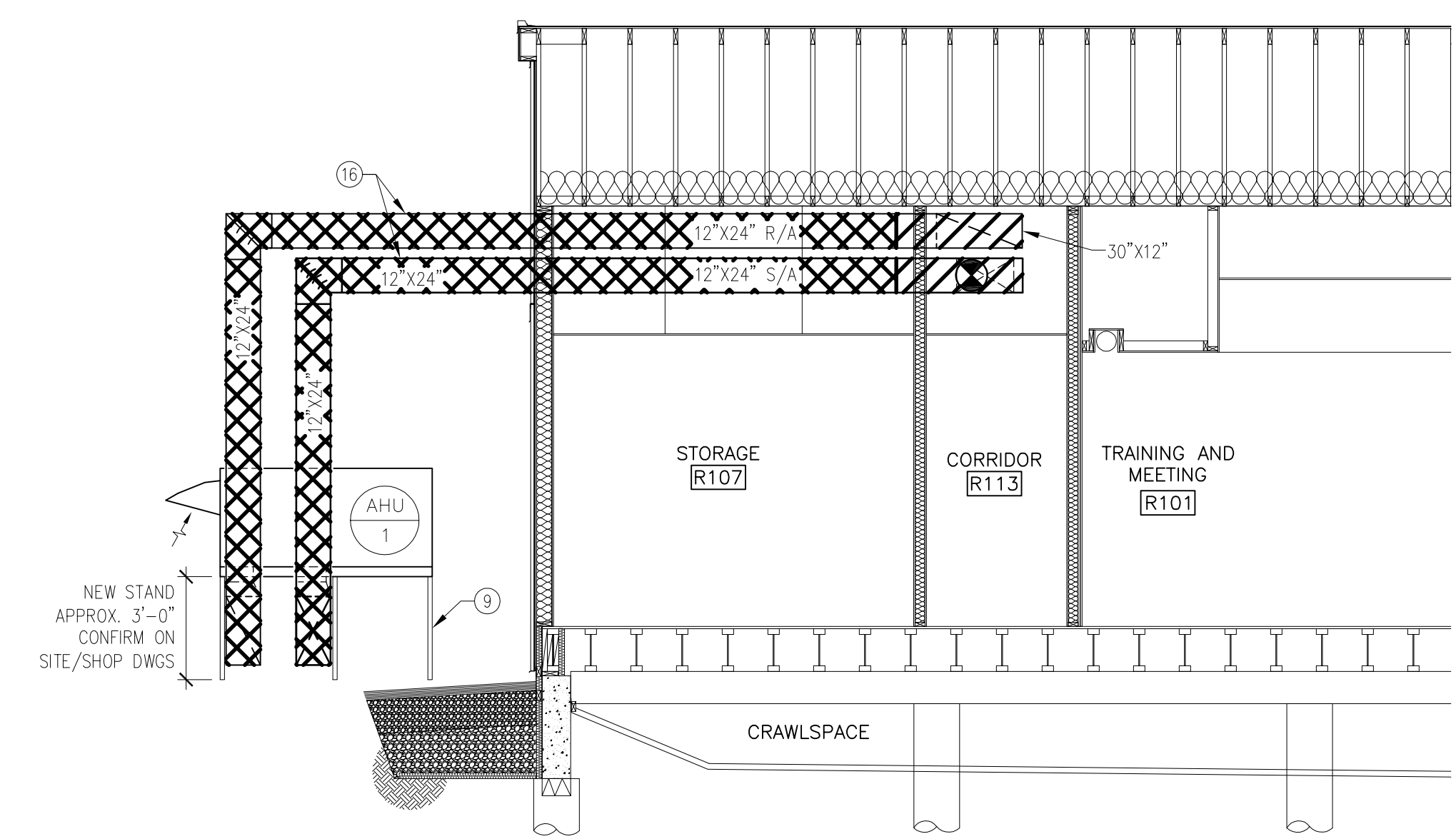
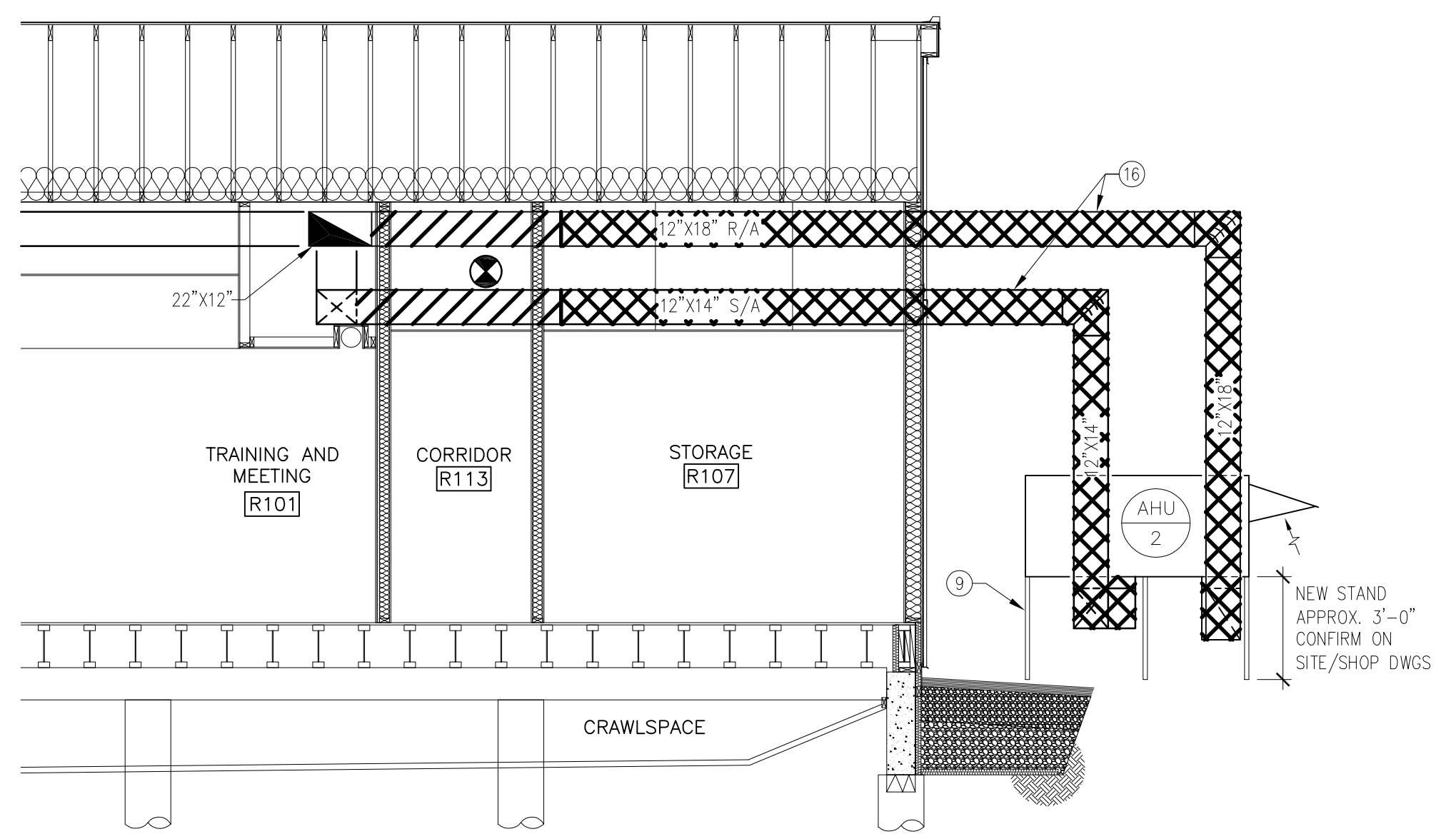


