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KARL STORZ ENDOSCOPY-AMERICA

STAFFORD, TEXAS



Typical Hospital
City, State
ROOM NUMBER

FACILITY REQUIREMENTS

OR1® BOOM ROOM 4K SERIES SYSTEM

STORZ
KARL STORZ — ENDOSKOPE
13803 N. PROMENADE
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Typical Hospital - City, State
OR1® BOOM ROOM 4K SERIES SYSTEM
FACILITY REQUIREMENTS:
COVER SHEET

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Customer or customer's representative has reviewed and approved the drawings which will be used as the basis for the conduit and electrical requirements for installation of the Karl Storz Integration Equipment.

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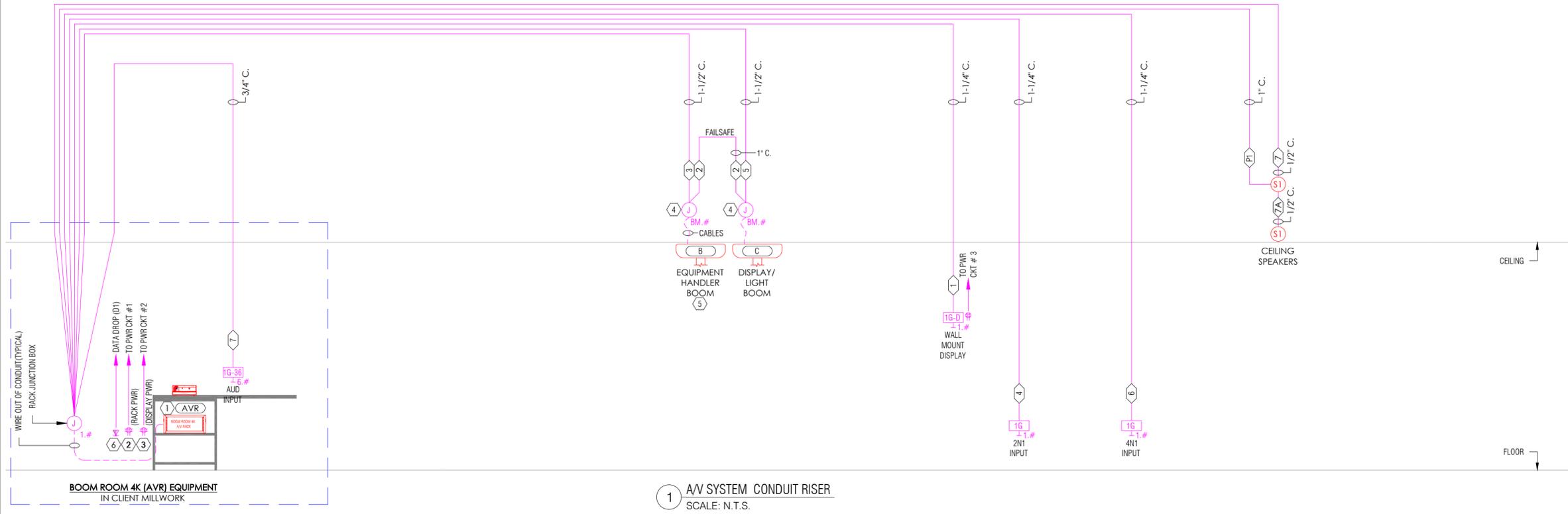
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ENG. BY:	
DATE:	11/6/2020
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01 OF 06	

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1 AV SYSTEM CONDUIT RISER
SCALE: N.T.S.

NOTE:
1. MAXIMUM 70 FT. CONDUIT LENGTH (100 FT. CABLE LENGTH) ON RUNS FROM RACK TO OR EQUIPMENT.
2. DEDICATED 4 mm² - 6 mm², MAX Ø 5,9 mm GROUND WIRE FROM GROUND PANEL TO A/V RACK PROVIDED BY C.C. (NOT STORZ).
3. A/V EQUIPMENT REQUIRES ADEQUATE AIR EXCHANGE PASSIVE OR ACTIVE FOR NOMINAL TEMPERATURE OF 90° FAHRENHEIT.

