

REVISION NUMBER	DATE



5	100% SUBMISSION	FEB/26/13	FDW
4	100% SUBMISSION	DEC/7/12	FDW
3	90% SUBMISSION	OCT/12/12	FDW
2	ISSUED FOR FOUNDATION CONTR.	JULY 26/12	FDW
1	ISSUED FOR FOUNDATION PERMIT	JULY 25/12	FDW
0	90% SUBMISSION	JULY 18/12	FDW
No.	REVISION	DATE	BY

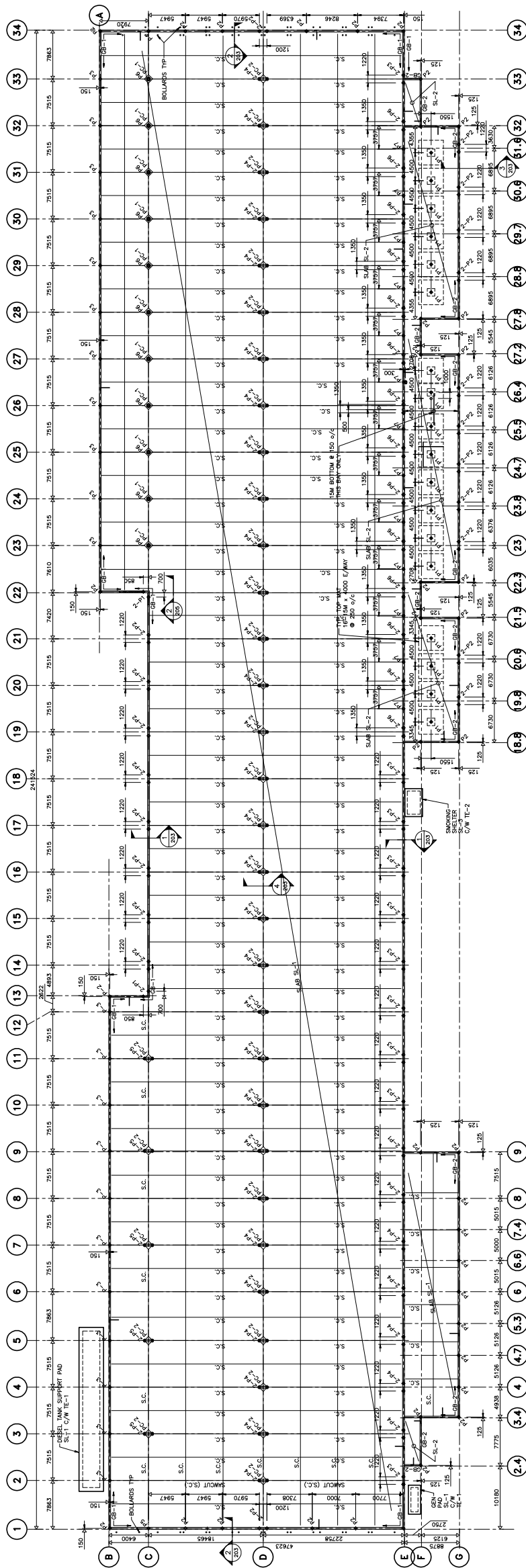
The contents of this drawing including all information and conditions are the property of Caspian Projects Inc. and are not to be reproduced, reprinted or redrawn for any purpose, for profit or otherwise, without explicit written permission.

**WOLFROM ENGINEERING LTD.**  
 CONSULTING ENGINEERS  
 1000-1000 WINDERMERE DRIVE  
 WINDERMERE, MANITOBA R2S 1S5  
 CANADA  
 TEL: (204) 775-1111  
 FAX: (204) 775-1112  
 E-MAIL: info@wolfrom.com

**TRANSIT BUS PARKING  
 & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

**SHEET TITLE**  
**FOUNDATION & MAIN FLOOR FRAMING PLAN**

Project number	WI 2009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW



**FOUNDATION & MAIN FLOOR FRAMING PLAN**

1 : 300  
 ALL PILES TO BE [ ] PILES U/NOTED  
 TOP OF PILE ELEV. BELOW OR BMS = 99 400 U/NOTED  
 TOP OF PILE ELEV. BELOW OR BMS AT OFFICES = 99 450 U/NOTED  
 TOP OF PILE ELEV. BELOW PILECAPS = 99 100 U/NOTED

**DESIGN LOADS**  
 GARAGE AREAS: 18 kPa, UEL  
 LIVE LOAD = 110.0 kN/AZEL POINT LOAD  
 OFFICE/LODGER ROOMS:  
 LIVE LOAD = 4.8 kPa  
 MECHANICAL ROOM:  
 LIVE LOAD = 6.0 kPa

**C-H-P PILE SCHEDULE:**  
 P-1: 400# CONC. PILE X 13.0M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-2: 400# CONC. PILE X 11.0M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-3: 400# CONC. PILE X 12.0M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-4: 450# CONC. PILE X 13.5M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-5: 400# CONC. PILE X 11.5M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-6: 400# CONC. PILE X 15.0M LONG X 6.0M LONG VERT. REM. # 600 0/6  
 P-7: 400# CONC. PILE X 9.0M LONG X 6.0M LONG VERT. REM. # 600 0/6

**GRADE BEAM SCHEDULE:**  
 GB-1: 300 X 1800 DEEP CONC. BM X 2-20M EXTRA BOTT ALONG 'Y' & '34'  
 1-10M RINGS TOP  
 4-20M VERT. & EA. STEEL COLL. LOC'D ON 150 WOODFORM BELOW  
 REM. # 600 0/6  
 GB-2: 250 X 600 DEEP CONC. BM R/W 2-20M T & B  
 150 WOODFORM BELOW  
 REM. # 600 0/6

**SLAB SCHEDULE:**  
 S-1: 145 CONC. SLAB ON COMPACTED GRAVEL FILL AS OUTLINED ON GENERAL NOTES SHEET 200 0/6 AT ALL DOOR LOCATIONS FINISH FLOOR W/ DAMAG 7 HARDNER  
 S-2: 150 CONC. SLAB ON 150 WOODFORM BELOW  
 S-3: 125 CONC. SLAB ON COMPACTED GRAVEL FILL AS OUTLINED ON GENERAL NOTES SHEET 200

**THICKENED EDGE SCHEDULE:**  
 TE-1: 200 X 800 DEEP CONC. PILECAP R/W 8.0M RINGS TOP & BOTT  
 REM. # 300 0/6  
 TE-2: 250 X 250 THICK. EDGE ON 150 WOODFORM BELOW  
 REM. # 400 0/6

**NOTE:**  
 1. ALL CONC. PILES TO BE PRECASTING 1000 INTO ALL UPSTAND GRADE BEAMS  
 2. ALL CONC. PILES TO BE PRECASTING 1000 INTO ALL UPSTAND GRADE BEAMS  
 3. ALL CONC. PILES TO BE PRECASTING 1000 INTO ALL UPSTAND GRADE BEAMS

**DESIGN LOADS**  
 GARAGE AREAS: 18 kPa, UEL  
 LIVE LOAD = 110.0 kN/AZEL POINT LOAD  
 OFFICE/LODGER ROOMS:  
 LIVE LOAD = 4.8 kPa  
 MECHANICAL ROOM:  
 LIVE LOAD = 6.0 kPa

C:\12\FB\W12009\Drawings\100 PERCENT SUBMISSION\W12009 V2.dwg



REVISION / DATE / BY



5	100% SUBMISSION	FEB. 26/13	FDW
4	100% SUBMISSION	DEC. 7/12	FDW
3	90% SUBMISSION	OCT. 15/12	FDW
2	ISSUED FOR FOUNDATION CONTR.	JULY 26/12	FDW
1	ISSUED FOR FOUNDATION PERMIT	JULY 25/12	FDW
0	60% SUBMISSION	JULY 18/12	FDW
No.	REVISION	DATE	BY

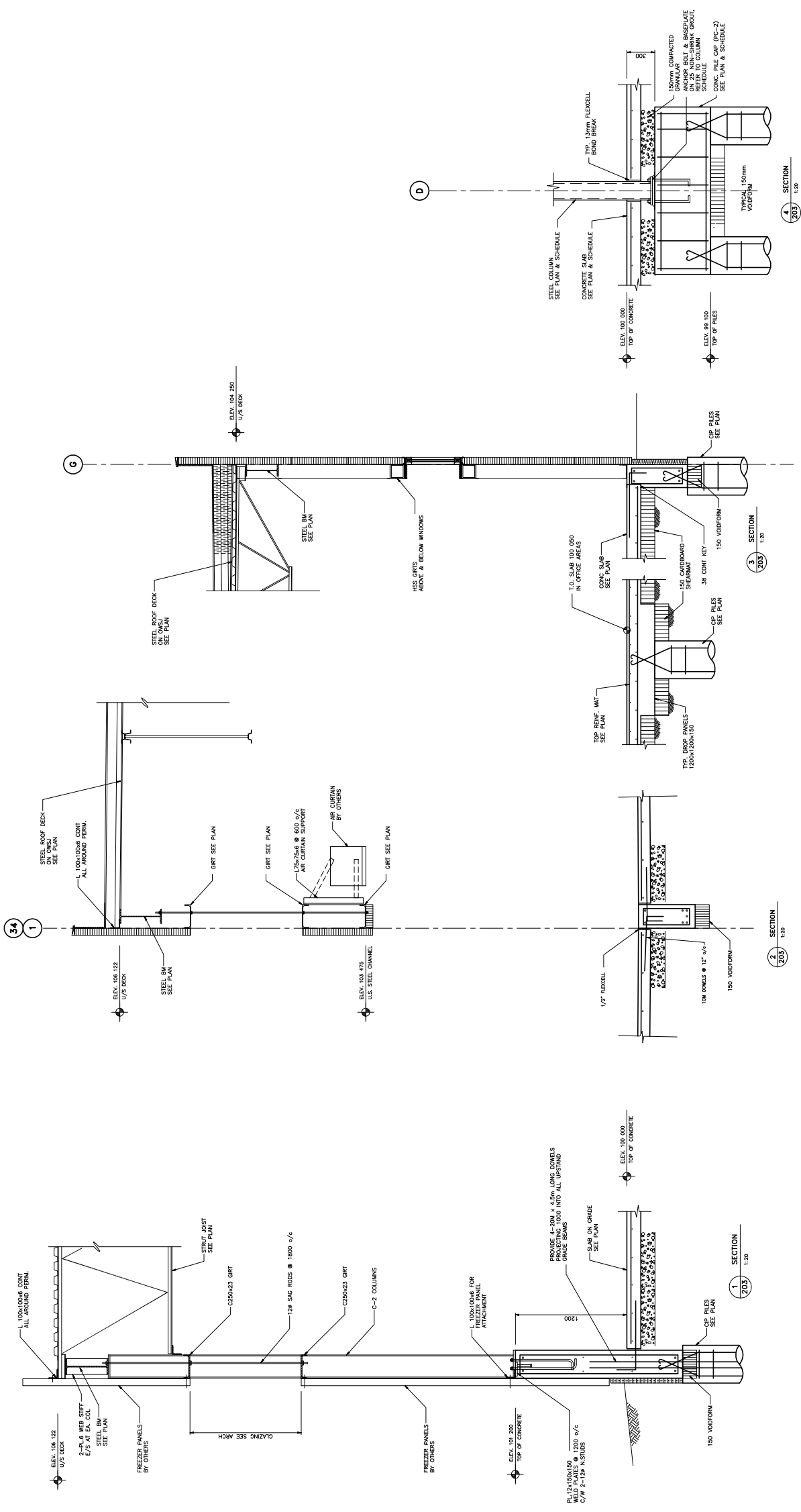
The contents of this drawing, including all information, are the property of WOLF FROM ENGINEERING LTD. and are not to be reproduced, reprinted or redrawn for any purpose, for profit or otherwise, without explicit written permission.

**WOLF FROM ENGINEERING LTD.**  
 CONSULTING ENGINEERS  
 1000 UNIVERSITY AVENUE  
 WINNIPEG, MANITOBA R2S 0A5  
 CANADA  
 TEL: 204-944-8888  
 FAX: 204-944-8889  
 E-MAIL: wolf@wolf.com

