

1 **TABLE OF CONTENTS TECHNICAL SPECIFICATIONS (1/2023)**
 2 **VOLUME 2 of 7**

3
 4 Division Project No. 2111H
 5
 6 **TITLE PAGE** Pages Thru 2
 7 **TABLE OF CONTENTS** TC-6
 8
 9

10 **VOLUME 2**
 11 **DIVISION 02 – EXISTING CONDITIONS**

12 Section Title
 13 02 05 00 Common Work Results for Existing Conditions 02 05 00-4
 14 02 41 13 Demolition 02 41 13-5
 15

16 **DIVISION 03 – CONCRETE**

17 Section Title
 18 03 08 00 Commissioning of Concrete 03 08 00-10
 19 03 10 00 Concrete Formwork 03 10 00-7
 20 03 20 00 Reinforcing Steel 03 20 00-9
 21 03 30 00 Cast-In-Place Concrete 03 30 00-34
 22 03 35 00 Concrete Hardener-Sealer 03 35 00-3
 23 03 41 00 Precast Prestressed Concrete 03 41 00-9
 24

25 **DIVISION 04 – MASONRY**

26 Section Title
 27 04 08 00 Commissioning of Masonry 04 08 00-6
 28 04 20 00 Unit Masonry 04 20 00-13
 29

30 **DIVISION 05 – METALS**

31 Section Title
 32 05 05 19 Post-Installed Anchors in Concrete and Masonry (CMU) 05 05 19-9
 33 05 10 00 Structural Steel 05 10 00-16
 34 05 20 00 Steel Joists 05 20 00-5
 35 05 30 00 Metal Deck 05 30 00-8
 36 05 50 00 Metal Fabrications 05 50 00-10
 37 05 59 33 Modular Stainless Steel Countertops 05 59 33-2
 38

39 **DIVISION 06 – WOOD, PLASTICS AND COMPOSITES**

40 Section Title
 41 06 10 00 Rough Carpentry 06 10 00-7
 42 06 10 53.01 Miscellaneous Rough Carpentry – Roofing 06 10 53.01-2
 43 06 20 00 Finish Carpentry 06 20 00-4
 44 06 40 00 Architectural Woodwork 06 40 00-6
 45 06 61 00 Solid Surfacing Material Fabrications 06 61 00-3
 46

47 **DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

48 Section Title
 49 07 08 00 Commissioning of Thermal and Moisture Protection 07 08 00-17
 50 07 10 16 Waterproofing for Utilities 07 10 16-4
 51 07 21 00 Building Insulation 07 21 00-5
 52 07 27 26 Fluid Applied Membrane Air Barrier 07 27 26-9
 53 07 42 13.13 Preformed Metal Wall Panels 07 42 13.13-5
 54 07 53 23 Ethylene-Propylene-Diene-Monomer Roofing 07 53 23-17
 55 State of Wisconsin – Roofing System 5-yr Guarantee 2
 56
 57