J-BOX #	SIZE (MINIMUM)	TYPE (NOTE 1 BELOW)	MOUNTING/COMMENT (NOTE 2 BELOW)
J-1.#	8" X 8" X 4" D (MINIMUM)	NEMA 1, SCREW COVER, EQUAL TO HOFFMAN A-SE SERIES	WALL, FLUSH, SIZE ACCORDING TO CONDUITS REQUIREMENTS
J-BM.#	8" X 8" X 4" D	NEMA 1, SCREW COVER, EQUAL TO HOFFMAN A-SE SERIES	ABOVE CEILING, ADJACENT TO BOOM

JUNCTION BOX SCHEDULE NOTES:
1. ALL BOXES AND COVER PLATES ARE PROVIDED BY THE CLIENTS CONTRACTOR UNLESS NOTED OTHERWISE.
2. MOUNTING REQUIREMENTS SHOWN ARE THE DEFAULT REQUIREMENTS UNLESS OTHERWISE NOTED/DETAILED.

CIRCUIT REF. #	VOLTS	AMP	DESTINATION	LOAD	ELECT LOAD (WATTS)	HEAT LOAD (BTU)
1	120 VAC	20	RECEPTACLE @ NURSE STATION	A/V RACK(BR4K)	72.25	246.52
2	120 VAC	20	RECEPTACLE @ NURSE STATION	(2)BOOM DISPLAYS	260	887.12
3	120 VAC	20	RECEPTACLES @ WALL DISPLAY(S)	(1)LCD	271	924.65
4	120 VAC	20	RECEPTACLES @ CCU/AIDA (EQUIP BOOM)	CCU/AIDA/PRINTER	898	3063.98

POWER SCHEDULE NOTES:
1. ALL A/V POWER CIRCUITS MUST COME FROM THE SAME ELECTRICAL PANEL THAT PROVIDES POWER TO THE PATIENT VICINITY OUTLETS, BOOMS AND SERVICE COLUMNS
2. ALL A/V POWER CIRCUITS ARE TO HAVE FULL SIZE DEDICATED NEUTRALS.
3. CIRCUITS SHOWN ARE FOR DEDICATED USE WITH STORZ EQUIPMENT ONLY
4. A/V CIRCUITS SHALL BE ON THE SAME PHASE AND FEED FROM THE SAME ISOLATED POWER PANEL THAT FEEDS ALL THE PATIENTS CRITICAL EQUIPMENT.
5. CIRCUIT BREAKER TRIP CURVE CHARACTERISTICS SHALL BE EQUAL TO OR GREATER THAN SQUARE-D QOB-HM SERIES.

RUN #	LOCATION	C.C. TO PROVIDE
D1	DT OUTLET AT AIDA	(2) HOSPITAL NETWORK (FOR STORZ NETWK EQUIP/VIDEO CONF.)

DATA TELECOM SCHEDULE NOTES:
1. CONNECTIONS REQUIRED FOR VIDEOCONFERENCING AND/OR VIDEO STREAMING .

SYMBOL	DESCRIPTION	BOX (NOTE 1 BELOW)	MOUNTING/COMMENT
[AP]	CEILING ACCESS PANEL	(NOTE 3 BELOW)	FOR REQUIRED ACCESS TO BOXES ABOVE CLG.
[#]	EQUIPMENT LABEL		DENOTES EQUIPMENT AT LOCATION SHOWN
[<#]	CONDUIT OR CABLE RUN #		CONDUIT/CABLE RUN REFERENCE #
[—]	CONDUIT STUB OUT		CONDUIT STUB OUT WITH BUSHING
[J]	JUNCTION BOX	SEE J-BOX SCHEDULE	SEE J-BOX SCHEDULE
[1G-H]	A/V IN/OUTPUT WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, RECEPTACLE HT. . SEE 2/AV.IP.6.2.1
[1G-36-H]	A/V IN/OUTPUT WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, 36" A.F.F. HT. . SEE 2/AV.IP.6.2.1
[1G-D-H]	A/V WALL DISPLAY WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, SEE 25/AV.IP.6.2.1
[S1]	CEILING SPEAKER, TYPE 1	BACK CAN SUPPLIED BY STORZ	CEILING, FLUSH, MOUNTED BY C.C. (NOTE 9)
[DP]	DUPLEX POWER RECEPTACLE	A/R, TYPICAL 1G	WALL, FLUSH, RECEPTACLE HT.
[QP]	QUAD POWER RECEPTACLE	A/R, TYPICAL 2G	WALL, FLUSH, RECEPTACLE HT.
[DT]	DATA/TELEPHONE BOX	A/R, TYPICAL 1G	WALL, FLUSH, RECEPTACLE HT. (NOTE 6)

GENERAL NOTES & ABBREVIATIONS

GENERAL NOTES:
1. THESE DRAWINGS ARE FOR REQUIREMENTS REFERENCE ONLY. NOT FOR CONSTRUCTION.
2. SUPPLY AND INSTALLATION OF ALL CONDUIT, POWER CIRCUITS, BACK BOXES, ELECTRICAL DEVICES, ELECTRICAL WIRING IS TO BE PROVIDED BY THE CLIENTS ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
3. C.C. TO PROVIDE ADEQUATE VENTILATION FOR NOMINAL A/V EQUIPMENT TEMPERATURE OF 90° FAHRENHEIT.

