

CROSSEY ENGINEERING LTD.
ELECTRICAL

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FIRE ALARM AND NURSE CALL SYSTEMS REPLACEMENT
CUMMER LODGE LONG TERM CARE HOME
205 CUMMER AVENUE
NORTH YORK, ONTARIO M2M 2E8



Long-Term Care Homes and Services Division

FIRE ALARM LEGEND

	FIRE ALARM MANUAL PULL STATION TO BE COMPLETE WITH PROTECTIVE PLASTIC COVER WITH LOCAL ALARM AND BATTERY.
	FIRE ALARM SPEAKER - CEILING MOUNTED
	FIRE ALARM SPEAKER - WALL MOUNTED
	FIRE ALARM STROBE LIGHT - WALL MOUNTED
	FIRE ALARM STROBE LIGHT - CEILING MOUNTED
	FIRE ALARM HORN SPEAKER - WALL MOUNTED
	FIRE ALARM HORN SPEAKER - CEILING MOUNTED
	FIRE ALARM HORN SPEAKER STROBE LIGHT - WALL MOUNTED
	FIRE ALARM HORN SPEAKER STROBE LIGHT - CEILING MOUNTED
	IONIZATION SMOKE DETECTOR CEILING MOUNTED
	IONIZATION SMOKE DETECTOR WALL MOUNTED
	IONIZATION SMOKE DETECTOR DUCT MOUNTED
	IONIZATION SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR
	PHOTOELECTRIC BEAM TYPE SMOKE DETECTOR - TRANSMITTER
	PHOTOELECTRIC BEAM TYPE SMOKE DETECTOR - RECEIVER
	PHOTOELECTRIC DETECTOR CEILING MOUNTED
	PHOTOELECTRIC DETECTOR WALL MOUNTED
	190 DEGREE FIXED TEMPERATURE THERMAL DETECTOR CEILING MOUNTED
	190 DEGREE FIXED TEMPERATURE THERMAL DETECTOR WALL MOUNTED
	190 RATE OF RISE THERMAL DETECTOR CEILING MOUNTED
	190 RATE OF RISE THERMAL DETECTOR WALL MOUNTED
	135 RATE OF RISE THERMAL DETECTOR CEILING MOUNTED
	135 RATE OF RISE THERMAL DETECTOR WALL MOUNTED
	FIRE ALARM CONNECTION TO SUPERVISED VALVE
	FIRE ALARM CONNECTION TO FLOW SWITCH
	FIRE ALARM CONNECTION TO WET ALARM VALVE
	FIRE ALARM CONNECTION TO DRY ALARM VALVE
	FIRE ALARM CONNECTION TO PRESSURE SWITCH
	FIRE ALARM SYSTEM FAN SHUTDOWN
	DUAL VOLTAGE RELAY FOR FAN SHUT DOWN
	FIRE ALARM SYSTEM FAN START-UP
	FIRE ALARM CONNECTION TO ALARM CHECK VALVE
	FIRE ALARM CONNECTION TO SMOKE DAMPER
	LIMIT SWITCH
	FIRE ALARM CONNECTION TO ITEM AS INDICATED
	ADDRESSABLE INTERFACE MODULE
	CENTRAL ALARM CONTROL FACILITY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	FIRE DO NOT ENTER SIGN
	FIRE ALARM HANDSET
	CONNECTION TO ELECTRIC DOOR HOLDER, ELECTRIC DOOR HOLDER SUPPLIED BY OTHERS, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR
	LINE ISOLATION MODULE
	INDIVIDUAL ADDRESSABLE CONTROL MODULE
	MAGLOCK RESET SWITCH
	AIR PRESSURE ALARM
	FIRE ALARM END OF LINE RESISTOR
	DENOTES ADDRESSABLE FIRE ALARM DATA LOOP ZONE
	DENOTES ADDRESSABLE DATA LOOP NUMBER
	DENOTES BUILDING NAME (OPTIONAL)
	DENOTES BUILDING NUMBER/FLOOR NUMBER

NURSE CALL LEGEND

	NURSE CALL BEDROOM STATION COMPLETE WITH CALL CORD(S) AND SHEET CLIP(S)
	NURSE CALL SYSTEM BATHROOM/WASHROOM STATION IN BED ROOM AREAS
	NURSE CALL SYSTEM BATHROOM/WASHROOM STATION
	NURSE CALL SHOWERTUB ROOM STATION WITH GASKET (WATERTIGHT & WATERPROOF)
	NURSE CALL SYSTEM EMERGENCY
	NURSE CALL DUTY STATION
	NURSE CALL SYSTEM STAFF STATION
	NURSE CALL SYSTEM CONSOLE OR MONITOR
	WALL MOUNTED NURSE CALL SYSTEM ANNUNCIATOR
	NURSE CALL SYSTEM PANEL (w/ POWER SUPPLY, BACKUP POWER, etc.)
	DEDICATED PHONE LINE TO CENTRAL AMBULANCE DISPATCH
	CARDIAC ARREST STATION
	VERRIDE KEY SWITCH
	CEILING MOUNTED PATIENT TRACKING MONITOR
	WALL MOUNTED PATIENT MONITORING STATION
	WALL MOUNTED PATIENT MONITORING MASTER STATION
	WANDERING PATIENT SENSOR
	WANDERING PATIENT MASTER STATION
	CRP - CEILING BEACON POSITION DEVICE
	WRPD - WALL BEACON IN ROOM POSITION DEVICE
	CSPW - CEILING BEACON POSITION WANDER
	WBPW - WALL BEACON POSITION WANDER
	NURSE CALL DOME LIGHT OR ROOM CONTROLLER CEILING MOUNTED
	NURSE CALL DOME LIGHT OR ROOM CONTROLLER WALL MOUNTED
	NURSE CALL ZONE IDENTIFIER - 'S' DENOTES COMPLETE WITH LOCAL SOUNDER
	NURSE CALL SYSTEM ELAPSED TIME CLOCK
	DENOTES PATIENT CARE CLASSIFICATION B - BASIC, I - INTERMEDIATE, C - CRITICAL

MISCELLANEOUS LEGEND

	DENOTES REFER TO NOTE
	DENOTES RAISE-LOWER SWITCH
	DENOTES KEY OPERATED
	DENOTES ON-OFF SWITCH w/ PILOT LIGHT
	DENOTES SEPARATE CIRCUIT
	DENOTES SPLIT-WIRED
	DENOTES ISOLATED GROUND
	DENOTES GROUNDED FAULT INTERRUPTER
	DENOTES TWST-LOCK
	DENOTES WATERTIGHT (CSA ENCLOSURE 4)
	DENOTES WATER-PROOF (CSA ENCLOSURE 3)
	DENOTES EXPLOSION-PROOF
	DENOTES CHILD-PROOF
	DENOTES TAMPER-PROOF
	DENOTES HOUSE-KEEPING
	DENOTES WIRE GUARD
	DENOTES MOUNTED IN MILLWORK
	DENOTES DEVICE MOUNTED 150mm ABOVE COUNTER TOP
	DENOTES HANDICAP PUSH BUTTON
	DENOTES EMPTY CONDUIT
	DENOTES RELAY BASE
	JUNCTION BOX
	DENOTES MECHANICAL EQUIPMENT
	DENOTES EXISTING ITEM TO REMAIN
	DENOTES EXISTING ITEM TO BE REMOVED
	DENOTES EXISTING ITEM TO BE RELOCATED
	DENOTES EXISTING ITEM IN RELOCATED POSITION
	DENOTES EXISTING DEVICE PROVIDED WITH NEW WIRING
	CONTINUOUS LINE DENOTES NEW ITEM UNLESS OTHERWISE NOTED
	HIDDEN LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED
	DASHED LINE INDICATES FIRE ALARM ZONE BOUNDARIES

POWER LEGEND

	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	15A-125V 2P-3W ISOLATED GROUND DUPLEX RECEPTACLE, WALL MOUNTED (S-S DENOTES SURGE SUPPRESSION TYPE)
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED 150mm ABOVE COUNTER TOP
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED 150mm ABOVE COUNTER TOP
	15A-125V 2P-3W GROUNDED TWO (2) GANGED RECEPTACLES, WALL MOUNTED
	15A-125V 2P-3W GROUNDED TWO (2) GANGED RECEPTACLES, WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED - DEDICATED CIRCUIT
	15A-125V 2P-3W ISOLATED GROUND DUPLEX RECEPTACLE, MOUNTED ON CHANNEL RACEWAY
	120V CONNECTION TO EQUIPMENT
	208V, 1PH CONNECTION TO EQUIPMENT
	208V, 3PH CONNECTION TO EQUIPMENT
	240V, 1PH CONNECTION TO EQUIPMENT
	240V, 3PH CONNECTION TO EQUIPMENT
	347V, 1PH CONNECTION TO EQUIPMENT
	480V, 1PH CONNECTION TO EQUIPMENT
	480V, 3PH CONNECTION TO EQUIPMENT
	600V, 1PH CONNECTION TO EQUIPMENT
	600V, 3PH CONNECTION TO EQUIPMENT
	DISCONNECT SWITCH
	COMBINATION MAGNETIC MOTOR STARTER
	MANUAL MOTOR STARTER
	MAGNETIC MOTOR STARTER
	VARIABLE SPEED CONTROLLER, SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
	VARIABLE FREQUENCY DRIVE
	THERMOSTAT, SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
	SERVICE POLE
	CONTACTOR
	TIME SWITCH
	HAND DRYER, SUPPLIED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
	PUSHBUTTON STATION, SUPPLIED BY OTHERS, SINGLE GANG BACKBOX AND FINAL TERMINATION BY ELECTRICAL CONTRACTOR (MC DENOTES HANDICAPPED PUSH PLATE)
	EMERGENCY POWER OFF BUTTON, (M - DENOTES MASTER STATION)
	OVERHEAD DOOR CONTROLLER (BY OTHERS)
	DOOR OPERATOR SUPPLIED BY OTHERS, 120V POWER CONNECTION PROVIDED BY ELECTRICAL CONTRACTOR
	ELECTRIC HEATER, SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
	TRANSFORMER (TX), FLOOR MOUNTED, COMPLETE WITH 4" (100mm) HIGH HOUSEKEEPING PAD
	FLOOR MOUNTED ELECTRICAL EQUIPMENT COMPLETE WITH 1" (100mm) HIGH HOUSEKEEPING PAD
	PANELBOARD, RECESSED/SURFACE MOUNTED, REFER TO PANEL SCHEDULES.
	TYPICAL DESIGNATIONS FOR POWER PANEL ARE AS FOLLOWS: FLOOR (B-BASEMENT, 1-GROUND FLOOR, 2-SECOND FLOOR, S-SITE) DESIGNATION (A-Z - NORMAL POWER, E,F,G,H-Y-EMERGENCY POWER) VOLTAGE (2-120/208V, 4-277/480V, 6-347/480V) MS - DENOTES MAIN SWITCH/HEAD DP - DENOTES DISTRIBUTION PANEL MCC - DENOTES MOTOR CONTROL CENTRE LP - DENOTES LIGHTING PANEL PP - DENOTES POWER/RECEPTACLE PANEL RP - DENOTES RELAY PANEL
	TYPICAL MATCHLINE ORIENTATION
	THE ARROW POINTS TO THE DIRECTION OF EACH BLOCK AND ITS RESPECTIVE DRAWING NUMBER. INFORMATION SHOWN ON THE MATCHLINE SIDE THAT FLAGS OTHER DRAWING, IS FOR INFORMATION ONLY, AND TO PROVIDE SOME SENSE OF CONTINUITY TO THE CURRENT DRAWING. THIS INFORMATION SHALL BE ACCOUNTABLE ONLY ON THE DRAWING INDICATED.
	MATCHLINE IS A COMMON BOUNDARY LINE THAT DIVIDES EACH FLOOR INTO ITS DESIGNATED BLOCKS
	DASHED LINE INDICATES FIRE ALARM ZONE BOUNDARIES

