
2509 **HMCS CARLETON**

Issued: May 22, 2013.

Project:

Owner: DND

GRC Project No.: 2509

The following clarification relates to the specifications and drawings previously issued.

1. Attachments:

1) Specifications

1. Reference to Section 01 35 21 - GENERAL LEAD REQUIREMENTS of the Specification;
ADD HCMS Carleton LEED Canada NC v1.1 Project Checklist - Ottawa, Ontario. January-15-13.
2. Reference to Section 08 33 23 - OVERHEAD COILING SECURITY SHUTTERS of the Specification;
DELETE in its entirety and REPLACE with revised Section 08 33 23 OVERHEAD COILING SECURITY SHUTTERS, dated May 7,2013 (3 pages attached).
3. Reference to section 08 71 00 - DOOR SCHEDULE of the Specification;
DELETE Pages1; 2 & 9 and REPLACE with Pages 1; 2 & 9, dated May 7, 2013.
Change doors: D 104.2; D133.2 & 140.3 - Change from stainless steel frames and shutters to aluminum frames and shutters (3 pages attached).
4. Reference to Section 09 30 00 - TILING of the Specification;
DELETE in its entirety and REPLACE with revised Section 09 3 00 - TILING, dated May 7, 2013.
(6 pages attached).
5. Reference to Section 12 66 10 -TELESCOPIC BLEACHERS of the Specification;
DELETE in its entirety and REPLACE with revised Section 12 66 10 TELESCOPIC BLEACERS, dated May 7,2013 (3 pages attached).
6. Reference to Section 14 83 00 - SCISSOR LIFT PLATFORMS of the Specification;
DELETE Item 2.02.1.1 Capacity : Minimum 3000 kg and REPLACE it with Item 2.02.1.1 Capacity : Minimum 1134 kg. (2500 lb)
DELETE Item 2.02.1.12 Pump: 3hp and REPLACE it with Item 2.02.1.12 Pump: 1.5 hp
DELETE Item 2.02.13 Power supply: 525 V, 3 phase, 60 Hz and REPLACE it with Item 2.02.13 Power supply: 208V, 3 ph, 60 Hz.
7. Reference to Section 32 37 00 - SITE FURNISHINGS of the Specification;
DELETE Item 1.4.2 "All "InfiniGuard" items to carry an 8 year warranty against rusting, flaking and chipping" and REPLACE with item 1.4.2 "All bicycle racks to carry a two(2) year warranty against rusting."
ADD item 2.1.2 "All bicycle racks are to be galvanized steel.

2) Drawings:

Structural

1. Addendum No. S 01 - dated May 21, 2013.

Architecture.

1. Drawing 331 - Section detail - GRC Architects Drawing: ADDN 331-001.
2. Drawing 332 - Wall section - GRC Architects Drawing: ADDN 332-001.
3. Drawing 334 - Wall sections - GRC Architects Drawing: ADDN 334-001.
4. Drawing 335 - Wall sections - GRC Architects Drawing: ADDN 335-001.
5. Drawing 337 - Section details - GRC Architects Drawing : ADDN 337-001.
6. Drawing 339- Section detail - GRC Architects Drawing : ADDN 339-001.
7. Drawing 339 - Building section/ Roof detail/ Handicap mounting detail -GRC Architects Drawing : ADDN 339-002.
8. Drawing 340 - Stairs 1 &2 Details - GRC Architects Drawing: ADDN-340-001
9. Drawing 340 - Stairs 1 &2 Details - GRC Architects Drawing: ADDN-340-002
10. Drawing 342 - Stairs 5 & 6 Details - GRC Architects Drawing: ADDN-342-001
11. Drawing 345 - Washrooms/Shower rooms - GRC Architects Drawing : ADDN 345-001.
12. Drawing 345 - Washrooms/Shower rooms - GRC Architects Drawing : ADDN 345-002.
13. Drawing 361 - Interior elevations - GRC Architects Drawing: ADDN-361-001

Electrical.

1. Electrical addendum No. E-01 - dated May 21, 2013.- Notes

END OF TENDER ADDENDUM 001.

HMCS Carleton LEED Canada NC v1.1 Project Checklist

Ottawa, Ontario
January-15-13

Targeted	Good potential	Low potential	Not Applicable
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38	4	26	2	Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-70 points
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5	1	6	2	Sustainable Sites	<i>Responsible Party</i>
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Y						
1					SSp1 Erosion & Sedimentation Control	Civil
					SSc1 Site Selection	Civil (Client)
				1	SSc2 Development Density	
				1	SSc3 Redevelopment of Contaminated Site	
1					SSc4.1 Alternative Transportation, Public Transportation Access	LEED (Client)
1					SSc4.2 Alternative Transportation, Bicycle Storage & Changing Rooms	Architect
			1		SSc4.3 Alternative Transportation, Alternative Fuel Vehicles	
			1		SSc4.4 Alternative Transportation, Parking Capacity	
			1		SSc5.1 Reduced Site Disturbance, Protect or Restore Open Space	
			1		SSc5.2 Reduced Site Disturbance, Development Footprint	
			1		SSc6.1 Stormwater Management, Rate and Quantity	Civil
	1				SSc6.2 Stormwater Management, Treatment	Civil
			1		SSc7.1 Heat Island Effect, Non-Roof	
1					SSc7.2 Heat Island Effect, Roof	Architect
1					SSc8 Light Pollution Reduction	Electrical

4			1	Water Efficiency	<i>Responsible Party</i>
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1					WEc1.1 Water Efficient Landscaping, Reduce by 50%	Landscape Architect
1					WEc1.2 Water Efficient Landscaping, No Potable Use or No Irrigation	Landscape Architect
			1		WEc2 Innovative Wastewater Technologies	
1					WEc3.1 Water Use Reduction, 20% Reduction	Mechanical
1					WEc3.2 Water Use Reduction, 30% Reduction	Mechanical

8	2	7		Energy & Atmosphere	<i>Responsible Party</i>
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Y						
Y					EAp1 Fundamental Building Systems Commissioning	Commissioning Authority
Y					EAp2 Minimum Energy Performance	Energy Modeling (Mech, Elec, Arch)
Y					EAp3 CFC Reduction in HVAC&R Equipment	Mechanical
6			4		EAc1 Optimize Energy Performance	Energy Modeling (Mech, Elec, Arch)
			1		EAc2.1 Renewable Energy, 5%	
			1		EAc2.2 Renewable Energy, 10%	
			1		EAc2.3 Renewable Energy, 20%	
1					EAc3 Best Practice Commissioning	Commissioning Authority
1					EAc4 Ozone Protection	Mechanical
			1		EAc5 Measurement & Verification	
			1		EAc6 Green Power	

HMCS Carleton LEED Canada NC v1.1 Project Checklist

Ottawa, Ontario
January-15-13

Targeted	Good potential	Low potential	Not Applicable
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38	4	26	2	Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-70 points
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7	1	6	Materials & Resources	<i>Responsible Party</i>
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Y				MRp1 Storage & Collection of Recyclables	Architect
		1		MRc1.1 Building Reuse: Maintain 75% of Existing Walls, Floors, and Roof	
		1		MRc1.2 Building Reuse: Maintain 95% of Existing Walls, Floors, and Roof	
		1		MRc1.3 Building Reuse: Maintain 50% of Interior Non-Structural Elements	
1				MRc2.1 Construction Waste Management: Divert 50% from Landfill	General Contractor
1				MRc2.2 Construction Waste Management: Divert 75% from Landfill	General Contractor
		1		MRc3.1 Resource Reuse: 5%	
		1		MRc3.2 Resource Reuse: 10%	
1				MRc4.1 Recycled Content: 7.5% (post-consumer + ½ post-industrial)	General Contractor
1				MRc4.2 Recycled Content: 15% (post-consumer + ½ post-industrial)	General Contractor
1				MRc5.1 Regional Materials: 10% Extracted and Manufactured Regionally	General Contractor
1				MRc5.2 Regional Materials: 20% Extracted and Manufactured Regionally	General Contractor
		1		MRc6 Rapidly Renewable Materials	General Contractor
	1			MRc7 Certified Wood	General Contractor
1				MRc8 Durable Building	Building Envelope Specialist

9		6	Indoor Environmental Quality	<i>Responsible Party</i>
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Y				EQp1 Minimum IAQ Performance	Mechanical
Y				EQp2 Environmental Tobacco Smoke (ETS) Control	Client/LEED
		1		EQc1 Carbon Dioxide (CO₂) Monitoring	
		1		EQc2 Ventilation Effectiveness	
1				EQc3.1 Construction IAQ Management Plan: During Construction	General Contractor
1				EQc3.2 Construction IAQ Management Plan: Testing Before Occupancy	General Contractor
1				EQc4.1 Low-Emitting Materials: Adhesives & Sealants	General Contractor
1				EQc4.2 Low-Emitting Materials: Paints and Coating	General Contractor
1				EQc4.3 Low-Emitting Materials: Carpet	General Contractor
1				EQc4.4 Low-Emitting Materials: Composite Wood and Laminate Adhesives	General Contractor
1				EQc5 Indoor Chemical & Pollutant Source Control	Mechanical/Architect
		1		EQc6.1 Controllability of Systems: Perimeter Spaces	
		1		EQc6.2 Controllability of Systems: Non-Perimeter Spaces	
1				EQc7.1 Thermal Comfort: Compliance	Mechanical
1				EQc7.2 Thermal Comfort: Monitoring	Mechanical
		1		EQc8.1 Daylight & Views: Daylight 75% of Spaces	
		1		EQc8.2 Daylight & Views: Views 90% of Spaces	

5			Innovation & Design Process	<i>Responsible Party</i>
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1				IDc1.1 Innovation in Design: Exemplary performance, 40% water use reduction	Mechanical
1				IDc1.2 Innovation in Design: Exemplary performance, 22.5% recycled content	General Contractor
1				IDc1.3 Innovation in Design: Exemplary performance, Regional content within 400km	General Contractor
1				IDc1.4 Innovation in Design: Green Housekeeping	Client (LEED)
1				IDc2 LEED® Accredited Professional	LEED

1 GENERAL

1.01 RELATED SECTIONS

- .1 Section 01 33 00 - Submittals
- .2 Section 01 35 21 - General LEED Requirements
- .3 Section 01 35 22 - LEED Product Requirements
- .4 Section 01 36 50 - Indoor Air Quality Management
- .5 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .6 Section 01 78 00 – Closeout Submittals
- .7 Section 05 50 00 - Metal Fabrications

1.02 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM A 167-99(2009), Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip.
 - .2 ASTM A 276-10, Specification for Stainless and Heat-Resisting Steel Bars and Shapes.
 - .3 ASTM A 653/A 653M-02a, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.03 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures
 - .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheets
 - .3 Shop Drawings:
 - .1 Indicate each type of shutter, arrangement of hardware, required clearances, and integration with adjacent jamb, ceiling and floor finishes
 - .2 Indicate assembly details and dimensions of fabrication
 - .4 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.
 - .5 LEED Submittals:
 - .1 Provide documentation in accordance with Section 01 35 21 – General LEED Requirements.
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1.04 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for overhead coiling security shutters and hardware for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.05 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal

2 PRODUCTS

2.01 SUSTAINABLE REQUIREMENTS

- .1 Materials and products in accordance with Section 01 35 22 – LEED Product Requirements and Section 01 36 50 – Indoor Air Quality Management

2.02 MATERIALS

- .1 Galvanized steel sheet: to ASTM A 653, Coating Designation Z180.
- .2 Aluminum extrusions: Aluminum Association alloy AA 6063-T5, finished to clear anodized.

