

LIKO GENERAL NOTES

- A. LIKO PATIENT LIFT SYSTEMS MUST BE INSTALLED BY LIKO-CERTIFIED INSTALLERS
- B. REFER TO LIKO INSTALLATION HANDBOOK FOR INSTALLATION PARAMETERS.
- C. REFER TO LIKO INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PROCEDURES.

ARCHITECTURAL NOTES

- A. SEALED ENGINEERING DRAWINGS AND CALCULATIONS BY LICENSED ENGINEER FOR THE PROPOSED PATIENT LIFTS "BY OTHERS".
- B. ANY MODIFICATIONS TO CURTAIN TRACK(S) BY "OTHERS", IF NEEDED.
- C. ANY RELOCATION SPRINKLER HEADS AND/OR SMOKE ALARMS BY "OTHERS", IF NEEDED.
- D. ANY RELOCATION TV(S), CABINETRY AND/OR OVERHEAD LIGHTING FIXTURES BY "OTHERS", IF NEEDED.
- E. ANY RELOCATION OF SERVICE BOOMS/ARMS AND/OR SERVICE ACCESS PANELS BY "OTHERS", IF NEEDED.
- F. ANY REPAIR OR REPAINTING TO WALL, CEILING AND/OR FLOOR MOLDING "BY OTHERS".
- G. ANY MODIFICATIONS TO NEW/ EXISTING DOOR HEADERS FOR ROOM-TO-ROOM CONTINUOUS RAIL PASS-THROUGH SYSTEMS BY "OTHERS", IF NEEDED.
- H. SUGGESTED LOCATION FOR LIKO CHARGING/DOCKING STATION SHOWN ON LAYOUT DRAWINGS.
PREFERRED LOCATIONS TO BE DETERMINED AND VERIFIED IN THE FIELD AT THE TIME OF INSTALLATION.
BACKING/REINFORCEMENT IN WALL MAY BE REQUIRED.
- I. FOR PATIENT TRANSFER LIFTING SIDE, PROVIDE MINIMUM OF 4'-0" CLEAR AREA FROM THE CENTER OF BED TO TRANSFER AREA BESIDE THE BED.
- J. WHEN RECESSING THE LIKO RAILS, IT IS NOT ACCEPTABLE TO DRILL INTO THE RECESSED LIKO RAILS FOR THE PURPOSE OF MOUNTING THE CEILING OR OTHER EQUIPMENT TO THE LIKO RAILS. CEILING SHOULD BE SUPPORTED INDEPENDENT OF THE LIKO RAILS.
DRILLING INTO THE LIKO RAILS MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE LIKO LIFT SYSTEM.
IF THE CEILING IS ATTACHED TO THE RAIL THEN THE NORMAL DEFLECTION OF THE RAIL UNDER LOAD MAY DAMAGE THE CEILING.

STRUCTURAL NOTES

- A. REFERENCE LIKO POINT LOAD INFORMATION REGARDING PATIENT LIFT LOADING APPLIED TO THE BUILDING STRUCTURE. SEE BELOW.
- B. IF REQUIRED, SEALED ENGINEERING DRAWINGS AND CALCULATIONS BY LICENSED ENGINEER FOR THE PROPOSED PATIENT LIFTS "BY OTHERS".
- C. METHOD OF ATTACHMENT TO BUILDING STRUCTURE TO BE DETERMINED AND DESIGNED BY "OTHERS".
REFER TO LIKO LAG BOLT POLICY FOR REQUIRED INFORMATION (WHERE REQUIRED)
- D. REFER TO APPROVED STRUCTURAL ENGINEERING DETAILS (BY "OTHERS") FOR METHOD OF ATTACHMENT.
- E. EVALUATION OF THE EXISTING BUILDING STRUCTURE IS NOT INCLUDED.
- F. THE PROPOSED PATIENT LIFT DESIGNS ASSUMES THE BUILDING STRUCTURE IS CAPABLE OF WITHSTANDING ALL LOAD IMPOSED UPON IT BY THE EQUIPMENT AND THE ASSUMED DYNAMIC FORCES WITHOUT ADDITIONAL MODIFICATION TO THE STRUCTURE.
- G. DESIGN, ENGINEERING, AND CALCULATIONS VERIFYING THE ABILITY OF THE BUILDING STRUCTURE TO WITHSTAND ALL THE LOAD FORCES OF THE PATIENT LIFT SYSTEM, IN ITS ENTIRETY, IS THE RESPONSIBILITY OF OTHERS.
- H. IF APPLICABLE, DEVELOPMENT OF SUBMITTAL PACKAGE FOR OSHPD FOR REVIEW AND APPROVAL "BY OTHERS".
- I. ANY REPAIR TO FIRE-PROOFING MATERIAL COVERING STRUCTURAL STEEL "BY OTHERS".
(INSTALLERS MAY NEED TO REMOVE SECTIONS OF FIRE-PROOFING MATERIAL TO INSTALL LIKO SUPPORTS AND BRACING)