GENERAL NOTES

- THIS DRAWING IS A MASTER LEGEND DRAWING. SOME SYMBOLS MAY NOT APPEAR WITHIN THE DOCUMENTS NOR BE APPLICABLE TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN A FULL UNDERSTANDING OF THIS LEGEND.
- THE PROJECT SCOPES ARE TO INSTALL A COMPLETE NEW ADDRESSABLE FIRE ALARM SYSTEM AND NURSE CALL, STAFF ALERT & WANDERING ALERT SYSTEM, TEST AND COMMISSION OF THE NEW FIRE ALARM AND NURSE CALL SYSTEMS SHALL BE COMPLETED PRIOR TO ACTIVATING THE NEW FIRE ALARM AND NURSE CALL SYSTEMS AND TO REMOVE A COMPLETE EXISTING FIRE ALARM AND NURSE CALL SYSTEMS AFTERWARD.
- EXISTING FIRE ALARM AND NURSE CALL SYSTEMS MUST REMAIN IN OPERATION UNTIL THE NEW FIRE ALARM AND NURSE CALL SYSTEMS TO BE INSTALLED AND VERIFIED.
- ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE EXISTING ARCHITECTURAL, STRUCTURAL, CIVIL AND MECHANICAL DOCUMENTS AT ALL TIMES. IT SHALL BE THE ELECTRICAL'S RESPONSIBILITY TO OBTAIN ALL DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION.
- ELECTRICAL CONTRACTOR ALLOW IN BID PRICE FOR ALL NECESSARY WORK TO PROVIDE AND INSTALL MATCHING BRISGS AFTER THE REMOVAL OF THE EXISTING FIRE ALARM SYSTEM, NURSE CALL SYSTEM AND ASSOCIATED DEVICES AND ALSO AFTER RELOCATING ALL DEVICES NEED TO BE RELOCATED. ELECTRICAL CONTRACTOR TO ALLOW IN BID PRICE FOR ALL NECESSARY PATCHING, REPAIRING AND PAINTING OF EXISTING CEILINGS AND WALLS AS REQUIRED FOR THE ELECTRICAL DEMOLITION/INSTALLATIONS.
- THE EXISTING FIRE ALARM LAYOUTS ARE BASED ON SITE REVIEW. CONTRACTOR SHALL REFER TO THE ANNUAL TEST AND INSPECTION REPORTS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES. BEFORE SUBMITTING ANY PRICE, THE CONTRACTOR SHALL VISIT THE SITE AS IDENTIFIED IN DIVISION 1 DOCUMENTS AND EXAMINE THE FOLLOWING:
6.1. CHECK THE EXISTING CONDITIONS AND IDENTIFY ANY LIMITATIONS.
6.2. EXAMINE THE PROPOSED WORK AGAINST THE EXISTING CONDITIONS. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED WORK CAN BE CARRIED OUT, OR SHALL BE MODIFIED AT NO EXTRA COST TO THE OWNER IN ORDER TO ACHIEVE THE INTENT OF THE SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS.
6.3. IF THE CONTRACTOR BELIEVES LIMITATIONS AND/OR DISCREPANCIES EXIST HE MUST THEN SUBMIT IN WRITING TO THE PRIME CONSULTANT IDENTIFYING THEM. CLARIFICATION WILL BE ISSUED.
- DETAILS ON ELECTRICAL DRAWINGS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. DETAILS DO NOT SHOW ALL COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT THAT IS REQUIRED TO ASSIST THE INSTALLATION.
- ALL FIRE ALARM AND NURSE CALL DEVICES SHOWN ON THE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- PROVIDE AND INSTALL NEW FIRE ALARM AND NURSE CALL DEVICES AS INDICATED PER SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE TO EXAMINE AIR HANDLING UNITS AND PROVIDE SUFFICIENT NUMBER OF DUCT SMOKE DETECTORS FOR PROPER DETECTION AS PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE.
- ALL JUNCTION BOXES ARE TO BE IDENTIFIED IN THE SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL ENSURE ACCESS TO ALL JUNCTION BOXES ARE NOT IMPEDED.
- PROVIDE AND INSTALL LCD & LED NETWORK ANNUNCIATOR, ADDRESSABLE FIRE ALARM CONTROL PANEL AND PASSIVE GRAPHIC.
- THE CONTRACTOR SHALL PROVIDE A DB TEST REPORT TO CITY OF TORONTO CONSIDERATION AFTER THE SYSTEMS ARE INSTALLED AND TWO WEEKS PRIOR TO THE FIRE INSPECTION.
- PROVIDE AND INSTALL NEW FIRE ALARM MANUAL PULL STATION AT HEIGHT OF 1200mm AFF. EXACT LOCATION AND MOUNTING REQUIREMENTS OF MANUAL STATION TO BE VERIFIED WITH LONG TERM CARE MANAGEMENT PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL TAKE NOTE OF THE DRAWING SCHEDULES AND GOVERN HIMSELF ACCORDINGLY.
- AFTER COMPLETE INSTALLATION, TEST AND COMMISSION OF THE NEW FIRE ALARM AND NURSE CALL SYSTEMS PRIOR TO GOING LIVE.
- REMOVE ALL EXISTING FIRE ALARM AND NURSE CALL DEVICES INCLUDING END OF LINES, EXPOSED CONDUIT AND JUNCTION BOXES ON EACH FLOOR AND MAKE GOOD FINISH.
- OLD WIRING TO BE PULLED BACK TO CEILINGS OR CONDUITS WHICH ARE TO BE LABELED CLEARLY AS DECOMMISSIONED AND LEFT IN CEILING SPACE TO MINIMIZE AMOUNT OF INTERRUPTION TO OPERATIONS.
- ALL AUDIBLE AND STROBE CIRCUITS SHALL BE ALTERNATELY WIRED.
- PROVIDE STAINLESS STEEL COVER PLATES FOR ALL REMOVED DEVICES.
- ANY SURFACES OR DAMAGED FINISHES AS A RESULT OF ELECTRICAL ALTERATIONS OR INSTALLATIONS SHALL BE REPAIRED.
- BE RESPONSIBLE FOR CARE OF THE BUILDING. CLEAN UP ALL DEBRIS, MARKS ON THE WALLS, DOORS, ETC. ON A DAILY BASIS, AND REMOVE FROM THE SITE ON OR BEFORE COMPLETION OF CONTRACT. CONTRACTOR TO ENSURE THAT CORRIDORS ARE KEPT FREE OF CONSTRUCTION MATERIAL COOPERATIVE WITH ALL TRADES.
- COORDINATE WITH CITY OF TORONTO FOR ALL FIRE WATCH REQUIREMENTS DURING TRANSITION TIME.
- REFER TO ABATEMENT REPORT FOR ANY AFFECTED WORK. COVER ALL COST IN THE CONTRACT.
- SECURE FLEX WRING ABOVE CEILING AND SHORTER THAN 10 FEET IS ACCEPTABLE.
- PAINTED CONDUITS AND BOXES ARE ACCEPTABLE HOWEVER, WHERE THERE ARE ACCESSIBLE CEILINGS, CONDUITS AND BOXES MUST BE INSTALLED ABOVE CEILINGS.
- THE INSTALLATION ALL WORK INVOLVED IN THIS PROJECT TO ADHERE TO THE MANAGEMENT SCHEDULING, WHERE NIGHT, WEEK-END OR OTHER NON STANDARD WORKING HOURS ARE NECESSARY, ELECTRICAL CONTRACTOR SHALL INCLUDE FOR THESE EVENTUALITIES IN BASE BID.
- RISERS OR DETAILS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. THEY DO NOT SHOW ALL NECESSARY COMPONENTS, BUT MERELY A GUIDE AS TO THE ORIENTATION OF THE EQUIPMENT WHICH IS REQUIRED.
- CONTRACTOR TO PROVIDE:
- WANDER GUARD WRIST TAGS: UNIT PRICE APPROXIMATE \$300/UNIT
- STAFF ASSIST P PENDANTS: UNIT PRICE
- PRAGERS: 120 UNITS - UNIT PRICE
- CONTRACTOR TO INCLUDE COSTS TO EMPLOY THE SERVICES OF CONTRACTOR/SUPPLIERS TO DO THE INTERFACE AND CONNECTIONS AS FOLLOWS:
28.1 FOR COORDINATION WITH TORONTO HYDRO TO ACCESS TRANSFORMER WALL FOR DEMOLITION, INSTALLATION AND VERIFICATION OF THE SYSTEM.
28.2 FOR ANY MODIFICATIONS TO A4UJ CONTROL TO CONNECT THE FIRE ALARM SHUTDOWN AND INTERFACE WITH DUCT SMOKE DETECTORS AND SERVICES WITH MECHANICAL CONTRACTOR "SERVICELIFT"
28.3 FOR ANY MODIFICATIONS TO THE FIREPUMP CONTROLLER TO ACCOMMODATE THE FIREALARM CONNECTIONS AS REQUIRED AND SERVICES OF SPRINKLER CONTRACTOR.
28.4 FOR SERVICE OF ELEVATOR CONTRACTOR "XONE"
28.5 FOR ANY UNFORSEEN SITE CONDITIONS.
28.6 FOR SERVICE OF EXISTING FIRE ALARM SYSTEM "EFP"

PROPOSED SEQUENCE OF INSTALLATION

FIRE ALARM SYSTEM:
As for fire alarm system, the existing system to be kept until the new system is operational so the contractor will have to come back to remove devices and provide blank cover plates as required.
The sequence of installation can be established/modified and confirmed by the contractor as follows:
Install fire rated closets,
Install fire alarm head end equipment and main loops,
Installation of devices and wiring will be per floor or vertical per unit, whichever is more convenience to the Home,
Install main loops in the corridor and devices per unit and then extending to common spaces and other units on the same floor or vertical,
Testing and verification,
Call fire building and fire department inspection,
Transfer the remote monitoring and disconnect old system,
Demolition of the existing system and devices.
NURSE CALL SYSTEM:
The same principle for the nurse call, but this system can be activated unit by unit.
The sequence of installation can be established/modified and confirmed by the contractor as follows:
Install head end equipment and its network.
The following will be typical for a floor,
Installation of devices and wiring will be per unit including all associated support spaces in the same unit,
Training as provided for the 1st unit when it is complete as per specification,
Old devices and system will be deactivated and removed,
Next unit on the same floor,
Final training sessions as required.

SEQUENCE OF OPERATION - FIRE ALARM

FIRE ALARM SYSTEM OPERATION - OVERALL
(TO BE READ IN CONJUNCTION WITH SECTION 283100)
SYSTEM DESCRIPTION
The fire alarm system is two stage with audible signals that sound a 1000Hz tone at an Alert rate of 20 Pulses Per Minute (PPM) and an Evacuation Rate of 3-3-3 (Temporal).
1ST STAGE ALARM
When the fire alarm system receives a first stage alarm:
- The audible signals will sound at the Alert Rate on all floors.
- The audible signals will sound at the Alert Rate on the ground floor on any alarm condition in the building
- The LED for the alarm zone will be illuminated at any LED annunciator and active graphic annunciator.
- If smoke detector in the bedroom activate, LED shall be displayed at the nurse station annunciator for that bedroom with name and number.
- A message for the device/zone will appear on the LCD display(s) of all panels.
- The elevators will return to the floor of egress (ground floor) or to the alternate floors (basement) as required.
- The below grade stairwell pressurization fans will start.
- Main fresh air unit F-1 will shut down automatically with on/off control at the CACF.
- Smoke damper will be closed automatically with on/off control at the CACF.
- Signal will be automatically sent to lighting control to bypass UL relay and turn on lights on the affected floors.
- A Signal will be sent to Elevator Controller
- A Signal will be sent to Mechanical equipment to initiate miscellaneous Fan Shutdown and Start up
- A Signal will be sent to Release Door Holders
- A Signal will be sent to release Maglocks
- Strobes will activate as required in the floors that have Alert signal sound.
- The auxiliary relays will activate as required to send signal to security system, BMS, elevators' controllers, etc.
- The 5-minute automatic evacuation timer will start.
- The auxiliary relays will activate as required to release electromagnetic door holders, fan shut down, etc.
- Log the event complete with time and date.
- The Fire Department/ Monitoring Agency Alarm Relay will activate.
- Reset function will not be possible until alarm has been or signals have been manually silenced/acknowledged
2ND STAGE ALARM
When the system receives an alarm from a pull station key switch or any other device deemed necessary to enter the system into second stage alarm, the following will occur:
- The audible signals will sound at the evacuation rate throughout the building. - The LED for the alarm zone will be illuminated at any LED annunciator.
- A Message for the zone will appear on the LCD display(s).
- Strobes will activate all floors.
- Log the event complete with time and date.
AUTOMATIC Evacuation
If the automatic evacuation timer expires the system will enter second stage alarm, sounding all audible signals at the evacuation rate.
CONTROL FEATURES:
Total Evacuation Switch:
When the Total Evac switch is activated the audible signals throughout the building(s) will sound at the evacuation rate and the Total Evacuation LED(s) will be illuminated.
Auto Evac Cancel Switch:
Upon receipt of the first alarm, the Auto Evacuation timer will begin and the "Timer Active" LED will flash to indicate that the timer is active.
If the "Auto Evacuation Cancel" (AEC) switch is activated during the timing cycle, the "AEC" LED will illuminate and the signals will continue to sound at the alert rate.
If the "Auto Evacuation Cancel" (AEC) switch is not activated during the 5 minute timing cycle, at the completion of the timer, the "Timer Expired" LED will illuminate and all alarm signals will sound at the Evacuation rate.
Fire Evacuation Switches:
When a Floor Evacuation switch is activated the audible signals for the selected floor will sound at the evacuation rate and the LED will illuminate.
FDR Bypass Switch:
When the Fire Department Relay (FDR) Bypass switch is activated it will prevent the operation of the FDR relay, illuminate the FDR bypass LED and a trouble condition will be initiated.
Auxiliary Bypass switch:
When the Auxiliary Bypass switch is activated, all Auxiliary relays will be bypassed, the Auxiliary Bypass LED will illuminate and a trouble condition will be initiated.
Elevator Bypass Switch:
When the Elevator bypass switch is activated it will prevent the operation of the Elevator recall relays, illuminate the Elevator Bypass LED and a trouble condition will be initiated.
Page Select Switches:
When a Page Select switch is activated, the speakers for the corresponding area(s) are selected and the corresponding page LED will be illuminated. When the Microphone Press to Talk switch is operated, the alarm signal will silence (if previously sounding) and a Pre-Announcement Tone will sound prior to the paging announcement.
All Call Page Switch:
When the All Call switch is activated, the speakers throughout the complex are selected and All Call LED will be illuminated. When the Microphone Press to Talk switch is operated, the alarm signal will silence (if previously sounding) and a Pre-Announcement Tone will sound prior to the paging announcement.
All Call Minus Switch:
When the All Call Minus switch is activated, the speakers that were not programmed for alarm signaling are selected and the All Call Minus LED will be illuminated. When the Microphone Press to Talk switch is operated, the alarm signal will silence (if previously sounding) and a Pre-Announcement Tone will sound prior to the paging announcement.
Page to Evac:
When the Page to Evac switch is activated, the speakers that are sounding at the evacuation rate are selected for a paging announcement and the Page to Evac LED will be illuminated. When the Microphone Press to Talk switch is operated, the alarm signal will silence (if previously sounding) and a Pre-Announcement Tone will sound prior to the paging announcement.
Page to Alert:
When the Page to Alert switch is activated, the speakers that are sounding at the evacuation rate are selected for a paging announcement and the Page to Alert LED will be illuminated. When the Microphone Press to Talk switch is operated, the alarm signal will silence (if previously sounding) and a Pre-Announcement Tone will sound prior to the paging announcement.
Telephone Connect Switch:
When a remote Telephone handset is lifted from its cradle, an audio tone will sound at the Fire Alarm Control Panel and the telephone zone will appear on the Master Telephone (FTCU) LCD display. Operating the "Connect" switch on the FTCU will connect the remote Telephone to the Talk Line will silence the audible tone. Lifting the master Telephone handset will allow two communications between the operator and the remote handset.
Acknowledging the Telephone Call in on the 3-FTCU will silence the audible call-in tone and allow the operator to scroll all telephones calling in and connect the remote telephones as required.
Smoke Exhaust Control Switches:
Each supply or exhaust fans and each motorized damper will have a control switch at the CACF so that the fire department can control them as needed.
1 MINUTE INHIBIT
When the system receives the first alarm, the Reset Switch, the Alarm Silence Switch and the Paging Selection switches will enter a 1 minute inhibit period. During this period the switches will not operate and the 1-Minute Inhibit LED will be illuminated.
SUPERVISORY CONDITION
Activation of any supervisory device or circuit, (Tampers, Valve, etc.) will cause the following:
- Message for the device/circuit will appear on the LCD display(s), identifying the supervisory condition.
- The yellow SUPERVISORY LED will flash and the internal SUPERVISORY buzzer will sound at the Fire Alarm Control Panel LCD's. This LED will flash & the buzzer will sound until all messages have been acknowledged.
- The Fire Department/Monitoring Agency Trouble Relay will be activated.
TROUBLE CONDITION
Any of the following will cause a trouble condition:
- Activation of an open or short circuit across any supervised device/circuit identified as Audible, Supervised Output/Monitor or Visual.
- Activation of an open circuit across any supervised device/circuit identified as ALARM or SUPERVISORY.
- An Internal Panel Fault or Panel Communications Fault.
Activation of a Trouble Condition will cause the following:
- A Message will display on the LCD's identifying the trouble condition.
- The yellow TROUBLE LED will flash and the internal TROUBLE buzzer will sound at the Fire Alarm Control Panel LCD's. The LED will flash & the buzzer will sound until all messages have been acknowledged.
- The Fire Department/Monitoring Agency Trouble Relay will be activated.
- The LED for the input zone will be illuminated at any required LED annunciator.
DEGRADED MODE OPERATION:
The system enters a Degraded Mode if communications are lost to the Main Fire Alarm Control Panel on the Network.
When the system enters a Degraded Mode:
- All the LCD Displays (3-LCDs) initiate a TROUBLE CONDITION and identify any panel addresses to which communication was lost.
- Any Fire Alarm Control Panels that are communicating will operate together.
- All Common Control Features will operate on the Fire Alarm Control Panels that are communicating (as programmed).
- If an alarm is detected, signals will sound and relays will activate as per programming.
- If the digitized audio tone communications is lost, the speakers will sound a 1000 Hz tone at a rate of 20 SPM or 3-3-3, as programmed during an alarm condition.

