

**ADDENDUM NUMBER:** ONE (01)  
**ADDENDUM DATE:** December 05, 2016  
**ISSUED BY:** SEPW Architecture Inc.  
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PH. (306) 652-6457  
**PROJECT:** New Modular Police Building  
Ahtahkakoop, Saskatchewan

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications dated 2016-08-12, previous Addenda if applicable and as noted below. This Addendum consists of 33 pages.

Ensure that all parties are aware of all items included in this Addendum.

**The following revised or additional Drawings and Specifications accompany and form an integral part of this Addendum:**

Dwg. No.	Title	Date of Issue
AR-01	Revised Module 17 Floor Plan	2016/11/30
AR-02	Revised Detail – Gun Locker in Room 132	2016/11/30
SK1	Fall Arrest Anchor Detail	2016/11/23
SK2	Revised Exterior Stair Detail 3/S13	2016/11/30
SK3	HSS Frame Detail	2016/12/05
Spec. Section No.		
08 71 00	DOOR HARDWARE	2016/12/05

**GENERAL**

**G-1-1 REF. RCMP QUESTION & ANSWERS #01**

1. **Q:** In detailed review of the clients drawings and specifications, there are discrepancies between the two, please advise which one to follow.  
**A:** As per GC2810 General Conditions, GC1.2.2 Order of precedence:  
*In the event of any discrepancy or conflict in the information contained in the drawings and specifications, the following rules shall apply:*
  - a. *Specifications shall govern over drawings;*
  - b. *Dimensions shown in figures on drawings shall govern where they differ from dimensions scaled from the same drawings; and*
  - c. *Drawings of a larger scale govern over those of smaller scale.*
  
2. **Q:** How was the fire water pumphouse intended to be connected to the municipal water supply? Does the municipal supply connect directly to the pumphouse or will there be a holding tank that the pumphouse will draw from that is filled with the municipal system? Will this tank (if required) be supplied by us?  
**A:** As indicated in the drawings and specifications, there is no fire water pumphouse and there is no holding tank. Refer to the following drawings:  
M2.1 shows the municipal service and fire lines in the crawlspace.

M3.3 shows the Water Room that houses the sprinkler tree and municipal service.  
M5.1 shows the sprinkler tree detail and sprinkler tree location.  
Refer to Section 21 13 13 for the Water Tests Details on the municipal water supply for firefighting.

3. **Q:** The tendered set of drawings are stamped "Preliminary - Not For Construction". Are these the drawings that we are to price or are there a tender set that should have been posted on the website?  
**A:** These drawings are the ones that should be priced. Remove the "Preliminary Not for Construction" note from all stamped drawings.
4. **Q:** As per the project cover sheet, these module buildings are stated to be constructed indoors and in an environmentally controlled space. I don't see any mention of the requirements of this building in the specifications. Are there any required specifications that are required to be met for this enclosure besides what is covered on the cover page.  
**A:** Refer to specification section 13 42 00.
5. **Q:** At what point in the construction of the modules will have to be met before we are allowed to move modules outdoor?  
**A:** Refer to specification section 13 42 00.
6. **Q:** Does the Issued for Tender drawings and specifications meet the current National Energy Code?  
**A:** As pertains to mechanical scope, the National Energy Code is not specifically listed as a code requirement. However, the mechanical specifications as listed are generally based on the requirements of the National Energy Code and therefore by meeting the requirements of the specification, the National Energy Code requirements will be met.
7. **Q:** The foundation design with the timber piles and concrete cap with HSS cross and longitudinal members is labor and material intensive. We want to propose a conventional screw pile alternative? In fact we could probably cut the number of piles in half by going to screw piles.  
**A:** Bid foundations as specified.
8. **Q:** Drawing S11 shows details attributed to module Unit 3 and 6 which outline concrete, steel framed floor, Q decking and concrete slab in addition to an overhead door. This appears to be incorrect as the floor plans do not show any concrete in those modules. I believe this should be modules 17 and 18?  
**A:** Yes detail 2/S11 & 3/S11 detail title should read "Units 17 & 18" not "Units 3 & 6".
9. **Q:** Section 02 41 13 calls up the removal of existing site work and that all useable lumber, bricks and miscellaneous materials shall become the property of the owner. There is nothing on the drawings showing existing structures. Judging from satellite images the site will have to be cleared and grubbed, is this in scope?  
**A:** Demolition as per 02 41 13 article 1.9 is within scope. Visit site to confirm extent. Refer to Section 31 14 13 Topsoil Stripping and Stockpiling for soil management.

10. **Q:** Drawing S18 calls for a saw cut control joint complete with ethafoam rod however the kerf is much too narrow for the ethafoam to be installed?  
**A:** 6mm saw cut within 18 hours of casting will have sufficient room to install ethafoam rod once shrinkage is complete. It is important that the saw cut be made within the first 18 hours of placement to ensure that initial shrinkage cracking is concentrated at CJ's.
11. **Q:** How wide or far away from the building edge does the rigid insulation extend?  
**A:** Refer to detail 1/A4.1.
12. **Q:** Detail 3/ S6 shows typical HSS extension 525mm from center of pile to edge, detail 1, 2/S6 do not show this extension, but all unit plan view on S2 show all the HSS along the unit width way has extension, Are all the HSS with extension only at unit corner piles along width way? Or are the HSS with extensions at all HSS tubings along width way and length way?  
**A:** HSS to cantilever widthwise for all units except 17 and 18. Units 17 and 18 to cantilever lengthwise. Refer to sketch SK3 for clarification on the direction of the cantilever for the HSS members supporting the units floor structure.
13. **Q:** Are the skirting brackets as per detail 9/S11 only along the exterior perimeter of the building as per detail key plan A/S1, but on drawing S2, S3 as per Detail 1, 2/S6 show each unit has skirt brackets at perimeter of the building, could you please clarify the are the HSS skirt around each unit or around the exterior perimeter of the building?  
**A:** The skirting on brackets is only required around the perimeter of the building. Refer to Crawlspace Plan 1/A2.1.
14. **Q:** Detail 5/S12 elevations do no match the elevations as show in detail 4/S12, which are correct?  
**A:** The elevations on detail 5/S12 are the correct ones.

## **ARCHITECTURAL**

### **A-1-1 REF. SPECIFICATION 08 34 63 – DETENTION DOORS AND FRAMES**

1. **Add:** 2.4.2.7 *Contractor to provide 1 key per door plus one spare key.*

### **A-1-2 REF. SPECIFICATION 08 71 00 – DOOR HARDWARE**

1. **Replace:** schedule 3.7 with revised schedule attached.
2. **Revise:** article 2.2.5 to match the following:
  - .5 *Door Closers and Accessories:*
    - .1 *Door controls (closers): to CAN/CGSB-69.20, size in accordance with CAN/CGSB-69.20, table A1, finished to 630.*
      - .1 *Grade 1, heavy duty, adjustable hydraulic back check, separate regulation of closing speed and latching speed, rack and pinion action.*
    - .2 *List of closers:*
      - .1 *LCN 4040 extra duty parallel arm with delayed action function.*
      - .2 *LCN 4040H extra duty parallel arm with integral hold-open function.*
      - .3 *Acceptable manufacturers: LCN, Sargent, Norton, Rixson or approved alternate.*

3. **Revise:** article 2.2.10 to match the following:
  - .10 *Thresholds:*
    - .1 *Interior Doors: 127 mm wide x full width of door opening, 12.7mm height, 3.8 mm wall. stainless steel mill finish, plain surface.*
    - .2 *Exterior Doors: 127 mm wide x full width of door opening, 12.7 mm height, extruded stainless steel, mill finish, serrated surface, with thermal break of rigid PVC.*
4. **Revise:** article 2.2.16.3 to match the following:
  - .3 *Acceptable manufacturer:*
    - .1 *For use in non-rated door assemblies: ASD Doorscope DS238.*
    - .2 *For use in rated door assemblies: Leigh Metal Products Ltd. Ives No. 698B3.*

**A-1-3 REF. SPECIFICATION 08 90 10 – DOOR, FRAME AND HARDWARE SCHEDULE**

1. **Revise:** door 111 material from ASD to HM.
2. **Revise:** door 140 material from HM to ASD.
3. **Revise:** door 149 type from A to B.

**A-1-4 REF. ALL ‘A’ and ‘L’ SERIES DRAWINGS**

1. **Delete:** ‘Preliminary Not for Construction’ stamp.

**A-1-5 REF. DRAWING A0.3 – CONSTRUCTION ASSEMBLY SCHEDULES, DOOR, FRAME AND WINDOW TYPE SCHEDULES**

1. **Revise:** Window type A so that the window is 900mm above the floor and 1300mm tall. The operable section of the window shall remain 450mm tall, the middle section shall be 850mm, and the bottom section shall be removed.
2. **Revise:** Window type E so that the window is 1225mm above the floor and 905mm tall.

**A-1-6 REF. DRAWING A2.1 – CRAWLSPACE FLOOR PLAN, CRAWLSPACE DETAILS**

1. **Add:** Note to crawlspace plan: “*Crawlspace finishes are to be non-combustible – any exposed combustible materials are to be covered by 2mm (14ga) hot rolled sheet steel galvanized.*”

**A-1-7 REF. DRAWING A2.10 – MODULE FLOOR PLANS AND REFLECTED CEILING PLANS, MONDULES 12, 14, AND 15**

1. **Revise:** plan 5/A2.10 – remove window from room 149. Revise corresponding interior elevations as required to suit.