1	07 63 00	Sheet Metal Roofing Specialties	07 63 00-7
2		State of Wisconsin – Metal Roofing/Wall Panel System 20-yr Guarantee	2
3	07 84 00	Fire Stopping	07 84 00-9
4	07 90 00	Joint Sealants	07 90 00-7
5	07 92 16	Security Sealant	07 92 16-2
6			
7		DIVISION 08 – OPENINGS	
8	Section	Title	
9	08 08 00	Commissioning of Exterior Building Envelope	08 08 00-6
10	08 11 13	Hollow Metal Doors and Frames	08 11 13-4
11	08 31 13	Access Doors & Frames	08 31 13-2
12			
13		<u>VOLUME 3</u>	
14		DIVISION 08 – OPENINGS (CONTINUED)	
15	08 41 00	Aluminum Storefront Framing Systems	08 41 00-9
16	08 70 00	Finish Hardware	08 70 00-7
17	08 71 00	Security Screws	08 71 00-2
18	08 80 00	Glass and Glazing	08 80 00-11
19	08 83 00	Mirrors	08 83 00-2
20	08 88 53	Security Glazing	08 88 53-6
21			
22		DIVISION 09 – FINISHES	
23	Section	Title	
24	09 21 16	Gypsum Board Assemblies	09 21 16-26
25	09 22 00	Drywall Ceiling Support Assemblies	09 22 00-3
26	09 30 00	Tiling	09 30 00-8
27	09 51 00	Acoustical Ceilings	09 51 00-5
28	09 57 53.33	Suspended Metal Security Panel Ceiling System	09 57 53.33-5
29	09 65 00	Resilient Flooring	09 65 00-7
30	09 65 13	Resilient Rubber Base	09 65 13-3
31	09 65 16.23	Sheet Vinyl Flooring	09 65 16.23-6
32	09 67 26	Epoxy Quartz Flooring	09 67 26-5
33	09 68 13.33	Modular flooring for Commercial Application	09 68 13.33-8
34	09 83 19	Acoustical Wall Panels	09 83 19-3
35	09 90 00	Painting and Finishing	09 90 00-12
36	09 91 16	Painting for Utilities	09 91 16-3
37	09 96 56	Epoxy Coatings	09 96 56-8
38			
39		DIVISION 10 – SPECIALTIES	
40	Section	Title	
41	10 22 26	Paired Panel Operable Partitions	10 22 26-6
42	10 26 13	Corner Guards and Handrails	10 26 13-4
43	10 26 23	Rigid Vinyl Wall Sheet Wall Protection System	10 26 23-4
44	10 28 00	Toilet Accessories	10 28 00-3
45	10 44 00	Fire Extinguishers and Cabinets	10 44 00-3
46			
47			
48		DIVISION 11 – EQUIPMENT	
49	Section	Title	
50	11 19 00	General Requirements for Detention Equipment	11 19 00-9
51	11 19 10	Detention Doors and Frames	11 19 10-11
52	11 19 15	Detention Furniture	11 19 15-2
53	11 19 20	Detention Equipment Hardware	11 19 20-8
54			
55		DIVISION 12 – FURNISHINGS	
56	Section	Title	
57	12 24 23	Manual Roller Shades	12 24 13-4

1 **VOLUME 4**

2 **DIVISION 21 – FIRE SUPPRESSION**

3	Section	Title	
4	21 05 00	Common Work Results for Fire Protection	21 05 00-11
5	21 05 29	Hangers and Supports for Fire Protection Piping and Equipment	21 05 29-5
6	21 08 00	Commissioning of Fire Protection	21 08 00-10
7	21 10 00	Water-Based Fire Protection Systems	21 10 00-9

8

9 **DIVISION 22 – PLUMBING**

10	Section	Title	
11	22 05 00	Common Work Results for Plumbing	22 05 00-11
12	22 05 13	Common Motor Requirements for Plumbing	22 05 13-2
13	22 05 14	Plumbing Specialties	22 05 14-5
14	22 05 15	Piping Specialties	22 05 15-4
15	22 05 23	General Duty Valves for Plumbing Piping	22 05 23-4
16	22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 05 29-5
17	22 07 00	Plumbing Insulation	22 07 00-7
18	22 08 00	Commissioning of Plumbing	22 08 00-46
19	22 11 00	Facility Water Distribution	22 11 00-8
20	22 13 00	Facility Sanitary Sewerage	22 13 00-7
21	22 14 00	Facility Storm Drainage	22 14 00-8
22	22 30 00	Plumbing Equipment	22 30 00-5
23	22 42 00	Commercial Plumbing Fixtures	22 42 00-5
24	22 60 00	Gas and Vacuum Systems for Laboratories and Healthcare Facilities	22 60 00-7

