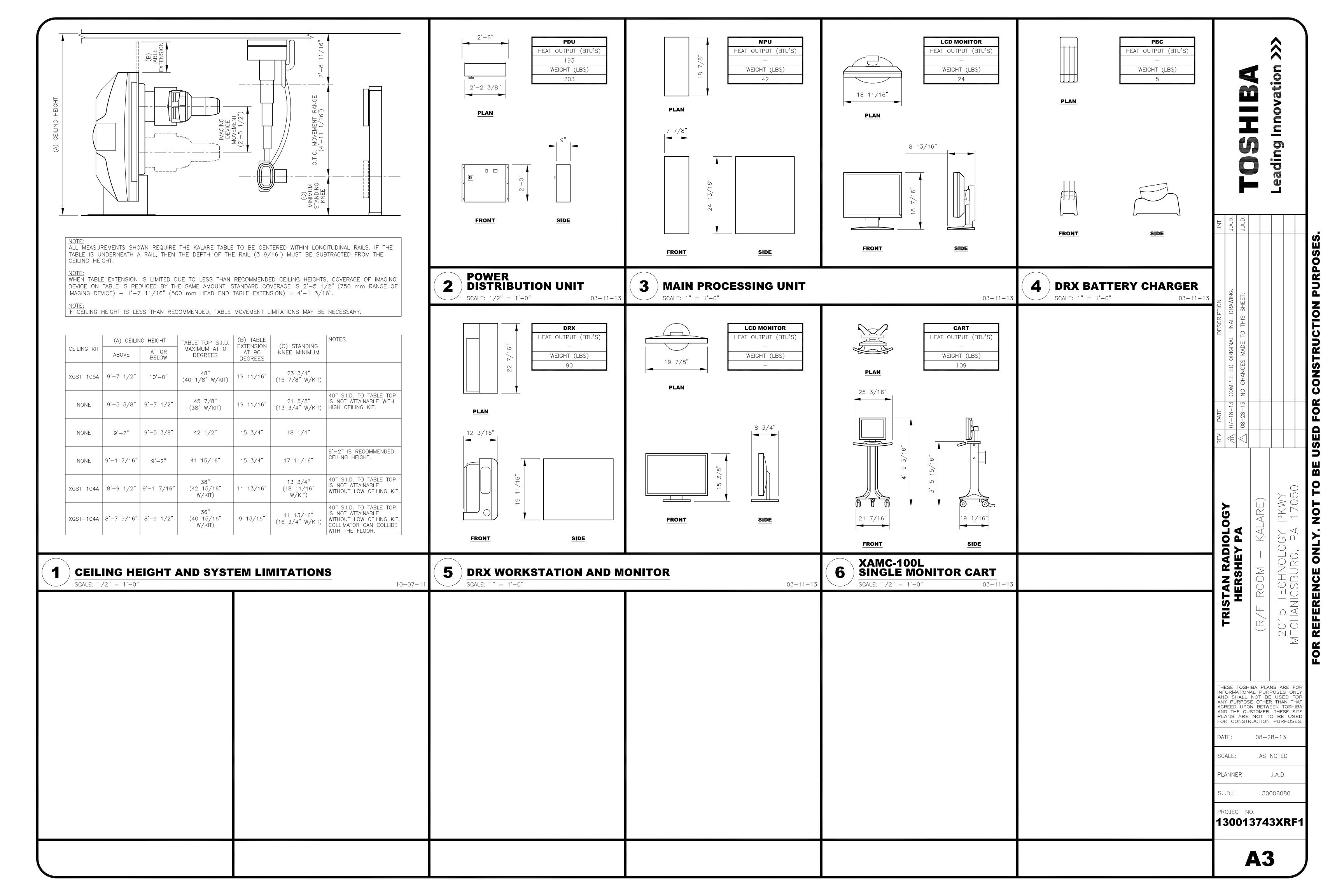
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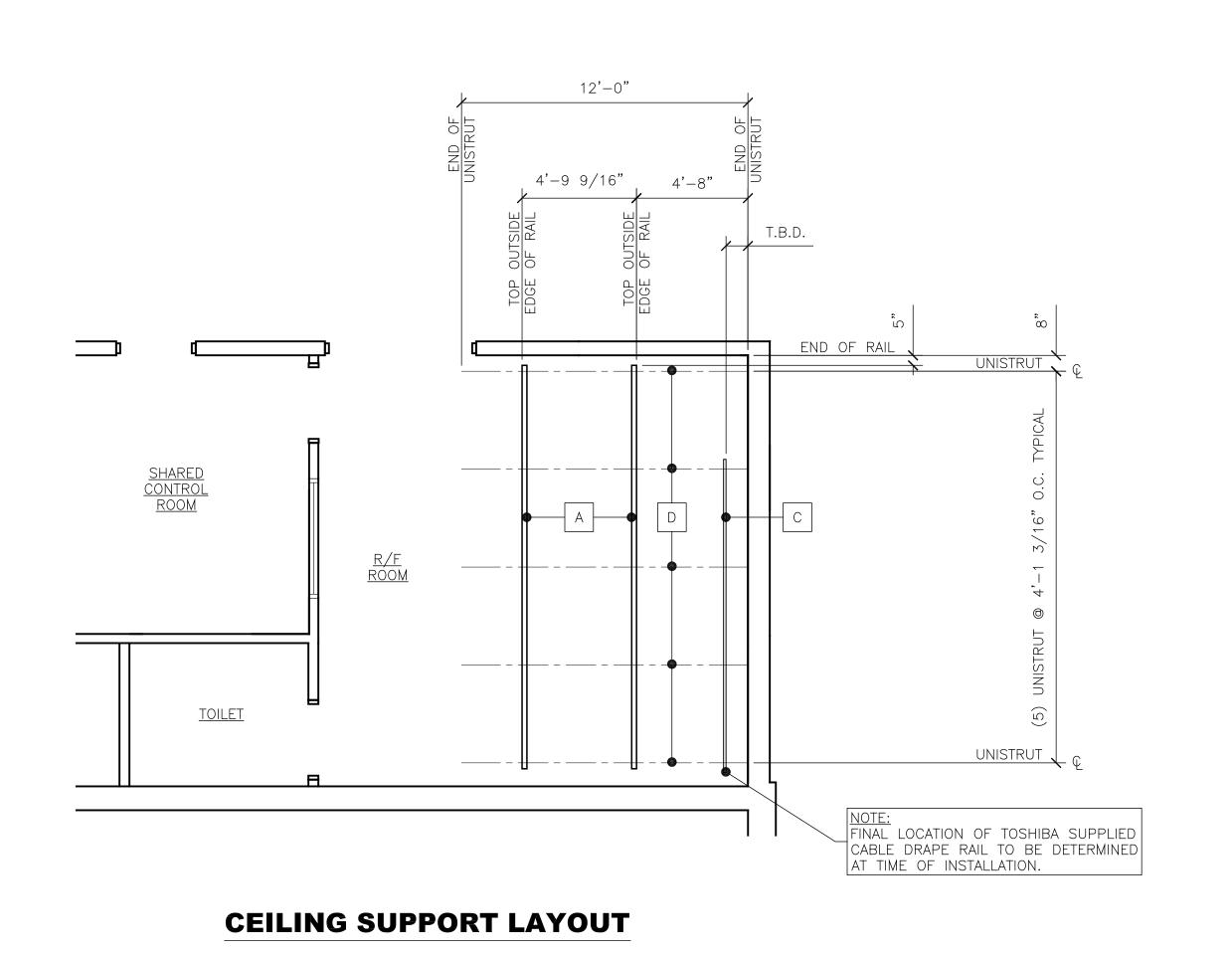