1 MAIN FLOOR PLAN - HVAC.
M3.0/M3.0 SCALE: 1/4" = 1'-0"



2 BUILDING SECTION - HVAC.
M3.0/M3.0 SCALE: 1/4" = 1'-0"



3 BUILDING SECTION - HVAC.
M3.0/M3.0 SCALE: 1/4" = 1'-0"

DRAWING NOTES: ##

1. PROVIDE NEW CRAWLSPACE VENTILATION FAN F-1 GREENHECK MODEL CSP-B110 IN CRAWLSPACE. F-1 TO BE 100 CFM CAPACITY @ 0.5" ESP, 120V/1Ø, 8ØW. CONTROL BY HUMIDISTAT LOCATED IN CENTER OF CRAWLSPACE. PROVIDE 6"Ø WALL CAP C/W B.D.D.
2. PROVIDE NEW 6"X6" CRAWLSPACE VENTILATION DUCT C/W B.D.D. AND EXTERIOR WALL CAP.
3. RELOCATE EXISTING ELECTRIC ENTRANCE HEATER C/W THERMOSTAT AS INDICATED (BY DIVISION 16).
4. NEW 3 KW ELECTRIC ENTRANCE HEATER SUPPLIED AND INSTALLED BY DIVISION 16.
5. EXISTING FURNACE SERVING EXISTING BUILDING TO REMAIN.
6. PROVIDE ACOUSTICALLY LINED TRANSFER AIR ELBOW IN CEILING SPACE. SIZE AS INDICATED.
7. NEW ELECTRIC BASEBOARD HEATER SUPPLIED AND INSTALLED BY DIVISION 16, CONTROL BY DIVISION 15.
8. NEW 4 KW ELECTRIC UNIT HEATER C/W INTEGRAL THERMOSTAT IN CRAWLSPACE BELOW.
9. AHU-2 TO BE MOUNTED ON STAND BY OTHERS. COORDINATE SIZE AND LOCATION WITH SHOP DRAWINGS AND ON SITE.
10. MAIN AHU-1 CONTROL PANEL/THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH THE CONTRACT ADMINISTRATOR.
11. MAIN AHU-2 CONTROL PANEL/THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH THE CONTRACT ADMINISTRATOR.
12. RETURN AIR DUCT ENDED IN CEILING SPACE ABOVE. PROVIDE ACOUSTIC INSULATION AS INDICATED.
13. PROVIDE NEW GREENHECK MODEL SP-B90, 95 CFM @ 7" S.P., 120V, 5ØW. CONTROL BY SWITCH AS INDICATED.
14. 6"Ø ACOUSTICALLY LINED DUCT OPEN ENDED IN CEILING SPACE.
15. NEW AIR HANDLING UNITS AS PER SPECIFICATIONS AND DETAILS. PROVIDE FLEXIBLE DUCT CONNECTIONS AT UNITS.
16. NEW DUCTWORK TO BE SUPPORTED ACCORDING TO LOCAL CODES AND AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL ALLOW FOR SUPPLY AND INSTALL OF MISC. METAL TO SUPPORT DUCTWORK.

