SAMSUNG

SAMSUNG GC85



VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741



~ DRAWING INDEX ~

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ELECTRICAL LAYOUT GC85

ROOM# 146 ELECTRICAL DETAILS

E1.3 MAIN PANEL DETAILS **OVERHEAD STRUCTURAL** LAYOUT ROOM# 164

> **OVERHEAD STRUCTURAL** LAYOUT ROOM# 146

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EQUIPMENT DETAILS GC85 QE1

EQUIPMENT CABLE LENGTH GC85

PROJECT MANAGER:

E2

S1

S2

S1.1

SHAWN SALANDER 5257 27TH ST S. SUITE 101

FARGO, NORTH DAKOTA

OFFICE PHONE CELL PHONE

701-297-0305 701-371-0505

E-MAIL SSALANDER@IMAGINGSOLUTIONSINC.COM



INSTALL LOCATION MAP

- SITE PROGRESS CHECKLIST -

- ☐ REVIEW EQUIPMENT ORDER FOR EXACT ITEMS PURCHASED. OPTIONAL/-FUTURE ITEMS NOT ON ORDER MAY BE INDICATED ON THESE PLANS.
- □ ALL ROOM DIMENSIONS ARE CRITICAL! IMMEDIATELY CONTACT GENE NOWACZYK AT RADSOURCE IF CHANGES OCCUR OR DIMENSIONS ARE NOT CORRECT.
- ☐ CONTACT A RADIATION PHYSICIST OR CONSULTANT TO SPECIFY REQUIREMENTS FOR RADIATION CONTAINMENT.
- ☐ PROVIDE A LOCKABLE EQUIPMENT HOLDING AREA CLOSE TO THE INSTALLATION FOR STORING TOOLS AND TEST EQUIPMENT.
- ☐ MAKE ARRANGEMENTS FOR ANY RIGGING, SPECIAL HANDLING, OR FACILITY MODIFICATIONS THAT MUST BE MADE IN ORDER FOR THE EQUIPMENT TO BE DELIVERED TO THE INSTALLATION SITE. IF DESIRED, YOUR LOCAL RADSOURCE TEAM REPRESENTATIVE CAN SUPPLY A REFERENCE LIST OF RIGGERS.
- MAKE SURE A DUST FREE, TEMPERATURE AND HUMIDITY CONTROLLED ENVIRONMENT IS AVAILABLE FOR STORING THE EQUIPMENT IF YOUR SITE IS NOT READY FOR INSTALLATION AT THE TIME OF DELIVERY. ONCE THE SITE IS PREPARED, YOU ARE THEN RESPONSIBLE FOR DELIVERING THE EQUIPMENT TO THE SITE.

CUSTOMER

ALL REQUIREMENTS FOR THIS **EQUIPMENT ARE NOT NOTED ON THIS** SHEET. IT IS SUGGESTED THAT THESE DRAWINGS BE REVIEWED BY QUALIFIED PROFESSIONALS WHO CAN ASSIST WITH MAKING DECISIONS REGARDING RADIATION CONTAINMENT, MAGNETIC FIELD CONTAINMENT, ELECTRICAL, STRUCTURAL AND MECHANICAL REQUIREMENTS. ALTHOUGH THE **EQUIPMENT MAY BE INSTALLED IN AN** EXISTING ROOM OF SIMILAR FUNCTION, REQUIREMENTS STILL NEED TO BE CHECKED.

SITE VISIT

NORMAL PROCEDURE IS TO ATTEND AN INITIAL CONSTRUCTION MEETING AND THEN PERFORM AN INSPECTION OF THE ELECTRICAL BUILD OUT AT OR ABOUT THE SAME TIME AS THE ELECTRICAL ROUGH IN (PRIOR TO SHEETROCK OR LEAD BEING INSTALLED), ADDITIONAL VISITS MAY BE REQUIRED

RECEIPT OF DRAWING

AND REVISIONS WILL HAVE CURRENT

THIS SIGNATURE PRINTED OR OTHERWISE REPRESENTS RECEIPT OF THIS SET OF PLANS, IT IS UNDERSTOOD THAT ANY DEVIATION FROM THESE DRAWINGS, DETAILS AND SPECIFICATIONS MAY **ENCROACH UPON THE EQUIPMENT** OPERATION, SERVICEABILITY, OR SAFETY GUIDELINES. ALSO I AM AWARE THAT ANY CHANGES MADE AFTER 16 June 2017 COULD RESULT IN ADDITIONAL EXPENSES BEING INCURRED IF RADSOURCE IS NOT NOTIFIED IN WRITING i.e. E-MAIL ETC... NEW SHEETS WILL BE ISSUED AS ADDITIONS

DATES ADDED.
NAME: NICHOLAS A. CHRISTENSEN DATE:
PRINTED:
COMPANY:
NAME: KEVIN FRAVEL DATE:
PRINTED:
COMPANY:
NAME:ANTHONY KOESSL DATE: PRINTED:
COMPANY:
NAME:DATE:PRINTED:

COMPANY:

SAMSUNG | Neur@Logica

GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

OFFICE: 816-741-5558

CELL: 816-223-6378 FAX: 816-587-2423

EMAIL: GNOWACZYK@RADSOURCE.NET

8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153

PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT: N/A p.N/A N/A

ELECTRICAL CONTRACTOR:

XXX

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

p.XXX KEVIN.FRAVEL@VA.GOV

IT MANAGER ANTHONY KOESSL ANTHONY.KOESSL@VA.GOV

RADIOLOGY MANAGER NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

REVISION: DATE:

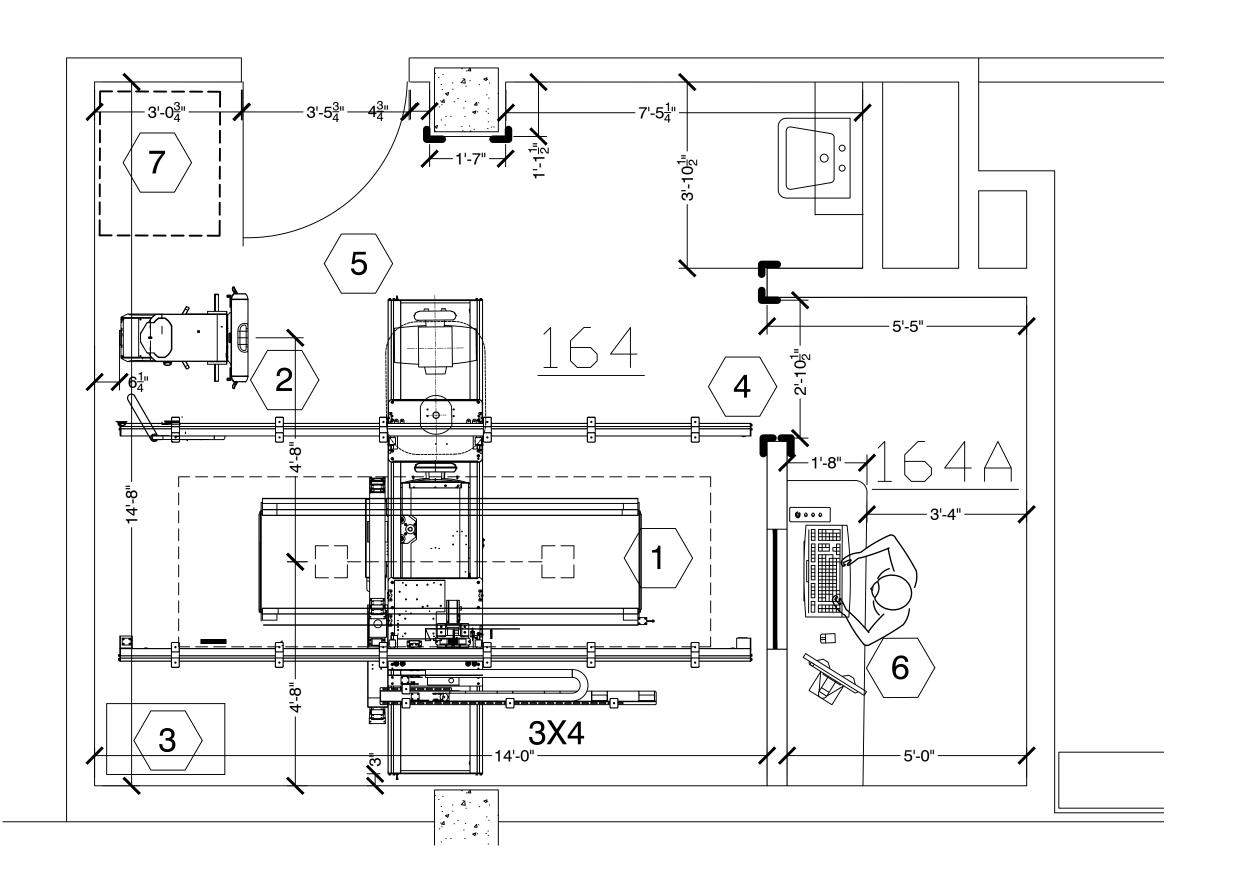
DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER:	

NOTED DATE: 6/16/2017 8:53:45 AM

FILE NAME: Fort Meade VA F1 06-16-2017.dwg

DRAWING SHEET #

LAST PLOT DATE: 16 June 2017 LAST REVIEW: 6/16/2017 10:36:27 AM



NOTE:

ARCHITECT / CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THIS DRAWING AGAINST AS BUILT. DIMENSIONS ILLUSTRATED WITH IN HAVE BEEN USED FOR PROPER EQUIPMENT PLACEMENT AND MAY BE USED IN THE FUTURE FOR RADIATION SHIELDING PROTECTION BY THE CUSTOMERS SELECTED PHYSICIST.

EACH RESPECTIVE ROOM WILL HAVE AN ENLARGED VIEW ILLUSTRATING THE PLACEMENT OF THE RADIOLOGY EQUIPMENT FOR THE ASSOCIATED **ROOM IDENTIFICATION AS SHOWN ON SHEETS** LABELED WITH THE LETTER "AQ-?".

SUPPLEMENTAL NOTES:

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT N/A. THE ARCHITECT N/A SHALL CONSULT WITH VA BLACK HILLS HEALTH CARE SYSTEM FOR ANY ADDITIONAL INFORMATION.

- ALL DIAGNOSTIC ROOMS INCLUDING X-RAY, MAMMO, R/F, CT, ETC., SHALL HAVE "LED" CAN LIGHTING AND/OR FLORESCENT LIGHT FIXTURES. THE LED FIXTURES ARE TO BE DISTRIBUTED AROUND THE ROOM AND SHOULD BE PROVIDED WITH DIMMER CONTROLS. THE DIMMER CONTROLS SHOULD BE LOCATED NEAR THE ENTRANCES AND IN THE CONTROL AREAS.
- IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
- A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS. MINIMUM CEILING HEIGHT 9'-2" - 9'-5"
- ALL CABINETRY WORK IS TO BE DESIGNED BY THE ARCHITECT AND PROVIDED BY VA BLACK HILLS HEALTH CARE SYSTEM AND OR N/A. RECOMMEND ALL COUNTERS SHALL HAVE ROUNDED CORNERS.
- PROVIDE FOR REFUSE REMOVAL AND DISPOSAL (E.G. CRATES, CARTONS, PACKING)
- PROVIDE A WORKING RESTROOM WITH SUPPLIES WITH IN THE FACILITY

SAMSUNG | Neur@Logica

GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

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EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY. MISSOURI 64153

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ARCHITECT: N/A

p.N/A N/A

ELECTRICAL CONTRACTOR:

XXX p.XXX-XXX-XXXX m.XXX-XXX-XXXX

GENERAL CONTRACTOR: p.XXX-XXX-XXXX

.NET/.COM

m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL p.XXX

KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL

p. XXX ANTHONY.KOESSL@VA.GOV

RADIOLOGY MANAGER NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

DATE:

DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER:	

SCALE: NOTED DATE: 6/16/2017 8:53:45 AM

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DRAWING SHEET #

ROOM LAYOUT - RADIOLOGY 164

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

MINIMUM CEILING HEIGHT: 9'-2" - 9'-5"

NOTE:

THIS SAMSUNG GC85 ROOM CONFIGURATION UTILIZES A STANDARD THREE (3) METER TRANSVERSE BRIDGE AND STANDARD FOUR (4) METER LONGITUDE RAILS OTHER VARIATIONS ARE AVAILABLE AT AN ADDITIONAL EXPENSE BUT NOT REQUIRED. CONTACT YOUR SALES PERSONAL FOR INFORMATION.