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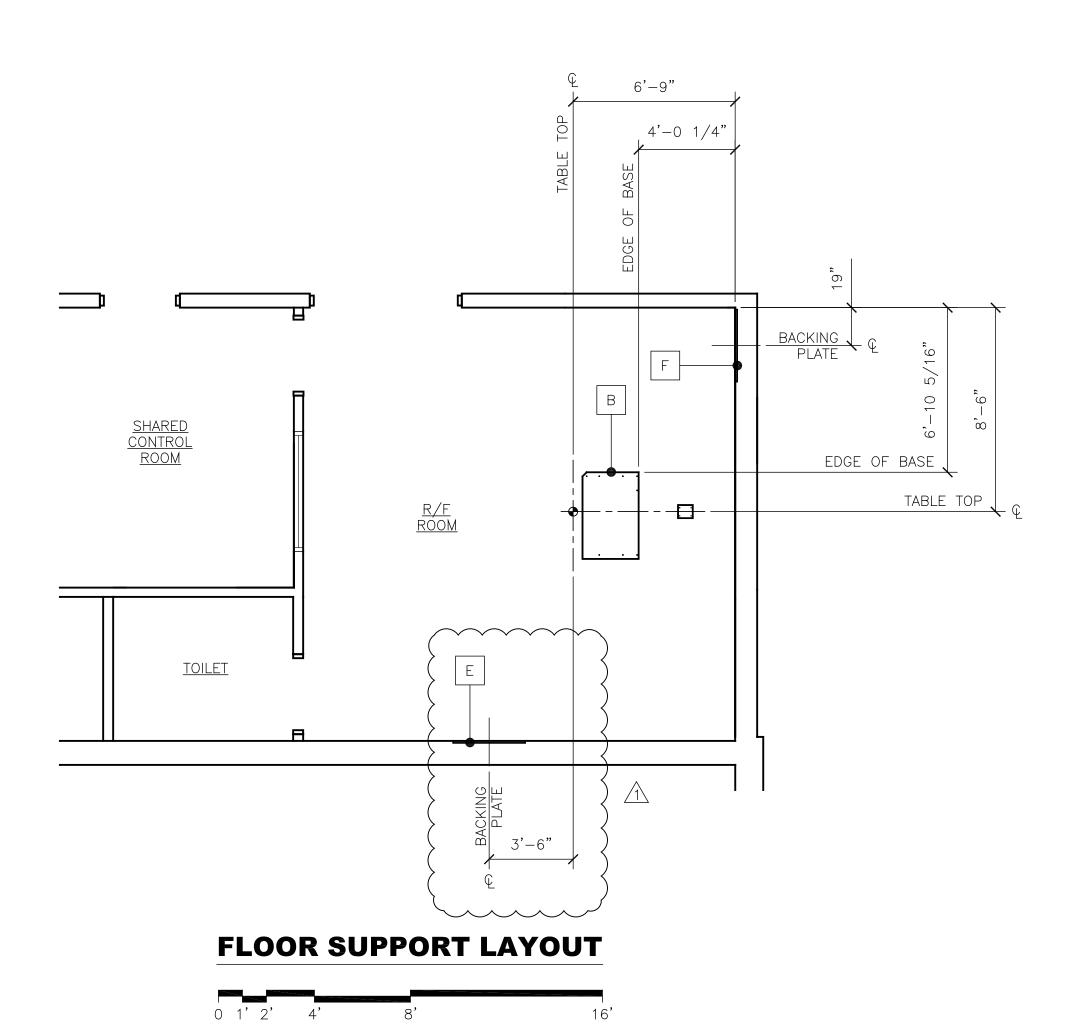