25

26 **DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING**

27	Section	Title	
28	23 01 30.51	HVAC Air Duct Cleaning	23 01 30.51-4
29	23 05 00	Common Work Results for HVAC	23 05 00-7
30	23 05 13	Common Motor Requirements for HVAC Equipment	23 05 13-3
31	23 05 14	Variable Frequency Drives	23 05 14-7
32	23 05 15	Piping Specialties	23 05 15-4
33	23 05 23	General Duty Valves for HVAC	23 05 23-3
34	23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 05 29-6
35	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment	23 05 48-5
36	23 05 93	Testing, Adjusting and Balancing for HVAC	23 05 93-5
37	23 07 00	HVAC Insulation	23 07 00-10

38

39 **VOLUME 5**

40 **DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING (CONTINUED)**

41	23 08 00	Commissioning of HVAC	23 08 00-132
42	23 09 14	Pneumatic and Electric Controls	23 09 14-18
43	23 09 15	Direct Digital Control Input/Output Point Summary Tables	23 09 15-3
44	23 09 24	Direct Digital Control System for HVAC (Informational Purposes Only)	23 09 24-14
45	23 09 93	Sequence of Operation for HVAC Controls	23 09 93-13
46	23 21 13	Hydronic Piping	23 21 13-10
47	23 21 23	Hydronic Pumps	23 21 23-3
48	23 23 00	Refrigerant Piping	23 23 00-3
49	23 25 00	HVAC Water Treatment	23 25 00-5
50	23 31 00	HVAC Ducts and Casings	23 31 00-7
51	23 33 00	Air Duct Accessories	23 33 00-6
52	23 34 00	HVAC Fans	23 34 00-3
53	23 36 00	Air Terminal Units	23 36 00-5
54	23 37 13	Diffusers, Registers and Grilles	23 37 13-3
55	23 41 00	Particulate Air Filtration	23 41 00-3
56	23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condensing Units	23 62 13-5
57	23 72 00	Air-To-Air Energy Recovery Equipment	23 72 00-4

1	23 73 12	Air Handling Unit Coils	23 73 12-3
2	23 73 13	Modular Indoor Central-Station Air-Handling Units	23 73 13-6
3	23 81 26	Split-System Ductless Air Conditioners	23 81 26-6
4	23 82 00	Heating and Cooling Terminal Units	23 82 00-4
5			
6	<u>VOLUME 6</u>		
7	DIVISION 26 – ELECTRICAL		
8	Section	Title	
9	26 05 00	Common Work Results for Electrical	26 05 00-8
10	26 05 02	Electrical Demolition for Remodeling	26 05 02-4
11	26 05 04	Cleaning, Inspection and Testing of Electrical Equipment	26 05 04-2
12	26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 19-5
13	26 05 26	Grounding and Bonding for Electrical Systems	26 05 26-5
14	26 05 29	Hangers and Supports for Electrical Systems	26 05 29-4
15	26 05 33	Raceway and Boxes for Electrical Systems	26 05 33-10
16	26 05 53	Identification for Electrical Systems	26 05 53-3
17	26 09 28	Lighting Control Panels	26 09 28-8
18	26 24 16	Panelboards	26 24 16-4
19	26 27 26	Wiring Devices	26 27 26-8
20	26 27 28	Disconnect Switches	26 27 28-2
21	26 51 13	Interior Lighting Fixtures, Lamps, And Ballasts	26 51 13-6
22			
23	DIVISION 27 – COMMUNICATIONS		
24	Section	Title	
25	27 05 53	Identification for Communication Systems	27 05 53-7
26	27 08 00	Commissioning of Communications	27 08 00-20
27	27 10 00	Structured Cabling	27 10 00-33
28	27 11 00	Communications Room Equipment Fittings	27 11 00-6
29	27 11 13	Communications Protections	27 11 13-4
30	27 16 19	Communications Patch Cords, Station Cords and Cross-Connect Wire	27 16 19-4
31	27 41 34	Wideband Video Distribution System	27 41 34-5
32	27 52 23	Nurse Call – Visual System with Tone	27 52 23-5
33			
34	DIVISION 28 – ELECTRONIC SAFETY AND SECURITY		
35	Section	Title	
36	28 08 00	Commissioning of Electronic Safety and Security	28 08 00-17
37	28 23 00	Video Surveillance System	28 23 00-9
38	28 31 00	Fire Detection and Alarm	28 31 00-21
39	28 50 10	Security-Paging-Duress-Electronic Monitoring	28 50 10-43
40			
41	<u>VOLUME 7</u>		
42	DIVISION 30 – COMMON WORK RESULTS FOR ALL EXTERIOR WORK		
43	Section	Title	
44	30 05 00	Common Work Results for All Exterior Work	30 05 00-5
45			
46	DIVISION 31 – EARTHWORK		
47	Section	Title	
48	31 00 00	Earthwork for Building	31 00 00-20
49	31 20 00	Earthmoving	31 20 00-5
50	31 23 16.13	Trenching	31 23 16.13-9
51	31 23 19	Dewatering	31 23 19-3
52	31 25 00	Erosion Control	31 25 00-4
53			
54	DIVISION 32 – EXTERIOR IMPROVEMENTS		
55	Section	Title	
56	32 11 23.33	Dense Graded Base	32 11 23.33-3
57			