2.03 DOORS

- .1 Coiling security shutter of interlocking slat sections:
 - .1 Extruded aluminum with clear anodized finish
 - .1 Nominal 8mm diameter horizontal aluminum bars at 50mm o/c
 - .2 Nominal 3mm thick hinged vertical connecting links of approximately 15mm deep X 95mm high at 230mm o/c
 - .3 Bottom bar tube of nominal 100mm height X 45mm width
 - .4 Locking mechanism: Cylinder lock in bottom bar, keyed to main building keying system.
 - .2 Guides and brackets: for between jamb mounted and face of jamb mounted installations as indicated to the following nominal dimensions:
 - .1 Form guides from continuous 6mm thick aluminum angles connected to 38mm X 65mm X 3mm thick continuous extruded aluminum guide sections with continuous nylon wearstrips.
 - .2 No metal to metal operation of door permissible
Wall brackets: 6mm thick steel with aluminum prime paint
 - .3 Barrel to be steel tubing not less than 150mm diameter. Oil tempered torsion springs capable of counter balancing weight of shutter. Barrel designed to limit maximum deflection to 0.8mm per 300mm of opening width. Exterior wheel for spring adjustment. Finish barrel with one coat of prime paint.
 - .4 Hood to be fabricated from minimum 1mm thick clear anodized aluminum and formed to fit curvature of brackets.

- .5 Door operation:
 - .1 Hand crank with removable arm as indicated.

3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.02 INSTALLATION

- .1 Install shutters in accordance with manufacturer's printed instructions.
- .2 Install masterkeyed cylinders specified in Section 08 71 10 - Door Hardware.
- .3 Adjust door operating components to ensure smooth opening and closing of shutters.

3.03 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Clean aluminum with damp rag and approved non-abrasive cleaner in accordance with manufacturer's instructions.
- .3 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

Door No.	Room Name	Frame Type	Throat Dim	Finish	Glass	Details	Door Type	Width	Height	Finish	Glass	Label Min.	Security	Hardware No.	Remarks
MAIN FLOOR LEVEL															
100.1	Vest 100	ALF-1		PREF.	GL-2	WINDOW SCHEDULE	ALD TB-1	1070	2400	PREF.	GL-2		KEY	1	EXIT DEVICE
100.2	Vest 100	ALF-2		PREF.	GL-1	WINDOW SCHEDULE	ALD-1	1070	2400	PREF.	GL-1		--	2	EXIT DEVICE
101.1	stair #1 101	IMF-1/CMP	154	P	_	DETAIL 1	HMD-1	1050	2134	P-ONE SIDE	_		EXIT ONLY	3	EXIT DEVICE
102.1	stair #1 102	HMF-1/CMP	154	P	_	DETAIL 7	HMD-1	1050	2134	P-ONE SIDE	_		--	5	EXIT DEVICE
103.1	103 Q-Deck	STF-RS		PREF.	_	DETAIL 15	ST-RS	3725 TO STRUCT	3015	PREF. #4	_	45		7	FIRE SHUTTER
103.2	103 Q-Deck	STF-RS		PREF.	_	DETAIL 15	ST-RS	3725 TO STRUCT	3015	PREF. #4	_	45		8	FIRE SHUTTER
103.3	103 Q-Deck	STF-RS		PREF.	_	DETAIL 15	ST-RS	6445 TO STRUCT	2640	PREF. #4	_	45		9	FIRE SHUTTER
103.4	103 Q-Deck	STF-RS		PREF.	_	DETAIL 15	ST-RS	6445 TO STRUCT	2640	PREF. #4	_	45		10	FIRE SHUTTER
104.1	104	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_		KEY	11	
104.2	104	ALF-RS		PREF.	_	DETAIL 16	AL-RS	1600	1150	PREF.	_		LOCK	12	ROLLER SHUTTER AND HOOD
105.1	105	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_		KEY	13	
106.1	106	HMF-1	124	P	_	DETAIL 11	HMD-1	2X914	2134	P	_		KEY	14	
108.1	Vest 108	ALF-3	Y	PREF.	GL-2	WINDOW SCHEDULE	ALD TB-1	1070	2400	PREF.	GL-2		KEY	15	EXIT DEVICE
108.2	Vest 108	ALF-4		PREF.	GL-1	WINDOW SCHEDULE	ALD-1	1070	2400	PREF.	GL-1		--	16	EXIT DEVICE
109.1	stair #2 109	IMF-1/CMP	154	P	_	DETAIL 1	HMD-1	1050	2134	P-ONE SIDE	_		EXIT ONLY	4	EXIT DEVICE
110.1	stair #2 110	HMF-1/CMP	154	P	_	DETAIL 7	HMD-1	1050	2134	P-ONE SIDE	_		--	6	EXIT DEVICE
121.1	121	HMF-1	124	P	_	DETAIL 13	HMD-1	950	2134	P	_	45	KEY	17	FIRE RATED
123.1	123	HMF-1	124	P	_	DETAIL 13	IMD-1	950	2134	P	_		KEY	18	SOUND GASKET
124.1	124	HMF-1	124	P	_	DETAIL 13	WD-1	950	2134	P	_		PASG	19	SOUND GASKET
130.1	130	HMF-2A	104	P	GL-1	DETAIL 3	HMD-3	1050	2134	P	GL-1		KEY	20	EXIT DEVICE

Door No.	Room Name	Frame Type	Throat Dim	Finish	Glass	Details	Door Type	Width	Height	Finish	Glass	Label Min.	Security	Hardware No.	Remarks
130.2	130	HMF-2A	104	P	GWG	DETAIL 3	HMD-3	1050	2134	P	GWG	45	--	22	FIRE RATED WITH EXIT DEVICE
131.1	131	HMF-1	104	P	_	DETAIL 10	HMD-1	2X864	2400	P	_		KEY	24	
132.1	132	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_	45	SP. KEY	25	FIRE RATED
132.2	132	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_	45	SP. KEY	26	FIRE RATED
133.1	133	HMF-1	104	P	_	DETAIL 10	HMD-1	2X950	2400	P	_		SP. KEY	27	
133.2	133	ALF-RS		PREF. #4	_	DETAIL 16	AL-RS	2645	1285	PREF. #4	_		LOCK	28	ROLLER SHUTTER AND HOOD
134.1	134	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_		MORT. LOCK	29	
135.1	135	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_		KEY	30	
137.1	137	HMF-1	104	P	_	DETAIL 10	HMD-1	914	2134	P	_	45	MORT. LOCK	31	FIRE RATED
138.1	138	HMF-1	104	P	_	DETAIL 10	HMD-1	914	2134	P	_	S SEAL	MORT. LOCK	32	FIRE RATED
139.1	139	IMF-1	154	P	_	DETAIL 2	IMD-1	1050	2134	P	_		KEY	33	EXIT DEVICE
140.1	140	HMF-1	124	P	_	DETAIL 13	HMD-2	950	2134	P	GL-1		KEY	34	
140.2	140	HMF-1	154	P	_	DETAIL 10	HMD-2	950	2134	P	GL-1		KEY	35	
140.3	140	ALF-RS		PREF. #4	_	DETAIL 16	AL-RS	2200	1285	PREF. #4	_		LOCK	36	ROLLER SHUTTER AND HOOD
141.1	141	HMF-1	124	P	_	DETAIL 13	WD-2	950	2134	P	GL-1		MORT. LOCK/DB	37	
143.1	143	HMF-1	124	P	_	DETAIL 13	WD-2	950	2134	P	GL-1		MORT. LOCK/DB	38	SOUND GASKET
144.1	144	HMF-1	124	P	_	DETAIL 13	WD-1	950	2134	P	_		PASG	39	SOUND GASKET
145.1	145	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_	45	IACS SWIPE	40	FIRE RATED
146.1	146	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_	45	IACS SWIPE	41	FIRE RATED
147.1	147	HMF-1	104	P	_	DETAIL 10	HMD-1	950	2134	P	_	45	IACS SWIPE	42	FIRE RATED
148.1	148	HMF-1	124	P	_	DETAIL 13	WD-2	950	2134	P	GL-1		MORT. LOCK/DB	43	SOUND GASKET

Door No.	Room Name	Frame Type	Throat Dim	Finish	Glass	Details	Door Type	Width	Height	Finish	Glass	Label Min.	Security	Hardware No.	Remarks
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LEGEND:

WD	Wood Door															
HMD	Hollow Metal Door															
IMD	Insulated Metal Door															
HMF	Hollow Metal Frame															
IMF	Insulated Metal Frame- Thermally broken															
ALD	Aluminum Door															
ALD-TB	Aluminum Door- Thermally broken															
ALF	Aluminum Frame															
P	Paint															
PREF.	Prefinished															
CMP	Composite metal panel															
ALF-RS	Aluminum frame- Roller shutter															
AL- RS	Aluminum Roller shutter															
STF-RS	Stainless Steel Frame-Roller Shutter															
ST-RS	Stainless Steel Roller Shutter															
ALF-RG	Aluminum Frame- Roller Grille															
AL-RG	Aluminum Roller Grille															
IOHD	Insulated overhead door															
OHD	Overhead door															

1 GENERAL

1.01 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 35 21 - General LEED Requirements
- .3 Section 01 35 22 - LEED Product Requirements
- .4 Section 01 36 50 - Indoor Air Quality Management
- .5 Section 01 74 21 - Construction/Demolition Waste Management and Disposal
- .6 Section 01 78 00 - Closeout Submittals

1.02 REFERENCES

- .1 International (ASTM)
 - .1 ASTM C144-04, Standard Specification for Aggregate for Masonry Mortar.
 - .2 ASTM C979-05, Standard Specification for Pigments for Integrally Coloured Concrete.
- .2 Canadian Standards Association (CSA International)
 - .1 CSA A3000-08(R2006), Cementitious Materials Compendium.
- .3 Terrazzo Tile and Marble Association of Canada (TTMAC)
 - .1 Tile Specification Guide 09 30 00 2006/2007, Tile Installation Manual.

1.03 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide samples: submit duplicate full size sample panels of each colour, texture, size, and pattern of tile.
- .3 LEED Submittals:
 - .1 Provide documentation in accordance with Section 01 35 21 – General LEED Requirements

1.04 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data in accordance with Section 01 78 00 – Closeout Submittals.

1.05 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal
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1.06 AMBIENT CONDITIONS

- .1 Maintain air temperature and structural base temperature at ceramic tile installation area above 12 degrees C for 48 hours before, during, and 48 hours after, installation.
- .2 Do not install tiles at temperatures less than 12 degrees C or above 38 degrees C.