	FLEC	EQUIPMENT LEGEND							^
ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.				
	TBL	DUA-450F X-RAY DIAGNOSTIC TABLE	1,239	4,300	$\begin{pmatrix} 1 \\ A2 \end{pmatrix}$				
2	ОТС	DST-100S CEILING SUSPENDED TUBE SUPPORT W/DSR/242B RAILS AND CARRIAGE	_	909	$\begin{pmatrix} 2 \\ A2 \end{pmatrix}$				Innovation >>>
3	XRC	KXO-80XD GENERATOR CONTROL CABINET	2,116	893	$\frac{3}{A2}$				NO NO
4	SYS	SYSTEM CABINET ("RCU" WITHIN "SYS" CABINET)	_	485	4 A2				
5	GCU	XKGC-80XM FLUORO CONTROL CABINET	_	574	5 A2			n	5
6	TCU	TABLE CONTROL UNIT	_	133	6 A2				-eading
7	TCS	TABLE CABLE STAND	_	_	$\frac{1}{A2}$				ea ea
8	VBS	TW-420-R VERTICAL BUCKY STAND (RIGHT LOAD)	_	225	8 A2				
9	MPU	MAIN PROCESSING UNIT (MONITOR, PC, & KEYBOARD)	_	66	3 A3	L N	J.A.D.		
10	GCP	KXO-80XD GENERATOR CONTROL PANEL (WALL MOUNTED)	_	22	7 A2		4.U 4.U		
TEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.				
11)	PBC	DRX WIRELESS PANEL BATTERY CHARGER	_	5	4 A3		MOVED.		
12	DRX	DRX WORKSTATION (WITH MONITOR, KEYBOARD, MOUSE)	_	90	5 A3		. >		
13)	WAP	DIGITAL PANEL WIRELESS ACCESS POINT	_	4	<u>-</u>	IPTION	DRAWING.		
14	CART	XAMC-100L MONITOR CART (SINGLE MONITOR)	_	109	<u>-</u>	DESCRIPTION	# I		
							ORIGINAL FINA		
							ETED ORI		
							COMPLETE PATIENT I		
							-13 CO -13 PA		
						البا	07-18-		
						REV		1	
ITEM	ELEC. SYM.	ITEM DESCRIPTION — SUPPLIED BY TOSHIBA & INSTALLED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.				
15)	PDU	POWER DISTRIBUTION UNIT	193	203	2 A3				\ \ \ \
						>	•	ARE)	
						501		KALA	
						RADI	M		
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						ZLS			
						TRIST		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
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						INFC	RMATIC	NAL PUF	ANS ARE FRPOSES ON
						ANY AGRI AND	PURPO EED UF THE C	DSE OTHE PON BETW CUSTOMER	EE USED FER THAN THEVEEN TOSH
						PLAI FOR	NS AR CONS	L NOT TRUCTION	TO BE US N PURPOSI
						DATI	Ξ:	08-2	28-13
						SCA	LE:	1/4"	= 1'-0"
						PLAI	NNER:		J.A.D.
IN OF	טעבט די	SITE PLAN APPROVAL		W THE OHOT	7MED'S	S.I.[D.:	30	006080
		O USE THIS SET OF FINAL SITE PLANS, A CUSTOMER SIGNATURE IS FOR THE LAYOUT SHOWN AND ALL STATED			UMEK S		JECT		3XRF
CI	USTOME	ER:	DATE:					13/4	
SA	ALES:		DATE:					A	
	 ⊃.M.:		DATE:					A1	









