



DRAWING CONTENTS

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PROJECT:		SITE INSPECTION DATE:	
EQUIPMENT DELIVERY DATE:		INSPECTED BY:	
<p>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:</p>			
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 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 INTERVIEWING.		
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.	"PCDU/VROU/UPS" INSTALLED AND CONNECTED TO "CB".		
27.	SEISMIC REQUIREMENTS, AND REQUIRED SEISMIC ANCHORING DEVICES INSTALLED (IF APPLICABLE).		
28.	NETWORK CONNECTIONS INSTALLED AND OPERATIONAL.		
29.	ALL APPLICABLE PERMITS OBTAINED.		
<p><b>NOTICE:</b>  <b>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.</b></p>			
COMMENTS:			
SIGNED TOSHIBA:			
CONTRACTOR:			
CUSTOMER:			

ATR COOLING UNIT  
 3" FROM FRONT CENTER OF UNIT.  
 6 dB = 3"-3"

SOLANT CIRCULATOR  
 3" FROM FRONT CENTER OF UNIT.  
 7 dB (71 dB DURING ALARM BEEPING)

TP-8000  
 6 dB

TP-8100G CABINETS  
 SOUND PRESSURE LEVEL, NOT ACOUSTIC  
 MEASURED 3'-3" FROM FRONT CENTER  
 0 dB STANDBY  
 6 dB PULSE FLUORO

**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, MONITORS, ETC. SPECIFICATIONS FOR THOSE ITEMS MUST BE OBTAINED FROM THE VENDOR AND INCLUDED IN THE DESIGN TALS.

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. IT IS RECOMMENDED THAT CARDIO/VASCULAR EQUIPMENT REMAIN OUTSIDE 1 GAUSS FIELD OF MR EQUIPMENT.

**TRANSPORT REQUIREMENTS**

P. EQUIPMENT INGRESS ROUTE MUST BE CHECKED PRIOR TO EQUIPMENT DELIVERY TO ENSURE THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT CAN BE ACCOMMODATED. DIMENSIONS OF CORRIDORS SHOULD BE NO LESS THAN 5'-11".

Q. RECOMMENDED ENTRANCE TO SCAN ROOM SHOULD BE NO LESS THAN 4'-0" W X 6'-11" H FOR EQUIPMENT DELIVERY.

R. CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR DETAILS OF THE LARGEST AND HEAVIEST ITEMS OF EQUIPMENT FOR THIS INSTALLATION.

**NETWORK REQUIREMENTS**

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

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

SYSTEM OPERATION AMBIENT TEMPERATURE RANGE: 64° - 91° F

RECOMMENDED TEMPERATURE PER ROOM:

EXAM ROOM:	64° - 74° F
CONTROL ROOM:	64° - 74° F
EQUIPMENT ROOM:	73° - 78° F

WITH EQUIPMENT HEAT LOADS (SEE EQUIPMENT LEGEND SHEET A1)  
HUMIDITY RANGE OF 35-70% NON-CONDENSING

NOTE:

- A MINIMUM OF 10 AIR CHANGES PER HOUR IS SUGGESTED, CONSULT LOCAL CODE.
- AIR SUPPLY DUCTS SHOULD NOT BE PLACED DIRECTLY OVER EXAMINATION TABLES FOR PATIENT COMFORT.
- EQUIPMENT IN ENCLOSED SPACES SUCH AS EQUIPMENT ROOMS, TRANSFORMER CLOSETS AND COMPUTER ROOMS MUST BE PROVIDED WITH ADEQUATE VENTILATION.
- AIR FLOW THROUGH TOSHIBA EQUIPMENT CABINETS IS FROM BOTTOM TO TOP. WHERE POSSIBLE, AIR CONDITIONING SUPPLY OUTLETS SHOULD BE LOCATED AT FLOOR LEVEL WITH RETURN GRILLES IN THE CEILING.
- A/E/C SUPPLY OUTLET TO BE PROVIDED BY CUSTOMER AT FLOOR LEVEL AT CONTROL ROOM DESK.
- A THERMOSTAT IS REQUIRED IN EACH ROOM THAT CONTAINS TOSHIBA EQUIPMENT.
- THE EQUIPMENT ROOM(S) THERMOSTAT REQUIRES A VISUAL AND AUDIBLE ALARM WHEN THE TEMPERATURE REACHES 78° F.

11-06-14

C-ARM & TABLE  
ACCELERATION MUST BE  $0.397''/S^2$  (1 CM/S<sup>2</sup>) OR LESS, IF FREQUENCY BAND OF VIBRATION IS LESS THAN 10 Hz.  
  
ACCELERATION MUST BE  $3.9375''/S^2$  (10 CM/S<sup>2</sup>) OR LESS, IF A FREQUENCY BAND OF VIBRATION IS EQUAL TO OR MORE THAN 10 Hz.

MAXIMUM CEILING HEIGHT: 9'-10 1/8"  
RECOMMENDED CEILING HEIGHT: 9'-4"  
MINIMUM CEILING HEIGHT: 9'-2 1/4"

NOTE:

A. ALL CEILING HEIGHTS OVER 9'-6 3/16" WILL REQUIRE THE CUSTOMER PURCHASE OF ADDITIONAL SPACER KIT (XCHA-001A).

B. IF FLOOR MOUNTED C-ARM IS SURFACE MOUNTED, ADD 1" TO THE MINIMUM CEILING HEIGHT.

C. IF TABLE BASE AND/OR C-ARM IS FLUSH IN FLOOR, CONSULT SITE PLANNING.

11-06-14

**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.

CEILING STRUCTURAL SYSTEMS

- G. 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.

UNISTRUT NOTES

- H. CEILING UNISTRUT SUPPORT STRUCTURES TO BE DESIGNED BY OTHERS BASED ON SPECIFICATIONS SHOWN ON TOSHIBA SITE PLANS (IF APPLICABLE).
- I. UNISTRUT OR EQUIVALENT CHANNEL SUPPORT SYSTEM TO BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR (IF APPLICABLE).
- J. 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 1/8" PER FOOT. UNISTRUT ARE TO BE CAPABLE OF SUPPORTING LOAD REQUIREMENTS OF TOSHIBA EQUIPMENT, UNISTRUT LOAD REQUIREMENTS AND DESIGN ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD.
- K. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL UNISTRUT P2751 TROLLEYS OR EQUIVALENT, CONTACT THE TOSHIBA INSTALLATION PROJECT MANAGER FOR APPLICABILITY AND QUOTE OF TROLLEYS. UNISTRUT TROLLEYS SHOULD HAVE VINYL WHEELS.

ACCESS NOTE

- L. CUSTOMER/CONTRACTOR TO PROVIDE 20" x 24" x 1/4" CEILING ACCESS PANELS FOR SERVICING OF CEILING MOUNTED EQUIPMENT, A MINIMUM CLEARANCE OF 36" ABOVE FINISHED CEILING IS REQUIRED IN THE AREA OF THE ACCESS PANELS.

11—06—

**SPECIAL SEISMIC CERTIFICATION**

A. THE FOLLOWING COMPONENTS HAVE SPECIAL SEISMIC CERTIFICATION:

A.A. OSP-0162-10  
PCDU/VRDU (AS APPLICABLE)

A.B. OSP-0013-10  
EATON UNINTERRUPTIBLE POWER SUPPLY-9390 (AS APPLICABLE)

A.C. OSP-0088-10  
C & C POWER INC. BATTERY CABINET-BC55 (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.

11-06-14

SUPPLY CONFIGURATION: 3 PHASE DELTA OR WYE  
125 KVA  
SUPPLY VOLTAGE: 480V - 100 AMP

**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 TRIP 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 GASTIGHT 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 A MINIMUM OF THREE COMPARTMENTS. 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. 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(S) 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 MAY BE INCREASED AS NEEDED (WITH THE EXCEPTION OF THE "PCDU" OR "VRDU" OR "PDU" JUNCTION BOX).

11-006

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

LAB - INFINIX ELITE/CM12)  
4100 W. 3RD STREET  
DAYTON, OH 45428

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: 12-22-14

SCALE: NOT TO SCALE

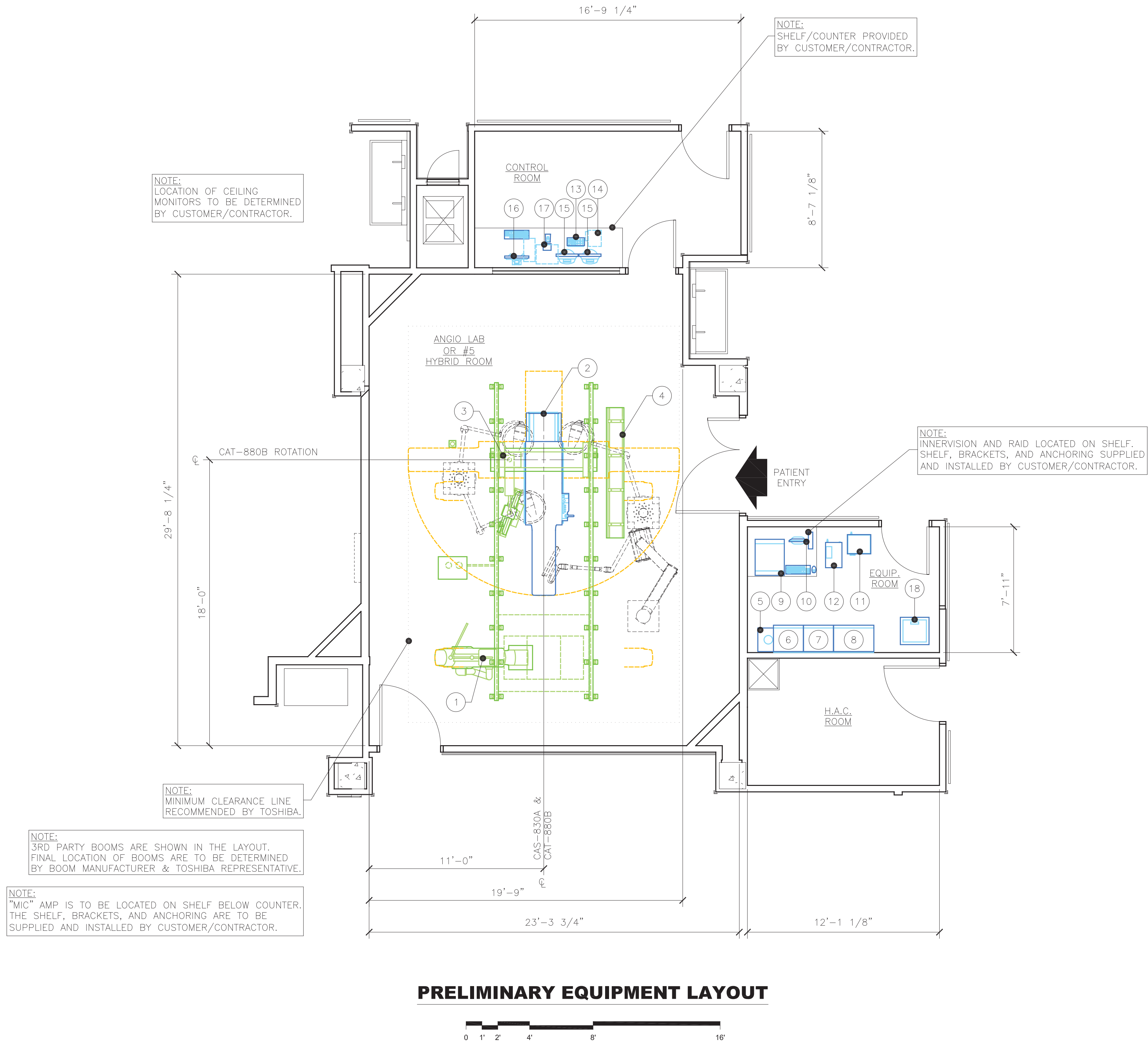
PLANNER: M.C.

QUOTE: 62798-1

PROJECT NO.  
**140014987VLP1**

TS-**GN**





PRELIMINARY EQUIPMENT LAYOUT

EQUIPMENT LEGEND

ITEM	ELEC. SYM.	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
1	C830	CAS-830 CEILING MOUNTED C-ARM AND RAILS	136	2,073	1&2 A2
2	CAT	CAT-880B PATIENT TABLE (CRADLE TILT)	1,843	1,389	4 A2
3	MS	IDI FP-2 MONITOR SUSPENSION & (2) LCD MONITORS	-	450	-
4	RSL	2.5M TRACK WITH RADIATION SHIELD	-	167	-
5	CABS	XTP-8100G CABINET SIDE COVER	-	89	1 A3
6	CAS	RACK CABINET (CAS-880 C-ARM CONTROL CABINET)	1,536	331	2 A3
7	PC	RACK CABINET (GENERATOR POWER CABINET)	9,350	508	2 A3
8	DFF	RACK CABINET (DFF-8000B SYSTEM CABINET)	5,119	926	3 A3
9	RAID	RAID (BTU/HR INCLUDED WITH DFF)	-	67	4 A3
10	INV	INNERVISION WORKSTATION (15" MONITOR, KEYBOARD, AND PC)	500	22	5 A3
11	WCU	HEX-125 WATER COOLING UNIT (WEIGHT WITHOUT WATER)	4,675	67	6 A3
12	CC	FPD COOLANT CIRCULATOR (WEIGHT WITHOUT COOLANT)	3,754	98	7 A3
13	CONS	DFF-8000D MAIN CONTROL CONSOLE	-	6	8 A3
14	CCB	DFF-8000D DIGITAL FLUOROGRAPHY CONSOLE CONTROL INTERFACE BOX	-	45	9 A3
15	LCD	LCD MONITOR WITH STAND	-	26	10 A3
16	AWS	ANGIO WORKSTATION (21" MONITOR, MOUSE, KEYBOARD, AND WORSTATION)	-	51	11 A3
17	MIC	MICROPHONE AMPLIFIER	-	49	12 A3

ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED & INSTALLED BY TOSHIBA	BTU/HR	WEIGHT	REF.
18	PCDU	PCDU-100VL POWER CONDITIONING DISTRIBUTION UNIT	2,421	700	13 A3
ITEM	ELEC. SYM.	OPTIONAL ITEM DESCRIPTION - SUPPLIED BY CUSTOMER / CONTRACTOR	BTU/HR	WEIGHT	REF.
19	PHY	PHYSIOLOGICAL EQUIPMENT (NOT SHOWN)	-	-	-

SITE PLAN APPROVAL

IN ORDER TO REQUEST A 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. ALL NECESSARY AND DESIRED MODIFICATIONS ARE TO BE NOTED ON THIS SET AND SUBMITTED TO T.A.M.S. SITE PLANNING DEPARTMENT.

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

**TOSHIBA**  
Leading Innovation

INT	M.S.				
REV	DATE	DESCRIPTION			
1	11-21-14	ORIGINAL PRELIMINARY DRAWINGS COMPLETED.			
2	12-22-14	UPDATED "MS", "RSL" & BLOCK TO LONG RAILS.			

VA DAYTON

(ANGIO LAB - INFINIX ELITE/CM12)