NOTES:
CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON THE JOB.
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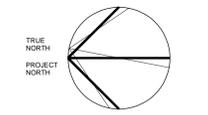
KEYPLAN	
NORTH	

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KEYPLAN

CEL #17504.E02

Seal

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged

FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

Project

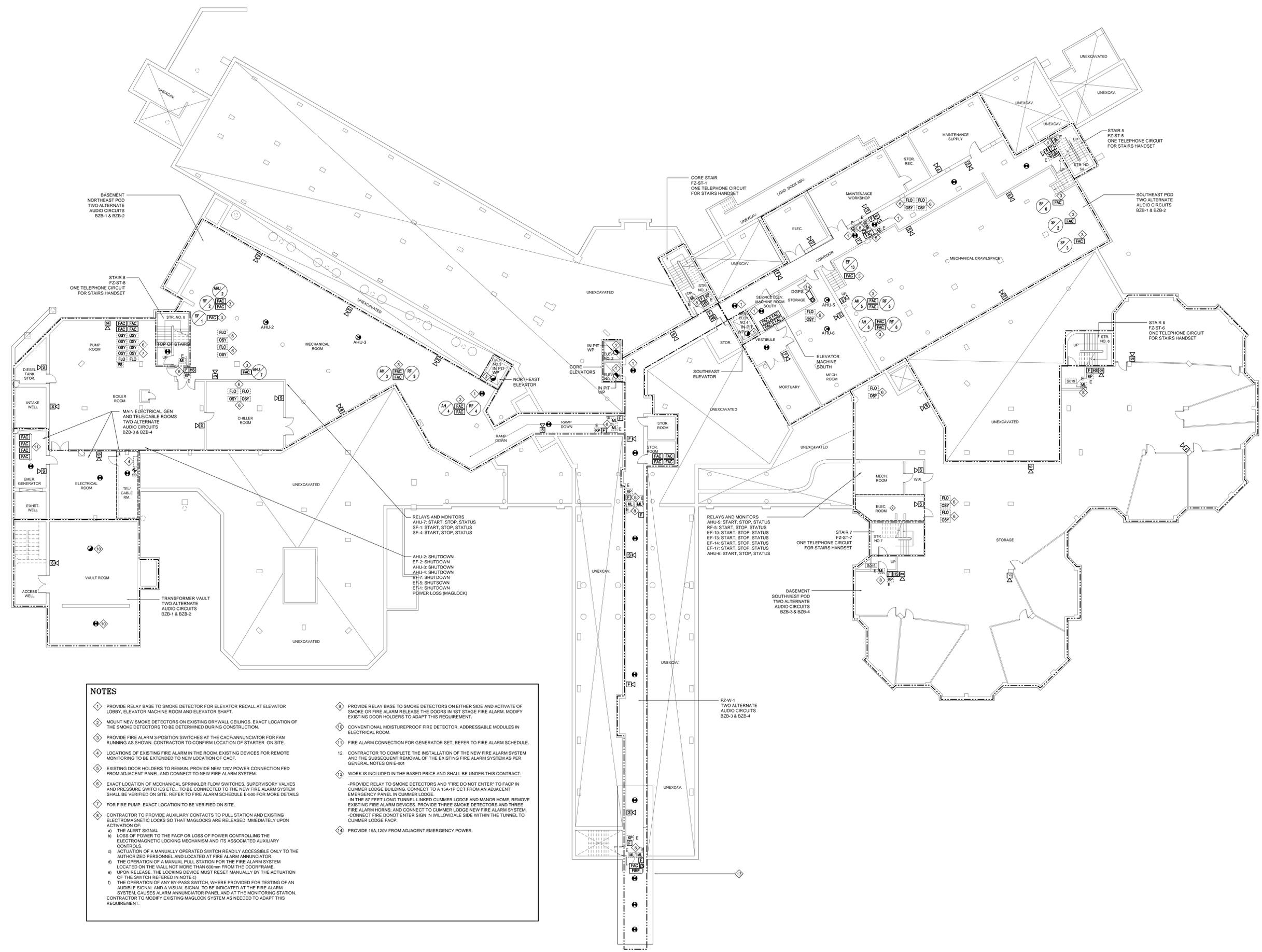
**BASEMENT LEVEL
 FIRE ALARM SYSTEM LAYOUT**

Title: LN
 Drawn by: NN/LN
 Checked by: 17504.FD1
 Project No.:

NOVEMBER 2017
 date
 1:150
 Scale

E-300

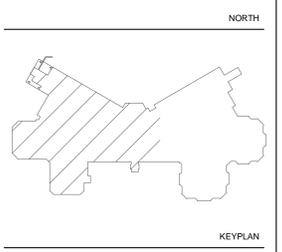
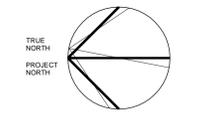
Drawing no. LAST EDIT: 04/JUN/18 11:34:23



- NOTES**
- ◇ PROVIDE RELAY BASE TO SMOKE DETECTOR FOR ELEVATOR RECALL AT ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
 - ◇ MOUNT NEW SMOKE DETECTORS ON EXISTING DRYWALL CEILINGS. EXACT LOCATION OF THE SMOKE DETECTORS TO BE DETERMINED DURING CONSTRUCTION.
 - ◇ PROVIDE FIRE ALARM 3-POSITION SWITCHES AT THE CACFI/ANNUNCIATOR FOR FAN RUNNING AS SHOWN. CONTRACTOR TO CONFIRM LOCATION OF STARTER ON SITE.
 - ◇ LOCATIONS OF EXISTING FIRE ALARM IN THE ROOM. EXISTING DEVICES FOR REMOTE MONITORING TO BE EXTENDED TO NEW LOCATION OF CACFI.
 - ◇ EXISTING DOOR HOLDERS TO REMAIN. PROVIDE NEW 120V POWER CONNECTION FED FROM ADJACENT PANEL AND CONNECT TO NEW FIRE ALARM SYSTEM.
 - ◇ EXACT LOCATION OF MECHANICAL SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES AND PRESSURE SWITCHES ETC., TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM SHALL BE VERIFIED ON SITE. REFER TO FIRE ALARM SCHEDULE E-500 FOR MORE DETAILS.
 - ◇ FOR FIRE PUMP, EXACT LOCATION TO BE VERIFIED ON SITE.
 - ◇ CONTRACTOR TO PROVIDE AUXILIARY CONTACTS TO PULL STATION AND EXISTING ELECTROMAGNETIC LOCKS SO THAT MAGLOCKS ARE RELEASED IMMEDIATELY UPON ACTIVATION OF:
 - a) THE ALERT SIGNAL
 - b) LOSS OF POWER TO THE FACP OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS
 - c) ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO THE AUTHORIZED PERSONNEL AND LOCATED AT FIRE ALARM ANNUNCIATOR.
 - d) THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600mm FROM THE DOORFRAME.
 - e) UPON RELEASE, THE LOCKING DEVICE MUST RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED IN NOTE (c).
 - f) THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM SYSTEM CAUSES ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION. CONTRACTOR TO MODIFY EXISTING MAGLOCK SYSTEM AS NEEDED TO ADAPT THIS REQUIREMENT.
 - ◇ PROVIDE RELAY BASE TO SMOKE DETECTORS ON EITHER SIDE AND ACTIVATE OF SMOKE OR FIRE ALARM RELEASE THE DOORS IN 1ST STAGE FIRE ALARM. MODIFY EXISTING DOOR HOLDERS TO ADAPT THIS REQUIREMENT.
 - ◇ CONVENTIONAL MOISTUREPROOF FIRE DETECTOR, ADDRESSABLE MODULES IN ELECTRICAL ROOM.
 - ◇ FIRE ALARM CONNECTION FOR GENERATOR SET. REFER TO FIRE ALARM SCHEDULE.
 - 12. CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AS PER GENERAL NOTES ON E-001
 - ◇ WORK IS INCLUDED IN THE BASED PRICE AND SHALL BE UNDER THIS CONTRACT:
 - PROVIDE RELAY TO SMOKE DETECTORS AND "FIRE DO NOT ENTER" TO FACP IN CUMMER LODGE BUILDING. CONNECT TO A 15A-1P PCT FROM AN ADJACENT EMERGENCY PANEL IN CUMMER LODGE.
 - IN THE 87 FEET LONG TUNNEL LINKED CUMMER LODGE AND MANOR HOME, REMOVE EXISTING FIRE ALARM DEVICES. PROVIDE THREE SMOKE DETECTORS AND THREE FIRE ALARM HORNS, AND CONNECT TO CUMMER LODGE NEW FIRE ALARM SYSTEM.
 - CONNECT FIRE DONOT ENTER SIGN IN WILLOWDALE SIDE WITHIN THE TUNNEL TO CUMMER LODGE FACP.
 - ◇ PROVIDE 15A/120V FROM ADJACENT EMERGENCY POWER.

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KEYPLAN

CEL #17504.E02

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

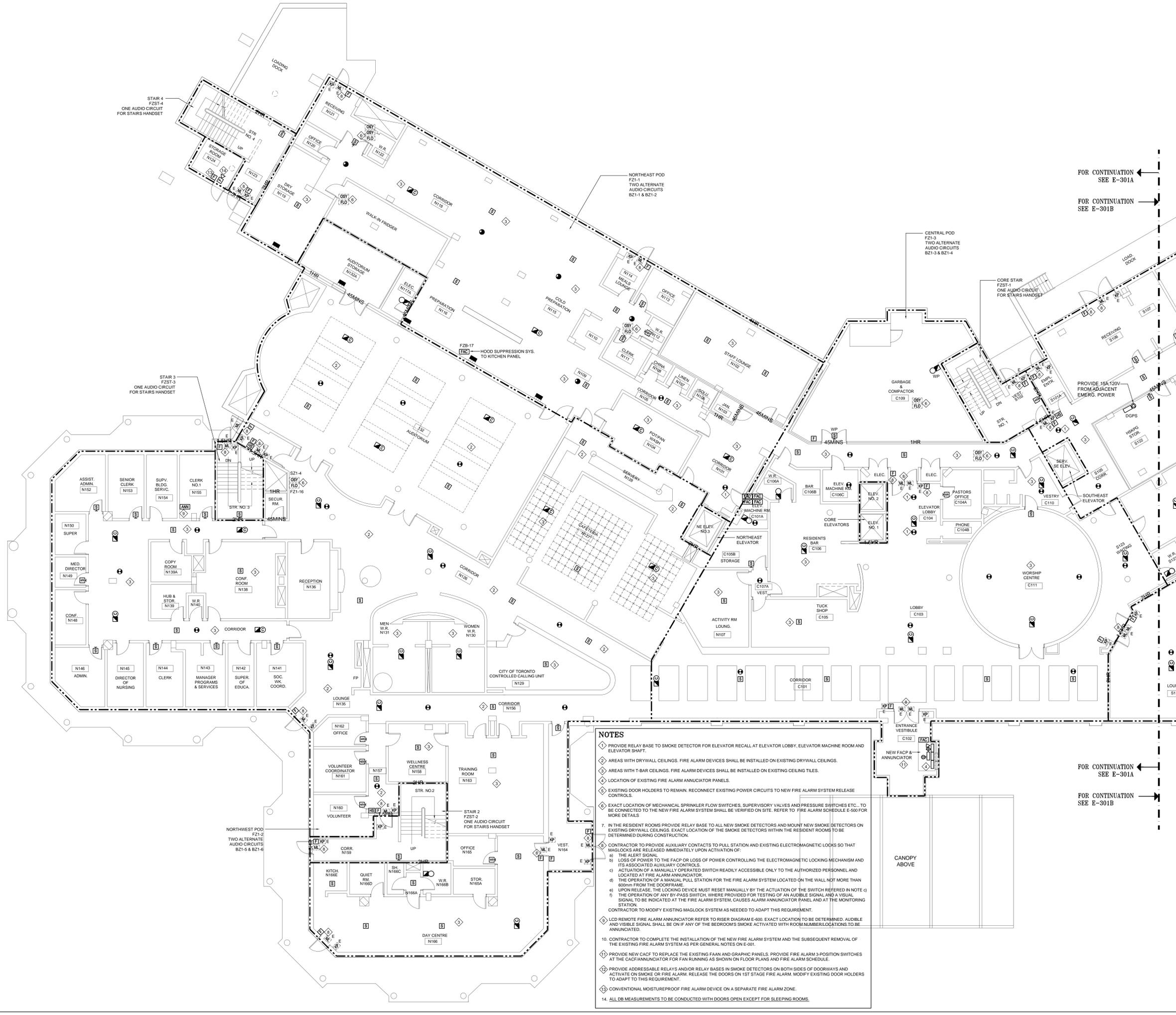
CUMMER LODGE
 Home for the Aged
FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT
 205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

**GROUND FLOOR
 FIRE ALARM SYSTEM LAYOUT
 NORTHBOUND**

Title	NOVEMBER 2017
LN	date
Drawn by	1:100
NN/LN	Scale
Checked by	
17504.F01	
Project No.	

E-301A

Drawing no. LAST EDIT: 04/JUN/18 11:53:15



NOTES

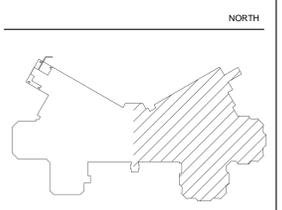
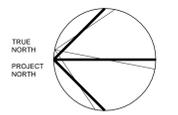
- PROVIDE RELAY BASE TO SMOKE DETECTOR FOR ELEVATOR RECALL AT ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
- AREAS WITH DRYWALL CEILINGS, FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING DRYWALL CEILINGS.
- AREAS WITH T-BAR CEILINGS, FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING CEILING TILES.
- LOCATION OF EXISTING FIRE ALARM ANNUNCIATOR PANELS.
- EXISTING DOOR HOLDERS TO REMAIN. RECONNECT EXISTING POWER CIRCUITS TO NEW FIRE ALARM SYSTEM RELEASE CONTROLS.
- EXACT LOCATION OF MECHANICAL SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES AND PRESSURE SWITCHES ETC... TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM SHALL BE VERIFIED ON SITE. REFER TO FIRE ALARM SCHEDULE E-500 FOR MORE DETAILS.
- IN THE RESIDENT ROOMS PROVIDE RELAY BASE TO ALL NEW SMOKE DETECTORS AND MOUNT NEW SMOKE DETECTORS ON EXISTING DRYWALL CEILINGS. EXACT LOCATION OF THE SMOKE DETECTORS WITHIN THE RESIDENT ROOMS TO BE DETERMINED DURING CONSTRUCTION.
- CONTRACTOR TO PROVIDE AUXILIARY CONTACTS TO PULL STATION AND EXISTING ELECTROMAGNETIC LOCKS SO THAT MAGLOCKS ARE RELEASED IMMEDIATELY UPON ACTIVATION OF:
 - THE ALERT SIGNAL.
 - LOSS OF POWER TO THE FACP OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS.
 - ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO THE AUTHORIZED PERSONNEL AND LOCATED AT FIRE ALARM ANNUNCIATOR.
 - THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600mm FROM THE DOORFRAME.
 - UPON RELEASE, THE LOCKING DEVICE MUST RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED IN NOTE 1).
 - THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM SYSTEM, CAUSES ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION.
 CONTRACTOR TO MODIFY EXISTING MAGLOCK SYSTEM AS NEEDED TO ADAPT THIS REQUIREMENT.
- LCD REMOTE FIRE ALARM ANNUNCIATOR REFER TO RISER DIAGRAM E-600. EXACT LOCATION TO BE DETERMINED. AUDIBLE AND VISIBLE SIGNAL SHALL BE ON IF ANY OF THE BEDROOMS SMOKE ACTIVATED WITH ROOM NUMBER/LOCATIONS TO BE ANNUNCIATED.
- CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AS PER GENERAL NOTES ON E-001.
- PROVIDE NEW FACF TO REPLACE THE EXISTING FAAN AND GRAPHIC PANELS. PROVIDE FIRE ALARM 3-POSITION SWITCHES AT THE FACF/ANNUNCIATOR FOR FAAN RINGING AS SHOWN ON FLOOR PLANS AND FIRE ALARM SCHEDULE.
- PROVIDE ADDRESSABLE RELAYS AND/OR RELAY BASES IN SMOKE DETECTORS ON BOTH SIDES OF DOORWAYS AND ACTIVATE ON SMOKE OR FIRE ALARM. RELEASE THE DOORS ON 1ST STAGE FIRE ALARM. MODIFY EXISTING DOOR HOLDERS TO ADAPT TO THIS REQUIREMENT.
- CONVENTIONAL MOISTUREPROOF FIRE ALARM DEVICE ON A SEPARATE FIRE ALARM ZONE.
- ALL DB MEASUREMENTS TO BE CONDUCTED WITH DOORS OPEN EXCEPT FOR SLEEPING ROOMS.