**TRANSIT BUS PARKING  
 & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

**SECTIONS & DETAILS**

Project number	WI 2009
Date	August 30, 2012
Drawn by	CHS
Checked by	FDW



SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20

SECTION 203 1:20







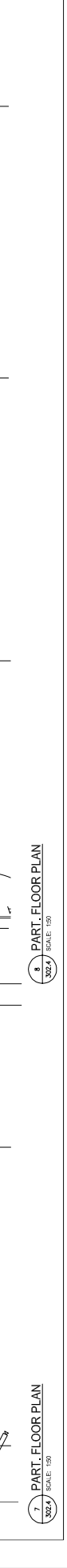
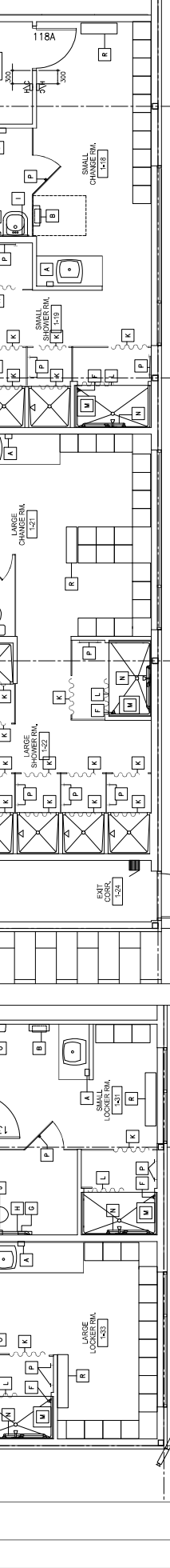
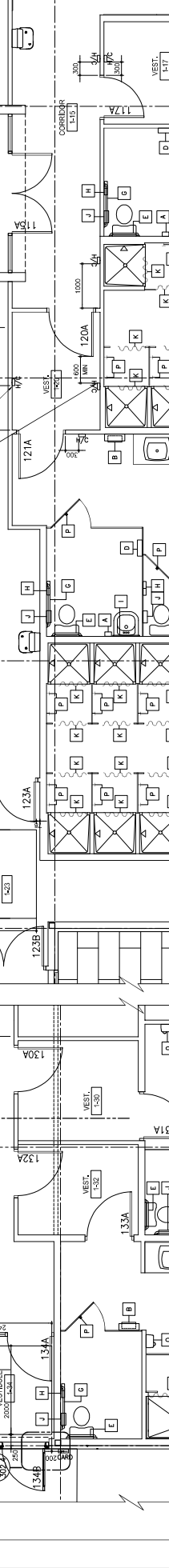
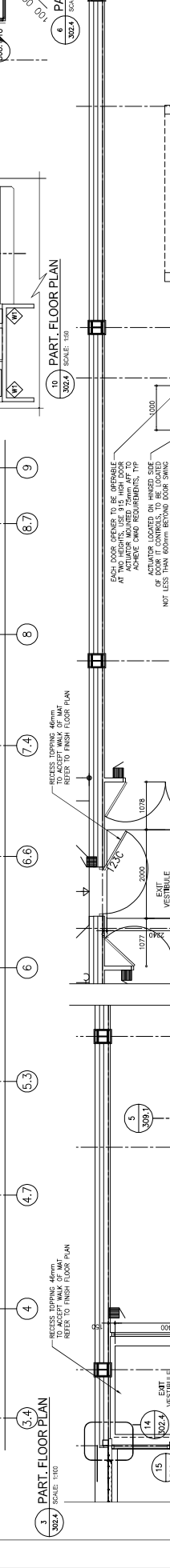
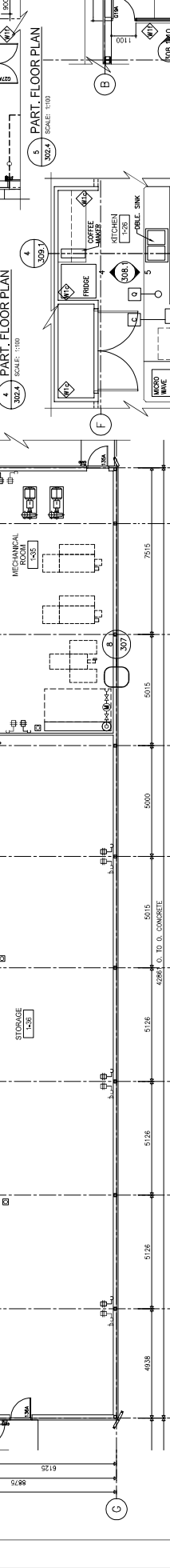
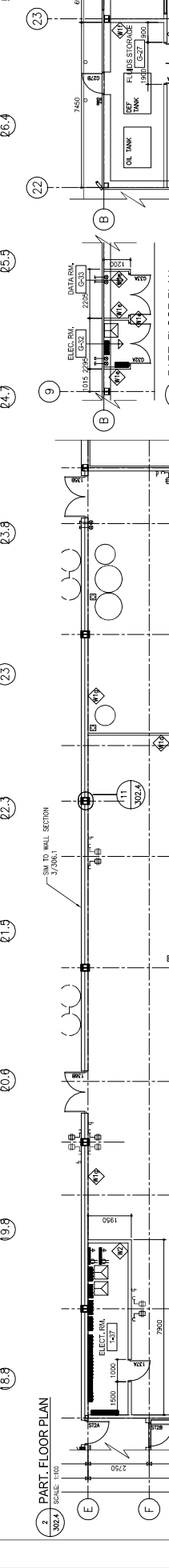
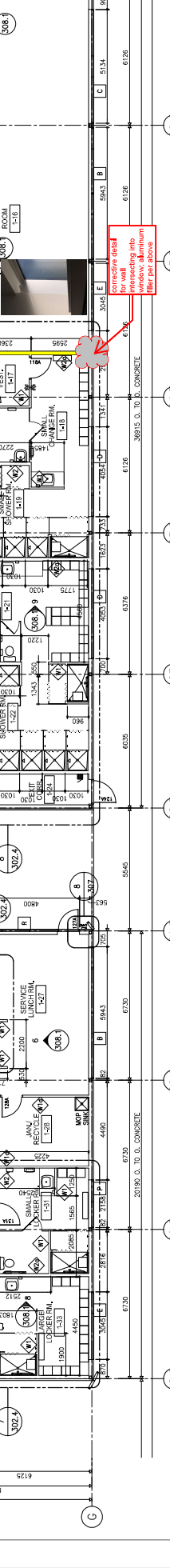
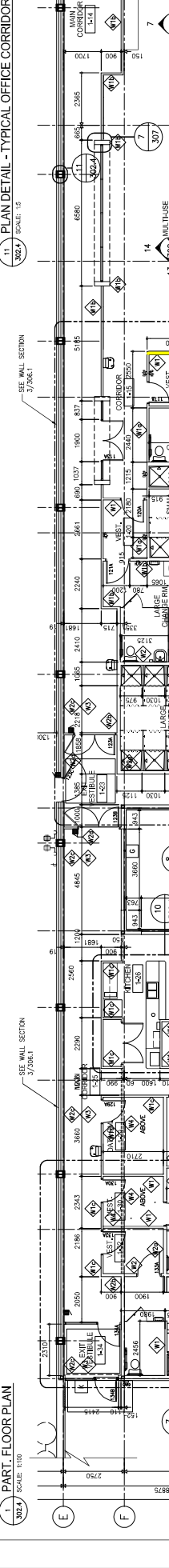
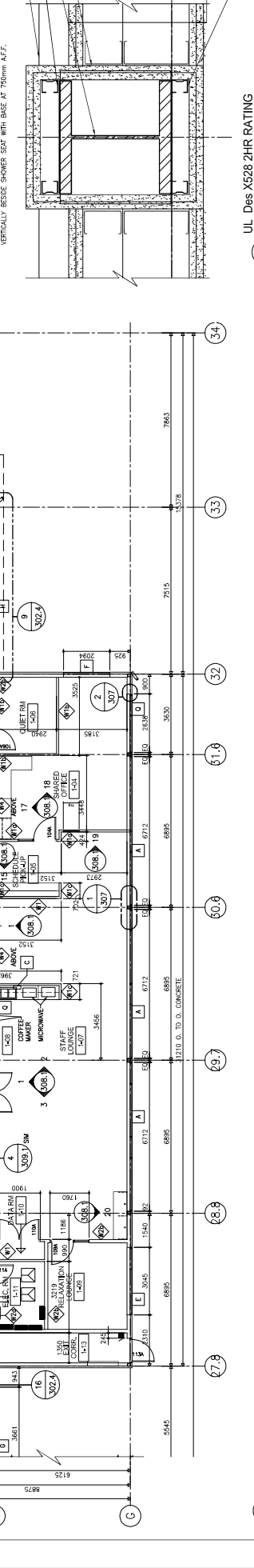
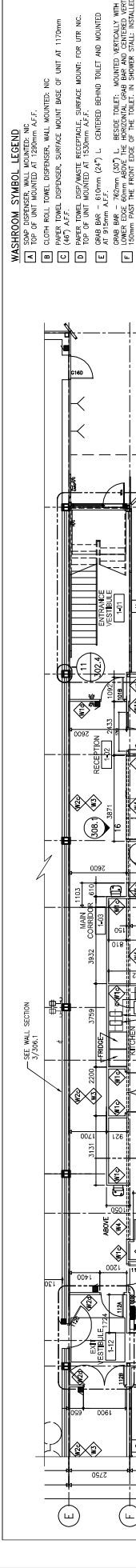
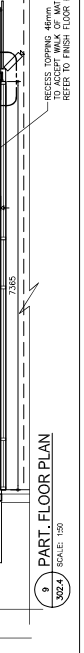
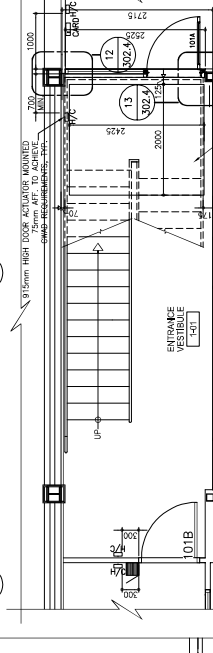
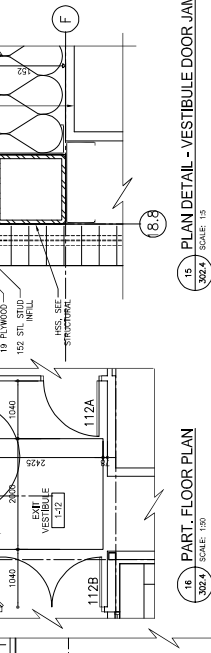
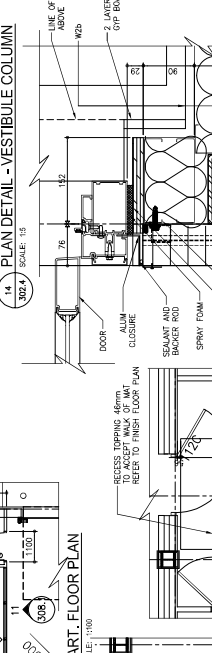
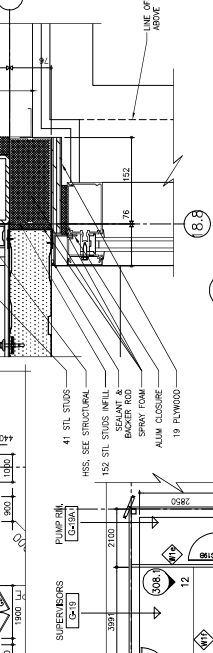
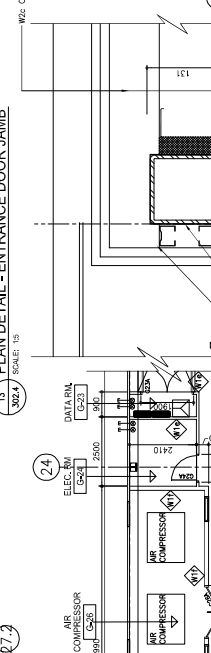
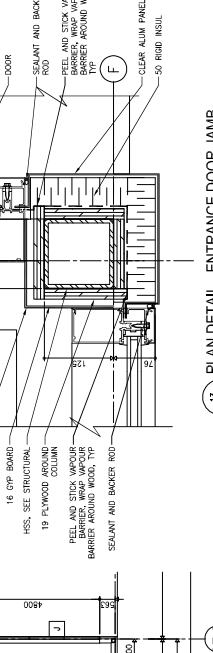
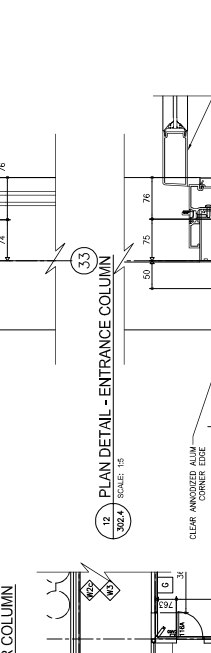
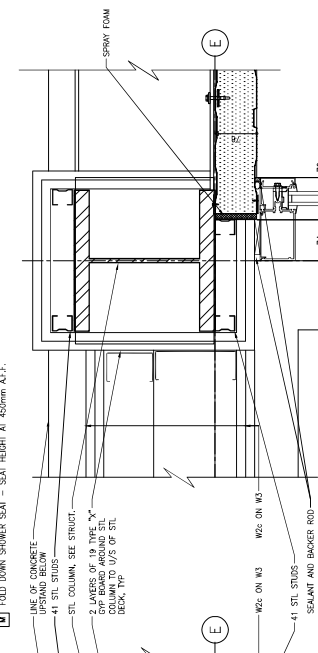
REVISED	DATE	DESCRIPTION
1	10/20/2012	ISSUED FOR PERMITS
2	10/20/2012	ISSUED FOR SUBMISSION
3	10/20/2012	ISSUED FOR REVIEW
4	10/20/2012	ISSUED FOR CONSTRUCTION

**GENERAL NOTES:**  
 EXTERIOR OVERALL DIMENSIONS ARE SHOWN TO O/C OF  
 CONCRETE FOUNDATION OR O/C OF  
 STEEL COLUMN.

**INTERIOR WALL TYPES**

- 1. 18 G.W. STUDS @ 400 O.C.
- 2. 18 G.W. STUDS @ 400 O.C.
- 3. 18 G.W. STUDS @ 400 O.C.
- 4. 18 G.W. STUDS @ 400 O.C.
- 5. 18 G.W. STUDS @ 400 O.C.
- 6. 18 G.W. STUDS @ 400 O.C.
- 7. 18 G.W. STUDS @ 400 O.C.
- 8. 18 G.W. STUDS @ 400 O.C.
- 9. 18 G.W. STUDS @ 400 O.C.
- 10. 18 G.W. STUDS @ 400 O.C.
- 11. 18 G.W. STUDS @ 400 O.C.
- 12. 18 G.W. STUDS @ 400 O.C.
- 13. 18 G.W. STUDS @ 400 O.C.
- 14. 18 G.W. STUDS @ 400 O.C.
- 15. 18 G.W. STUDS @ 400 O.C.
- 16. 18 G.W. STUDS @ 400 O.C.
- 17. 18 G.W. STUDS @ 400 O.C.
- 18. 18 G.W. STUDS @ 400 O.C.
- 19. 18 G.W. STUDS @ 400 O.C.
- 20. 18 G.W. STUDS @ 400 O.C.
- 21. 18 G.W. STUDS @ 400 O.C.
- 22. 18 G.W. STUDS @ 400 O.C.
- 23. 18 G.W. STUDS @ 400 O.C.
- 24. 18 G.W. STUDS @ 400 O.C.
- 25. 18 G.W. STUDS @ 400 O.C.
- 26. 18 G.W. STUDS @ 400 O.C.
- 27. 18 G.W. STUDS @ 400 O.C.
- 28. 18 G.W. STUDS @ 400 O.C.
- 29. 18 G.W. STUDS @ 400 O.C.
- 30. 18 G.W. STUDS @ 400 O.C.
- 31. 18 G.W. STUDS @ 400 O.C.
- 32. 18 G.W. STUDS @ 400 O.C.
- 33. 18 G.W. STUDS @ 400 O.C.
- 34. 18 G.W. STUDS @ 400 O.C.
- 35. 18 G.W. STUDS @ 400 O.C.
- 36. 18 G.W. STUDS @ 400 O.C.
- 37. 18 G.W. STUDS @ 400 O.C.
- 38. 18 G.W. STUDS @ 400 O.C.
- 39. 18 G.W. STUDS @ 400 O.C.
- 40. 18 G.W. STUDS @ 400 O.C.
- 41. 18 G.W. STUDS @ 400 O.C.
- 42. 18 G.W. STUDS @ 400 O.C.
- 43. 18 G.W. STUDS @ 400 O.C.
- 44. 18 G.W. STUDS @ 400 O.C.
- 45. 18 G.W. STUDS @ 400 O.C.
- 46. 18 G.W. STUDS @ 400 O.C.
- 47. 18 G.W. STUDS @ 400 O.C.
- 48. 18 G.W. STUDS @ 400 O.C.
- 49. 18 G.W. STUDS @ 400 O.C.
- 50. 18 G.W. STUDS @ 400 O.C.
- 51. 18 G.W. STUDS @ 400 O.C.
- 52. 18 G.W. STUDS @ 400 O.C.
- 53. 18 G.W. STUDS @ 400 O.C.
- 54. 18 G.W. STUDS @ 400 O.C.
- 55. 18 G.W. STUDS @ 400 O.C.
- 56. 18 G.W. STUDS @ 400 O.C.
- 57. 18 G.W. STUDS @ 400 O.C.
- 58. 18 G.W. STUDS @ 400 O.C.
- 59. 18 G.W. STUDS @ 400 O.C.
- 60. 18 G.W. STUDS @ 400 O.C.
- 61. 18 G.W. STUDS @ 400 O.C.
- 62. 18 G.W. STUDS @ 400 O.C.
- 63. 18 G.W. STUDS @ 400 O.C.
- 64. 18 G.W. STUDS @ 400 O.C.
- 65. 18 G.W. STUDS @ 400 O.C.
- 66. 18 G.W. STUDS @ 400 O.C.
- 67. 18 G.W. STUDS @ 400 O.C.
- 68. 18 G.W. STUDS @ 400 O.C.
- 69. 18 G.W. STUDS @ 400 O.C.
- 70. 18 G.W. STUDS @ 400 O.C.
- 71. 18 G.W. STUDS @ 400 O.C.
- 72. 18 G.W. STUDS @ 400 O.C.
- 73. 18 G.W. STUDS @ 400 O.C.
- 74. 18 G.W. STUDS @ 400 O.C.
- 75. 18 G.W. STUDS @ 400 O.C.
- 76. 18 G.W. STUDS @ 400 O.C.
- 77. 18 G.W. STUDS @ 400 O.C.
- 78. 18 G.W. STUDS @ 400 O.C.
- 79. 18 G.W. STUDS @ 400 O.C.
- 80. 18 G.W. STUDS @ 400 O.C.
- 81. 18 G.W. STUDS @ 400 O.C.
- 82. 18 G.W. STUDS @ 400 O.C.
- 83. 18 G.W. STUDS @ 400 O.C.
- 84. 18 G.W. STUDS @ 400 O.C.
- 85. 18 G.W. STUDS @ 400 O.C.
- 86. 18 G.W. STUDS @ 400 O.C.
- 87. 18 G.W. STUDS @ 400 O.C.
- 88. 18 G.W. STUDS @ 400 O.C.
- 89. 18 G.W. STUDS @ 400 O.C.
- 90. 18 G.W. STUDS @ 400 O.C.
- 91. 18 G.W. STUDS @ 400 O.C.
- 92. 18 G.W. STUDS @ 400 O.C.
- 93. 18 G.W. STUDS @ 400 O.C.
- 94. 18 G.W. STUDS @ 400 O.C.
- 95. 18 G.W. STUDS @ 400 O.C.
- 96. 18 G.W. STUDS @ 400 O.C.
- 97. 18 G.W. STUDS @ 400 O.C.
- 98. 18 G.W. STUDS @ 400 O.C.
- 99. 18 G.W. STUDS @ 400 O.C.
- 100. 18 G.W. STUDS @ 400 O.C.