	STRUCTURAL LEGEND	
ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	REF
А	DSR-242B CEILING RAILS	3 S2
В	BASE LAYOUT FOR DUA-450F TABLE	<u>1</u> S2
С	CABLE DRAPE RAIL	3 S2
ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF
D	P1001 UNISTRUT	3 S2
Е	BACKING PLATE FOR TW-420 VERTICAL BUCKY STAND	<u>4</u> S2
F	BACKING PLATE FOR POWER DISTRIBUTION UNIT (36" W X 30" H, 31" A.F.F.)	2 S2

TOSHIBA Leading Innovation >>>

	SECTION CONSTRICTION BIIDDOCES	73 4	U U	I DE CETEDENCE ONI V NOT TO BE I
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				YMXA YUU ONTU TECHNOI OUY DKMY
¬	08-28-13 BACKING PLATE MOVED PER NEW BUCKY LOCATION.	08-28-		TIECHIE TOSHI
\neg	07-18-13 COMPLETED ORIGINAL FINAL DRAWING.	07–18-	\bigcirc	
	E DESCRIPTION	DATE	REV	

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.

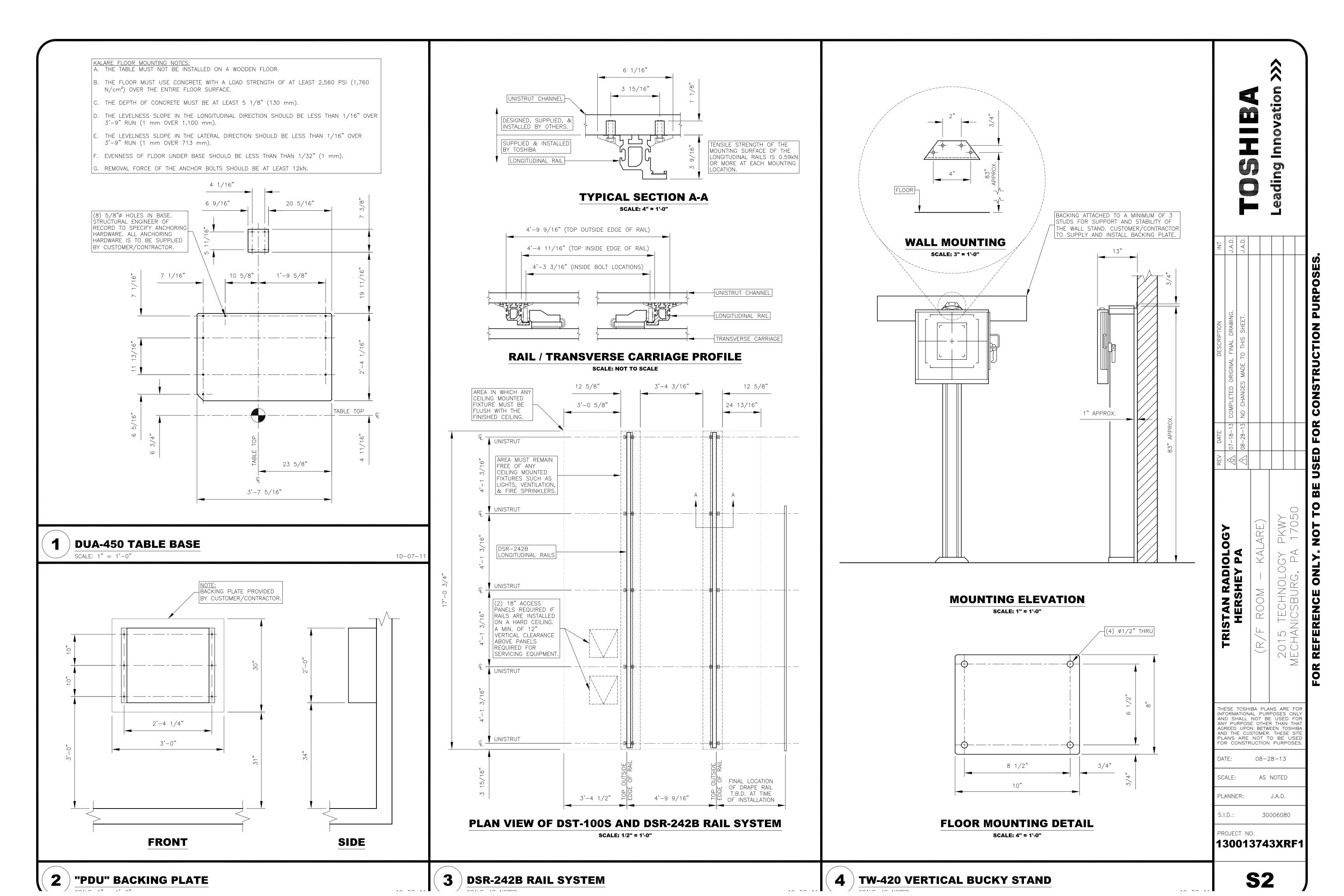
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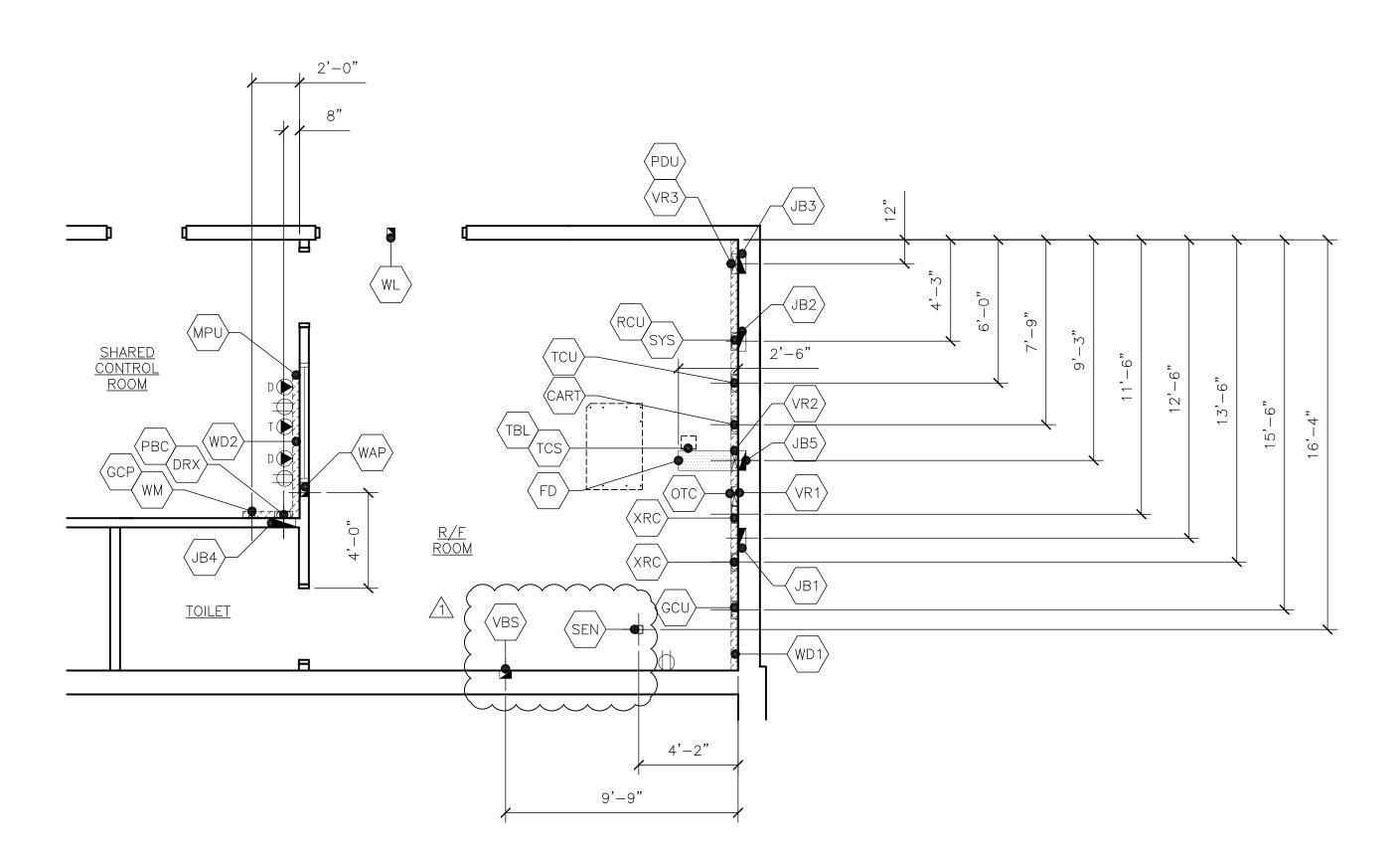
DATE: 08-28-13SCALE: 1/4" = 1'-0"PLANNER: J.A.D.

S.I.D.: 30006080

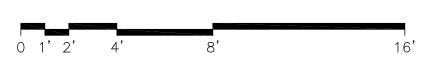
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S1





ELECTRICAL LAYOUT



MAIN CB EPO BS

TO BE LOCATED BY CUSTOMER / CONTRACTOR.

