MSCR WEST RECREATION CENTER EXPANSION

SITE LOCATION MAP



7333 W TOWNE WAY
MADISON, WISCONSIN 53719

PROJECT DIRECTORY

ARCHITECTURE & ENGINEERING
ICONICA, INC.
901 DEMING WAY
MADISON, WISCONSIN 53717
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OWNER
MADISON METROPOLITAN SCHOOL DISCRTICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

CIVIL AND LANDSCAPE ENGINEERING
JT ENGINEERING - MADISON OFFICE
281 W. NETHERWOOD ROAD, SUITE 1
OREGON, WISCONSIN 53575
PHONE: (608) 204-0909

AQUATIC ENGINEERING
WTI
100 PARK AVENUE
BEAVER DAM, WISCONSIN 53916
PHONE: (920) 887-7375



BUILDING CODE

BUILDING DESIGN CRITERIA

Wisconsin Existing Building Code (2021 with effective Wisconsin ammendments)
Wisconsin Commercial Building Code (2021 with effective Wisconsin ammendments) and ANSI A117.1-2017

EXISTING BUILDING INFORMATION

1. Occupancy Type: Non-Seperated Occupancy
   Assembly Group A-3
   Business Group B

2. Construction Type: IIB

3. Building Area: Actual Area:
   Building A: 30,800 GSF / Allowed 38,000 GSF
   Building B: 25,100 GSF / Allowed 38,000 GSF

   Building A + Building B = 55,900 GSF > 38,000 GSF allowable by Type IIB, Sprinklered, A-3 occupancy.
   2 HR Fire wall and 90 min rated doors required at openings in building separation.

4. Protected Elements: As determined by tabular values (Tables 601 & 602)
   Structural frame 0 hr
   Floor Construction 0 hr
   Roof Construction 0 hr

5. Fire Protection System: NFPA 13 Sprinkler System

6. Fire Extinguishers: Type: 2A
   Distance to Extinguisher: 75'
   Floor Area / Extinguisher: 11,250 sq. ft.
   Minimum Rating: Class B

7. Means of Egress: Egress sizing - .2" per occupant (1005.3.2)
   Distribution - 50% capacity must be provided if 1 exit is lost (1005.5)
   Common Path of Egress Travel: Group A-3 = 75', Group B = 100' (1006.2.1)
   Two exit access doorways are required in boiler, incinerator and furnace rooms (1006.2.2.1)
   Min. Number of Exits - 501-1000 = 3 (1006.3.3)
   Panic Hardware required per (1010.2.9)
   Exit Access Travel Distance: Group A - 250' (1017.2)
   Min. Corridor Width: 44" (1020.3)
   50' Maximum dead end corridor (1020.5)

8. Toilet Facilities:

Building A (500 occupants total):

	WC Req. / Provided	Lav. Req. / Provided
Mens (1/2 total of 500 = 250)	2/2	2/3
Womens (1/2 total of 500 = 250)	4/4	2/3
Total Number of Fixtures:	6/6	4/6

Building B (570 occupants total):

Pool:

	WC Req. / Provided	Lav. Req. / Provided
Mens (1/2 total of 182 = 91)	2/2	1/4
Women (1/2 total of 182 = 91)	3/3	1/4
Total Number of Fixtures:	5/5	2/8

Assembly:

	WC Req. / Provided	Lav. Req. / Provided
Mens (1/2 total of 388 = 194)	2/2	1/1
Women (1/2 total of 388 = 194)	3/3	1/3
Total Number of Fixtures:	5/5	2/4