4100 W. 3RD STREET  
DAYTON, OH 45428

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DATE: 12-22-14

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

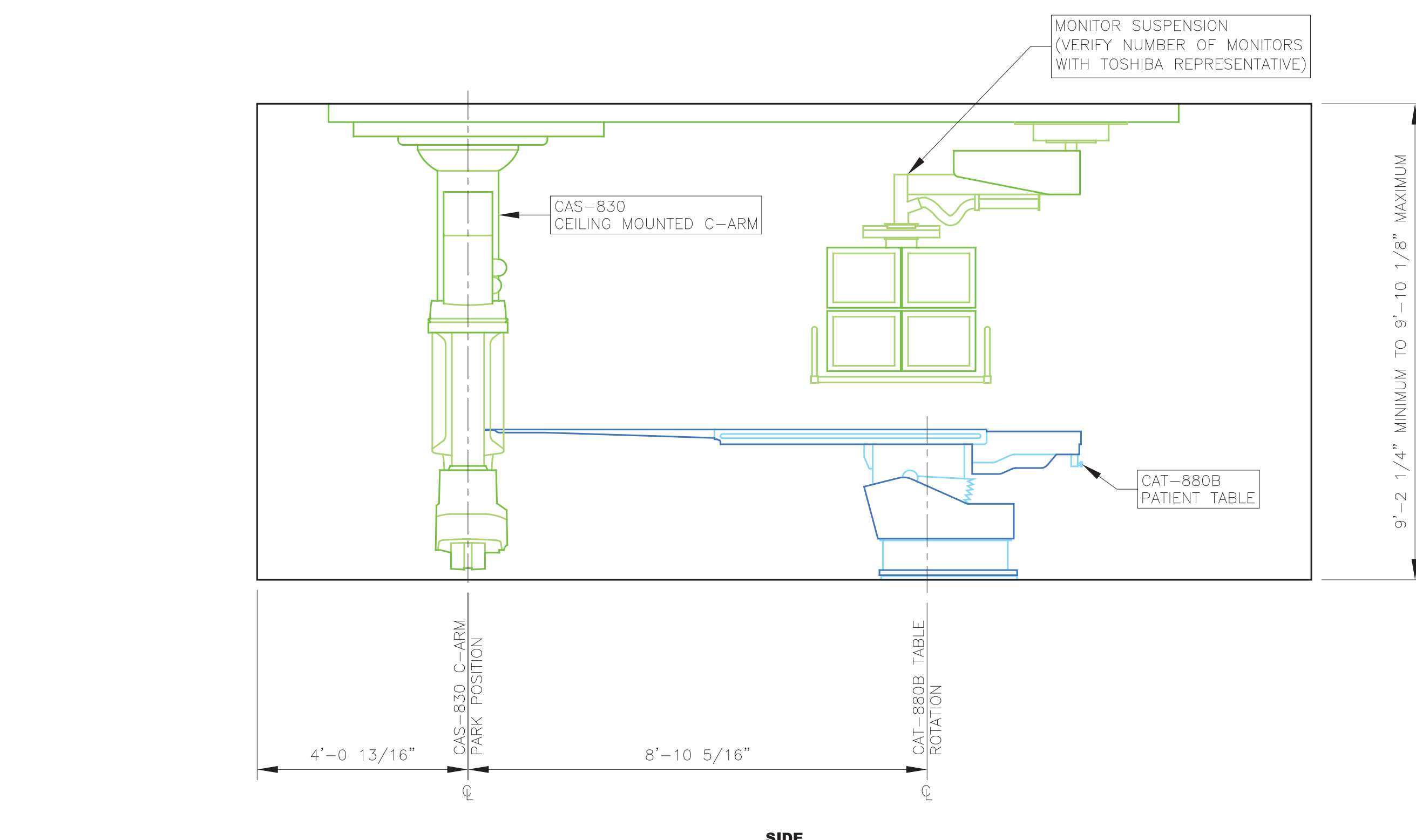
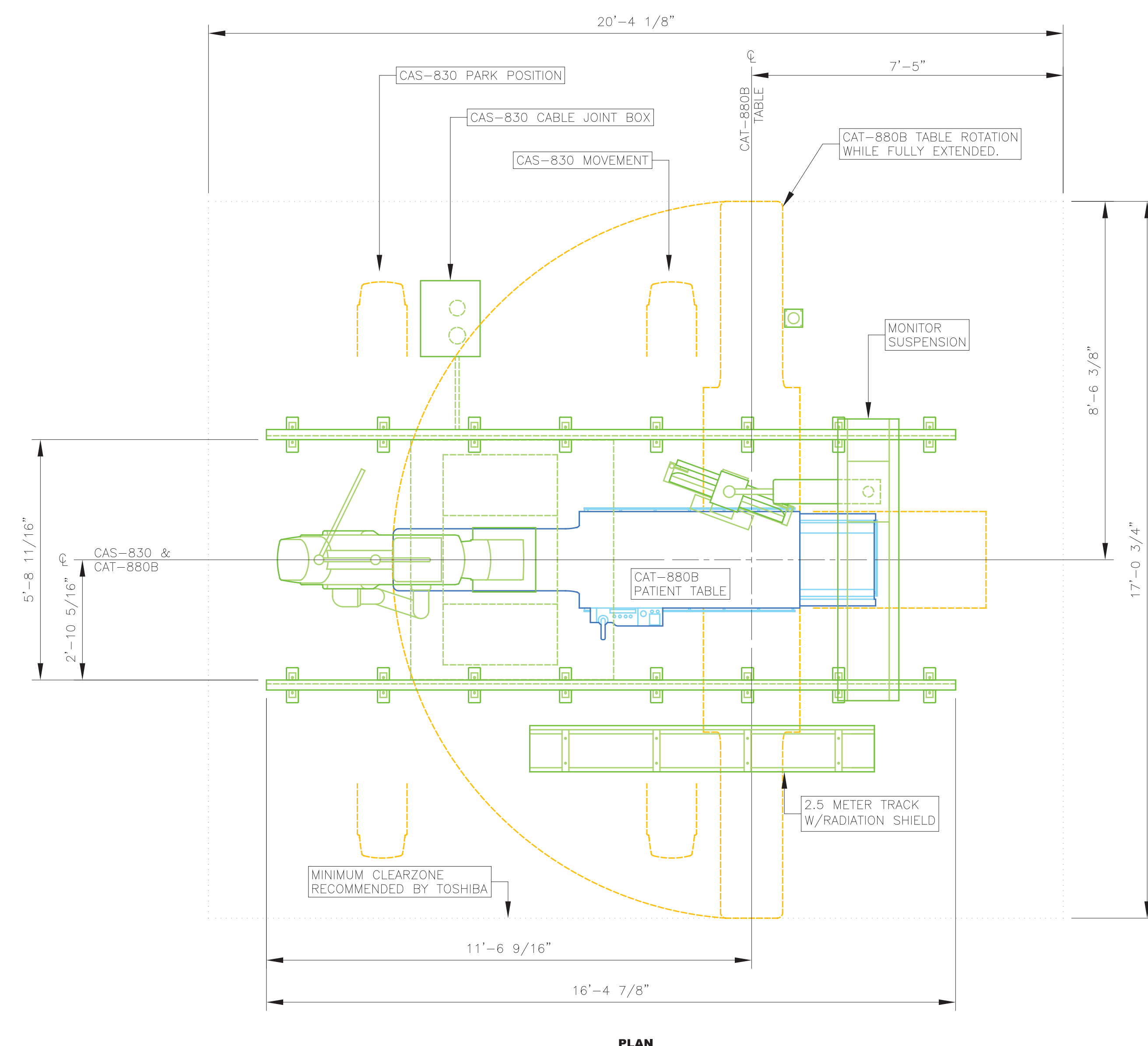
PLANNER: M.C.

QUOTE: 62798-1

PROJECT NO.  
**140014987VLP1**

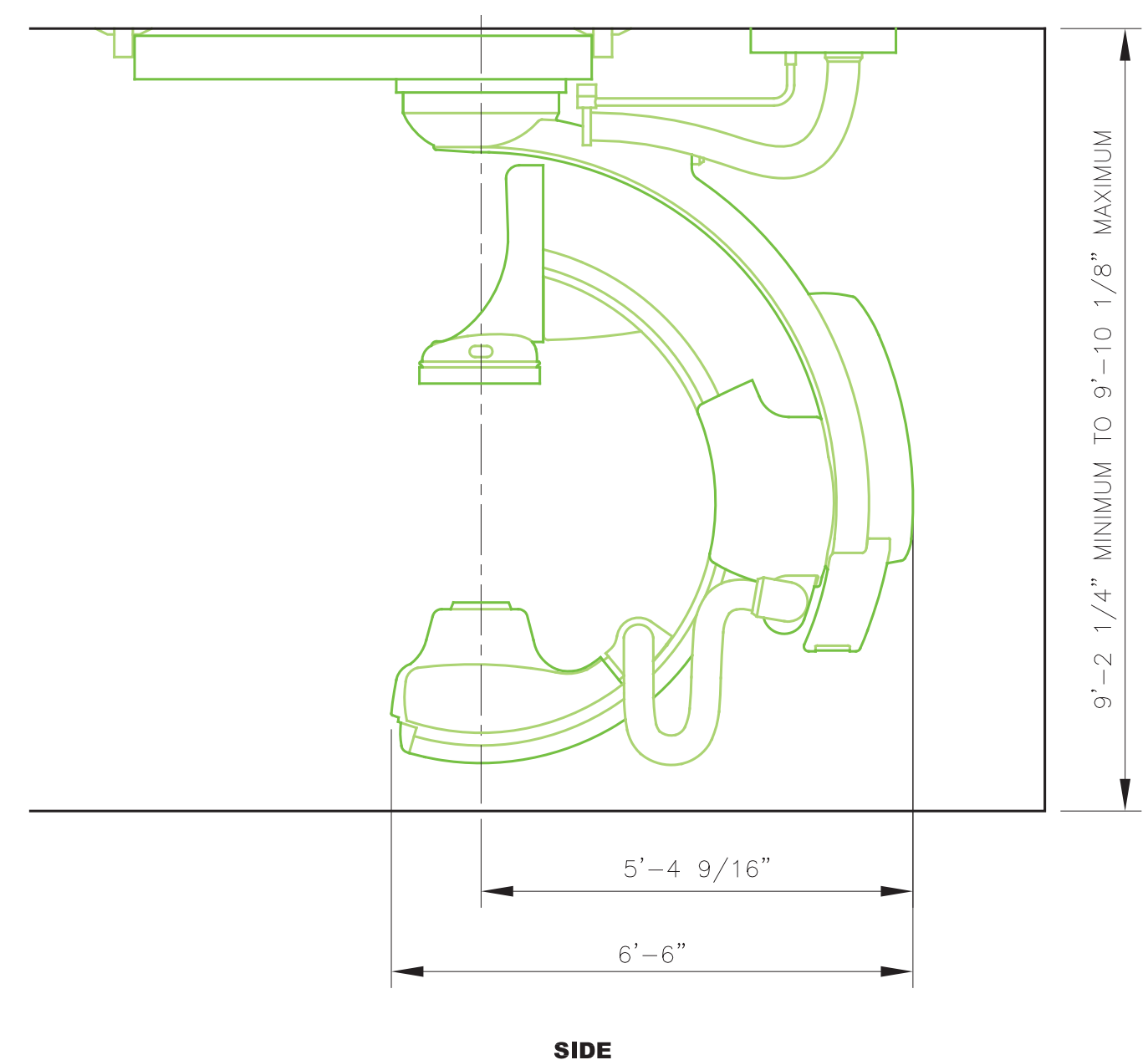
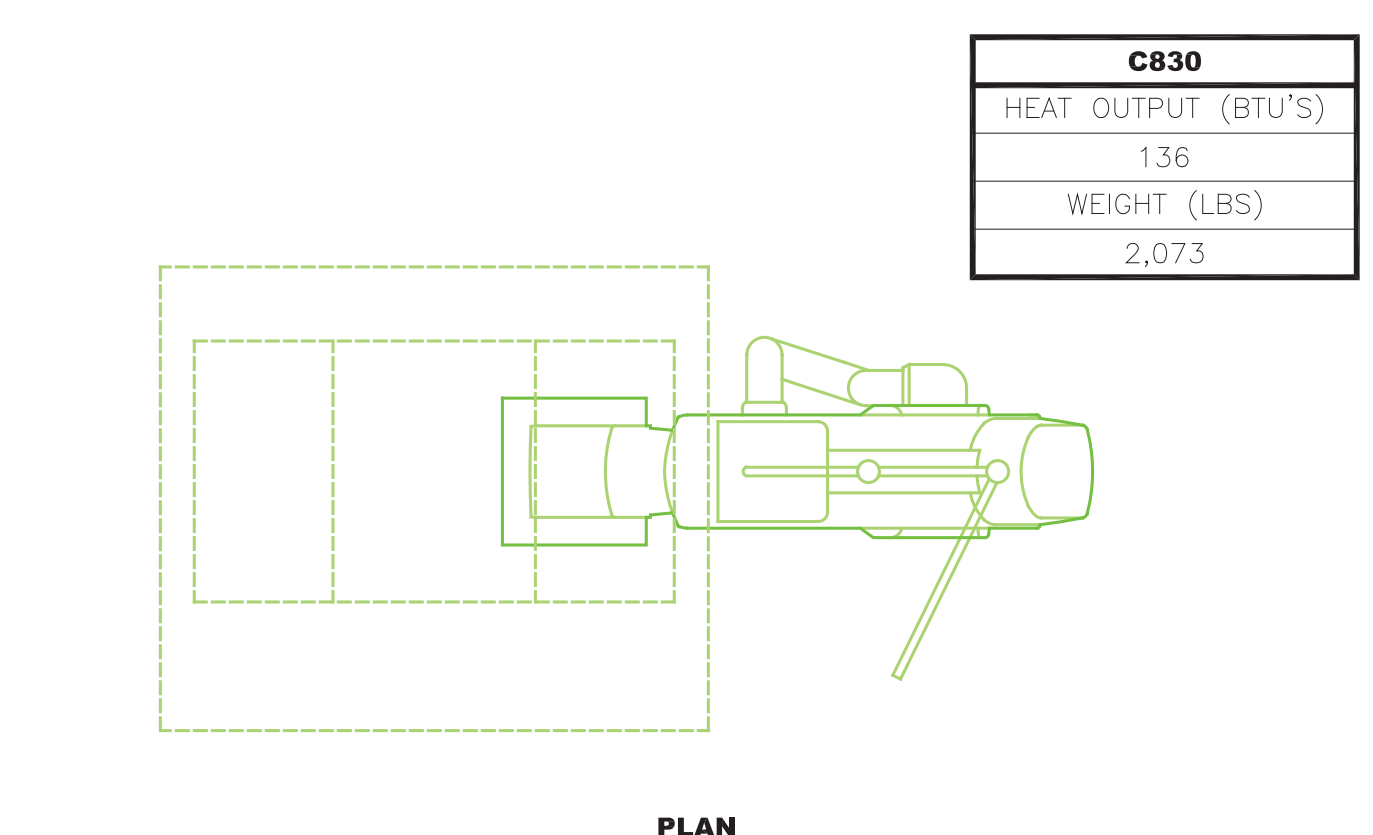
**TS-A1**

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



**1 INFINIX ELITE/CM**  
SCALE: 1/2" = 1'-0"

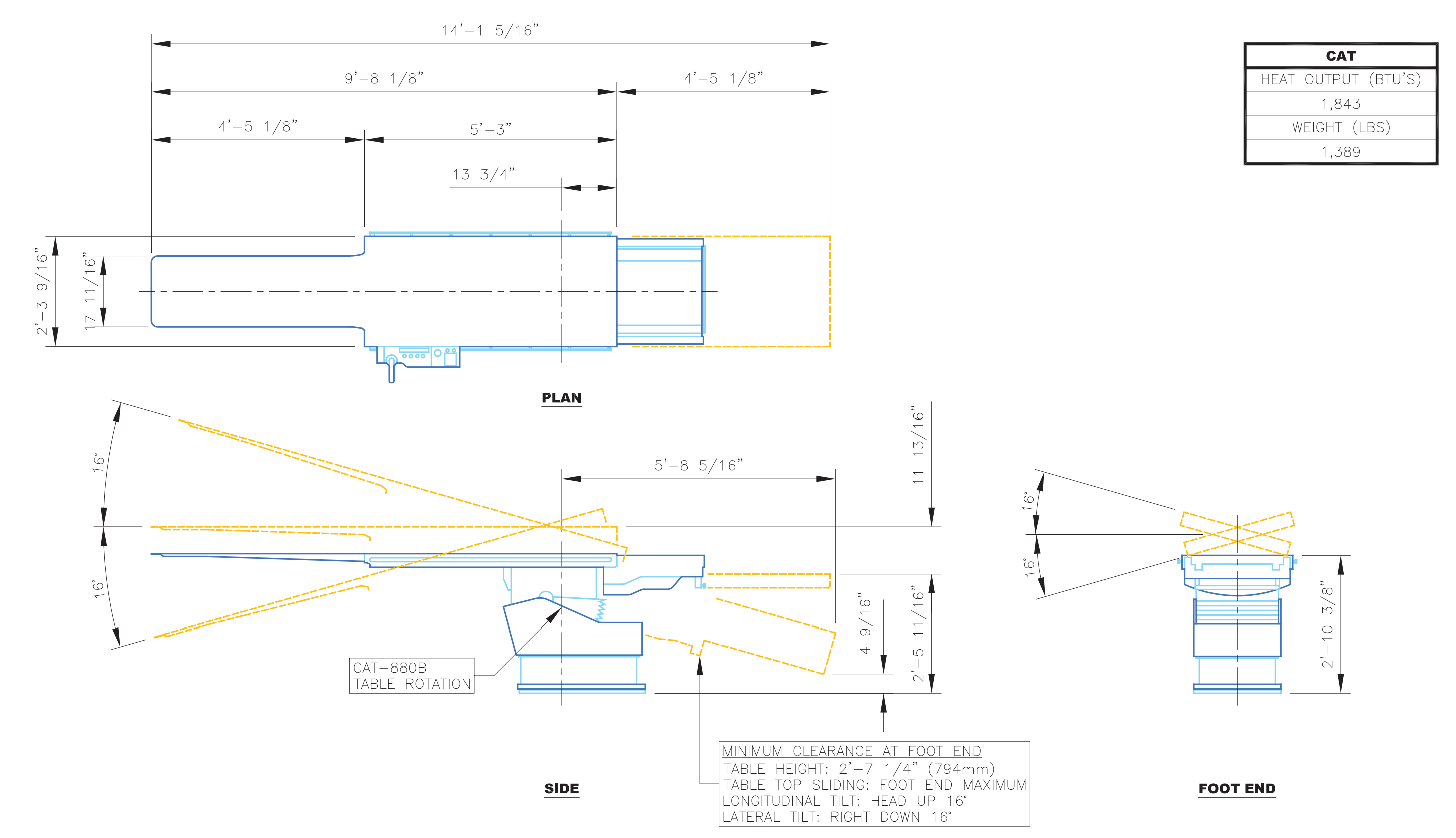
11-06-14



C830
HEAT OUTPUT (BTU'S)
136
WEIGHT (LBS)
2,073

**2 CAS-830 CEILING MOUNTED C-ARM**  
SCALE: 1/2" = 1'-0"

11-06-14



CAT
HEAT OUTPUT (BTU'S)
1,843
WEIGHT (LBS)
1,389

**3 CAT-880B PATIENT TABLE (CRADLE TILT)**  
SCALE: 1/2" = 1'-0"

11-06-14

**TOSHIBA**  
Leading Innovation >>>

REV	DATE	DESCRIPTION	INT
1	11-21-14	ORIGINAL PRELIMINARY DRAWINGS COMPLETED.	M.S.
2	12-22-14	NO CHANGES MADE TO THIS SHEET.	M.C.

**VA DAYTON**

(ANGIO LAB – INFINIX ELITE/CM12)

4100 W. 3RD STREET  
DAYTON, OH 45428

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DATE: 12-22-14

SCALE: AS NOTED

PLANNER: M.C.