GENERAL CONDUIT & BOX NOTES
1. C.C. TO PROVIDE BLANK COVER PLATES FOR ALL JUNCTION BOXES.
2. CC. TO PROVIDE CABLE PROTECTION BUSHINGS ON ALL BOXES AND CONDUIT STUB-OUTS.
3. ALL CONDUIT TO BE MINIMUM 3/4" METALLIC U.N.O.
4. MAXIMUM LENGTH FOR FLEX CONDUIT IF USED FOR STORZ A/V CABLING IS 25 FEET.
5. EXTRA PULL BOX IS REQUIRED AFTER BENDS TOTAL 270°
6. CONDUITS TO BE DE-BURRED, CLEANED, CAPPED, AND FURNISHED WITH NYLON PULL ROPE.
7. CONDUIT STUB-OUTS, JUNCTION BOXES, AND OUTLETS SHALL BE SUITABLY LABELED FOR IDENTIFICATION OF FUNCTION, J-BOX #, AND/OR CONDUIT NUMBER.

ABBREVIATIONS:
A.F.F. = ABOVE FINISHED FLOOR
A/R = AS REQUIRED
B.C.P. = BLANK COVER PLATE
B.F.C. = BELOW FINISHED CEILING
C.C. = CLIENTS CONTRACTOR (NOT BY KARL STORZ)
C.P. = COVER PLATE
CRE = CONTROL ROOM EQUIPMENT
HT. = HEIGHT
I.G. = ISOLATED GROUND (TECHNICAL GROUND)
I.P. = ISOLATED PWR. (UNGROUND NEUTRAL PWR)

NSE = NURSE STATION EQUIPMENT
NSTP = NURSE STATION TOUCH PANEL
N/A = NOT APPLICABLE
N/R = NOT REQUIRED
N/U = NOT USED
O.R. = OPERATING ROOM
RJB = RACK JUNCTION BOX
S.F. = STERILE FIELD
T.B.D. = TO BE DETERMINED
U.N.O. = UNLESS NOTED OTHERWISE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	BOX (NOTE 1 BELOW)	MOUNTING/COMMENT
[AP]	CEILING ACCESS PANEL	(NOTE 3 BELOW)	FOR REQUIRED ACCESS TO BOXES ABOVE CLG.
[#]	EQUIPMENT LABEL		DENOTES EQUIPMENT AT LOCATION SHOWN
[<#]	CONDUIT OR CABLE RUN #		CONDUIT/CABLE RUN REFERENCE #
[—]	CONDUIT STUB OUT		CONDUIT STUB OUT WITH BUSHING
[J]	JUNCTION BOX	SEE J-BOX SCHEDULE	SEE J-BOX SCHEDULE
[1G-H]	A/V IN/OUTPUT WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, RECEPTACLE HT. . SEE 2/AV.IP.6.2.1
[1G-36-H]	A/V IN/OUTPUT WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, 36" A.F.F. HT. . SEE 2/AV.IP.6.2.1
[1G-D-H]	A/V WALL DISPLAY WALL BOX	4S, TR-1G, 1G-B.C.P.	WALL, FLUSH, SEE 25/AV.IP.6.2.1
[S1]	CEILING SPEAKER, TYPE 1	BACK CAN SUPPLIED BY STORZ	CEILING, FLUSH, MOUNTED BY C.C. (NOTE 9)
[DP]	DUPLEX POWER RECEPTACLE	A/R, TYPICAL 1G	WALL, FLUSH, RECEPTACLE HT.
[QP]	QUAD POWER RECEPTACLE	A/R, TYPICAL 2G	WALL, FLUSH, RECEPTACLE HT.
[DT]	DATA/TELEPHONE BOX	A/R, TYPICAL 1G	WALL, FLUSH, RECEPTACLE HT. (NOTE 6)