COUNTER TOP IN OPERATOR CONTROL AREA SHOULD BE AT 40.0"-42.0" A.F.F. FOR STANDING OPERATIONS

ENVIRONMENT

EQUIPMENT LEGEND SAMSUNG XGEO-GC85

WEIGHT

440LBS

330 LBS

220 LBS

140 LBS

616 LBS

35 LBS

235 LBS

HEAT OUTPUT

2,046 BTU

511 BTU

11,798 BTU

3400 BTU

1,909 BTU

1,364 BTU

N/A BTU

AMBIENT OPERATION TEMPERATURE: 55-75° (F) ALLOWABLE TEMPERATURE CHANGE: 15° (F) PER HOUR HUMIDITY: 20-80 PERCENT NON CONDENSING ALLOWABLE HUMIDITY CHANGE: 10 PERCENT PER HOUR

PROVIDED BY

OWNER

OWNER

OWNER

OWNER

OWNER

OWNER

OWNER

INSTALLED BY

SAMSUNG

SAMSUNG

SAMSUNG

SAMSUNG

SAMSUNG

SAMSUNG

SAMSUNG

1m 2m 3m

SPECIAL DELIVERY TO BUILDING NOT COVERED BY SAMSUNG, TO BE COORDINATED BETWEEN "VA BLACK HILLS HEALTH CARE SYSTEM AND/OR N/A" AND SAMSUNG

PATIENT TABLE

CEILING RAIL

WORK STATION

STITCHING STAND

WALL / CHEST STAND

GENERATOR CABINET

CEILING MOUNTED TUBE HEAD

DESCRIPTION

OWNER: VA BLACK HILLS HEALTH CARE SYSTEM

QUANTITY

1

1

1

1

ITEM

 $\langle 1 \rangle$

2

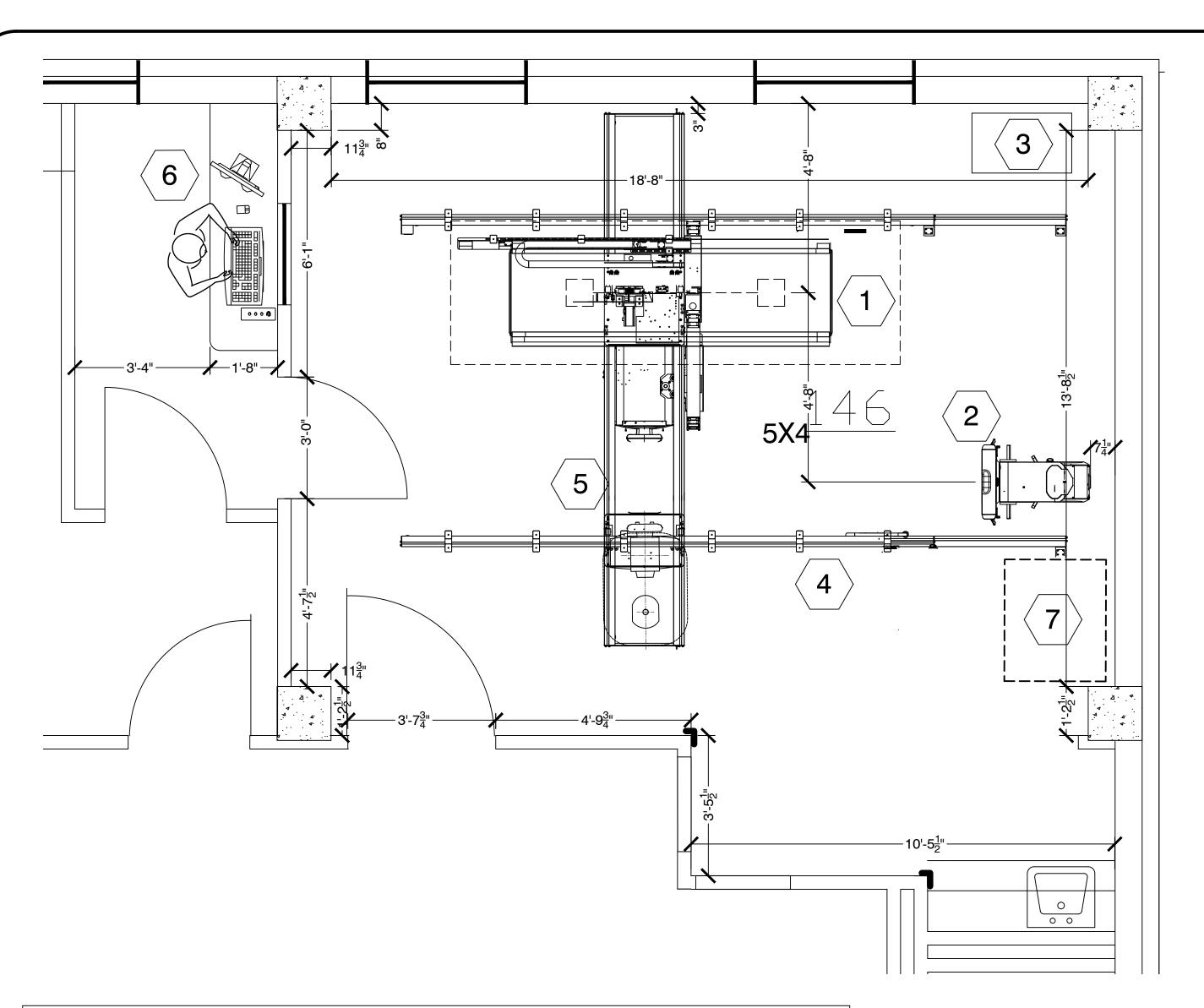
3

 $\langle 4 \rangle$

(5)

 $\langle 6 \rangle$

 $\langle 7 \rangle$



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SUPPLEMENTAL NOTES:

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3m

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EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR

PROJECT

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GENE NOWACZYK

SITE PLANNING &
PROJECT DEVELOPMENT

OFFICE: 816-741-5558 CELL: 816-223-6378

FAX: 816-587-2423

ARCHITECT: N/A

p.N/A

ELECTRICAL CONTRACTOR:

XXX p.XXX-XXX-XXXX m.XXX-XXX-XXXX

.NET/.COM

GENERAL CONTRACTOR:

p.XXX-XXX-XXXX.q m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

p.XXX

KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL p. XXX

ANTHONY.KOESSL@VA.GOV

RADIOLOGY MANAGER NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

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DRAWING SHEET #

A1.1

EQUIPMENT LEGEND SAMSUNG XGEO-GC85

OWNER: VA BLACK HILLS HEALTH CARE SYSTEM							
ITEM	QUANTITY	DESCRIPTION	WEIGHT	HEAT OUTPUT	PROVIDED BY	INSTALLED BY	
1	1	PATIENT TABLE	440LBS	2,046 BTU	OWNER	SAMSUNG	
2	1	WALL / CHEST STAND	330 LBS	511 BTU	OWNER	SAMSUNG	
3	1	GENERATOR CABINET	220 LBS	11,798 BTU	OWNER	SAMSUNG	
4	1	CEILING RAIL	140 LBS	3400 BTU	OWNER	SAMSUNG	
5	1	CEILING MOUNTED TUBE HEAD	616 LBS	1,909 BTU	OWNER	SAMSUNG	
6	1	WORK STATION	35 LBS	1,364 BTU	OWNER	SAMSUNG	
7	1	STITCHING STAND	235 LBS	N/A BTU	OWNER	SAMSUNG	

SPECIAL DELIVERY TO BUILDING NOT COVERED BY SAMSUNG, TO BE COORDINATED BETWEEN "VA BLACK HILLS HEALTH CARE SYSTEM AND/OR N/A" AND SAMSUNG

ENVIRONMENT

AMBIENT OPERATION TEMPERATURE: 55-75° (F) ALLOWABLE TEMPERATURE CHANGE: 15° (F) PER HOUR HUMIDITY: 20-80 PERCENT NON CONDENSING ALLOWABLE HUMIDITY CHANGE: 10 PERCENT PER HOUR

ROOM LAYOUT - RADIOLOGY 146

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

MINIMUM CEILING HEIGHT: 9'-2" - 9'-5"

NOTE:

1m

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COUNTER TOP IN OPERATOR CONTROL AREA SHOULD BE AT 40.0"-42.0" A.F.F. FOR STANDING OPERATIONS

2m

MINIMUM SITE PREPARATION REQUIREMENTS

WALLS TO BE PAINTED OR COVERED, BASEBOARDS INSTALLED, FLOORS TO BE TITLED AND OR COVERED, CEILING SHALL HAVE GRID TILES AND LIGHTING FIXTURES INSTALLED.

DOORS AND WINDOWS, ESPECIALLY RADIATION PROTECTION BARRIERS, INSTALLED AND FINISHED WITH LOCK SETS OPERATIONAL.

ALL ELECTRICAL CONVENIENCE, CONDUIT, RACEWAY AND JUNCTION BOXES INSTALLED.

INCOMING MAINS POWER OPERATIONAL AND CONNECTED TO X-RAY ROOM BREAKER.

115 VOLTS CONVENIENCE OUTLETS OPERATIONAL.

ALL SUPPORT STRUCTURES CORRECTLY INSTALLED.

ALL CHANNELS, PIPES, BEAM'S AND OR OTHER SUPPORTING DEVICES SHOULD BE LEVEL, PARALLEL AND FREE OF LATERAL OR LONGITUDINAL MOVEMENTS.

ALL CONTRACTOR SUPPLIED CABLES PULLED AND TERMINATED.

A DUST FREE ENVIRONMENT IN AND AROUND THE PROCEDURE ROOM.

ALL HEATING AND VENTILATION / AIR-CONDITIONING INSTALLED AND OPERATIONAL

A CLEAR DOOR OPENING FOR MOVING EQUIPMENT INTO THE BUILDING MUST BE 42 IN. X 82 IN. OR LARGER CONTINGENT ON AN 8' CORRIDOR WIDTH.

NOTICE:

THIS DRAWING SET IS THE SOLE PROPERTY OF NOWACZYK / PEMBER & ASSOCIATES
MEP / ARCHITECTURAL ENGINEERS

ITS USE IS AUTHORIZED ONLY FOR THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM/CONTRACTOR N/A TO DESIGN AND INCORPORATE OUR CONCEPT INTO CONSTRUCTION AND PREPARATION FOR IMAGING EQUIPMENT INSTALLATION. THESE DRAWINGS SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THE AGREED UPON DESIGN BETWEEN NEUROLOGICA AND THEIR CUSTOMER.

THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM IS RESPONSIBLE FOR ALL ROOM PREPARATION COSTS, FEES, PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED IN THE GENERAL ORDER FOR THE EQUIPMENT PURCHASE.

RADIATION SHIELDING IS NOT SHOWN ON THESE PLANS.
HOWEVER, THE CUSTOMER VA BLACK HILLS HEALTH CARE
SYSTEM SHALL, AT THEIR OWN EXPENSE, HAVE SHIELDING
CALCULATIONS FOR THE ROOM PREPARED BY A LICENSED
RADIATION PHYSICIST.

PREFACE

THESE DRAWINGS HAVE BEEN PREPARED BY NEUROLOGICA, THEIR PURPOSE IS TO PROVIDE THE SITING, ELECTRICAL, MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS REQUIRED TO ACCOMMODATE THE INSTALLATION AND OPERATION OF THE DIAGNOSTIC IMAGING EQUIPMENT AND SUB-COMPONENTS ILLUSTRATED.

THE LAYOUT(S) PROVIDED FOR ALL COMPONENTS
PURCHASED FROM AND/OR PROVIDED BY THE EQUIPMENT
MANUFACTURER SHALL SERVE AS A GUIDE FOR
INSTALLATION BY THE LOCAL SERVICE/INSTALLATION
REPRESENTATIVES.

INFORMATION IN THESE DRAWINGS RELATING TO BUILDING/FACILITY SPECIFICATIONS THAT WILL SUPPORT IMAGING EQUIPMENT COMPONENTS SUCH AS ELECTRICAL, STRUCTURAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS SHALL BE UTILIZED AS A GUIDE BY THE CUSTOMER'S ARCHITECT N/A AND/OR CONTRACTOR N/A. FACILITY CONDITIONS MAY DICTATE ACTUAL CONSTRUCTION METHODS AND MATERIALS APPLIED. HOWEVER, ALL METHODS AND MATERIALS MUST COMPLY WITH EQUIPMENT MANUFACTURER SPECIFICATIONS, AS WELL AS LOCAL AND/OR NATIONAL BUILDING CODES.

THE REQUIRED CEILING HEIGHT OF 9'-2" - 9'-5" INDICATED ON THESE PLANS IS TO INSURE EQUIPMENT FUNCTION IS NOT INHIBITED. CONSULT WITH YOUR EQUIPMENT INSTALLATION SPECIALIST REGARDING ACCEPTABILITY OF THE OTHER CEILING HEIGHTS. CHECK ALL DOOR OPENINGS FROM DELIVERY LOCATION TO WHERE EQUIPMENT IS TO BE INSTALLED.

THE QUALITY OF CONSTRUCTION METHODS, MATERIALS AND CONFORMANCE TO EQUIPMENT MANUFACTURER SPECIFICATIONS AND TOLERANCES, WILL AFFECT EQUIPMENT PERFORMANCE.

MAGNETIC INTERFERENCE SPECIFICATIONS

DIGITAL FLAT PANEL MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO GUARANTEE SPECIFIED IMAGING PERFORMANCE.

X-RAY TUBES AND EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE SPECIFIED PERFORMANCE DATA INTEGRITY

SYSTEM ELECTRONICS / EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN TEN GAUSS TO GUARANTEE DATA INTEGRITY

CONSOLE EQUIPMENT MUST BE LOCATED IN AMBIENT STATIC MAGNETIC FIELDS OF LESS THAN ONE GAUSS TO OBTAIN SPECIFIED GEOMETRIC LINEARITY.

SITE ENVIRONMENT SPECIFICATIONS

AMBIENT OPERATING TEMPERATURE: 55° TO 75° F (16° TO 24° C) MAXIMUM

ALLOWABLE TEMPERATURE CHANGE OF 15° F, (5° C) / HOUR MAXIMUM ROOM

TEMPERATURE GRADIENT 5° F, (3° C)

HUMIDITY: 20 TO 80 PERCENT NON-CONDENSING, MAXIMUM ALLOWABLE CHANGE OF 5 PERCENT / HOUR

ALTITUDE: NOT TO EXCEED 10,000 FT (3050M) ABOVE SEA LEVEL

THE ENVIRONMENT FOR THE ELECTRONICS CABINET MUST BE CONTROLLED SO THE ABOVE RESTRICTIONS ARE NOT EXCEEDED.

DO NOT RESTRICT THE AIR INTAKE OR AIR EXHAUST OF THE SYSTEM COMPONENTS.

ENVIRONMENTAL CONDITIONS LISTED ABOVE MUST BE MAINTAINED AT ALL TIMES, INCLUDING OVERNIGHT AND HOLIDAYS.

SAMSUNG | Neur@Logica

GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

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113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT: **N/A** p.N/A

N/A

ELECTRICAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR:

N/A p.XXX-XXX-XXXX

N/A

m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

p.XXX KEVIN.FRAVEL@VA.GOV

Γ____

ANTHONY KOESSL p. XXX ANTHONY.KOESSL@VA.GOV

RADIOLOGY MANAGER NICHOLAS A. CHRISTENSEN D XXX

NICHOLAS.CHRISTENSEN2@VA.GOV

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DRAWN BY:	GENE N.
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ELECTRICAL LEGEND

MAIN DISCONNECT CONTRACTOR SUPPLIED, PART # CBE1 (NEA-43080-4W-ST24DC-SPD-WLC-FC) SEE SHEET (E1.3) CAN BE OBTAINED FROM RADSOURCE IMAGING, CONTACT GENE NOWACZYK AT 816-223-6378

> 480VAC @ 80 AMP FRAME, UL LISTED WITH MAGNETIC CONTACTOR, SEMI FLUSH MOUNTED IN X-RAY EXAM ROOM. FEED THREE (3) CONDUCTORS #___ AWG ,ONE (1) NEUTRAL# AWG AND ONE (1) #1 GROUND TO "XG" FROM BREAKER PER N.E.C.

INSTALL A 5.0' TAIL IN METAL FLEX ON SPLIT COVER LEAVING 2.0' OF EXPOSED CONDUCTOR OUTSIDE THE FLEX, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL MAIN DISCONNECT LISTED ALONG WITH FLEX AND CONNECTORS AS REQUIRED, TERMINATE FLEX WITH A 90DEG BOTH ENDS. SEE SHEET E-3 FOR DETAILS

- 1 @ 6 x 6 x 4 JUNCTION BOX PART # (JB060604) MOUNT BOTTOM OF BOX TO FINISHED FLOOR OR AT MIN DIRECTLY ABOVE COVE BASE
 - 1 @ COVER
 - 1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)
- 1 @ 6 x 6 x 4 JUNCTION BOX, PART # (JB060604) MOUNT CENTER **OC** OF BOX TO 18.0" A.F.F.
 - 1 @ COVER
 - 1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)

1 @ 14.5 x 12 x 4 RECESSED MOUNTED JUNCTION BOX WITH SPLIT COVERAND DIVIDER, PART # (JB14.51204-SC-SP-DV) CONNECT TO "CBE1" PER N.E.C. MOUNT CENTER 18.0" A.F.F. SEE SHEET (E1.3)

INSTALL A 5.0' TAIL IN METAL FLEX ON ON SMALL SIDE OF SPLIT COVER LEAVING 2.0' OF EXPOSED CONDUCTOR OUTSIDE THE FLEX, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL JUNCTION BOX, FLEX AND CONNECTORS AS REQUIRED, TERMINATE FLEX WITH A 90DEG BOTH ENDS.



1 @ 10 x 3 x 4 RECESSED MOUNTED WALL DUCT WITH COVERS, MOUNT MOUNT ONTOP OF "XG" WITH SUPPLIED CONNECTORS IN KIT. SEE SHEET (E1.3)



SINGLE GANG 2-1/2" DEEP FLUSH MOUNTED JUNCTION BOX, **ST1**) SUPPLY AND INSTALL MUSHROOM HEAD "EMERGENCY STOP BUTTON" 60.0" A.F.F.. WIRE TO "CBE1" MAIN DISCONNECT MAGNETIC CONTACTOR PER N.E.C. SUPPLIED AND INSTALLED BY **ELECTRICAL CONTRACTOR**



WARNING LIGHT (X-RAY ON), LED LIGHT FIXTURE SUPPLIED AND **INSTALLED BY CONTRACTOR**



1 @ 120 VAC RECEPTACLE MOUNTED ABOVE FINISHED CEILING, ACR PLACE TAG IN CEILING GRID DIRECTLY BELOW INDICATING ABOVE CEILING OUTLET.



1 @ 6 x 6 x 4 JUNCTION BOX PART # (JB060604) MOUNT TOP OF (FB) BOX FLUSH TO FINISHED FLOOR

SAMSUNG GC 85 ELECTRICAL INSTALLATION KIT CONTRACTOR SUPPLIED

MAIN DISCONNECT, 3 PHASE, 480VAC, 80 AMP, 5 WIRE, 24VDC SHUNT TRIP, INTEGERAL 24VDC CONTROL VOLTAGE, TYPE 2 SP200 200KA

SURGE PROTECTION, CONTROLS FOR X-RAY IN USE SIGNAGE, FLUSH

COVER 15.4"w x 32.4"h

EMERGENCY STOP PUSH BUTTON / 2NO-2NC CONTACTS

EMERGENCY STOP COVER PVC

X-RAY IN USE LED WARNING LIGHT, 24VDC, ETHERNET CONNECTIVITY

50.0' ETHERNET CABLE FOR X-RAY IN USE LIGHT

WIRE DUCT KIT FOR ALL SAMSUNG X-RAY INSTALLATIONS. INCLUDES

10.0" X 3.5" VERTICAL RISER WITH 2 DIVIDERS, TERMINAL BOX 14.0" X

12.0" X 3.5" AND RELATED ACCESSORIES, FLUSH MOUNTED

6.0" X 6.0" X 3.5" JUNCTION BOX WITH FLUSH COVER, PAINTED STEEL

6.0" x 6.0" x 3.5" WELDED JUNCTION BOX WITH FLUSH COVER, PAINTED STEEL

1 @ COVER

NEA-43080-5W-ST24DC-SPD-WLC-FC

NEA-ESTOP22

NEA-ESTOPCV

NEAX-ON-24DC-E

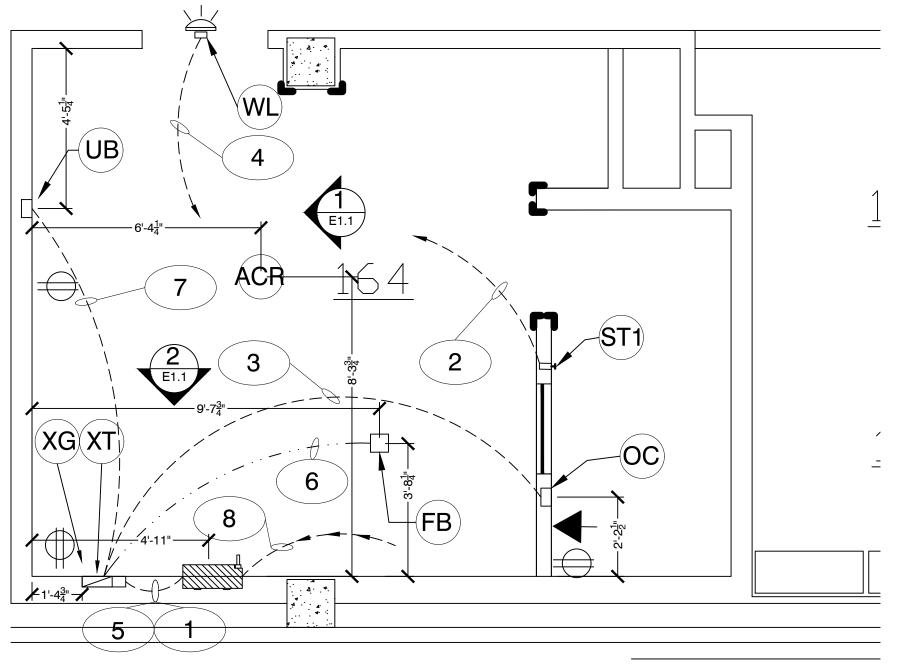
XIU-CABLE

W1035-KIT-GC

JB060604-FC

JB060604-FB

1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)