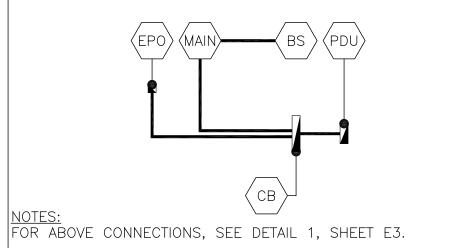
ADDITIONAL "EPO" SWITCHES TO BE LOCATED IN ADJACENT ROOMS WITH TOSHIBA EQUIPMENT IF MAIN "EPO" IS NOT ACCESSIBLE (VERIFY WITH LOCAL CODE). ALL "EPO" SWITCHES TO BE PROVIDED BY CUSTOMER / CONTRACTOR.

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

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

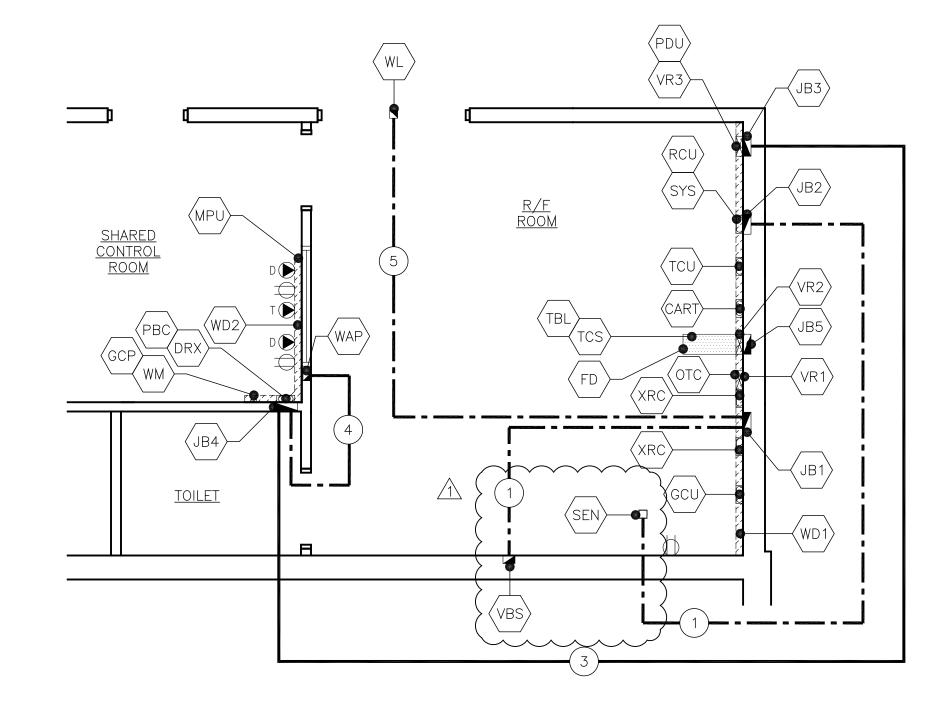
NOTE:
CUSTOMER HAS THE OPTION TO FURR OUT
WALL TO ACCOMMODATE FLUSH MOUNTED
WALL DUCT IF DESIRED.