FOR CONTINUATION
 SEE E-301A
 FOR CONTINUATION
 SEE E-301B

FOR CONTINUATION
 SEE E-301A
 FOR CONTINUATION
 SEE E-301B

NOTES:
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KEYPLAN

CEL #17504.E02

Seal

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged
FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

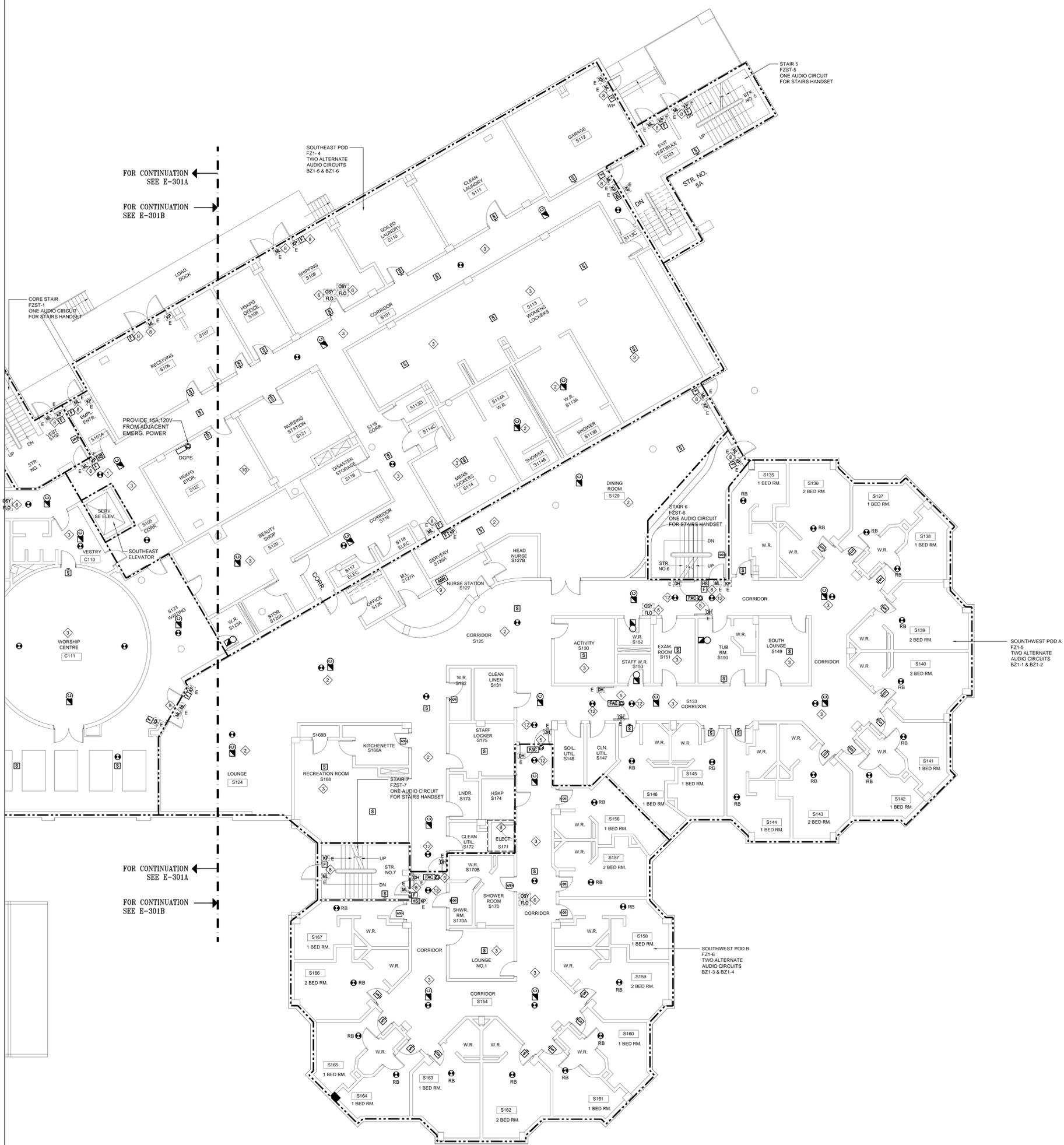
205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

GROUND FLOOR FIRE ALARM SYSTEM LAYOUT SOUTHBOUND

Title	NOVEMBER 2017
LN	date
Drawn by	1:100
NN/LN	Scale
Checked by	
17504.F01	
Project No.	

E-301B

Drawing no.

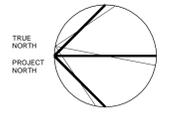


- NOTES**
- PROVIDE RELAY BASE TO SMOKE DETECTOR FOR ELEVATOR RECALL AT ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
 - AREAS WITH DRYWALL CEILINGS. FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING DRYWALL CEILINGS.
 - AREAS WITH T-BAR CEILINGS. FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING CEILING TILES.
 - LOCATION OF EXISTING FIRE ALARM PANELS.
 - EXISTING DOOR HOLDERS TO REMAIN. RECONNECT EXISTING POWER CIRCUITS TO NEW FIRE ALARM SYSTEM RELEASE CONTROLS.
 - EXACT LOCATION OF MECHANICAL SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES AND PRESSURE SWITCHES ETC... TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM SHALL BE VERIFIED ON SITE. REFER TO FIRE ALARM SCHEDULE E-500 FOR MORE DETAILS.
 - IN THE RESIDENT ROOMS PROVIDE RELAY BASE TO ALL NEW SMOKE DETECTORS AND MOUNT NEW SMOKE DETECTORS ON EXISTING DRYWALL CEILINGS. EXACT LOCATION OF THE SMOKE DETECTORS WITHIN THE RESIDENT ROOMS TO BE DETERMINED DURING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE AUXILIARY CONTACTS TO PULL STATION AND EXISTING ELECTROMAGNETIC LOCKS SO THAT MAGLOCKS ARE RELEASED IMMEDIATELY UPON ACTIVATION OF:
 - THE ALERT SIGNAL.
 - LOSS OF POWER TO THE FACP OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS.
 - ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO THE AUTHORIZED PERSONNEL AND LOCATED AT FIRE ALARM ANNUNCIATOR.
 - THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600mm FROM THE DOORFRAME.
 - UPON RELEASE, THE LOCKING DEVICE MUST RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED IN NOTE c)
 - THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM SYSTEM, CAUSES ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION.
 - CONTRACTOR TO MODIFY EXISTING MAGLOCK SYSTEM AS NEEDED TO ADAPT THIS REQUIREMENT.
 - LCD REMOTE FIRE ALARM ANNUNCIATOR. EXACT LOCATION TO BE DETERMINED AUDIBLE AND VISIBLE SIGNAL SHALL BE ON IF ANY OF THE BEDROOM'S SMOKE ACTUATED WITH ROOM NUMBER LOCATIONS TO BE ANNUNCIATED.
 - LOCATION OF NEW FIRE ALARM DGP IN HSKPG 122. EXACT LOCATION TO BE DETERMINED. REFER TO FA RISER DIAGRAM E-600 FOR DETAILS.
 - CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AS PER GENERAL NOTES ON E-001.
 - PROVIDE ADDRESSABLE RELAYS AND/OR RELAY BASES IN SMOKE DETECTORS ON BOTH SIDES OF DOORWAYS AND ACTIVATE ON SMOKE OR FIRE ALARM. RELEASE THE DOORS ON 1ST STAGE FIRE ALARM. MODIFY EXISTING DOOR HOLDERS TO ADAPT TO THIS REQUIREMENT.
 - ALL DB MEASUREMENTS TO BE CONDUCTED WITH DOORS OPEN EXCEPT FOR SLEEPING ROOMS.

CEL CAD FILE: Drawings\007\17504-E02\Cummer Lodge FABRIC.spl\Cummer Lodge FABRIC\E-301B.dwg [08/08]

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KEYPLAN

CEL #17504.E02

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged
FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

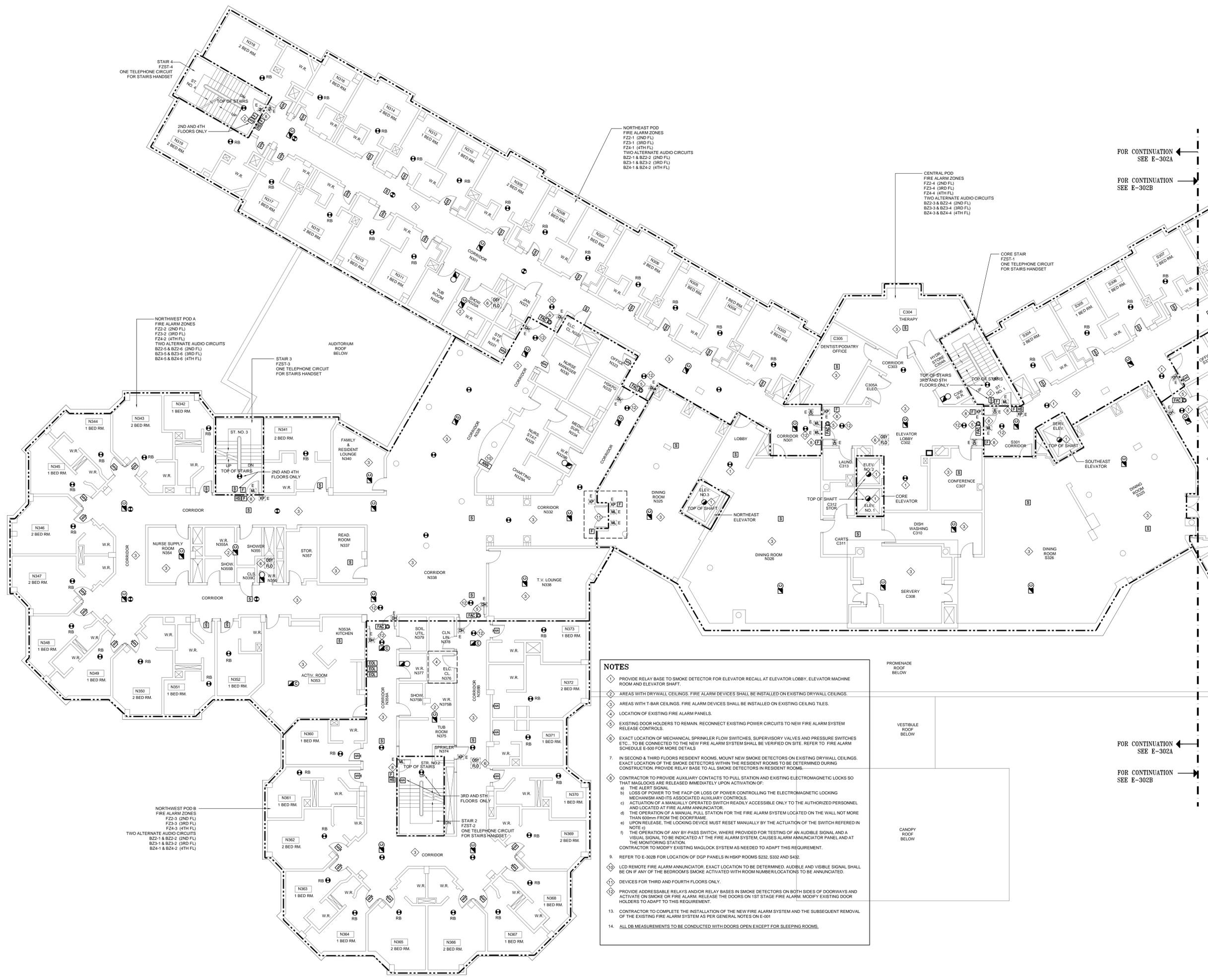
205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

TYPICAL 2ND, 3RD & 4TH FLOOR FIRE ALARM SYSTEM LAYOUT NORTH BOUND

Title	NOVEMBER 2017
LN	date
Drawn by	1:100
N/N/LN	Scale
Checked by	17504.F01
Project No.	

E-302A

Drawing no. LAST EDIT: 06/MAY/18 16:12:56



- NOTES**
- PROVIDE RELAY BASE TO SMOKE DETECTOR FOR ELEVATOR RECALL AT ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
 - AREAS WITH DRYWALL CEILINGS. FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING DRYWALL CEILINGS.
 - AREAS WITH T-BAR CEILINGS. FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING CEILING TILES.
 - LOCATION OF EXISTING FIRE ALARM PANELS.
 - EXISTING DOOR HOLDERS TO REMAIN. RECONNECT EXISTING POWER CIRCUITS TO NEW FIRE ALARM SYSTEM RELEASE CONTROLS.
 - EXACT LOCATION OF MECHANICAL SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES AND PRESSURE SWITCHES ETC., TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM SHALL BE VERIFIED ON SITE. REFER TO FIRE ALARM SCHEDULE E-500 FOR MORE DETAILS.
 - IN SECOND & THIRD FLOORS RESIDENT ROOMS. MOUNT NEW SMOKE DETECTORS ON EXISTING DRYWALL CEILINGS. EXACT LOCATION OF THE SMOKE DETECTORS WITHIN THE RESIDENT ROOMS TO BE DETERMINED DURING CONSTRUCTION. PROVIDE RELAY BASE TO ALL SMOKE DETECTORS IN RESIDENT ROOMS.
 - CONTRACTOR TO PROVIDE AUXILIARY CONTACTS TO PULL STATION AND EXISTING ELECTROMAGNETIC LOCKS SO THAT MAGLOCKS ARE RELEASED IMMEDIATELY UPON ACTIVATION OF:
 - THE ALERT SIGNAL.
 - LOSS OF POWER TO THE FACP OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS.
 - ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO THE AUTHORIZED PERSONNEL AND LOCATED AT FIRE ALARM ANNUNCIATOR.
 - THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600mm FROM THE DOORFRAME.
 - UPON RELEASE, THE LOCKING DEVICE MUST RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED IN NOTE (i).
 - THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM SYSTEM, CAUSES ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION.
 CONTRACTOR TO MODIFY EXISTING MAGLOCK SYSTEM AS NEEDED TO ADAPT THIS REQUIREMENT.
 - REFER TO E-302B FOR LOCATION OF DGP PANELS IN HSKP ROOMS S232, S332 AND S432.
 - LCD REMOTE FIRE ALARM ANNUNCIATOR. EXACT LOCATION TO BE DETERMINED. AUDIBLE AND VISIBLE SIGNAL SHALL BE ON IF ANY OF THE BEDROOM'S SMOKE ACTIVATED WITH ROOM NUMBER/LOCATIONS TO BE ANNUNCIATED.
 - DEVICES FOR THIRD AND FOURTH FLOORS ONLY.
 - PROVIDE ADDRESSABLE RELAYS AND/OR RELAY BASES IN SMOKE DETECTORS ON BOTH SIDES OF DOORWAYS AND ACTIVATE ON SMOKE OR FIRE ALARM. RELEASE THE DOORS ON 1ST STAGE FIRE ALARM. MODIFY EXISTING DOOR HOLDERS TO ADAPT TO THIS REQUIREMENT.
 - CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AS PER GENERAL NOTES ON E-001.
 - ALL DB MEASUREMENTS TO BE CONDUCTED WITH DOORS OPEN EXCEPT FOR SLEEPING ROOMS.