**A-1-8 REF. DRAWING A2.11 – MODULE FLOOR PLANS AND REFLECTED CEILING PLANS, MONDULES 16, 17, AND 18**

2. **Revise:** buildout on plan 3/A2.11 as shown on the attached sketch AR-01. Revise corresponding detail 6/A4.4 as shown on AR-02.

**A-1-9 REF. DRAWING A5.2 – INTERIOR ELEVATIONS**

1. **Add:** to 6/A5.2 room identification numbers similar to those shown on 3/A2.12. Room identification numbers to be 100mm tall and located on the sliding door track, centered on the middle of the door when the door is in the closed position.

**STRUCTURAL**

**S-1-1 REF. DRAWING A2.4 – ROOF PLAN, ROOF DETAILS & DRAWINGS S4 & S5 – ROOF PLANS UNITS 1 - 18**

1. Typical fall arrest anchor framing to be at all locations of fall arrest anchors. See attached sketch SK1 for detail.

**S-1-2 REF. DRAWING S11 – SECTIONS / DETAILS**

1. Refer to detail 2/S11 revise the detail title to read “ *Connection Detail Between Units 17 & 18 At Conc. Slab on Metal Deck*”.
2. Refer to detail 3/S11 revise the detail title to read “ *Connection Detail At Interior Wall in Units 17 & 18*”.
3. Refer to detail 4/S11 revise the detail title to read “ *Detail At O.H. & Man Door Location in Unit 17*”.

**S-1-3 REF. DRAWING S12 – SECTIONS / DETAILS**

1. Refer to detail 4/S12 - revise the following elevations:  
T/O STEEL El. 104 796 to T/O STEEL El. 104 153  
T/O STEEL El. 103 481 to T/O STEEL El. 102 838

**S-1-4 REF. DRAWING S13 – SECTIONS / DETAILS**

1. Refer to 2/S13 revise landing dimension from 3132 to 2708.
2. Refer to 3/S13 and replace with attached sketch SK2.

**S-1-5 REF. DRAWING S17 – SECTIONS / DETAILS**

1. Refer to 1/S17 revise landing dimension from 1656 to 1655.
2. Refer to 3/S17 revise landing dimension from 1656 to 1655.

**MECHANICAL**

**M-1-1 REF. SECTION 21 05 01 COMMON WORK RESULTS - MECHANICAL**

1. Under Article 1.22 Alternate Materials and Equipment, add Article 1.22.4.6 as follows:  
“.6 *Security Shower SH-2, as listed in Section 22 42 20.*”

**M-1-2 REF. SECTION 21 13 13 WET PIPE SPRINKLER SYSTEMS**

1. Revise Article 2.14.5 to read, “*Provide standard water flow, valve alarm devices and main control valve. Provide trouble transmitters/sensors as required by Code for complete central station electrical supervision of system by Fire Alarm Panel.*”

**M-1-3 REF. SECTION 22 42 20 COMMERCIAL SHOWERS AND BATHTUBS**

1. Under Article 2.3, replace 2.3.2.4 in its entirety with the following, “*Shower Head - chrome plated brass conical shape shower head that is vandal and suicide resistant. Spray pattern shall be non-adjustable multi-stream style.*”
2. Under Article 2.3, replace 2.3.3 in its entirety with the following, “*Design based on: Shower Panel – Acorn Penal-Ware 1743-MVC1-F1.6-MT-SW-CSH-PBH only, no alternates permitted.*”

**M-1-4 REF. SECTION 22 11 16 DOMESTIC WATER PIPING**

1. Under 2.2 Piping, replace 2.2.3 with the following:
  - “.3 *Above ground: high-density crosslinked polyethylene manufactured using the high-pressure peroxide method of crosslinking (PEXa). Pipe shall conform to ASTM F876, ASTM F877 CSA B137.5, NSF/ANSI 14 and NSF/ANSI 61.*
    - .1 *Pipe shall be rated for continuous operation of 100 psi gauge pressure at 180°F temperature (690 kPa @ 82 deg.C), and 80 psi gauge pressure at 200 deg.F temperature (550 kPa @ 93 deg.C).*
    - .2 *Pipe shall be certified by PPI to standard TR-3, with applicable plumbing and mechanical code certifications.*
    - .3 *Pipe to be manufactured using a high-pressure peroxide method with a minimum degree of crosslinking of 70-89% when tested in accordance with ASTM D2765, Method B.*
    - .4 *Pipe to be tested for resistance to hot chlorinated water in accordance with ASTM F2023. Pipe to have a minimum extrapolated time-to-failure of 50 years, calculated in accordance with Section 13.3 of F2023 and listed as “3306” per the ASTM F876 Standard.*
    - .5 *PEX pipe to have a co-extruded UV Shield made from UV-resistant polyethylene providing a minimum UV resistance of 6 months when tested according to ASTM F2657.*
    - .6 *Pipe to have a Flame Spread Index and a Smoke Developed Index listing to ASTM E84 (in U.S.) or CAN/ULC S102.2 (in Canada)”*
2. Under 2.3 Fittings, add the following:
  - “.7 *PEX Fittings: Fitting Materials: Fittings shall be manufactured of Engineered Polymer (EP). Lead free brass materials are allowed only for transition fittings. Fitting connections shall be made to the requirements of ASTM F1960. Fittings shall be supplied by the PEX tubing manufacturer. PEX-a cold expansion type fittings shall be an assembly consisting of insert and PEX-a cold expansion ring.*

**M-1-5 REF. SECTION 23-09-33 ELECTRIC AND ELECTRONIC CONTROLS**

1. Under Article 2.2 THERMOSTAT GUARDS, add the following Article
  - “2.2.2 *Rounded vandal resistant guard to be of moulded polycarbonate complete with lock and key assembly. Unit to have holes in frame to allow free air circulation and an interior wall on frame to prevent objects from entering cover. Unit to be complete with anchors and screws for mounting. Unit to be complete with a three year guarantee against breakage. Design based on STI-9110 Thermostat Protector”*
2. Add the following article,
  - “ 3.4.4 *Reverse Acting Line Voltage: Fan to operate from reverse acting line voltage thermostat supplied by mechanical with fan and wired by electrical.”*

**M-1-6 REF. SECTION 23-74-00 PACKAGED OUTDOOR HVAC EQUIPMENT**

1. Under Article 2.1 PACKAGED ROOF TOP UNIT WITH 100% FRESH AIR, revise 2.1.1.1 to read “*Provide roof mounted type units with natural gas fired heat and electric refrigeration.*”
2. Delete “RTU-3” from Article 2.2 PACKAGED ROOF TOP UNIT WITH RETURN AIR.
3. Under Article 2.2 PACKAGED ROOF TOP UNIT WITH RETURN AIR, revise the following:
  1. Article 2.1.1.1 to read “*Provide roof mounted type units with natural gas fired heat and electric refrigeration.*”

2. Under Article 2.1.1.2 replace “heating coil” with “stainless steel heat exchanger”
3. Replace Article 2.2.2.3 with the following, “Natural Gas Fired Heat: Stainless steel single stage gas fired heat exchanger. Minimum warranty to be 15 years.”
4. Replace 2.2.5 with the following, “Condenser (RTU-4 and RTU-5)”
5. Replace 2.2.6 with the following, “Condenser (RTU-6)”
6. Replace Article 2.2.5.5 with the following, “Motors shall be variable speed for energy efficient multistage air volume operation and quiet operation.”
7. Replace Article 2.2.6.5 with the following, “Motors shall be variable speed for energy efficient multistage air volume operation and quiet operation.”
8. Under Article 2.2.8 - Operating Controls, revise the following:
  1. Revise Article 2.2.8.3.8 to read, “Economizer Control – Differential Sensible or Enthalpy Control”
  2. Delete Article 2.2.8.3.9 in its entirety
  3. Delete Article 2.2.8.3.26 in its entirety
  4. Replace Article 2.2.8.4 with the following, “Control: unit to have single stage heat and single stage cooling, operating from zone thermostat. Controls shall prevent heating and cooling at same time.”
  5. Replace Article 2.2.8.5.1 with the following, “Single stage heating, single stage cooling.”

4. Add the following article:

**2.3 MAKE-UP AIR UNIT (RTU-3)**

**.1 UNIT CONSTRUCTION**

- .1 Unit casing shall be of minimum 18 gauge (1.3 mm) satin coat galvanized sheet metal. Surfaces shall be cleaned with a degreasing solvent to remove oil and metal oxides and primed with a two-part acid based etching primer. Finish coat shall be an electrostatically applied enamel, to all exposed surfaces. All unprotected metal and welds shall be factory coated.
- .2 All walls, roofs and floors shall be of formed construction, with at least two breaks at each joint. Joints shall be secured by sheet metal screws or pop rivets. Wall and floor joints shall be broken in and on all outdoor units roof joints broken out (exposed) for rigidity. All joints shall be caulked with a water resistant sealant.
- .3 The following components shall be provided with a 22 gauge (.85 mm) solid, or 24 gauge (.70 mm) perforated (40% free area) galvanized metal liner over insulated areas:

	Solid Liner	Perf. Liner
- Fan Sections		XX
- Coil Section	XX	
- Filter Section	XX	
- Discharge Plenum		XX
- Inlet Louvre Section	XX	
- Inlet Louvre Section	XX	
- Bypass Air Plenum		XX

- .4 Units shall be provided with access doors to the following components: fans and motors, filters, dampers and operators, access plenums, electrical control panels, burner compressor compartments. Access doors shall be large enough for easy access. Removal of screwed wall panels will not be acceptable.