ELECTRICAL NOTES

- A. **IN-RAIL CHARGING (IRC):** ALL PATIENT LIFT MOTORS TO BE CHARGED UTILIZING LIKO'S CONTINUOUS IN-RAIL CHARGING (IRC) FEATURE.
 - IN-RAIL CHARGING REQUIRES A STANDARD 110V ELECTRICAL RECEPTACLE NEAR THE PRIMARY RAIL(S) IN ORDER TO POWER THE BATTERY CHARGER(S) FOR THE PATIENT LIFT MOTOR(S).
 - ELECTRICAL RECEPTACLES, ALONG WITH THE IRC CHARGER'S TRANSFORMER, FLEXIBLE CORDS & CABLES SHOULD BE INSTALLED BELOW FINISHED CEILING UNLESS INSTALLATION ABOVE CEILING IS PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC), AND/OR STATE AND LOCAL ELECTRICAL CODE. COMPLIANCE TO THE ELECTRICAL CODES, INCLUDING LABOR AND MATERIALS REQUIRED, IS THE RESPONSIBILITY OF "OTHERS" - NOT HILL-ROM.
 - **NOTE:** A SINGLE DUPLEX RECEPTACLE CAN BE USED TO CONNECT TWO (2) IRC BATTERY CHARGERS IF NEEDED.
 - ANY NEW ELECTRICAL RECEPTACLES / ELECTRICAL ENGINEERING BY "OTHERS".
 - ANY WIREMOLD COVERINGS FURNISHED AND INSTALLED BY "OTHERS".
 - **OPTIONAL "HARD-WIRED" CONNECTION FOR LIKOGUARD LIFT MOTOR CHARGING.**
REQUIRES CERTIFIED ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS TO BUILDING POWER.
THIS HOOK-UP IS NOT INCLUDED AS PART OF THE LIKO-CERTIFIED INSTALLER'S SCOPE OF WORK. THIS WORK TO BE PERFORMED BY "OTHERS".
REFER TO INSTALLATION INSTRUCTIONS FOR ELECTRICAL DIAGRAM AND ADDITIONAL INSTRUCTIONS.
ELECTRICAL RECEPTACLES, ALONG WITH THE IRC CHARGER'S TRANSFORMER, FLEXIBLE CORDS & CABLES SHOULD BE INSTALLED BELOW FINISHED CEILING UNLESS INSTALLATION ABOVE CEILING IS PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC), AND/OR STATE AND LOCAL ELECTRICAL CODES. COMPLIANCE TO THE ELECTRICAL CODES IS THE RESPONSIBILITY OF "OTHERS" - NOT HILL-ROM.
NOTE: HARD-WIRED CONNECTION FOR LIKORALL LIFT MOTOR IS NOT AVAILABLE.

LIKO POINT LOAD INFORMATION

LIKORALL 250 LIFT MOTOR - 550LBS MAX. CAPACITY (EACH)
MAXIMUM POINT LOAD FOR EACH SUPPORT PENDANT LOCATION IS BASED UPON THE MAXIMUM CAPACITY OF THE LIFT MOTOR + ESTIMATED WEIGHT OF THE EQUIPMENT AT THE SUPPORT PENDANT ATTACHMENT LOCATION.

STANDARD LIFT SYSTEM:

STANDARD LIFT SYSTEM INCLUDES ANY STRAIGHT RAIL OR TRAVERSE RAIL SYSTEM WITH ONE (1) LIFT MOTOR.

ESTIMATED WEIGHT OF EQUIPMENT AT PENDANT SUPPORT LOCATION FOR STANDARD LIFT SYSTEM = 60LBS
(INCLUDES LIFT MOTOR, RAILS, PENDANTS, TRAVERSE RAIL CARRIER, ETC.)

LIFT MOTOR(LBS)	EQUIPMENT(LBS)	ALLOWABLE LOAD(LBS)
550	60	610

BARIATRIC LIFT SYSTEM:

BARIATRIC (ULTRATWIN) LIFT SYSTEM INCLUDES ANY DUAL STRAIGHT RAIL OR TRAVERSE SYSTEM WITH (2) LIFT MOTORS

ESTIMATED WEIGHT OF EQUIPMENT AT PENDANT SUPPORT LOCATION FOR BARIATRIC LIFT SYSTEM = 100lbs
(INCLUDES LIFT MOTORS, RAILS, PENDANTS, TRAVERSE RAIL CARRIERS, ETC.)