2 PRODUCTS

2.01 SUSTAINABLE REQUIREMENTS

- .1 Materials and products in accordance with Section 01 35 22 – LEED Product Requirements and Section 01 36 50 – Indoor Air Quality Management.

2.02 PORCELAIN FLOOR TILE

- .1 PFT-A:
 - .1 Size: 300mm width x 600mm length x 10mm thick
 - .2 Colour: Dark charcoal base colour with hints of beige and small light-coloured random flecks
 - .3 Surface: lightly textured, natural matte slip-resistant finish
- .2 PFT-B:
 - .1 Size: nominal 300mm width x 600mm length x 10mm thick
 - .2 Colour: no two tiles alike, variegated colouration in each tile, light grey base colour with hints of light beige and small light-coloured random flecks
 - .3 Surface: lightly textured, natural matte slip-resistant finish

2.03 PORCELAIN WALL TILE

- .1 CT-W1
 - .1 Size: 100 x 400mm
 - .2 Colour: matte white
 - .3 Surface: smooth

2.04 GLASS WALL TILE

- .1 CT-W2
 - .1 Size: 200 x 200mm
 - .2 Colour: light grey blend
 - .3 Surface: smooth

2.05 TRIM SHAPES

- .1 Conform to applicable requirements of adjoining floor and wall tile.
 - .2 Wall base tile: 100mm height cut tile to match adjacent floor tile.
 - .3 Use slip resistant trim shapes for horizontal surfaces of showers, overflow ledges, recessed steps, shower curbs, drying area curbs, and stools.
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- .4 Use trim shapes sizes conforming to size of adjoining field wall tile, including existing spaces, unless specified otherwise.
- .5 Use slip resistant trim shapes for horizontal surfaces of showers, overflow ledges, recessed steps and shower thresholds.
 - .1 Shower thresholds: solid granite, black colour with light sandblasted surface. Nominal 48mm thickness X full width of shower opening. Provide 5mm radii to edges.
Barrier free showers: (Rooms 222 & 224) Thresholds to meet NBC barrier-free requirements. Slope tiles to terminate 6mm below top of thresholds. Slope Washroom floors to have an apex in line with entrance to the showers. Install tile base to raise the lockers 50mm above the second floor slab.
Showers (Rooms 283 & 284) Install tiles in shower to terminate 6mm below the top of the thresholds; lay tiles on the washroom side level and to butt up against the threshold.

2.06 MORTAR AND ADHESIVE MATERIALS

- .1 Cement: to CSA A3000, type 10.
- .2 Sand: to ASTM C144, passing 16 mesh.
- .3 Latex additive: formulated for use in cement mortar and thin set bond coat.
- .4 Water: potable and free of minerals and chemicals which are detrimental to mortar and grout mixes.
- .5 Acoustical mastics as recommended by tile manufacturer.

2.07 BOND COAT

- .1 Solid tile walls: thinset adhesive compounds as recommended within TTMAC details and tile manufacturer.
- .2 Glass tile walls: solid coloured thinset adhesive compounds as recommended within TTMAC details and tile manufacturer.
- .3 Floors: Polymer modified thin-Set Mortar in accordance with ANSI A118.4.

2.08 GROUT

- .1 Colouring Pigments:
 - .1 Pure mineral pigments, limeproof and nonfading, complying with ASTM C979.
 - .2 Colouring pigments to be added to grout by manufacturer. Job coloured grouts are not acceptable.
 - .3 Four colours to be selected by DCC Representative
- .2 Commercial cement polymer modified grout.

2.09 ACCESSORIES

- .1 Following accessory components by single manufacturer. Final profiles to be selected by DCC Representative:

- .1 Divider strips: purpose made anodized extruded aluminum.
- .2 Transition strips: purpose made anodized extruded aluminum.
- .3 Edge termination strips: purpose made anodized extruded aluminum

- .4 Reducer strips: purpose made anodized extruded aluminum. Profiles to be sized to suit each flooring thickness

- .2 Sealant: in accordance with Section 07 92 00 - Sealants.

2.10 WATERPROOF MEMBRANE

- .1 Flexible waterproofing system consisting of elastomeric latex compound and reinforcing fabric to form seamless waterproof barrier behind ceramic wall and floor tile

2.11 PATCHING AND LEVELLING COMPOUND

- .1 Cement base, acrylic polymer compound, manufactured specifically for resurfacing and leveling concrete floors. Products containing gypsum are not acceptable.

- .2 Have not less than the following physical properties:
 - .1 Compressive strength - 25 MPa.
 - .2 Tensile strength - 7 MPa.
 - .3 Flexural strength - 7 MPa.
 - .4 Density - 1.9.

- .3 Capable of being applied in layers up to 50 mm thick, being brought to feather edge, and being trowelled to smooth finish.

- .4 Ready for use in 48 hours after application.

3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.02 WORKMANSHIP

- .1 Do tile work in accordance with TTMAC Tile Installation Manual 2006/2007, "Ceramic Tile", except where specified otherwise.

- .2 Apply tile to clean and sound surfaces.

- .3 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even. Do not split tiles.

- .4 Maximum surface tolerance 1:800.

- .5 Make joints between tile uniform and approximately 1.5 mm wide, plumb, straight, true, even and flush with adjacent tile. Ensure sheet layout not visible after installation. Align

patterns.

- .6 Lay out tiles so perimeter tiles are minimum 1/2 size.
- .7 Sound tiles after setting and replace hollow-sounding units to obtain full bond.
- .8 Never grout interior corners. Apply sealant to match adjacent grout colour.
- .9 Install edge trim pieces at all exposed and cut tile edges.
- .10 Install divider strips at junction of tile flooring and dissimilar materials.
- .11 Install transition and edge trims at all exposed tile edges.
- .12 Allow minimum 24 hours after installation of tiles, before grouting.
- .13 Clean installed tile surfaces after installation and grouting cured.
- .14 Ensure shower floors slope 3 - 5% towards floor drains.

3.03 INSTALLATION

- .1 Install waterproofing membrane to wall and floor substrates, prior to shower tile installations, in accordance with membrane manufacturer's printed instructions. Ensure waterproof installation, connections and transitions at corners, seams, penetrations and floor drains.
 - .2 Install in accordance with appropriate TTMAC detail.
-

END OF SECTION

1 GENERAL

1.1 RELATED REQUIREMENTS

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 01 35 21 – General LEED® Requirements
- .3 Section 01 35 22 – LEED® Product Requirements
- .4 Section 01 74 21 – Construction/Demolition Waste Management and Disposal
- .5 Section 01 78 00 - Closeout Submittals

1.2 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Shop drawings: Indicate size and description of components, base material, surface finish inside and out.
- .3 LEED Submittals:
 - .1 Provide documentation in accordance with Section 01 35 21 - General LEED Requirements.
- .4 Submit seating and deck samples, as required.

1.3 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide information required in accordance with Section 01 78 00 - Closeout Submittals

1.5 QUALITY ASSURANCE

- .1 The manufacturer shall be a firm experienced in the manufacturing of telescoping bleacher seating systems.
- .2 The telescopic seating system manufacturer shall have all welding done in a CWB/AWB certified shop.

1.6 WARRANTY

- .1 Manufacturer to warranty all work performed within this Section to operate properly and be free from defects for a period of not less than 5 years.
-

2 PRODUCTS

2.1 SUSTAINABLE REQUIREMENTS

- .1 Materials and products in accordance with Section 01 35 22 – LEED® Product Requirements.

2.2 MATERAILS

- .1 Frame:
 - .1 Steel: Steel: standard structural steel fabrication by bleacher manufacturer, black enamel painted.
 - .2 All cross bracing and horizontal bracing shall be steel profiles as fabricated by bleacher manufacturer, black enamel painted.
- .2 Seat planks:
 - .1 Nominal 300mm width high density polyethylene moulded seats
 - .2 Tread and Riser Planks: Aluminum alloy 6063-T6, mill finish. With a wall thickness nominally 2 mm for impact and deformation resistance.
- .3 Guardrail Pipe: 40 mm aluminum alloy 6105-T5, clear anodized finish.

2.3 DESIGN: RETRACTABLE BLEACHER

- .1 Provide 4 rows of seating for the maximum specified amount of spectators, 10m in length for each set of bleachers. Spacing to be nominal 800mm, rise height of seat rows nominal 300mm
- .2 System to be wall attached..
- .3 Provide safety end closure curtains and self storage end rails aluminum alloy 6105-T5.
- .4 Provide 2 end aisles and associated rails coordinated with seat patterning.

2.4 ACCESSORIES

- .1 Accessories:
 - .1 Channel End Caps: Aluminum alloy 6063-T6, clear anodized
 - .2 Hardware: Bolts and Nuts shall be black enamel painted
 - .3 Hold Down Clip Assembly: Aluminum alloy 6063-T6 mill finish.
 - .4 Joint Sleeve Assembly: Aluminum alloy 6061-T6, mill finish.

3 EXECUTION

3.1 GENERAL

- .1 Manufacturer's representative or bleacher system installer shall demonstrate the proper method of operation of the bleacher system upon completion of the work.
 - .2 Verify that all areas are free of impediments interfering with installation and that substrates are
-

acceptable to receive seating in accordance with the manufacturer's recommendations.

3.2 INSTALLATION

- .1 Install bleacher unit in accordance with manufacturer's written instructions and reviewed shop drawings.
- .2 Upon completion of installation, adjust each seating assembly and entire unit retraction to operate in compliance with manufacturer's recommendations.

END OF SECTION

1.05 DELIVERY, STORAGE AND HANDLING

- .1 Packing, shipping, handling and unloading: in accordance with manufacturer's printed instructions

1.06 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal

2 PRODUCTS

2.01 SUSTAINABLE REQUIREMENTS

- .1 Materials and products in accordance with Section 01 35 22 - LEED Product Requirements

2.02 ELECTRO-HYDRAULIC SYSTEM

- .1 Provide hydraulic system with following requirements:
 - .1 Capacity: minimum 1134 kg. (2500lb).
 - .2 Platform, checker-plated steel with:
 - .1 Minimum 1800 mm wide by 3000 mm deep.
 - .2 Capable of accommodating manual and electric pallet jacks.
 - .3 Split lip, nominal 450 x 850mm spring compensators and vertical locks with 205 degree rotation including pull-chains
 - .3 Travel:
 - .1 Minimum 300mm closed height
 - .2 Minimum 1475mm vertical travel
 - .4 Limit switch to stop platform at dock level
 - .5 Override feature to raise platform 300mm above dock level
 - .6 Removable guard rail: 1067mm height
 - .7 Kickplates: continuous, 100mm height
 - .8 Safety chains at each open end
 - .9 Vinyl curtain on spring roller at platform front end
 - .10 Toe-guard: 300mm height fixed guard below platform
 - .11 Velocity safety fuse on each cylinder to prevent platform freefall
 - .12 Pump: 1.5 hp
 - .13 Power supply: 208 V, 3 phase, 60 Hz
 - .14 Control:
 - .1 Push button control to raise and lower platform
 - .2 Minimum 4500mm length coil cord
 - .3 Control holster mounted on guardrail

2.03 FINISH

- .1 Ferrous metal:
 - .1 Clean metal surfaces, treat with phosphate.
 - .2 Apply one coat primer.
 - .3 Apply baked on finish coat in accordance with manufacturer's instructions.