QUOTE: 62798-1

PROJECT NO.  
**140014987VLP1**

TS- **A2**

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

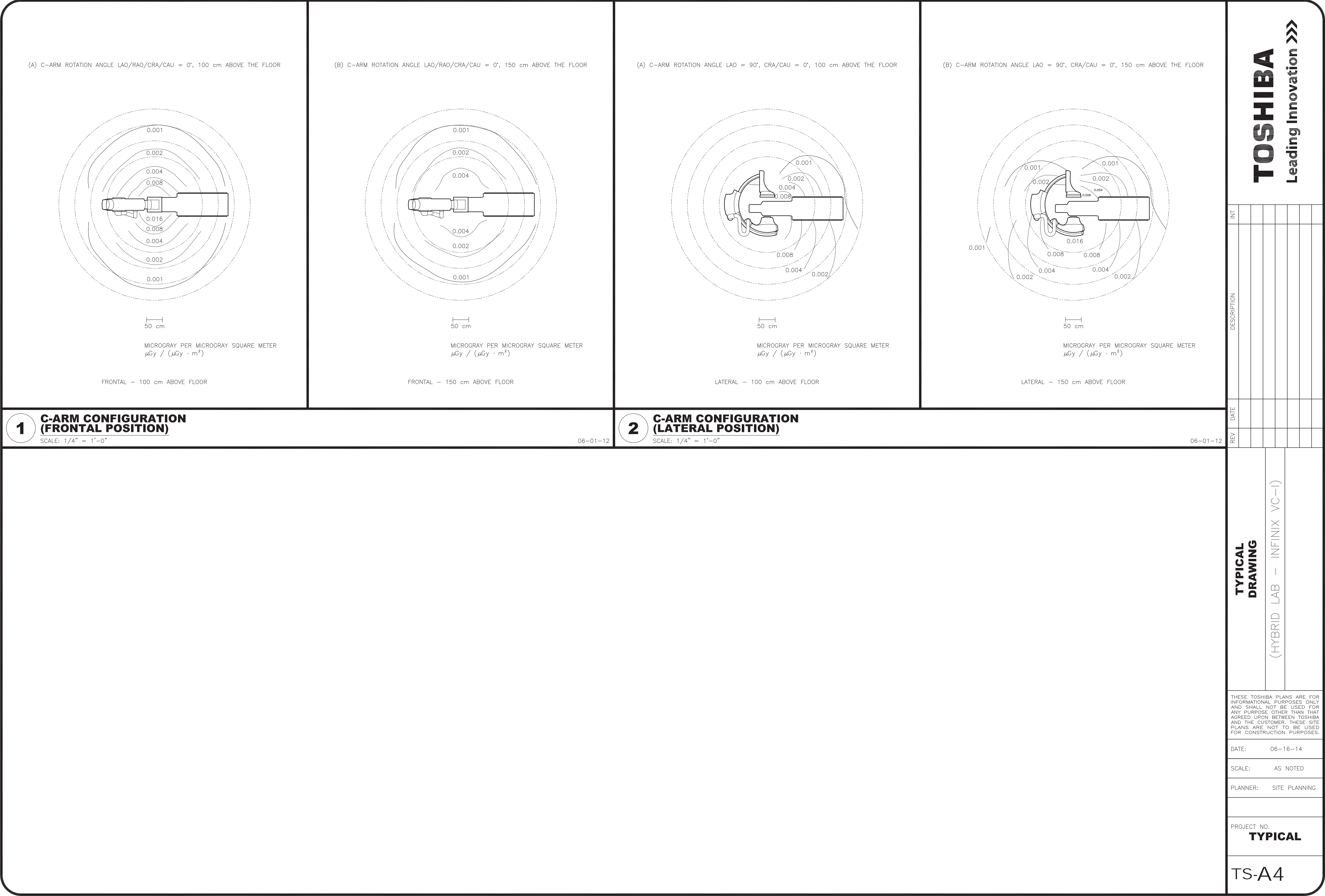




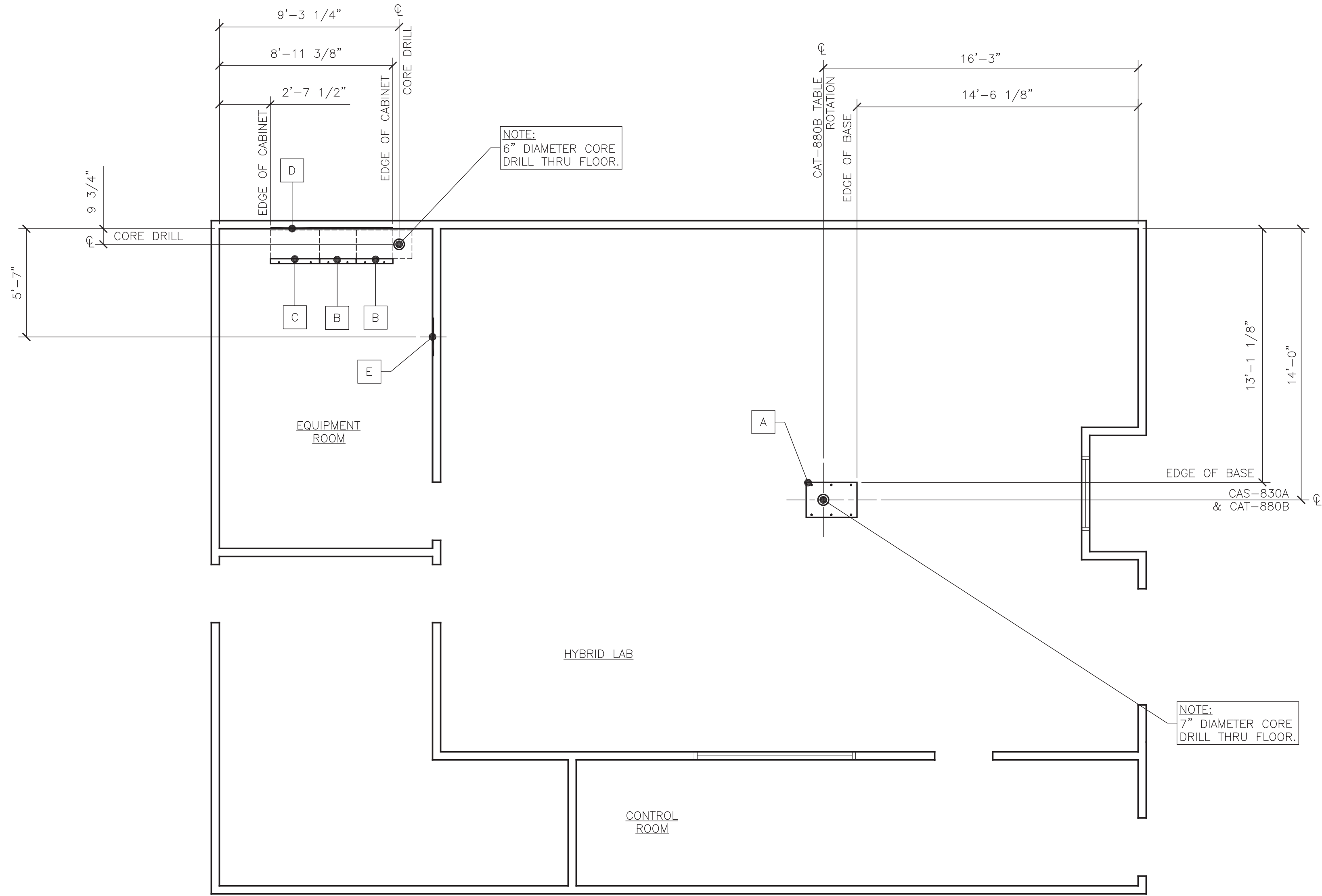
# Infenix VC-i

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A2	EQUIPMENT ELEVATIONS	SEE VA DAYTON FOR SITE SPECIFC DRAWINGS.
A3	EQUIPMENT ELEVATIONS	SEE VA DAYTON FOR SITE SPECIFC DRAWINGS.
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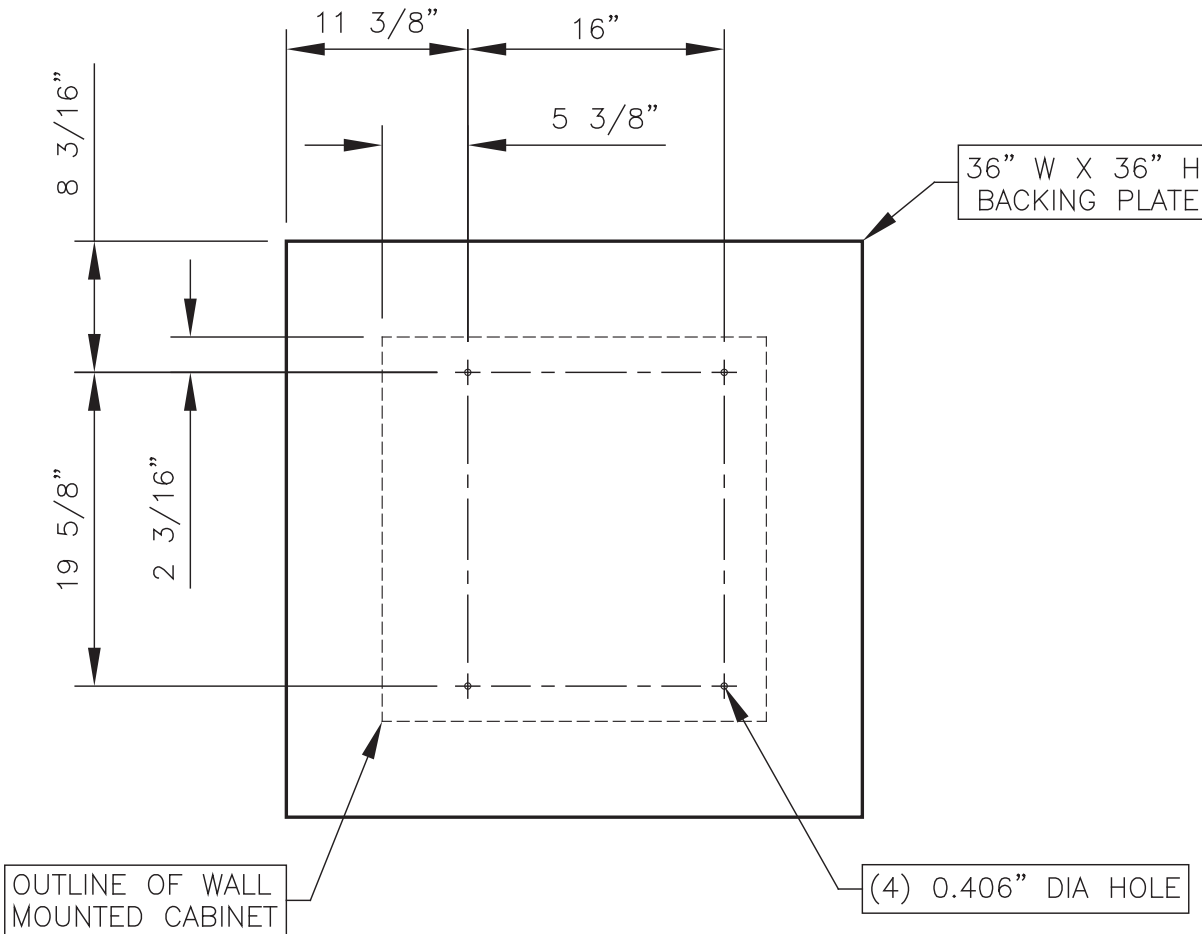
FLOOR SUPPORT LAYOUT



NOTE:  
CUSTOMER/CONTRACTOR TO SUPPLY/INSTALL  
ALL ANCHORS PER STRUCTURAL ENGINEER  
OF RECORD SPECIFICATIONS.

FLOOR STRUCTURAL LEGEND

ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY TOSHIBA	REF.
A	CAT-880B TABLE BASE	1&4 S3
ITEM	ITEM DESCRIPTION SUPPLIED BY TOSHIBA AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
B	ANCHOR BRACKET FOR RACK CABINET, VERIFY LOCATION W/TOSHIBA REP.	4 S3
C	ANCHOR BRACKET FOR DFP SYSTEM CABINET, VERIFY LOCATION W/TOSHIBA REP.	4 S3
ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
D	BACKING PLATE FOR RACK CABINETS, VERIFY LOCATION W/TOSHIBA REP.	5 S3
E	36"W X 36"H, BACKING PLATE FOR "LMM". HEIGHT TO BE DETERMINED AT TIME OF INSTALLATION.	1 S1



1 LARGE MONITOR MANAGER  
BACKING PLATE

SCALE: 1" = 1'-0"

07-16-13

REV	DATE	DESCRIPTION	INT

TYPICAL  
DRAWING

(HYBRID LAB – INFINIX VC-I)

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AND THE CUSTOMER. THESE SITE  
PLANS ARE NOT TO BE USED  
FOR CONSTRUCTION PURPOSES.

DATE: 06-16-14

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

PLANNER: SITE PLANNING

PROJECT NO.  
TYPICAL

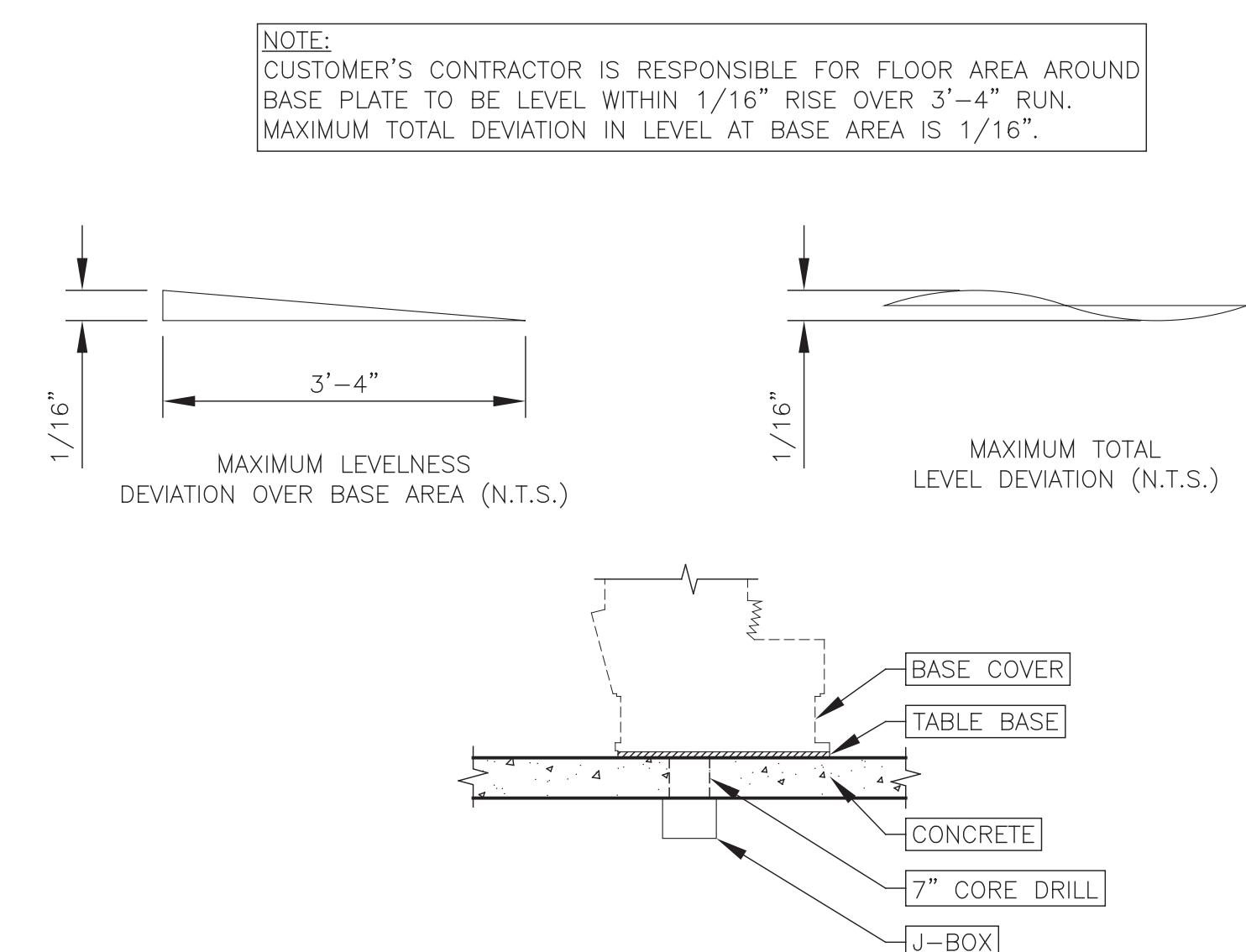
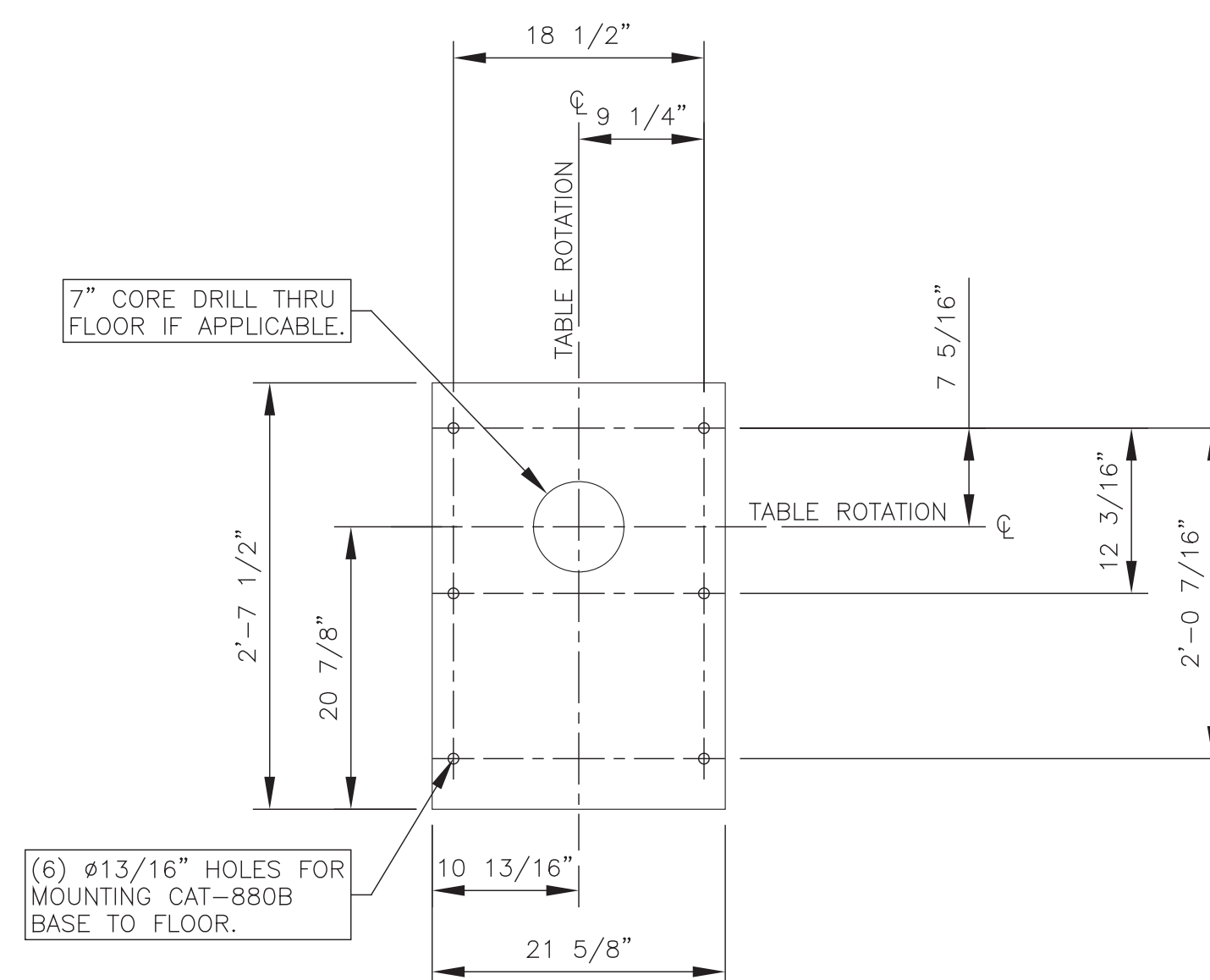
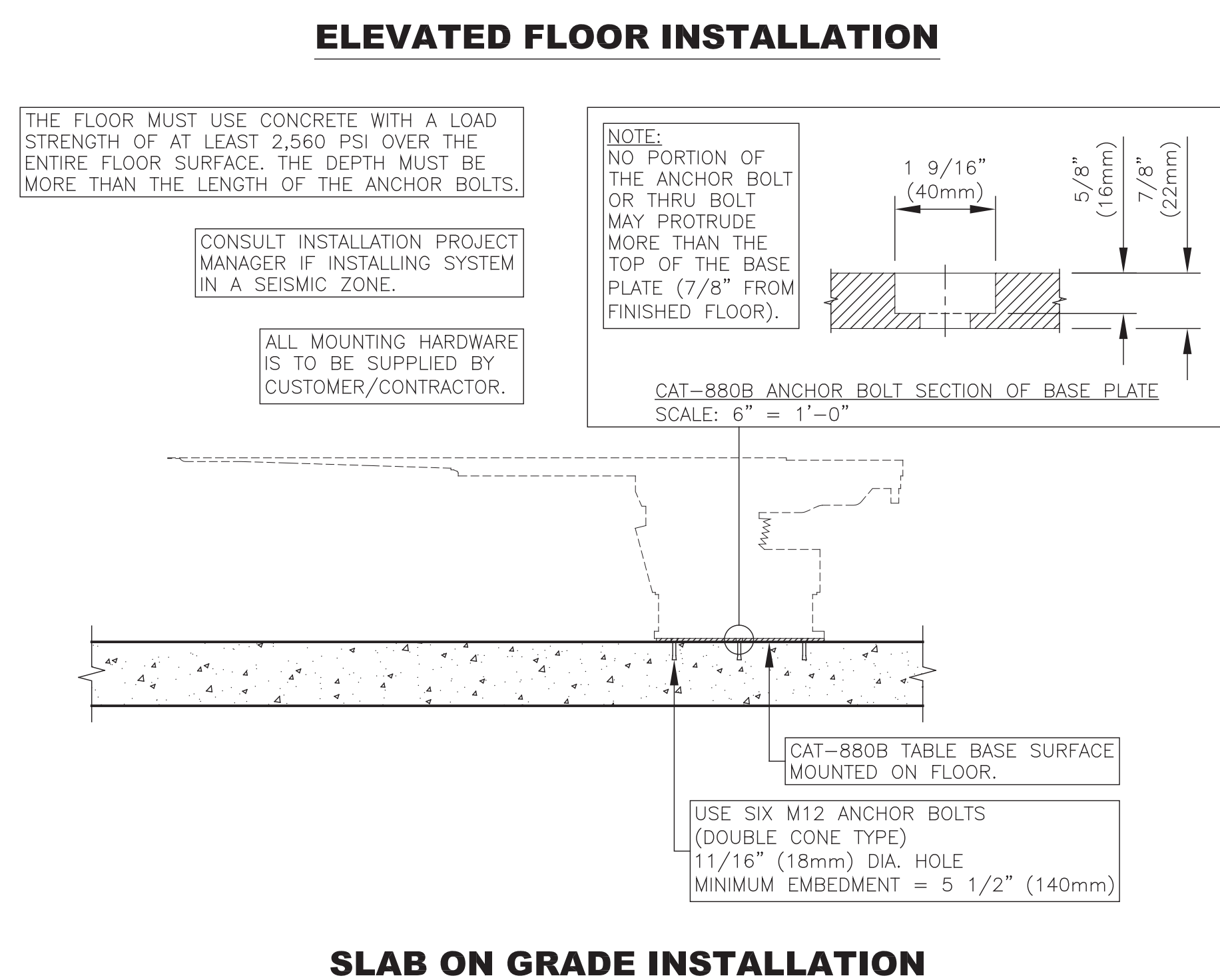
TS-S1