SYMBOL LEGEND NOTES

1. ALL BOXES AND COVER PLATES ARE PROVIDED BY THE CLIENTS CONTRACTOR UNLESS NOTED OTHERWISE.
2. MOUNTING REQUIREMENTS SHOWN ARE THE DEFAULT REQUIREMENTS UNLESS OTHERWISE NOTED/DETAILED.
3. BOXES/OUTLETS/RECEPTACLES LOCATED ABOVE THE CEILING MUST BE WITHIN 18 INCHES OF THE CEILING AND BE ACCESSIBLE FROM THE SPACE BELOW. CLIENT / C.C. TO PROVIDE SUITABLE CEILING ACCESS PANELS AT DEVICE LOCATIONS. (ACCESS PANELS EQUAL TO WILLIAMS BROS. MODEL WBFRC).
4. "RECEPTACLE HEIGHT" DENOTES MOUNTING HEIGHT OF REGULAR RECEPTACLES SPECIFIED FOR THIS PROJECT.
5. "SWITCH HEIGHT" DENOTES MOUNTING HEIGHT OF REGULAR SWITCHES SPECIFIED FOR THIS PROJECT.
6. SEE DATA/TELECOM SCHEDULE FOR CLIENT CABLING REQUIREMENTS.
7. SEE STORZ STREAMCONNECT SYSTEM REQUIREMENTS FOR CLIENT REQUIREMENTS.
8. SEE STORZ CompleteView SYSTEM REQUIREMENTS FOR CLIENT REQUIREMENTS.
9. C.C. TO SUSPEND SPEAKER ASSEMBLY FROM STRUCTURE ABOVE CEILING.
10. BOX/OUTLET NUMBER: "1.#" FIRST NUMBER DENOTES BOX/OUTLET NUMBER. "#" DENOTES ROOM SEQUENCE.

BOX TYPES:
1G = SINGLE GANG METALLIC BACK BOX (MINIMUM DEPTH 3-1/2").
2G = 2 GANG METALLIC BACK BOX (MINIMUM DEPTH 3-1/2").
4G = 4 GANG METALLIC BACK BOX (MINIMUM DEPTH 3-1/2").
4S = 4" X 4" SQUARE BACK BOX WITH TRIM RING AS NOTED (MINIMUM DEPTH 3-1/2").
TR-1G = TRIM RING FOR MOUNTING 1 GANG PLATE.
TR-2G = TRIM RING FOR MOUNTING 2 GANG PLATE.
#G-B.C.P. = BLANK COVER PLATE, METALLIC, GANG SIZE AS DENOTED BY #.