ELECTRICAL LAYOUT SAMSUNG GC85

SCALE: 3/8" = 1'-0" MINIMUM CEILING HEIGHT: 9'-2" - 9'-5"

REQUIRED CONDUIT RUNS FOR BASE SYSTEM BY CONTRACTOR

CONDUIT ABOVE CEILING DED N.E.C. DUIL 2 @ #2AWC, DUIL SE 1 @

8	INCOMING	то	CBE1	CONDUIT AS REQUIRED	
7	XG	то	UB	2.0" CONDUIT, ABOVE CEILING IS ILLUSTRATED HOWEVER BELOW GRAD IS ACCEPTABLE	
6	XG	то	FB	2.0" CONDUIT BELOW GRAD	
5	N/A	то	N/A	1/2" CNDUIT ABOVE CEILING, PULL 18-2 AWG THEROMOSTATE WIRE, LEAVE 3.0' AT CBE1 AND 12.0' AT XG, LABLE BOTH ENDS "FOR WARNING LIGHT"	
4	CBE1	то	WL	NO CONDUIT REQUIRED WITH KIT, WITH OUT KIT USE 3/4" CND	
3	XG	то	ОС	2.0" CONDUIT, ABOVE CEILING IS ILLUSTRATED HOWEVER BELOW GRAD IS ACCEPTABLE	
2	CBE1	то	ST1	CONDUIT AS REQUIRED PER N.E.C. ABOVE CEILING, PULL 2 @ # CONNECT TO SHUNT TRIP EMERGENCY STOP DEVICE	
1	CBE1	то	XG	#3 AWG GROUND. CONNECT WIRE TO BREAKER AND LEAVE 6' TAILS AT "XG". LABEL "FOR X-RAY POWER"	

ELECTRICAL NOTES

ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES. MIN 2 PULL STRINGS PER CONDUIT RUN.

WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.

IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.

GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LED BULBS, USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.

ROUTING OF CABLE DUCTWORK, CONDUITS, ETC., MUST RUN DIRECT AS POSSIBLE OTHERWISE MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT TO POINT). SHEET QE1

CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.

PHYSICAL CONNECTION OF PRIMARY POWER TO SAMSUNG EQUIPMENT IS TO BE MADE BY CUSTOMERS ELECTRICAL CONTRACTOR XXX WITH THE SUPERVISION OF A RADSOURCE IMAGING REPRESENTATIVE. THE RADSOURCE IMAGING REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION, AND INSURE PROPER HANDLING OF SAMSUNG EQUIPMENT.

ALL ELECTRICAL CONVEINCE, NETWORKIING AND PHONE OUTLETS TO BE 18.0' A.F.F. UNLESS OTHER WISE NOTED

FEILD VERIFY EXACT LOCATIONS OF EXISTING ELECTRICAL PANELS, CONDUITS, JUNCTION BOXES ETC FOR NEW CONNECTIONS.

LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6FT

ALL CONDUITS & CONDUCTERS SHALL BE INSTALLED INSIDE WALLS OR ABOVE CEILING, NO EXPOSED CONDUIT OR CONDUCTORS WILL BE ALLOWED.

ALL WIRE RUNS WILL BE A MINIMUM OF FLEXIBLE METAL CONDUIT (FMC)

SYMBOLS LEGEND

GROUND FAULT INTERRUPT RECEPTACLE 110/115VAC 20 AMP

PHONE / DATA

PHONE

DATA

WALL MOUNTED PHONE 48"A.F.F.

— — — ABOVE CEILING CONDUIT

BELOW GRAD CONDUIT

3 x 10 HORIZONTAL WALL DUCT

3 x 10 FLUSH TO FINISHED FLOOR DUCT



<mark>SAMSUNG</mark> | Neur⊚Logica

GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

OFFICE: 816-741-5558 CELL: 816-223-6378 FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR

KANSAS CITY, MISSOURI 64153

PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT: p.N/A

N/A

ELECTRICAL CONTRACTOR: XXX

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR: p.XXX-XXX-XXXX m.XXX-XXX-XXXX N/A

PROJECT MANAGER FOR CUSTOMER: **KEVIN FRAVEL** p.XXX

KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL

ANTHONY.KOESSL@VA.GOV

INFECTIOUS DISEASE NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

DATE:

DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER:	

SCALE: NOTED

DATE: 6/16/2017 8:53:45 AM

FILE NAME:

DRAWING SHEET #

Fort Meade VA F1 06-16-2017.dwg

ELECTRICAL LEGEND

MAIN DISCONNECT CONTRACTOR SUPPLIED, PART # CBE1 (NEA-43080-4W-ST24DC-SPD-WLC-FC) SEE SHEET (E1.3) CAN BE OBTAINED FROM RADSOURCE IMAGING, CONTACT GENE NOWACZYK AT 816-223-6378

> 480VAC @ 80 AMP FRAME, UL LISTED WITH MAGNETIC CONTACTOR, SEMI FLUSH MOUNTED IN X-RAY EXAM ROOM. FEED THREE (3) CONDUCTORS #___ AWG ,ONE (1) NEUTRAL# AWG AND ONE (1) #1 GROUND TO "XG" FROM BREAKER PER N.E.C.

INSTALL A 5.0' TAIL IN METAL FLEX ON SPLIT COVER LEAVING 2.0' OF EXPOSED CONDUCTOR OUTSIDE THE FLEX, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL MAIN DISCONNECT LISTED ALONG WITH FLEX AND CONNECTORS AS REQUIRED, TERMINATE FLEX WITH A 90DEG BOTH ENDS. SEE SHEET E-3 FOR DETAILS



1 @ 6 x 6 x 4 JUNCTION BOX PART # (JB060604) MOUNT BOTTOM OF BOX TO FINISHED FLOOR OR AT MIN DIRECTLY ABOVE COVE BASE

- 1 @ COVER
- 1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)
- 1 @ 6 x 6 x 4 JUNCTION BOX, PART # (JB060604) MOUNT CENTER **OC** OF BOX TO 18.0" A.F.F.
 - 1 @ COVER
 - 1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)



1 @ 14.5 x 12 x 4 RECESSED MOUNTED JUNCTION BOX WITH SPLIT COVERAND DIVIDER, PART # (JB14.51204-SC-SP-DV) CONNECT TO "CBE1" PER N.E.C. MOUNT CENTER 18.0" A.F.F. SEE SHEET (E1.3)

INSTALL A 5.0' TAIL IN METAL FLEX ON ON SMALL SIDE OF SPLIT COVER LEAVING 2.0' OF EXPOSED CONDUCTOR OUTSIDE THE FLEX, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL JUNCTION BOX, FLEX AND CONNECTORS AS REQUIRED, TERMINATE FLEX WITH A 90DEG BOTH ENDS.



1 @ 10 x 3 x 4 RECESSED MOUNTED WALL DUCT WITH COVERS, MOUNT MOUNT ONTOP OF "XG" WITH SUPPLIED CONNECTORS IN KIT. SEE SHEET (E1.3)



SINGLE GANG 2-1/2" DEEP FLUSH MOUNTED JUNCTION BOX, ST1 SUPPLY AND INSTALL MUSHROOM HEAD "EMERGENCY STOP BUTTON" 60.0" A.F.F.. WIRE TO "CBE1" MAIN DISCONNECT MAGNETIC CONTACTOR PER N.E.C. SUPPLIED AND INSTALLED BY **ELECTRICAL CONTRACTOR**



WARNING LIGHT (X-RAY ON), LED LIGHT FIXTURE SUPPLIED AND INSTALLED BY CONTRACTOR



1 @ 120 VAC RECEPTACLE MOUNTED ABOVE FINISHED CEILING, ACR PLACE TAG IN CEILING GRID DIRECTLY BELOW INDICATING ABOVE CEILING OUTLET.



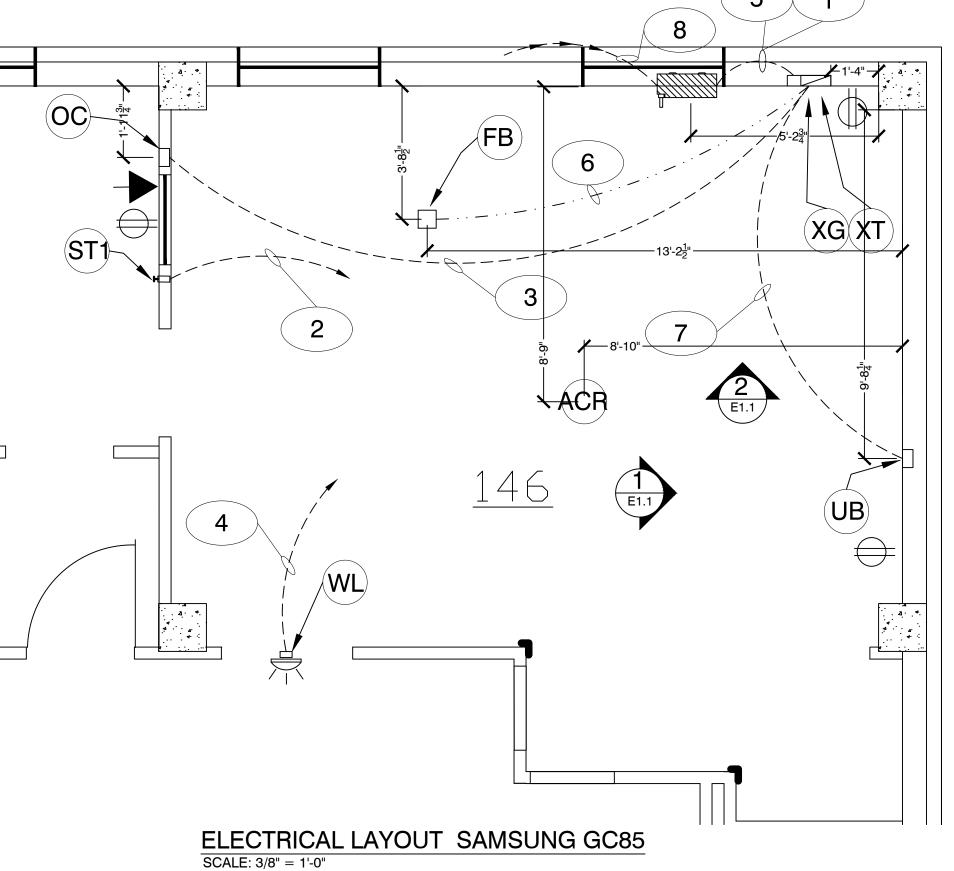
1 @ 6 x 6 x 4 JUNCTION BOX PART # (JB060604) MOUNT TOP OF (FB) BOX FLUSH TO FINISHED FLOOR