James B. Lennox & Associates Inc.
LANDSCAPE ARCHITECTS

SK L 001

Issued to: GRC Architects May 7, 2013

Project: HMCS CARLETON REPLACEMENT

Project No.: H-050/4-0302

Owner: DCC-CDC

The following clarification and revision items are noted, as they relate to the specifications and drawings previously issued.

LANDSCAPE ITEMS

1. SITE FURNISHINGS

.1 Specification Section 32 37 00, dated February 19, 2012 .

3. Description:

.1 **Delete Item 1.4.2 "All "InfiniGuard" items to carry an 8 year warranty against rusting, flaking or chipping."**

.2 **Add item 1.4.2 "All bicycle racks are to carry a two (2) year warranty against rusting."**

.3 **Add item 2.1.2 "All bicycle racks are to be galvanized steel finish".**

Prepared By:

JAMES LENNOX
JAMES B. LENNOX &
ASSOCIATES INC.
LANDSCAPE
ARCHITECTS



JAMES B. LENNOX, B.L.A.

END OF SK

1. ATTACHMENTS**1.1 Drawing:**

H-O50/4-0302 211 Ground Floor Plan May21, 2013

1.2 Sketches:

SSK-212 01 Part Plan Level 2 May 21, 2013

SSK-212 02 Part Plan Level 2 May 21, 2013

SSK-223 01 Base Plate Schedule May 21, 2013

SSK-223 02 Part Schedules Drawing May 21, 2013

SSK-234 01 Section 304/212 & Section 304/212 May 21, 2013

2. DESCRIPTION

The following sections have been added or modified.

2.1 Revisions to Structural Drawings

2.1.1 H-O50/4-0302-211: Piers added and revised.

2.1.2 H- O50/4-0302-212-SSK-212-01: HSS 150x150x9.5 added above overhead door at gridline 14 between gridlines F & H.

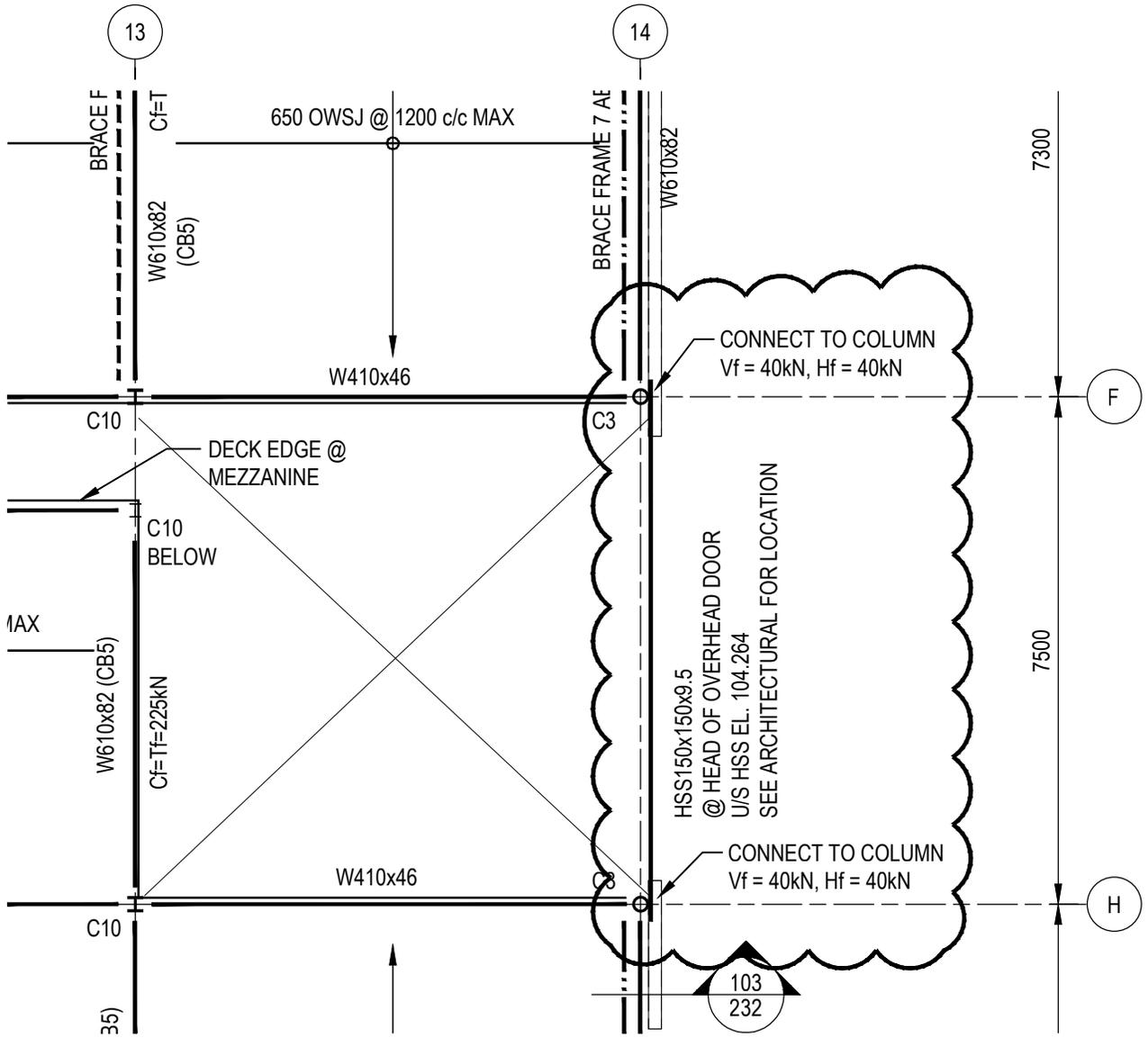
2.1.3 H- O50/4-0302-212-SSK-212-02: Masonry Lintel MB1 added at door locations on gridline 3, with W beam deleted.

2.1.4 H-O50/4-0302-223-SSK-223-01: BP5 Layout revised at brace frame locations.

2.1.5 H-O50/4-0302-223-SSK-223-02: Piers and Grade Beams details revised, and pier details added.

2.1.6 H-O50/4-0302-234-SSK-234-01: Section 303/212 & Section 304/212 revised, and sections scale revised.

END OF ADDENDUM



PART PLAN LEVEL 2

SCALE: 1:100

PROJECT: HMCS CARLETON REPLACEMENT
PROJET:

SUBJECT: ADDENDUM 1
SUJET:

DATE: 2013-05-21

APPROVED:
APPROUVÉ
PAR:

PC/JT

SCALE:
ÉCHELLE:

AS NOTED

PROJECT NO.:

H-O50/4-0302

NUMÉRO DU PROJET:

DWG NO.:

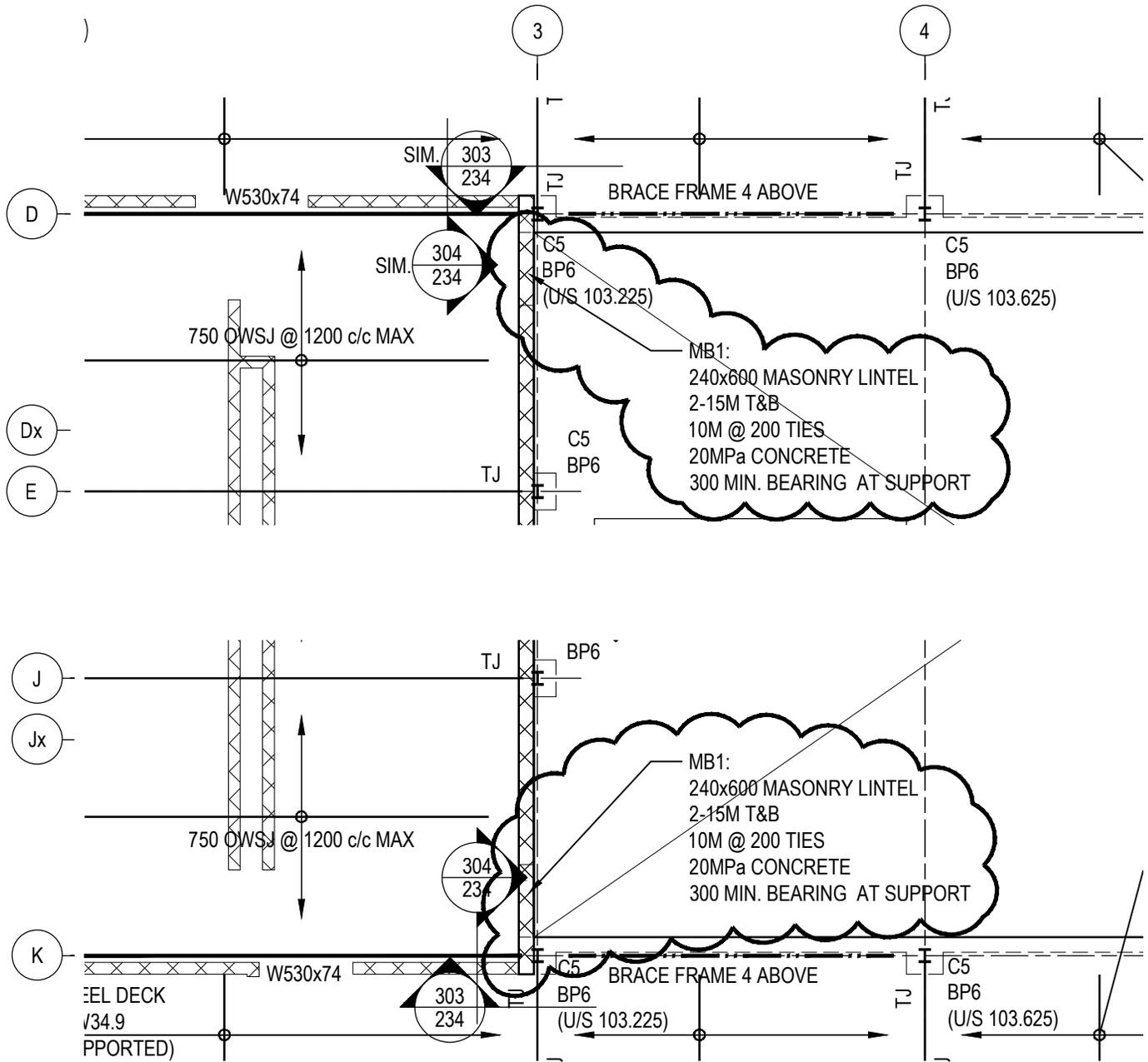
SSK-212-01

NUMÉRO DU DESSIN:



National
Defence

Défense
nationale



PART PLAN LEVEL 2

SCALE: 1:100

PROJECT: HMCS CARLETON REPLACEMENT
PROJET:

SUBJECT: ADDENDUM 1
SUJET:

DATE: 2013-05-21

APPROVED:
APPROUVÉ
PAR:

PC/JT

SCALE:
ÉCHELLE:

AS NOTED

PROJECT NO.:

H-O50/4-0302

NUMÉRO DU PROJET:

DWG NO.:

SSK-212-02

NUMÉRO DU DESSIN:



BASE PLATE SCHEDULE

TYPE MARK	SIZE	ANCHOR BOLTS	REMARKS
BP1	16x350x350	4-M20 A307 MIN. EMBED. = 200mm	
BP2	20x350x350	4-M20 A307 MIN. EMBED. = 200mm	
BP3	20x400x400	4-M20 A307 MIN. EMBED. = 200mm	
BP4	16x400x400	4-M20 A307 MIN. EMBED. = 200mm	
BP5	40x400x400	8-M27 BOLTS MIN. EMBED. = 400mm	ROUND COL. WHERE INDICATED ON PLAN
BP5 @ B.F. LOCATIONS	40x400x550	8-M27 BOLTS MIN. EMBED. = 400MM	ROUND COL. WHERE INDICATED ON PLAN
BP6	40x490x490	8-M27 BOLTS MIN. EMBED. = 500mm	ROUND COL. WHERE INDICATED ON PLAN
BP7	40x700x500	8-M27 BOLTS MIN. EMBED. = 500mm	ROUND COL. WHERE INDICATED ON PLAN

PROJECT: **HMCS CARLETON REPLACEMENT**
 PROJET:

SUBJECT: **ADDENDUM 1**
 SUJET:

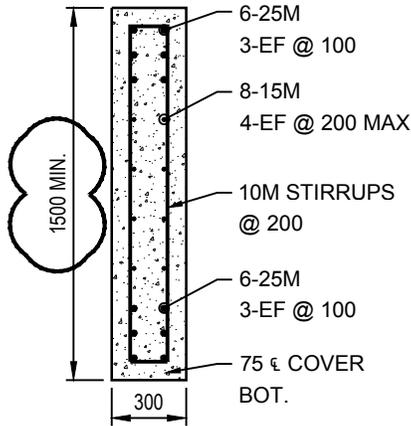
DATE: **2013-05-21**

APPROVED: **PC/JT**
 APPROUVÉ
 PAR:

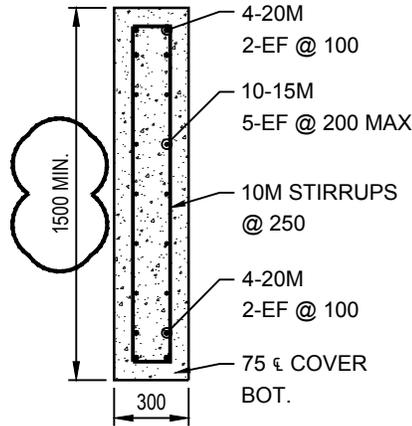
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PROJECT NO.: **H-O50/4-0302**
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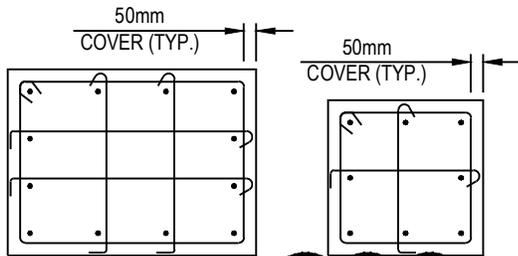
DWG NO.: **SSK-223-01**
 NUMÉRO DU DESSIN:



GRADE BEAM GB2



GRADE BEAM GB1

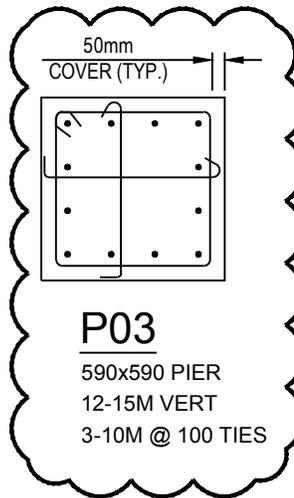


P01

800x600 PIER
12-15M VERT
5-10M TIES @ 100

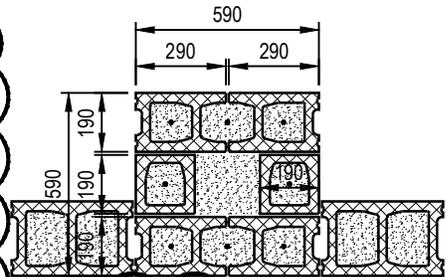
P02

500x500 PIER
8-15M VERT
3-10M TIES @ 100



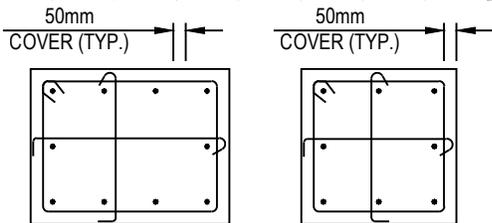
P03

590x590 PIER
12-15M VERT
3-10M @ 100 TIES



MP03

190x390 PARTIAL BLOCKS (AS SHOWN)
8-20M VERTICAL IN FULLY
GROUTED CORES
2-5M TIES @ 200
f'm = 15MPa TYPE S MORTAR
f_y = 400MPa



P04

500x650 PIER
10-15M VERT
3-10M TIES @ 100

P05

500x500 PIER
8-15M VERT
3-10M TIES @ 220

PART SCHEDULES

SCALE: 1:100

PROJECT: HMCS CARLETON REPLACEMENT
PROJET:

SUBJECT: ADDENDUM 1
SUJET:

DATE: 2013-05-21

APPROVED:
APPROUVÉ
PAR:

PC/JT

SCALE:
ÉCHELLE:

AS NOTED

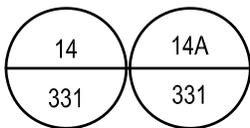
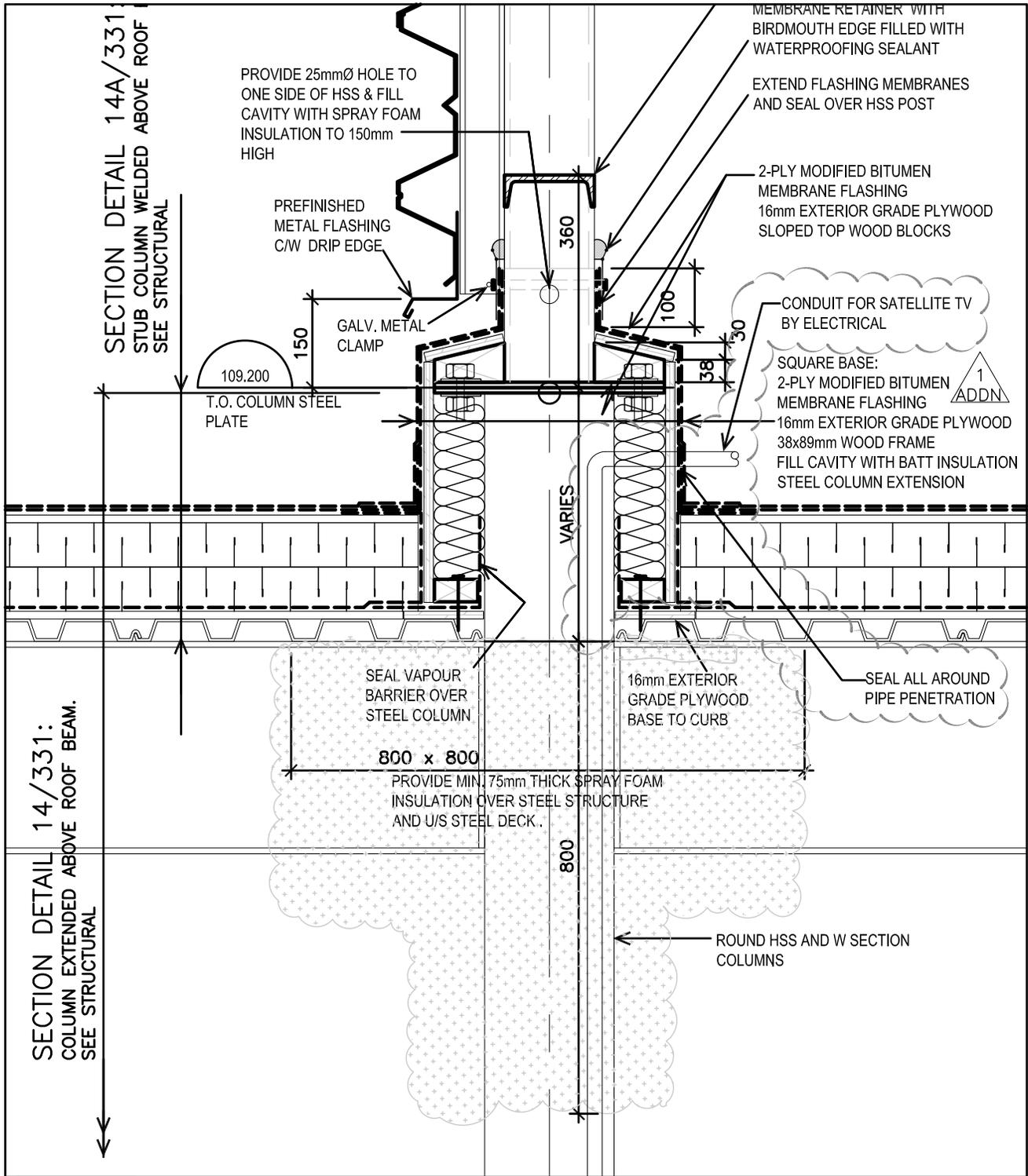
PROJECT NO.:

H-O50/4-0302

NUMÉRO DU PROJET:

DWG NO.:

NUMÉRO DU DESSIN: SSK-223-02



SECTION DETAIL - ROOF SCREEN

SCALE: 1:10



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Job Title
HMCS-CARLETON REPLACEMENT