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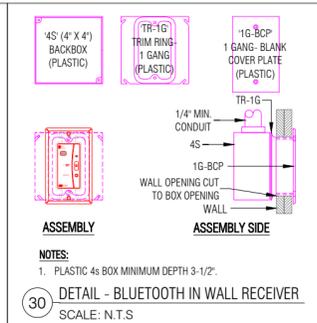
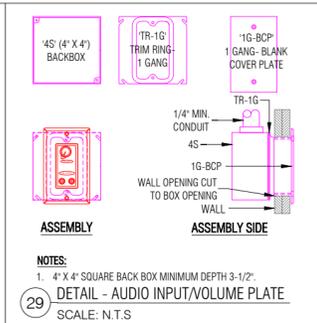
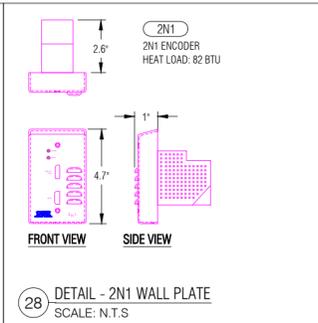
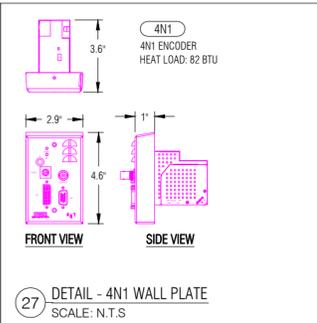
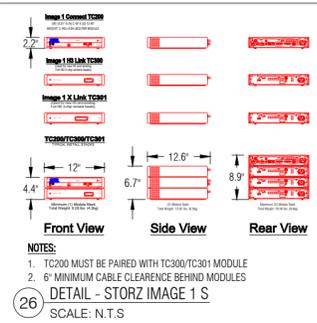
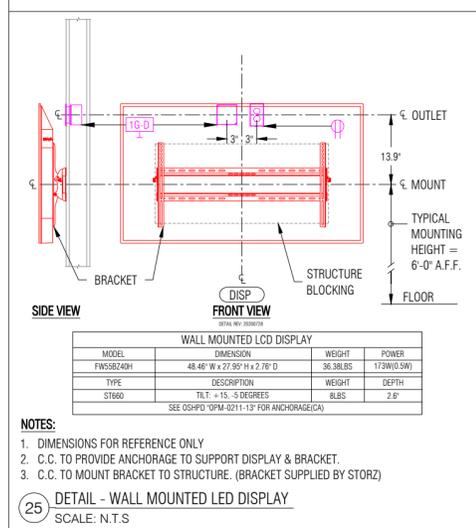
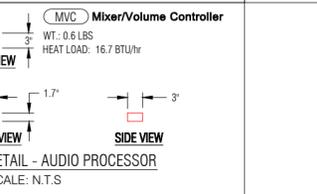
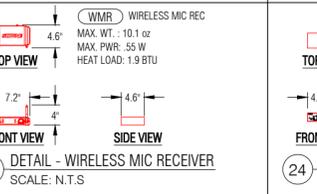
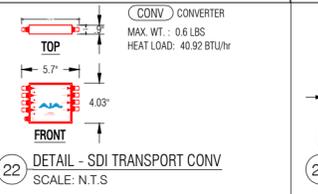
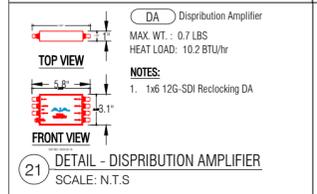
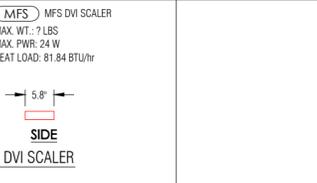
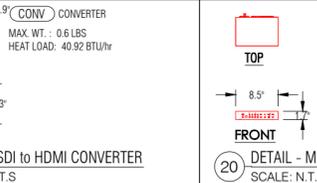
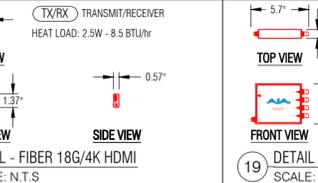
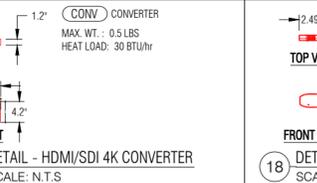
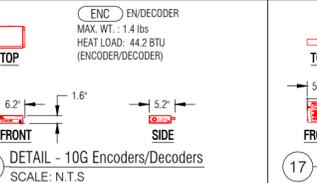
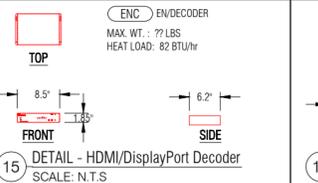