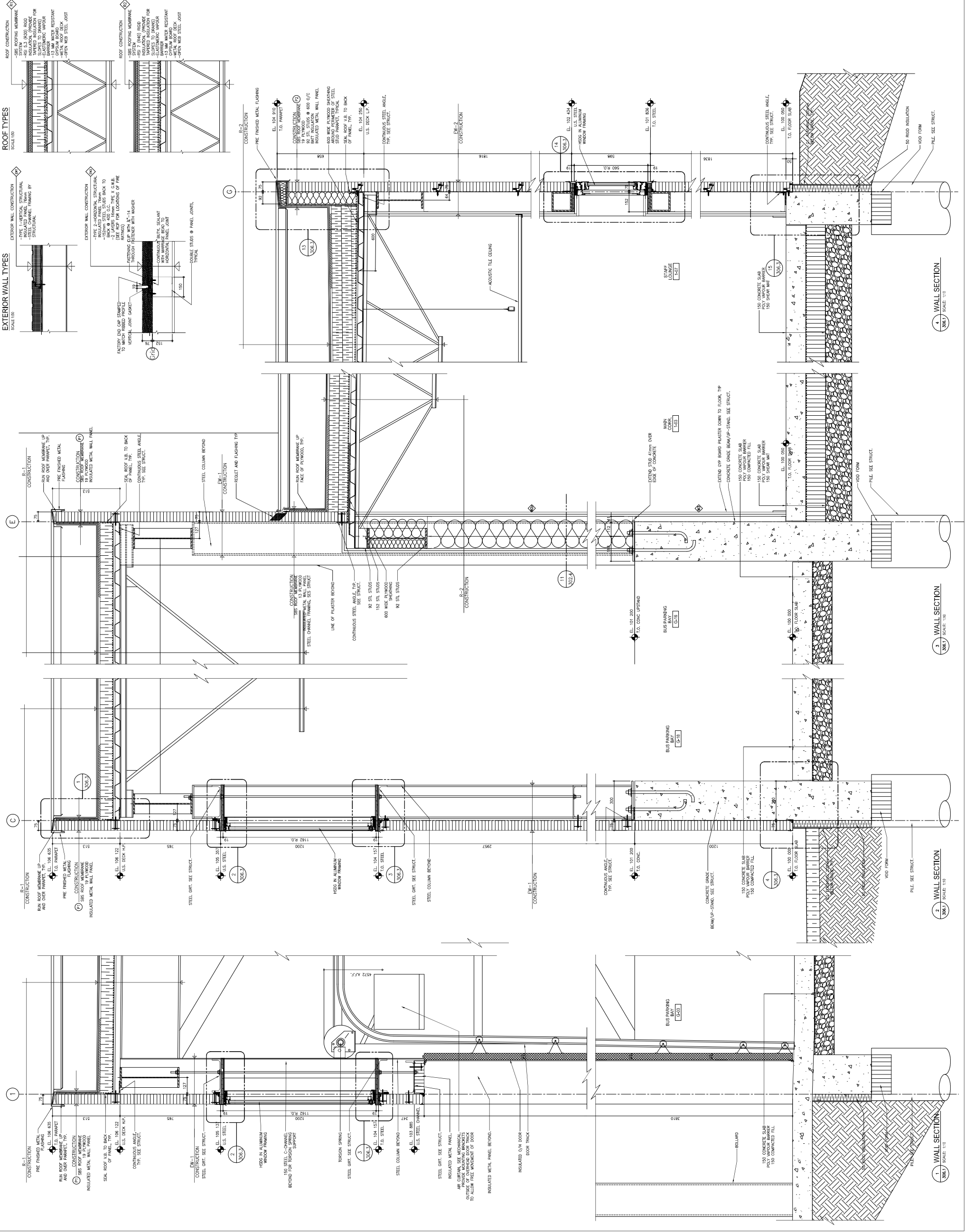
- WASHROOM SYMBOL LEGEND**
- A. 18 G.W. STUDS @ 400 O.C.
  - B. 18 G.W. STUDS @ 400 O.C.
  - C. 18 G.W. STUDS @ 400 O.C.
  - D. 18 G.W. STUDS @ 400 O.C.
  - E. 18 G.W. STUDS @ 400 O.C.
  - F. 18 G.W. STUDS @ 400 O.C.
  - G. 18 G.W. STUDS @ 400 O.C.
  - H. 18 G.W. STUDS @ 400 O.C.
  - I. 18 G.W. STUDS @ 400 O.C.
  - J. 18 G.W. STUDS @ 400 O.C.
  - K. 18 G.W. STUDS @ 400 O.C.
  - L. 18 G.W. STUDS @ 400 O.C.
  - M. 18 G.W. STUDS @ 400 O.C.
  - N. 18 G.W. STUDS @ 400 O.C.
  - O. 18 G.W. STUDS @ 400 O.C.
  - P. 18 G.W. STUDS @ 400 O.C.
  - Q. 18 G.W. STUDS @ 400 O.C.
  - R. 18 G.W. STUDS @ 400 O.C.
  - S. 18 G.W. STUDS @ 400 O.C.
  - T. 18 G.W. STUDS @ 400 O.C.
  - U. 18 G.W. STUDS @ 400 O.C.
  - V. 18 G.W. STUDS @ 400 O.C.
  - W. 18 G.W. STUDS @ 400 O.C.
  - X. 18 G.W. STUDS @ 400 O.C.
  - Y. 18 G.W. STUDS @ 400 O.C.
  - Z. 18 G.W. STUDS @ 400 O.C.







REVISED FOR SUBMISSION	20120212
ISSUED FOR PERMIT	20120212
ISSUED FOR CONSTRUCTION	20120212
ISSUED FOR CONSTRUCTION	20120212



**numberTEN**  
 architectural group  
 winnipeg, mb | regina, sk | victoria, bc  
 204.942.0991 | 306.721.1501 | 250.360.3106  
 architecture • interior design • graphic design

**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

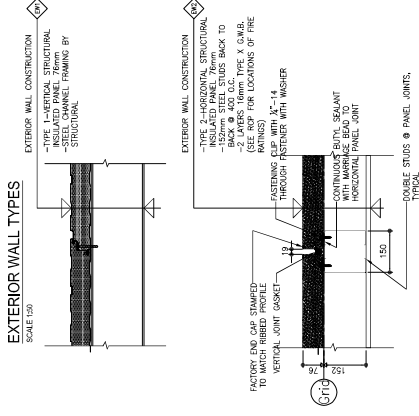
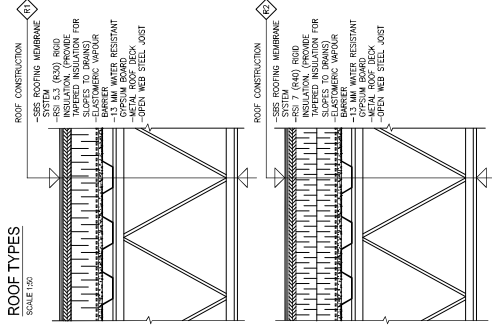
**WALL SECTIONS**

Project number: 2012021  
 Date: DEC. 7, 2012  
 Drawn by: M.S., R.C.  
 Checked by: R.E., K.F.