FOR CONTINUATION
SEE E-302A

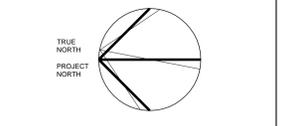
FOR CONTINUATION
SEE E-302B

FOR CONTINUATION
SEE E-302A

FOR CONTINUATION
SEE E-302B

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NORTH

KEYPLAN

CEL #17504.E02

No.	Revision Description	Date
6.	FOR AS-BUILTS	2019-08-20
5.	ISSUED FOR CONSTRUCTION	2018-10-15
4.	ISSUED FOR ADD E01	2018-05-10
3.	ISSUED FOR BUILDING PERMIT	2018-05-07
2.	ISSUED FOR TENDER	2018-04-09
1.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged
FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

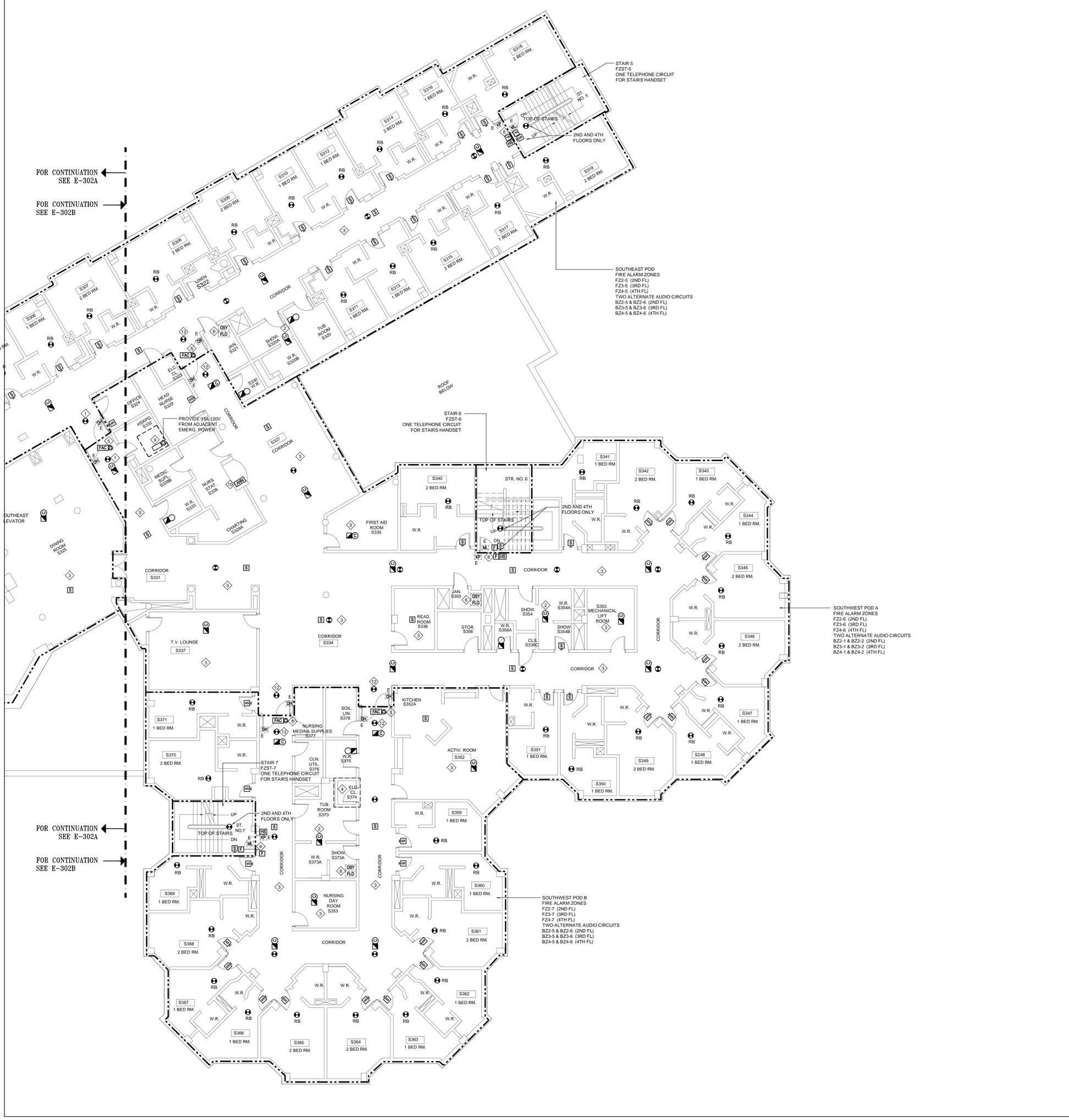
205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

Project
TYPICAL 2ND, 3RD & 4TH FLOOR FIRE ALARM SYSTEM LAYOUT SOUTHBOUND

Title
 LN NOVEMBER 2017
 Drawn by date
 NN/LN 1:100
 Checked by Scale
 17504.F01
 Project No.

E-302B

Drawing no. LAST EDIT: 08/MAY/18 16:13:43



- NOTES**
- PROVIDE RELAY BASE TO SMOKE DETECTOR FOR ELEVATOR RECALL AT ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT.
 - AREAS WITH DRYWALL CEILINGS, FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING DRYWALL CEILINGS.
 - AREAS WITH T-BAR CEILINGS, FIRE ALARM DEVICES SHALL BE INSTALLED ON EXISTING CEILING TILES.
 - LOCATION OF EXISTING FIRE ALARM PANELS.
 - EXISTING DOOR HOLDERS TO REMAIN, RECONNECT EXISTING POWER CIRCUITS TO NEW FIRE ALARM SYSTEM RELEASE CONTROLS.
 - EXACT LOCATION OF MECHANICAL SPRINKLER FLOW SWITCHES, SUPERVISORY VALVES AND PRESSURE SWITCHES ETC., TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM SHALL BE VERIFIED ON SITE. REFER TO FIRE ALARM SCHEDULE E-500 FOR MORE DETAILS.
 - IN SECOND & THIRD FLOORS RESIDENT ROOMS, MOUNT NEW SMOKE DETECTORS ON EXISTING DRYWALL CEILINGS. EXACT LOCATION OF THE SMOKE DETECTORS WITHIN THE RESIDENT ROOMS TO BE DETERMINED DURING CONSTRUCTION. PROVIDE RELAY BASE FOR ALL SMOKE DETECTORS IN RESIDENT ROOMS.
 - CONTRACTOR TO PROVIDE AUXILIARY CONTACTS TO PULL STATION AND EXISTING ELECTROMAGNETIC LOCKS SO THAT MAGLOCKS ARE RELEASED IMMEDIATELY UPON ACTIVATION OF:
 - THE ALERT SIGNAL.
 - LOSS OF POWER TO THE FACP OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS.
 - ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO THE AUTHORIZED PERSONNEL AND LOCATED AT FIRE ALARM ANNUNCIATOR.
 - THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600mm FROM THE DOORFRAME.
 - UPON RELEASE, THE LOCKING DEVICE MUST RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED IN NOTE (i).
 - THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM SYSTEM, CAUSES ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION.
 - CONTRACTOR TO MODIFY EXISTING MAGLOCK SYSTEM AS NEEDED TO ADAPT THIS REQUIREMENT.
 - LOCATION OF NEW FIRE ALARM DGP PANELS IN HSKPS S232, S332 AND S432. REFER TO FIRE ALARM RISER DIAGRAM E-600 FOR MORE DETAILS.
 - LCD REMOTE FIRE ALARM ANNUNCIATOR, EXACT LOCATION TO BE DETERMINED. AUDIBLE AND VISIBLE SIGNAL SHALL BE ON IF ANY OF THE BEDROOM'S SMOKE ACTIVATED WITH ROOM NUMBER LOCATIONS TO BE ANNUNCIATED.
 - CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AS PER GENERAL NOTES ON E-001.
 - PROVIDE ADDRESSABLE RELAYS AND/OR RELAY BASES IN SMOKE DETECTORS ON BOTH SIDES OF DOORWAYS AND ACTIVATE ON SMOKE OR FIRE ALARM, RELEASE THE DOORS ON 1ST STAGE FIRE ALARM. MODIFY EXISTING DOOR HOLDERS TO ADAPT TO THIS REQUIREMENT.
 - ALL DB MEASUREMENTS TO BE CONDUCTED WITH DOORS OPEN EXCEPT FOR SLEEPING ROOMS.

FOR CONTINUATION SEE E-302A
 FOR CONTINUATION SEE E-302B

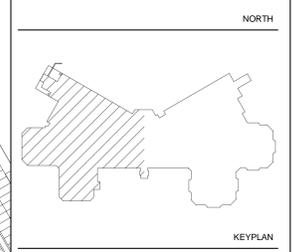
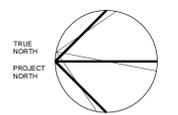
FOR CONTINUATION SEE E-302A
 FOR CONTINUATION SEE E-302B

CEL CAD FILE: Drawings\0371\17504-E02 - Cumber Lodge FABRIC.spr\Wksp\A\E-302B.dwg (User)

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CEL #17504.E02

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged

FIRE ALARM AND
NURSE CALL SYSTEM
REPLACEMENT

205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

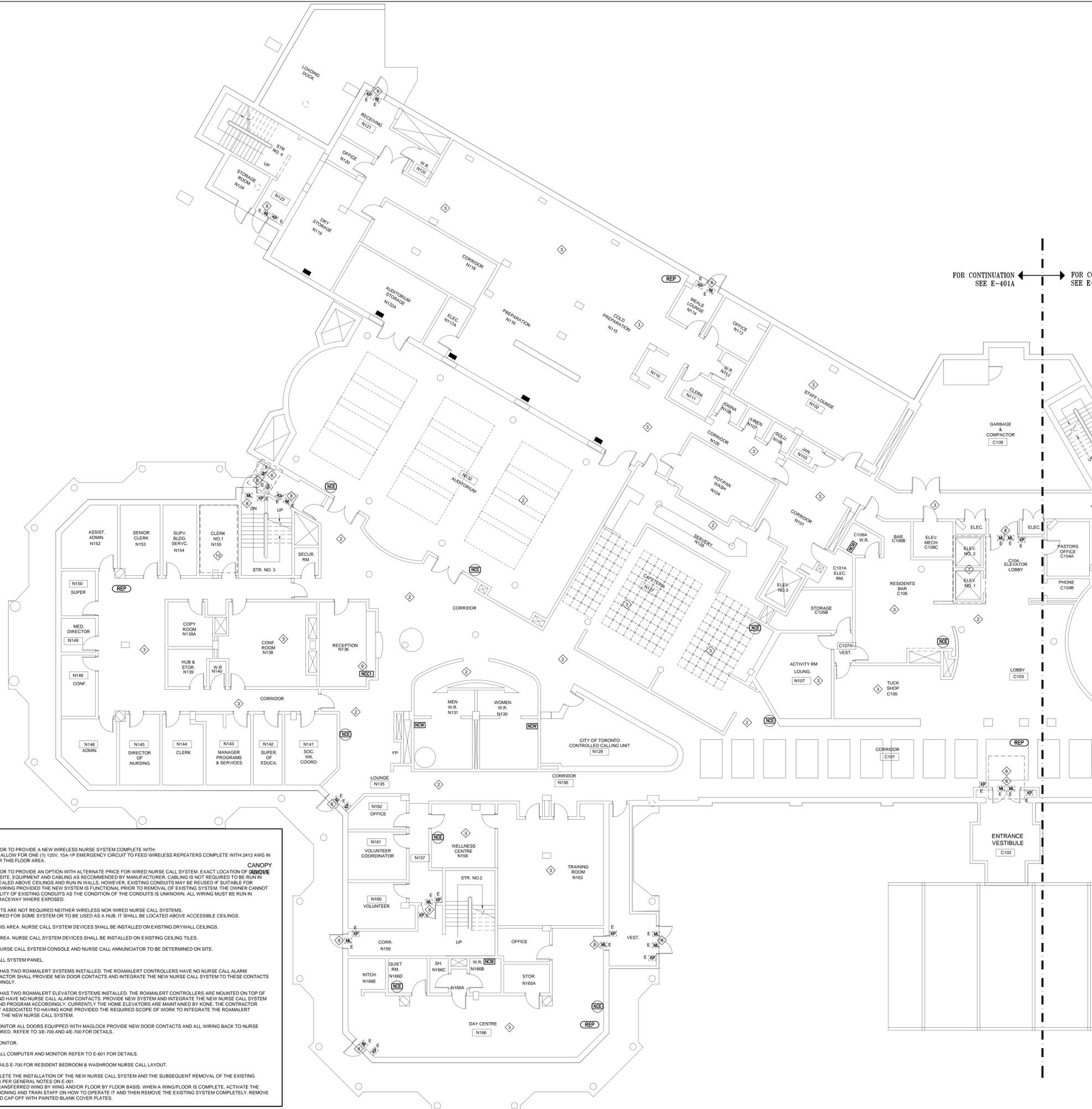
GROUND FLOOR
NURSE CALL SYSTEM LAYOUT
NORTHBOUND

Title _____
 LN _____ NOVEMBER 2017
 Drawn by _____ date
 NN/LN _____ 1:100
 Checked by _____ Scale
 17504.F01
 Project No. _____

E-401A

Drawing no. _____
 LAST EDIT: 05/JAN/18 10:56:35

- NOTES**
- ELECTRICAL CONTRACTOR TO PROVIDE A NEW WIRELESS NURSE SYSTEM COMPLETE WITH WIRELESS REPEATERS. ALLOW FOR ONE (1) 120V, 15A-1P EMERGENCY CIRCUIT TO FEED WIRELESS REPEATERS COMPLETE WITH 2#12 AWG IN 19mm EMT CONDUIT FOR THIS FLOOR AREA.
 - CANOPY**
 ELECTRICAL CONTRACTOR TO PROVIDE AN OPTION WITH ALTERNATE PRICE FOR WIRED NURSE CALL SYSTEM. EXACT LOCATION OF CANOPY TO BE DETERMINED ON SITE. EQUIPMENT AND CABLING AS RECOMMENDED BY MANUFACTURER. CABLING IS NOT REQUIRED TO BE RUN IN CONDUIT WHERE CONCEALED ABOVE CEILINGS AND RUN IN WALLS, HOWEVER, EXISTING CONDUITS MAY BE REUSED IF SUITABLE FOR INSTALLATION OF NEW WIRING PROVIDED THE NEW SYSTEM IS FUNCTIONAL PRIOR TO REMOVAL OF EXISTING SYSTEM. THE OWNER CANNOT ADVISE ON THE SUITABILITY OF EXISTING CONDUITS AS THE CONDITION OF THE CONDUITS IS UNKNOWN. ALL WIRING MUST BE RUN IN CONDUIT OR SURFACE RACEWAY WHERE EXPOSED.
 - NURSE CALL DOME LIGHTS ARE NOT REQUIRED NEITHER WIRELESS NOR WIRED NURSE CALL SYSTEMS.
 IF DOME LIGHT IS REQUIRED FOR SOME SYSTEM OR TO BE USED AS A HUB, IT SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
 - DRYWALL CEILING IN THIS AREA. NURSE CALL SYSTEM DEVICES SHALL BE INSTALLED ON EXISTING DRYWALL CEILINGS.
 - T-BAR CEILING IN THIS AREA. NURSE CALL SYSTEM DEVICES SHALL BE INSTALLED ON EXISTING CEILING TILES.
 - EXACT LOCATION FOR NURSE CALL SYSTEM CONSOLE AND NURSE CALL ANNUNCIATOR TO BE DETERMINED ON SITE.
 - LOCATION OF NURSE CALL SYSTEM PANEL.
 - THE HOME CURRENTLY HAS TWO ROAMALERT SYSTEMS INSTALLED. THE ROAMALERT CONTROLLERS HAVE NO NURSE CALL ALARM CONTACTS. THE CONTRACTOR SHALL PROVIDE NEW DOOR CONTACTS AND INTEGRATE THE NEW NURSE CALL SYSTEM TO THESE CONTACTS AND PROGRAM ACCORDINGLY.
 - THE HOME CURRENTLY HAS TWO ROAMALERT ELEVATOR SYSTEMS INSTALLED. THE ROAMALERT CONTROLLERS ARE MOUNTED ON TOP OF THE ELEVATOR CABS AND HAVE NO NURSE CALL CONTACTS. PROVIDE NEW SYSTEM AND INTEGRATE THE NEW NURSE CALL SYSTEM TO THESE CONTACTS AND PROGRAM ACCORDINGLY. CURRENTLY THE HOME ELEVATORS ARE MAINTAINED BY KONE. THE CONTRACTOR SHALL CARRY THE COST ASSOCIATED TO HAVING KONE PROVIDED THE REQUIRED SCOPE OF WORK TO INTEGRATE THE ROAMALERT ELEVATOR SYSTEMS TO THE NEW NURSE CALL SYSTEM.
 - NEW NURSE CALL TO MONITOR ALL DOORS EQUIPPED WITH MAGLOCK PROVIDE NEW DOOR CONTACTS AND ALL WIRING BACK TO NURSE CALL SYSTEM AS REQUIRED. REFER TO 3E-700 AND 4E-700 FOR DETAILS.
 - NURSE CALL SYSTEM MONITOR.
 - LOCATION OF NURSE CALL COMPUTER AND MONITOR REFER TO E-601 FOR DETAILS.
 - REFER TO TYPICAL DETAILS E-700 FOR RESIDENT BEDROOM & WASHROOM NURSE CALL LAYOUT.
 - CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW NURSE CALL SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING NURSE CALL SYSTEM AS PER GENERAL NOTES ON E-001.
 THE SYSTEM WILL BE TRANSFERRED WING BY WING AND/OR FLOOR BY FLOOR BASIS. WHEN A WING/FLOOR IS COMPLETE, ACTIVATE THE NEW SYSTEM, COMMISSIONING AND TRAIN STAFF ON HOW TO OPERATE IT AND THEN REMOVE THE EXISTING SYSTEM COMPLETELY. REMOVE ALL EXISTING WIRES AND CAP OFF WITH PAINTED BLANK COVER PLATES.