- .5 Units shall be provided with hinged access doors, with extruded neoprene gasket, fully lined, and a minimum of two Leverlok handles. Where space constrictions require the use of outward opening doors to an area of positive pressure, a clear warning label and safety chain must be affixed.
  - .6 All units shall be internally insulated with 2"(51mm) thick 1 1/2 lb./cu.ft. (24 kg./cu.m.) density, neoprene coated fibre glass thermal insulation or equivalent.
  - .7 1 1/2 lb./cu.ft. (24 kg/cu.m.) insulation shall be secured to metal panels with a fire retardant adhesive and welded steel pins at 16" (400 mm) o/c. All longitudinal insulation joints and butt ends shall be covered by a sheet metal break to prevent erosion of exposed edges. Drain pans and all floor areas shall be insulated on the underside.
  - .8 Unit casing floors shall be fabricated with 18 gauge (1.3 mm) satin coat galvanized sheet metal. Provide reinforcing channels under floor to minimize deflection.
  - .9 Cooling coil drain pans shall be fabricated of stainless steel and are an integral part of the floor paneling, a minimum of 2" (51 mm) deep, with welded corners. Drain pans shall extend a minimum of 6" (152 mm) downstream of coil face and be provided with a 1 1/2" (38mm) S.S. M.P.T. drain connection. Drain pans must have a fast pan and be sloped and pitched such that there is no standing water. Intermediate fast pans shall be provided between cooling coils where required for effective moisture removal.
  - .10 Provide galvanized drain pan inlet louvre section.
  - .11 Air handling units shall be weatherproofed and equipped for installation outdoors. This shall include generally for the prevention of infiltration of rain and snow into the unit, louvers or hoods on air intakes and exhaust openings with 1" (25 mm) galvanized inlet screens; rain gutters or diverters over all access doors; all joints caulked with a water resistant sealant; roof joints turned up 2" (51 mm) with three break interlocking design; outer wall panels extend a minimum of 1/4"(6 mm) below the floor panel; drain trap(s) connections for field supply and installation of drain traps. Units mounted on roof curbs incorporate welded floor to base construction. Floors are of three break upstanding design with welded corners and free of penetrations. Unit underside joints are caulked.
  - .12 Provide full perimeter roof mounting curb of heavy gauge sheet metal, minimum of 16" (406 mm) high, and complete with wood nailer, neoprene sealing strip, and fully welded "Z" bar with 1" (25 mm) upturn on inner perimeter, to provide a complete seal against the elements. Curb to be complete with duct rails to match supply air opening size and location. External insulation of the roof-mounting curb shall be provided by the Roofing Subcontractor.
- .2 FANS
- .1 Centrifugal fans shall be rated in accordance with AMCA Standard Test Code, Bulletin 210. Fan manufacturer shall be a member of AMCA. All fans and fan assemblies shall be dynamically balanced during factory test run. Fan shafts shall be selected for stable



*operation at least 20% below the first critical RPM. Fan shafts shall be provided with a rust inhibiting coating.*

- .2 Single low pressure forward curved fan, shall be equipped with greaseable pillow block bearings, supported on a rigid structural steel frame.*
- .3 Drives shall be adjustable on fans with motors 7 1/2 HP (5.6 kW) or smaller. On fans with larger motors, fixed drives shall be provided. All drives shall be provided with a rust inhibiting coating. The Air Balancer shall provide for drive changes (if required) during the air balance procedure.*
- .4 Provide single extended grease line from far side to access side bearing.*
- .5 Fan motors shall be TEFC super high efficiency type.*

**.3 COILS**

- .1 1/2" O.D. as manufactured by Engineered Air, constructed of copper tube, aluminum fin, and copper headers.*
- .2 Fins constructed of aluminum shall be rippled for maximum heat transfer and shall be mechanically bonded to the tubes by mechanical expansion of the tubes. The coils shall have a galvanized steel casing. All coils shall be factory tested with air at 300 psig (2070 kPa) while immersed in an illuminated water tank.*
- .3 Multiple row coils shall be of staggered tube design circuited to optimize capacity with minimum pressure drop.*
- .4 Refrigerant evaporator type coils shall be equipped with distributors connected to the coil by copper tubes. The hot gas bypass inlet shall be at the refrigerant distributor.*

**.4 GAS HEAT SECTION**

**.1 General**

- .1 Heating units shall be indirect natural gas fired approved for both sea level and high altitude areas. The entire package, including damper controls, fan controls, and all other miscellaneous controls and accessories shall be approved by an independent testing authority and carry the approval label of that authority as a complete operating package.*
- .2 All units must exceed the ASHRAE 90.1 requirement of steady state efficiency at low fire.*
- .3 Operating natural gas pressure at unit(s) manifold shall be 7" w.c. (1750 Pa).*
- .4 Gas fired units shall be approved for operation in -40 deg.F (-40 deg.C). Packaged controls to allow operation below -40 deg.F (-40 deg.C) that shutdown at -40 deg.F (-40 deg.C) by control package is not acceptable.*

**.2 Heat Exchanger/Burner Assembly**

- .1 Heat exchanger shall be a primary drum and multi-tube secondary assembly constructed of titanium stainless steel with multi-plane metal turbulators and shall be of a floating stress relieved design. Heat exchanger shall be provided with condensate drain connection. The heat exchanger casing shall have 1" (25m) of insulation between the outer cabinet and inner heat reflective galvanized steel liner. Blower location shall be engineered to*

- improve the required air flow pattern around the heat exchanger. Using duct type furnaces and closed coupled blowers are not acceptable.*
- .2 The heat exchanger/burner assembly shall be a blow through positive pressure type. Units incorporating the DJM module shall have an interrupted pilot ignition system to provide increased safety. Units using continuous or intermittent pilots are not acceptable.*
  - .3 Flame surveillance shall be from the main flame after ignition not the pilot flame. The burner and gas train shall be in a cabinet enclosure. Atmospheric burners or burners requiring power assisted venting are not acceptable.*
  - .4 The heat exchanger/burner assembly shall include 15:1 turndown. The high turn down heat exchanger/burner assembly minimum input shall be capable of controlling 6.7% of its rated input, excluding the pilot assembly, without on/off cycling and include built in electronic linearization of fuel and combustion air. Efficiency shall increase from high to low fire.*
- .3 Factory testing of indirect fired gas heating section.*
- .1 The minimum test requirements on all cabinet / fan size / fan type / fan orientation / heat exchanger / outlet configuration combinations previously built are listed below. Tests shall be performed after complete final unit assembly, just prior to shipping to job site. The tests shall be performed in accordance with the equipment standard that the gas heating section is certified.
    - Heat exchanger shall be clogged with a dedicated calibrated gas meter to insure proper set up of the gas manifold.*
    - High and low input flue gas combustion analysis using a calibrated combustion analyzer including O<sub>2</sub> and CO to provide proper air fuel ratio throughout the entire operating range.**
  - .4 Outdoor vent hood shall double wall insulated and rise 36" (914 mm) above top of unit.*
  - .5 Controls*
    - .1 Electronic DJM module (Modulating Fuel w/ Modulating Combustion Air) complete with proportional and integral control with discharge air sensor to maintain set point temperature and provide rapid response to incremental changes in discharge air temperature. Combustion air motor speed varies proportionally in response to the modulation of gas flow to provide optimum fuel/air mixture and efficiency at all conditions. Combustion blower RPM shall be proved using a hall effect speed sensor. Two speed or step speed combustion blowers are not acceptable.*
    - .2 Combustion efficiency of high efficiency heat exchangers shall increase by up to 4-5% from high fire to low fire while turning down on units incorporating 15:1 turndown (HT Burner). Heat exchangers shall provide a minimum of 80% efficiency throughout the entire operating range.*
    - .3 Alternate manufacturers units that do not incorporate a variable speed combustion air blower shall have a modulating gas valve*

*and a combustion air damper with a linear linkage connected to an actuator which has a minimum of 100 steps of control.*

- .4 Heating controller shall include the following standard features:*
- Service analyzer with diagnostic lights for ease of set-up and service.*
  - linear gas and combustion air flow obtained via a built in solid-state linear algorithm*
  - -40 deg.F (-40 deg.C) minimum operating ambient temperature*
  - maintained purge to decrease temperature cycles*
  - post purge*
  - interrupted pilot*
  - self check on start-up to make sure air proving and discharge air sensors are operating within design tolerances*
  - low fire start*
  - controlled burner start-up and shut down*
  - separate gas and air actuators independently controlled to give the correct air to fuel ratio though out the entire firing range.*
- .5 Heating control function shall be modulating discharge air with 0-10VDC, reset to suit space. Minimum discharge air set point is 50 deg.F (10 deg.C) if control signal fails.*
- .6 Controllers to incorporate low limit feature.*
- .7 Discharge air sensor shall be factory mounted in discharge air plenum.*
- .8 Provide a make-up air reverse airflow high limit switch in series with the standard high limit switch mounted in the blower discharge.*

*.5 FILTERS*

- .1 Filter sections shall be provided with adequately sized access doors to allow easy removal of filters. Filter removal shall be from one side as noted on the drawings.*
- .2 The filter modules shall be designed to slide out of the unit. Side removal 1" (25 mm) or 2" (50 mm) filters shall slide into a formed metal track, sealing against metal spacers at each end of the track.*
- .3 2" (50 mm) Pleated Panel Disposable Filters: An optimum blend of natural and synthetic fiber media with a rust resistant support grid and high-wet strength beverage board enclosing frame with diagonal support members bonded to the air entering and air exiting side of each pleat. Permanent re-usable metal enclosing frame. The filter media shall have a minimum efficiency of 20-25% on ASHRAE Standard 52.1-92, and a minimum of MERV 8A per ASHRAE 52.2. Rated U.L. Class 2.*
- .4 Provide filter bank with magnehelic air filter gauge equivalent to Dwyer 2000 complete with static pressure taps and aluminum tubing all factory installed. Filter gauge to have a range of 0 to 2" (0-500 Pa).*