1 @ COVER

JB060604-FC

JB060604-FB

1 @ 2-1/2 CHASE NIPPLE WITH BUSHING AND LOCKNUT, INSTALLED BY CONTRACTOR (CENTER IN COVER)



MINIMUM CEILING HEIGHT: 9'-2" - 9'-5"

REQUIRED CONDUIT RUNS FOR BASE SYSTEM BY CONTRACTOR

1	CBE1	то	XG	CONDUIT ABOVE CEILING PER N.E.C., PULL 3 @ #3AWG; PULSE 1 @ #3 AWG GROUND. CONNECT WIRE TO BREAKER AND LEAVE 6' TAILS AT "XG". LABEL "FOR X-RAY POWER"
2	CBE1	ТО	ST1	CONDUIT AS REQUIRED PER N.E.C. ABOVE CEILING, PULL 2 @ # CONNECT TO SHUNT TRIP EMERGENCY STOP DEVICE
3	XG	то	ОС	2.0" CONDUIT, ABOVE CEILING IS ILLUSTRATED HOWEVER BELOW GRAD IS ACCEPTABLE
4	CBE1	то	WL	NO CONDUIT REQUIRED WITH KIT, WITH OUT KIT USE 3/4" CND
5	N/A	то	N/A	1/2" CNDUIT ABOVE CEILING, PULL 18-2 AWG THEROMOSTATE WIRE, LEAVE 3.0' AT CBE1 AND 12.0' AT XG, LABLE BOTH ENDS "FOR WARNING LIGHT"
6	XG	то	FB	2.0" CONDUIT BELOW GRAD
7	XG	то	UB	2.0" CONDUIT, ABOVE CEILING IS ILLUSTRATED HOWEVER BELOW GRAD IS ACCEPTABLE
8	INCOMING MAINS	то	CBE1	CONDUIT AS REQUIRED

ELECTRICAL NOTES

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ALL WIRE RUNS WILL BE A MINIMUM OF FLEXIBLE METAL CONDUIT (FMC)

SYMBOLS LEGEND

GROUND FAULT INTERRUPT RECEPTACLE \ominus 110/115VAC 20 AMP

PHONE / DATA

PHONE

DATA

WALL MOUNTED PHONE 48"A.F.F.

— — — ABOVE CEILING CONDUIT

3 x 10 HORIZONTAL WALL DUCT

BELOW GRAD CONDUIT

3 x 10 FLUSH TO FINISHED FLOOR DUCT

<mark>SAMSUNG</mark> | Neur⊚Logica

GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

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PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT: p.N/A

N/A

XXX

ELECTRICAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

> **GENERAL CONTRACTOR:** p.XXX-XXX-XXXX m.XXX-XXX-XXXX N/A

PROJECT MANAGER FOR CUSTOMER: **KEVIN FRAVEL**

XXX.q KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL

ANTHONY.KOESSL@VA.GOV

INFECTIOUS DISEASE NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

REVISION:	DATE:

DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER:	

SCALE: NOTED DATE: 6/16/2017 8:53:45 AM

FILE NAME: Fort Meade VA F1 06-16-2017.dwg

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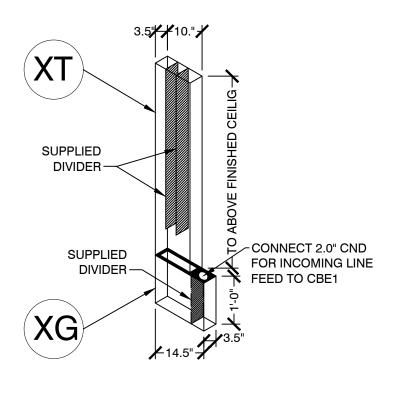


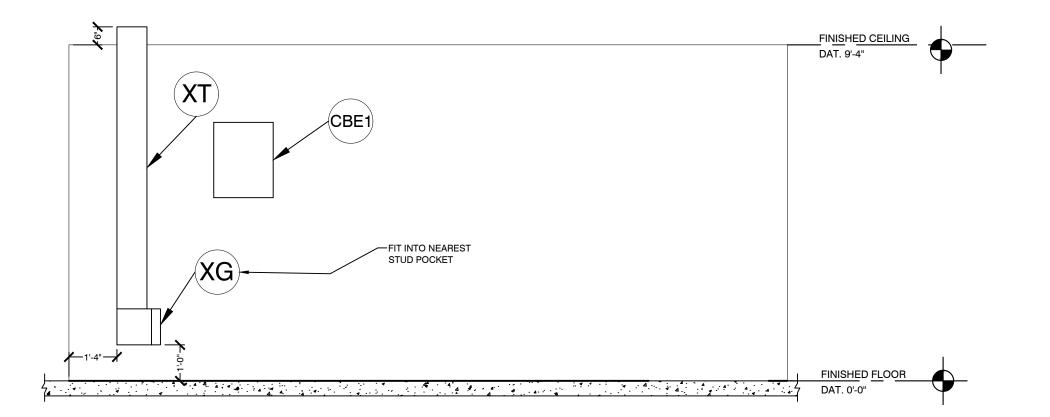
EMERGENCY STOP PUSH BUTTON / 2NO-2NC CONTACTS NEA-ESTOP22 **NEA-ESTOPCV EMERGENCY STOP COVER PVC** NEAX-ON-24DC-E XIU-CABLE 50.0' ETHERNET CABLE FOR X-RAY IN USE LIGHT WIRE DUCT KIT FOR ALL SAMSUNG X-RAY INSTALLATIONS. INCLUDES 10.0" X 3.5" VERTICAL RISER WITH 2 DIVIDERS, TERMINAL BOX 14.0" X W1035-KIT-GC

X-RAY IN USE LED WARNING LIGHT, 24VDC, ETHERNET CONNECTIVITY 12.0" X 3.5" AND RELATED ACCESSORIES, FLUSH MOUNTED

6.0" x 6.0" x 3.5" WELDED JUNCTION BOX WITH FLUSH COVER, PAINTED STEEL

6.0" X 6.0" X 3.5" JUNCTION BOX WITH FLUSH COVER, PAINTED STEEL

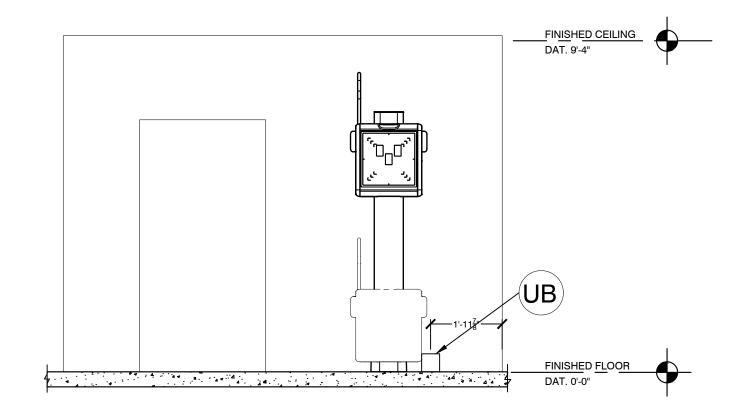




JUNCTION BOX/DUCT DETAILS

SCALE: NTS

JUNCTION BOX ELEVATION



2 UPRIGHT ELEVATION

SAMSUNG | Neur@Logica

GENE NOWACZYK

SITE PLANNING &
PROJECT DEVELOPMENT

OFFICE: 816-741-5558 CELL: 816-223-6378

FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR

KANSAS CITY, MISSOURI 64153

PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT:

p.N/A

N/A

ELECTRICAL CONTRACTOR:

XXX p.XXX-XXX-XXXX

m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX N/A

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

p.XXX

KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL

p. XXX

ANTHONY.KOESSL@VA.GOV

INFECTIOUS DISEASE

NICHOLAS A. CHRISTENSEN

NICHOLAS.CHRISTENSEN2@VA.GOV

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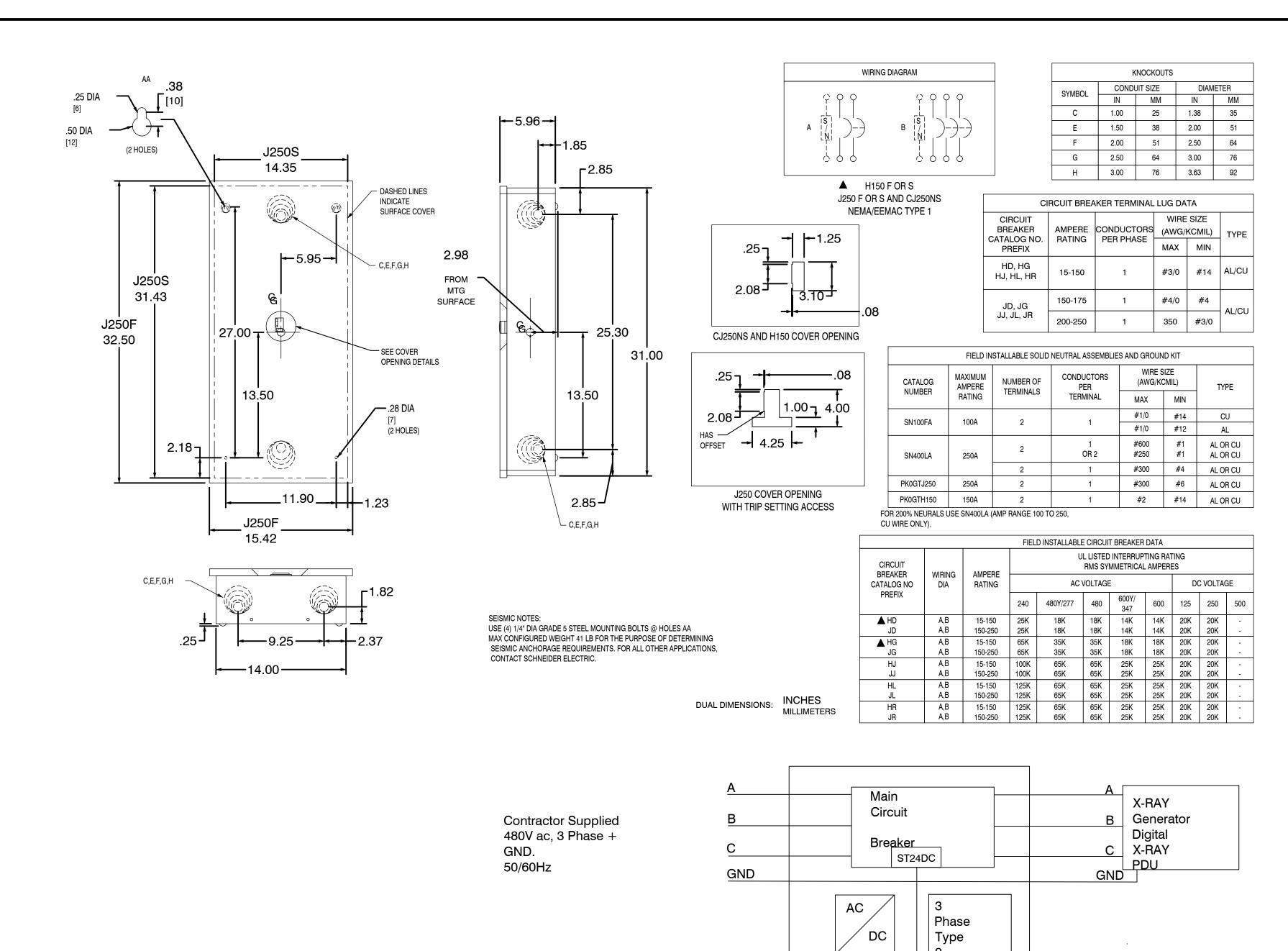
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DRAWING SHEET #