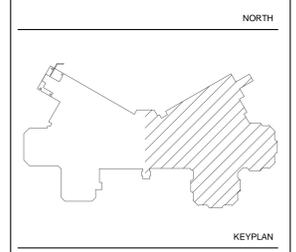
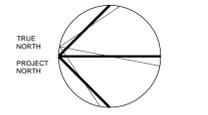


FOR CONTINUATION SEE E-401A ←

← FOR CONTINUATION SEE E-401B

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CEL #17504.E02

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
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4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

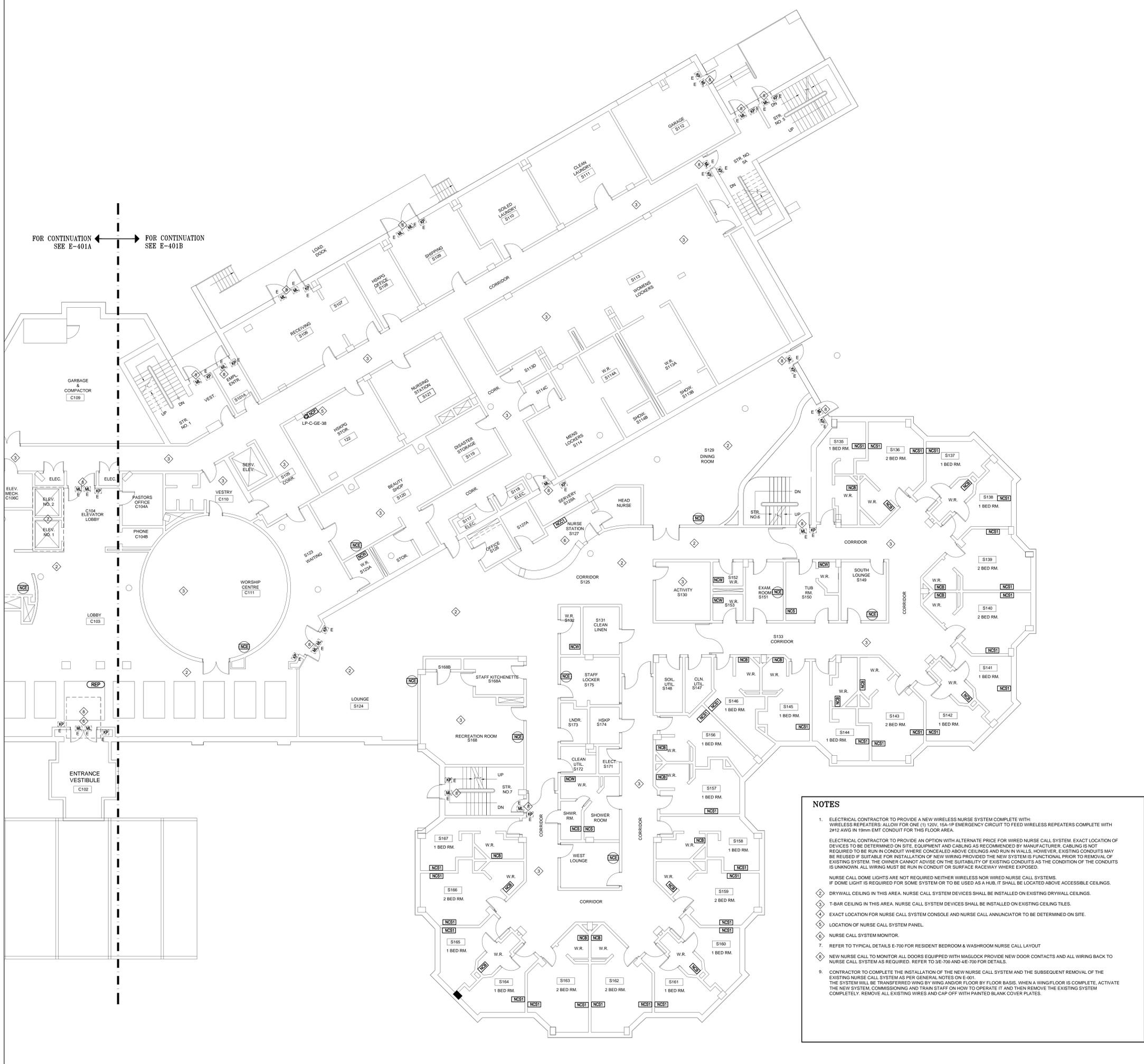
CUMMER LODGE
 Home for the Aged
FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

GROUND FLOOR NURSE CALL SYSTEM LAYOUT SOUTHBOUND

Title: _____
 LN: _____ NOVEMBER 2017
 Drawn by: _____ date
 NN/LN: _____
 Checked by: _____ Scale
 17504.F01
 Project No. _____

E-401B
 Drawing no.



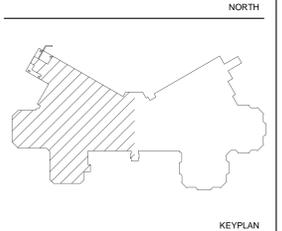
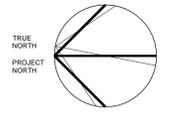
FOR CONTINUATION SEE E-401A ←
 → FOR CONTINUATION SEE E-401B

NOTES

- ELECTRICAL CONTRACTOR TO PROVIDE A NEW WIRELESS NURSE SYSTEM COMPLETE WITH WIRELESS REPEATERS ALLOW FOR ONE (1) 100V, 15A 1P EMERGENCY CIRCUIT TO FEED WIRELESS REPEATERS COMPLETE WITH 2#12 AWG IN 19mm EMT CONDUIT FOR THIS FLOOR AREA.
- ELECTRICAL CONTRACTOR TO PROVIDE AN OPTION WITH ALTERNATE PRICE FOR WIRED NURSE CALL SYSTEM. EXACT LOCATION OF DEVICES TO BE DETERMINED ON SITE. EQUIPMENT AND CABLING AS RECOMMENDED BY MANUFACTURER. CABLING IS NOT REQUIRED TO BE RUN IN CONDUIT WHERE CONCEALED ABOVE CEILINGS AND RUN IN WALLS; HOWEVER, EXISTING CONDUITS MAY BE REUSED IF SUITABLE FOR INSTALLATION OF NEW WIRING PROVIDED THE NEW SYSTEM IS FUNCTIONAL PRIOR TO REMOVAL OF EXISTING SYSTEM. THE OWNER CANNOT ADVISE ON THE SUITABILITY OF EXISTING CONDUITS AS THE CONDITION OF THE CONDUITS IS UNKNOWN. ALL WIRING MUST BE RUN IN CONDUIT OR SURFACE RACEWAY WHERE EXPOSED.
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- LOCATION OF NURSE CALL SYSTEM PANEL.
- NURSE CALL SYSTEM MONITOR.
- REFER TO TYPICAL DETAILS E-700 FOR RESIDENT BEDROOM & WASHROOM NURSE CALL LAYOUT
- NEW NURSE CALL TO MONITOR ALL DOORS EQUIPPED WITH MAGLOCK PROVIDE NEW DOOR CONTACTS AND ALL WIRING BACK TO NURSE CALL SYSTEM AS REQUIRED. REFER TO 3E-700 AND 4E-700 FOR DETAILS.
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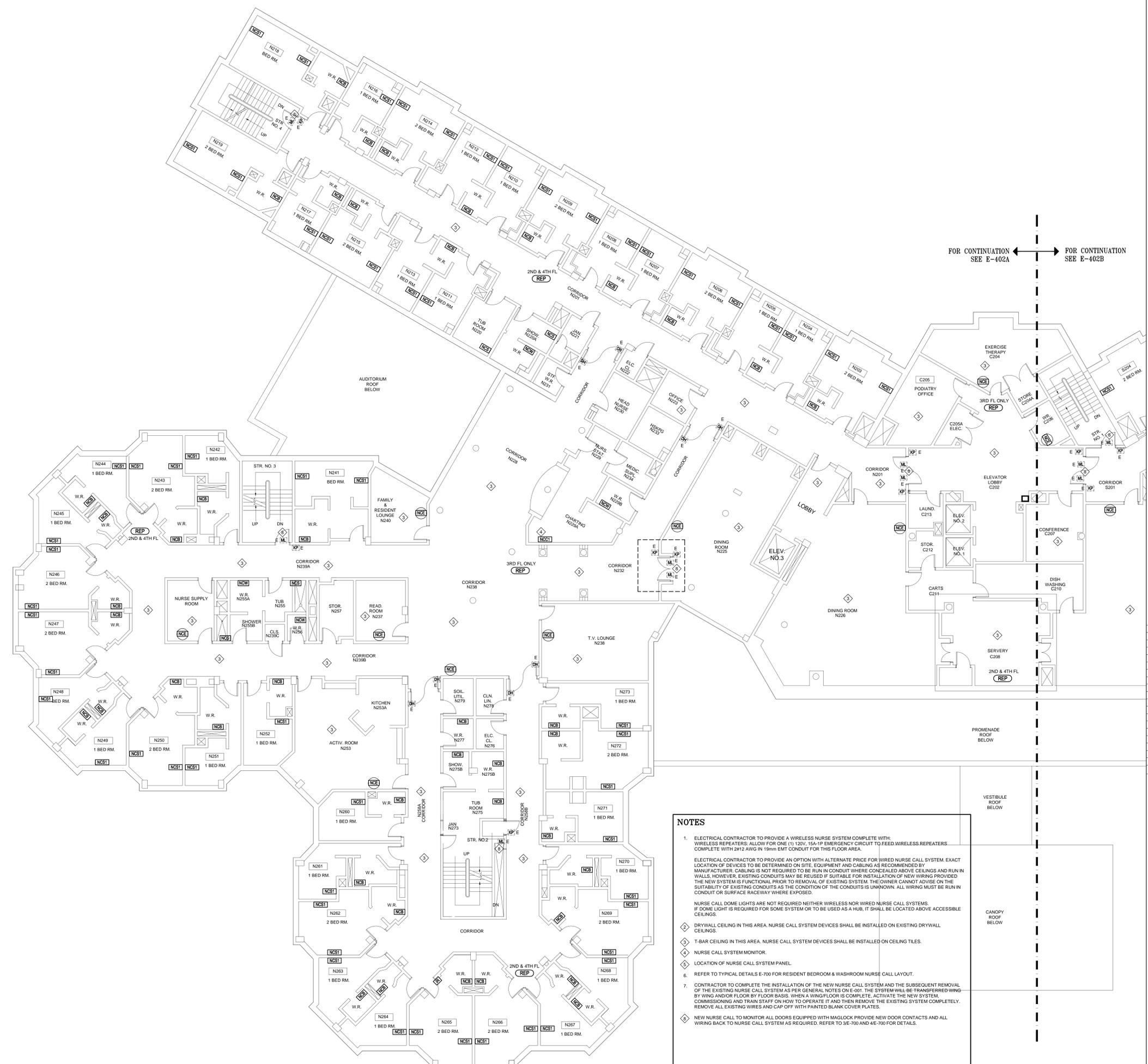
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KEYPLAN

CEL #17504.E02



FOR CONTINUATION SEE E-402A ← → FOR CONTINUATION SEE E-402B

NOTES

- ELECTRICAL CONTRACTOR TO PROVIDE A WIRELESS NURSE SYSTEM COMPLETE WITH WIRELESS REPEATERS. ALLOW FOR ONE (1) 120V, 15A-1P EMERGENCY CIRCUIT TO FEED WIRELESS REPEATERS. COMPLETE WITH 2#12 AWG IN 19mm EMT CONDUIT FOR THIS FLOOR AREA.
- ELECTRICAL CONTRACTOR TO PROVIDE AN OPTION WITH ALTERNATE PRICE FOR WIRELESS NURSE CALL SYSTEM. EXACT LOCATION OF DEVICES TO BE DETERMINED ON SITE. EQUIPMENT AND CABLING AS RECOMMENDED BY MANUFACTURER. CABLING IS NOT REQUIRED TO BE RUN IN CONDUIT WHERE CONCEALED ABOVE CEILINGS AND RUN IN WALLS. HOWEVER, EXISTING CONDUITS MAY BE REUSED IF SUITABLE FOR INSTALLATION OF NEW WIRING PROVIDED THE NEW SYSTEM IS FUNCTIONAL PRIOR TO REMOVAL OF EXISTING SYSTEM. THE OWNER CANNOT ADVISE ON THE SUITABILITY OF EXISTING CONDUITS AS THE CONDITION OF THE CONDUITS IS UNKNOWN. ALL WIRING MUST BE RUN IN CONDUIT OR SURFACE RACEWAY WHERE EXPOSED.
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- T-BAR CEILING IN THIS AREA. NURSE CALL SYSTEM DEVICES SHALL BE INSTALLED ON CEILING TILES.
- NURSE CALL SYSTEM MONITOR.
- LOCATION OF NURSE CALL SYSTEM PANEL.
- REFER TO TYPICAL DETAILS E-700 FOR RESIDENT BEDROOM & WASHROOM NURSE CALL LAYOUT.
- CONTRACTOR TO COMPLETE THE INSTALLATION OF THE NEW NURSE CALL SYSTEM AND THE SUBSEQUENT REMOVAL OF THE EXISTING NURSE CALL SYSTEM AS PER GENERAL NOTES ON E-001. THE SYSTEM WILL BE TRANSFERRED WING BY WING AND/OR FLOOR BY FLOOR BASIS. WHEN A WING/FLOOR IS COMPLETE, ACTIVATE THE NEW SYSTEM, COMMISSIONING AND TRAIN STAFF ON HOW TO OPERATE IT AND THEN REMOVE THE EXISTING SYSTEM COMPLETELY. REMOVE ALL EXISTING WIRES AND CAP OFF WITH PAINTED BLANK COVER PLATES.
- NEW NURSE CALL TO MONITOR ALL DOORS EQUIPPED WITH MAGLOCK PROVIDE NEW DOOR CONTACTS AND ALL WIRING BACK TO NURSE CALL SYSTEM AS REQUIRED. REFER TO 3E-700 AND 4E-700 FOR DETAILS.