1	DIVISION 33 – UTILITIES	
2	Section Title	
3	33 11 00 Water Utility Distribution Piping	33 11 00-12
4	33 40 00 Storm Drainage Utilities	33 40 00-10
5		
6	<u>DRAWINGS – Bound Separately</u>	
7		
8	GENERAL	Sheet No.
9	COVER SHEET / INDEX	G101
10	SYMBOLS & ABBREVIATIONS	G102
11	WALL TYPES & ASSEMBLIES	G103
12	LIFE SAFETY PLAN / CODE REVIEW	G104
13		
14	CIVIL	Sheet No.
15	PROJECT LOCATION AND GENERAL NOTES	C110
16	EXISTING SURVEY	C111
17	EROSION CONTROL PLAN	C120
18	DEMOLITION PLAN	C130
19	SITE PLAN	C140
20	GRADING PLAN	C150
21	CONSTRUCTION DETAILS	C500
22	ARCHITECTURAL	Sheet No.
23	ARCHITECTURAL SITE PLAN	A001
24	CONSTRUCTION SITE PLAN	A002
25	OVERALL FLOOR PLANS	A101
26	DEMOLITION FLOOR PLANS	A102
27	RHU - RESTRICTIVE HOUSING UNIT FLOOR PLAN	A103
28	HSU - HEALTH SERVICES UNIT FLOOR PLANS	A104
29	HSU ROOF PLAN	A105
30	REFLECTED CEILING PLANS	A301
31	HSU EXTERIOR ELEVATIONS	A401
32	BUILDING SECTIONS	A501
33	WALL SECTIONS	A502
34	WALL SECTIONS	A503
35	WALL SECTIONS	A504
36	WALL SECTIONS	A505
37	ENLARGED FLOOR PLANS	A601
38	INTERIOR ELEVATIONS	A701
39	DETAILS – EXTERIOR	A801
40	DETAILS – INTERIOR	A802
41	DETAILS – CASEWORK	A803
42	DETAILS – DETENTION	A804
43	BUILDERS DOOR AND FRAME SCHEDULES AND TYPES	A901
44	DETENTION DOOR AND FRAME SCHEDULES AND TYPES	A902
45	COLOR & MATERIAL SCHEDULE, ROOM FINISH SCHEDULE	A1001
46	FINISH PLANS	A1002
47	FURNITURE PLANS (FOR REFERENCE ONLY)	A1003
48		
49	STRUCTURAL	Sheet No.
50	FOUNDATION PLAN - HSU	S100
51	FOUNDATION PLAN / FRAMING PLAN - RHU	S101
52	PENTHOUSE ROOF / LOW ROOF / FLOOR FRAMING PLANS	S103
53	DETAILS	S500
54	DETAILS	S510
55	DETAILS	S520
56	GENERAL NOTES & SCHEDULES	S900
57	SCHEDULES	S901