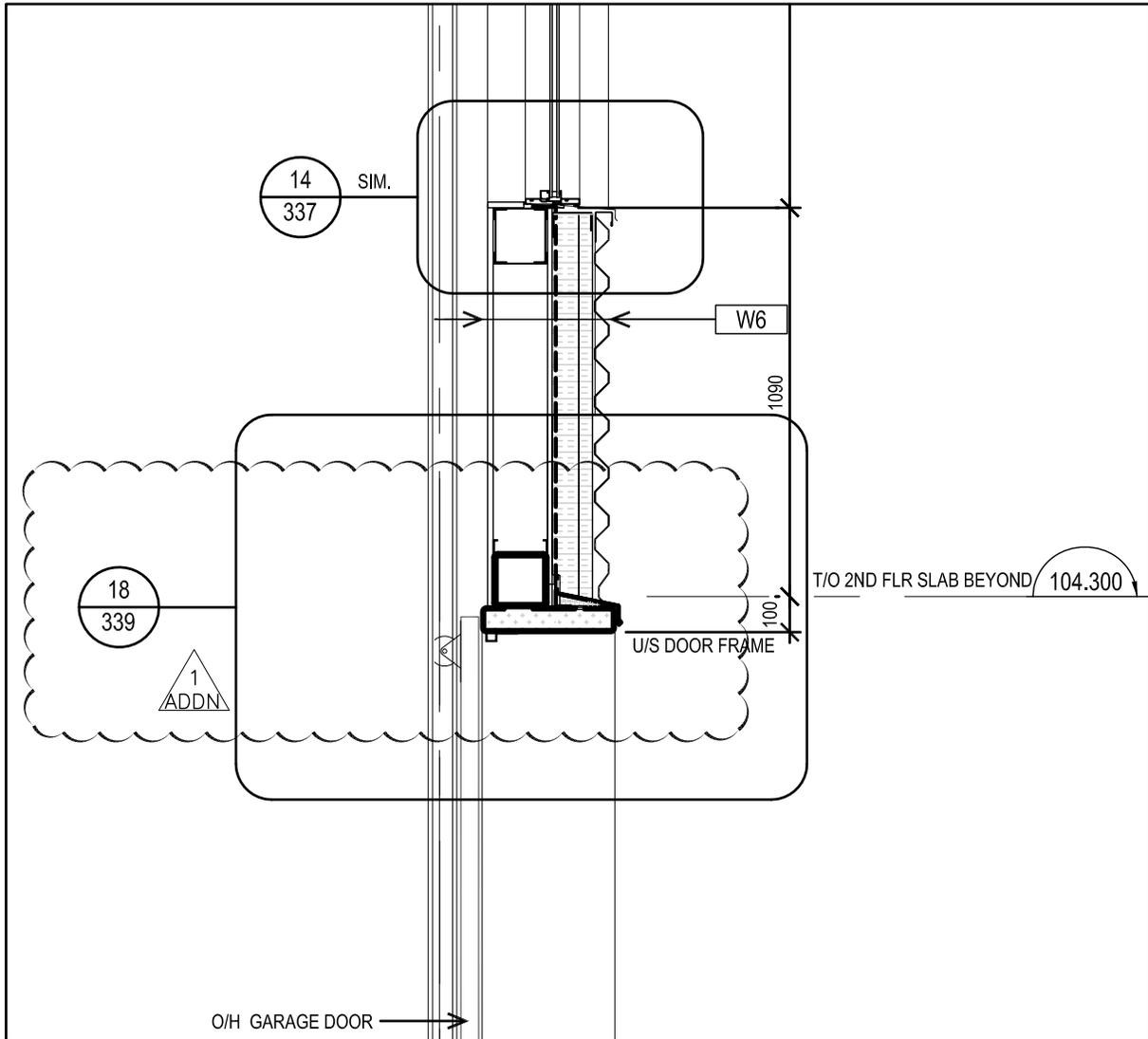
Drawing Description
SECTION DETAIL

Job No. 2509

Date
May 6, 2013.

Drawn By
LS

Drawing Number
ADDN-331-001



3
332
WALL SECTION AT OVERHEAD DOOR
 SCALE: 1:20

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Job Title

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Drawing Description

WALL SECTION

Job No.

2509

Date

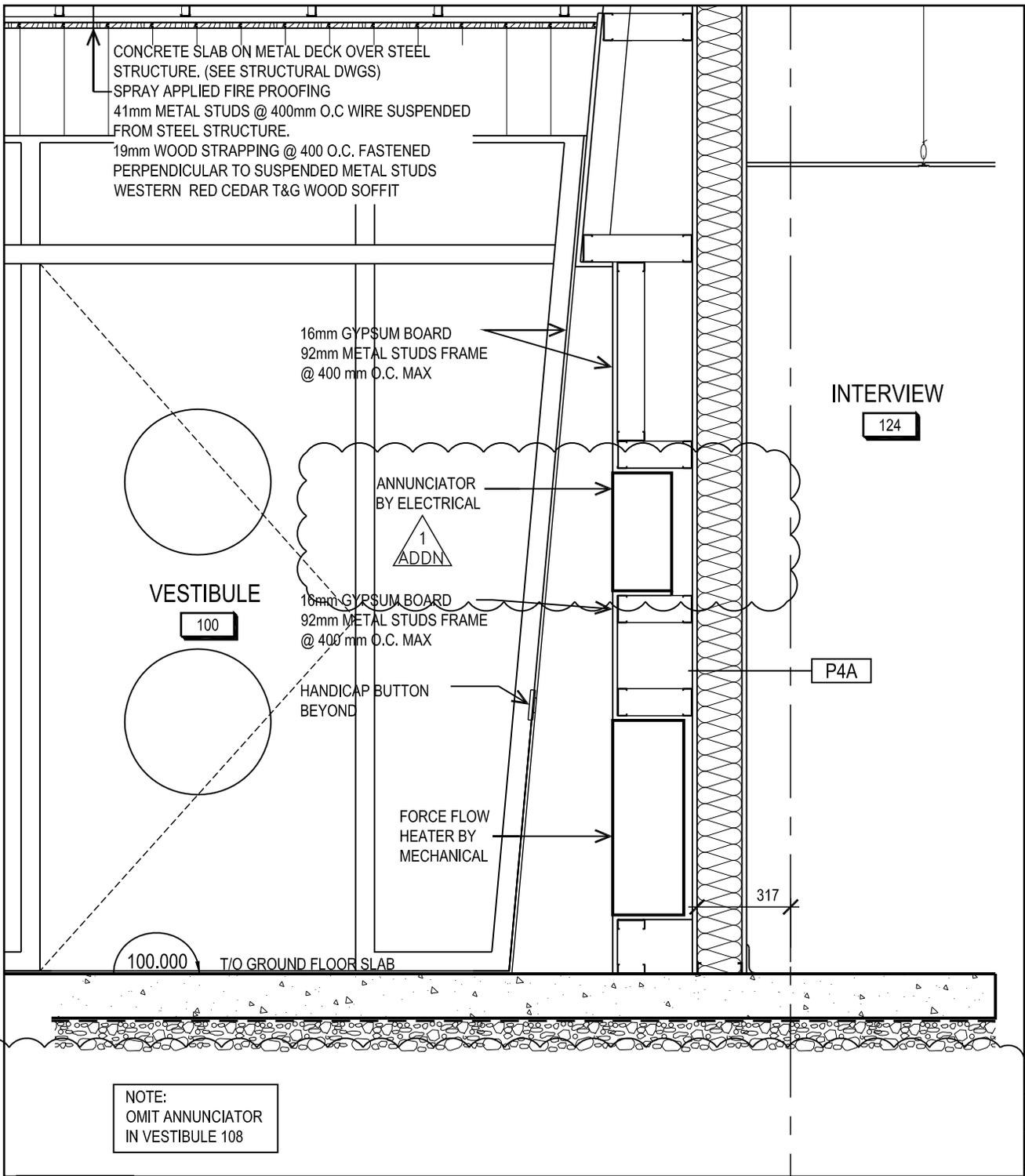
May 3, 2013

Drawn By

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Drawing Number

ADDN-332-001



4
335

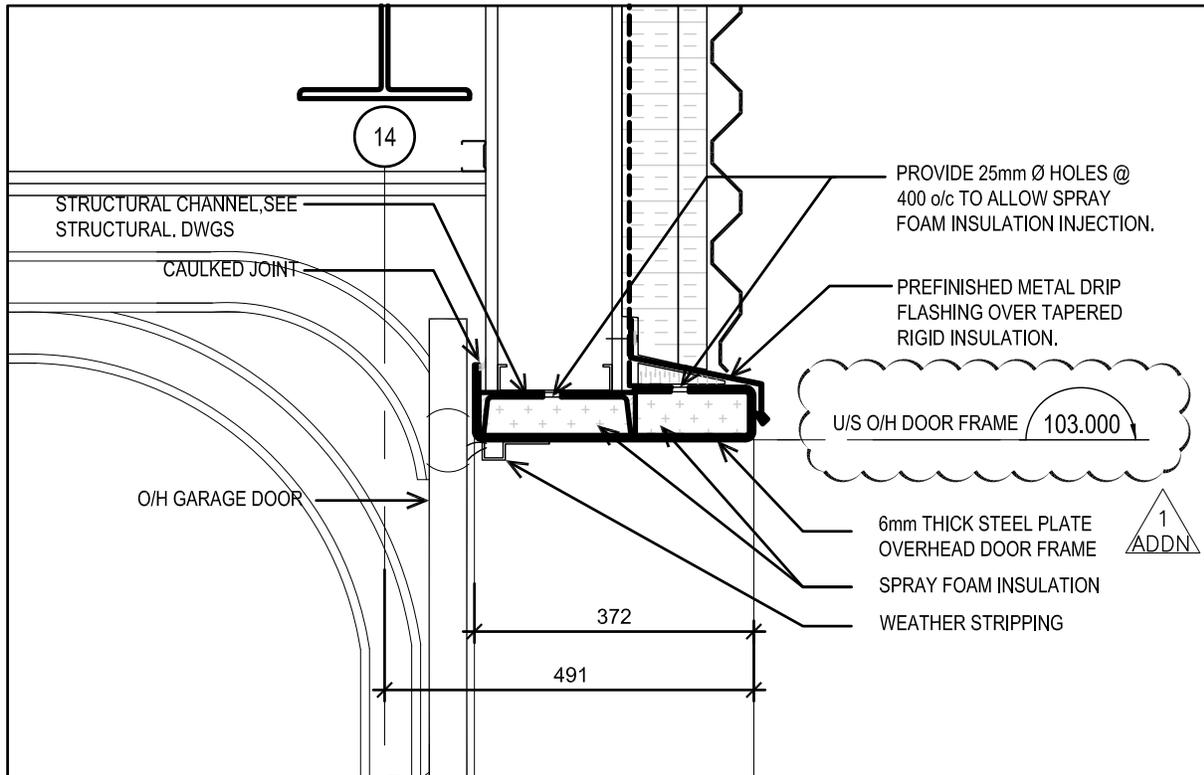
WALL SECTION-INTERIOR WALL (TYP)

1
ADDN

SCALE: 1:20

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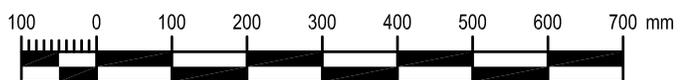
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Drawing Description	WALL SECTION	Date	May 17, 2013.
		Drawn By	LS
		Drawing Number	ADDN-335-001



23 SECTION DETAIL - OVERHEAD DOOR

337

SCALE: 1:10



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Job Title

HMCS-CARLETON REPLACEMENT

Drawing Description

SECTION DETAIL

Job No.