MAIN MAIN THREE BREAK LOCAT PDU GROMI	ESCRIPTION ED AND INSTALLED BY CUSTOMER / CONTRACTOR SERVICE ENTRANCE PANEL. PHASE CIRCUIT BREAKER PER TOSHIBA POWER QUALITY REQUIREMENTS. CIRCUIT ER LOCATION PER CODE REQUIREMENTS BY ELECTRICAL CONTRACTOR. PREFERRED ON IN CONTROL ROOM. METED OPENING AT END OF "VR3", 34" A.F.F.	REF. 1 E3 1 E3						
THREE BREAK LOCAT	PHASE CIRCUIT BREAKER PER TOSHIBA POWER QUALITY REQUIREMENTS. CIRCUIT ER LOCATION PER CODE REQUIREMENTS BY ELECTRICAL CONTRACTOR. PREFERRED ON IN CONTROL ROOM. METED OPENING AT END OF "VR3", 34" A.F.F.							
	DELL DOVE FOR DELLOTE OFF OWNTON A COLUMN DV OLIOTOMER (COLUMN DATE)	3 E3					ovation	
DPDT,	D. J-BOX FOR REMOTE OFF SWITCH. LOCATED BY CUSTOMER/CONTRACTOR. NORMALLY OPEN MUSHROOM HEAD PUSH BUTTON. NG STEEL.	1 E3 1 E3						
LIGHT	D. BOX J-BOX FOR "X-RAY ON" OR WARNING MOUNTED ABOVE PATIENT ENTRY DOOR. ICTED TO TABLE CABLE STAND, "TCS".	2 E3					-eading	
TCS 4 W X	(4" L, GROMMETED OPENING IN FLOOR DUCT "FD".	3 E3						
OTC 8" W	X 3" H, GROMMETED OPENINGS IN "VR1", 14" BELOW FINISHED CEILING.	(3) E3)	LNI	J.A.D.	J.A.D.			
	X 4" L X 4" H, J—BOX FLUSH MOUNTED IN FINISHED CEILING.	7		U_				
	X 3" H, GROMMETED OPENING IN "WD1".	3 E3			TION.			
	W X 3" H, GROMMETED OPENINGS IN "WD1".	3 E3			LOCATION			
	X 3" H, GROMMETED OPENING IN "WD1".	3 E3	N	DRAWING.	BUCKY			
	X 3" H, GROMMETED OPENING IN "WD1".	3 E3	ESCRIPTION		NEW			
	X 3" H, GROMMETED OPENING IN "WD1".	3 E3	DES	AL FINAL	ED PER			
	X 3" H, GROMMETED OPENING IN "WD1".	(3) E3)		ORIGINAL	UPDATED			
	X 6" L X 4" H, J—BOX FLUSH MOUNTED IN WALL, 42" A.F.F. TO BOTTOM OF BOX.	3		LETED	RICAL			
	X 3" H, GROMMETED OPENING IN END OF "WD2".	3 E3		COMPLETED	ELECTRICAL			
	METED OPENING IN END OF "WM".	E3	4TE	18-13	28-13			
	X 3" H, GROMMETED OPENING IN "WD2". () ()	3 E3	\	07-	-80			
	X 4" L X 4" H, J—BOX FLUSH MOUNTED IN FINISHED WALL, 7'—0" A.F.F. OR MORE.		REV	\bigcirc				
10" W	IRELESS PANEL BATTERY CHARGER. () X 10" H X 4" D, J-BOX FLUSH W/FINISHED WALL, MOUNTED 12" A.F.F. TO BOTTOM DX. OPEN TO "WD1".	3 E3						
	X 10" H X 4" D, J-BOX FLUSH W/FINISHED WALL, MOUNTED 12" A.F.F. TO BOTTOM X. OPEN TO "WD1".	3 E3					\searrow	020
	X 10" H X 4" D, J-BOX FLUSH W/FINISHED WALL, MOUNTED 12" A.F.F. TO BOTTOM X. OPEN TO "WD1".	3 E3				ARE		1705
	X 12" H X 4" D, J-BOX FLUSH W/FINISHED WALL, MOUNTED 11" A.F.F. TO BOTTOM X. OPEN TO "WD2".	3 E3		J •	4	X		РА
	X 10" H X 4" D, J—BOX FLUSH W/FINISHED WALL, MOUNTED 2" A.F.F. TO BOTTOM OX. OPEN TO "VR2".	3 E3		5	<u>-</u> _			,
110V TO BE	ELECTRICAL OUTLETS FOR SYSTEM EQUIPMENT AND/OR SERVICE EQUIPMENT. OUTLETS LOCATED IN EACH ROOM WHERE SYSTEM EQUIPMENT IS LOCATED.		ב	2	E	MO	ONH.	SBURG
A RJ45	CONNECTOR, CAT5 CABLE TO BE USED FOR DATA CONNECTION FOR NETWORKING.					0 Y		
DEDIC,	ATED PHONE LINE SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.					(R/F		MECHANIC:
	ELECTRICAL DUCT LEGEND							
	ESCRIPTION ED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.				BA PLA		
WD1 EXISTI	NG SURFACE MOUNTED WALL DUCT.	_ E3	AN' AN' AGF ANI	D SH PU REED TH	HALL RPOS UPO E CU:	AL PUR NOT BI E OTHE N BETW STOMER	E USEI R THAN EEN TO . THES	D FOR N THAT DSHIBA E SITE
WD2 EXISTI	NG SURFACE MOUNTED WALL DUCT.	3 E3		R CC		NOT T RUCTION 		POSES.
VR1 EXISTI	NG SURFACE MOUNTED RISER DUCT. FROM "WD1" TO ABOVE FINISHED CEILING.	3 E3	SC.	ALE:		1/4"	= 1'-	-0"
	X 3 1/2" D, FLUSH/SURFACE MOUNTED RISER DUCT W/(3) EQUALLY PARTITIONED ARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. FROM "WD1" TO "FD".	3 E3	PL	ANNE	ER:		J.A.D.	
	X 3 1/2" D, FLUSH/SURFACE MOUNTED RISER DUCT W/(3) EQUALLY PARTITIONED ARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. FROM "WD1" TO "PDU".	3 E3		.D.:			00608	О
(FD) COMP	X 3 1/2" D, SURFACE MOUNTED METAL FLOOR DUCT W/(3) EQUAL PARTITIONED ARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. (COVERS SHOULD BE ABLE PPORT MIN. OF 200 LBS.)	3 E3			013	o. 374	3XI	RF1
	00 (2 3/4" X 1 17/32") WIREMOLD, SURFACE MOUNTED ON WALL CONNECTING WALL "WD2" TO "GCP".					E1		



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.

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

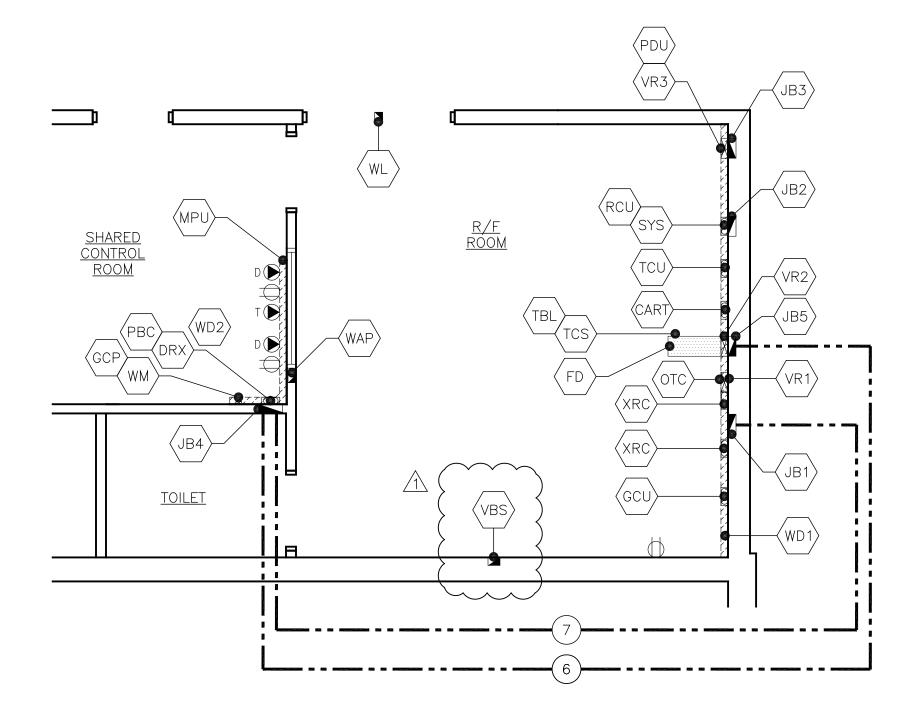


CABLE KEY

---- OVER CEILING CONTRACTOR DETERMINED

CEILING ELECTRICAL SCHEMATIC

(PROVIDED FOR REFERENCE PURPOSES ONLY)