1	FIRE PROTECTION	Sheet No.
2	FIRST FLOOR AND PENTHOUSE FIRE PROTECTION PLANS	FP110
3		
4	PLUMBING	Sheet No.
5	PLUMBING DEMOLITION PLANS - RHU	PD100
6	PLUMBING NEW WORK PLANS - RHU	P100
7	FOUNDATION AND FIRST FLOOR PLUMBING PLANS - HSU	P110
8	PENTHOUSE AND ROOF PLUMBING PLANS	P111
9	WASTE & VENT AND STORM PIPING ISOMETRICS	P120
10	WATER PIPING ISOMETRICS	P121
11		
12	MECHANICAL	Sheet No.
13	MECHANICAL SYMBOLS AND ABBREVIATIONS	M001
14	MECHANICAL OVERALL FIRST FLOOR PLAN	M100
15	MECHANICAL OVERALL PENTHOUSE PLAN	M101
16	MECHANICAL RESTRICTIVE HOUSING UNIT DEMOLITION PLANS	M102
17	MECHANICAL RESTRICTIVE HOUSING UNIT NEW PLANS	M103
18	MECHANICAL DUCTWORK HEALTH SERVICES UNIT PLAN	M104
19	MECHANICAL PIPING HEALTH SERVICES UNIT PLAN	M105
20	MECHANICAL HEALTH SERVICES UNIT PENTHOUSE PLAN	M106
21	MECHANICAL DETAILS	M501
22	MECHANICAL DETAILS	M502
23	MECHANICAL SCHEDULES	M601
24	MECHANICAL SCHEDULES	M602
25		
26	ELECTRICAL	Sheet No.
27	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES	E000
28	RHU – RESTRICTIVE HOUSING UNIT LIGHTING PLANS	E103
29	HSU – FIRST FLOOR / PENTHOUSE LIGHTING PLANS	E104
30	RHU – RESTRICTIVE HOUSING UNIT POWER PLAN	E203
31	HSU – FIRST FLOOR / PENTHOUSE POWER PLANS	E204
32	LIGHTING SCHEDULES	E500
33	ELECTRICAL SCHEDULES	E501
34	POWER DETAILS	E601
35	ELECTRICAL RISER DIAGRAM	E800
36		
37	FIRE ALARM	Sheet No.
38	RHU – RESTRICTIVE HOUSING UNIT FIRE ALARM PLANS	FA103
39	HSU – FIRST FLOOR / PENTHOUSE FIRE ALARM PLANS	FA104
40	FIRE ALARM DETAILS	FA601
41		
42	TELECOMMUNICATION	Sheet No.
43	RHU – RESTRICTIVE HOUSING UNIT TELECOMMUNICATIONS, DATA, AND	
44	SECURITY PLAN	Q103
45	HSU – FIRST FLOOR / PENTHOUSE TELECOMMUNICATIONS, DATA, AND	
46	SECURITY PLAN	Q104
47	TELECOMMUNICATIONS AND LOW VOLTAGE DETAILS	Q601
48	BACKBONE	Q602
49	NEW TR ROOM HSU	Q603
50	EMERGENCY PAGING AND SECURITY CONTROL RISER DIAGRAM - HSU	Q604
51	EMERGENCY PAGING AND SECURITY CONTROL RISER DIAGRAM - RH	Q605
52	NURSE CALL CONNECTION DIAGRAM	Q606
53	CAMERAS & SCHEDULE	Q607
54	FIRST FLOOR REFERENCE SHEET	Q608
55	SECOND FLOOR REFERENCE SHEET	Q609
56		
57		