2509

Date

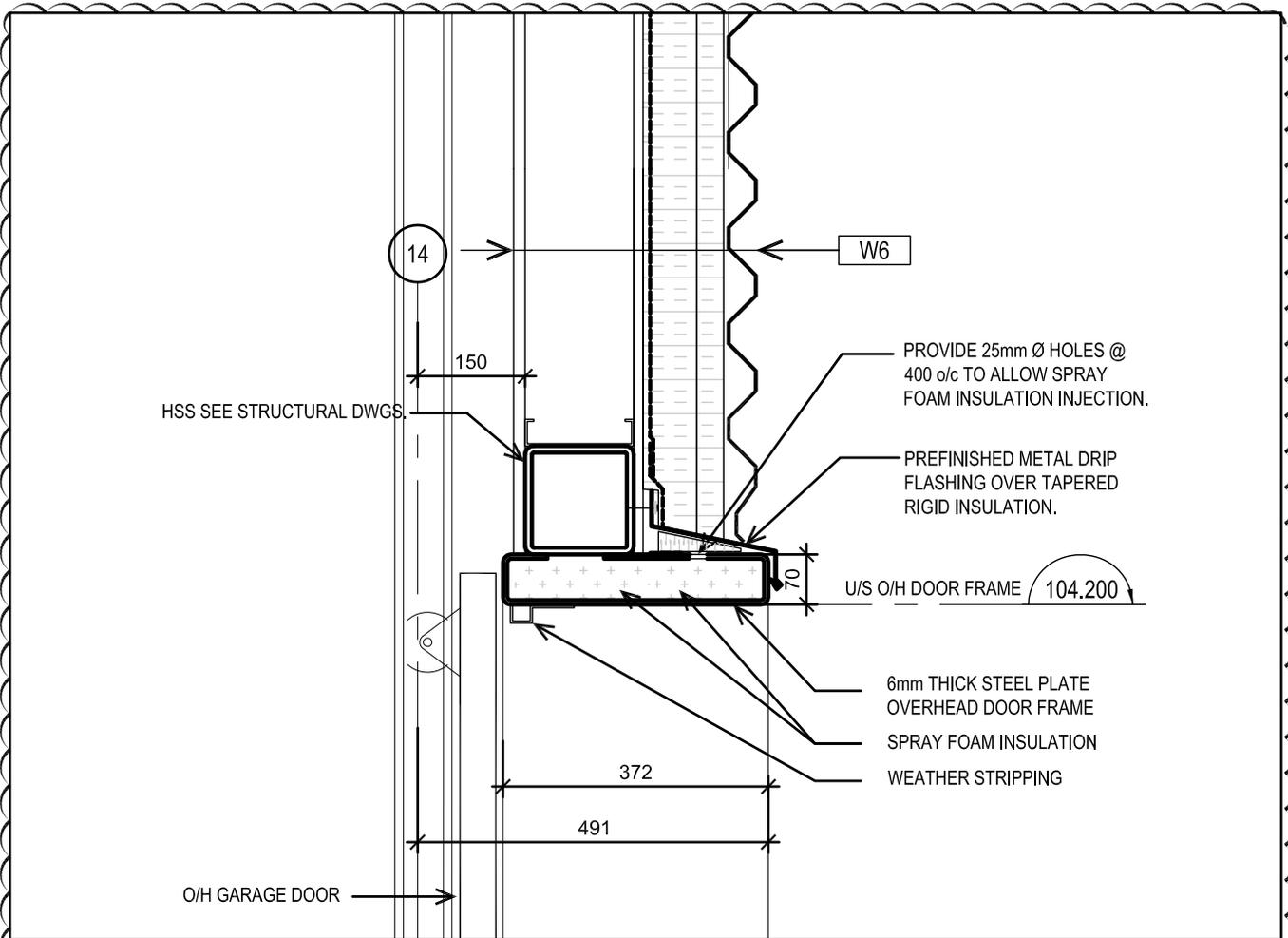
May 6, 2013

Drawn By

LS

Drawing Number

ADDN-337-001



18

SECTION DETAIL-OVERHEAD DOOR

339

SCALE: 1:10

1
ADDN

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Job Title

HMCS-CARLETON-REPLACEMENT

Drawing Description

SECTION DETAIL

Job No.

2509

Date

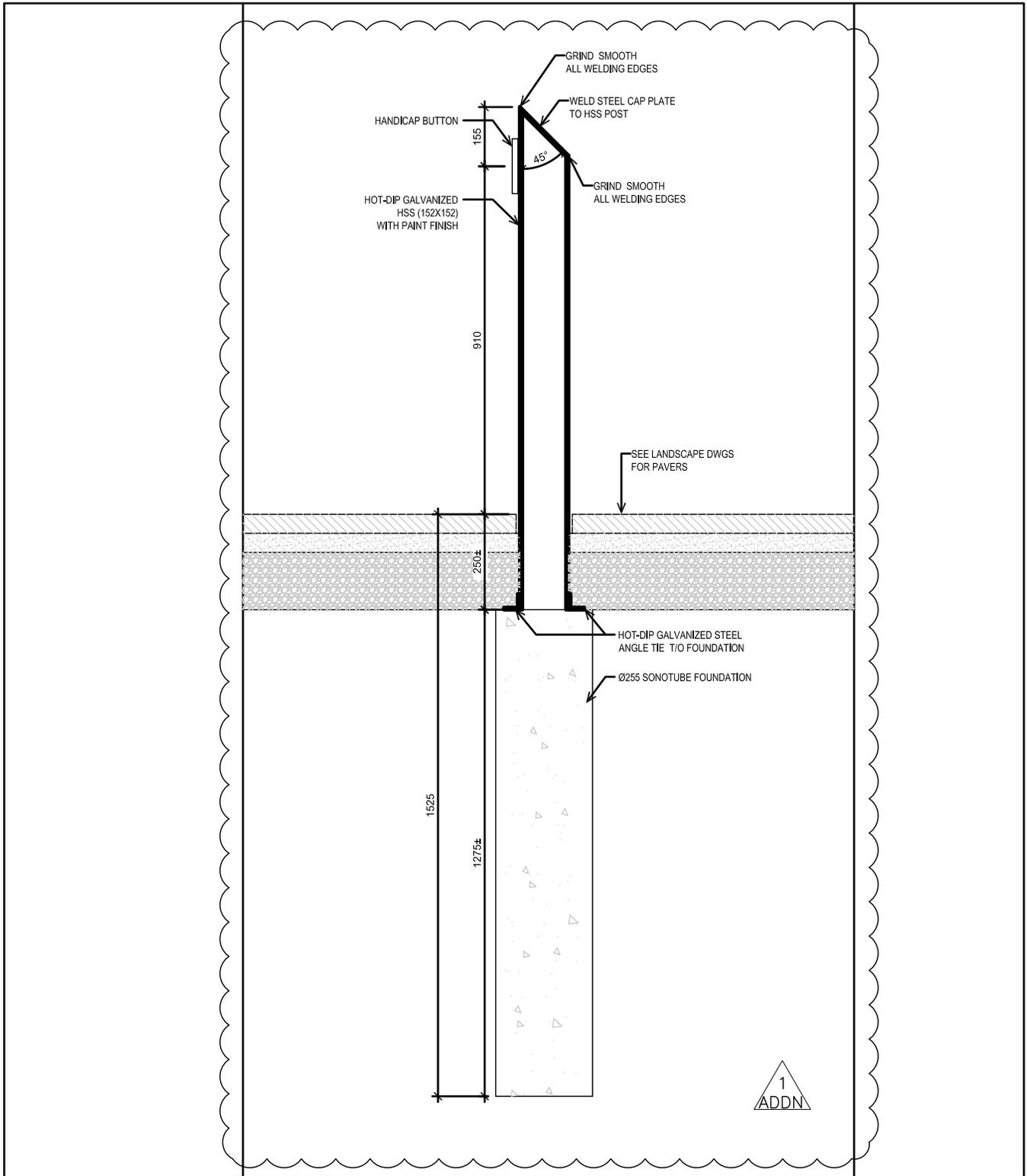
May 6, 2013

Drawn By

LS

Drawing Number

ADDN-339-001



19
339

HANDICAP MOUNTING DETAIL

SCALE: 1:10

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Job Title

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Drawing Description

SECTION DETAIL

Job No.

2509

Date

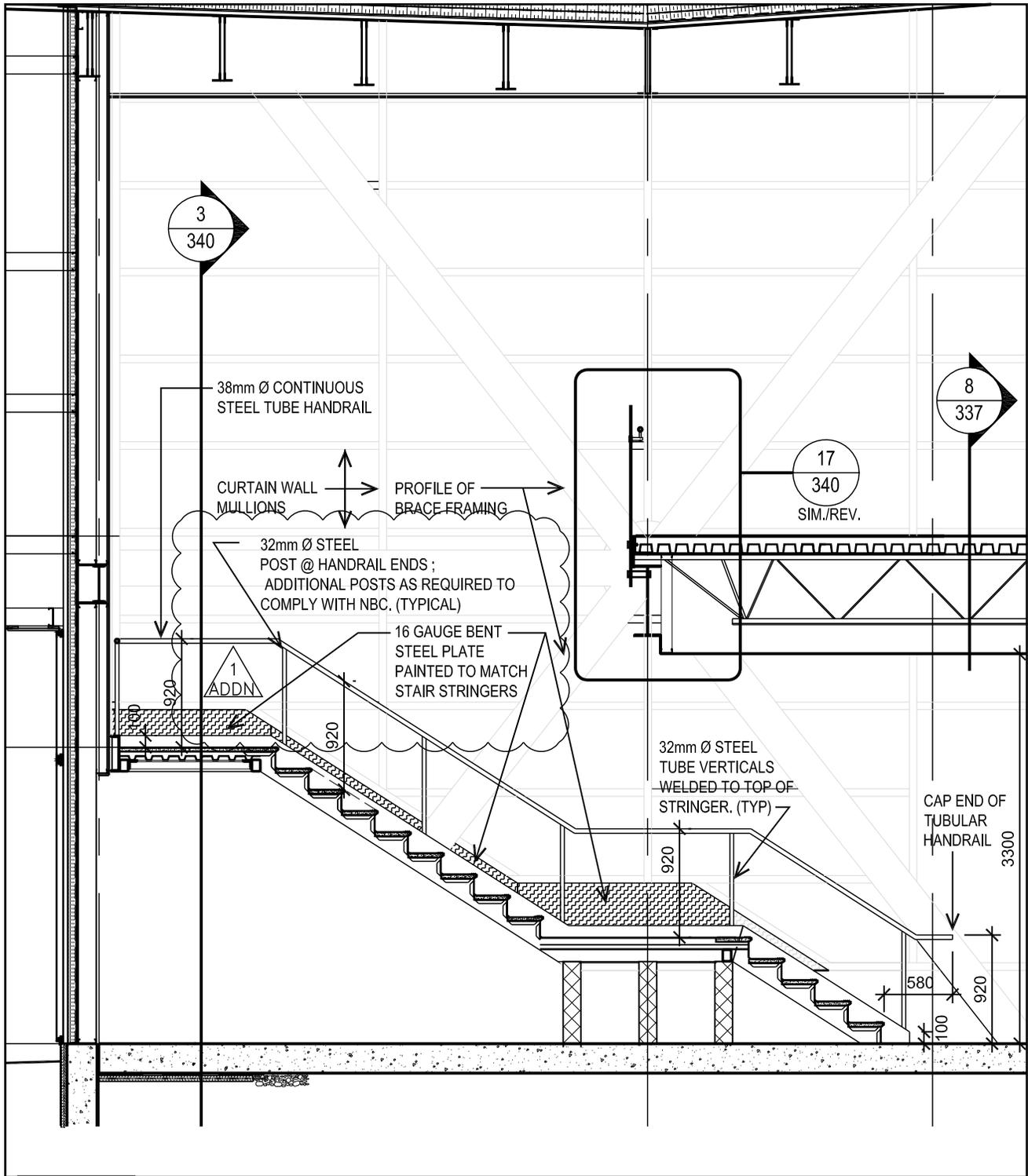
May 6, 2013

Drawn By

LS

Drawing Number

ADDN-339-002



4
340

STAIR #1- CROSS SECTION

SCALE: 1:50

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Job Title

HMCS-CARLETON REPLACEMENT

Drawing Description

STAIR #1&2-DETAILS

Job No.