.5 *Where the filter gauges are provided on outdoor units they shall be mounted inside of a weatherproof enclosure with viewing window.*

.6 **DAMPERS**

.1 *Damper frames shall be U-shaped galvanized metal sections securely screwed or welded to the air handling unit chassis. Pivot rods of 1/2" (13 mm) aluminum shall turn in nylon or bronze bushings. Rods shall be secured to the blade by means of straps and set screws.*

.2 *Blades shall be 18 gauge (1.3 mm) galvanized metal with two breaks on each edge and three breaks on centerline for rigidity. The pivot rod shall "nest" in the centerline break. Damper edges shall interlock. Maximum length of damper between supports shall be 48" (1219 mm). Damper linkage brackets shall be constructed of galvanized metal.*

.3 *Inlet dampers shall be extruded aluminum, low leak, thermally broken, insulated blade Tamco Series 9000.*

.4 *Two position inlet dampers shall be parallel blade type.*

.5 *Provide manually adjustable bypass dampers shall be opposed blade type.*

.6 *Make-up air inlet damper control shall provide a two position, normally closed electric damper operator. This damper operator shall be interlocked so that when the unit is shut down, or on a power failure, the damper shall return to the closed position.*

.7 **MECHANICAL COOLING**

.1 *Compressors shall be 2-stage scroll type, set on resilient neoprene mounts and complete with live voltage break internal overload protection and internal pressure relief valve. External crankcase heaters locked out during compressor operation.*

.2 *Air cooled condenser.*

.3 *Condenser coils shall be copper tube type, mechanically expanded into aluminum fins. Coils shall be factory tested with air at 300 psig (2070 kPa) while immersed in an illuminated water tank.*

.4 *Condenser fans shall be direct driven propeller type arranged for vertical draw through airflow. Motors shall be weather resistant type, with integral overload protection and designed for vertical shaft condenser fan applications. Fan and motor assemblies shall be mounted on a formed orifice plate for optimum efficiency with minimum noise level.*

.5 *Condenser fan shall be fully housed fan with protective screen and fluted blades for optimum efficiency with minimum noise level.*

.6 *Condenser to form an integral part of the unit.*

.7 *Packaged units shall be CETL, ETLUS approved and operate down to 50 deg.F (10 deg.C) as standard. Where applicable, multiple refrigeration circuits shall be separate from each other. Refrigeration circuits shall be complete with liquid line filter-driers, and service ports fitted with Schraeder fittings. Units with over 6 Ton hermetic compressors and all units with semi-hermetic compressors shall also incorporate load compensated thermal expansion valves with external equalizers and combination sight glass moisture indicators. Compressor units shall have condensers designed for 15 deg.F (8 deg.C) liquid subcooling and be equipped with suction line filters and*

*liquid line manual shutoff valves. The complete piping system shall be purged and pressure tested with dry nitrogen, then tested again under vacuum. Each system shall be factory run and adjusted prior to shipment.*

- .8 Packaged units shall be supplied with R-410A refrigerant.*
- .9 Controls for scroll compressor units shall include compressor and condenser fan motor contactors, supply fan contactors and overload protection, control circuit transformer, cooling relays, ambient compressor lockout, automatic reset low pressure controls, and manual reset high pressure controls on compressors over 6 tons. Head pressure actuated fan cycling control shall be provided on all multiple condenser fan units.*
- .10 Provide hot gas bypass on the lead compressor to maintain adequate suction pressure in the event of low loads.*
- .11 Compressors shall be located on the side of the unit in a service enclosure complete with hinged access doors c/w leverlok handles for ease of service.*
- .12 Provide low ambient controls for 50°F(10°C) operation.*
- .8 COOLING CONTROL - C-TRAC3 Controller or equivalent*
  - .1 The controller shall automatically start in heating, economizer, or cooling mode based on continuously monitored ambient temperature and load requirements.*
  - .2 The controller shall include an adjustable low limit set point for freeze protection to cease equipment operation in the event of low discharge temperature. If the discharge air temperature falls below the adjusted set point, the blowers will shut down and the outside air dampers shall close. The low limit bypass timer shall vary automatically depending on the thermal coefficient of the style of heat exchanger.*
  - .3 Dual sensors shall be used in the discharge air for precise temperature control.*
  - .4 As the ambient temperature falls, the C-TRAC3 controller shall automatically compensate for outside air thermal expansion by proportionally reducing the amount of outside air.*
  - .5 When a DJM2, controller is used as a secondary controller, the C-TRAC3 shall automatically pre-heat and cool down the heat exchanger before enabling or disabling the supply blower.*
  - .6 The heat/economizer/cool function shall be modulating discharge air with 0-10 VDC reset. Minimum discharge air setpoint reverts to minimum set point if the control fails.*
    - .1 The discharge air setpoint shall be adjusted from the space temperature sensor.*
    - .2 The C-TRAC3 electronic temperature control system shall provide up to 5 stages of mechanical cooling control to maintain discharge (room) temperature. The minimum run and off time for the compressors shall be variable based on load requirements.*
    - .3 When in heating mode, the C-TRAC3 shall provide a signal to the DJM2 programmed logic heating controller for series DJ commercial gas fired heater.*
  - .7 The minimum heater protection when using the DJM module as a secondary controller shall be a high temperature limit switch, an*

*induced draft motor speed sensor, flame proving controls, redundant gas valve. The C-TRAC3 shall continuously monitor the pilot valve and flame relay operation.*

*.8 The controller shall attempt up to 3 ignition attempts in the event of loss of flame signal before disabling equipment operation.*

*.9 The C-TRAC3 shall have indication and troubleshooting LED lights, multi-meter set point and sensor temperature test points, and a common alarm contact in the event of equipment failure. Information can be accessed from a PDA (personal digital assistant) or laptop computer for improved access to control settings using Engineered Air SMC software.*

**.9 FACTORY SUPPLIED CONTROLS/WIRING**

*.1 Provide a system of motor control, including all necessary terminal blocks, motor contactors, motor overload protection, grounding lugs, control transformers, auxiliary contactors and terminals for the connection of external control devices or relays.*

*.2 Gas fired units shall include high limit and combustion airflow switch.*

*.3 Fire alarm circuits (where required) shall be powered from a relay in unit circuitry.*

*.4 Factory installed and wired non-fused disconnect switch in CEMA/NEMA CEMA/NEMA 3 weatherproof configuration.*

*.5 Automatic controls shall be housed in a control panel mounted in or on the air handling unit, which will meet that standard of the specific installation.*

*.6 Provide a discharge air low limit equipped with an automatic bypass time delay to allow for cold weather start-up. On a heating system failure, this device will shut down the fan and close the outdoor air damper. This device shall require resetting by interrupting the electrical circuit.*

**M-1-7 REF. Drawing M3.2**

- 1. Add the following note to Room 132, "Unit heaters and all associated pipes and accessories shall be hung with a minimum clearance between lowest point of system and finished floor of 2050 mm."*
- 2. Add the following note to Room 132, "Final location of thermostat to be confirmed with Departmental Representative prior to commencing work."*

**M-1-8 REF. Drawing M4.2**

- 1. Add the following note to Room 135, "Thermostat to be complete with rounded, vandal resistant cover without corners. Coordinate thermostat location with Departmental Representative prior to commencing rough-in."*

**M-1-9 REF. Drawing M4.3**

- 1. Outside air intake duct for Room 132 shall be externally insulated as specified and not internally insulated as indicated on the drawing.*

**M-1-10 REF. Drawing M5.1**

- 1. In Room 132, replace fire extinguisher tag FEC-2 with FEC-1 and add the following note, "Coordinate location of recessed fire extinguisher cabinet with Architectural enclosure, refer to Architectural."*

**ELECTRICAL**

**E-1-1 REF. SECTION 28 22 00 – BUILDING SECURITY AND ACCESS CONTROL**

1. Revise Part 3.4 to read;
  - .4 **GA** *Garage/Overhead Door Interface*
    - .1 *Supply and install 13mm conduit from the overhead garage door operator to a T2 cabinet in the area (as per floor plans).*
    - .2 *Supply and install one six position barrier terminal strip (Curtis 2006) in the T2 cabinet.*
    - .3 *Supply **one** 6 conductor (or 3 pair) **18 AWG** solid copper LVT cable in the conduit from the overhead door operator to the T2 cabinet and terminate on the six position barrier terminal strip in the T2 cabinet.*
    - .4 *Terminate two conductors in the overhead door operator in a manner that will cause the overhead door to open when the conductors are shorted. Label this pair of conductors 'OPEN' inside the T2 cabinet.*
    - .5 *Terminate two conductors in the overhead door operator in a manner that will cause the overhead door to close when the conductors are shorted. Label this pair of conductors 'CLOSE' inside the T2 cabinet.*
    - .6 *Terminate two conductors in the overhead door operator in a manner that will cause the overhead door to stop when the conductors are shorted. Label this pair of conductors 'STOP' inside the T2 cabinet.*

**E-1-2 REF. SECTION 27 05 14 – COMMUNICATION CABLES INSIDE BUILDING**

1. Revise 2.2.6 patch cords shall be 10GX (6') six foot WHITE patch cords.
2. Horizontal cable management shall be CTH-CMS-2M-B.

**E-1-3 REF. SECTION 28 31 01 – FIRE ALARM SYSTEM**

1. Revise 2.4.3 so that the protective cage is installed so that the knock out for the conduit in the base of the cage is covered by the cage housing.