Scale: AS NOTED

306.1

ISSUED FOR PERMIT	ONE
ISSUED FOR SUBMISSION	20120121
ISSUED FOR REVIEW	20120121
ISSUED FOR CONSTRUCTION	20120121



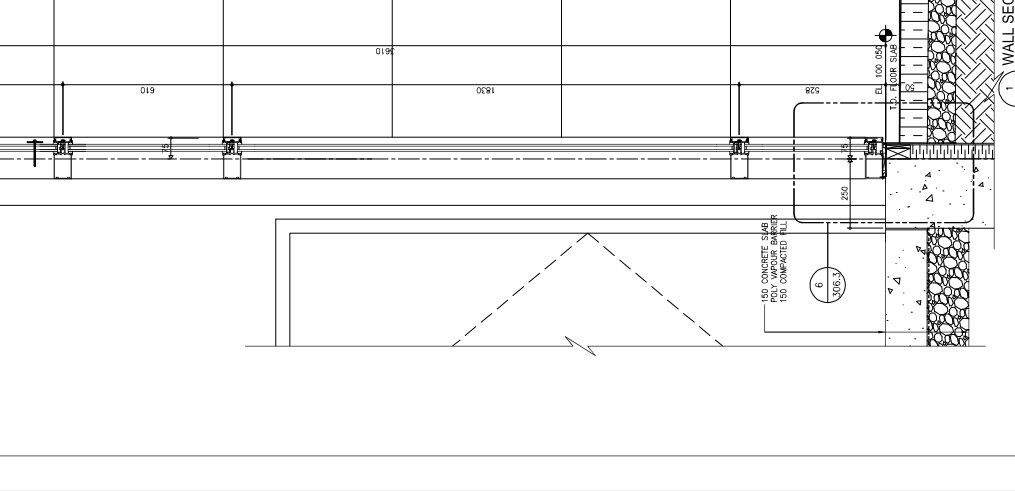
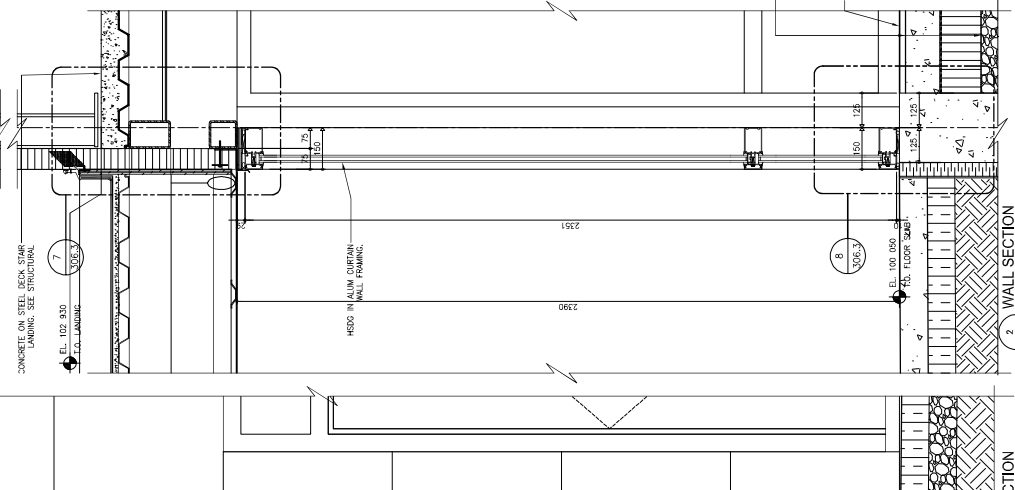
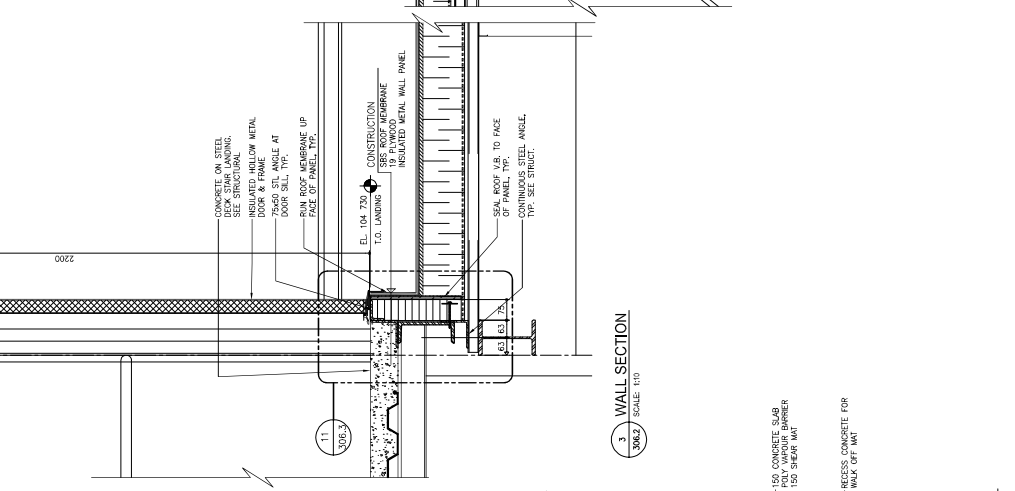
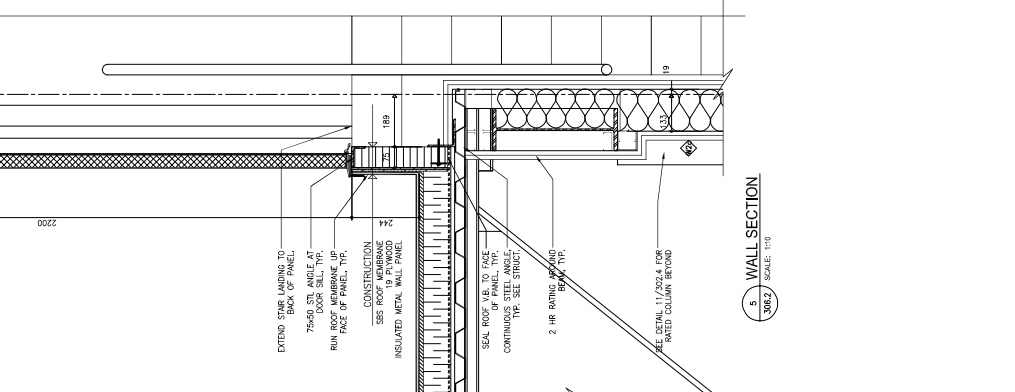
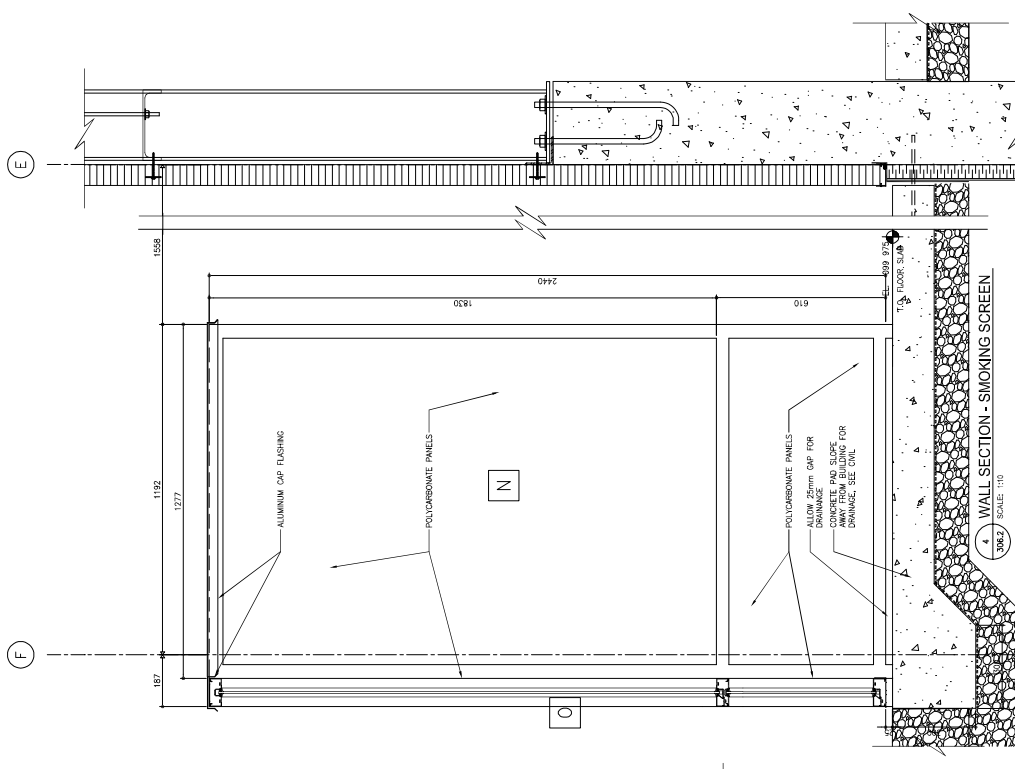
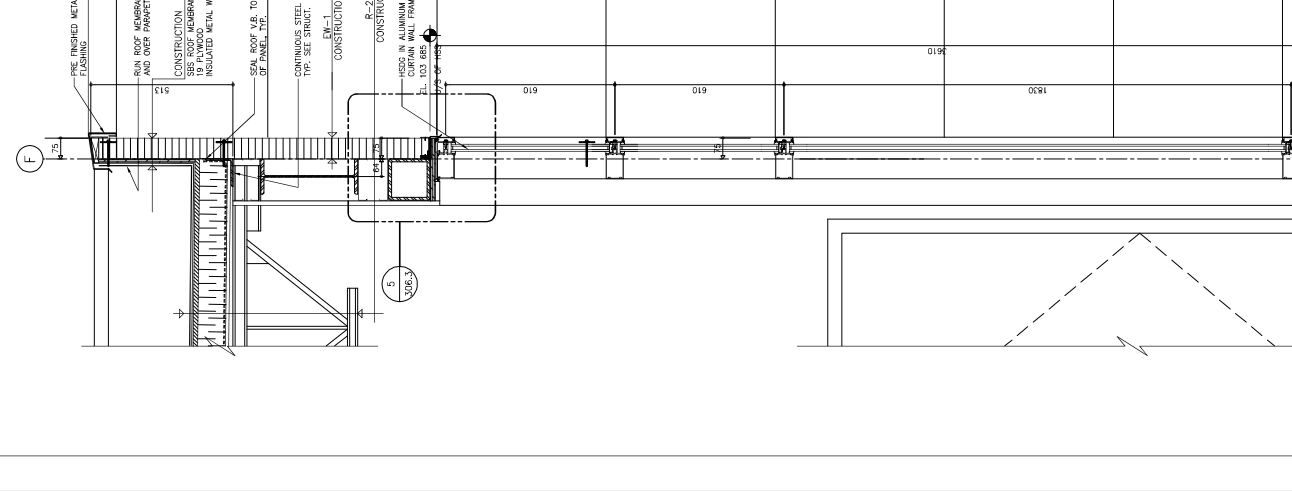
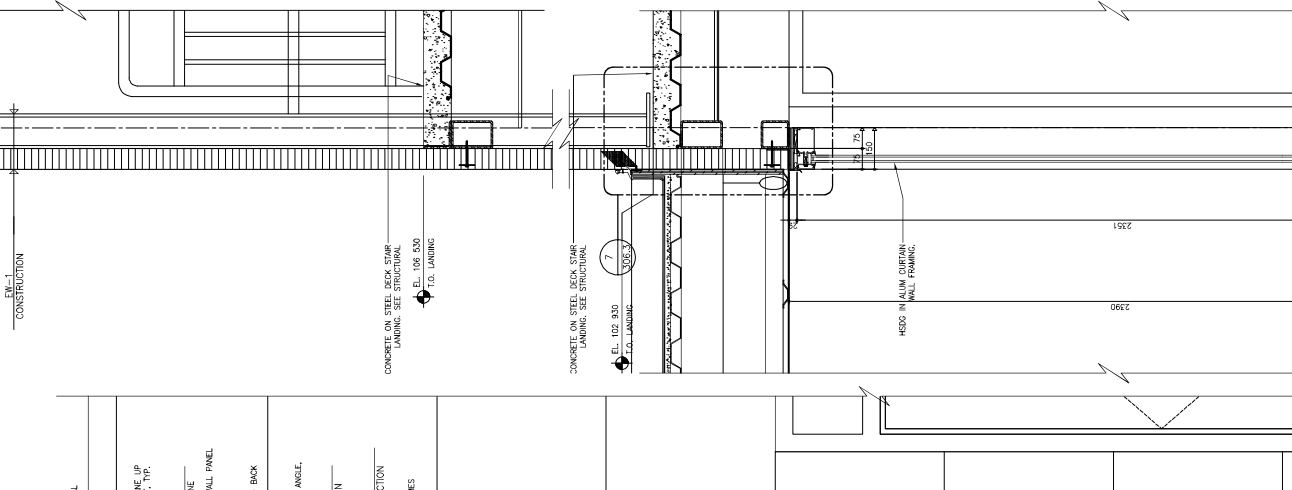
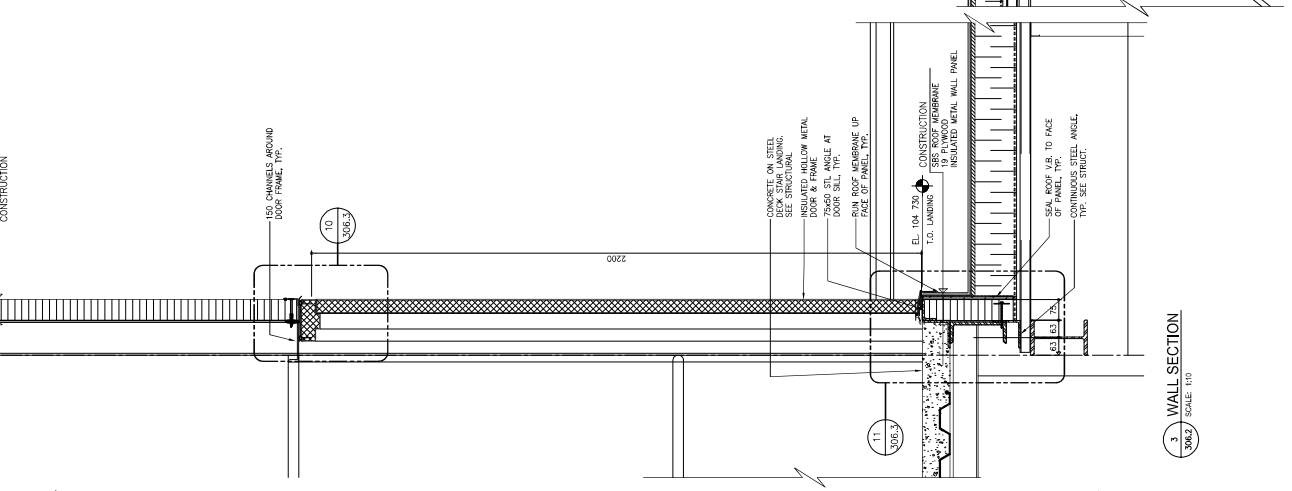
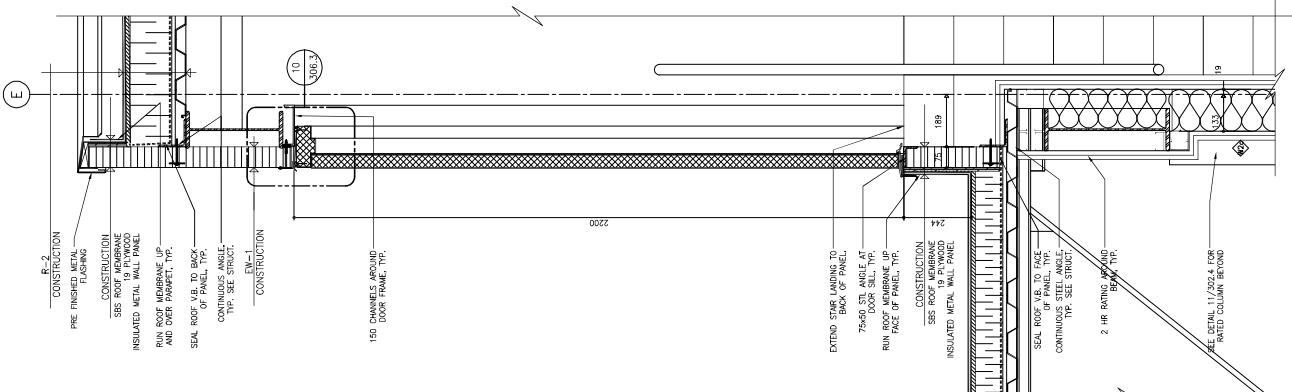
EXTERIOR WALL CONSTRUCTION  
 TYPE 1 - VERTICAL STRUCTURAL  
 STEEL CHANNEL FRAMING BY  
 STRUCTURAL

EXTERIOR WALL CONSTRUCTION  
 TYPE 2 - HORIZONTAL STRUCTURAL  
 INSULATED PANEL, 75mm  
 BACK & 400 U.C. TO FACE  
 (SEE DET FOR LOCATIONS OF FIRE  
 RATINGS)

FACTORY CAP GASKET  
 TO MATCH RIBBED PROFILE  
 VERTICAL JOINT GASKET  
 (SEE DET FOR LOCATIONS OF FIRE  
 RATINGS)

CONTINUOUS SILL SEALANT  
 WITH MARKING HEAD TO  
 HORIZONTAL PANEL JOINT

ROCK WOOL INSULATION  
 TYPICAL



The contents of this drawing including all layouts, schemes and configurations are copyrighted and are considered the intellectual property of Caspian Projects Inc. and are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without explicit written permission.

**numberTEN**  
**architectural group**  
 Winnipeg, MB Regina, SK Victoria, BC  
 204.942.0991 306.721.1501 250.360.7106  
 caspian • interior design • graphic design

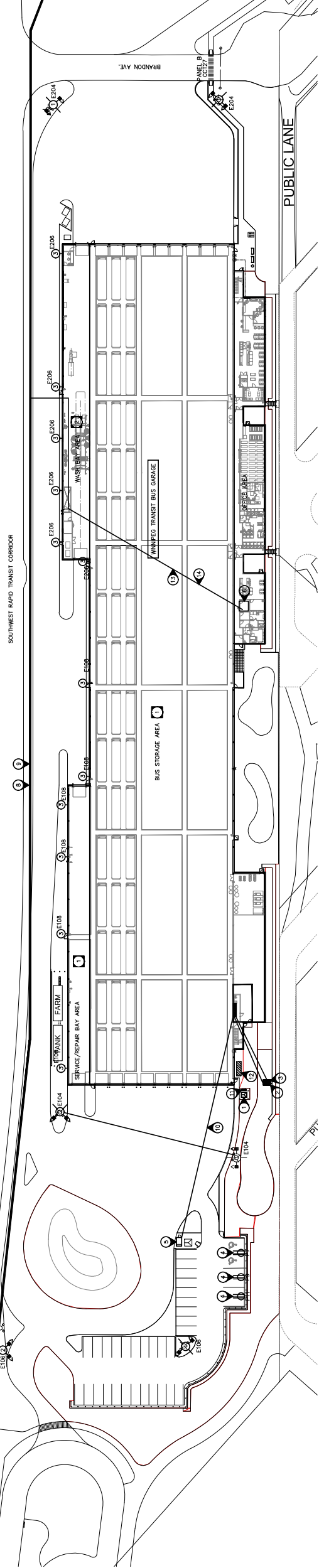
**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

**WALL SECTIONS**

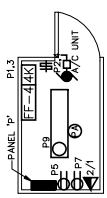
Project number	20120121
Date	DEC. 7, 2012
Drawn by	M.S., R.C.
Checked by	R.E., K.F.



REVISION NUMBER	DATE
1. ISSUED FOR CONSTRUCTION	2015-05-27
2. GENERAL REVISIONS	2015-04-09
3. GENERAL REVISIONS	2015-04-19
4. AS BUILT	2014-01-20



**1**  
 ELECTRICAL - SITE PLAN  
 SCALE: 1/8"=1'-0"



**2**  
 ELECTRICAL - BUS ASSIGNMENT KIOSK  
 SCALE: 1/8"=1'-0"

**SPECIFIC ELECTRICAL NOTES**

- APPROXIMATE LOCATION OF MANITOWA HYDRO TRANSFORMER. PROVIDE GROUND LOOPING AROUND TRANSFORMER PAD. PAY ATTENTION TO CONTRIBUTION CHARGES. P.D. BY MANITOBA HYDRO.
- MTS SERVICE FEEDSTAL COORDINATE LOCATION WITH MTS. PROVIDE 4" PVC C/W FALLS STRIKING FROM PRESSURE MAIN FROM 4" PAD C/W FALLS STRIKING FROM PRESSURE MAIN TO 60m (C/W BRANCHED AND WATER TIGHT BOLT U/G COVERS). FACILITATE WIRE REQUIREMENTS.
- SHAW CABLE FEEDSTAL COORDINATE LOCATION WITH SHAW. PROVIDE 4" PVC C/W FALLS STRIKING FROM PRESSURE MAIN FROM 4" PAD C/W FALLS STRIKING FROM PRESSURE MAIN TO 60m (C/W BRANCHED AND WATER TIGHT BOLT U/G COVERS). FACILITATE WIRE REQUIREMENTS.
- CAR RECEPTACLE C/W #6 C/C CONDUIT MOUNTED ON FENCE. (TYPICAL) CAR RECEPTACLES ARE TO BE PROGRAMMED TO LIMIT CURRENT DRAW TO BLOCK HEATER ONLY.
- SUS ASSIGNMENT KIOSK TO PROVIDE LIGHTING, POWER AND DATA TO BUS ASSIGNMENT KIOSK. DETAIL ALL ELECTRICAL WITH BUS ASSIGNMENT KIOSK PACKAGE. DETAIL ALL ELECTRICAL WITH BUS ASSIGNMENT KIOSK PACKAGE.
- APPROXIMATE LOCATION OF MAIN BUILDING DATA ROOM.
- WIRE ALL TANK FARM EQUIPMENT AS REQUIRED. REFER TO ELECTRICAL DRAWING SET FOR DETAILS.
- APPROXIMATE LOCATION OF EXISTING COMMUNICATIONS RACEWAY. PROVIDE CONNECTION TO 421 OSBORNE BUILDING VIA A FIBRE CONNECTION TO THE COMMUNICATIONS FEEDSTAL AT 421 OSBORNE BUILDING. PROVIDE CONNECTION TO 421 OSBORNE BUILDING VIA A FIBRE CONNECTION TO THE COMMUNICATIONS FEEDSTAL AT 421 OSBORNE BUILDING. PROVIDE CONNECTION TO 421 OSBORNE BUILDING VIA A FIBRE CONNECTION TO THE COMMUNICATIONS FEEDSTAL AT 421 OSBORNE BUILDING. PROVIDE CONNECTION TO 421 OSBORNE BUILDING VIA A FIBRE CONNECTION TO THE COMMUNICATIONS FEEDSTAL AT 421 OSBORNE BUILDING.
- APPROXIMATE LOCATION OF EXISTING COMMUNICATIONS RACEWAY. PROVIDE CONNECTION TO FIBRE NETWORK. WEST SIDE OF RACEWAY. PROVIDE CONNECTION TO FIBRE NETWORK. WEST SIDE OF RACEWAY. PROVIDE CONNECTION TO FIBRE NETWORK. WEST SIDE OF RACEWAY.
- PROVIDE CONNECTION TO FIBRE NETWORK. WEST END. REFER TO SPECIFIC ELECTRICAL NOTE #4.
- PROVIDE CONNECTION TO FIBRE NETWORK. WEST END. REFER TO SPECIFIC ELECTRICAL NOTE #4.