TOSHIBA  
Leading Innovation >>>

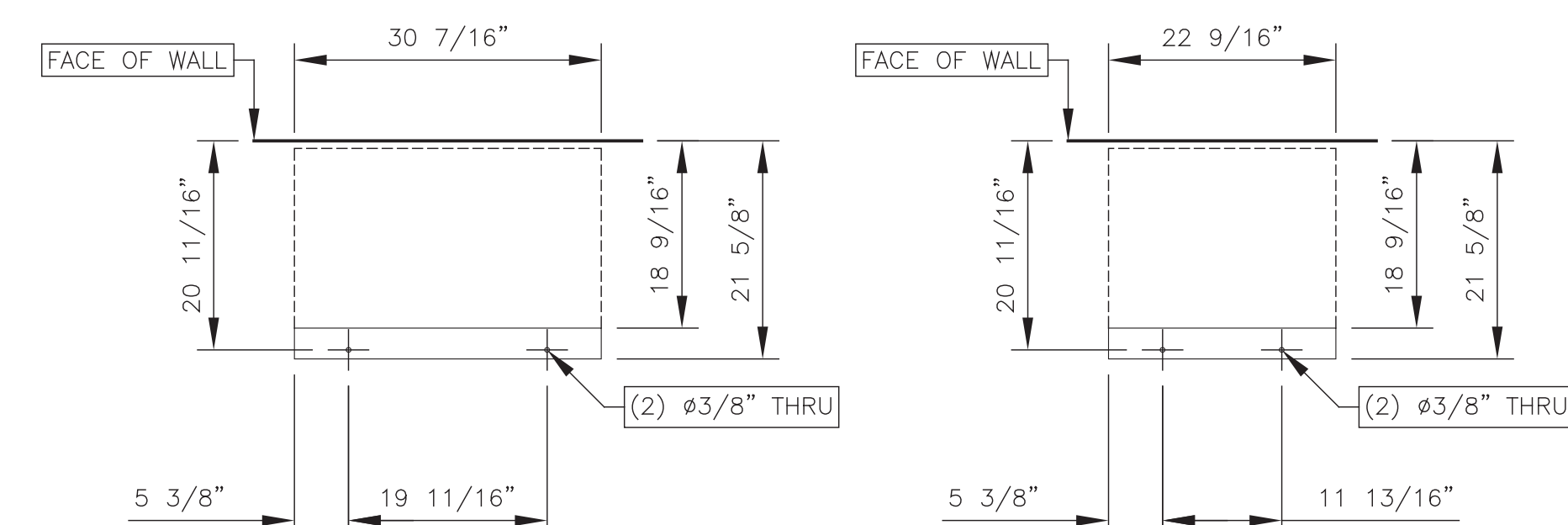
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### 3 CAT-880B TABLE INSTALLATION (SURFACE MOUNTED ON FLOOR W/CORE DRILL)



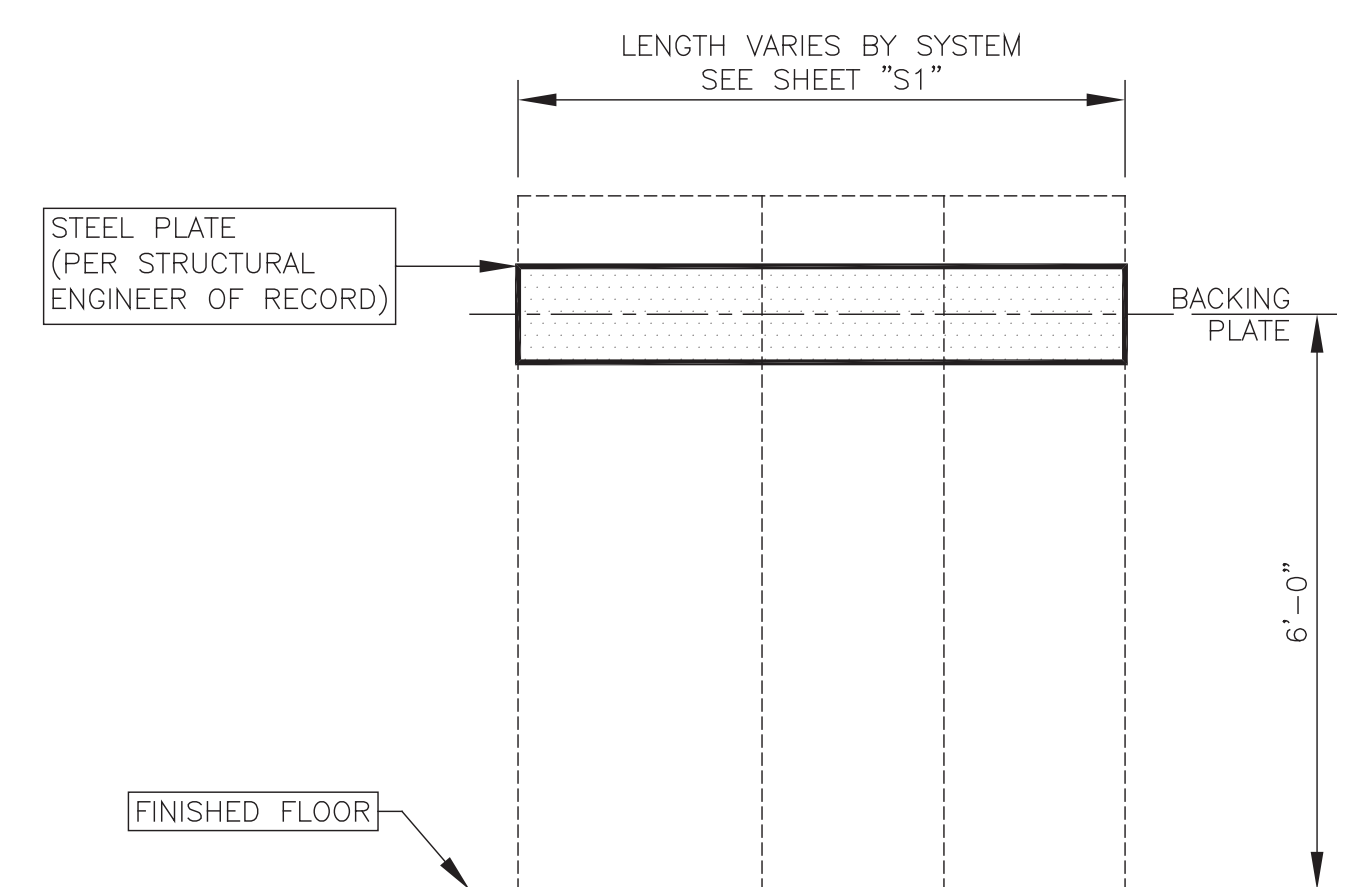
### **"DFP" CABINET BASE PLATE**

### **SINGLE CABINET BASE PLATE**

NOTE:

1. FLOOR AREA AROUND BASE PLATES TO BE LEVEL WITHIN A 1/16" RISE OVER 3'-4" RUN.
2. BOLT FORCES TO BE COORDINATED BY TOSHIBA INSTALLATION PROJECT MANAGER & CUSTOMER'S STRUCTURAL ENGINEER OF RECORD.

## 1 TYPICAL FLOOR MOUNTING FOR CAT-880B



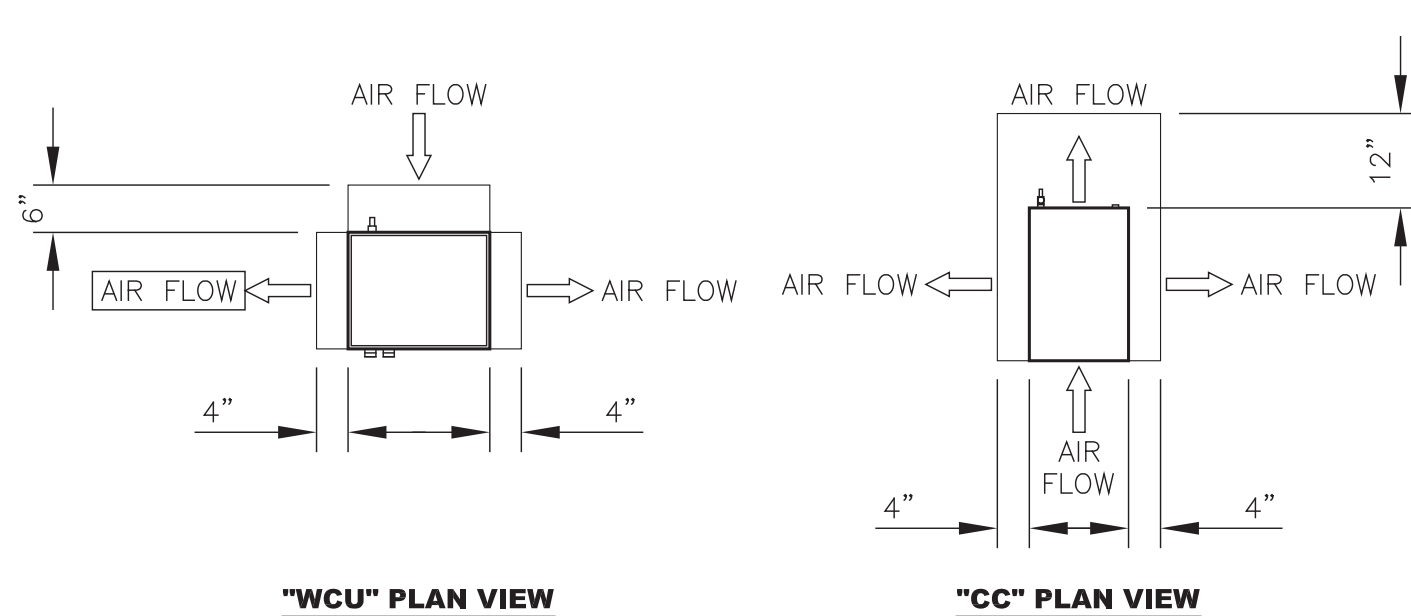
## 5 CABINET BACKING PLATE

**2 CAT-880B BASE**  
SCALE: 1" = 1'-0"

## COOLING UNIT NOTES

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

- A. THE WATER COOLING UNIT(S) AND COOLANT CIRCULATOR(S) ARE SELF CONTAINED UNITS TO BE FILLED AND MAINTAINED BY TOSHIBA. PLUMBING IS NOT REQUIRED.
- B. VENTILATION CLEARANCES AROUND WATER COOLING UNIT(S) AND COOLANT CIRCULATOR(S) MUST BE MAINTAINED.
- C. COOLANT CIRCULATOR(S) MUST NOT BE STACKED.
- D. HOSES TO THE WATER COOLING UNIT(S) AND COOLANT CIRCULATOR(S) CANNOT BE RUN IN AREAS WHERE THE TEMPERATURE DROPS BELOW 40°F. IF CONDUCITS ARE RUN BENEATH SLAB OR EARTH, ENSURE GROUND TEMPERATURE DOES NOT DROP BELOW 40°F.
- E. DUE TO HEAT GENERATED BY THE WATER COOLING UNIT(S) AND COOLING CIRCULATOR(S) ADDITIONAL VENTILATION RETURN/FAN(S) SHOULD BE LOCATED IN THE VICINITY.



## 6 WATER COOLING UNIT AND COOLANT CIRCULATOR CLEARANCE

## 4 CABINET FLOOR PLATES

SCALE:  $3/4" = 1'-0"$

**TOSHIBA**  
Leading Innovation >>>

[illegible]

## TYPICAL DRAWING

(HYBRID LAB - INFINIX VC-I)