**E-1-4 REF. DRAWING E1.1 – ELECTRICAL SITE PLAN AND SYMBOL SCHEDULE**

1. Revise the location of the light fixture shown in the driving lane north of the building. Fixture shall be located directly north between the fence and the property line.

**E-1-5 REF. DRAWING E2.1 – MAIN FLOOR LIGHTING PLAN**

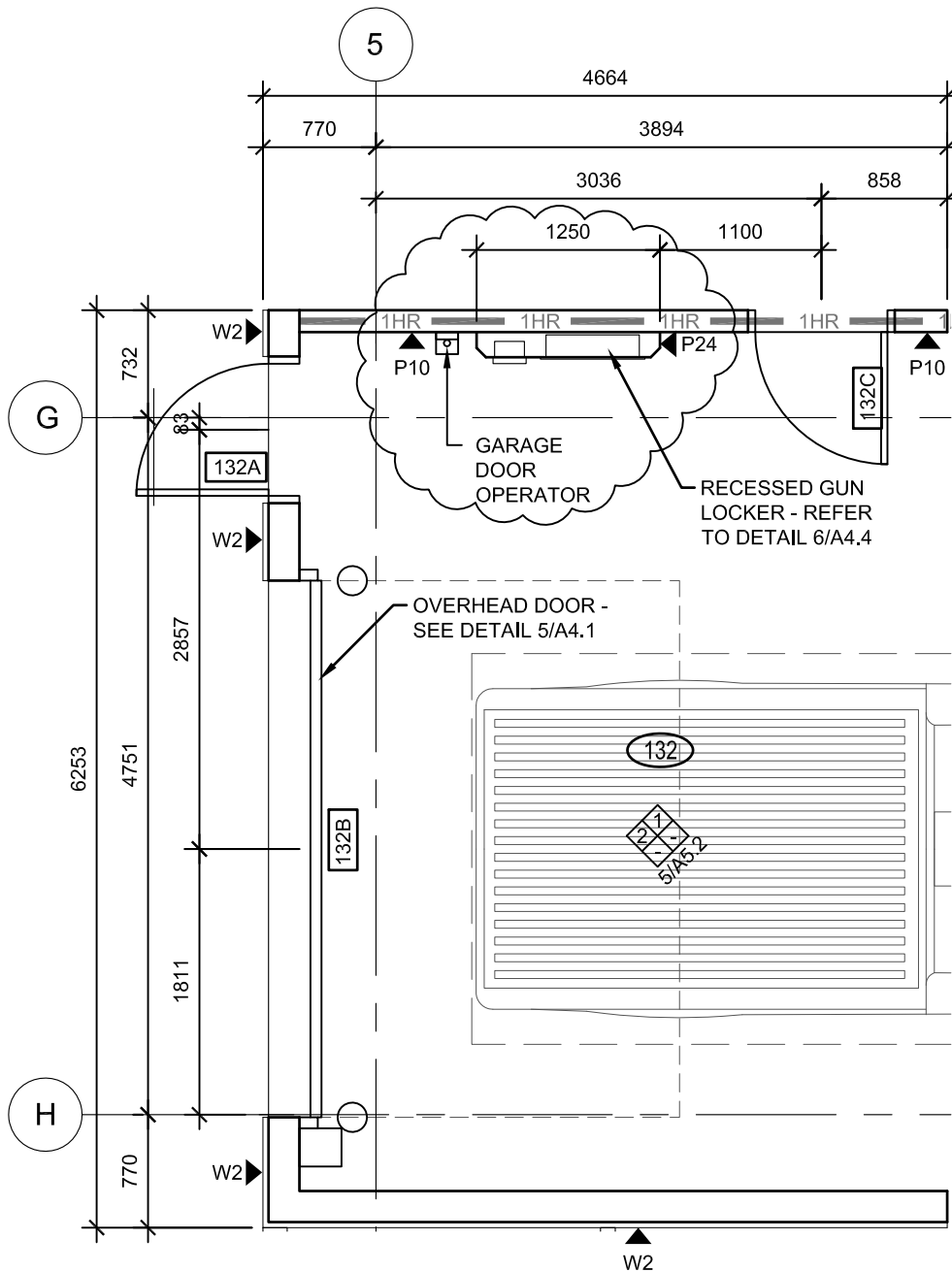
1. Revise the light switch location for Room 137 from inside the room to Corridor 130 adjacent to the latch side of Door 137.

**E-1-6 REF. DRAWING E5.1 – SINGLE LINE DRAWING**

1. Revise note for emergency generator receptacle and cordset.

*Provide a 250mm square weatherproof exterior mounted locking cabinet c/w male receptacle and one meter of heavy duty cab tire cord and strain relief. Receptacle shall match the generator cord female receptacle configuration. The cordset for connection to the generator shall have a male plug to connect to the generator and a female receptacle to connect to the wall mounted cord set. Conductors shall be sized as noted on the drawing. Mount cabinet up 900mm above finished grade.*

**END OF ADDENDUM NO. 01**



3  
A2.11

# MODULE 17 - FLOOR PLAN

1:50



**SEPW Architecture Inc.**

109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255  
 102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457  
 website: www.sepw.ca

PROJECT TITLE  
 NEW MODULAR POLICE BUILDING  
 AHTAHKAKOOP, SASKATCHEWAN

DRAWING TITLE  
 REVISED MODULE 17 FLOOR PLAN

DATE  
 2016.11.30

SCALE  
 AS NOTED

DRAWN  
 JMM

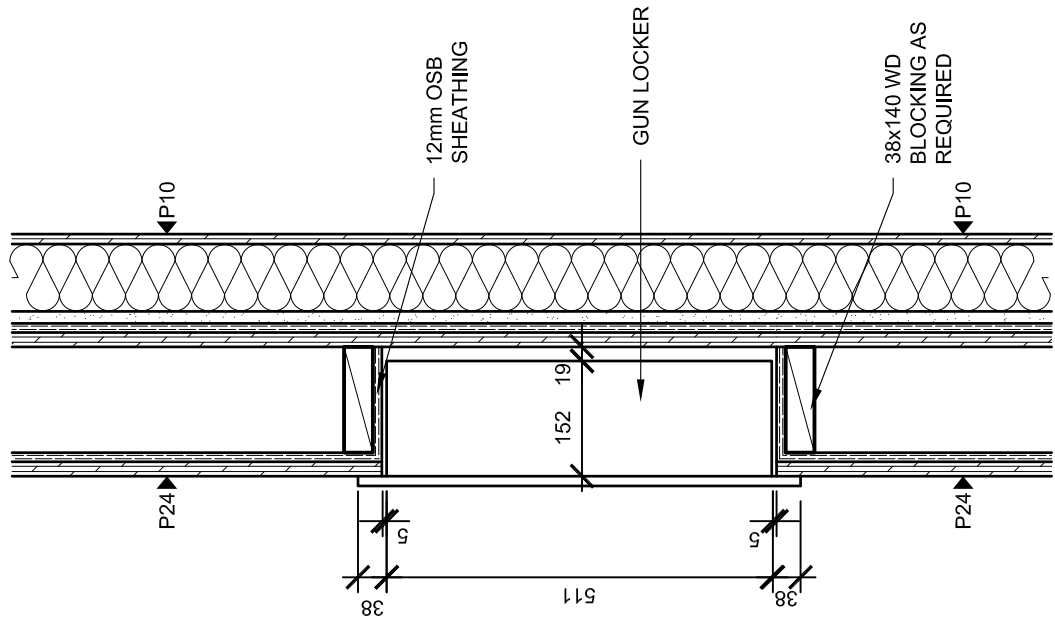
CHECKED  
 JLW

PROJECT NO.  
 S-35-2014

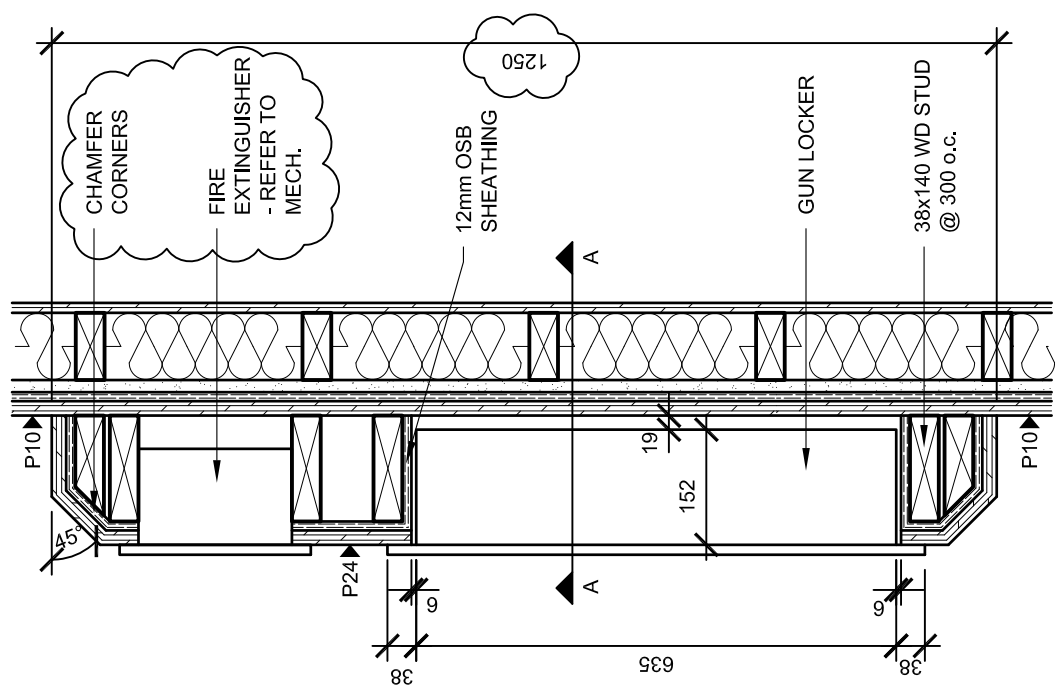
DRAWING NO.