**SYMBOL SCHEDULE**

- Fluorescent luminaires, "B1-H" denotes panel circuit No. and switch.
- High light fluorescent luminaires.
- Wall mounted luminaires.
- Ceiling mounted luminaires, "X" denotes type.
- Front light.
- Single pole switches in multiple.
- Three way switch.
- Single pole switch c/w pilot light.
- Dimmer switch c/w separate neutral. Voltage to match circuit.
- Duplex receptacle.
- Duplex receptacle mounted above counter level. (See architectural elevations.)
- Duplex receptacle mounted on side of counter.
- Duplex receptacle weather proof.
- Ground fault duplex receptacle.
- Duplex receptacle on separate circuit. Provide laminated label indicating "30".
- 15A-20 amp split wire receptacle.
- Microcircuit outlet above counter. Verify location before installation.
- Duplex receptacle mounted at high level.
- Duplex receptacle c/w isolated ground. (Max 4 receptacles on a 15A-20 amp circuit.)
- 20A 1-dol duplex receptacle.
- Telephone outlet c/w cover plate. Run one(1) CAT6 cable in 3/4" conduit. "3/4" denotes no data and one(1) data.
- Combination volts/data outlet c/w cover plate. Run CAT6 cable in 3/4" conduit as specified on separate data room. "3/4" denotes two(2) data and one(1) voice.
- CATV outlet c/w cover plate. Run one(1) coax cable 3/4" conduit to accessible ceiling space or crawlspace.
- Frequent backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the telephone utility.
- Frequent backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the CATV utility.
- Meter. Refer to mechanical for exact location.
- Disconnect switch to suit application. By Dn. 16.
- Magnetic door hold open. To be fire alarm to release upon the condition.
- Junction box.
- Produced by Dn. 16.
- LED lighting/signage head fixture c/w battery backup. Model: EBS1-12-072-240359C-WHT. Needs to be LED pigtail signage sign c/w battery back-up. Model: ABB1-12-072-240359C-WHT. Needs to be LED pigtail signage sign c/w battery back-up. Model: ABB1-12-072-240359C-WHT. Needs to be LED pigtail signage sign c/w battery back-up. Model: ABB1-12-072-240359C-WHT.
- Combination wall sign/emergency double head fixture c/w battery back-up. Model: CS892-12-240359C-WHT.

**SYMBOL SCHEDULE**

- Electric force low heater c/w built in thermostat unless otherwise indicated. "T1-4" denotes type. "M" denotes walltype. See heating schedule for details.
- Electric heater. "C" denotes type, see electric heating schedule. "1000" denotes watts. Heater to be controlled by remote thermostat. Provide low voltage relay if required. Refer to mechanical for details.
- Publication to control buzzer by Dn. 16. (WP denotes weather proof).
- Chime c/w power, L.V. transformer relay, wiring, etc. by Dn. 16. (Verify location before installation).
- Time clock by Dn. 16.
- Ceiling mounted occupancy sensor. Sensor switch.
- Security system card access - rough-in only.
- Security system CCTV camera. RELOC. Connections c/w as necessary. Provide one(1) CAT6 cable to DVR located in Dispatch Office. Provide one(1) 18/2 to nearest available 120V circuit.
- Carbon monoxide detector. Tie into fire alarm system.
- Public Address system speaker. TDA F Series. Run speaker wiring back to stereo amplifier indicated on drawing S21.
- Public Address system horn. TDA SC Series. "MP" denotes weatherproof.

**SYMBOL SCHEDULE**

- Fluorescent luminaires, "B1-H" denotes panel circuit No. and switch.
- High light fluorescent luminaires.
- Wall mounted luminaires.
- Ceiling mounted luminaires, "X" denotes type.
- Front light.
- Single pole switches in multiple.
- Three way switch.
- Single pole switch c/w pilot light.
- Dimmer switch c/w separate neutral. Voltage to match circuit.
- Duplex receptacle.
- Duplex receptacle mounted above counter level. (See architectural elevations.)
- Duplex receptacle mounted on side of counter.
- Duplex receptacle weather proof.
- Ground fault duplex receptacle.
- Duplex receptacle on separate circuit. Provide laminated label indicating "30".
- 15A-20 amp split wire receptacle.
- Microcircuit outlet above counter. Verify location before installation.
- Duplex receptacle mounted at high level.
- Duplex receptacle c/w isolated ground. (Max 4 receptacles on a 15A-20 amp circuit.)
- 20A 1-dol duplex receptacle.
- Telephone outlet c/w cover plate. Run one(1) CAT6 cable in 3/4" conduit. "3/4" denotes no data and one(1) data.
- Combination volts/data outlet c/w cover plate. Run CAT6 cable in 3/4" conduit as specified on separate data room. "3/4" denotes two(2) data and one(1) voice.
- CATV outlet c/w cover plate. Run one(1) coax cable 3/4" conduit to accessible ceiling space or crawlspace.
- Frequent backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the telephone utility.
- Frequent backboard c/w power supply and #6 AWG green ground wire to building ground and c/w one(1) 4" entrance conduit as required by the CATV utility.
- Meter. Refer to mechanical for exact location.
- Disconnect switch to suit application. By Dn. 16.
- Magnetic door hold open. To be fire alarm to release upon the condition.
- Junction box.
- Produced by Dn. 16.
- LED lighting/signage head fixture c/w battery backup. Model: EBS1-12-072-240359C-WHT. Needs to be LED pigtail signage sign c/w battery back-up. Model: ABB1-12-072-240359C-WHT. Needs to be LED pigtail signage sign c/w battery back-up. Model: ABB1-12-072-240359C-WHT.
- Combination wall sign/emergency double head fixture c/w battery back-up. Model: CS892-12-240359C-WHT.

**SYMBOL SCHEDULE**

- Electric force low heater c/w built in thermostat unless otherwise indicated. "T1-4" denotes type. "M" denotes walltype. See heating schedule for details.
- Electric heater. "C" denotes type, see electric heating schedule. "1000" denotes watts. Heater to be controlled by remote thermostat. Provide low voltage relay if required. Refer to mechanical for details.
- Publication to control buzzer by Dn. 16. (WP denotes weather proof).
- Chime c/w power, L.V. transformer relay, wiring, etc. by Dn. 16. (Verify location before installation).
- Time clock by Dn. 16.
- Ceiling mounted occupancy sensor. Sensor switch.
- Security system card access - rough-in only.
- Security system CCTV camera. RELOC. Connections c/w as necessary. Provide one(1) CAT6 cable to DVR located in Dispatch Office. Provide one(1) 18/2 to nearest available 120V circuit.
- Carbon monoxide detector. Tie into fire alarm system.
- Public Address system speaker. TDA F Series. Run speaker wiring back to stereo amplifier indicated on drawing S21.
- Public Address system horn. TDA SC Series. "MP" denotes weatherproof.

**SYMBOL SCHEDULE**

- Electric force low heater c/w built in thermostat unless otherwise indicated. "T1-4" denotes type. "M" denotes walltype. See heating schedule for details.
- Electric heater. "C" denotes type, see electric heating schedule. "1000" denotes watts. Heater to be controlled by remote thermostat. Provide low voltage relay if required. Refer to mechanical for details.
- Publication to control buzzer by Dn. 16. (WP denotes weather proof).
- Chime c/w power, L.V. transformer relay, wiring, etc. by Dn. 16. (Verify location before installation).
- Time clock by Dn. 16.
- Ceiling mounted occupancy sensor. Sensor switch.
- Security system card access - rough-in only.
- Security system CCTV camera. RELOC. Connections c/w as necessary. Provide one(1) CAT6 cable to DVR located in Dispatch Office. Provide one(1) 18/2 to nearest available 120V circuit.
- Carbon monoxide detector. Tie into fire alarm system.
- Public Address system speaker. TDA F Series. Run speaker wiring back to stereo amplifier indicated on drawing S21.
- Public Address system horn. TDA SC Series. "MP" denotes weatherproof.

**SYMBOL SCHEDULE**

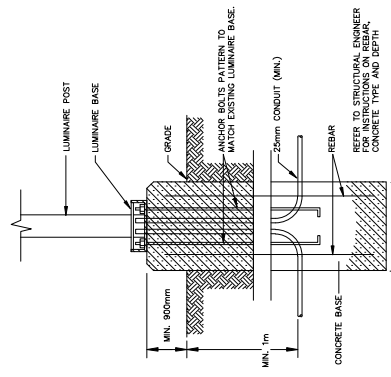
- Electric force low heater c/w built in thermostat unless otherwise indicated. "T1-4" denotes type. "M" denotes walltype. See heating schedule for details.
- Electric heater. "C" denotes type, see electric heating schedule. "1000" denotes watts. Heater to be controlled by remote thermostat. Provide low voltage relay if required. Refer to mechanical for details.
- Publication to control buzzer by Dn. 16. (WP denotes weather proof).
- Chime c/w power, L.V. transformer relay, wiring, etc. by Dn. 16. (Verify location before installation).
- Time clock by Dn. 16.
- Ceiling mounted occupancy sensor. Sensor switch.
- Security system card access - rough-in only.
- Security system CCTV camera. RELOC. Connections c/w as necessary. Provide one(1) CAT6 cable to DVR located in Dispatch Office. Provide one(1) 18/2 to nearest available 120V circuit.
- Carbon monoxide detector. Tie into fire alarm system.
- Public Address system speaker. TDA F Series. Run speaker wiring back to stereo amplifier indicated on drawing S21.
- Public Address system horn. TDA SC Series. "MP" denotes weatherproof.

**WASH BAY AND HAZARDOUS LOCATION ELECTRICAL NOTES**

- ALL WIRING IN THIS AREA TO COMPLY WITH C.E.C. WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1.
- ALL WIRING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1. ALL LIGHTING IN THIS AREA TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1.

**GENERAL ELECTRICAL NOTES:**

- PROVIDE 10% SPARE LAMPS FOR EACH LUMINAIRE LAMP TYPE AND A MINIMUM OF 10%.



**LUMINAIRE BASE DETAIL**  
 N.T.S.

NOTE: CONCRETE DIMENSIONS AND TYPE TO BE SPECIFIED BY STRUCTURAL ENGINEER AND BASED ON AVAILABLE 30% CONDITIONS.

**EMERGENCY LIGHTING AND SIGNAGE**

- CONDUCTORS SIZE TO MANUFACTURERS RECOMMENDATIONS. MAXIMUM 5% VOLTAGE DROP.
- WIRE AND CONNECT DC TO ALL COMPONENTS.
- PROVIDE 30 MINUTE CAPACITY UNDER FULL LOAD.
- EMERGENCY LIGHTING UPON LOSS OF NORMAL LIGHTING.
- WIRE TO LOCAL 347V LIGHTING CIRCUIT.

TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS
1	DOUBLE HEAD POST MOUNTED LUMINAIRE C/W 30" x 30" POLE	LITRONA K40-400M-SR4-SS-PS-INDS	2-40W MH
2	DOUBLE HEAD MOUNTED LUMINAIRE	K40-400M-SR4-SS-PS-INDS	2-40W MH
3	WALL MOUNTED LUMINAIRE MOUNTED AT 19'-0" A.F.S.	LITRONA MST-2-382-347-DBRND	53W LED

**AS-BUILT DRAWINGS**  
 ANY CHANGES TO THIS DRAWING MUST BE APPROVED BY THE ORIGINAL DESIGNER. THIS DRAWING IS THE PROPERTY OF CASPIAN PROJECTS INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CASPIAN PROJECTS INC.

The contents of this drawing including all layouts, schemes and configuration are copyrighted and are considered the intellectual property of Caspian Projects Inc. and are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the explicit written permission.

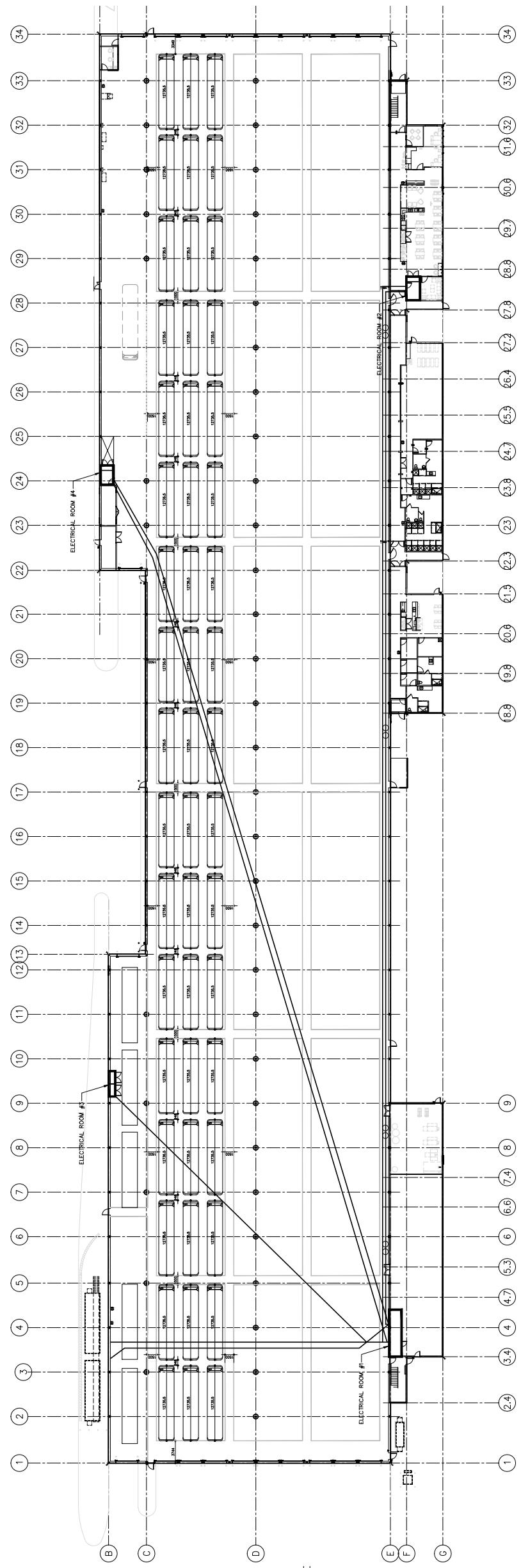
**NOVA 3 ENGINEERING LTD.**  
 CONSULTANT  
 204-103 FORBES BLVD.  
 WINNIPEG, MANITOBA  
 CANADA  
 TEL: (204) 842-1276  
 FAX: (204) 842-1276  
 THE DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD. NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR THE CONSEQUENCES OF ANY ERRORS OR OMISSIONS IN THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.