CABLE KEY OVER CEILING

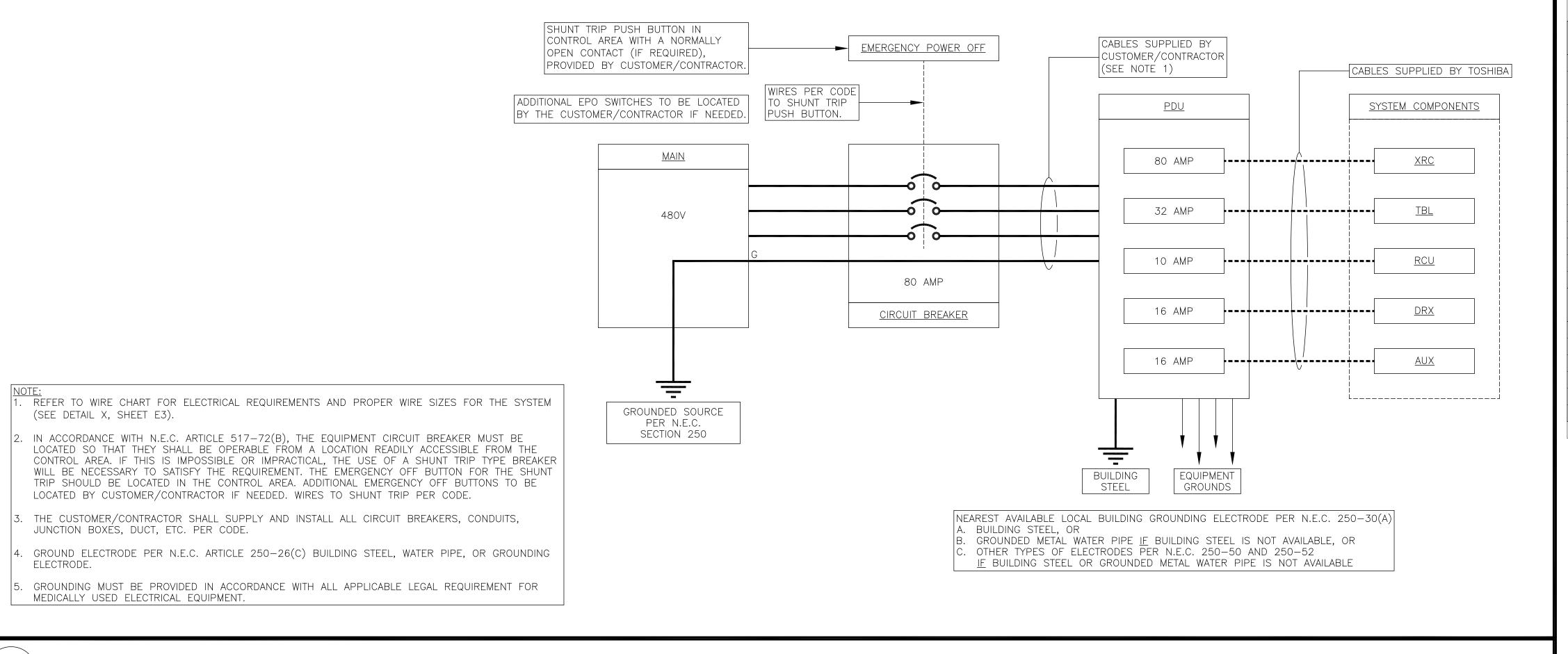
CONTRACTOR DETERMINED

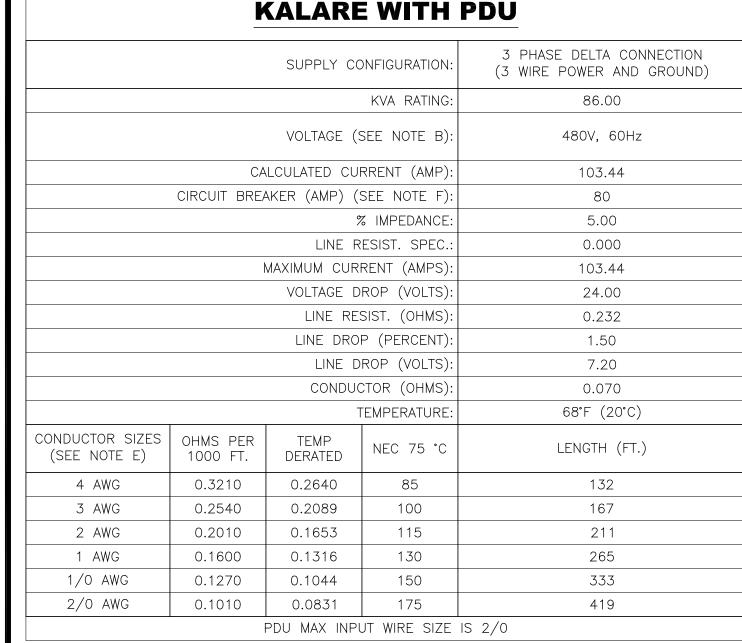
FLOOR ELECTRICAL SCHEMATIC (PROVIDED FOR REFERENCE PURPOSES ONLY)

CEILING CONDUIT SCHEDULE

- NOTE:
 A. CONDUITS SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.
 B. ALL CONDUIT RUNS MUST TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE.
 C. CONDUITS MAY HAVE A MAXIMUM OF (3) 90° BENDS.
 D. CONDUIT 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.
- * FINAL LENGTH OF CONDUIT TO BE DETERMINED IN FIELD BY I.P.M.