**AR-01**





SECTION 'A-A'  
1:10



PLAN  
1:10

# GUN LOCKER IN ROOM 132

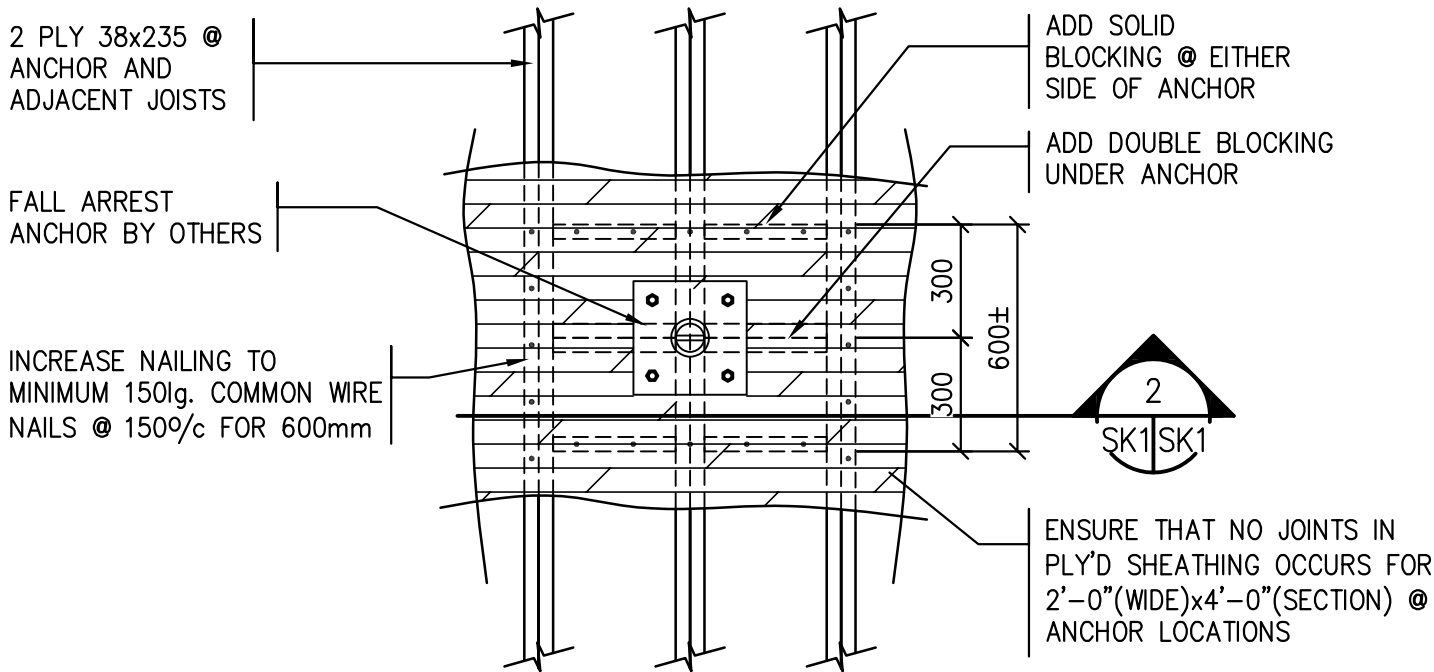
6  
A4.4  
1:10



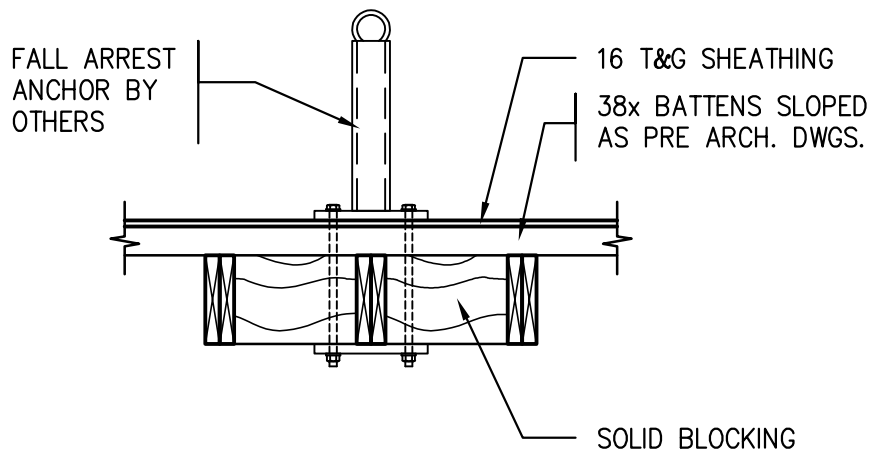
**SEPW Architecture Inc.**

109 - 3725 Pasqua Street, Regina, SK, S4S 6W8 ph: (306) 569-2255  
 102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457  
 website: www.sepw.ca

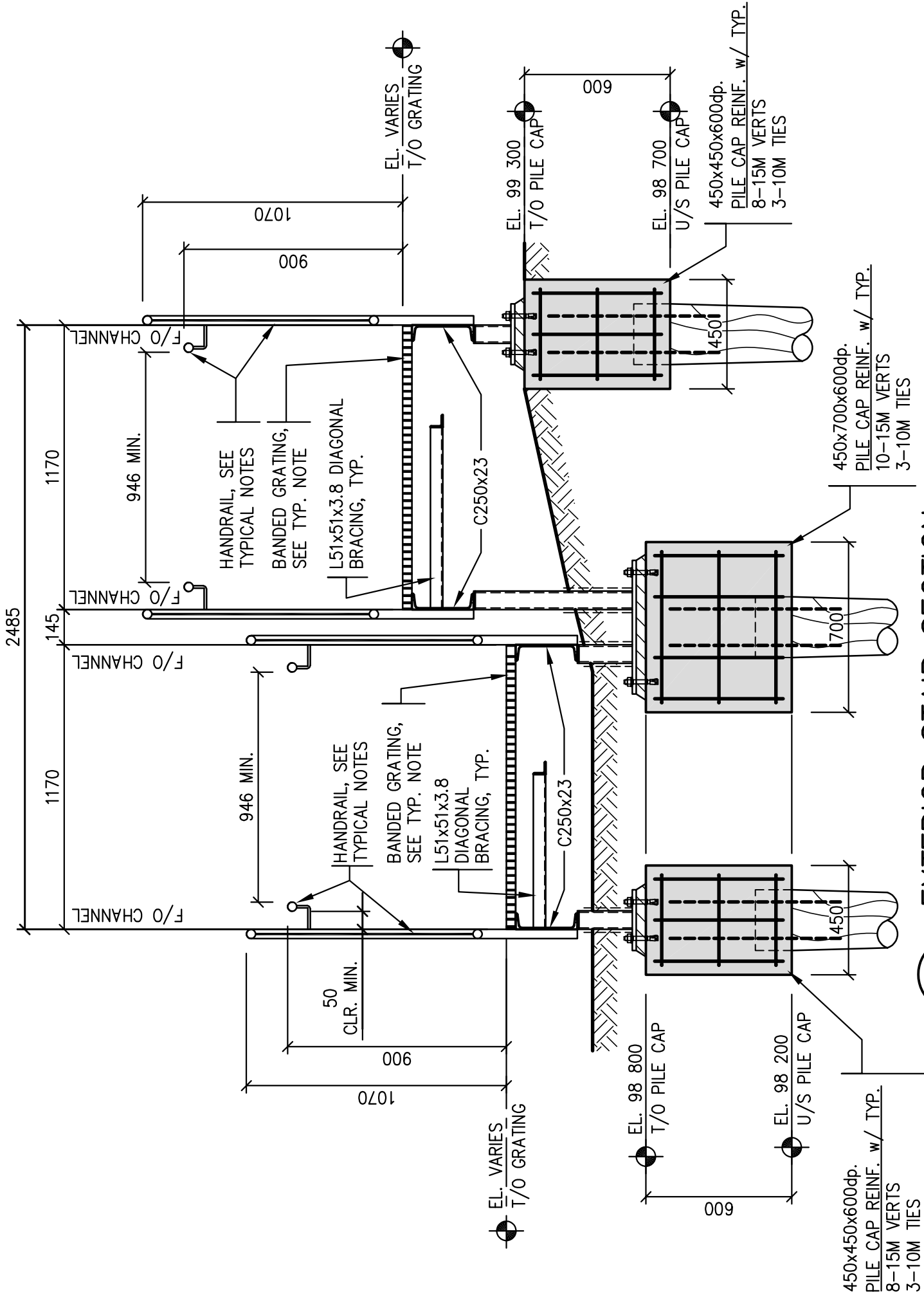
PROJECT TITLE NEW MODULAR POLICE BUILDING AHTAHKAKOOP, SASKATCHEWAN	DATE 2016.11.30	PROJECT NO. S-35-2014
	SCALE AS NOTED	DRAWING NO.
DRAWING TITLE REVISED DETAIL - GUN LOCKER IN ROOM 132	DRAWN JMM	<b>AR-02</b>
	CHECKED JLW	