9. Drinking Fountains: 1 per 500 occ. required per Table 2902.1 - 3 Req./7 Provided

SHEET INDEX

Bid Package #1: 04-03-26 CURRENT REVISION	SHEET #	SHEET TITLE
General		
B1A1	A001	COVER SHEET
Code		
BP1	A011	ADA CLEARANCES
BP1	A012	FIRST FLOOR CODE PLAN
Civil		
BP1	G100	SPECIFICATIONS
BP1	G101	SPECIFICATIONS
BP1	G102	SPECIFICATIONS & GENERAL NOTES
BP1	C001	EXISTING CONDITIONS
BP1	C002	DEMOLITION PLAN
BP1	C100	SITE OVERVIEW, UTILITY PLAN, EROSION CONTROL PLAN
BP1	C500	CONSTRUCTION DETAILS
BP1	C501	CONSTRUCTION DETAILS
Landscape		
BP1	L100	LANDSCAPE PLAN
Architectural		
BP1	AD201	FIRST FLOOR EXPANSION - DEMO FLOOR PLAN
BP1	AD203	EXPANSION - DEMO ROOF PLAN
BP1	AD801	FIRST FLOOR EXPANSION - DEMO REFLECTED CEILING PLAN
B1A1	A201	FIRST FLOOR EXPANSION - FLOOR PLAN
BP1	A201FS	CONCRETE FLOOR SLOPING PLAN
BP1	A202	FIRST FLOOR EXPANSION - STRIPING PLAN
BP1	A203	EXPANSION - ROOF PLAN
BP1	A301	EXISTING EXPANSION BUILDING ELEVATIONS
BP1	A302	EXPANSION BUILDING ELEVATIONS
B1A1	A303	EXPANSION BUILDING ELEVATIONS
BP1	A400	BUILDING SECTIONS
BP1	A401	BUILDING SECTIONS
BP1	A410	WALL SECTIONS
BP1	A411	WALL SECTIONS
BP1	A510	SECTION DETAILS
BP1	A511	SECTION DETAILS
BP1	A512	SECTION DETAILS
BP1	A513	PLAN DETAILS
BP1	A514	PLAN DETAILS
BP1	A540	ROOF DETAILS
BP1	A630	INTERIOR DETAILS & SECTIONS
BP1	A631	GYMNASIUM ELEVATIONS
B1A1	A632	POOL ELEVATIONS
B1A1	A633	ENLARGED PLANS & ELEVATIONS - LOCKER ROOMS
B1A1	A634	ENLARGED PLANS & ELEVATIONS - LOCKER ROOMS & RESTROOMS
BP1	A635	ENLARGED PLANS & ELEVATIONS - CORRIDOR 101
BP1	A636	ENLARGED PLANS & ELEVATIONS - CORRIDOR 102
BP1	A637	ENLARGED PLANS & ELEVATIONS - CORRIDOR 102
B1A1	A638	ENLARGED PLAN & ELEVATIONS - CORRIDOR 102 & RAMP 103

SHEET INDEX

Bid Package #1: 04-03-26 CURRENT REVISION	SHEET #	SHEET TITLE
B1A1	A639	ENLARGED PLANS & ELEVATIONS - LOUNGE 109
BP1	A640	ENLARGED PLANS & ELEVATIONS - LOUNGE 110 & 111
B1A1	A641	ENLARGED PLANS & ELEVATIONS - PLAY AREA 112
BP1	A642	ENLARGED PLANS & ELEVATIONS - PLAY AREA 112
BP1	A643	ENLARGED PLANS & ELEVATIONS - PLAY AREA 112 - DETAILS
B1A1	A644	ENLARGED PLANS & ELEVATIONS - BREAK ROOM 114
B1A1	A645	MURALS
B1A1	A646	ENLARGED PLANS & ELEVATIONS - GYMNASIUM E106 <B1A1>
BP1	A700	WALL PARTITIONS
B1A1	A710	HOLLOW METAL AND STOREFRONT WINDOW SCHEDULES
B1A1	A711	DOOR AND HARDWARE SCHEDULES
B1A1	A801	FIRST FLOOR EXPANSION - REFLECTED CEILING PLAN
Interior		
BP1	I201	FIRST FLOOR EXPANSION - FINISH PLAN OVERALL
B1A1	I202	FIRST FLOOR EXPANSION - FINISH PLAN - POOL & LOCKER ROOM AREA
BP1	I203	FIRST FLOOR - FINISH PLAN
B1A1	I210	FIRST FLOOR EXPANSION - FINISH SCHEDULE
Structural		
BP1	S001	STRUCTURAL GENERAL NOTES
B1A1	S002	STRUCTURAL GENERAL NOTES
BP1	S003	SPECIAL INSPECTIONS
B1A1	S101	FOUNDATION PLAN
BP1	S201	COLD FORMED FRAMING PLAN
BP1	S202	ROOF FRAMING PLANS
BP1	S301	FOUNDATION DETAILS
BP1	S302	FOUNDATION DETAILS
B1A1	S501	STEEL FRAMING DETAILS
BP1	S800	COLD FORMED FRAMING DETAILS
BP1	S801	COLD FORMED FRAMING DETAILS AT SKYLIGHT
Fire Protection		
B1A1	FP201	FIRST FLOOR EXPANSION - FLOOR PLAN
BP1	FPD201	FIRST FLOOR EXPANSION - DEMO FLOOR PLAN
Plumbing		
BP1	P001	ABBREVIATIONS, SYMBOLS AND NOTES
BP1	PD201	FIRST FLOOR EXPANSION - DEMO FLOOR PLAN
B1A1	P100	FIRST FLOOR EXPANSION - UNDERGROUND
BP1	P101	FIRST FLOOR EXPANSION - POOL DECK DRAIN UNDERGROUND
B1A1	P201	FIRST FLOOR EXPANSION - FLOOR PLAN
BP1	P203	EXPANSION - ROOF PLAN
BP1	P501	PLUMBING DETAILS
BP1	P601	PLUMBING ELEVATIONS
BP1	P602	ENLARGED MECHANICAL ROOM
B1A1	P701	SCHEDULES
BP1	P901	RISER DIAGRAMS - SANITARY & STORM
BP1	P902	RISER DIAGRAM - POOL DECK DRAIN
BP1	P903	RISER DIAGRAM - WATER SUPPLY RISER