LIFT MOTOR(LBS)	EQUIPMENT(LBS)	ALLOWABLE LOAD(LBS)
550 X 2 = 1100	100	1200

FOR INFORMATION ONLY

Version	Revision Description	Date	Initials
1			
2			
3			
4			
5			
6			
7			

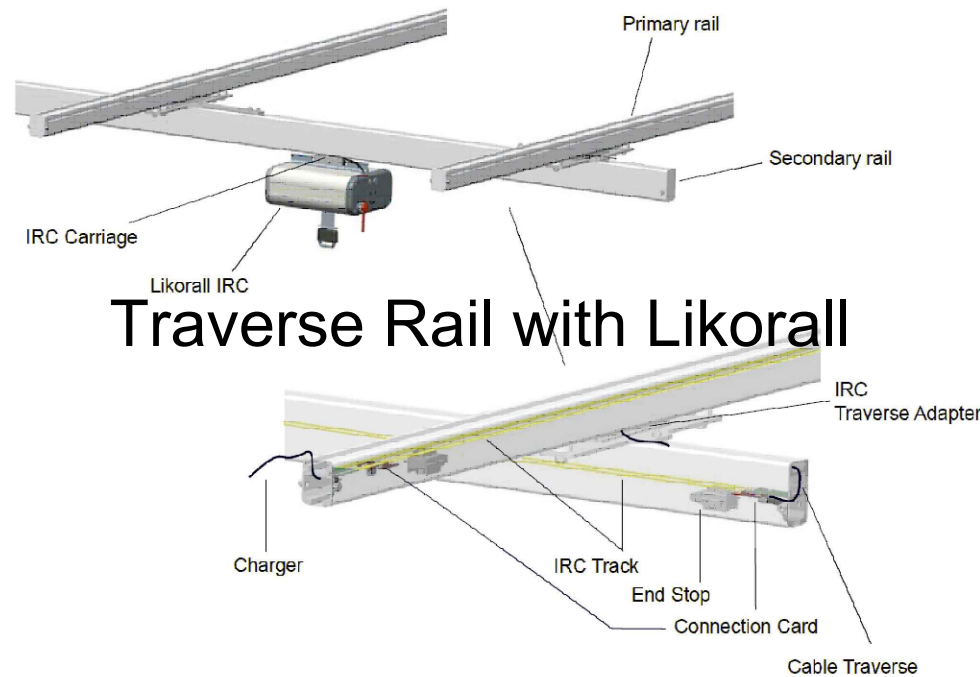
	SIOUX FALLS VA HEALTH CARE SYSTEM 2501 W 22ND ST SIOUX FALLS, SD 57117-5046		CEILING MOUNTED TRAVERSE IN-RAIL CHARGING APPLICATION 550 LBS MAX LIFTING CAPACITY	
	DRAWN BY: <i>Stirn</i>	DATE: 11/15/16	SCALE: AS NOTED	SHEET 1 OF 1
THIS DRAWING IS NOT TO BE USED AS A CONSTRUCTION DRAWING, UNLESS NOTED AS SUCH. ACCURACY OF THIS DRAWING IS BASED UPON INFORMATION PROVIDED TO HILL-ROM. OPTIMAL ARRANGEMENT TO BE DETERMINED AT TIME OF INSTALLATION.		PROJECT #		

Liko Continuous IN-Rail Charging (IRC) Details

GENERAL INFORMATION

IMPORTANT NOTES:

1. REFER TO LIKO INSTALLATION INSTRUCTIONS FOR IN-RAIL CHARGING SETUP AND INSTALLATION..
2. MUST BE INSTALLED BY A LIKO-CERTIFIED INSTALLER.
3. IN-RAIL CHARGING (IRC) TRACK/TAPE (part #3126150) IS APPLIED USING THE IRC APPLICATION TOOL (part #3126160). MUST BE CONTINUOUS, NO SPLICES.
4. A STANDARD 110V ELECTRICAL RECEPTACLE IS REQUIRED NEAR THE PRIMARY RAIL(S) IN ORDER TO POWER THE BATTERY CHARGER(S) FOR THE PATIENT LIFT MOTOR(S).
5. FOR STANDARD PATIENT LIFT CHARGING, THERE WILL BE (1) LIFT MOTOR and (1) BATTERY CHARGER REQUIRED. ONE PRIMARY RAIL (and ONE TRAVERSE RAIL - if applicable) WILL HAVE CHARGING TRACK APPLIED, WITH AN INDEPENDENT CONNECTION TO THE BATTERY CHARGER.
6. FOR BARIATRIC "ULTRATWIN" PATIENT LIFT CHARGING, THERE WILL BE (2) LIFT MOTORS and (2) BATTERY CHARGERS REQUIRED. EACH RAIL WILL HAVE CHARGING TRACK APPLIED, WITH A SEPARATE, INDEPENDENT CONNECTION TO EACH BATTERY CHARGER. NOTE: A SINGLE DUPLEX RECEPTACLE CAN BE USED TO CONNECT TWO (2) IRC BATTERY CHARGERS IF NEEDED.
7. THE IRC CHARGER TO BE INSTALLED AND CORD RAN BELOW THE FINISHED CEILING. CORD LENGTH IS 72", AND EXCESS CAN BE STORED IN LIKO RAIL CHANNEL. REFER TO ELECTRICAL CODE FOR APPROVED LOCATION AND ROUTING.
8. ELECTRICAL RECEPTACLES, ALONG WITH THE IRC CHARGER'S TRANSFORMER, FLEXIBLE CORDS & CABLES SHOULD BE INSTALLED BELOW FINISHED CEILING UNLESS INSTALLATION ABOVE CEILING IS PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC), AND/OR STATE AND LOCAL ELECTRICAL CODE. COMPLIANCE TO THE ELECTRICAL CODES, INCLUDING LABOR AND MATERIALS REQUIRED, IS THE RESPONSIBILITY OF "OTHERS" - NOT HILL-ROM.
9. **IMPORTANT: THE RESPONSIBILITY FOR COMPLIANCE TO N.E.C. AND LOCAL ELECTRICAL CODE IS BY "OTHERS".**
10. ANY NEW ELECTRICAL RECEPTACLES / ELECTRICAL ENGINEERING BY "OTHERS".
11. ANY WIREMOLD COVERINGS FURNISHED AND INSTALLED BY "OTHERS".