BYPASS BOX SCHEDULE:
(BASED ON E.H.PRICE MODEL LGB - CONTROL SEQUENCE 2503)

| NO. | SIZE | RANGE | | SETTING MAX (CFM) |
|------|------|-----------|-----------|----------------------|
| | | MIN (CFM) | MAX (CFM) | |
| BP-1 | 8 | 72 | 216 | 216 |
| BP-2 | 8 | 72 | 216 | 216 |
| BP-3 | 8 | 72 | 216 | 216 |
| BP-4 | 8 | 72 | 216 | 216 |
| BP-5 | 10 | 118 | 354 | 354 |
| BP-6 | 8 | 70 | 212 | 212 |
| BP-7 | 8 | 82 | 247 | 247 |
| - | - | - | - | - |

GENERAL NOTES:

1. REFER TO SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR DIVISION 15 AND DIVISION 16 RESPONSIBILITIES.
2. BASEBOARD HEATERS, FORCE FLOW UNITS AND UNIT HEATERS TO BE SUPPLIED AND INSTALLED DIVISION 16, CONTROLS BY DIVISION 15.
3. LOW VOLTAGE WIRING BETWEEN THERMOSTAT, BYPASS BOX AND AUXILIARY HEAT RELAY PROVIDED & INSTALLED BY CONTROLS DIVISION 15.

AIR HANDLING UNIT INFORMATION:

- AHU-1 AAO 'HB' SERIES NATURAL GAS HEATING/ ELECTRIC DX COOLING PACKAGED UNIT C/W VERTICAL SUPPLY & RETURN AIR OPENINGS, ECONOMIZER AND RETURN AIR BY-PASS. UNIT CAPACITIES:
 - 58 MBH TOTAL COOLING
 - 60 MBH TOTAL HEATING
 - 2100 CFM SUPPLY AIR
 - 320 CFM MAXIMUM OUTDOOR AIR
- AHU-2 AAO 'RM' SERIES NATURAL GAS HEATING/ ELECTRIC DX COOLING PACKAGED UNIT C/W VERTICAL SUPPLY & RETURN AIR OPENINGS, ECONOMIZER AND RETURN AIR BY-PASS. UNIT CAPACITIES:
 - 37.7 MBH TOTAL COOLING
 - 69.0 MBH TOTAL HEATING
 - 1080 CFM SUPPLY AIR
 - 600 CFM MAXIMUM OUTDOOR AIR



| REV | DESCRIPTION | DATE | BY |
|-----|-----------------------|--------------|-----|
| 2 | REVISED FOR TENDER | Jul 26, 2006 | LK |
| 1 | ISSUED FOR TENDER | May 10, 2006 | DAS |
| 0 | ISSUED FOR 99% REVIEW | May 03, 2006 | DAS |

SEAL: **APEGN**
 Certificate of Authorization
 SMS Engineering Ltd.
 No. 166 Expiry: April 30, 2007

ORIGINAL CONTRACT DRAWING
 SIGNED AND SEALED BY
 I.D. KELLY, P. ENG
 MAY 10, 2006

THIS DRAWING MUST NOT BE SCALED.
 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK AND IS HELD RESPONSIBLE FOR REPORTING ANY DISCREPANCY OR OMISSION TO THE CONTRACT ADMINISTRATOR IMMEDIATELY.
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MAIN FLOOR & CRAWLSPACE PLANS H.V.A.C.

PROJECT: **ADDITION TO 770 ROSS AVENUE**

Winnipeg, Manitoba

Neil Cooper Architect Inc.
 10-395 Berry Street, Winnipeg, Manitoba R3J 1N6

SMS ENGINEERING
 SMS Engineering Consulting Engineers
 770 Bradford Street Winnipeg MB Canada R3H 0N3
 Telephone 204.775.0291 Fax 204.772.2153
 06-520-01 sms@smseng.com

DRAWN BY: DM CHECKED BY: DAS SHEET NO: REV NO:
 DATE: APRIL 18, 2006
 SCALE: AS NOTED

M20R2

FILE: G:\PROJECTS\2006_SP\06520NCA.COW\cadd\M\6520H1.dwg