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DATE: 06-16-14

SCALE: AS NOTED

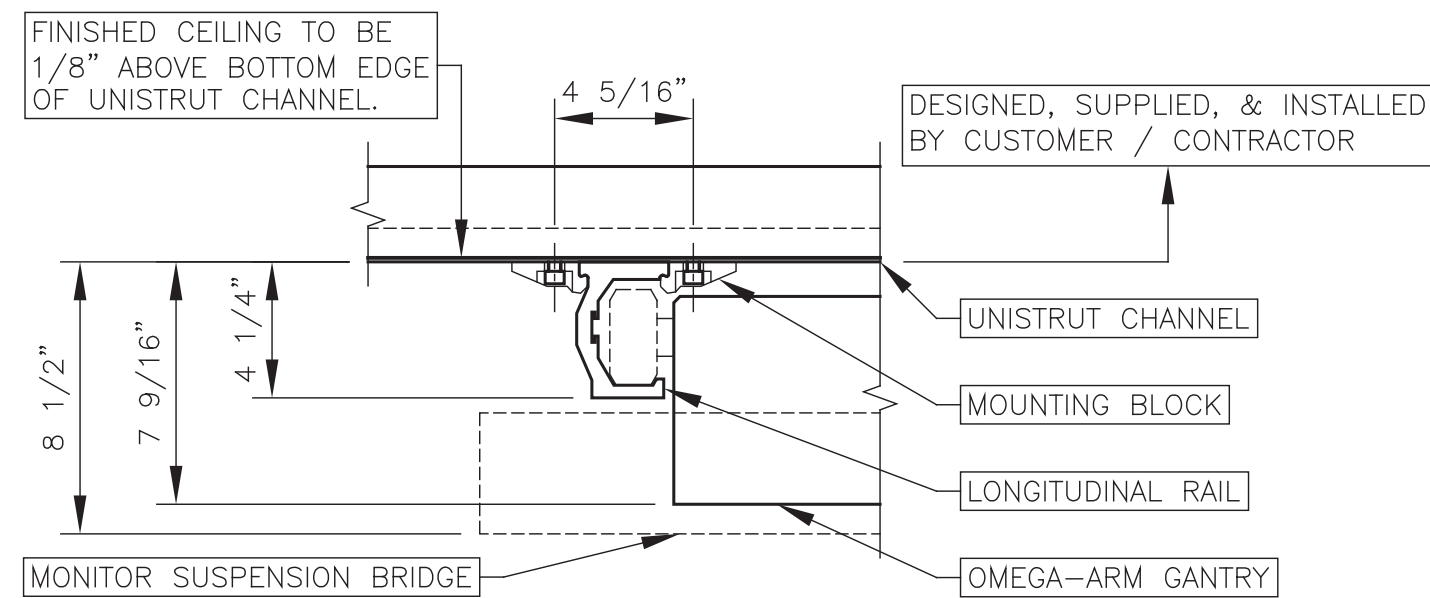
PLANNER: SITE PLANNING

PROJECT NO. **TYPICAL**

TS-S3

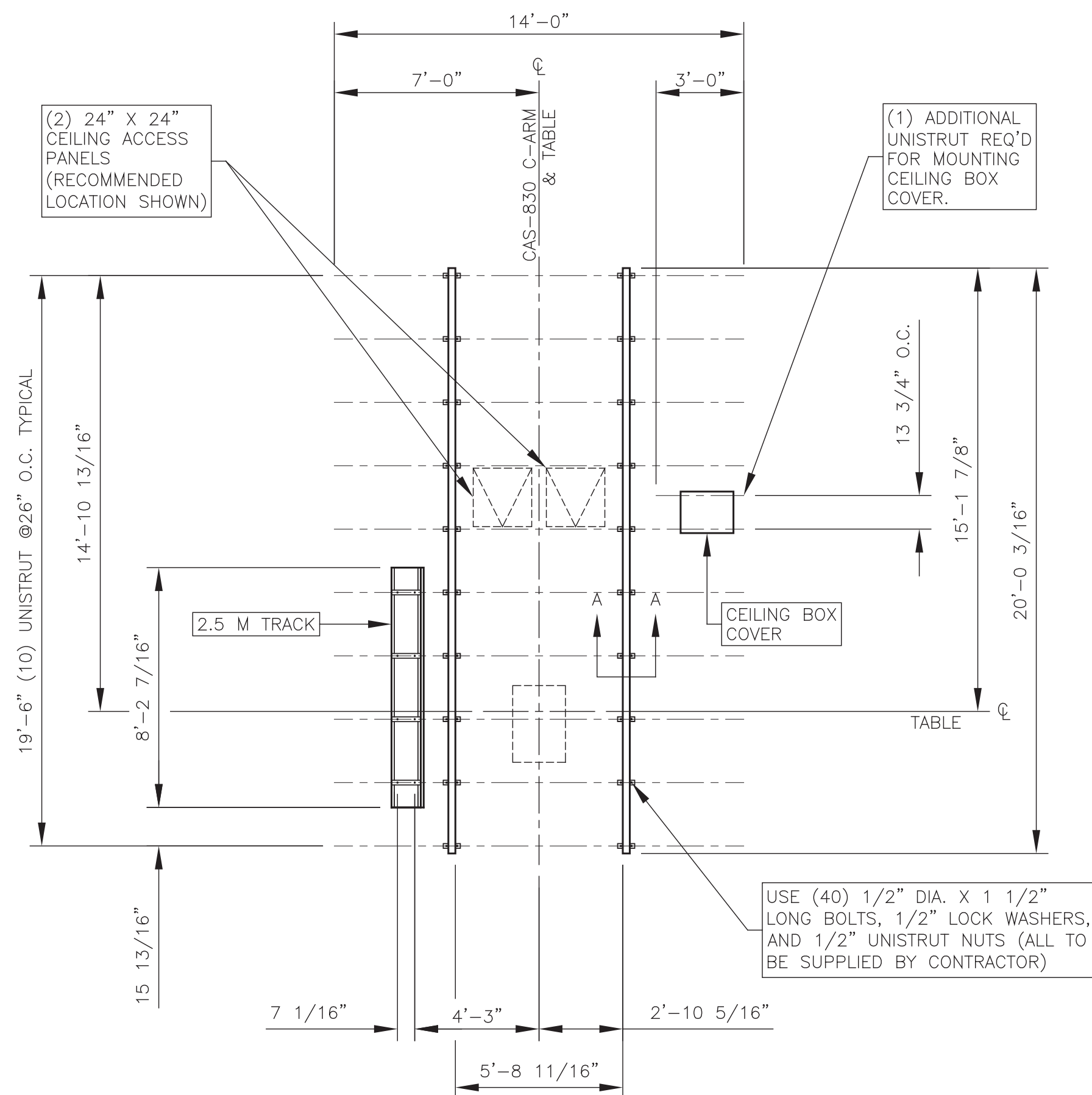
**FOR REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION PURPOSES.**





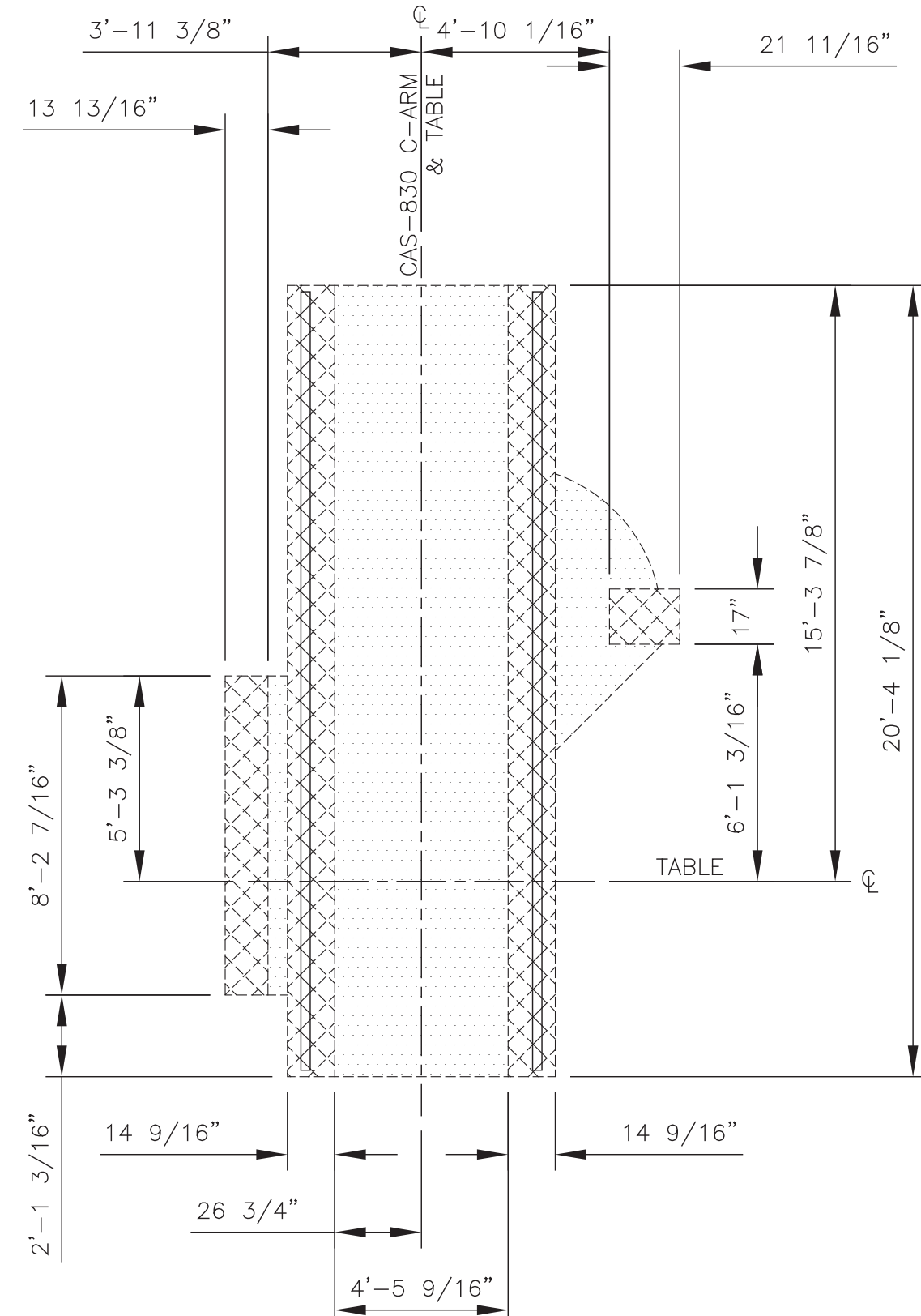
**SECTION A-A**  
SCALE: 2" = 1'-0"

CONSULT INSTALLATION PROJECT MANAGER  
IF INSTALLING SYSTEM IN A SEISMIC ZONE.



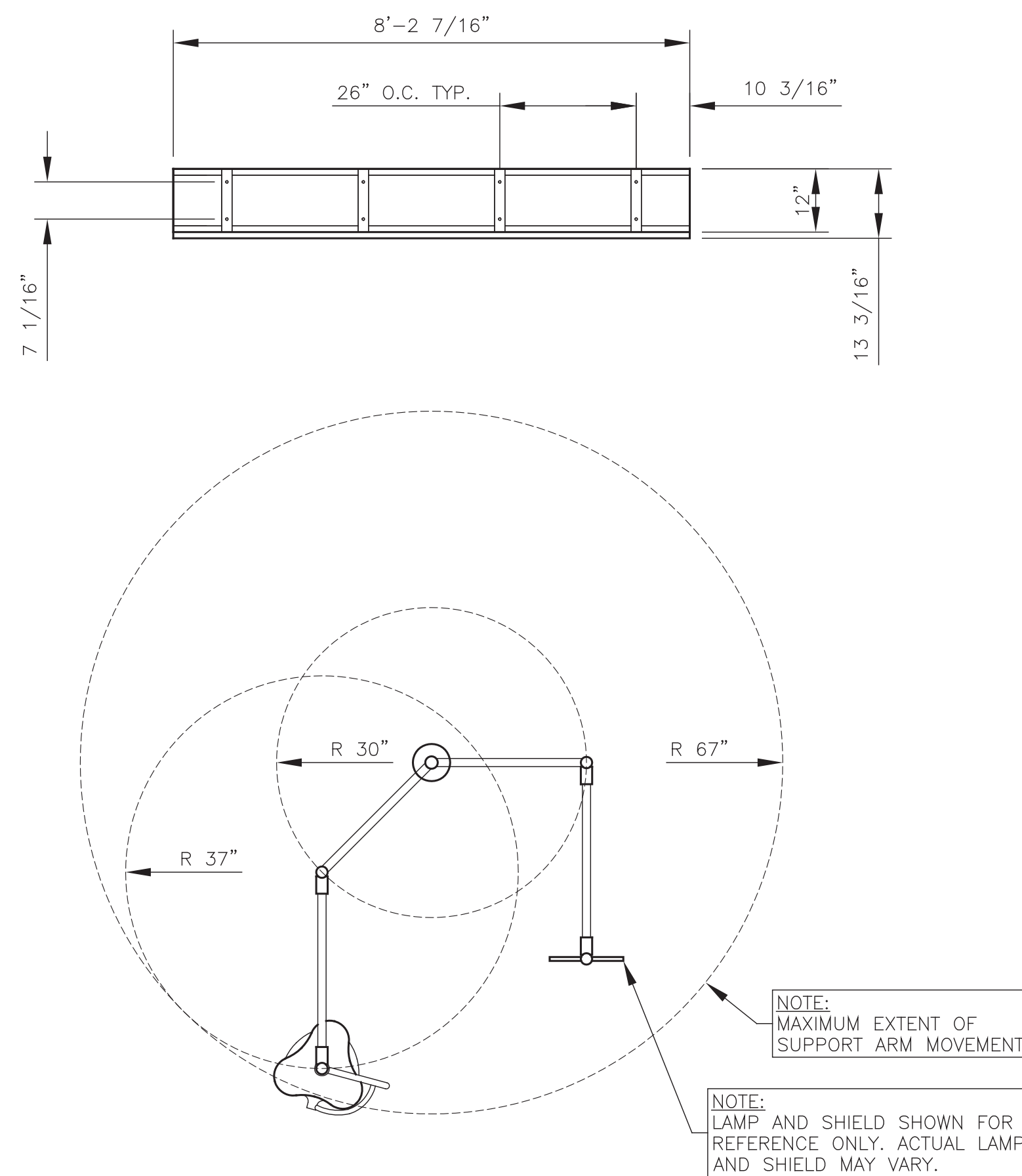
**1 CAS-830 CEILING STRUCTURAL DETAIL**  
SCALE: 1/4" = 1'-0"

04-11-13



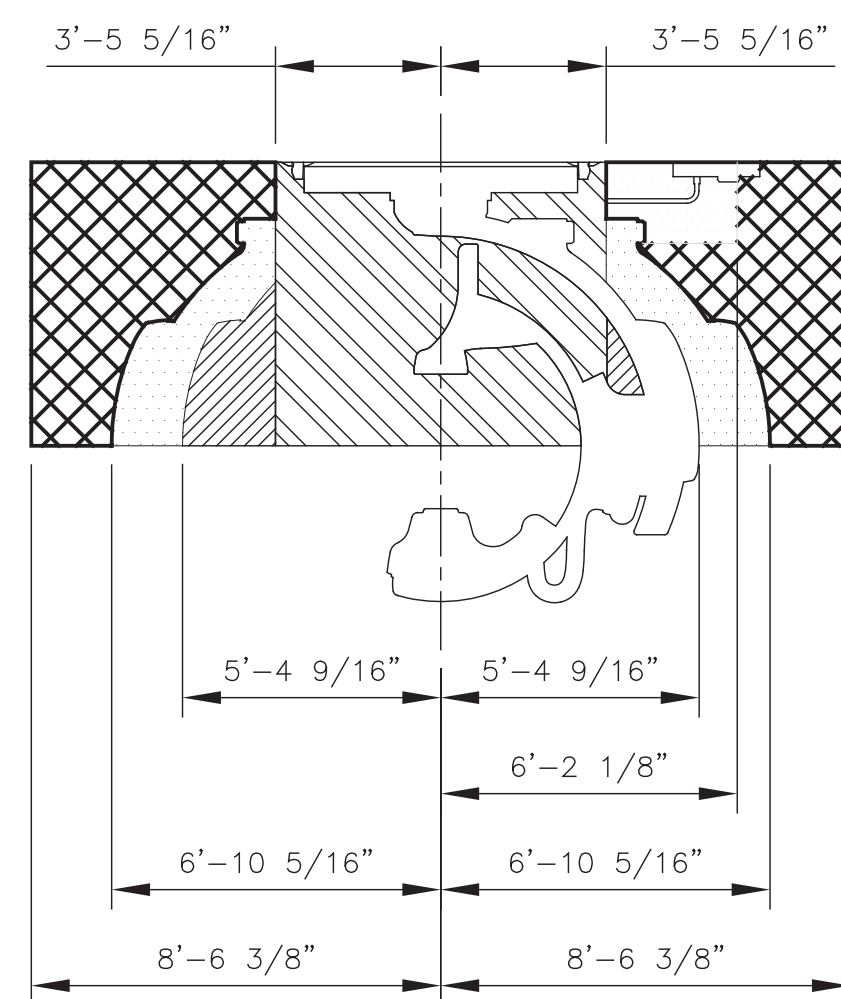
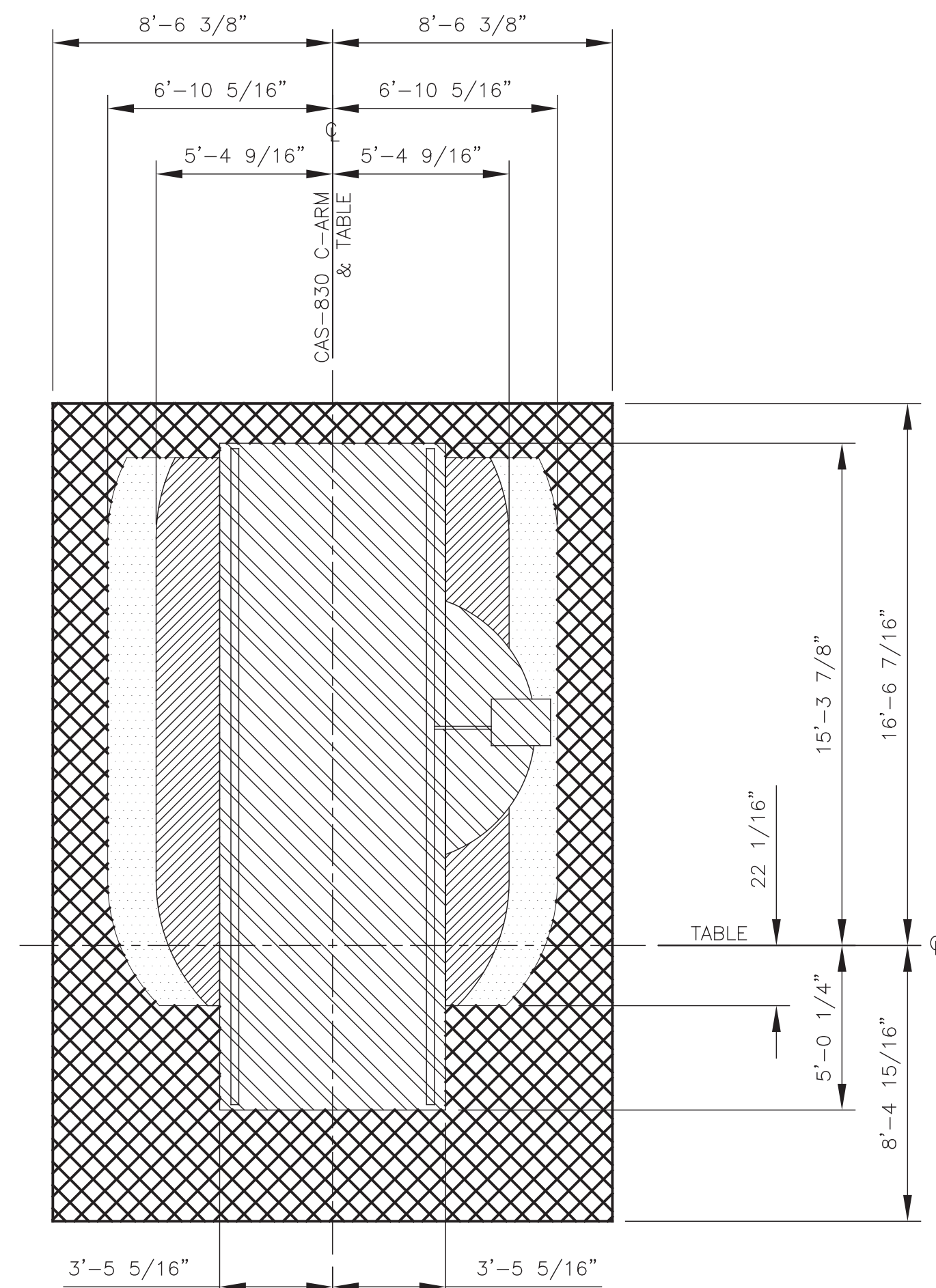
**2 CAS-830 CEILING CLEARZONE**  
SCALE: 1/4" = 1'-0"

04-11-13



**3 RAD SHIELD AND LAMP WITH 2.5 M TRACK**  
SCALE: 1/2" = 1'-0"

04-11-13



ANY FIXED (UNMOVABLE) 3RD PARTY EQUIPMENT MAY BE LOCATED WITHIN THIS ZONE AS LONG AS LOCAL SERVICE HAS REVIEWED EQUIPMENT. IF 3RD PARTY EQUIPMENT IS LOCATED WITHIN THIS AREA, CUSTOMER MUST ENSURE THAT THE MOVEMENT OF THE EQUIPMENT DOES NOT INTERFERE WITH THE TOSHIBA EQUIPMENT MOVEMENT OR FUNCTIONALITY. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR EQUIPMENT PLACED IN THIS AREA.