E1.1



Class 2

24VDC

Emergency

Power

Off(EPO)

MAIN DISCONNECT (NEA-43080-4W-ST24DC-SPD-WLC-FC)

SPD

Internal

Controls

Indication

Local

Ethernet

24VDC

Class 2

24VDC

In Use Sign

Imaging Interface

Cabinet

(Dry Contact)

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GENE NOWACZYK

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PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT: **N/A** p.N/A

ELECTRICAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR: N/A

p.XXX-XXX-XXXX m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

p.XXX

KEVIN.FRAVEL@VA.GOV

IT ANTHONY KOESSL

p. XXX

ANTHONY.KOESSL@VA.GOV

INFECTIOUS DISEASE
NICHOLAS A. CHRISTENSEN

p.XXX

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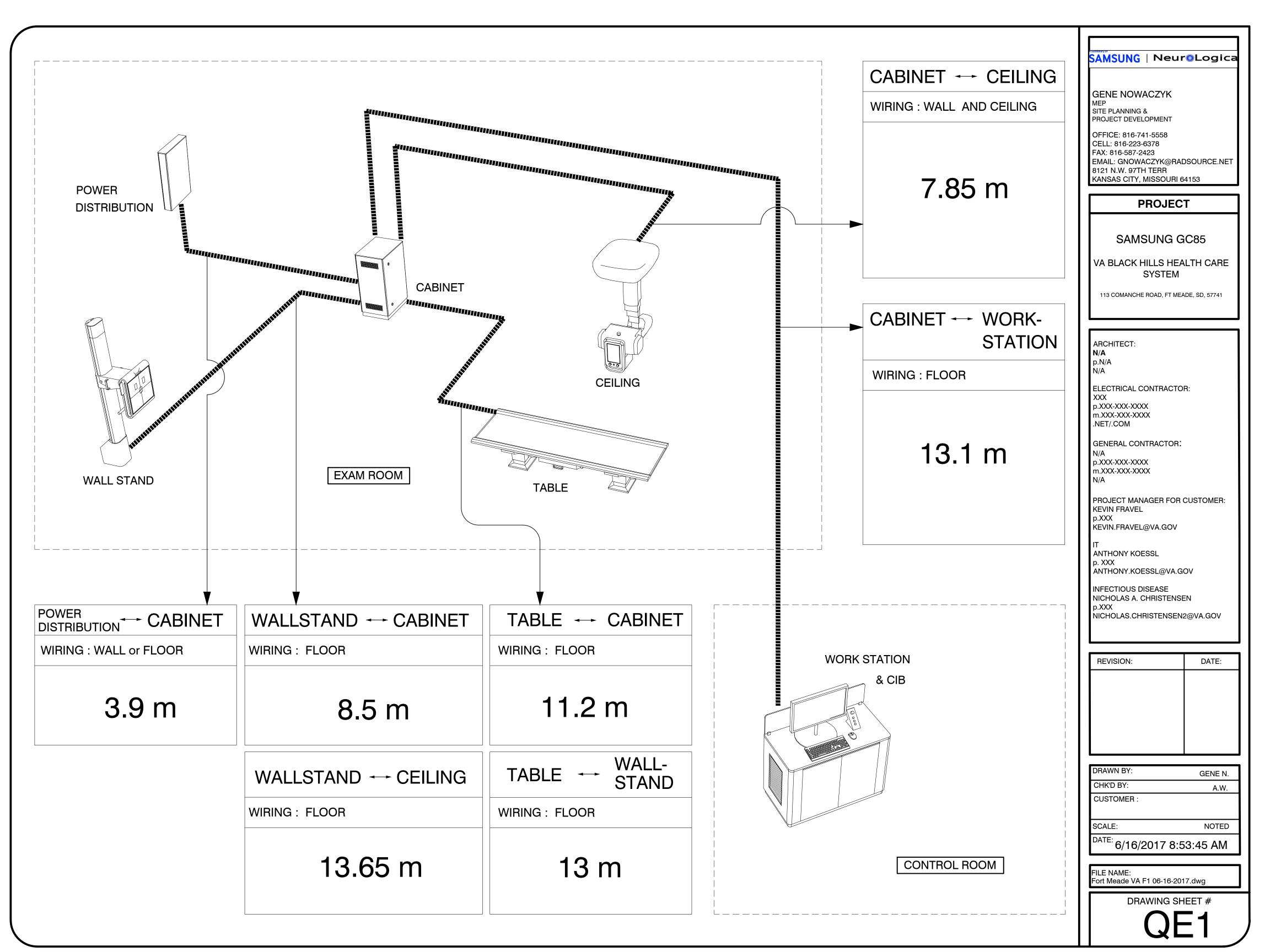
DRAWN BY:	GENE N.
CHK'D BY:	A.W.
CUSTOMER:	
SCALE:	NOTED

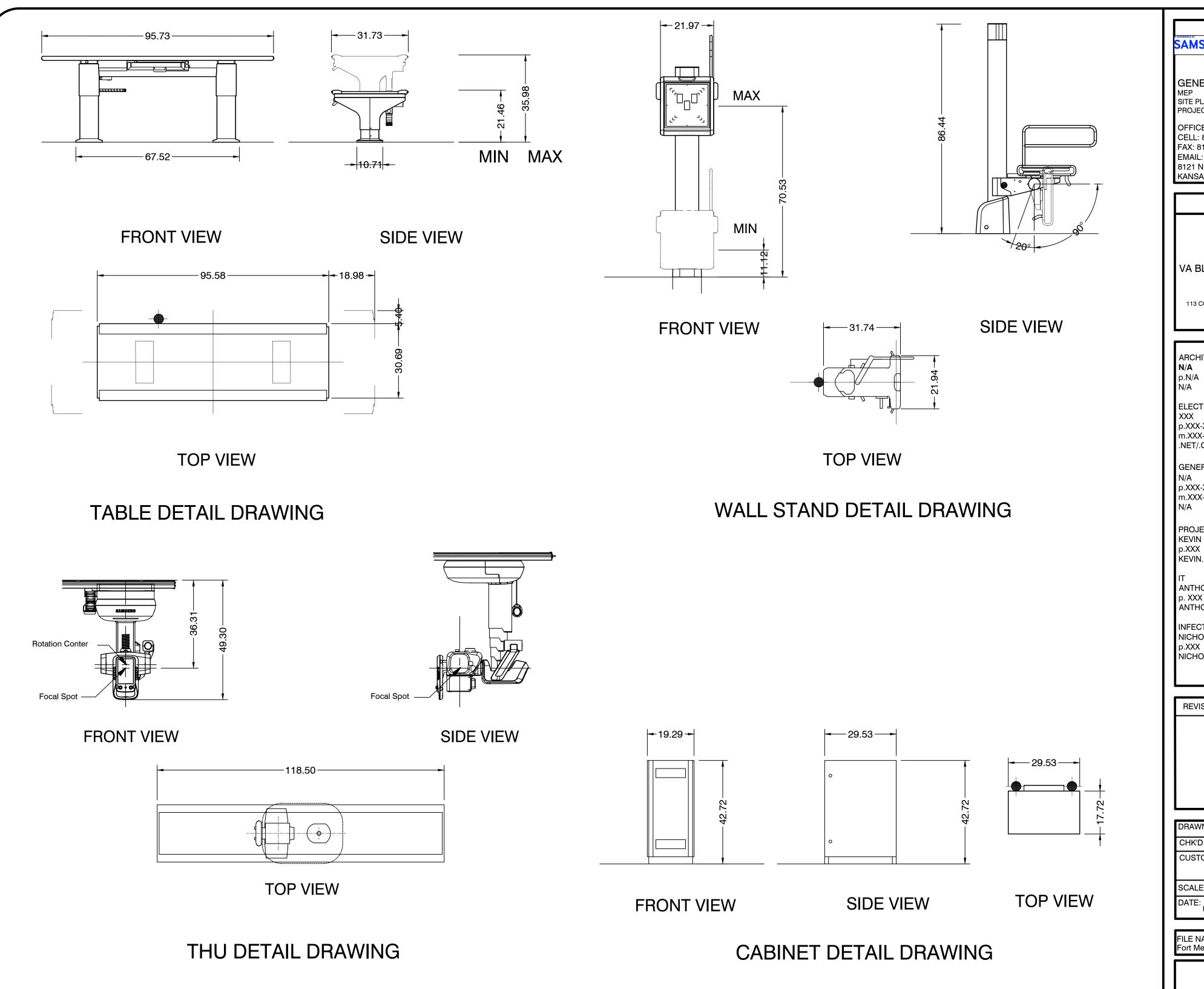
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FILE NAME: Fort Meade VA F1 06-16-2017.dwg

DRAWING SHEET #

E1.3





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SITE PLANNING &
PROJECT DEVELOPMENT

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VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT:

p.N/A

ELECTRICAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR:

p.XXX-XXX-XXXX

m.XXX-XXX-XXXX

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL

KEVIN.FRAVEL@VA.GOV

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INFECTIOUS DISEASE NICHOLAS A. CHRISTENSEN

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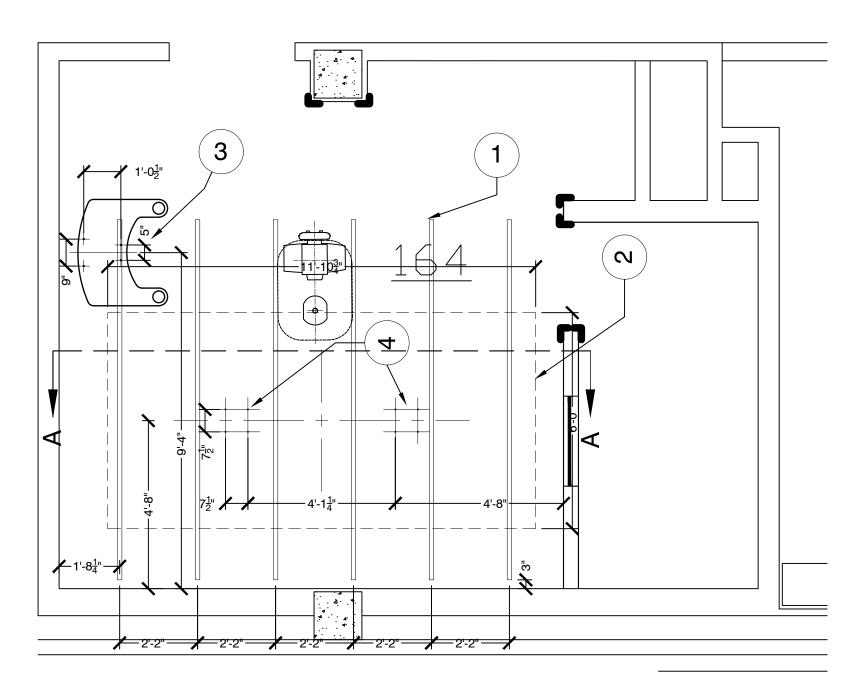
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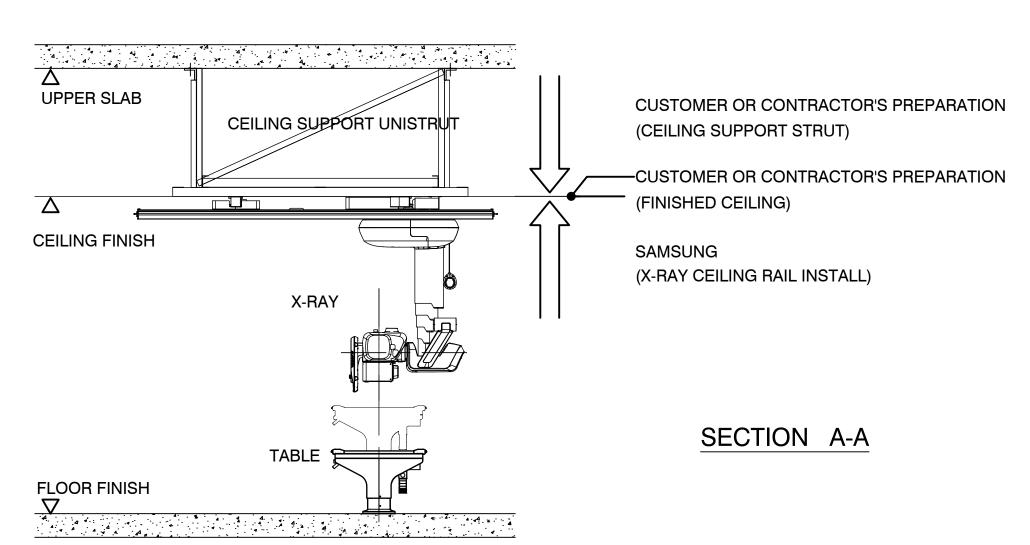
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STRUCTURAL LAYOUT SAMSUNG GC85

