



ZONE MAP DESCRIPTION

KITCHEN/DINER/RECREATION CORE
KITCHEN FIRE SUPPRESSION SYSTEM
SLEEPER 1
SLEEPER 2

1.1.4. 113 1.1.2. 1.1.2. 1.1.1.3. 1.1.1.2. 1.1.1.1 GENERAL FIRE ALARM SPECIFICATION Reference Documents This specification covers the supply and installation of all electrical equipment. All equipment shall be new and be CSA All clauses in the general conditions of contract and supplementary circuit(s). New fire alarm system to be single-stage and consist of four (4) Installation of all equipment shall be performed by skilled the Engineer. general conditions shall apply to this trade. conventional Class B circuit(s) and three (3) Class B notification DESCRIPTION OF SYSTEM Fire Alarm Installation Standard CAN/ULC-S524-06 Canadian Electrical Code 2012 - Section 32 Alberta Building Code 2014 - Section 3.2.4

1.1.9.

craftspersons holding current certificate of proficiency issued pursuant to the tradesmen's qualifications act in respect to the alarm systems. applicable trade. This shall include certification to install fire approved. Do not substitute specified material unless approved by

1.1.6. 1.1.5 and install equipment in such a manner that no damage will be done to the equipment or structure. all damaged equipment shall be responsible for the procurement and delivery of all equipment and material for the satisfactory completion of the work. handle, store The contract includes all apparatus, tool service, materials and replaced at no cost to the Owner. labour to complete all work specified. Contractor shall be

construction and architectural details. Any inconsistency or error in the drawings and/or specifications shall be reported immediately to the Engineer. Co-ordinate with all other trades. slight revision as the work is installed in order to accommodate of various items are approximately correct and are subject to electrical installation and verify in the field all connections to and locations of all existing structures and equipment. The locations drawings and specifications that may have an effect on the It shall be the Contractor's responsibility to examine all other The locations

CONTROL PANEL FIRE ALARM

2c #18 FAS w/GND

the responsibility of the Owner. Submit documents to inspection All utility charges, permits, and fees for the execution of this are department and pay all charges.

1.1.7

contractors and lay out his work in such a way that there is no conflict or interference with other trades. Contractor shall promptly install his equipment so that he does not delay other The electrical contractor shall coordinate with the other

mechanical components. Any additional provisions or changes manufacturer's instructions. Substituted equipment shall not constitute a basis upon which equals shall be established. Substitution will be allowed but only by permission from the require redesign of structural, architectural, electrical or engineer. Work shall be executed in accordance with the required for the equipment shall be the responsibility of the The use of trade names in specifications and on drawings shall

This Confractor shall keep a neat and accurate record of the installation and, at the completion of the job, provide the Engineer with a set of as-built record drawings.

Provide polyvapour hats on all boxes that penetrate a vapour parrier

1.1.12. SHOP DRAWINGS 1.1.11.

1.1.12.1. equipment for review by the Engineer. The appropriate number of copies of shop drawings are to be made by the Contractor after the Engineers' review. No equipment shall be installed Submit one (1) copy of shop drawings of all proposed until such approval is obtained.

DEVICE INSTALLATION

2.1.1

2.1.1.1.

2.1.2.1. Top of panel shall be not more than 2400mm A.F.F. Operating controls shall not be more than 1800mm A.F.F. per ULC S524

2.2.1.1. Where ceiling heights allow, top of audible devices shall be not less than 2300mm A.F.F. Strobe lens shall be between

Mount between 1200mm and 1400mm A.F.F. measured to the centre of the device. Install on the latch side of the door a maximum lateral distance of 1500mm from door. Shall be a

detector and any obstructions. Obstruction not exceeding 100mm from the ceiling need not be considered impinging on this clear space. When smoke detectors are mounted on Clear spacing of minimum 450mm shall be maintained between ceiling, shall be between 100mm to 300mm from edge of device Shall not be located in a direct airflow.

2.2.4. 120V CARBON MONOXIDE ALARM

2.2.5. END-OF-LINE RESISTOR

2.3.1.

2.3.2.1.

Addressable Circuits: 18AWG Solid FAS

120V Power: 12AWG Solid RW90 or NMD90

2.2.1. HORN STROBE

of the device. Two or more visual signal devices in the same 2100mm A.F.F. and 2400mm A.F.F. Wall mounted audible devices shall be at least 150mm below ceiling, measured from the edge field of view shall have signals flash in synchronization, per

2.2.2. MANUAL PULL STATION

clearly visible at all times, per S524, 5.3.

2.2.3. SMOKE DETECTOR - PHOTOELECTRIC

Local sounder, install no less than five (5) feet from fuel

Notification Appliance Circuits: 14AWG Solid FAS

2.3.2.2. Auxiliary Control Circuits: 14AWG Solid FAS

FIRE ALARM PANELS ADDRESSABLE PANEL

2.1.2.

2.2. FIELD DEVICES

135°F or 200°F FIXED TEMP HEAT DETECTOR DETECTOR BASE

burning appliances.

Located in separate enclosure installed less than 1800mm

2.3. CABLE & WIRING

All cable to have ground wire, non-shielded, copper conductors, strapped, min 300V insulation, min 60C, and shall be mechanically protected. All cable in return air plenums shall be FT-4 flame rated. Refer to ULC S524, 3.4 and CEC 32.

2.3.2.3.

2.3.2.4. Conventional Initiating Device Circuits: 18AWG Solid FAS

Contractor to provide complete new system in new Kitchen, Diner &

Four (4) conventional notification device circuit(s) Four (4) conventional initiating device circuit(s)

INSTALLATION

Set all horns to LOW volume.

Rec (Core). Two existing sleeper buildings shall have wiring run back to new Core fire alarm control panet (FACP) and sleeper panels abandoned. Details of sleeper fire alarm system not known at time of release of these drawings. Contractor to investigate and confirm that these systems meet code, including but not limited to 75dB in bedrooms, air handling shutdown, door release, adequate detection,

w w

3.2. Provide separate, lockable, red breaker(s), clearly marked Fire Alarm System in 208V panel.

Make conductor terminations in panels and devices with separate erminal for each conductor. Never twist wires together under

Identify all wires within panels with circuit type & number, positive or negative, send or receive.

Ensure that ground wire is terminated on the grounding screw in all

3.5.

Affix P-Touch labels indicating circuit type and number on every end of line resistor cover plate.

Affix P-Touch labels indicating circuit on all detectors & pull stations Replace existing end-of-line (EOL) resistors in sleepers with compatible type.





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2015-11-02	ISSUED FOR REVIEW	CME
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Chubb EDWARD m

SLAVE LAKE CAMP TIGER CALCIUM

CONRAD A
CONRAD A. Drawn By
Sheet Size





2c #12 w/GND

208V POWER PANEL

120V

2c #14 FAS w/GND

NAC 3 [

NAC 2

SLEEPER 1 NOTIFICATION DEVICES

SLEEPER 2 NOTIFICATION DEVICES

NAC 1E

KITCHEN/DINER/REC NOTIFICATION DEVICES

10C 3C

100 4 0

SLEEPER 2 INITIATING DEVICES

3.8

SLEEPER 1

IDC 2C

SUPPRESSION

100 10

KITCHEN/DINER/REC INITIATING DEVICES

BLOCK DIAGRAM