No.	Revision Description	Date
6.	ISSUED FOR CONSTRUCTION	2018-10-15
5.	ISSUED FOR ADD E01	2018-05-10
4.	ISSUED FOR BUILDING PERMIT	2018-05-07
3.	ISSUED FOR TENDER	2018-04-09
2.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
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FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

TYPICAL 2ND, 3RD & 4TH FLOOR NURSE CALL SYSTEM LAYOUT NORTH BOUND

Title: _____
 LN _____ NOVEMBER 2017
 Drawn by: NN/LN date: 1:100
 Checked by: 17504.F01 Scale: _____
 Project No. _____

E-402A

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NORTH

KEYPLAN

CEL #17504.E02

No.	Revision Description	Date
6.	FOR AS-BUILTS	2019-08-20
5.	ISSUED FOR CONSTRUCTION	2018-10-15
4.	ISSUED FOR ADD E01	2018-05-10
3.	ISSUED FOR BUILDING PERMIT	2018-05-07
2.	ISSUED FOR TENDER	2018-04-09
1.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

No.	Revision Description	Date
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1.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE Home for the Aged FIRE ALARM AND NURSE CALL SYSTEM REPLACEMENT

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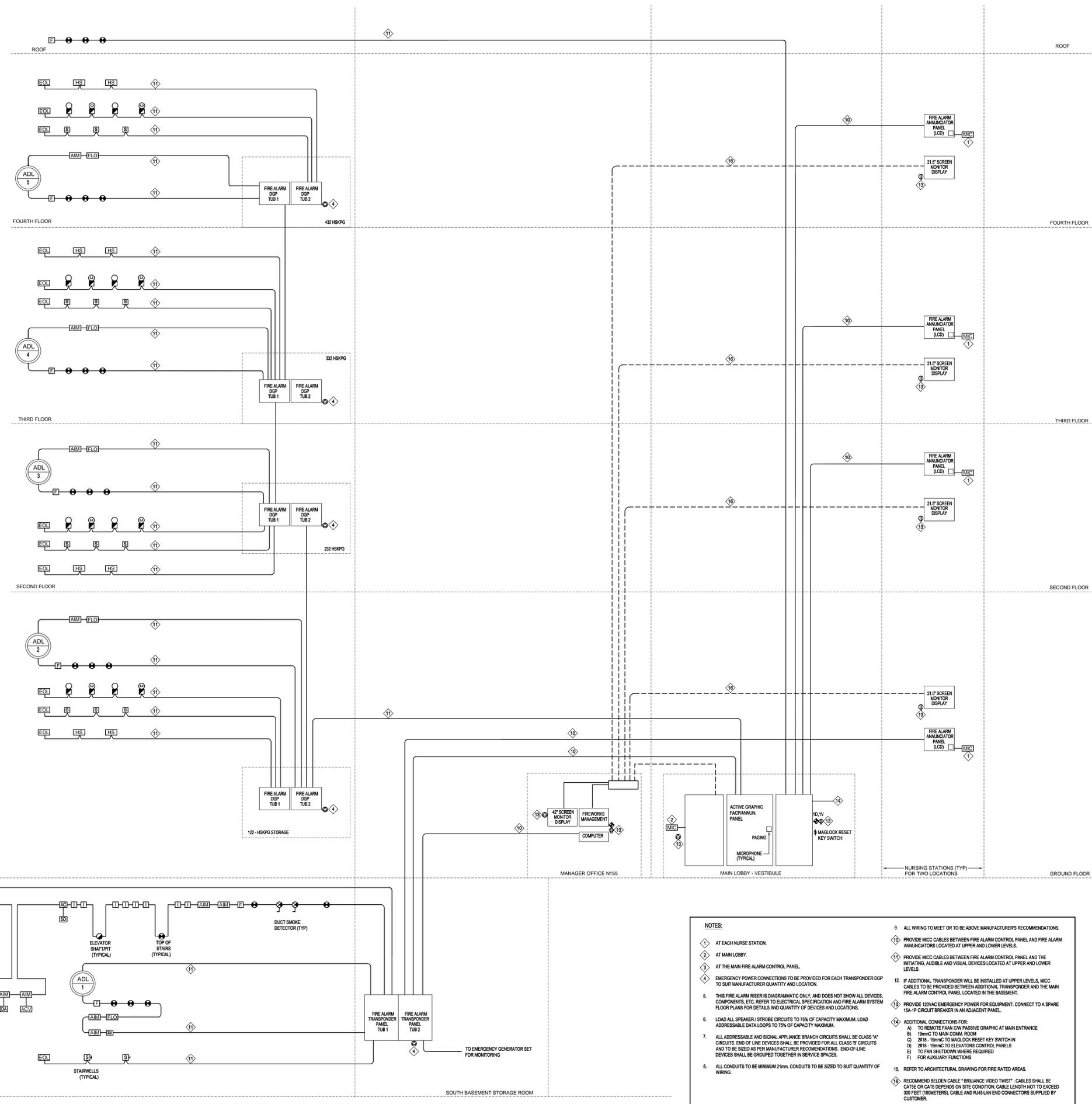
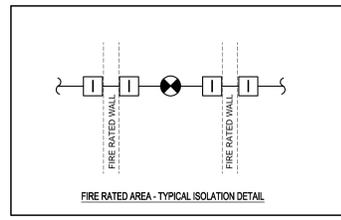
Project

FIRE ALARM SYSTEM RISER DIAGRAM

Title
 LN NOVEMBER 2017
 Drawn by date
 NN/LN N.T.S.
 Checked by Scale
 17504.F01
 Project No.

E-600

Drawing no.



- NOTES:
1. AT EACH NURSE STATION.
 2. AT MAIN LOBBY.
 3. AT THE MAIN FIRE ALARM CONTROL PANEL.
 4. EMERGENCY POWER CONNECTIONS TO BE PROVIDED FOR EACH TRANSPODER DGP TO SUIT MANUFACTURER QUANTITY AND LOCATION.
 5. THIS FIRE ALARM RISER IS DIAGRAMMATIC ONLY, AND DOES NOT SHOW ALL DEVICES, COMPONENTS, ETC. REFER TO ELECTRICAL SPECIFICATION AND FIRE ALARM SYSTEM FLOOR PLANS FOR DETAILS AND QUANTITY OF DEVICES AND LOCATIONS.
 6. LOAD ALL SPEAKER / STROBE CIRCUITS TO 75% OF CAPACITY MAXIMUM. LOAD ADDRESSABLE DATA LOOPS TO 75% OF CAPACITY MAXIMUM.
 7. ALL ADDRESSABLE AND SIGNAL APPLIANCE BRANCH CIRCUITS SHALL BE CLASS "A" CIRCUITS. END OF LINE DEVICES SHALL BE PROVIDED FOR ALL CLASS "B" CIRCUITS AND TO BE SIZED AS PER MANUFACTURER RECOMMENDATIONS. END-OF-LINE DEVICES SHALL BE GROUPED TOGETHER IN SERVICE SPACES.
 8. ALL CONDUITS TO BE MINIMUM 21mm. CONDUITS TO BE SIZED TO SUIT QUANTITY OF WIRING.
 9. ALL WIRING TO MEET OR TO BE ABOVE MANUFACTURERS RECOMMENDATIONS.
 10. PROVIDE MICC CABLES BETWEEN FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATORS LOCATED AT UPPER AND LOWER LEVELS.
 11. PROVIDE MICC CABLES BETWEEN FIRE ALARM CONTROL PANEL AND THE INITIATING, AUDIBLE AND VISUAL DEVICES LOCATED AT UPPER AND LOWER LEVELS.
 12. IF ADDITIONAL TRANSPODER WILL BE INSTALLED AT UPPER LEVELS, MICC CABLES TO BE PROVIDED BETWEEN ADDITIONAL TRANSPODER AND THE MAIN FIRE ALARM CONTROL PANEL LOCATED IN THE BASEMENT.
 13. PROVIDE 120VAC EMERGENCY POWER FOR EQUIPMENT. CONNECT TO A SPARE 15A-1P CIRCUIT BREAKER IN AN ADJACENT PANEL.
 14. ADDITIONAL CONNECTIONS FOR:
 - A) TO REMOTE FAN ON PASSIVE GRAPHIC AT MAIN ENTRANCE
 - B) 19mC TO MAIN COMM. ROOM
 - C) 2018 - 19mC TO MAGLOCK RESET KEY SWITCH IN
 - D) 2018 - 19mC TO ELEVATORS CONTROL PANELS
 - E) TO FAN SHUTDOWN WHERE REQUIRED
 - F) FOR AUXILIARY FUNCTIONS
 15. REFER TO ARCHITECTURAL DRAWING FOR FIRE RATED AREAS.
 16. RECOMMEND BELDEN CABLE "BRILLIANCE VIDEO TWIST" CABLES SHALL BE CAT5E OR CAT6 DEPENDS ON SITE CONDITION. CABLE LENGTH NOT TO EXCEED 300 FEET (90 METERS). CABLE AND PANEL END CONNECTORS SUPPLIED BY CUSTOMER.

GROUND FLOOR

BASEMENT

FOURTH FLOOR

THIRD FLOOR

SECOND FLOOR

FOURTH FLOOR

THIRD FLOOR

SECOND FLOOR

GROUND FLOOR

SOUTH BASEMENT STORAGE ROOM

122-HSKPG STORAGE

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
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FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

332 HSKPG

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

482 HSKPG

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

FIRE ALARM DGP TUB 1
 FIRE ALARM DGP TUB 2

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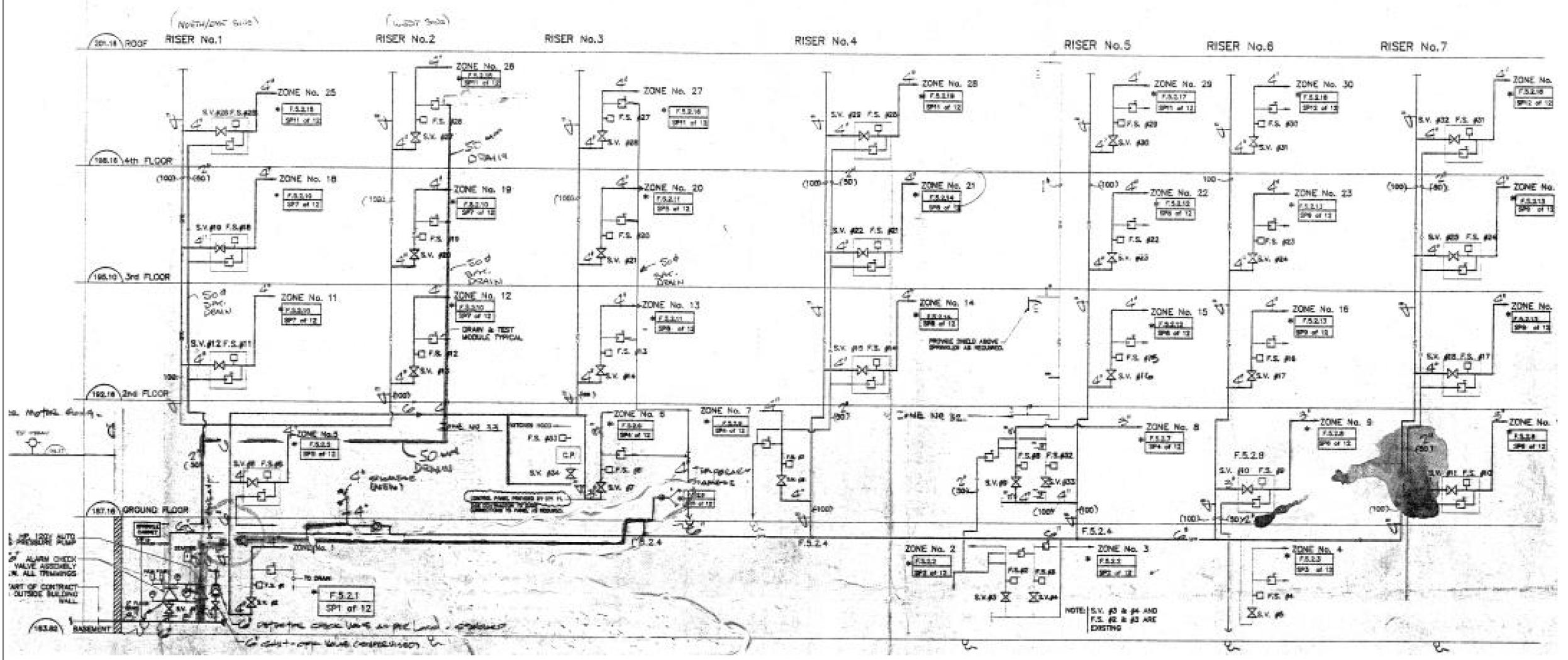
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NOTES:
 CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON THE JOB.
 DO NOT SCALE DRAWINGS.
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CROSEY
 ENGINEERING
 LTD.
 2255 Sheppard Avenue, E.
 Suite E 331
 North York, On M2J 4Y1
 (416)497.3111 fax (416)497.7210

PRESSURE GAUGE MAY BE REQUIRED
 AT TOP OF RISER'S SPRINKLER CABINET



NORTH

KEYPLAN

CEL 17504 E02

EXISTING SPRINKLER NOTES:

1. DRAWINGS DO NOT SHOW ALL EXISTING SPRINKLER VALVES TO BE CONNECTED TO NEW FIRE ALARM CONNECTIONS. ELECTRICAL CONTRACTOR TO INSPECT ON SITE AND VERIFY THE EXISTING SPRINKLER ZONES, VALVES THAT REQUIRES FIRE ALARM REPLACEMENT PRIOR TO THE SUBMISSION OF BID.
2. THIS DRAWING IS A COPY OF THE ORIGINAL DRAWINGS FOR THE BUILDING AND DO NOT NECESSARILY SHOW ALL RENOVATIONS THAT HAVE OCCURRED IN THE BUILDING. THE INTENT OF THIS DRAWING IS TO SHOW THE GENERAL EXTENT AND SCOPE OF WORK TO ACCOMMODATE THE PARTIAL DEMOLITION OF THE BUILDING.
3. CONSULT WITH THE OWNER AND CREATE A LIST OF ANY ITEMS TO BE SAVED AND THE CONDITION THEY ARE IN. REMOVE FROM SITE ALL REMAINING DEMOLISHED ELECTRICAL MATERIALS. WHERE DEVICES ARE TO BE HANDED OVER TO OWNER, STORE IN A LOCATION DIRECTED ON SITE.

No.	Revision Description	Date
6.	FOR AS-BUILTS	2019-08-20
5.	ISSUED FOR CONSTRUCTION	2018-10-15
4.	ISSUED FOR ADD E01	2018-05-10
3.	ISSUED FOR BUILDING PERMIT	2018-05-07
2.	ISSUED FOR TENDER	2018-04-09
1.	ISSUED FOR COSTING	2018-03-07
1.	ISSUED FOR 75% REVIEW	2018-01-26

CUMMER LODGE
 Home for the Aged
 FIRE ALARM AND
 NURSE CALL SYSTEM
 REPLACEMENT

205 CUMMER AVENUE
 WILLOWDALE, ON M2M 2E8

Project

SCHEMATIC SPRINKLER
 RISER DIAGRAM - EXISTING

Title
 LN NOVEMBER 2017
 Drawn by date
 NN/LN N.T.S.
 Checked by Scale
 17504.F01
 Project No.

NOTES:
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KEYPLAN

CEL #17504.E02

Seal

No.	Revision Description	Date
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CUMMER LODGE
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Project

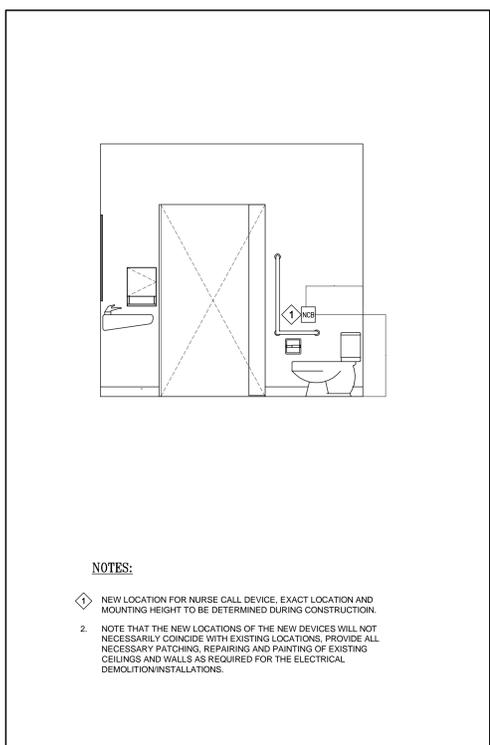
ELECTRICAL DETAILS

Title
 LN NOVEMBER 2017
 Drawn by date
 NN/LN N.T.S.
 Checked by Scale
 17504.F01
 Project No.