OFF LIMITS TO 3RD PARTY CEILING MOUNTED EQUIPMENT:  
TYPICAL MOVEMENT OF "C".  
LATERAL MOVEMENT OF "C".

ANY FIXED (UNMOVABLE) 3RD PARTY EQUIPMENT CANNOT BE LOCATED WITHIN ANY OF THESE ZONES. IF 3RD PARTY EQUIPMENT IS LOCATED WITHIN THESE AREAS, POSSIBLE COLLISION BETWEEN THE TOSHIBA EQUIPMENT AND THE EQUIPMENT MAY OCCUR. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR EQUIPMENT PLACED IN THESE AREAS.

**4 CAS-830 MOVEMENT CLEARZONE**  
SCALE: 1/4" = 1'-0"

04-11-13

**TOSHIBA**  
Leading Innovation >>>

REV	DATE	DESCRIPTION	INT

**TYPICAL DRAWING**

(HYBRID LAB - INFINIX VC-I)

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DATE: 06-16-14  
SCALE: AS NOTED  
PLANNER: SITE PLANNING

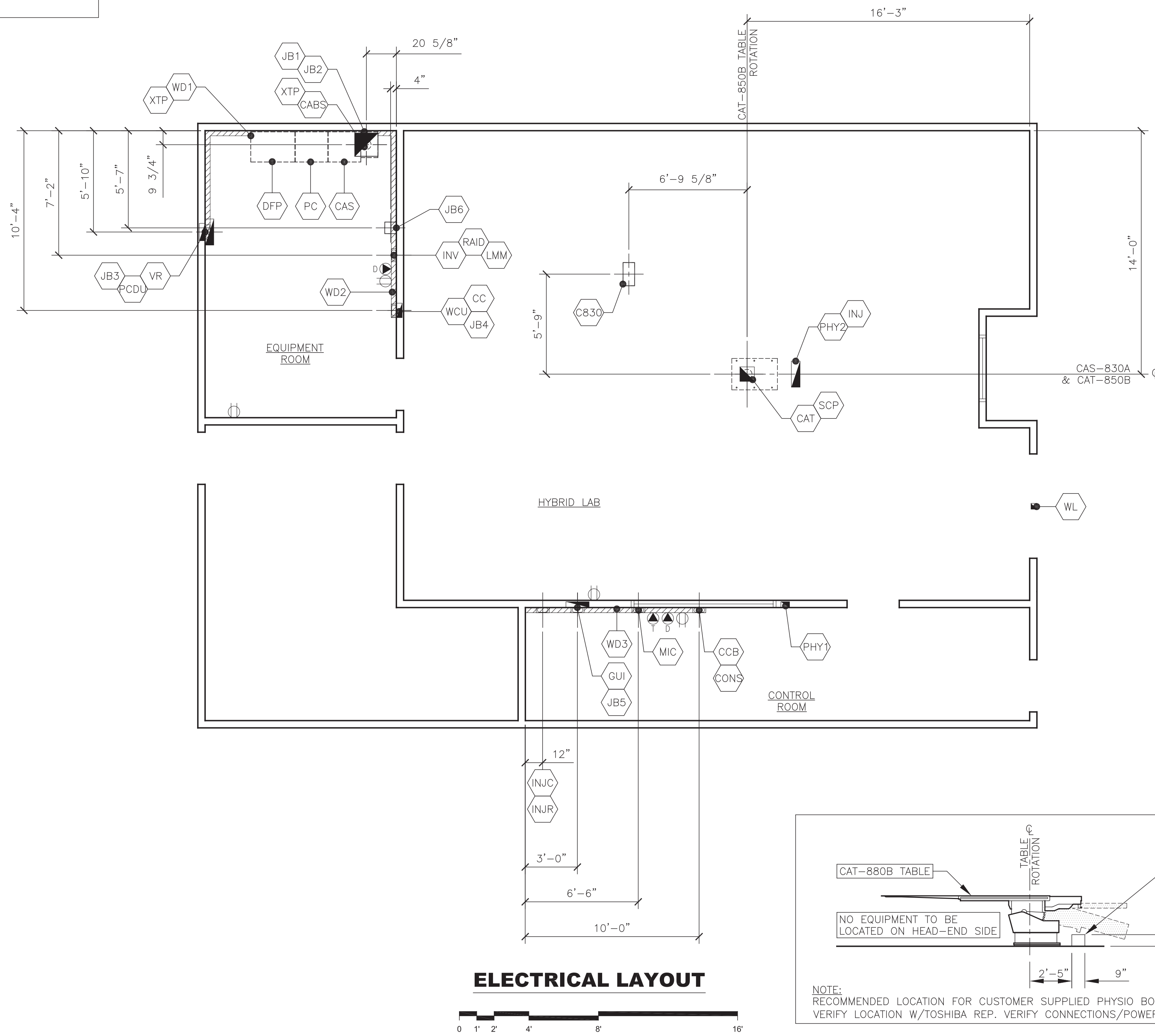
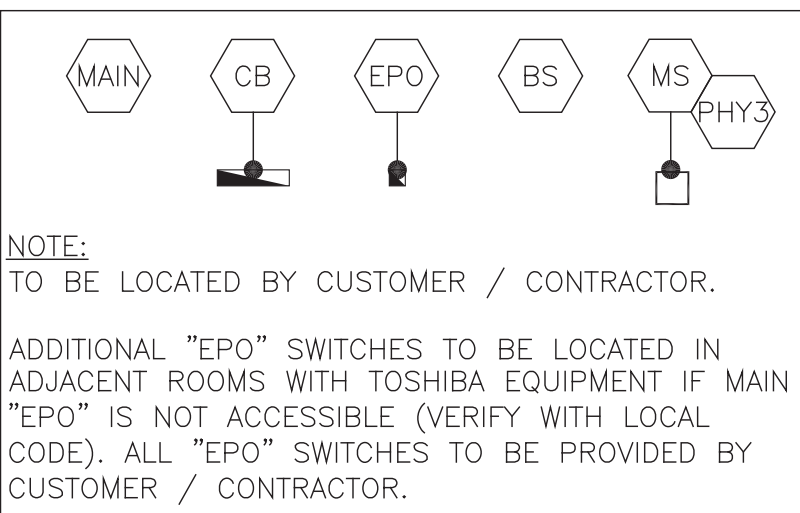
PROJECT NO.  
**TYPICAL**

TS-**S4**

04-11-13

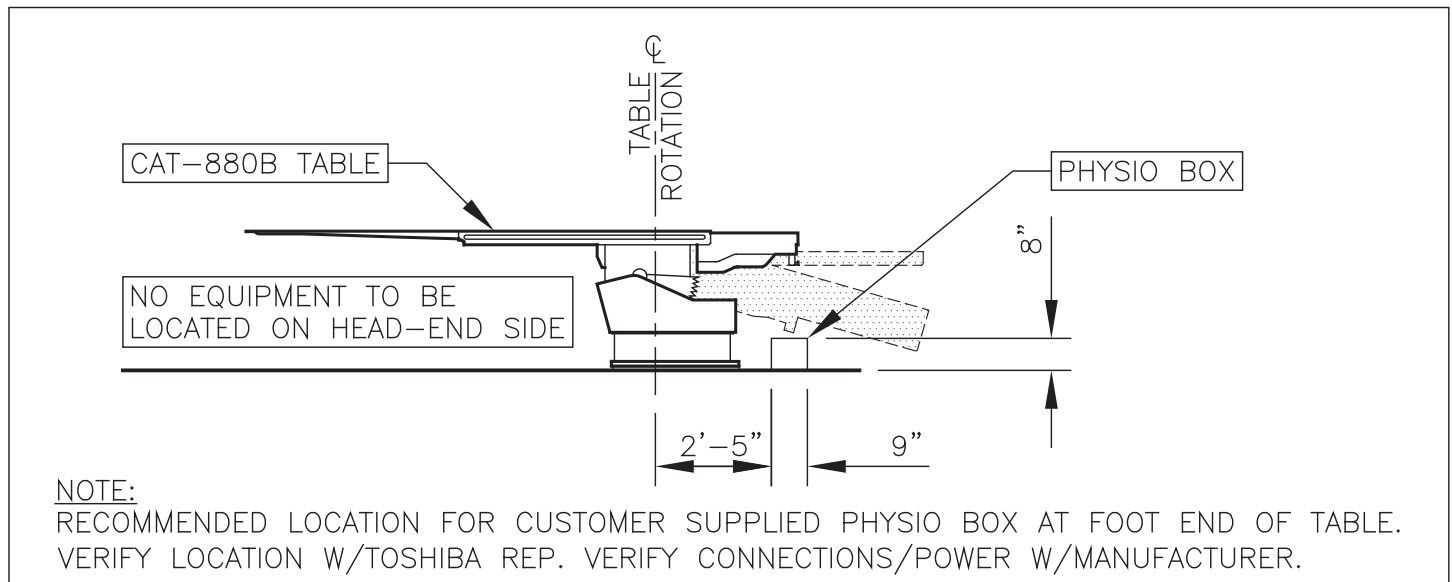
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NOTE:  
J-BOX SIZES MAY BE INCREASED AS NEEDED WITH EXCEPTION TO THE "PCDU" J-BOX.

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



XTP-8100G GENERATOR SYSTEM COMPONENTS SUPPLIED AND INSTALLED BY TOSHIBA			
CAB3	SIDE COVER CABINET	PC	POWER CABINET
CAS	CONTROL CABINET	DFP	DFP-8000B SYSTEM CABINET

ELECTRICAL DUCT LEGEND		
ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
WD1	18" W X 3 1/2" D FLUSH/SURFACE MOUNTED WALL DUCT, W/(3) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. MOUNTED AT FINISHED FLOOR.	3 E3
WD2	18" W X 3 1/2" D FLUSH/SURFACE MOUNTED WALL DUCT, W/(3) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. MOUNTED 6" A.F.F. TO BOTTOM OF DUCT.	3 E3
WD3	10" W X 3 1/2" D FLUSH/SURFACE MOUNTED WALL DUCT, W/(3) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. MOUNTED 12" A.F.F. TO BOTTOM OF DUCT.	3 E3
VR	10" W X 3 1/2" D SURFACE MOUNTED RISER DUCT, W/(3) EQUALLY PARTITIONED COMPARTMENTS THROUGHOUT & REMOVABLE ACCESS COVERS. FROM "PCDU" TO "WD1".	3 E3

ELECTRICAL LEGEND		
ITEM	ITEM DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER / CONTRACTOR	REF.
MAIN	MAIN SERVICE ENTRANCE PANEL	1 E3
CB	THREE PHASE CIRCUIT BREAKER PER TOSHIBA POWER SPECIFICATIONS (SEE DETAIL) CIRCUIT BREAKER LOCATION PER CODE REQUIREMENTS BY ELECTRICAL CONTRACTOR.	1&6 E3
PCDU	18" W X 12" H X 6" D J-BOX, SURFACE MOUNTED 29 1/2" A.F.F. TO BOTTOM OF BOX. OPEN TO "VR". SEE TOSHIBA'S POWER QUALITY REQUIREMENTS FOR THE GENERATOR.	5 E3
EPO	4" STD. J-BOX FOR REMOTE OFF SWITCH. LOCATED BY CUSTOMER/CONTRACTOR. DPDT, NORMALLY OPEN MUSHROOM HEAD PUSH BUTTON.	1 E3
WL	4" STD. J-BOX FOR "X-RAY ON" OR WARNING LIGHT MOUNTED ABOVE PATIENT ENTRY DOOR.	2 E3
BS	BUILDING STEEL.	1 E3
CB30	8" W X 16" L X 8" D J-BOX, FLUSH MOUNTED IN FINISHED CEILING.	1-3 E3
CAT	10" W X 10" L X 6" D J-BOX, MOUNTED UNDER FLOOR WITH 7" CORE DRILL THRU FLOOR.	4 E3
MS	10" W X 10" L X 6" D J-BOX, FLUSH MOUNTED IN FINISHED CEILING EXACT LOCATION TO BE COORDINATED WITH THE THIRD PARTY BOOM VENDOR.	4 E3
CCB	SHARED 8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD3".	3 E3
CONS	8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD3".	3 E3
GUI	SHARED 8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD2".	3 E3
WCU	8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD2".	3 E3
CC	8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD2".	3 E3
RAID	LOCATED ON SHELF.	3 E3
INV	GROMMETED OPENING AT END OF WALL DUCT, "WD1" AND "WD2". OPEN TO XTP-8100G GENERATOR CABINETS.	4 E3
XTP	6" W X 6" H X 4" D J-BOX, FLUSH MOUNTED IN FINISHED WALL. FOR CUSTOMER SUPPLIED PHYSIO EQUIPMENT IN CONTROL ROOM. VERIFY CONNECTIONS/POWER W/MANUFACTURER.	4 E3
PHY1	18" W X 6" H X 4" D J-BOX, FLUSH MOUNTED IN FINISHED FLOOR. FOR CUSTOMER SUPPLIED PHYSIO EQUIPMENT AT TABLE. VERIFY CONNECTIONS/POWER W/MANUFACTURER.	4 E3
PHY2	CUSTOMER SUPPLIED PHYSIO MONITOR ON MONITOR SUSPENSION. VERIFY CONNECTIONS/POWER W/MANUFACTURER.	4 E3
PHY3	16" W X 16" L X 8" D J-BOX, FLUSH MOUNTED IN FINISHED CEILING. CONNECTED TO "CABS" XTP-8100G END CABINET VIA 6" CONDUIT OR FLEX HOSE.	4 E3
JB1	12" W X 12" H X 4" D J-BOX, FLUSH MOUNTED IN FINISHED WALL, MOUNTED 29 1/2" A.F.F. TO BOTTOM OF BOX. OPEN TO "PCDU".	6 E3
JB2	10" W X 10" H X 4" D J-BOX, FLUSH MOUNTED IN FINISHED WALL, MOUNTED 24" A.F.F. TO BOTTOM OF BOX.	3 E3
JB3	16" W X 16" H X 4" D J-BOX, FLUSH MOUNTED IN FINISHED WALL, MOUNTED 11" A.F.F. TO BOTTOM OF BOX. OPEN TO "WD3".	3 E3
JB4	8" W X 3" H GROMMETED OPENING IN WALL DUCT "WD2".	4 E3
JB5	8" W X 8" L X 4" D J-BOX, FLUSH MOUNT IN FINISHED CEILING. FOR CUSTOMER SUPPLIED VIDEO SIGNALS TO 56" MONITOR.	4 E3
LMN	CONNECTS TO "PHY2".	3 E3
JB6	CONNECTS TO "CAT".	3 E3
INJ	SHARED 8" W X 3" H GROMMETED OPENING IN "WD3".	3 E3
SCF	8" W X 3" H GROMMETED OPENING IN "WD3".	3 E3
INJC	110V ELECTRICAL OUTLETS FOR SYSTEM EQUIPMENT AND/OR SERVICE EQUIPMENT. OUTLETS TO BE LOCATED IN EACH ROOM WHERE SYSTEM EQUIPMENT IS LOCATED.	3 E3
INJR	RJ45 CONNECTOR, CAT5 CABLE TO BE USED FOR DATA CONNECTION FOR NETWORKING.	3 E3
MIC	DEDICATED PHONE LINE SUPPLIED/INSTALLED BY CUSTOMER/CONTRACTOR.	3 E3

**TOSHIBA**  
Leading Innovation >>>

NT

DESCRIPTION

DATE

REV

TYPICAL  
DRAWING

(HYBRID LAB – INFINIX VC-I)