**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

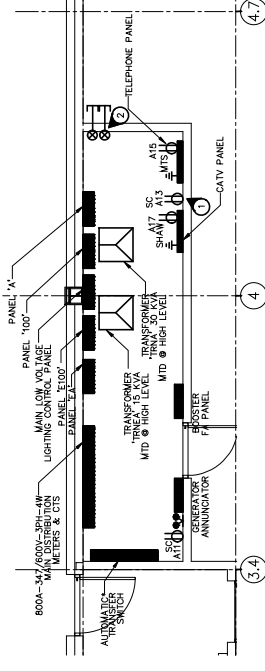
SHEET TITLE  
 ELECTRICAL - SITE PLAN

Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

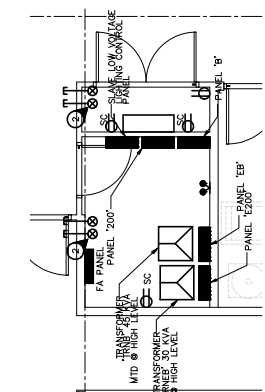
REVISION NUMBER	DATE
1. ISSUED FOR CONSTRUCTION	2015-05-27
2. GENERAL REVISIONS	2015-04-09
3. GENERAL REVISIONS	2015-04-19
4. AS BUILT	2014-02-20



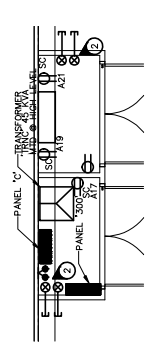
**1 MAIN FLOOR - POWER KEYPLAN**  
SCALE: 1/8"=1'-0"



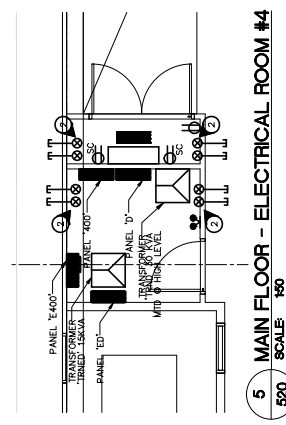
**2 MAIN FLOOR - ELECTRICAL ROOM #1**  
SCALE: 1/8"=1'-0"



**3 MAIN FLOOR - ELECTRICAL ROOM #2**  
SCALE: 1/8"=1'-0"



**4 MAIN FLOOR - ELECTRICAL ROOM #3**  
SCALE: 1/8"=1'-0"



**5 MAIN FLOOR - ELECTRICAL ROOM #4**  
SCALE: 1/8"=1'-0"

TYPE	IMTS	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	NOTES
G	2000	247V-1PH	BASEBOARD	CHROMALOX	BRN420W1	1
FF-2	2000	247V-1PH	FORCE FLOW	CHROMALOX	RYVAD2051	2
FF-4	4000	247V-1PH	FORCE FLOW	CHROMALOX	RYVAD2051	2

**HEATING SCHEDULE**

SPECIFIC HEATING NOTES:  
1. BUILT-IN THERMOSTAT OR WIRED TO REMOTE THERMOSTAT AS SHOWN ON DRAWINGS.  
2. RECESSED UNLESS OTHERWISE INDICATED. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED.  
3. ALL VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.  
4. APPROVED EQUAL DRAUGHT.

**SPECIFIC ELECTRICAL NOTES**

- TELEPHONE PANEL, 6x8 3/4" FINISHED BACKWARDS MOUNTED BEHIND RACK (CONSOLE LOCATION). PROVIDE A 4" CLEARANCE FROM THE BACK OF THE RACK TO THE WALL. PROVIDE A 4" CLEARANCE FROM THE FRONT OF THE RACK TO THE WALL. PROVIDE A 4" CLEARANCE FROM THE TOP OF THE RACK TO THE CEILING. PROVIDE A 4" CLEARANCE FROM THE BOTTOM OF THE RACK TO THE FLOOR. PROVIDE A 4" CLEARANCE FROM THE SIDE OF THE RACK TO THE WALL. PROVIDE A 4" CLEARANCE FROM THE SIDE OF THE RACK TO THE CEILING.
- PROVIDE TWO(2) 4" CONDUIT STUBS OUT FROM ALL THE EQUIPMENT TO BE INSTALLED. PROVIDE TWO(2) 4" CONDUIT STUBS OUT FROM ALL THE EQUIPMENT TO BE INSTALLED. PROVIDE TWO(2) 4" CONDUIT STUBS OUT FROM ALL THE EQUIPMENT TO BE INSTALLED. PROVIDE TWO(2) 4" CONDUIT STUBS OUT FROM ALL THE EQUIPMENT TO BE INSTALLED.
- SUPPLY, INSTALL, WIRE AND CONNECT NOVA UPS SYSTEM FOR IT EQUIPMENT. UPS TO BE C/W BYPASS SWITCH.
- SUPPLY, INSTALL, WIRE, AND CONNECT NOVA UPS SYSTEM FOR IT EQUIPMENT. UPS TO BE C/W BYPASS SWITCH.
- ALL RECEPTACLES IN THIS AREA TO BE FED FROM UPS.

**GENERAL ELECTRICAL NOTES**

- WIRE AND CONNECT ALL LINE VOLTAGE THERMOSTATS FOR ELECTRIC HEAT.
- WIRE AND CONNECT ALL COMMUNICATIONS AND POWER FOR METASTS BMS.

NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES
HRV-1	HEAT RECOVERY VENTILATOR	ROOF - GL D410	600V-3PH	36.0A	50A-3P	#0	VFD	1.5,7
HRV-2	HEAT RECOVERY VENTILATOR	ROOF - GL D425	600V-3PH	36.0A	50A-3P	#0	VFD	1.5,7
HRV-3	HEAT RECOVERY VENTILATOR	ROOF - GL D423	600V-3PH	6.0A	15A-3P	#2	VFD	1.5,7
HRV-4	HEAT RECOVERY VENTILATOR	ROOF - GL D427	600V-3PH	24.0A	40A-3P	#0	VFD	1.5,7
HRV-5	HEAT RECOVERY VENTILATOR	ROOF - GL D431	600V-3PH	13.0A	20A-3P	#2	VFD	1.5,7
HRV-6	HEAT RECOVERY VENTILATOR	ROOF - GL D42	600V-3PH	13.0A	20A-3P	#2	VFD	1.5,7
HRV-7	HEAT RECOVERY VENTILATOR	ROOF - GL F419.8	208V-3PH	9.2MCA	15A-2P	#2	MAGNETIC	1.2,5
HRV-8	HEAT RECOVERY VENTILATOR	ROOF - GL F420.6	208V-3PH	10.7MCA	15A-2P	#2	MAGNETIC	1.2,5
HRV-9	HEAT RECOVERY VENTILATOR	ROOF - GL D429	208V-3PH	6.0MCA	15A-2P	#2	MAGNETIC	1.2,5
RTU-1	ROOFTOP UNIT	ROOF - F420.6	208V-1PH	17MCA	20A-2P	#2	MAGNETIC	1.2,4
RTU-2	ROOFTOP UNIT	ROOF - E428	600V-3PH	9MCA	15A-3P	#2	MAGNETIC	1.2,4
RTU-3	ROOFTOP UNIT	ROOF - D418	600V-3PH	34.5MCA	40A-3P	#0	MAGNETIC	1.2,4
MUA-1A	MAKE-UP AIR UNIT	ROOF - D418	600V-3PH	34.5MCA	40A-3P	#0	MAGNETIC	1.2,4
MUA-2	MAKE-UP AIR UNIT	ROOF - C428	600V-3PH	9.0MCA	15A-3P	#2	MAGNETIC	1.2
MUA-3	MAKE-UP AIR UNIT	ROOF - C428	600V-3PH	9.0MCA	15A-3P	#2	MAGNETIC	1.2
MUA-4	MAKE-UP AIR UNIT	ROOF - C428	600V-3PH	9.0MCA	15A-3P	#2	MAGNETIC	1.2
H-1	HUMIDIFIER	ROOF - E430	600V-3PH	7.5kW	15A-3P	#2	MAGNETIC	1.2
B-1	GAS BOILER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
B-2	GAS BOILER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
B-3	GAS BOILER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
EF-1	EXHAUST FAN	ROOF - D42	600V-3PH	12.0A	15A-2P	#2	MANUAL	1.4
EF-2	EXHAUST FAN	ROOF - D42	600V-3PH	12.0A	15A-2P	#2	MANUAL	1.4
EF-3	EXHAUST FAN	ROOF - B41	120V-1PH	0.5HP	15A-3P	#2	MAGNETIC	1.2
EF-4	EXHAUST FAN	ROOF - B42	600V-3PH	1HP	15A-3P	#2	MAGNETIC	1.2
EF-5	EXHAUST FAN	ROOF - B43	600V-3PH	0.75HP	15A-3P	#2	MAGNETIC	1.2
EF-6	EXHAUST FAN	ROOF - B44	600V-3PH	0.75HP	15A-3P	#2	MAGNETIC	1.2
EF-7	EXHAUST FAN	ELECTRICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MAGNETIC	1.2
REF-1	TALPEX EXHAUST FAN	REPAIR SHOP	600V-3PH	5.5HP	20A-3P	#2	PACKAGED	1.2
HWT-1	GAS HOT WATER TANK	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
HWT-2	GAS HOT WATER TANK	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
HWT-3	GAS HOT WATER TANK	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
U-1	GAS UNIT HEATER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
U-2	GAS UNIT HEATER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
U-3	GAS UNIT HEATER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
U-4 TO 23	UNREHEATED COILS	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
AC-22	AIR COMPRESSOR	MECHANICAL ROOM	600V-3PH	25HP	50A-3P	#0	MANUAL	1.3
ACMP-1	AIR COMPRESSOR	MECHANICAL ROOM	600V-3PH	25HP	50A-3P	#0	MANUAL	1.3
ACMP-2	AIR COMPRESSOR	MECHANICAL ROOM	600V-3PH	25HP	50A-3P	#0	MANUAL	1.3
PHMP-1A/1B	PRIMARY HEATING PUMPS	MECHANICAL ROOM	600V-3PH	15HP	40A-3P	#0	MAGNETIC	1.2,4
DHW-1	DOMESTIC HOT WATER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
DHW-2	DOMESTIC HOT WATER	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#2	MANUAL	1.3
BRP-1	BOILER INJECTION PUMP	MECHANICAL ROOM	208V-3PH	27A	30A-3P	#0	MANUAL	1.3
BRP-2	BOILER INJECTION PUMP	MECHANICAL ROOM	208V-3PH	27A	30A-3P	#0	MANUAL	1.3
BRP-3	BOILER INJECTION PUMP	MECHANICAL ROOM	208V-3PH	27A	30A-3P	#0	MANUAL	1.3
EV-1	EVAPORATOR	DATA ROOM - GL F420.6	120V-1PH	1.0A	15A-1P	#2	PACKAGED	1.2
EV-2	EVAPORATOR	DATA ROOM - GL F420.6	120V-1PH	1.0A	15A-1P	#2	PACKAGED	1.2
EV-3	EVAPORATOR	DATA ROOM - GL F420.6	120V-1PH	1.0A	15A-1P	#2	PACKAGED	1.2
EV-4	EVAPORATOR	DATA ROOM - GL F420.6	120V-1PH	1.0A	15A-1P	#2	PACKAGED	1.2
CU-1	CONDENSING UNIT	GARAGE - GL F420.6	208V-1PH	2MCA	40A-2P	#0	MAGNETIC	1.2
CU-2	CONDENSING UNIT	GARAGE - GL F420.6	208V-1PH	2MCA	40A-2P	#0	MAGNETIC	1.2
CU-3	CONDENSING UNIT	GARAGE - GL F420.6	208V-1PH	2MCA	40A-2P	#0	MAGNETIC	1.2
CU-4	CONDENSING UNIT	208V-1PH	2MCA	40A-2P	#0	MAGNETIC	1.2	

1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL. REFER TO MECHANICAL. REFER TO MECHANICAL.  
2. MAGNETIC STARTER BY DIV. 16.  
3. MECHANICAL COMPONENT ON GENERATOR POWER.  
4. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
5. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
6. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
7. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
8. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
9. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
10. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
11. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
12. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
13. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
14. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
15. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
16. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
17. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
18. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
19. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
20. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
21. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
22. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
23. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
24. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
25. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
26. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
27. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
28. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
29. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
30. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
31. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
32. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
33. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.  
34. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.

**AS-BUILT DRAWINGS**  
THESE DRAWINGS ARE THE PROPERTY OF NOVA 3 ENGINEERING LTD. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF NOVA 3 ENGINEERING LTD.

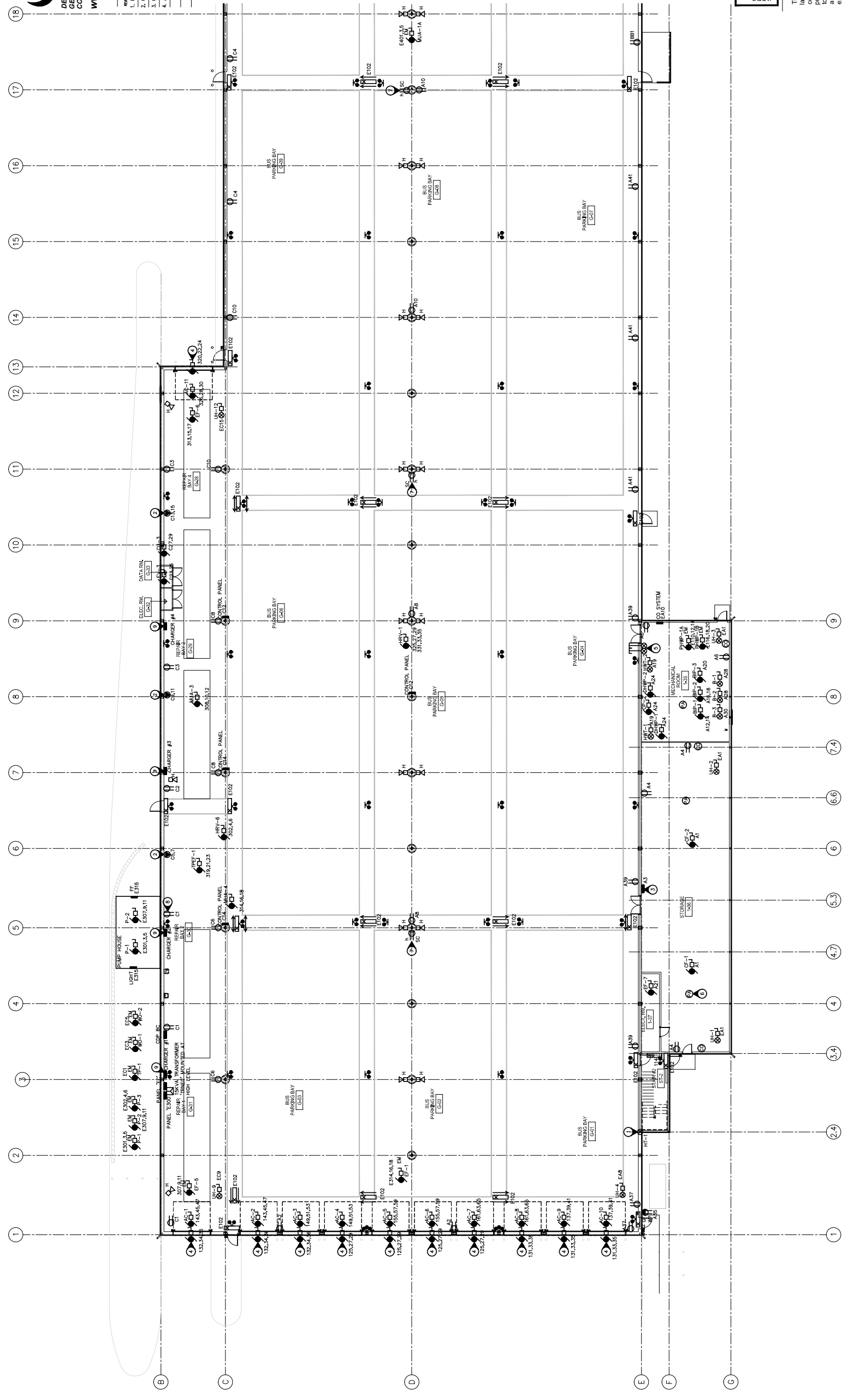
The contents of this drawing including all layouts, schemes and configuration are copyrighted and are considered the intellectual property of Caspian Projects Inc. and are not to be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the explicit written permission.