E-700

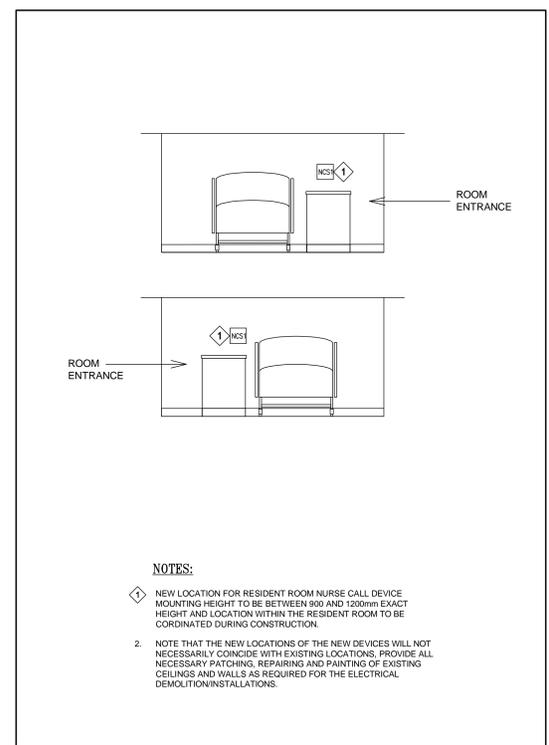
Drawing no.

CONDUIT TRADE SIZE	CABLE OUTSIDE DIAMETER, mm (in)					
	5.6 (0.22)	6.1 (0.24)	7.4 (0.29)	7.9 (0.31)	9.4 (0.37)	13.5 (0.53)
16 (1/2)	0	0	0	0	0	0
21 (3/4)	4	3	2	2	1	0
27 (1)	7	6	3	3	2	1
35 (1 1/4)	12	10	6	4	3	1
41 (1 1/2)	16	15	7	6	4	2
53 (2)	22	20	14	12	7	4
63 (2 1/2)	36	30	17	14	12	6
78 (3)	50	40	20	20	17	7
91 (3 1/2)	-	-	-	-	22	12
103 (4)	-	-	-	-	30	14



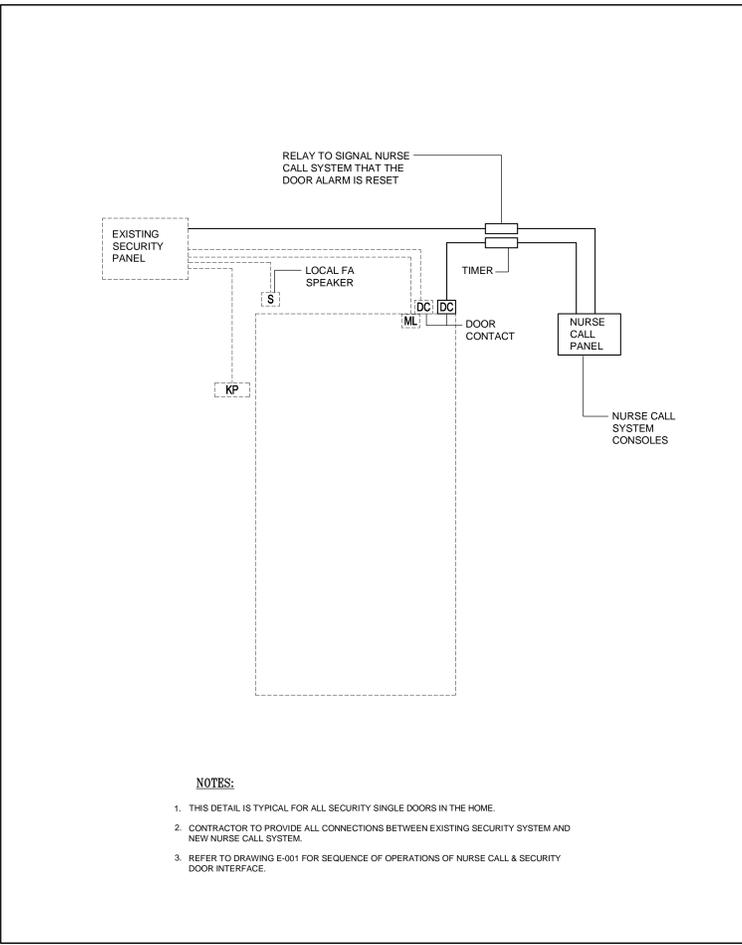
NOTES:
 1. NEW LOCATION FOR NURSE CALL DEVICE. EXACT LOCATION AND MOUNTING HEIGHT TO BE DETERMINED DURING CONSTRUCTION.
 2. NOTE THAT THE NEW LOCATIONS OF THE NEW DEVICES WILL NOT NECESSARILY COINCIDE WITH EXISTING LOCATIONS. PROVIDE ALL NECESSARY PATCHING, REPAIRING AND PAINTING OF EXISTING CEILINGS AND WALLS AS REQUIRED FOR THE ELECTRICAL DEMOLITION/INSTALLATIONS.

1 TYPICAL WASHROOM - NURSE CALL LAYOUT
 E-700 N.T.S.



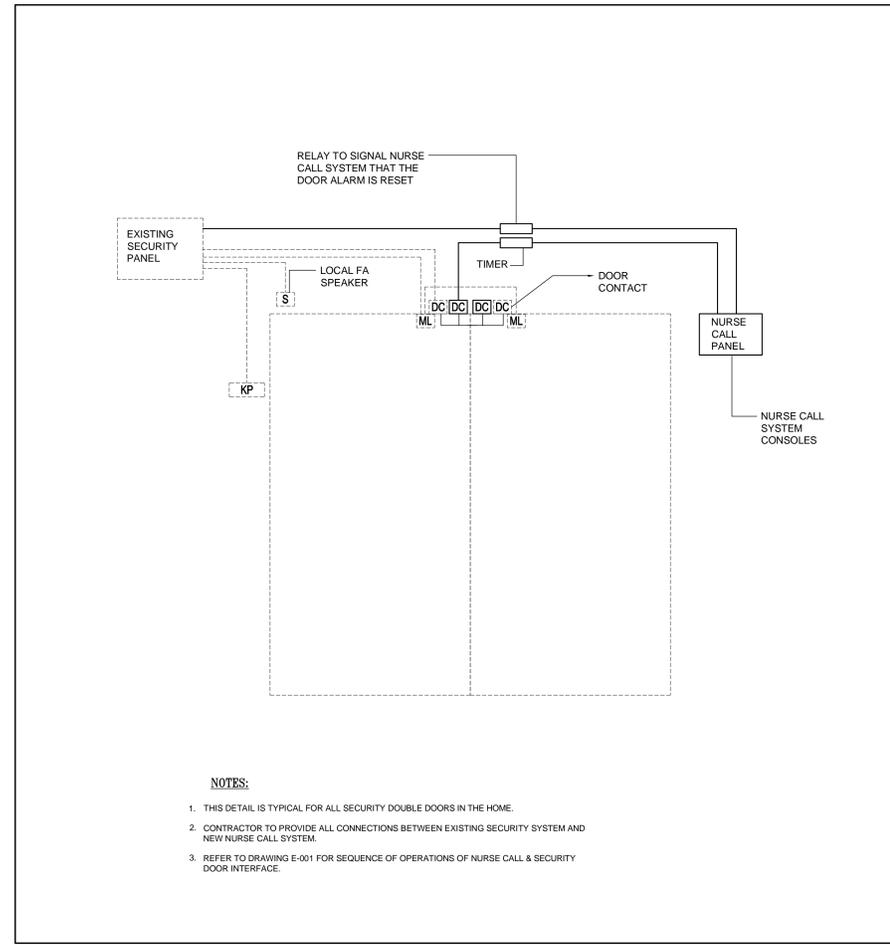
NOTES:
 1. NEW LOCATION FOR RESIDENT ROOM NURSE CALL DEVICE MOUNTING HEIGHT TO BE BETWEEN 900 AND 1200mm EXACT HEIGHT AND LOCATION WITHIN THE RESIDENT ROOM TO BE COORDINATED DURING CONSTRUCTION.
 2. NOTE THAT THE NEW LOCATIONS OF THE NEW DEVICES WILL NOT NECESSARILY COINCIDE WITH EXISTING LOCATIONS. PROVIDE ALL NECESSARY PATCHING, REPAIRING AND PAINTING OF EXISTING CEILINGS AND WALLS AS REQUIRED FOR THE ELECTRICAL DEMOLITION/INSTALLATIONS.

2 TYPICAL BEDROOM - NURSE CALL LAYOUT
 E-700 N.T.S.



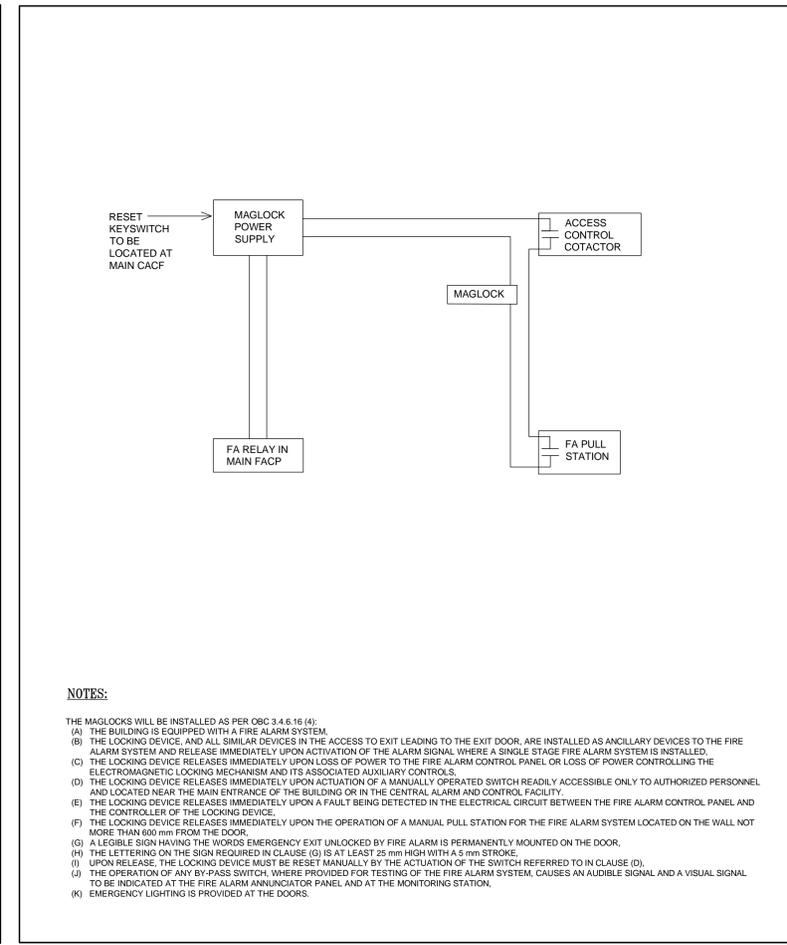
NOTES:
 1. THIS DETAIL IS TYPICAL FOR ALL SECURITY SINGLE DOORS IN THE HOME.
 2. CONTRACTOR TO PROVIDE ALL CONNECTIONS BETWEEN EXISTING SECURITY SYSTEM AND NEW NURSE CALL SYSTEM.
 3. REFER TO DRAWING E-001 FOR SEQUENCE OF OPERATIONS OF NURSE CALL & SECURITY DOOR INTERFACE.

3 NURSE CALL/SECURITY SYSTEM SINGLE DOOR INTERFACE DETAIL
 E-700 SCALE: NTS



NOTES:
 1. THIS DETAIL IS TYPICAL FOR ALL SECURITY DOUBLE DOORS IN THE HOME.
 2. CONTRACTOR TO PROVIDE ALL CONNECTIONS BETWEEN EXISTING SECURITY SYSTEM AND NEW NURSE CALL SYSTEM.
 3. REFER TO DRAWING E-001 FOR SEQUENCE OF OPERATIONS OF NURSE CALL & SECURITY DOOR INTERFACE.

4 NURSE CALL/SECURITY SYSTEM DOUBLE DOOR INTERFACE DETAIL
 E-700 SCALE: NTS



NOTES:
 THE MAGLOCKS WILL BE INSTALLED AS PER OBC 3.4.6.16 (4):
 (A) THE BUILDING IS EQUIPPED WITH A FIRE ALARM SYSTEM.
 (B) THE LOCKING DEVICE, AND ALL SIMILAR DEVICES IN THE ACCESS TO EXIT LEADING TO THE EXIT DOOR, ARE INSTALLED AS AN AUXILIARY DEVICES TO THE FIRE ALARM SYSTEM AND RELEASE IMMEDIATELY UPON ACTIVATION OF THE ALARM SIGNAL WHERE A SINGLE STAGE FIRE ALARM SYSTEM IS INSTALLED.
 (C) THE LOCKING DEVICE RELEASES IMMEDIATELY UPON LOSS OF POWER TO THE FIRE ALARM CONTROL PANEL OR LOSS OF POWER CONTROLLING THE ELECTROMAGNETIC LOCKING MECHANISM AND ITS ASSOCIATED AUXILIARY CONTROLS.
 (D) THE LOCKING DEVICE RELEASES IMMEDIATELY UPON ACTUATION OF A MANUALLY OPERATED SWITCH READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND LOCATED NEAR THE MAIN ENTRANCE OF THE BUILDING OR IN THE CENTRAL ALARM AND CONTROL FACILITY.
 (E) THE LOCKING DEVICE RELEASES IMMEDIATELY UPON A FAULT BEING DETECTED IN THE ELECTRICAL CIRCUIT BETWEEN THE FIRE ALARM CONTROL PANEL AND THE CONTROLLER OF THE LOCKING DEVICE.
 (F) THE LOCKING DEVICE RELEASES IMMEDIATELY UPON THE OPERATION OF A MANUAL PULL STATION FOR THE FIRE ALARM SYSTEM LOCATED ON THE WALL NOT MORE THAN 600 mm FROM THE DOOR.
 (G) A LEGIBLE SIGN HAVING THE WORDS EMERGENCY EXIT UNLOCKED BY FIRE ALARM IS PERMANENTLY MOUNTED ON THE DOOR.
 (H) THE LETTERING ON THE SIGN REQUIRED IN CLAUSE (G) IS AT LEAST 25 mm HIGH WITH A 5 mm STROKE.
 (I) UPON RELEASE, THE LOCKING DEVICE MUST BE RESET MANUALLY BY THE ACTUATION OF THE SWITCH REFERRED TO IN CLAUSE (D).
 (J) THE OPERATION OF ANY BY-PASS SWITCH, WHERE PROVIDED FOR TESTING OF THE FIRE ALARM SYSTEM, CAUSES AN AUDIBLE SIGNAL AND A VISUAL SIGNAL TO BE INDICATED AT THE FIRE ALARM ANNUNCIATOR PANEL AND AT THE MONITORING STATION.
 (K) EMERGENCY LIGHTING IS PROVIDED AT THE DOORS.

5 MAGLOCK WIRING SCHEMATIC
 E-700 N.T.S.