1 ROOF ANCHOR DETIAL – PLAN 1:20



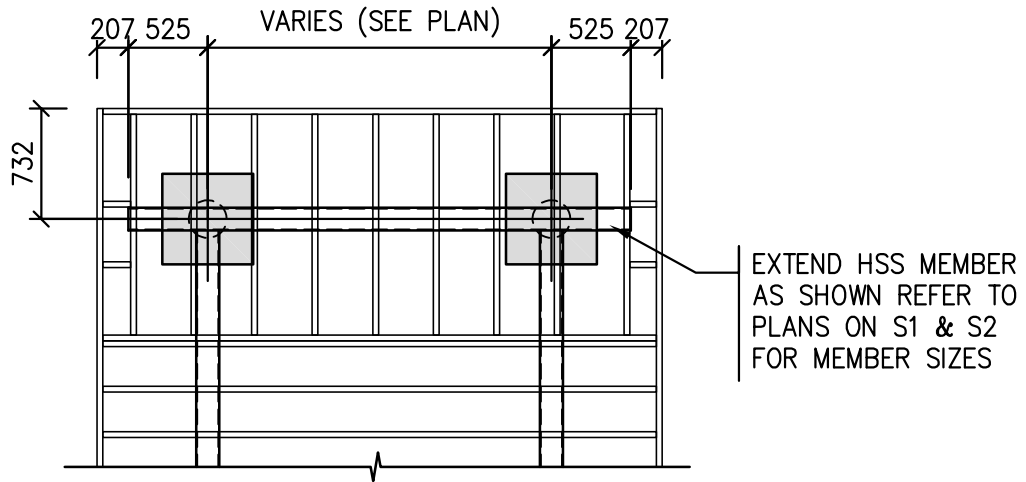
2 ROOF ANCHOR DETIAL – SECTION 1:20



3  
S13|S13

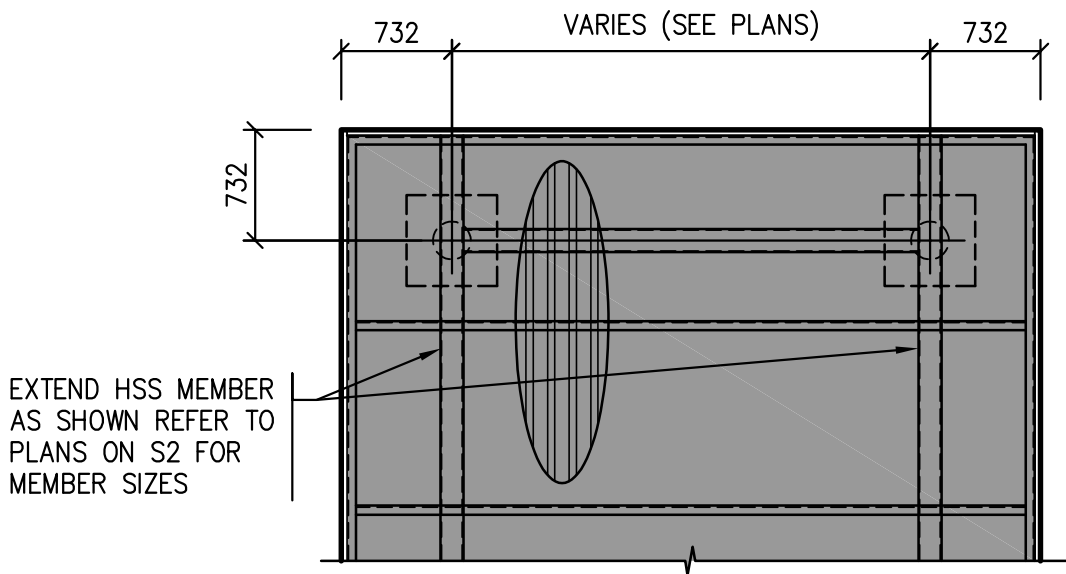
# EXTERIOR STAIR SECTION

1:20



## HSS FRAME DETAIL UNITS 1-16

1:50



## HSS FRAME DETAIL UNITS 17-18

1:50

**3.7 SCHEDULE**

<b><u>Door 000</u></b>	<b><u>Door 001</u></b>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model:ML2029-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 weatherstripping 1 closer 1 door viewer (interior to exterior)</p>
<b><u>Door 002</u></b>	<b><u>Door 003</u></b>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model:ML2029-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model:ML2029-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer</p>
<b><u>Door 004</u></b>	<b><u>Door 100A</u></b>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model:ML2029-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2065-LWR-626</li> <li>• “0” Bitted L4 Cylinder</li> <li>• ANSI No.: F13</li> </ul> <p>3 butts (non-removable pins) 1 weatherstripping 1 door sweep 1 closer 1 auto operator 1 electric strike (w/ deadbolt retainer) 1 floor stop 1 door viewer (interior to exterior) 1 threshold 1 latch guard <u>Comment:</u> Handicap Assist Door. See Note 2 below.</p>

<p><b><u>Door 100B</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2065-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F13</li> </ul> <p>3 butts 1 closer 1 auto operator 1 electric strike (w/ deadbolt retainer) 1 wall stop 1 kickplate <u>Comment:</u> Handicap Assist Door. See Note 2 below.</p>	<p><b><u>Door 102</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 wall stop 1 kickplate</p>
<p><b><u>Door 103A</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 electric strike 1 weatherstripping 1 drop seal (coordinate w/ Section 08 34 74) 1 wall stop 1 kickplate <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.</p>	<p><b><u>Door 103B</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts 1 closer 1 electric strike 1 weatherstripping 1 drop seal (coordinate w/ Section 08 34 74) 1 wall stop 1 kickplate <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.</p>
<p><b><u>Door 104</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2051-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F04</li> </ul> <p>3 butts 1 closer 1 weatherstripping 1 drop seal (coordinate w/ Section 08 34 74) 1 wall stop 1 kickplate</p>	<p><b><u>Door 105</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 electric strike 1 kickplate 1 door viewer (view into reception area) <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.</p>

<b><u>Door 108</u></b>	<b><u>Door 109A</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2029-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F15</li></ul> 3 butts (non-removable pins) 1 closer 1 wall stop 1 kickplate 1 electric strike <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2029-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F15</li></ul> 3 butts (non-removable pins) 1 weatherstripping 1 door sweep 1 closer 1 electric strike 1 latch guard 1 door viewer (view to exterior) 1 threshold <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.
<b><u>Door 109B</u></b>	<b><u>Door 110</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2010-LWR-626</li><li>• ANSI No.: F01</li></ul> 3 butts 1 closer 1 wall stop 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2060-LWR-626</li><li>• ANSI No.: F22</li></ul> 3 butts 1 wall stop 1 kickplate 1 closer
<b><u>Door 111</u></b>	<b><u>Door 113</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2051-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F04</li></ul> 3 butts 1 wall stop 1 weatherstripping 1 door bottom seal 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2057-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F07</li></ul> 3 butts 1 closer 1 kickplate 1 wall stop

<p><b><u>Door 114</u></b></p>	<p><b><u>Door 116</u></b></p>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 floor stop 1 kickplate</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2065-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F13</li> </ul> <p>3 butts 1 closer 1 kickplate</p>
<p><b><u>Door 117</u></b></p>	<p><b><u>Door 119</u></b></p>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts 1 closer 1 floor stop 1 electric strike 1 kickplate</p> <p><u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2060-LWR-626</li> <li>• ANSI No.: F22</li> </ul> <p>3 butts 1 wall stop</p>
<p><b><u>Door 120</u></b></p>	<p><b><u>Door 120.1</u></b></p>
<p>1 push plate 1 pull plate 3 butts 1 closer 1 wall stop 1 kickplate</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2010-LWR-626</li> <li>• ANSI No.: F01</li> </ul> <p>3 butts 1 closer 1 kickplate 1 wall stop</p>
<p><b><u>Door 121</u></b></p>	<p><b><u>Door 121.1</u></b></p>
<p>1 push plate 1 pull plate 3 butts 1 closer 1 wall stop 1 kickplate</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2010-LWR-626</li> <li>• ANSI No.: F01</li> </ul> <p>3 butts 1 closer 1 wall stop 1 kickplate</p>



<b><u>Door 122</u></b>	<b><u>Door 125</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2060-LWR-626</li><li>• ANSI No.: F22</li></ul> 3 butts 1 wall stop	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2029-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F15</li></ul> 3 butts (non-removable pins) 1 closer 1 electric strike 1 kickplate <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.
<b><u>Door 126</u></b>	<b><u>Door 128A</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2010-LWR-626</li><li>• ANSI No.: F01</li></ul> 3 butts 1 wall stop 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2029-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F15</li></ul> 3 butts (non-removable pins) 1 weatherstripping 1 door sweep 1 closer 1 electric strike 1 kickplate 1 latch guard 1 door viewer (view to exterior from interior) 1 threshold <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.
<b><u>Door 128B</u></b>	<b><u>Door 129A</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2010-LWR-626</li><li>• ANSI No.: F01</li></ul> 3 butts 1 closer 1 wall stop 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2092-GSR-626</li><li>• "0" Bitted L4 Cylinder</li></ul> 3 butts 1 closer 1 floor stop 1 electric strike 1 kickplate 1 weatherstripping 1 door sweep <u>Comment:</u> Knob trim (frozen both sides) – no indicator. Electronic Access Control Door. See Note 1 below.