**NOVA 3 ENGINEERING LTD.**  
CONSULTING ENGINEERS  
204-120 1ST STREET  
WINNIPEG, MANITOBA  
CANADA R2S 2S2  
TEL: (204) 842-1278  
FAX: (204) 842-1276  
WWW.NOVA3.COM  
THE DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD. NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.

**TRANSIT BUS PARKING & SERVICE GARAGE**  
600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE  
ELECTRICAL - OVERALL POWER LAYOUT  
Project number: 2012021  
Date: APRIL 19, 2013  
Drawn by: KC  
Checked by: TTM

REVISION NUMBER	DATE
1. ISSUED FOR CONSTRUCTION	2015-02-27
2. GENERAL REVISIONS	2015-04-09
3. GENERAL REVISIONS	2015-04-19
4. AS BUILT	2014-07-26



**1 MAIN FLOOR - POWER AND SYSTEMS LAYOUT (SOUTH)**  
 SCALE 1:50

**SPECIFIC ELECTRICAL NOTES**

1. PROVIDE 120V POWER SUPPLY FOR CEILING FAN CONTROL PANEL.
2. WIRE AND CONNECT GARAGE DOOR OPERATOR AND ALL RELATED CONTROLS AS REQUIRED. SOURCE REFER TO RPP (PAGE 14) FOR CONTROL AND FEATURE REQUIREMENTS.
3. MECHANICAL ELECTRICAL AND CLAR ROOMS FOR FUTURE ADDITIONS 2" W/ PULLSTRING AND 12 AWG TRACER WIRE.
4. FLUSH MOUNTED TO UNDERSIDE OF JOIST (TYPICAL).
5. SC RECEPTACLE MOUNTED AT HIGH LEVEL FOR WFI. FEED FROM NEAREST EMERGENCY PANEL.
6. SC RECEPTACLE TO BE RED FROM NEAREST UPS.
7. WIRE AND CONNECT BUS CHARGER AS REQUIRED. CONFIRM EXACT LOCATION AND REQUIREMENTS ON SITE.

**GENERAL ELECTRICAL NOTES**

1. PROVIDE A DEDICATED NEUTRAL FOR ALL ISOLATED GROUND RECEPTACLES.
2. PROVIDE 100mm CONCRETE HOUSING PANS FOR ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT AND BRIDGEWELDS.
3. ALL RECEPTACLES WITHIN GARAGE AREA ARE TO BE MOUNTED AT 4'-0" A.F.F.

**AS-BUILT DRAWINGS**

THE CONTENTS OF THIS DRAWING INCLUDING ALL LAYOUTS, SCHEMES AND CONFIGURATION ARE COPYRIGHTED AND ARE CONSIDERED THE INTELLECTUAL PROPERTY OF CASPIAN PROJECTS INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CASPIAN PROJECTS INC.

**NOVA 3 ENGINEERING LTD.**  
 CONSULTANT  
 204-123 FORT STREET  
 WINNIPEG, MANITOBA  
 TEL: (204) 942-1276  
 FAX: (204) 942-1278  
 THE DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD. NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AUTHORITIES.

**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE	
ELECTRICAL - POWER AND SYSTEMS LAYOUT SOUTH	
Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM







DESIGN/BUILDERS  
GENERAL CONTRACTORS  
CONSTRUCTION MANAGERS

www.caspianconstruction.com

REVISION / DATE	DATE
1. ISSUED FOR CONSTRUCTION	2015-05-27
2. GENERAL REVISIONS	2015-04-09
3. GENERAL REVISIONS	2015-04-19
4. AS BUILT	2014-07-20

PANEL MOUNTING LOCATION	SURFACE ELECTRICAL ROOM	VOLTAGE MAIN BUS	347/600V-3PH-4W	REMARKS	DESCRIPTION	
A0P-1	50P	2	1	1	TRANSFORMER TRIP	
#1 WIRE	121	1	1	1	#1 WIRE	
OVERHEAD DOOR	0.5HP	15	7	9	HRV-3	
VACUUM	15	13	14	40	HRV-4	
#10 WIRE	15	15	16	16	#10 WIRE	
HRV-1	40	15	20	15	HRV-5	
#1 WIRE	21	22	24	24	#1 WIRE	
MUA-2	15	26	26	125	HRV-2	
A0P-2	25P	50	31	32	15	SPACE
#10 WIRE	15	15	14	15	SPACE	
SPACE	15	17	38	15	EF-4	
SPACE	15	41	42	42	SPACE	
SPACE	15	43	44	15	AC-21/OND	
SPACE	15	45	46	46	SPACE	
SPACE	15	47	48	48	SPACE	
SPACE	15	49	50	50	SPACE	
SPACE	15	51	52	52	SPACE	
SPACE	15	53	54	54	SPACE	
SPACE	15	55	56	56	SPACE	
SPACE	15	57	58	58	SPACE	
SPACE	15	59	60	60	SPACE	
SPACE	15	61	62	62	SPACE	
SPACE	15	63	64	64	SPACE	
SPACE	15	65	66	66	SPACE	

PANEL MOUNTING LOCATION	SURFACE ELECTRICAL ROOM	VOLTAGE MAIN BUS	120/208V-3PH-4W	REMARKS	DESCRIPTION
RECEPTACLES	15	1	1	10	SPARE
CU-1	40	1	1	10	DRINKING FOUNTAIN
#1 WIRE	15	6	6	15	SC RECEPTACLE
SPACE	15	7	7	15	SC RECEPTACLE
FP-4	15	10	10	15	SC RECEPTACLE
FP-5	15	11	11	20	SC RECEPTACLE
SPACE	15	12	12	20	SC RECEPTACLE
SPACE	15	13	13	20	SC RECEPTACLE
SPACE	15	14	14	20	SC RECEPTACLE
SPACE	15	15	15	20	SC RECEPTACLE
SPACE	15	16	16	20	SC RECEPTACLE
SPACE	15	17	17	20	SC RECEPTACLE
SPACE	15	18	18	20	SC RECEPTACLE
SPACE	15	19	19	20	SC RECEPTACLE
SPACE	15	20	20	20	SC RECEPTACLE
SPACE	15	21	21	20	SC RECEPTACLE
SPACE	15	22	22	20	SC RECEPTACLE
SPACE	15	23	23	20	SC RECEPTACLE
SPACE	15	24	24	20	SC RECEPTACLE
SPACE	15	25	25	20	SC RECEPTACLE
SPACE	15	26	26	20	SC RECEPTACLE
SPACE	15	27	27	20	SC RECEPTACLE
SPACE	15	28	28	20	SC RECEPTACLE
SPACE	15	29	29	20	SC RECEPTACLE
SPACE	15	30	30	20	SC RECEPTACLE
SPACE	15	31	31	20	SC RECEPTACLE
SPACE	15	32	32	20	SC RECEPTACLE
SPACE	15	33	33	20	SC RECEPTACLE
SPACE	15	34	34	20	SC RECEPTACLE
SPACE	15	35	35	20	SC RECEPTACLE
SPACE	15	36	36	20	SC RECEPTACLE
SPACE	15	37	37	20	SC RECEPTACLE
SPACE	15	38	38	20	SC RECEPTACLE
SPACE	15	39	39	20	SC RECEPTACLE
SPACE	15	40	40	20	SC RECEPTACLE
SPACE	15	41	41	20	SC RECEPTACLE
SPACE	15	42	42	20	SC RECEPTACLE

POWER = 12.8KW  
15.1KW  
AC = 4.0KW  
25.8KW  
8.15A

PANEL MOUNTING LOCATION	SURFACE ELECTRICAL ROOM	VOLTAGE MAIN BUS	347/600V-3PH-4W	REMARKS	DESCRIPTION
RECEPTACLES	15	1	1	20	HRV-6
SPACE	15	3	3	4	SPACE
SPACE	15	5	5	6	SPACE
SPACE	15	6	6	6	SPACE
SPACE	15	7	7	8	SPACE
SPACE	15	8	8	15	MUA-3
SPACE	15	9	9	10	SPACE
SPACE	15	10	10	10	SPACE
SPACE	15	11	11	12	SPACE
SPACE	15	12	12	12	SPACE
SPACE	15	13	13	14	SPACE
SPACE	15	14	14	15	SPACE
SPACE	15	15	15	16	SPACE
SPACE	15	16	16	16	SPACE
SPACE	15	17	17	18	SPACE
SPACE	15	18	18	18	SPACE
SPACE	15	19	19	20	SPACE
SPACE	15	20	20	20	SPACE
SPACE	15	21	21	22	SPACE
SPACE	15	22	22	24	SPACE
SPACE	15	23	23	24	SPACE
SPACE	15	24	24	24	SPACE
SPACE	15	25	25	24	SPACE
SPACE	15	26	26	24	SPACE
SPACE	15	27	27	28	SPACE
SPACE	15	28	28	28	SPACE
SPACE	15	29	29	30	SPACE
SPACE	15	30	30	30	SPACE
SPACE	15	31	31	32	SPACE
SPACE	15	32	32	34	SPACE
SPACE	15	33	33	34	SPACE
SPACE	15	34	34	34	SPACE
SPACE	15	35	35	36	SPACE
SPACE	15	36	36	36	SPACE
SPACE	15	37	37	38	SPACE
SPACE	15	38	38	60	TRANSFORMER TRIP
SPACE	15	39	39	60	TRANSFORMER TRIP
SPACE	15	40	40	60	TRANSFORMER TRIP
SPACE	15	41	41	60	TRANSFORMER TRIP
SPACE	15	42	42	60	TRANSFORMER TRIP
SPACE	15	43	43	60	TRANSFORMER TRIP
SPACE	15	44	44	60	TRANSFORMER TRIP
SPACE	15	45	45	60	TRANSFORMER TRIP

POWER = 12.8KW  
15.1KW  
AC = 4.0KW  
25.8KW  
8.15A

PANEL MOUNTING LOCATION	SURFACE ELECTRICAL ROOM	VOLTAGE MAIN BUS	120/208V-3PH-4W	REMARKS	DESCRIPTION
RECEPTACLES	15	1	1	15	RECEPTACLES
WELDER	50	5	5	15	RECEPTACLES
#1 WIRE	15	6	6	15	RECEPTACLES
WELDER	50	9	9	15	RECEPTACLES
#1 WIRE	15	10	10	15	SPACE
WELDER	50	11	11	15	CONTROL COT HRV1/ALU3
#1 WIRE	15	12	12	15	CONTROL COT HRV1/ALU4
SPACE	15	13	13	15	SPACE
SPACE	15	14	14	15	SPACE
SPACE	15	15	15	15	SPACE
SPACE	15	16	16	15	SPACE
SPACE	15	17	17	16	SPACE
SPACE	15	18	18	16	SPACE
SPACE	15	19	19	20	SPACE
SPACE	15	20	20	20	SPACE
SPACE	15	21	21	20	SPACE
SPACE	15	22	22	20	SPACE
SPACE	15	23	23	20	SPACE
SPACE	15	24	24	20	SPACE
SPACE	15	25	25	20	SPACE
SPACE	15	26	26	20	SPACE
SPACE	15	27	27	20	SPACE
SPACE	15	28	28	20	SPACE
SPACE	15	29	29	20	SPACE
SPACE	15	30	30	20	SPACE
SPACE	15	31	31	20	SPACE
SPACE	15	32	32	20	SPACE
SPACE	15	33	33	20	SPACE
SPACE	15	34	34	20	SPACE
SPACE	15	35	35	20	SPACE
SPACE	15	36	36	20	SPACE
SPACE	15	37	37	20	SPACE
SPACE	15	38	38	20	SPACE
SPACE	15	39	39	20	SPACE
SPACE	15	40	40	20	SPACE
SPACE	15	41	41	20	SPACE
SPACE	15	42	42	20	SPACE

POWER = 12.8KW  
15.1KW  
AC = 4.0KW  
25.8KW  
8.15A

PANEL MOUNTING LOCATION	SURFACE ELECTRICAL ROOM	VOLTAGE MAIN BUS	347/600V-3PH-4W	REMARKS	DESCRIPTION
RECEPTACLES	15	1	1	10	BASEBOARD HEATER
SPACE	15	2	2	10	SPACE
SPACE	15	3	3	10	SPACE
SPACE	15	4	4	10	SPACE
SPACE	15	5	5	10	SPACE
SPACE	15	6	6	10	SPACE
SPACE	15	7	7	10	SPACE
SPACE	15	8	8	10	SPACE
SPACE	15	9	9	10	SPACE
SPACE	15	10	10	10	SPACE
SPACE	15	11	11	10	SPACE
SPACE	15	12	12	10	SPACE
SPACE	15	13	13	10	SPACE
SPACE	15	14	14	10	SPACE
SPACE	15	15	15	10	SPACE
SPACE	15	16	16	10	SPACE
SPACE	15	17	17	10	SPACE
SPACE	15	18	18	10	SPACE
SPACE	15	19	19	10	SPACE
SPACE	15	20	20	10	SPACE
SPACE	15	21	21	10	SPACE
SPACE	15	22	22	10	SPACE
SPACE	15	23	23	10	SPACE
SPACE	15	24	24	10	SPACE
SPACE	15	25	25	10	SPACE
SPACE	15	26	26	10	SPACE
SPACE	15	27	27	10	SPACE
SPACE	15	28	28	10	SPACE
SPACE	15	29	29	10	SPACE
SPACE	15	30	30	10	SPACE
SPACE	15	31	31	10	SPACE
SPACE	15	32	32	10	SPACE
SPACE	15	33	33	10	SPACE
SPACE	15	34	34	10	SPACE
SPACE	15	35	35	10	SPACE
SPACE	15	36	36	10	SPACE
SPACE	15	37	37	10	SPACE
SPACE	15	38	38	10	SPACE
SPACE	15	39	39	10	SPACE
SPACE	15	40	40	10	SPACE
SPACE	15	41	41	10	SPACE
SPACE	15	42	42	10	SPACE
SPACE	15	43	43	10	SPACE
SPACE	15	44	44	10	SPACE
SPACE	15	45	45	10	SPACE
SPACE	15	46	46	10	SPACE
SPACE	15	47	47	10	SPACE
SPACE	15	48	48	10	SPACE
SPACE	15	49	49	10	SPACE
SPACE	15	50	50	10	SPACE
SPACE	15	51	51	10	SPACE
SPACE	15	52	52	10	SPACE
SPACE	15	53	53	10	SPACE
SPACE	15	54	54	10	SPACE
SPACE	15	55	55	10	SPACE
SPACE	15	56	56	10	SPACE
SPACE	15	57	57	10	SPACE
SPACE	15	58	58	10	SPACE
SPACE	15	59	59	10	SPACE
SPACE	15	60	60	10	SPACE
SPACE	15	61	61	10	SPACE
SPACE	15	62	62	10	SPACE
SPACE	15	63	63	10	SPACE
SPACE	15	64	64	10	SPACE
SPACE	15	65	65	10	SPACE
SPACE	15	66	66		

REVISION NUMBER	DATE
1. ISSUED FOR CONSTRUCTION	2015-05-27
2. GENERAL REVISIONS	2015-04-09
3. GENERAL REVISIONS	2015-04-19
4. AS BUILT	2014-09-26

PANEL	TE400'	VOLTAGE	347/600V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	ELECTRICAL ROOM	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
MUA-1A	#8 WIRE	15	1
		15	2
		15	3
		15	4
		15	5
		15	6
MUA-1B	#8 WIRE	15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24
		15	25
		15	26
		15	27
		15	28
		15	29
		15	30
		15	31
		15	32
		15	33
		15	34
		15	35
		15	36
		15	37
		15	38
		15	39
		15	40
		15	41
		15	42

MECH = 78W  
 BSA

PANEL	ED	VOLTAGE	120/208V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	REPAIR BAY - GL B&1	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
UH-15 / UH-15		15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24