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

RECOMMENDED CEILING HEIGHT 9'-4.0"



SPANNING MEMBERS: STEEL CHANNEL STRUT FLUSH WITH FINISHED

CEILING. SPACED AS INDICATED ON SHEET "S1" RECOMMENDED FABRICATION DETAILS ON SHEET "S2" LOADS SHOULD BE CALCULATED FROM SHEET G1-1 (EQUIPMENT LEGEND ITEMS 4 & 5)

- AREA OF EXAM ROOM TO BE LEVELED FOR X-RAY EQUIPMENT, CONTRACTOR TO VERIFY MINIMUM SPECIFICATION OF FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1MM IN 10.0".
- CHEST STAND MOUNTING PLATE / ANCHOR BOLT PATTERN
- TABLE MOUNTING BOLT PATTERN AND LOCATION

GENERAL STRUCTURAL NOTES

FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1MM IN 10.0'.

DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.

CUSTOMERS CONTRACTOR N/A MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.

CUSTOMERS CONTRACTORS N/AMUST PROVIDE AND INSTALL ALL HARDWARE FOR "THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER SLAB AND/OR ACCESS FLOORS. THE CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CAN NOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED BY THE INSTALLER SUCH AS REBAR ETC...

IT IS THE RESPONSIBILITY OF THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM/CONTRACTOR N/A TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM/CONTRACTOR N/A IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES i.e. ELECTRICAL, PLUMBING OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS E.G. POST TENSION CABLES OR REBAR WILL INTERFERE OR COME IN CONTACT WITH SUBSURFACE PENETRATION OPERATIONS, E.G. DRILLING AND INSTALLATION OF ANCHORING PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKERS SAFETY INSTALLERS WILL ONLY PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMERS CONTRACTOR HAS VALIDATED THE SURFACE TO BE PENETRATED.

ALL CEILING MOUNTED FIXTURES SUCH AS AIR VENTS, SPRINKLERS etc. TO BE FLUSH MOUNTED OR NOT TO EXTEND MORE THEN 1/4" BELOW THE FINISHED CEILING.

ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM OR THEIR CONTRACTOR

ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY THE

GENERAL STRUCTURAL CEILING SUPPORT REQUIREMENTS

A WELDED OR FABRICATED STRUCTURAL SUPPORT IS REQUIRED FOR CEILING MOUNTED X-RAY UNITS. IT'S TOP MEMBER IS FASTENED TO THE FLOOR SLAB (OR BUILDING STEEL) ABOVE THE EXAM ROOM. THE BOTTOM OF IT'S LOWEST SPANNING MEMBER IS FLUSH WITH THE FINISHED CEILING TO WHICH THE STATIONARY CEILING TRACKS ARE FASTENED.

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GENE NOWACZYK

SITE PLANNING & PROJECT DEVELOPMENT

OFFICE: 816-741-5558 CELL: 816-223-6378 FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153

PROJECT

SAMSUNG GC85

VA BLACK HILLS HEALTH CARE SYSTEM

113 COMANCHE ROAD, FT MEADE, SD, 57741

ARCHITECT p.N/A

N/A

ELECTRICAL CONTRACTOR:

p.XXX-XXX-XXXX m.XXX-XXX-XXXX .NET/.COM

GENERAL CONTRACTOR: p.XXX-XXX-XXXX m.XXX-XXX-XXXXN/A

PROJECT MANAGER FOR CUSTOMER: KEVIN FRAVEL p.XXX

KEVIN.FRAVEL@VA.GOV

ANTHONY KOESSL

p. XXX ANTHONY.KOESSL@VA.GOV

INFECTIOUS DISEASE NICHOLAS A. CHRISTENSEN

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DATE: REVISION:

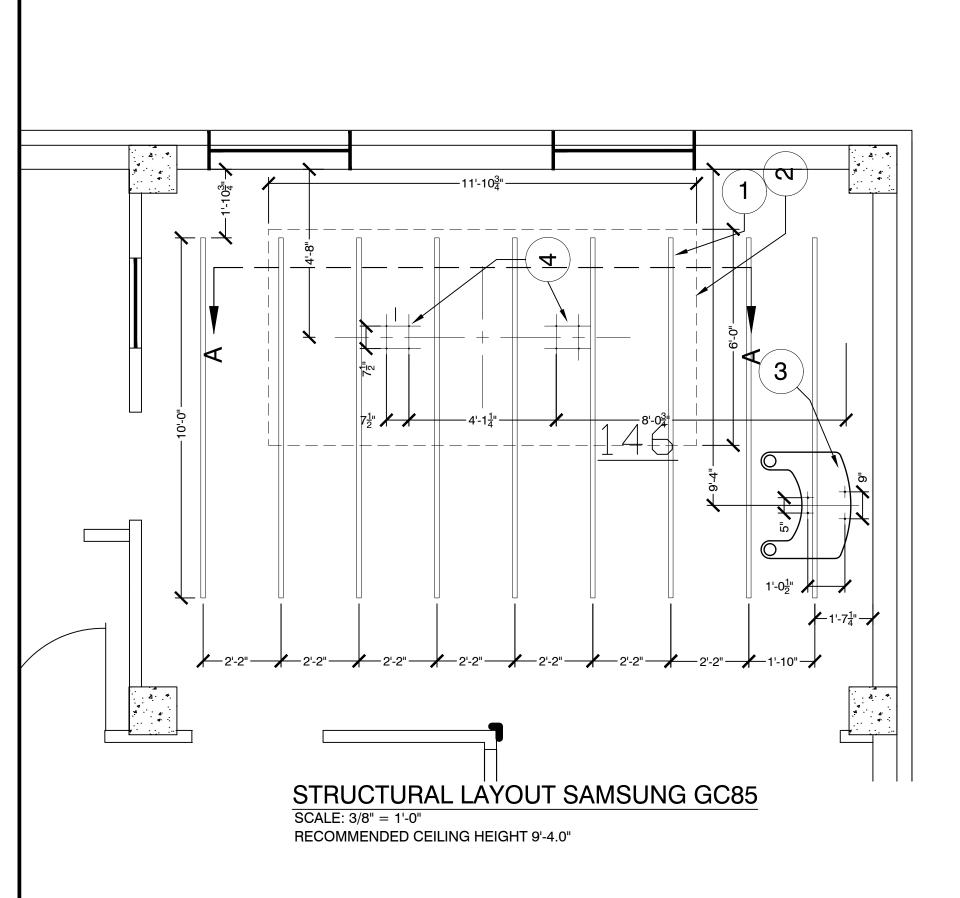
DRAWN BY: GENE N. CHK'D BY: A.W. CUSTOMER

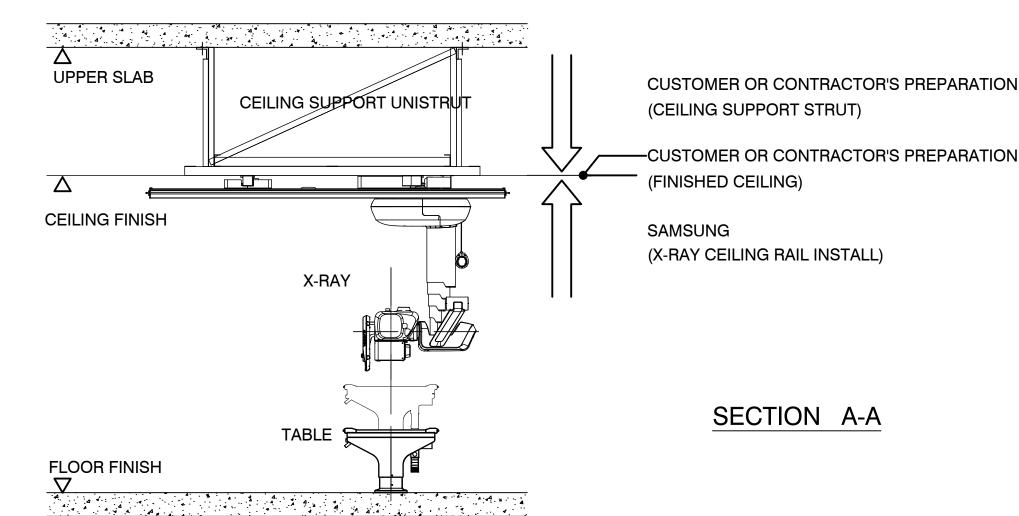
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FILE NAME:





SPANNING MEMBERS: STEEL CHANNEL STRUT FLUSH WITH FINISHED CEILING. SPACED AS INDICATED ON SHEET "S1"

RECOMMENDED FABRICATION DETAILS ON SHEET "S2" LOADS SHOULD BE CALCULATED FROM SHEET G1-1 (EQUIPMENT LEGEND ITEMS 4 & 5)

- AREA OF EXAM ROOM TO BE LEVELED FOR X-RAY EQUIPMENT, CONTRACTOR TO VERIFY MINIMUM SPECIFICATION OF FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1MM IN 10.0".
- CHEST STAND MOUNTING PLATE / ANCHOR BOLT PATTERN
- TABLE MOUNTING BOLT PATTERN AND LOCATION

GENERAL STRUCTURAL NOTES

FLOOR SLABS ON WHICH EQUIPMENT IS TO BE INSTALLED MUST BE LEVEL TO 1MM IN 10.0'.

DIMENSIONS ARE TO FINISHED SURFACES OF ROOM.

CUSTOMERS CONTRACTOR N/A MUST PROVIDE ALL PENETRATIONS IN POST TENSION FLOORS.

CUSTOMERS CONTRACTORS N/AMUST PROVIDE AND INSTALL ALL HARDWARE FOR "THROUGH THE FLOOR" ANCHORING AND/OR ANY BRACING UNDER SLAB AND/OR ACCESS FLOORS. THE CONTRACTOR MUST ALSO PROVIDE FLOOR DRILLING THAT CAN NOT BE COMPLETED BECAUSE OF AN OBSTRUCTION ENCOUNTERED BY THE INSTALLER SUCH AS REBAR ETC...