<p><b><u>Door 129B</u></b></p>	<p><b><u>Door 130</u></b></p>
<p>1 lockset :</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07(K)</li> </ul> <p>3 butts 1 closer 1 electric strike 1 kickplate <u>Comment:</u> Knob trim. Electronic Access Control Door. See Note 1 below.</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2022-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F14(K)</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 electric strike 1 weatherstripping 1 door sweep 1 latch guard 1 door viewer (view to exterior from interior) 1 threshold <u>Comment:</u> Knob trim. Electronic Accessed Controlled Door. See Note 1 below.</p>
<p><b><u>Door 130.1</u></b></p>	<p><b><u>Door 130.2</u></b></p>
<p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts <u>Comment:</u> Provide cylinder pull.</p>	<p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts <u>Comment:</u> Provide cylinder pull.</p>
<p><b><u>Door 130.3</u></b></p>	<p><b><u>Door 130.4</u></b></p>
<p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts <u>Comment:</u> Provide cylinder pull.</p>	<p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts <u>Comment:</u> Provide cylinder pull.</p>

<p><b><u>Door 131</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07(K)</li> </ul> <p>3 butts 1 kickplate 1 closer <u>Comment:</u> Knob trim</p>	<p><b><u>Door 132A</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2022-GSR-626</li> <li>• "0" Bitted L4 Cylinders</li> <li>• ANSI No.: F14(K)</li> </ul> <p>3 butts (non-removable pins) 1 weatherstripping 1 door sweep 1 closer 1 latch guard 1 kickplate 1 electric strike 1 door viewer (to view exterior from interior) 1 threshold</p> <p><u>Comment:</u> Knob trim. Electronic Access Controlled Door. See Note 1 below.</p>
<p><b><u>Door 132B</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Key Switch</li> <li>• Model: Camden CI-1KFS</li> <li>• "0" Bitted Cylinder</li> </ul> <p><u>Comment:</u> SEE SECTIONAL METAL DOORS 08 36 13 – coordinate with electrical.</p>	<p><b><u>Door 132C</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2022-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F14(K)</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 wall stop 1 electric strike 1 kickplate 1 door sweep 1 weatherstripping 2 door viewers (to view both sides) <u>Comment:</u> Knob trim. Electronic Access Controlled Door. See Note 1 below.</p>
<p><b><u>Door 133</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>	<p><b><u>Door 134</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>

<p><b><u>Door 135</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2022-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F14(K)</li> </ul> <p>3 butts (non-removable pins)</p> <p>1 closer</p> <p>1 wall stop</p> <p>1 electric strike</p> <p>1 kickplate</p> <p>2 door viewers (to view both sides)</p> <p><u>Comment:</u> Knob trim. Electronic Accessed Controlled Door. See Note 1 below.</p>	<p><b><u>Door 136</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2010-LWR-626</li> <li>• ANSI No.: F01</li> </ul> <p>3 butts</p> <p>1 closer</p> <p>1 wall stop</p> <p>1 kickplate</p> <p><u>Comment:</u> Knob trim.</p>
<p><b><u>Door 137</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2022-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F14(K)</li> </ul> <p>3 butts</p> <p>1 closer</p> <p>1 weatherstripping</p> <p>1 drop seal (coordinate w/ Section 08 34 74)</p> <p>1 kickplate</p> <p><u>Comment:</u> Knob trim.</p>	<p><b><u>Door 138</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>
<p><b><u>Door 139</u></b></p> <p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts</p> <p>1 kickplate</p> <p>1 weatherstripping</p> <p>1 neoprene bottom seal (see weatherstripping)</p> <p><u>Comment:</u> Provide cylinder pull.</p>	<p><b><u>Door 140</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts</p> <p>1 closer</p> <p>1 kickplate</p> <p>1 electric strike</p> <p>1 weatherstripping</p> <p>1 drop seal (coordinate w/ Section 08 34 74)</p> <p><u>Comment:</u> Electronic Access Controlled Door. See Note 1 below.</p>

<p><b><u>Door 141</u></b></p>	<p><b><u>Door 142</u></b></p>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07(K)</li> </ul> <p>3 butts 1 closer 1 kickplate 1 electric strike <u>Comment:</u> Knob trim. Electronic Access Controlled Door. See Note 3 below.</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 wall stop 1 electric strike 1 kickplate <u>Comment:</u> Electronic Accessed Controlled Door. See Note 3 below.</p>
<p><b><u>Door 143</u></b></p>	<p><b><u>Door 144</u></b></p>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts 1 closer 1 wall stop 1 kickplate</p>	<p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>
<p><b><u>Door 145</u></b></p>	<p><b><u>Door 146</u></b></p>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-GSR-626</li> <li>• "0" Bitted L4 Cylinders</li> <li>• ANSI No.: F07(K)</li> </ul> <p>3 butts 1 kickplate 1 closer 1 weatherstripping 1 electric strike 1 door sweep <u>Comment:</u> Knob trim. Electronic Accessed Controlled Door. See Note 3 below.</p>	<p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>

<p><b><u>Door 147</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-GSR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07(K)</li> </ul> <p>3 butts 1 kickplate 1 closer 1 electric strike <u>Comment:</u> Knob trim. Electronic Access Controlled Door. See Note 3 below.</p>	<p><b><u>Door 148</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 kickplate 1 electric strike 1 weatherstripping 1 door sweep <u>Comment:</u> Electronic Access Controlled Door. See Note 3 below.</p>
<p><b><u>Door 149</u></b></p> <p>1 lockset (no trim on the inside):</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2011-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F18</li> </ul> <p>3 butts 1 weatherstripping 1 drop seal (coordinate w/ Section 08 34 74) 1 kickplate <u>Comment:</u> Provide cylinder pull.</p>	<p><b><u>Door 150</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>
<p><b><u>Door 151</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>	<p><b><u>Door 152</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 kickplate</p>

<p><b><u>Door 153</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts 1 closer 1 wall stop 1 electric strike 1 kickplate <u>Comment:</u> Electronic Accessed Controlled Door. See Note 3 below.</p>	<p><b><u>Door 154</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model:ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts 1 closer 1 wall stop 1 kickplate</p>
<p><b><u>Door 155</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 kickplate</p>	<p><b><u>Door 156</u></b></p> <p>SEE DETENTION DOOR AND FRAMES 08 34 63</p>
<p><b><u>Door 157</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2057-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F07</li> </ul> <p>3 butts (non-removable pins) 1 closer 1 kickplate</p>	<p><b><u>Door 158A</u></b></p> <p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinders</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins) 1 weatherstripping 1 door sweep 1 closer 1 latch guard 1 kickplate 1 electric strike 1 door viewer (view to exterior) 1 threshold <u>Comment:</u> Electronic Accessed Controlled Door. See Note 1 below.</p>

<b><u>Door 158B</u></b>	<b><u>Door 159</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2010-LWR-626</li><li>• ANSI No.: F01</li></ul> 3 butts 1 closer 1 wall stop 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2051-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F04</li></ul> 3 butts 1 weather stripping 1 drop seal (coordinate with Section 08 34 74) 1 wall stop 1 kickplate
<b><u>Door 160</u></b>	<b><u>Door 161</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2051-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F04</li></ul> 3 butts 1 weatherstripping 1 door sweep 1 wall stop 1 kickplate	1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2065-LWR-626</li><li>• "0" Bitted L4 Cylinder</li><li>• ANSI No.: F13</li></ul> 3 butts 1 weather stripping 1 drop seal (coordinate w/ Section 08 34 74) 1 wall stop 1 kickplate
<b><u>Door 162</u></b>	<b><u>Door 163.1</u></b>
1 lockset: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2051-LWR-626</li><li>• ANSI No.: F04</li></ul> 3 butts 1 closer 1 weatherstripping 1 drop seal (coordinate w/ Section 08 34 74) 1 kickplate 1 wall stop	1 passage set: <ul style="list-style-type: none"><li>• Full Mortise</li><li>• Model: ML2050-LWR-626</li><li>• Half Dummy Trim</li></ul> 3 butts Spring-loaded roller latch closure 1 kickplate



<b><u>Door 164A</u></b>	<b><u>Door 164B</u></b>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts            1 closer w/ integral hold open            1 weatherstripping            1 drop seal (coordinate w/ Section 08 34 74)            1 wall stop            1 kickplate            1 threshold            1 electric strike  <u>Comment:</u> Electronic Accessed Controlled Door.            See Note 1 below.</p>	<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts            1 closer            1 weatherstripping            1 drop seal (coordinate w/ Section 08 34 74)            1 wall stop            1 kickplate            1 threshold            1 electric strike  <u>Comment:</u> Electronic Accessed Controlled Door.            See Note 1 below.</p>
<b><u>Door 165A</u></b>	<b><u>Door 165B</u></b>
<p>1 lockset:</p> <ul style="list-style-type: none"> <li>• Full Mortise</li> <li>• Model: ML2029-LWR-626</li> <li>• "0" Bitted L4 Cylinder</li> <li>• ANSI No.: F15</li> </ul> <p>3 butts (non-removable pins)            1 weatherstripping            1 door sweep            1 threshold            1 closer</p>	<p>Two (2) sliding latch bolts from interior by overhead door manufacturer.            SEE SECTIONAL METAL DOORS            08 36 13</p>

Note 1: Prepare frame for installation of SDC Model 55 DU-630 electric strike (24Vdc). Ensure Deadbolt keepers are installed and aligned in door frame where there are lock sets with deadbolts.

Note 2: Prep door with SDC 55 series electric strike specified for handicap assist door latch release.

Note 3: Prepare frame for installation of SDC Model 55 ABCU-630 electric strike (24Vdc). Ensure Deadbolt keepers are installed and aligned in door frame where there are lock sets with deadbolts.

**END OF SECTION**