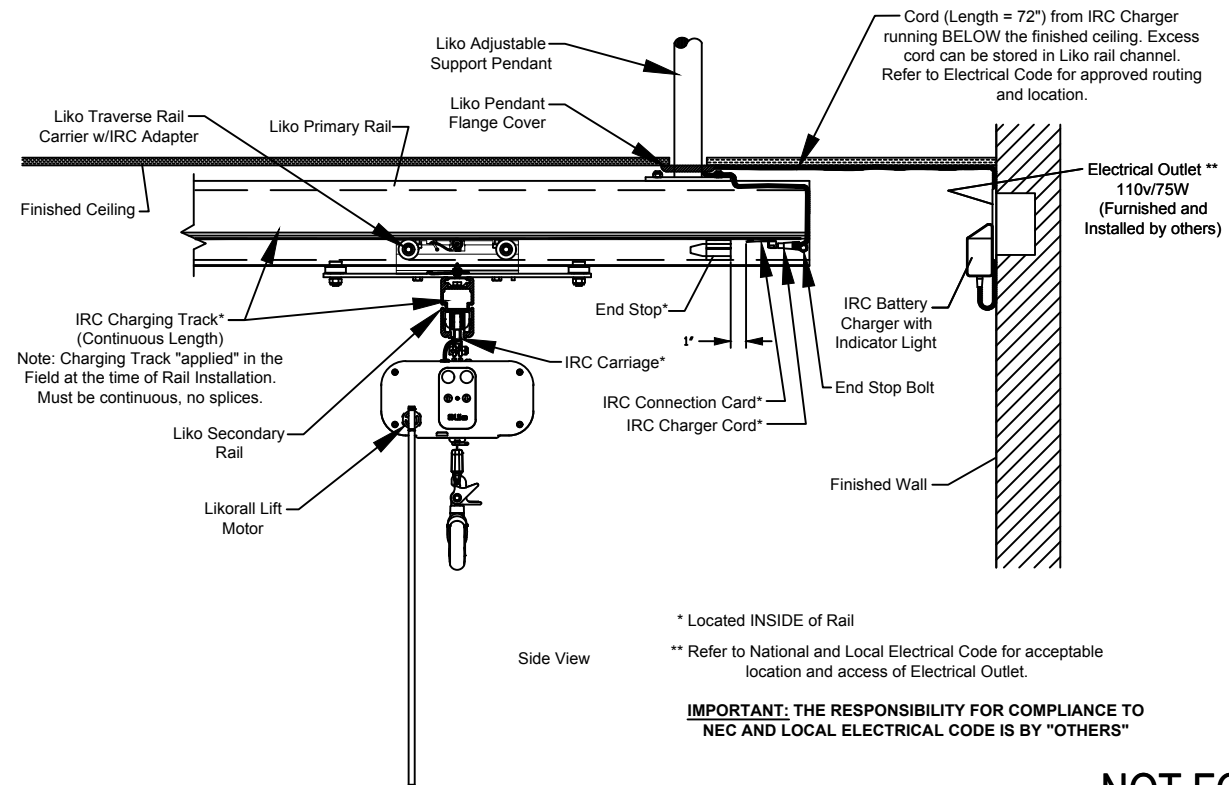
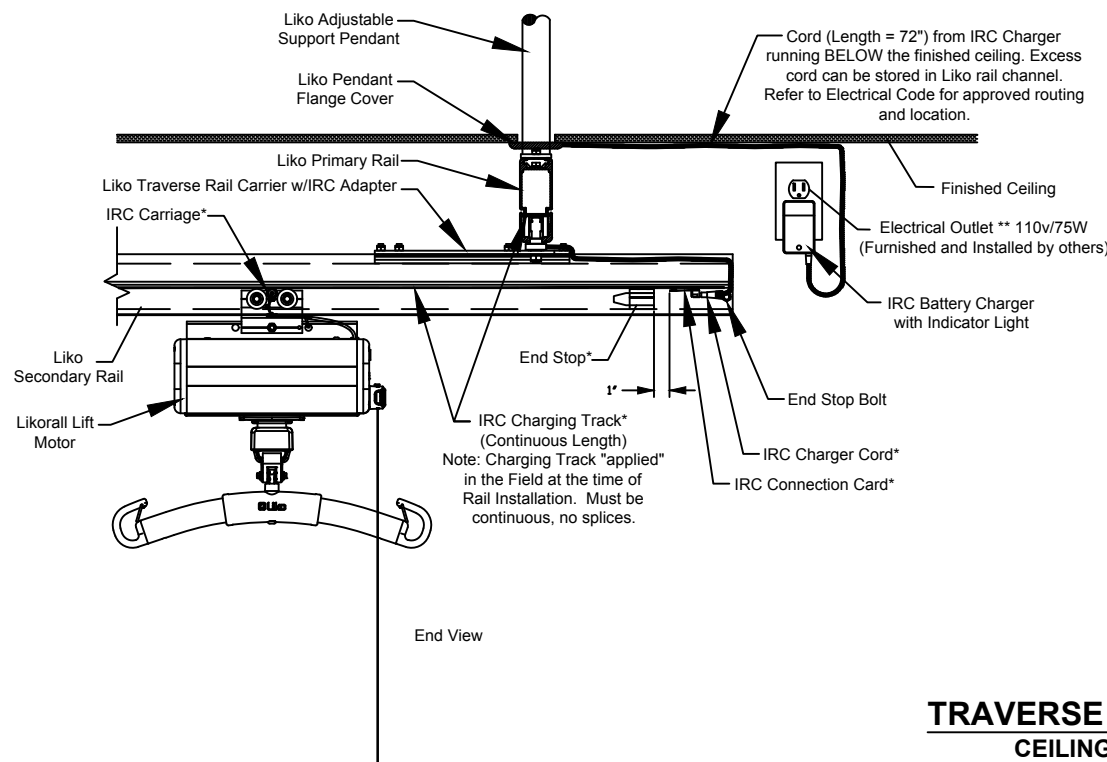


Traverse Rail with Liko

TYPICAL DETAIL - IN-RAIL CHARGING (IRC)

PATIENT LIFT WITH SINGLE LIFT MOTOR - ISO VIEW

NOTE: FOR CLARITY, THE PRIMARY RAILS ARE NOT SHOWN AS "RECESSED" INTO FINISHED CEILING



TRAVERSE RAIL SYSTEM CEILING MOUNTED

* Located INSIDE of Rail
** Refer to National and Local Electrical Code for acceptable location and access of Electrical Outlet.

IMPORTANT: THE RESPONSIBILITY FOR COMPLIANCE TO NEC AND LOCAL ELECTRICAL CODE IS BY "OTHERS"

NOT FOR CONSTRUCTION

*SEE NOTES PAGE FOR IMPORTANT INSTALLATION AND COORDINATION DETAILS

* SEE NOTES PAGE FOR ADDITIONAL IMPORTANT INSTALLATION AND COORDINATION DETAILS

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