IT IS THE RESPONSIBILITY OF THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM/CONTRACTOR N/A TO PERFORM ANY FLOOR OR WALL PENETRATIONS THAT MAY BE REQUIRED. THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM/CONTRACTOR N/A IS ALSO RESPONSIBLE FOR ENSURING THAT NO SUBSURFACE UTILITIES i.e. ELECTRICAL, PLUMBING OR ANY OTHER FORM OF WIRING, CONDUITS, PIPING, DUCT WORK OR STRUCTURAL SUPPORTS E.G. POST TENSION CABLES OR REBAR WILL INTERFERE OR COME IN CONTACT WITH SUBSURFACE PENETRATION OPERATIONS, E.G. DRILLING AND INSTALLATION OF ANCHORING PERFORMED DURING THE INSTALLATION PROCESS. TO ENSURE WORKERS SAFETY INSTALLERS WILL ONLY PERFORM SURFACE PENETRATION OPERATIONS ONLY AFTER THE CUSTOMERS CONTRACTOR HAS VALIDATED THE SURFACE TO BE PENETRATED.

ALL CEILING MOUNTED FIXTURES SUCH AS AIR VENTS, SPRINKLERS etc. TO BE FLUSH MOUNTED OR NOT TO EXTEND MORE THEN 1/4" BELOW THE FINISHED CEILING.

ALL STEEL WORK AND PARTS NECESSARY TO SUPPORT CEILING MOUNTED EQUIPMENT IS TO BE SUPPLIED BY THE CUSTOMER VA BLACK HILLS HEALTH CARE SYSTEM OR THEIR CONTRACTOR

ALL UNITS THAT ARE WALL MOUNTED OR WALL SUPPORTED ARE TO BE PROVIDED WITH SUPPORTS WHERE NECESSARY. WALL SUPPORTS ARE TO BE SUPPLIED AND INSTALLED BY THE

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OFFICE: 816-741-5558 CELL: 816-223-6378 FAX: 816-587-2423 EMAIL: GNOWACZYK@RADSOURCE.NET 8121 N.W. 97TH TERR KANSAS CITY, MISSOURI 64153

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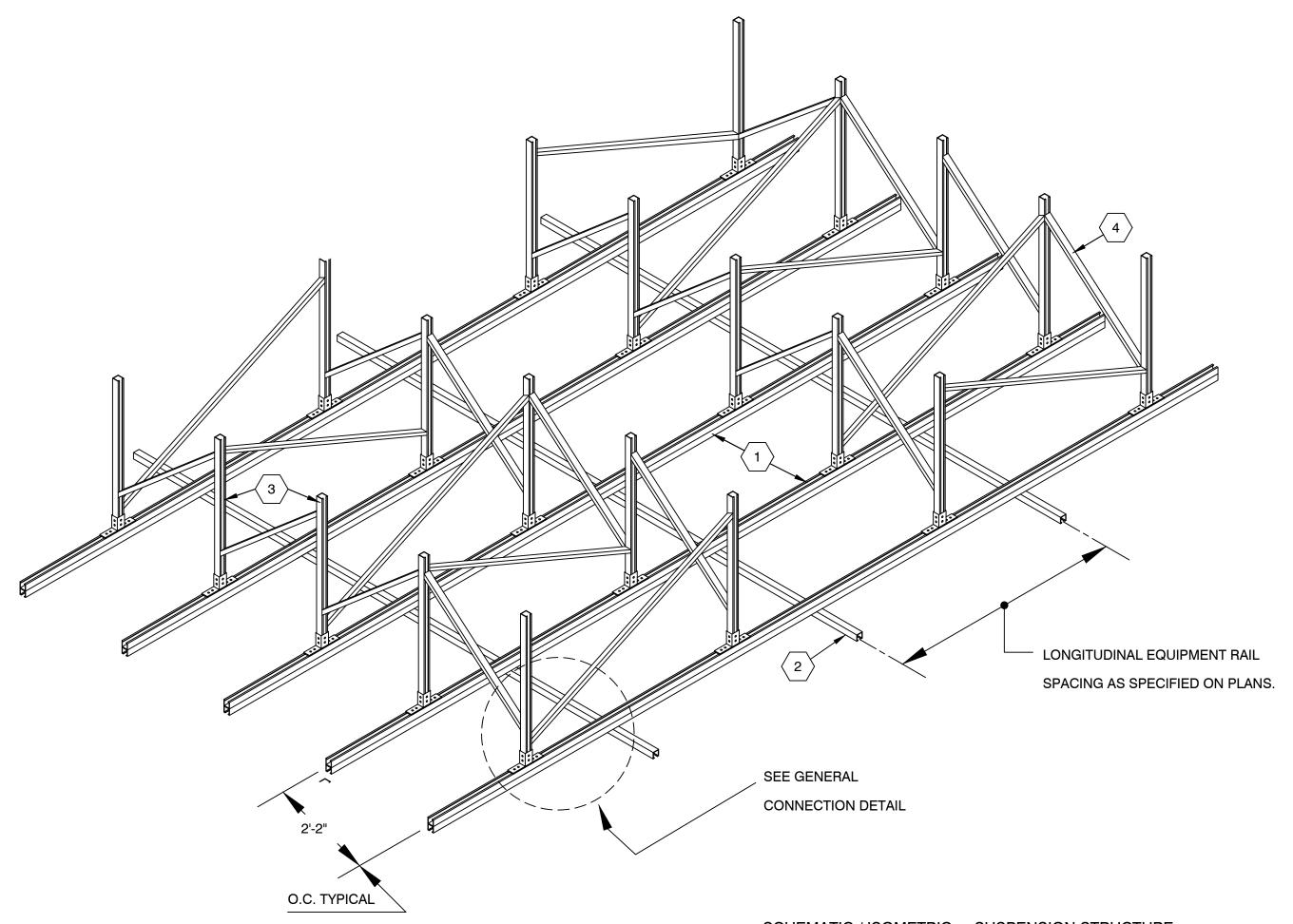
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SCALE: NOTED

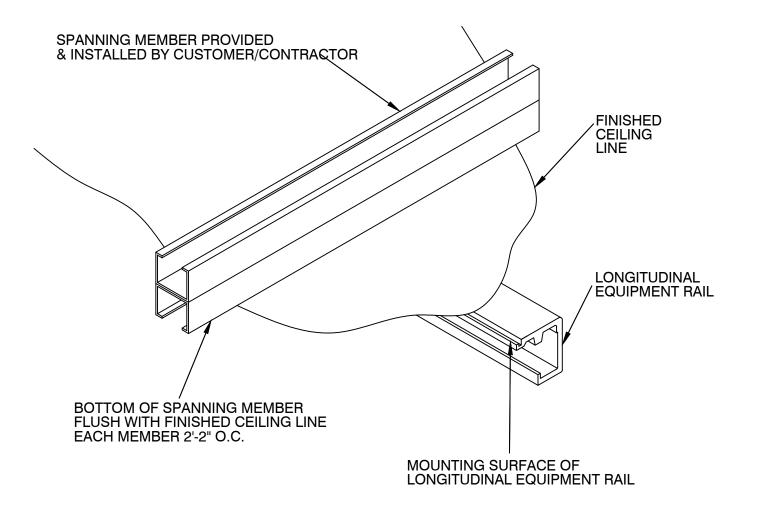
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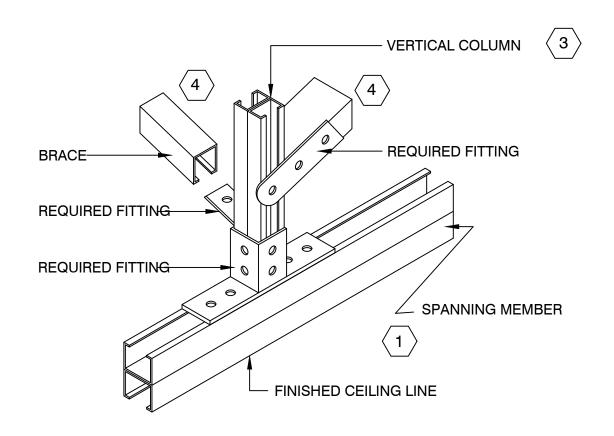
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SCHEMATIC / ISOMETRIC - SUSPENSION STRUCTURE

NO SCALE





GENERAL CEILING DETAIL
NO SCALE

GENERAL CONNECTION DETAIL NO SCALE

STRUT CHANNEL SUPPORT FRAME NOTES

RECOMMENDED UNIVERSAL STEEL STRUT CHANNEL SUPPORT FRAME.

ALLOWS FOR TRANSVERSE AND LONGITUDINAL ADJUSTMENT AT TIME OF EQUIPMENT INSTALLATION. DETERMINATION OF THE ACTUAL DESIGN SHALL BE COORDINATED AND APPROVED BY THE ENGINEER OF RECORD. ALL STEEL STRUT MEMBERS SHALL BE PROVIDED AND INSTALLED BY CUSTOMER / THEIR CONTRACTOR.

- SPANNING MEMBERS: STEEL CHANNEL STRUT FLUSH WITH FINISHED CEILING. SPACED AS INDICATED ON SHEET "S1"
- 2 LONGITUDINAL EQUIPMENT RAILS: FASTENED TO UNDERSIDE OF SPANNING MEMBERS.
- COLUMNS: STEEL CHANNEL STRUT ATTACHED TO SPANNING MEMBERS AS SHOWN ON GENERAL CEILING DETAIL. NUMBER AND LOCATION OF VERTICAL COLUMNS SHALL VARY DEPENDING ON BUILDING CONSTRUCTION.
- BRACES: STEEL CHANNEL STRUT ATTACHED TO VERTICAL COLUMNS AS SHOWN ON DETAIL.

THE ATTACHED DRAWINGS ARE FOR LAYOUT PURPOSES AND GENERAL MEANS OF FABRICATION. THE CUSTOMER'S ENGINEER OF RECORD OR AGENT SHALL PREPARE CONSTRUCTION DOCUMENTS.

THESE DRAWINGS INDICATE PLACEMENT OF THE PURCHASED EQUIPMENT, AS WELL AS DESCRIBE THE STRUCTURAL REQUIREMENTS FOR THAT EQUIPMENT. RADSOURCE WILL NOT BE RESPONSIBLE FOR OTHER DESIGNS AND CONSTRUCTION.

EVERY EFFORT HAS BEEN MADE TO ASSURE THAT THE EQUIPMENT DEPICTED ON THE ATTACHED RECOMMENDED LAYOUT, CONFIGURES THE LAYOUT PLAN TO ALLOW OPTIMUM OPERATION OF THE EQUIPMENT. THE CUSTOMER'S ENGINEER OF RECORD AND / OR AGENT SHALL BEAR SOLE RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE CODES ...

N/A SHALL PROVIDE AND INSTALL ALL MATERIALS ALONG WITH ANY OTHER FEATURES CALLED OUT IN THE PLANS.

THE CONTRACTOR N/AIS RESPONSIBLE FOR ANY FINAL PAINT OR TOUCH-UP WORK WHICH SHALL BE COMPLETED AFTER THE INSTALLATION OF THE PURCHASED SYSTEM.

EXISTING SERVICES THAT WILL NOT BE USED (PLUMBING, JUNCTION BOXES, FLOOR DRAINS ETC.) MUST BE CAPPED OR COVERED PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION.

MINIMUM CEILING HEIGHT: 9'-2" - 9'-5"

SAMSUNG | Neur@Logica

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DRAWING SHEET #

S2