PANEL	ES00'	VOLTAGE	347/600V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	REPAIR BAY - GL B&1	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
P-1	3HP	15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24
		15	25
		15	26
		15	27
		15	28
		15	29
		15	30
		15	31
		15	32
		15	33
		15	34
		15	35
		15	36
		15	37
		15	38
		15	39
		15	40
		15	41
		15	42

MECH = 74.5W  
 BSA

PANEL	EC	VOLTAGE	120/208V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	REPAIR BAY - GL B&1	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
SPARE		15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24

PANEL	ES00'	VOLTAGE	347/600V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	ELECTRICAL ROOM	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
LIGHTING (ZONE 3)	2.8KW	15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24
		15	25
		15	26
		15	27
		15	28
		15	29
		15	30
		15	31
		15	32
		15	33
		15	34
		15	35
		15	36
		15	37
		15	38
		15	39
		15	40
		15	41
		15	42

POWER = 17.8KW  
 RTU = 22W

PANEL	EB'	VOLTAGE	120/208V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	ELECTRICAL ROOM	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
SC RECEPTACLE		15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24
		15	25
		15	26
		15	27
		15	28
		15	29
		15	30
		15	31
		15	32
		15	33
		15	34
		15	35
		15	36
		15	37
		15	38
		15	39
		15	40
		15	41
		15	42

PANEL	ES00'	VOLTAGE	347/600V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	ELECTRICAL ROOM	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
LIGHTING (ZONE 1)	0.7KW	15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24
		15	25
		15	26
		15	27
		15	28
		15	29
		15	30
		15	31
		15	32
		15	33
		15	34
		15	35
		15	36
		15	37
		15	38
		15	39
		15	40
		15	41
		15	42

LIGHTING = 20W

PANEL	EA'	VOLTAGE	120/208V-3PH-4W
MOUNTING	SURFACE	MAIN BUS	100A
LOCATION	ELECTRICAL ROOM	REMARKS	GENERATOR POWER
DESCRIPTION	DESCRIPTION	BRKT	CIRCUIT
UH-1 / UH-2 / UH-3		15	1
		15	2
		15	3
		15	4
		15	5
		15	6
		15	7
		15	8
		15	9
		15	10
		15	11
		15	12
		15	13
		15	14
		15	15
		15	16
		15	17
		15	18
		15	19
		15	20
		15	21
		15	22
		15	23
		15	24

**AS-BUILT DRAWINGS**  
 CONTRACTOR TO VERIFY ALL INFORMATION AND AS-BUILT INFORMATION  
 SHALL BE ACCURATE AND COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR  
 THE ACCURACY OF ALL INFORMATION AND AS-BUILT INFORMATION.  
 NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS  
 WHICH MAY OCCUR AS A RESULT OF THIS PROJECT.

The contents of this drawing including all layouts, schemes and configuration are copyrighted and are considered the intellectual property of Caspian Projects Inc. and are not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Caspian Projects Inc.

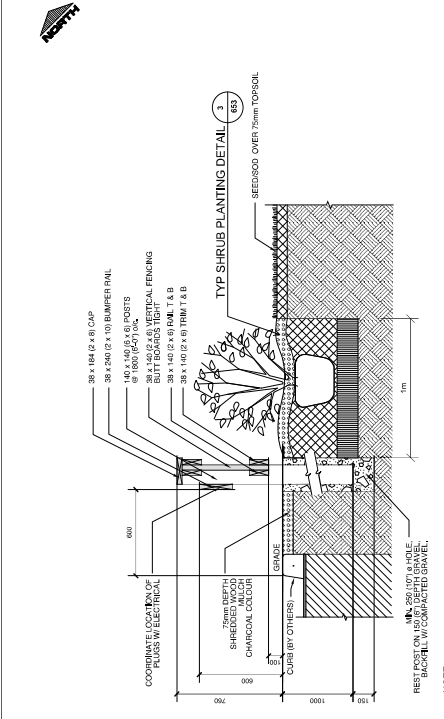
**NOVA 3 ENGINEERING LTD.**  
 CONSULTING ENGINEERS  
 204-123 FORT STREET  
 WINNIPEG, MANITOBA  
 CANADA R2L 2G4  
 TEL: (204) 842-1278  
 FAX: (204) 842-1276  
 WWW.NOVA3ENGINEERING.COM  
 THE DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD.  
 NOVA 3 ENGINEERING LTD. IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS  
 WHICH MAY OCCUR AS A RESULT OF THIS PROJECT.

**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave, Winnipeg, Manitoba

SHEET TITLE  
 ELECTRICAL - PANEL SCHEDULES

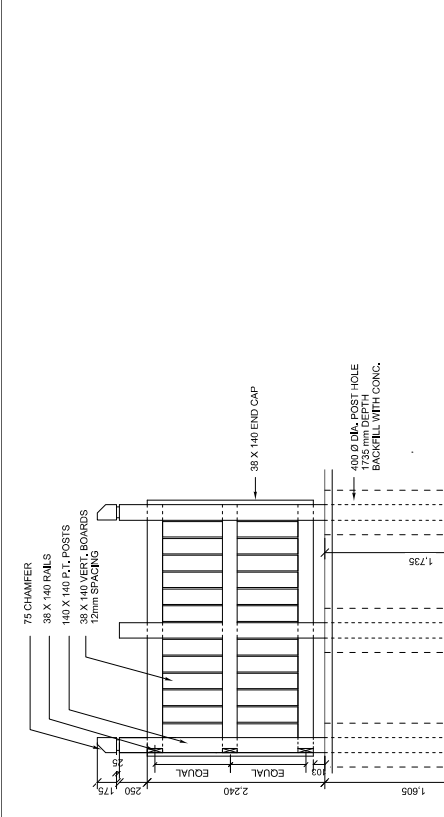
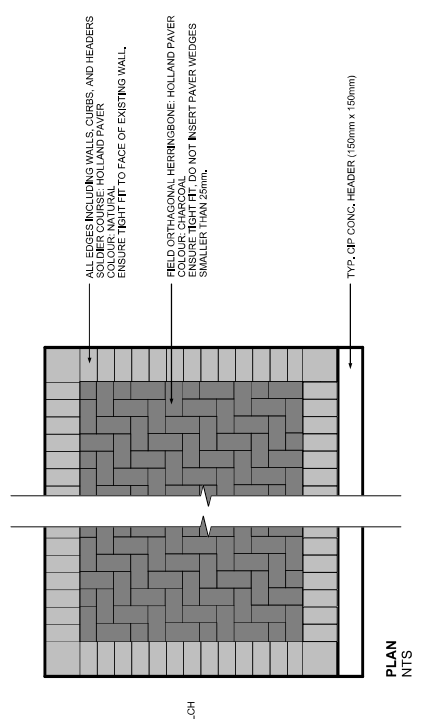
Project number	2012021
Date	APRIL 19, 2013
Drawn by	KC
Checked by	TTM

ISSUED FOR	DATE
Issued for 60% Review	JUN. 18 / 2012
Issued for 80% Review	OCT. 5 / 2012
Issued for 85% Review	NOV. 6 / 2012
Issued for 100% Review	DEC. 7 / 2012
Issued for Construction	FEB. 27 / 2013



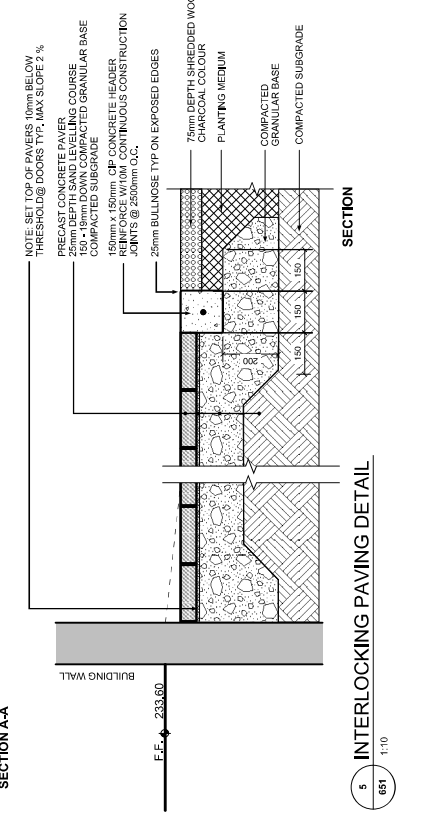
**2 760 (30") HT. BUMPER FENCE & HEDGE DETAIL**  
 1:20

NOTE: All materials to be approved by the City of Winnipeg. Wood for fence to be pressure treated pine, brown color.

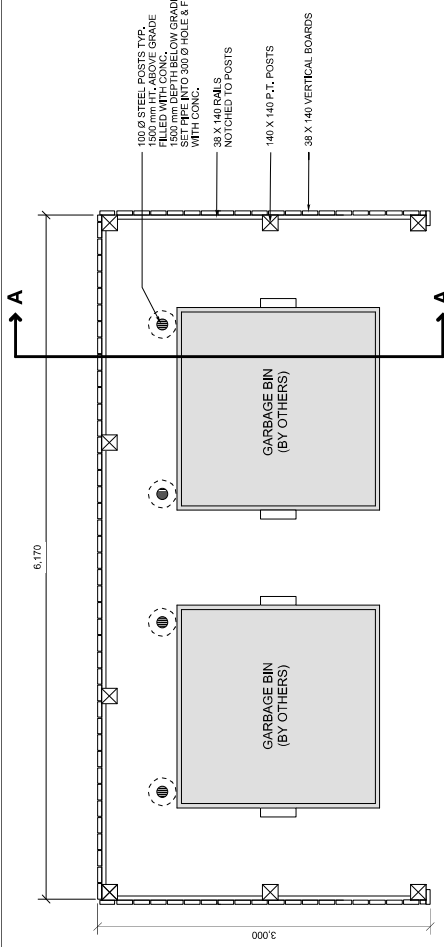


**SECTION A-A**

NOTE: SET TOP OF PAVERS 10mm BELOW THRESHOLD @ DOORS TYP. MAX SLOPE 2%.

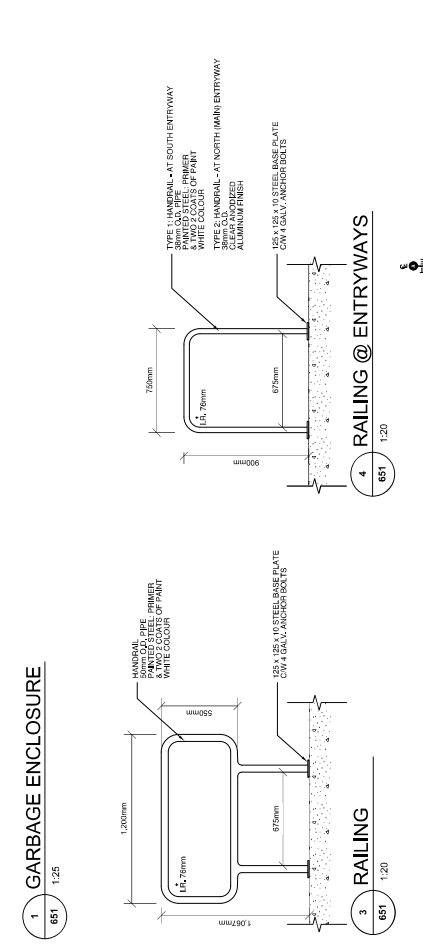


**5 INTERLOCKING PAVING DETAIL**  
 1:10

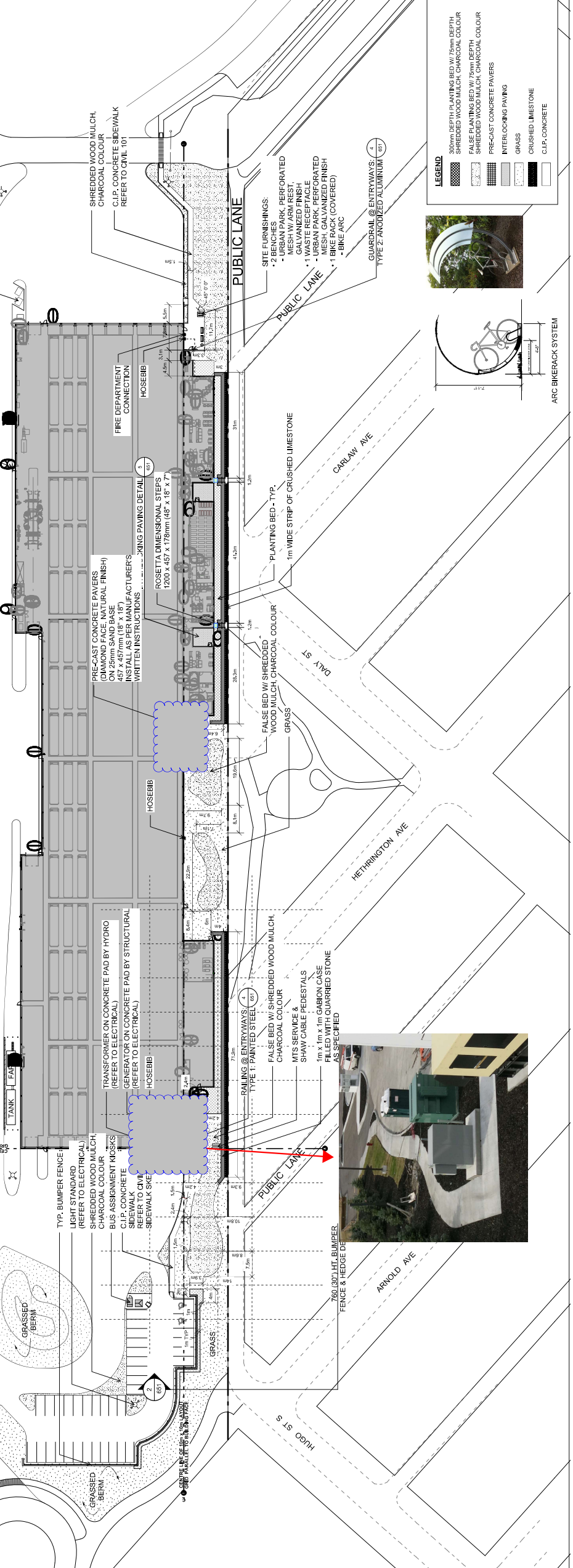


**1 GARbage ENCLOSURE**  
 1:25

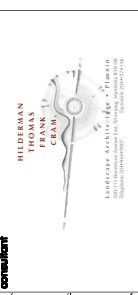
NOTES:  
 1. ADJUST ANGLE OF FENCE AS REQUIRED TO FIT THE SPACE CONFIGURATION ON SITE.  
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.  
 3. ALL WOOD TO BE PRESSURE TREATED GRADE 2 OR BETTER, COLOUR BROWN.



**4 RAILING @ ENTRYWAYS**  
 1:20



The contents of this drawing including all information and data are the intellectual property of Caspian Projects Inc. and are not to be reproduced, reprinted or redrawn for any purpose, for profit or otherwise, without explicit written permission.



**TRANSIT BUS PARKING & SERVICE GARAGE**  
 600 Brandon Ave., Winnipeg, Manitoba

LANDSCAPE LAYOUT & MATERIALS

Project number	12444
Date	February 20, 2013
Drawn by	LR
Checked by	NU/JF

Scale: 1:500  
 0 10 20  
**651**

**LEGEND**

300mm DEPTH PLANTING BED W/ 75mm DEPTH SHREDDED WOOD MULCH, CHARCOAL COLOUR	300mm DEPTH PLANTING BED W/ 75mm DEPTH SHREDDED WOOD MULCH, CHARCOAL COLOUR
FALSE PLANTING BED W/ 75mm DEPTH SHREDDED WOOD MULCH, CHARCOAL COLOUR	PRECAST CONCRETE PAVERS
INTERLOCKING PAVING	GRASS
CRUSHED LIMESTONE	C.I.P. CONCRETE