2509

Date

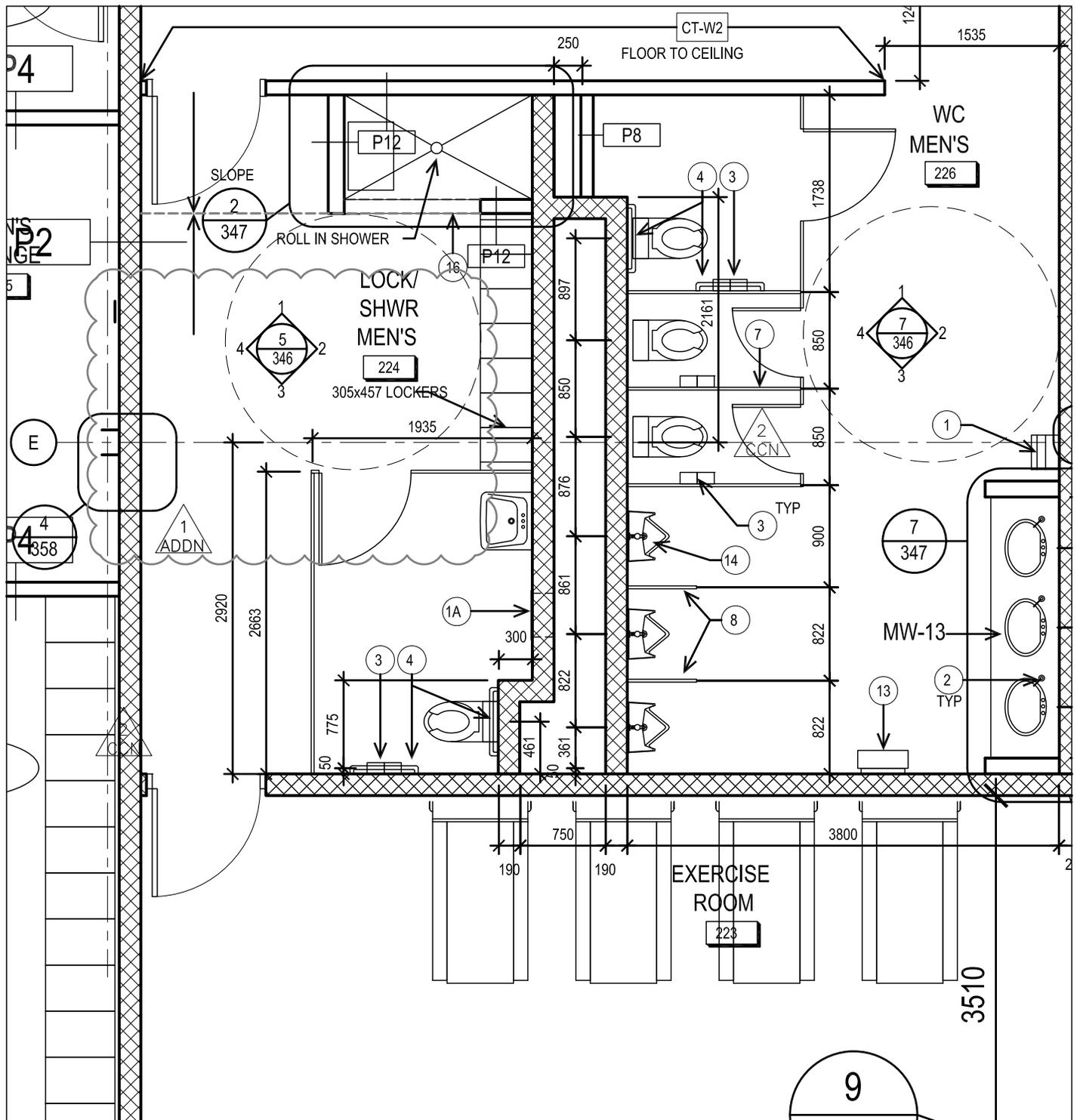
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Drawn By

LS

Drawing Number

ADDN-340-002



3 WASH-& SHOWER ROOM FLOOR PLANS 224 & 226
 345 SCALE: 1:50

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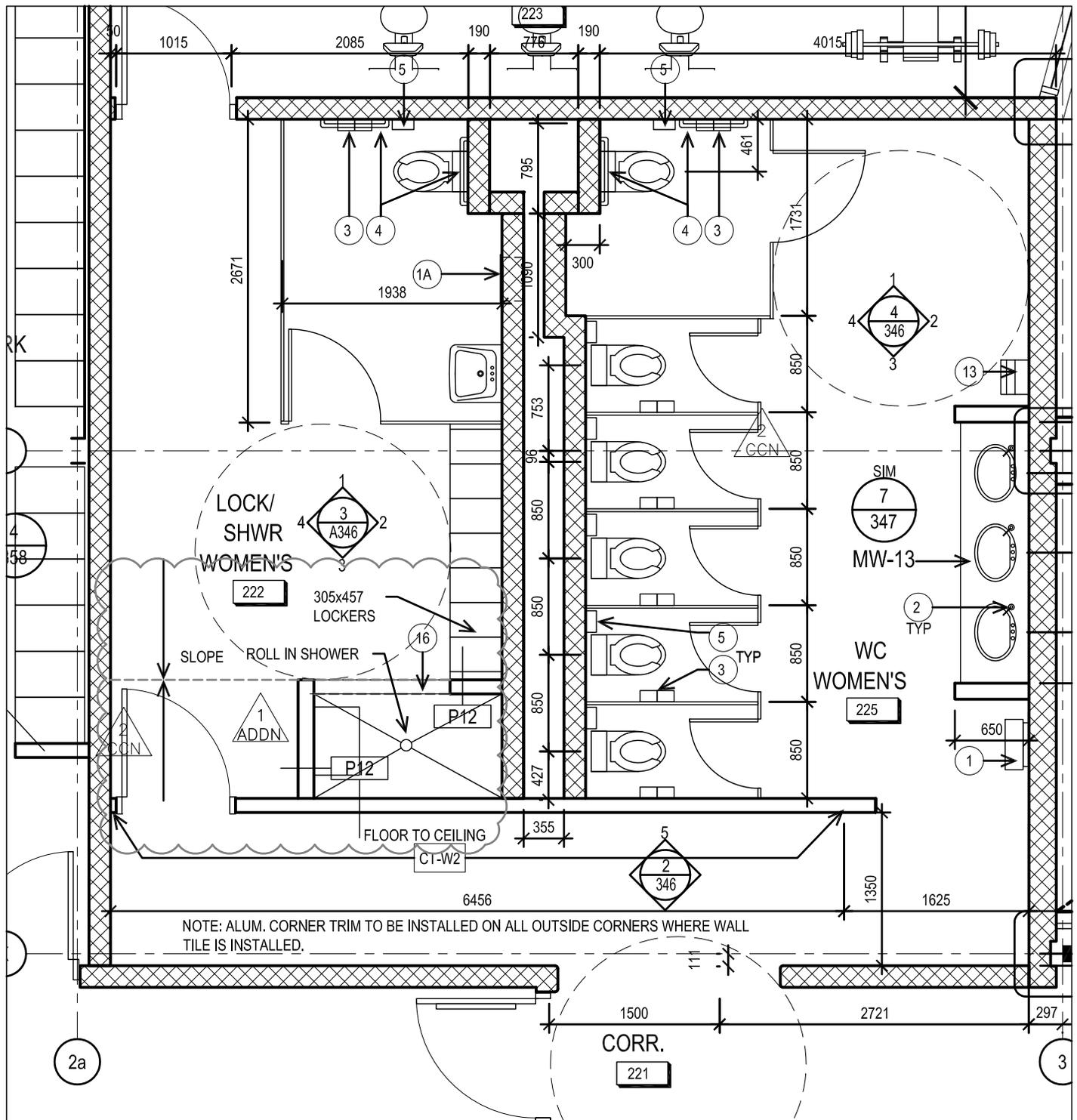
47 Clarence Street, Suite 401,
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Job Title
 HMCS-CARLETON REPLACEMENT

Drawing Description
 WASHROOM & SHOWER ROOMS

Job No. 2509
 Date May 6, 2013.
 Drawn By LS

Drawing Number
ADDN-345-001



WASH- & SHOWER ROOM FLOOR PLANS 222 & 225

4
345

SCALE: 1:50

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Job Title

HMCS-CARLETON-REPLACEMENT

Drawing Description

WASHROOM & SHOWER ROOMS

Job No.

2509

Date

May 6, 2013.

Drawn By

LS

Drawing Number

ADDN-345-002

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

1 **DRAWINGS**

1.1 **DRAWING 514 – ROOF PLAN POWER**

- .1 Provide 50mm conduit stub from Telco Room S3 (252) through roof at gridline D/10 for satellite TV cable.

1.2 **DRAWING 516 – ROOF PLAN LIGHTNING PROTECTION**

- .1 Revise specific note 2 to read:

“Down conductors shall be multi-helical smooth twisted rope and made of copper. Down conductor shall run in 25mm PVC conduit inside exterior wall of building at the nearest structural column. Provide conduit sleeve through concrete beam below grade.

1.3 **DRAWING 541 – MOTOR CONTROL SCHEDULE**

- .1 Condensing Unit CU-1: Change from 23.4 to 19.6 MCA. Change breaker to 30Amp and wiring to 3#12.

1.4 **DRAWING 542 – MOTOR CONTROL SCHEDULE**

- .1 Exhaust Fan EF-3: Change from 2hp to 1hp.
- .2 Make-up Air Unit MUA-2: Change from 5hp to 2hp.

2 **SPECIFICATION**

2.1 **SECTION 26 50 00 LIGHTING**

- .1 Item 2.2.2.1a) Delete (instant)
- .2 Item 2.2.2.2 Delete (instant)
- .3 Clarification: All fluorescent ballasts to be “**rapid start**”

END OF ELECTRICAL ADDENDUM NO. E-01