DATE: 06-16-14

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

PLANNER: SITE PLANNING

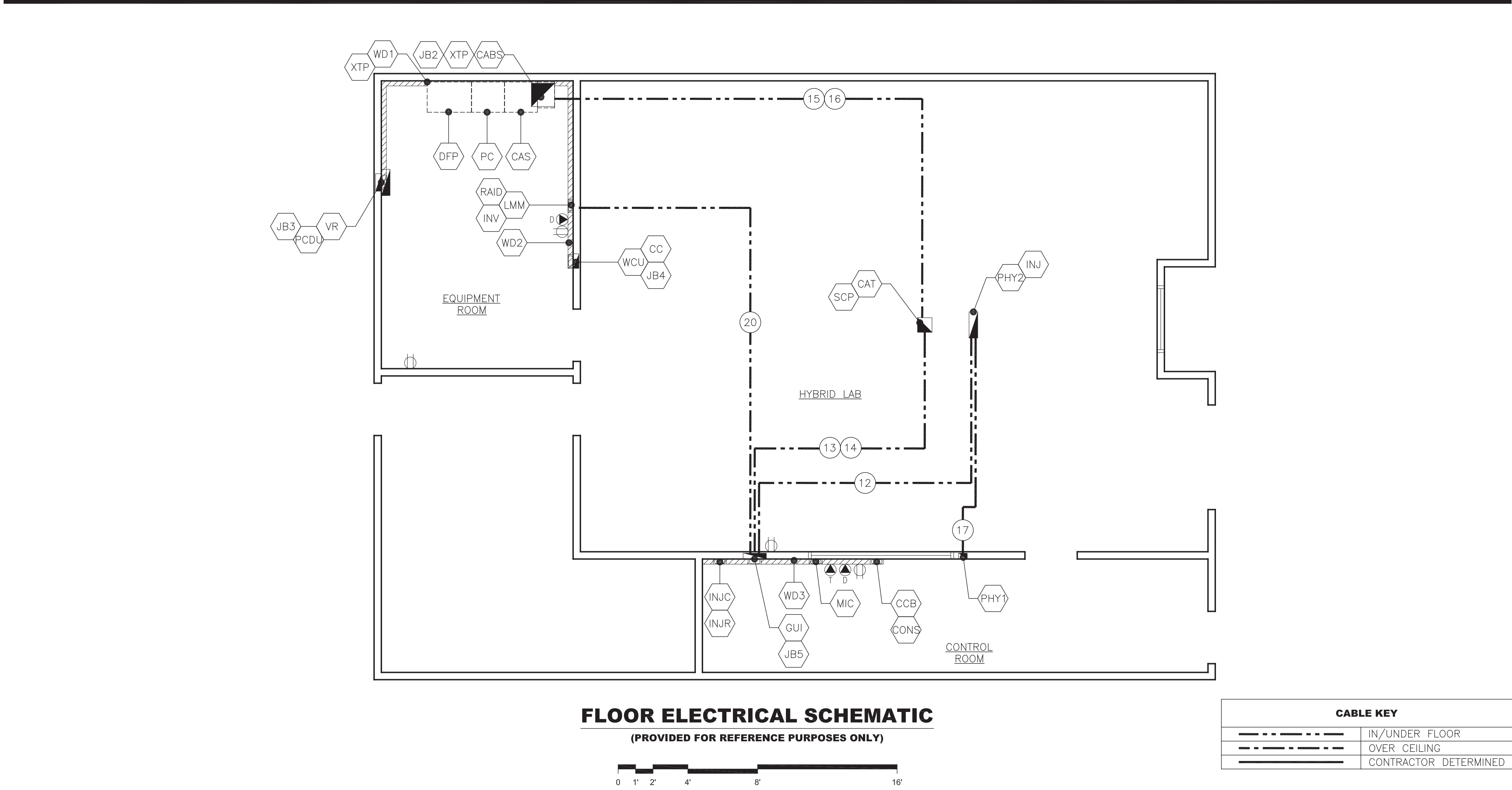
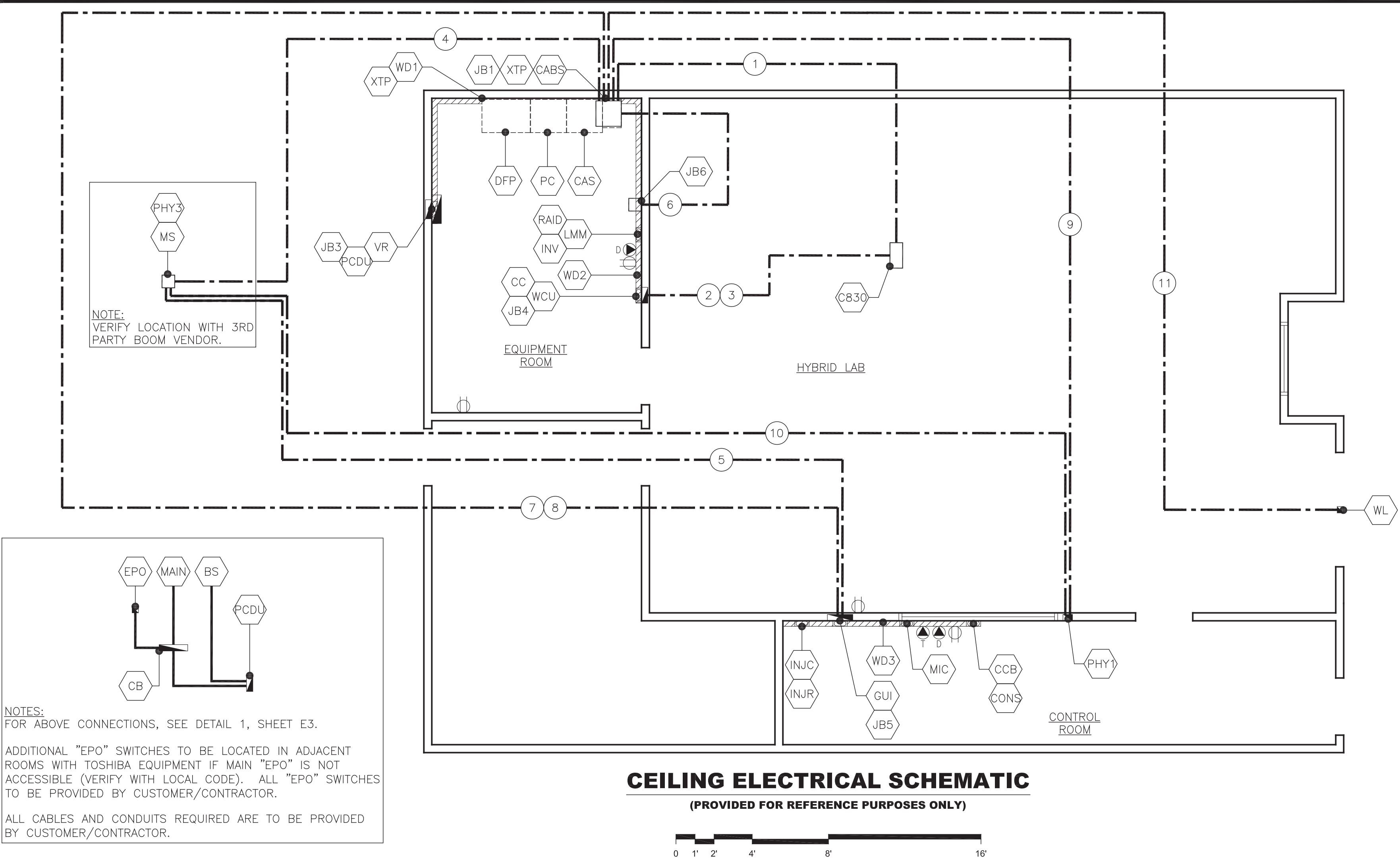
PROJECT NO.  
**TYPICAL**

**TS-E1**

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CONTRACTOR CONDUIT REFERENCE				CABLE REFERENCE		
RUN NO.	CONDUIT (POINT TO POINT)	CONDUIT (DIAMETER)	CONDUIT (MAX LENGTH)	CABLE (POINT TO POINT)	CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY)
1	C830 JB1	(2) 4" COMBINED	38'-0"	C830 PC	SEE RUN "A" DETAIL (1/E4)	TOSHIBA
				C830 CAS	SEE RUN "B" DETAIL (1/E4)	TOSHIBA
				C830 DFP	SEE RUN "C" DETAIL (1/E4)	TOSHIBA
2	C830 JB4	2 1/2"	65'-0"	C830 WCU	SEE RUN "D" DETAIL (1/E4)	TOSHIBA
3	C830 JB4	2 1/2"	65'-0"	C830 CC	SEE RUN "E" DETAIL (1/E4)	TOSHIBA
4	MS JB1	(3) 2"	70'-0"	MS DFP	SEE RUN "F" DETAIL (1/E4)	TOSHIBA
5	MS JB5	2"	85'-0"	MS MIC	SEE RUN "Y" DETAIL (1/E4)	TOSHIBA
6	JB6 JB1	2"	PER MANUFACTURER	JB6 DFP	PER MANUFACTURER	CONTRACTOR
7	JB5 JB1	2 1/2"	78'-0"	CCB CAS	SEE RUN "J" DETAIL (1/E4)	TOSHIBA
8	JB5 JB1	(3) 2 1/2"	68'-0"	CCB DFP	SEE RUN "K" DETAIL (1/E4)	TOSHIBA
9	PHY1 JB1	PER MANUFACTURER	PER MANUFACTURER	PHY1 DFP	PER MANUFACTURER	CONTRACTOR
10	PHY1 MS	PER MANUFACTURER	PER MANUFACTURER	PHY1 PHY3	PER MANUFACTURER	CONTRACTOR
11	WL JB1	PER MANUFACTURER	PER MANUFACTURER	WL DFP	PER MANUFACTURER	CONTRACTOR

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.
- D. CONSULT WITH TOSHIBA INSTALLATION PROJECT MANAGER IF CONDUIT WILL BE REQUIRED TO BE RUN IN SUCH A MANNER THAT WILL EXCEED MAXIMUM CONDUIT LENGTH SHOWN ABOVE.
- E. CONDUITS SHOWN FOR "PHYSIO" ARE OPTIONAL AND MAY NOT BE REQUIRED FOR ALL SITES. VERIFY WITH TOSHIBA INSTALLATION PROJECT MANAGER.
- F. CONDUITS BETWEEN C-ARMS AND COOLING UNITS (CONDUITS 2 & 3) CANNOT BE RUN IN AREAS WHERE THE TEMPERATURE DROPS BELOW 40°F. IF CONDUITS ARE RUN BENEATH SLAB OR IN EARTH, ENSURE GROUND TEMPERATURE DOES NOT DROP BELOW 40°F.
- G. CONDUITS MARKED WITH AN "\*" REQUIRE EXTENDED CABLES (SEE DETAIL 1, SHEET E4).

\* FINAL LENGTH OF CONDUIT TO BE DETERMINED IN FIELD BY I.P.M.

CONTRACTOR CONDUIT REFERENCE				CABLE REFERENCE		
RUN NO.	CONDUIT (POINT TO POINT)	CONDUIT (DIAMETER)	CONDUIT (MAX LENGTH)	CABLE (POINT TO POINT)	CABLE LENGTH (USABLE)	CABLES (SUPPLIED BY)
12	PHY2 JB6	3"	32'-2"	INJ INJR	PER MANUFACTURER	CONTRACTOR
13	CAT JB5	2" COMBINED	32'-2"	CAT CCB	SEE RUN "G" DETAIL (1/E4)	TOSHIBA
14	CAT JB5	2 1/2"	45'-0"	CAT CCB	SEE RUN "G" DETAIL (1/E4)	TOSHIBA
15	CAT JB2	2" & 2 1/2"	52'-0"	CAT DFP	SEE RUN "H" DETAIL (1/E4)	TOSHIBA
16	CAT JB2	2 1/2"	48'-0"	CAT CAS	SEE RUN "I" DETAIL (1/E4)	TOSHIBA
17	PHY1 PHY2	PER MANUFACTURER	PER MANUFACTURER	PHY1 PHY2	PER MANUFACTURER	CONTRACTOR

TOSHIBA  
Leading Innovation >>>

INT

REV

DATE

DESCRIPTION

TYPICAL DRAWING

(HYBRID LAB – INFNIX VC-I)

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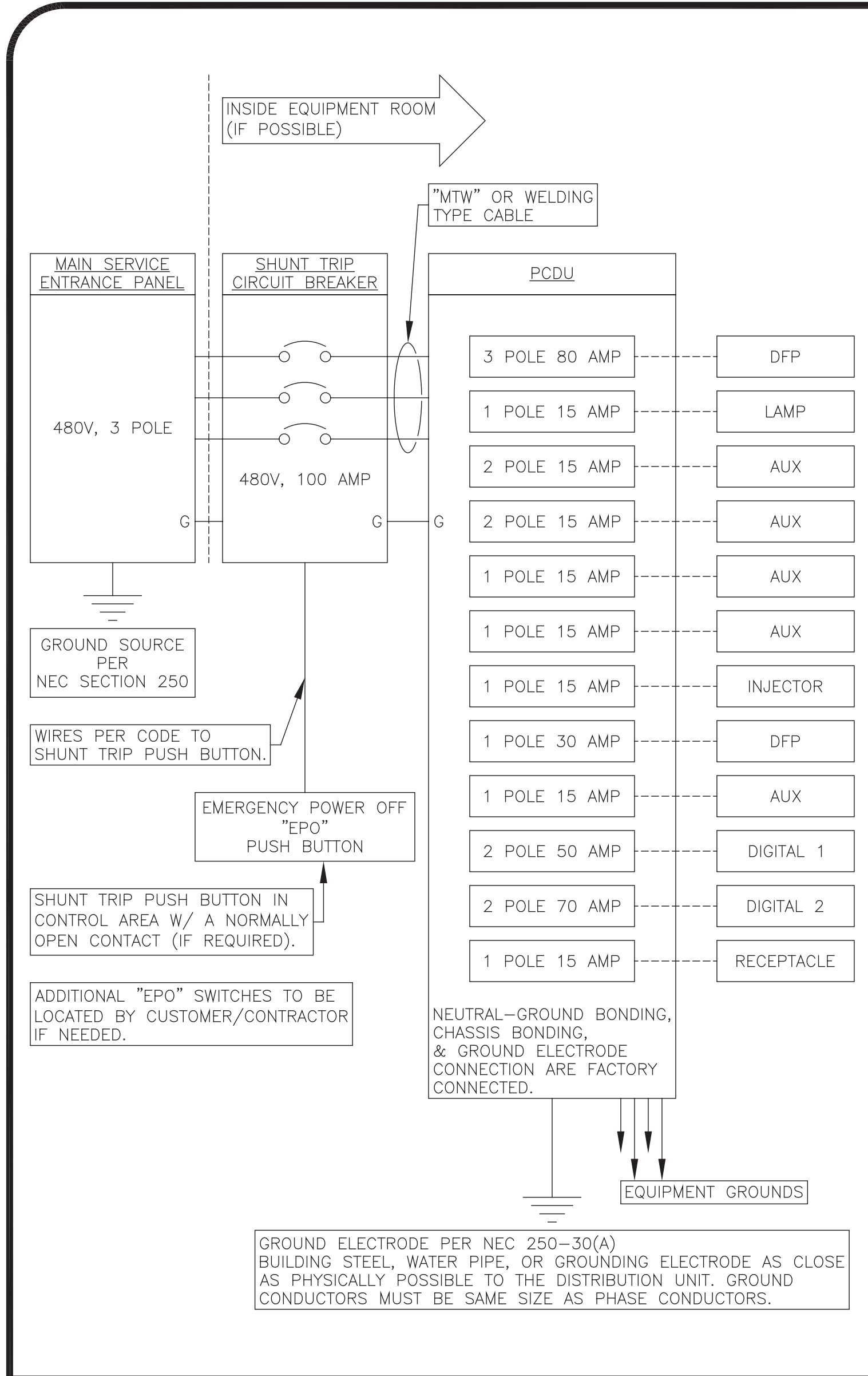
PLANNER: SITE PLANNING

PROJECT NO. TYPICAL

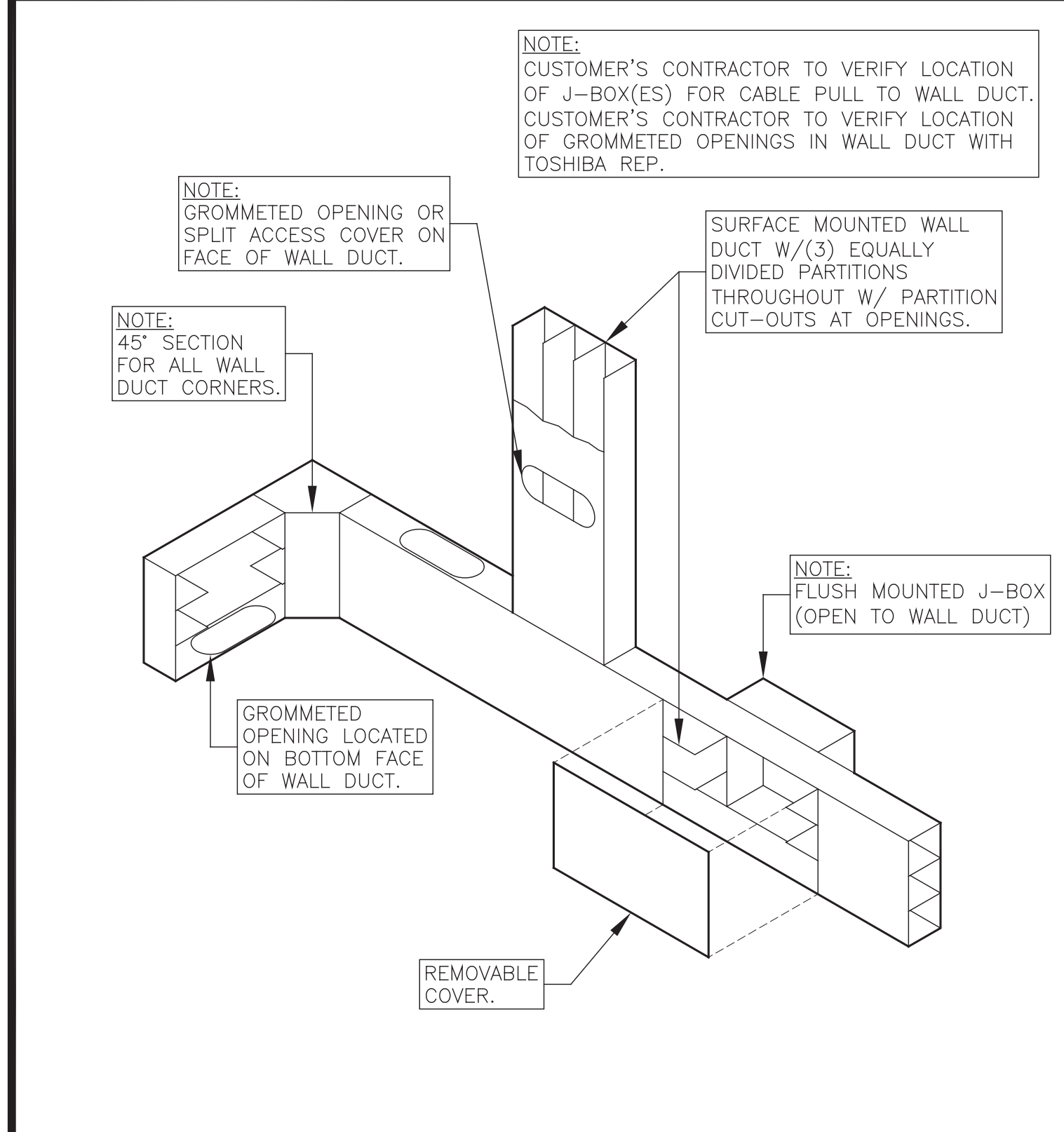
TS-E2

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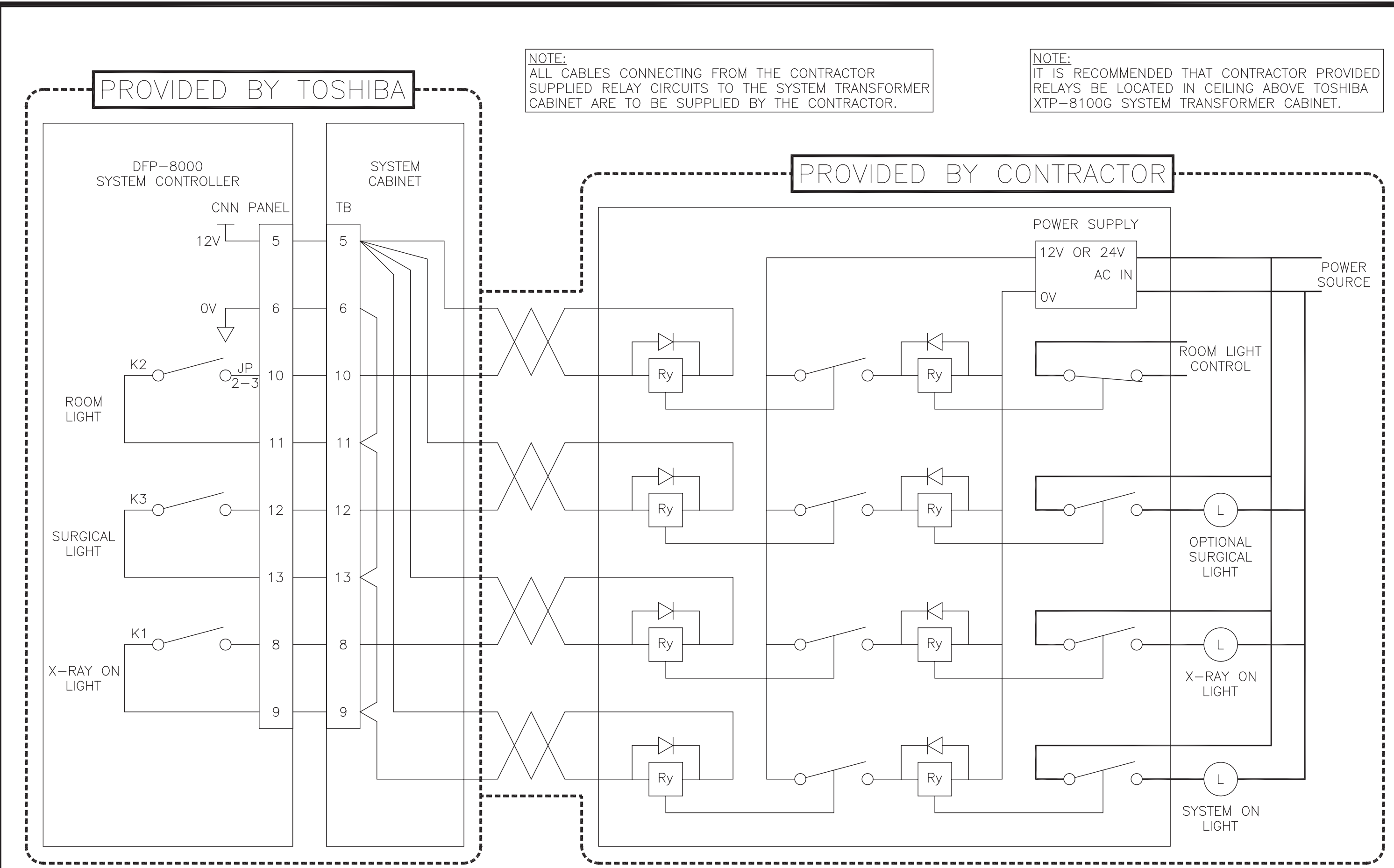