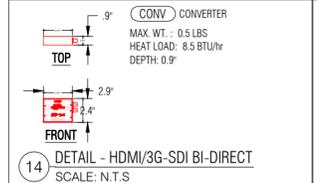
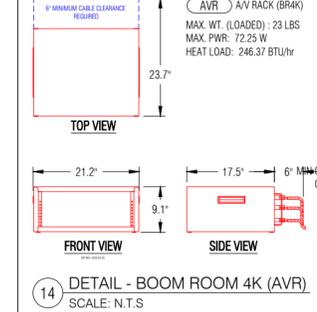
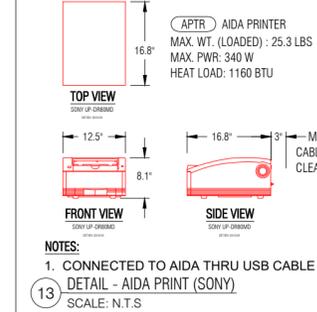
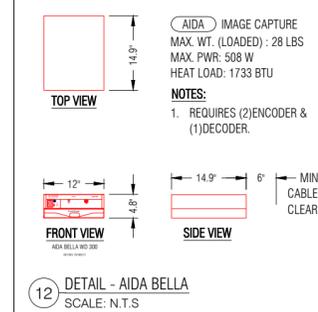
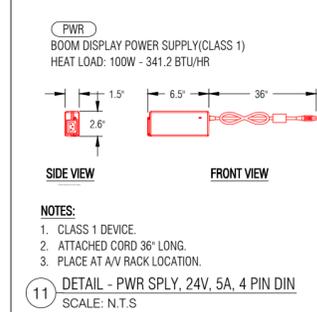
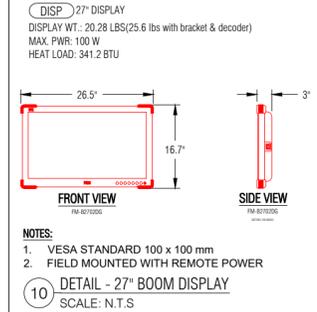
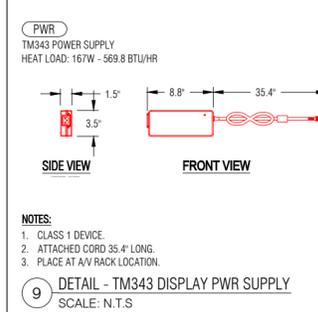
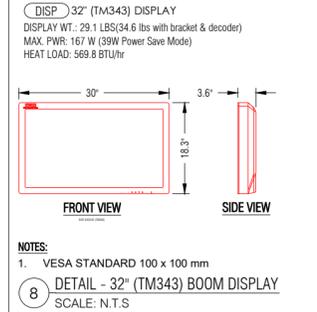
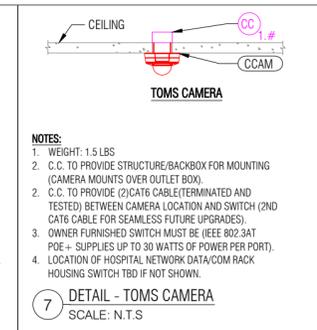
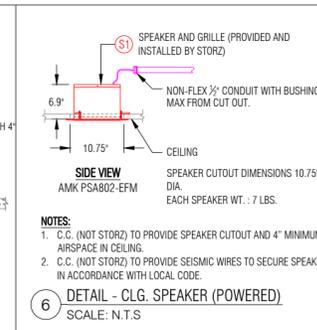
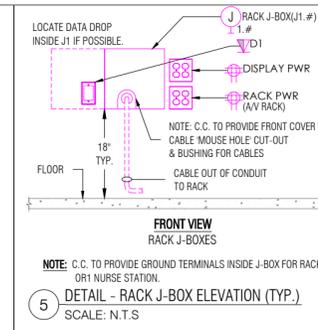
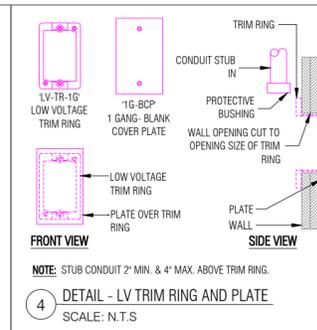
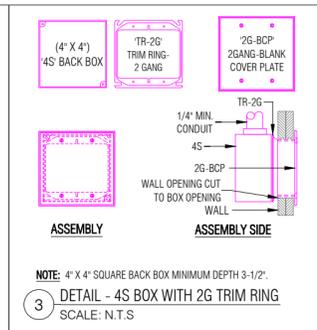
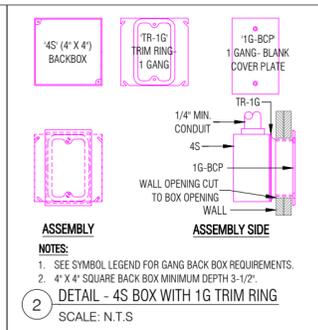
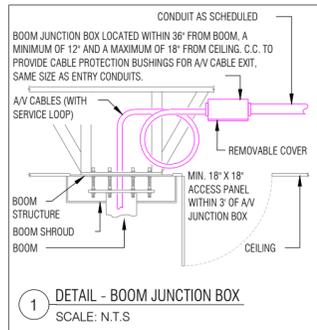
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DRAWING NUMBER	BR.4K. 6.1.1 02 OF 06