			FLC	OR CO	NDUIT SC	HEDU	JLE					0.0
			CONTRACTOR	CONDUIT REFEI	RENCE		тоѕнів	A CABLE REFER	ENCE	 <u>≻</u>	RE)	PKWY 1705(
RUN NO.	CON (POINT T		CONDUIT (ROUTING)	CONDUIT (DIAMETER)	CONDUIT (MAX. LENGTH)	CAI (POINT T		CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY)	LOG A		
6	JB4	(JB5)	UNDER FLOOR	2 1/2"	28'-0" -	GCP MPU GCP	TCU RCU TBL XRC	SEE RUN "I" DETAIL (1/E4) SEE RUN "Q" DETAIL (1/E4) SEE RUN "R" DETAIL (1/E4) SEE RUN "M" DETAIL (1/E4)	TOSHIBA TOSHIBA TOSHIBA	TAN RADIO	ROOM - KAL	TECHNOLOGY IICSBURG, PA
7	JB4	JB1	UNDER FLOOR	2 1/2"	45'-0" -	MPU DRX	\(\sqrt{xRC}\) \(\sqrt{xRC}\)	SEE RUN "U" DETAIL (1/E4) 75'-0"	TOSHIBA TOSHIBA	TRIS	(R/F	2015 TE MECHANIC
										THESE TOSH INFORMATION AND SHALL ANY PURPOS AGREED UPO AND THE CU PLANS ARE FOR CONSTR	AL PUR NOT BE E OTHEI N BETW STOMER NOT T	POSES ONLE USED FOR THAN THASEN TOSHIBLE SITE OF BE USE
										DATE: SCALE:		28-13 = 1'-0"
										PLANNER:		J.A.D.
										S.I.D.:	30	006080
										PROJECT N		3XRF

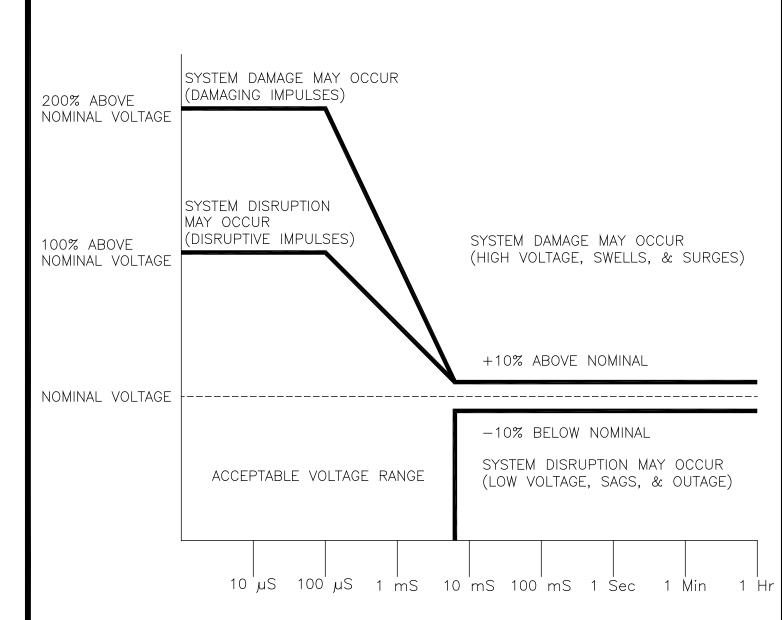


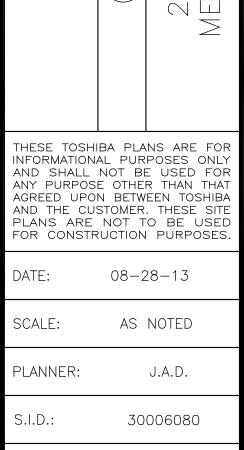


POWER QUALITY REQUIREMENTS

STANDARD POWER QUALITY NOTES

- A. 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.
- GROUND CONDUCTORS SHOULD BE RUN SEPARATE FROM PHASE CONDUCTORS.





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PROJECT NO. 130013743XRF1

"X-RAY ON" OR WARNING LIGHT TO BE PROVIDED BY CUSTOMER/CONTRACTOR. . USE INCANDESCENT FIXTURES ONLY. **WARNING LIGHT DETAIL** SCALE: NOT TO SCALE 06-01-12

TYPICAL WALL DUCT DETAIL WITH FLOOR DUCT / J-BOX / VERTICAL RISER

KALARE W/ PDU POWER REQUIREMENTS SCALE: NOT TO SCALE

E3

CUSTOMER SUPPLIED | TOSHIBA SUPPLIED 24V RELAY SUPPLIED BY CUSTOMER/CONTRACTOR LOCATE RELAY BOX IN CEILING AWAY FROM TOSHIBA EQUIPMENT. "X-RAY ON" WARNING LIGHT MOUNTED ABOVE SCAN ROOM DOOR. "X-RAY ON" OR WARNING LIGHT ON WARNING LIGHT PER TOSHIBA X-RAY JUNCTION BOX "WL" ON SIGNAL. (MAX. 120mA CONTACT) NEUTRAL RELAY HOSPITAL SUPPLIED 120V, 15A MAX.

CIRCUIT BREAKER WITH "PDU" WIRING DIAGRAM

SCALE: NOT TO SCALE

SURFACE MOUNTED WALL DUCT W/(3) EQUALLY DIVIDED PARTITIONS GROMMETED OPENINGS THROUGHOUT W/ PARTITION OR SPLIT ACCESS COVER CUT-OUTS AT OPENINGS. ON FACE OF WALL DUCT. 45° SECTION FOR ALL WALL DUCT CORNERS. FLUSH MOUNTED J-BOX (OPEN TO WALL DUCT) REMOVABLE COVER. NOTE: 45° SECTION FOR ALL FLOOR DUCT CORNERS. SURFACE MOUNTED FLOOR OPTIONAL 45° EDGES OR AS DUCT W/(3) EQUALLY DIVIDED PER CODE (FIELD VERIFY) PARTITIONS THROUGHOUT.

CUSTOMER'S CONTRACTOR TO VERIFY LOCATION OF J-BOX(ES) FOR CABLE PULL TO WALL DUCT. CUSTOMER'S CONTRACTOR TO VERIFY LOCATION OF GROMMETED OPENINGS IN WALL DUCT WITH

SCALE: NOT TO SCALE

TOSHIBA REP.

10-07-1