**1 CB / PCDU-100VL WIRING DETAIL**  
SCALE: NOT TO SCALE 05-22-14

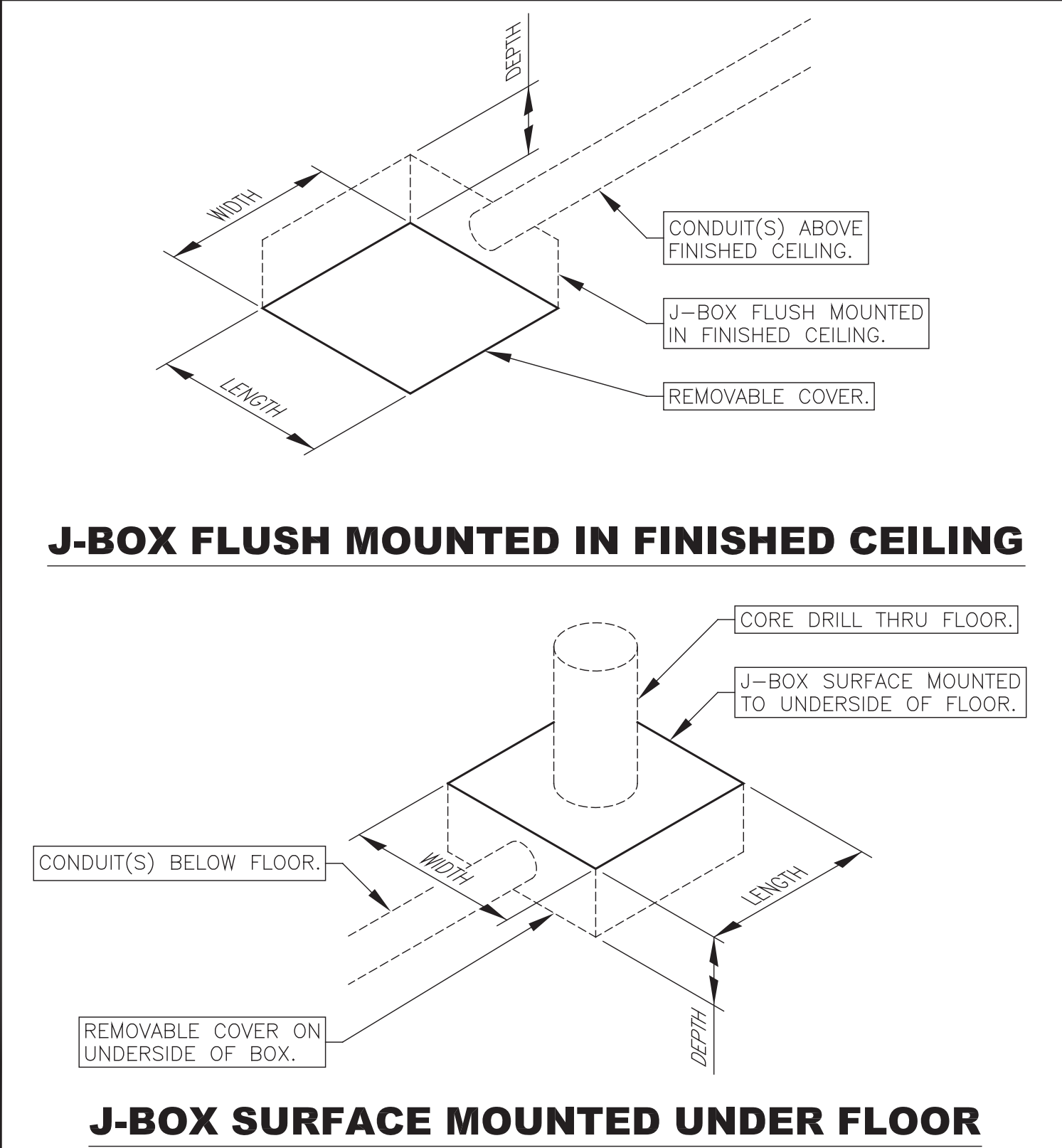


**3 TYPICAL DUCT DETAIL WITH WALL DUCT / J-BOX / VERTICAL RISER**  
SCALE: NOT TO SCALE 06-01-12

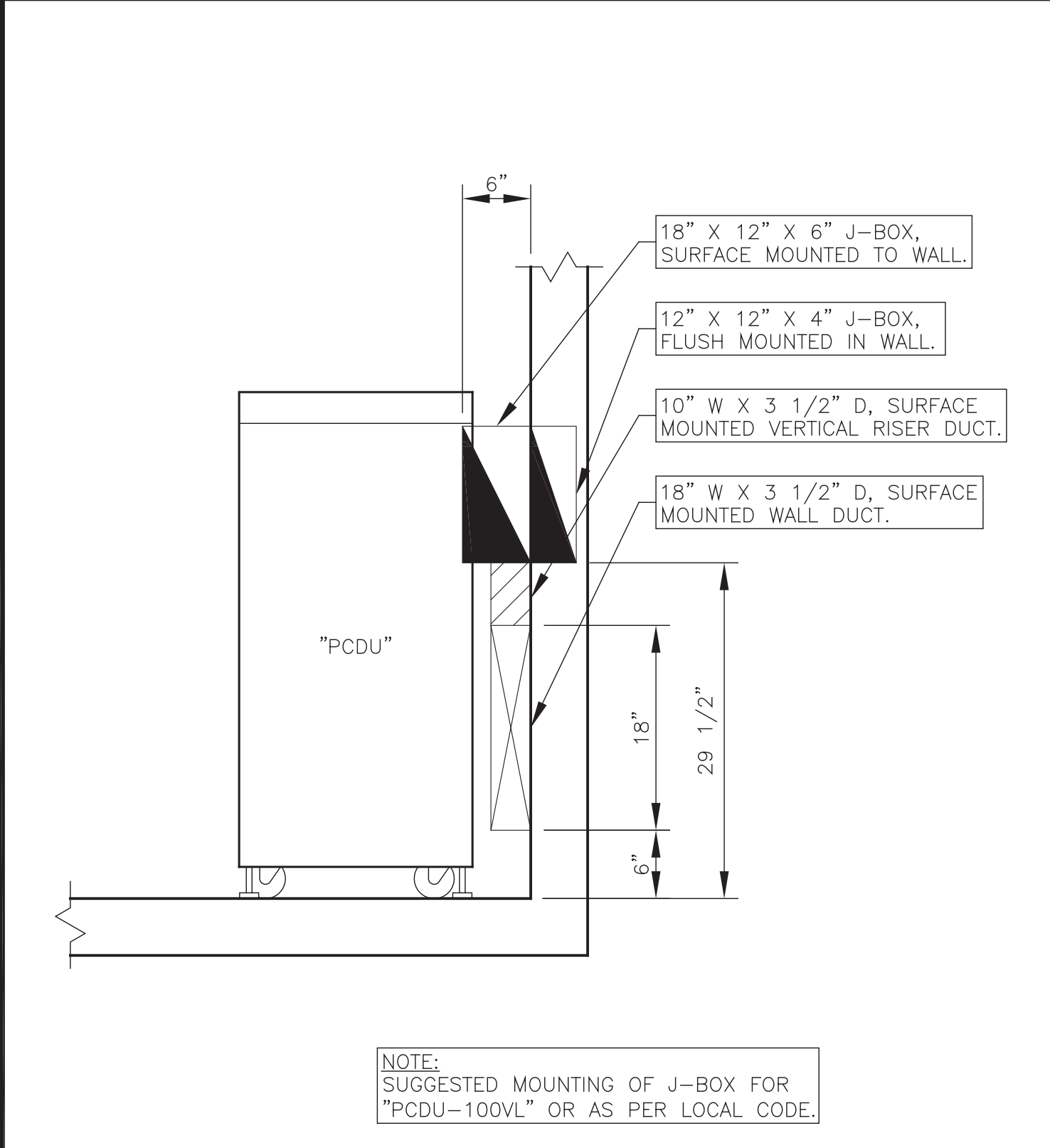


CONNECTING THE RELAY TO THE DFP-8000:  
A. IN THE CIRCUIT DIAGRAM ABOVE, THE EXTERNALLY CONNECTED 12V RELAY IS DRIVEN VIA THE RELAY CONTACT OF THE DFP-8000 AND THE 12V RELAY CONTROLS THE SWITCH CONNECTED TO THE POWER CIRCUIT.  
B. BE SURE TO INSTALL DIODES TO THE RELAY COILS FOR ABSORBING SURGES. IF A SURGE CAUSED BY A COUNTER-ELECTROMOTIVE FORCE OCCURS, AN ERROR MAY OCCUR IN THE DFP-8000. USE A DIODE WITH A RATING OF 1000V AND 1A FOR ABSORBING SURGES AND USE A DIODE WITH A RATING OF 2000V BETWEEN THE COIL AND THE CONTACT.  
C. ISOLATE THE RELAY COIL AND THE CONTACT CABLE, THIS MAY REDUCE THE IMPACT FROM EXTERNAL NOISE AND ENSURE ELECTRICAL ISOLATION. IN ADDITION, CONNECT TWISTED-PAIR CABLES TO THE CONTACT AND THE COIL. THIS MAY ALSO REDUCE THE OCCURRENCE AND IMPACT OF NOISE.  
D. FOR THE CONTROL CIRCUIT OF THE ROOM LIGHT OPEN/CLOSE SWITCH, USE THE POWER SUPPLY ISOLATED FROM THE ROOM LIGHT CABLE. IF THE ROOM LIGHT CIRCUIT IS DIRECTLY CONNECTED TO THE RELAY CONTACT CONNECTED TO THE DFP-8000, NOISE MAY EASILY ENTER DEPENDING ON THE ROUTING. TO PREVENT SPARKS FROM OCCURRING AT THE RELAY CONTACT, INSTALL APPROPRIATE SNUBBER CIRCUITS TO THE SWITCH COIL.

**2 ELECTRICAL LIGHTING CONNECTIONS DIAGRAM**  
SCALE: NOT TO SCALE 05-22-14



**4 TYPICAL J-BOX DETAILS**  
SCALE: NOT TO SCALE 06-01-12



**5 TYPICAL PCDU J-BOX MOUNTING**  
SCALE: 1" = 1'-0" 06-01-12

### POWER QUALITY REQUIREMENTS INFINIX WITH PCDU-100VL

SUPPLY CONFIGURATION:		DELTA OR WYE	
KVA RATING:		150.00	
VOLTAGE (SEE NOTE B):		480V, 60Hz	
CALCULATED CURRENT (AMP):		180.42	
CIRCUIT BREAKER (AMP) (SEE NOTE F):		100	
% IMPEDANCE:		5.00	
LINE RESIST. SPEC.:		0.000	
MAXIMUM CURRENT (AMPS):		180.42	
VOLTAGE DROP (VOLTS):		24.00	
LINE RESIST. (OHMS):		0.133	
LINE DROP (PERCENT):		1.50	
LINE DROP (VOLTS):		7.20	
CONDUCTOR (OHMS):		0.040	
TEMPERATURE:		68°F (20°C)	

CONDUCTOR SIZES (SEE NOTE E)	OHMS PER 1000 FT.	TEMP DERATED	NEC 75 °C	LENGTH (FT.)
3 AWG	0.2540	0.2089	100	96
2 AWG	0.2010	0.1653	115	121
1 AWG	0.1600	0.1316	130	152
1/0 AWG	0.1270	0.1044	150	191
2/0 AWG	0.1010	0.0831	175	240

PCDU MAX INPUT LUG SIZE 2/0 AWG

### STANDARD POWER QUALITY NOTES

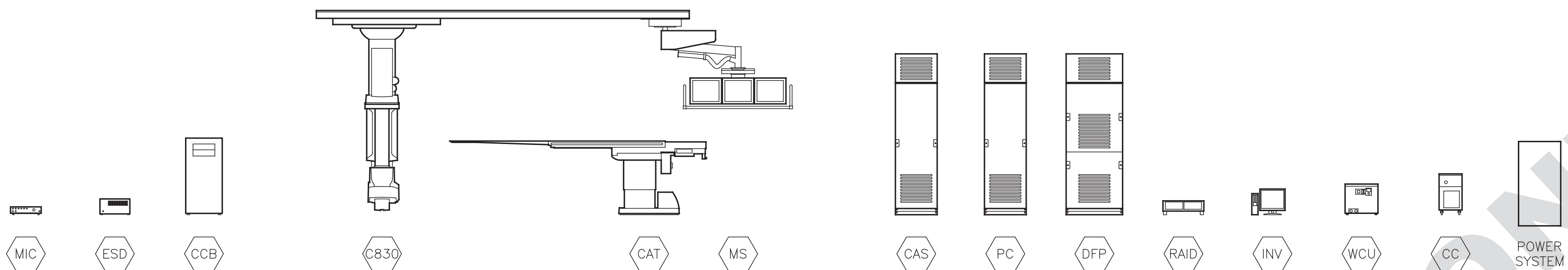
A. A GROUNDED NEUTRAL POWER SOURCE IS REQUIRED TO ASSURE RELIABLE EQUIPMENT OPERATION. THE NEUTRAL CONDUCTOR MAY NOT BE USED FOR A PARTICULAR SYSTEM.  
B. IN CASES WHERE MULTIPLE VOLTAGES ARE PERMITTED, THE PREFERRED SYSTEM VOLTAGE IS SPECIFIED.  
C. DUE TO THE HIGH INSTANTANEOUS POWER OF MEDICAL IMAGING SYSTEMS, USE THE HIGHEST AVAILABLE VOLTAGE SOURCE. ENSURE THAT LOWER VOLTAGE SOURCES ARE DERIVED DIRECTLY FROM THE SERVICE ENTRANCE OF THE FACILITY.  
D. GROUND CONDUCTORS ARE REQUIRED TO BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS A LARGER SIZE IS REQUIRED BY CODE.  
E. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS MUST BE COPPER - ALUMINUM IS NOT PERMITTED.  
F. 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.  
G. 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.  
H. 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.  
I. 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.

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: 06-16-14  
SCALE: NOT TO SCALE  
PLANNER: SITE PLANNING  
PROJECT NO. TYPICAL

**TS-E3**





NOTE:  
A. THE FOLLOWING CABLE DIAGRAM IS FOR REFERENCE ONLY AND MAY NOT CONTAIN THE EXACT EQUIPMENT 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. THIRD PARTY ITEM CONNECTIONS TO BE VERIFIED WITH INSTALLATION PROJECT MANAGER.  
D. POWER AND SIGNAL CABLES MUST BE RUN IN SEPARATE CONDUIT. REFER TO SHEET E2.

RUN LTR.	CONNECTION (POINT TO POINT)		REMARKS
A	C830	PC	EXTENDED CABLES NOT AVAILABLE (HIGH VOLTAGE CABLES)
B	C830	CAS	EXTENDED CABLES ARE NOT AVAILABLE
C	C830	DFP	EXTENDED CABLES ARE NOT AVAILABLE
D	C830	WCU	EXTENDED HOSES NOT AVAILABLE (COOLING HOSES)
E	C830	CC	EXTENDED HOSES NOT AVAILABLE (COOLING HOSES)
F	MS	DFP	EXTENDED CABLES ARE NOT AVAILABLE
G	CCB	CAT	101'-8" MAX. SYSTEM CABLE 38'-2" MAX. IVUS
H	CAT	DFP	THIS CABLE GROUP CAN BE EXTENDED TO 75'-5" MAX.
I	CAT	CAS	THIS CABLE GROUP CAN BE EXTENDED TO 72'-2" MAX.
J	CCB	CAS	THIS CABLE GROUP CAN BE EXTENDED TO 101'-8" MAX.
K	CCB	DFP	EXTENDED CABLES ARE NOT AVAILABLE
L	DFP	POWER SYSTEM	THIS CABLE GROUP CAN BE EXTENDED TO 55'-9" MAX.
M	DFP	WCU	EXTENDED CABLES ARE NOT AVAILABLE
N	DFP	CC	EXTENDED CABLES ARE NOT AVAILABLE
O	DFP	INV	EXTENDED CABLES ARE NOT AVAILABLE
P	ESD	DFP	EXTENDED CABLES ARE NOT AVAILABLE
Q	MIC	MS	EXTENDED CABLES ARE NOT AVAILABLE
R	DFP	RAID	THIS CABLE GROUP CAN BE EXTENDED TO 91'-10" MAX.

REV	DATE	DESCRIPTION	INT

TYPICAL  
DRAWING

(HYBRID LAB – INFNIX VC-I)

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DATE: 06-16-14

SCALE: NOT TO SCALE

PLANNER: SITE PLANNING

PROJECT NO.  
TYPICAL

TS-E4