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FACILITY REQUIREMENTS:
REQUIREMENTS DETAILS #1

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A/V EQUIPMENT REQUIRES ADEQUATE AIR EXCHANGE PASSIVE OR ACTIVE FOR NOMINAL TEMPERATURE OF 90° FAHRENHEIT.

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Typical Hospital - City, State
OR1® BOOM ROOM 4K SERIES SYSTEM
 FACILITY REQUIREMENTS:
OVERALL FLOOR PLAN - Partial

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NOT SHOWN

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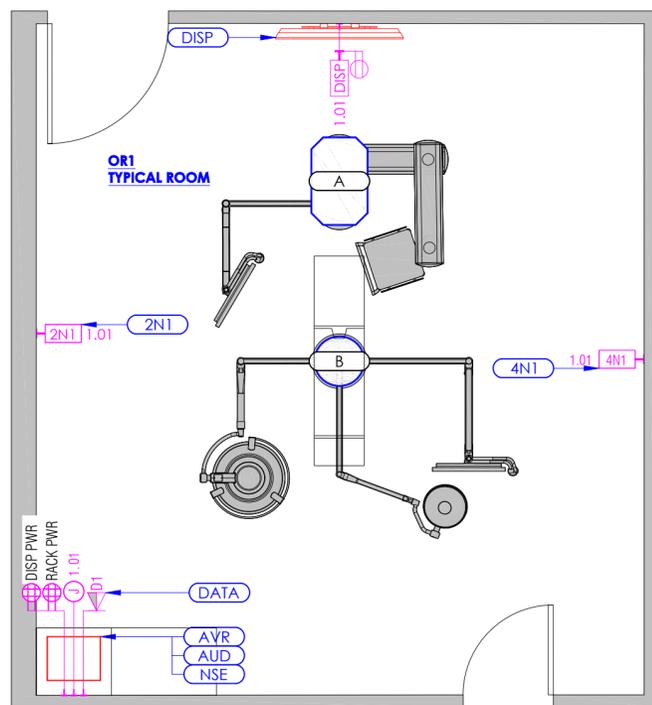
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JOB NO.
GENERIC

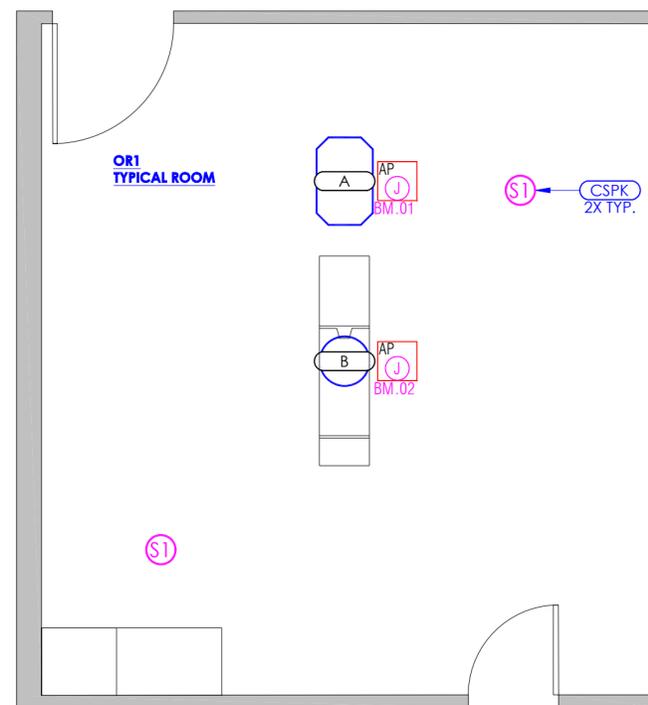
DRAWING NUMBER
BR.4K.
6.3.1
 04 OF 06

1 OVERALL FLOOR PLAN - PARTIAL
 SCALE: 1/8" = 1'-0"
 BACKGROUND REF.: *.DWG RECEIVED 00/00/2020

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1 FLOOR PLAN - ROOM NUMBER
SCALE: N.T.S
BACKGROUND REF.: *.DWG RECEIVED 00/00/2020



2 REFLECTED CEILING PLAN - ROOM NUMBER
SCALE: N.T.S
BACKGROUND REF.: *.DWG RECEIVED 00/00/2020

AV EQUIPMENT SCHEDULE

SYMBOL	LOCATION/DEVICE	EQUIPMENT BY STORZ	EQUIPMENT BY OTHERS
2N1	WALL MOUNTED	(1) AUX INPUT 2N1(DisplayPort/HDMI) PLATE	
4N1	WALL MOUNTED	(1) AUX INPUT 4N1(CV/SV/VGA/DVI) PLATE	
A	EQUIPMENT BOOM (STORZ EQUIPMENT)	(1) STORZ CCU INPUT PLATE, (1) AUX INPUT (CV/SV/SDI) PLATE, (1) 27" FLAT PANEL DISPLAY	DISPLAY MOUNT
B	DISPLAY/LIGHT BOOM	(1) 27" FLAT PANEL DISPLAY	DISPLAY MOUNT/SURGICAL LIGHT
AVR	4K VIDEO PROCESSOR	(1) 4K VIDEO PROCESSOR, (2)FLAT PANEL DISPLAY POWER SUPPLIES	
NSE	NURSE'S STATION EQUIPMENT CABINET	(1) AIDA (RECORDING DEVICE), (1) MEDICAL PRINTER (1) LOCAL COMPUTER INPUT,	HIS COMPUTER
AUD	NURSE STATION	(1) MP3 AUDIO INPUT	
CSPK	CEILING MOUNTED	(4) CEILING SPEAKERS & BACKBOXES	BACKBOX MOUNTING
DISP	WALL MOUNTED	(FOR DATA TELECOM CONNECTION)	SEE DATA / TELECOM SCHEDULE
DAT	WALL MOUNTED	(1) LARGE FORMAT FLAT PANEL DISPLAY	BRACKET ANCHORAGE BY C.C. (NOT STORZ)

AV EQUIPMENT SCHEDULE NOTES:
1. EQUIPMENT LISTED IS FOR COORDINATION PURPOSES ONLY. (BASED ON STORZ'S UNDERSTANDING OF EQUIPMENT & LOCATIONS). REFER TO CONTRACT SPECIFICATIONS FOR ACTUAL REQUIREMENTS.

FOR COORDINATION ONLY - NOT FOR CONSTRUCTION

Typical Hospital - City, State
OR1® BOOM ROOM 4K SERIES SYSTEM
FACILITY REQUIREMENTS:
FLOOR PLAN & RCP - ROOM NUMBER
CONFIDENTIAL - NOT TO BE DISTRIBUTED OUTSIDE OF KSEA, INC.
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REVISIONS:	DATE:
01 REV. 0	3/31/2022
(INITIAL RELEASE)	

DRAWN BY: SSatre
ENG. BY:
DATE: 11/6/2020
FILE NAME: 00-BR4K
PLT SC N.T.S
BR4K_20200521

CHK. BY: DATE:
JOB NO.
GENERIC
DRAWING NUMBER
**BR.4K.
6.4.01
05 OF 06**

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Typical Hospital - City, State
OR1® BOOM ROOM 4K SERIES SYSTEM
FACILITY REQUIREMENTS:
KSIS PROJECT MANAGEMENT REQUIREMENTS
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KARL STORZ SITE READINESS CHECKLIST

OVERALL SITE STATE:

Upon KARL STORZ'S arrival at the facility, the site must be clean with all site prep work completed, the boom equipment installed, and the nurse station millwork complete. All owner furnished equipment must be available for installation and testing.

Although other trades may work in the same space, priority must be given to the floor space requirements of staging equipment and materials and the ability of the crew to maintain their workflow.

GENERAL SITE PREP WORK:

- All required conduits must be marked and installed with pull strings.
- All facility provided network cables must be installed and tested.
- All electrical outlets on equipment handlers, nurse millwork and a/v rack location must have power.
- Permanent power must be energized.
- Ceiling speaker cutouts must be prepared.
- Wall mounts for flat panel displays and touch panels must be installed.
- All network data drops need to be installed.

MILLWORK:

- Millwork must be installed with proper venting for calculated heat loads per the KARL STORZ drawings.
- Cover plate of large junction box behind av rack has mouse hole cut in proper location.
- Facility provided carpenter must be available for any grommet placement.

BOOM EQUIPMENT:

- Boom equipment must be installed and available for cabling by the KARL STORZ team.
- Boom equipment must be powered.
- In-Light Camera boxes must be available.

OWNER FURNISHED EQUIPMENT:

- OR equipment such as C-ARMS, Ultrasound, CT Machines and Microscopes must be available for testing and integration.
- Computers and workstations must be available for cable integration and testing.
- Videoconference telephone or network connections must be live.
- If applicable, all lighting control equipment must be installed and tested by the facility.

ENVIRONMENTAL CONDITIONS:

- Site is safe to work.
- If site has specific attire requirements and/or PPE requirements, the customer must provide access to appropriate attire and PPE for the crew.
- The OR must be clean and dust free.
- Delivery access must be available.
- Area to store all KARL STORZ materials for duration of installation identified.
- Trash disposal must be available.
- All safety training must be scheduled prior to arrival.
- Any sub-contractor conflicts need to be addressed and conflicting schedules need to be addressed to minimize KARL STORZ downtime.
- Adequate working hours must be available to the product deployment crew.

Use this document to ensure that all teams and spaces are aligned for the deployment of your KARL STORZ integrated operating room.

Failure to meet readiness can impact your installation schedule.

Thank you for your partnership,

KARL STORZ

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✓ REV. 0	3/31/2022
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