SHEET INDEX

Bid Package #1: 04-03-26 CURRENT REVISION	SHEET #	SHEET TITLE
Mechanical		
B1A1	M001	ABBREVIATIONS, SYMBOLS AND NOTES
BP1	MD201	FIRST FLOOR EXPANSION - DEMO FLOOR PLAN
BP1	MD203	EXPANSION - DEMO ROOF PLAN
BP1	M201	FIRST FLOOR EXPANSION - FLOOR PLAN
B1A1	M202	FIRST FLOOR PLAN - GYMNASIUM E106 <B1A1>
BP1	M203	EXPANSION - ROOF PLAN
BP1	M501	MECHANICAL DETAILS
BP1	M502	MECHANICAL DETAILS
BP1	M503	MECHANICAL DETAILS
BP1	M601	MECHANICAL CONTROL DIAGRAMS
BP1	M602	MECHANICAL CONTROL DIAGRAMS
B1A1	M603	MECHANICAL CONTROL DIAGRAMS
BP1	M604	MECHANICAL CONTROL DIAGRAMS
BP1	M605	MECHANICAL CONTROL DIAGRAMS
B1A1	M701	MECHANICAL SCHEDULES
BP1	M901	MECHANICAL ISOMETRIC
Electrical		
BP1	E001	ABBREVIATIONS, SYMBOLS AND NOTES
BP1	ED201	FIRST FLOOR EXPANSION - DEMO FLOOR PLAN
BP1	ED203	EXPANSION - DEMO ROOF PLAN
B1A1	E100	ELECTRICAL SITE PLAN
B1A1	E201	FIRST FLOOR OVERALL
B1A1	E201L	FIRST FLOOR EXPANSION - LIGHTING PLAN
B1A1	E201P	FIRST FLOOR EXPANSION - POWER PLAN
BP1	E203	EXPANSION - ROOF PLAN
BP1	E501	ELECTRICAL DETAILS
BP1	E502	HEAT TRACE DETAILS (ALT)
B1A1	E701	ELECTRICAL SCHEDULES
BP1	E702	ELECTRICAL SCHEDULES
Aquatics		
B1A1	PL100	OVERALL AQUATIC PLAN
B1A1	PL101	GENERAL DETAILS AND SCHEDULES
B1A1	PL110	POOL A - LAP POOL PLAN
B1A1	PL111	POOL A - LAP POOL DIMENSION PLAN
B1A1	PL112	POOL A - LAP POOL SECTIONS
B1A1	PL113	POOL A - LAP POOL SECTIONS AND DETAILS
BP1	PL114	POOL A - LAP POOL DETAILS
B1A1	PL115	POOL A - LAP POOL DETAILS - ALTERNATE
BP1	PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
BP1	PL210	STRUCTURAL GENERAL DETAILS
BP1	PL211	STRUCTURAL DETAILS
BP1	PL300	OVERALL PIPING PLAN
BP1	PL301	MECHANICAL NOTES
BP1	PL400	MECHANICAL EQUIPMENT PLAN
B1A1	PL401	MECHANICAL EQUIPMENT SCHEDULES
BP1	PL402	MECHANICAL DETAILS
BP1	PL403	MECHANICAL DETAILS
BP1	PL404	MECHANICAL DETAILS
BP1	PL510	POOL A MECHANICAL SCHEMATIC
BP1	PL511	POOL A ELECTRICAL SCHEMATIC

ALTERNATE DESCRIPTION

- ALTERNATE #PL01: PROVIDE TILE IN POOL BASIN IN LIEU OF QUARTZ AGGREGATE.
- ALTERNATE #PL02: ADD POOL HEATER HEAT PUMP SYSTEM. ADD EQUIPMENT INCLUDING CONDENSING UNITS, PUMPS, STORAGE TANKS, PIPING, PIPING SUPPORTS, THERMOMETERS, GAUGES, PIPE INSULATION/JACKETING, HEAT TRACE (BY EC) AND EQUIPMENT PAD (BY GC). EC TO PROVIDE BREAKERS, DISCONNECTS, CONDUIT AND WIRING SERVING H2A, H3A, H4A AND ALL HEAT TRACE EQUIPMENT FOR THIS EQUIPMENT.
- ALTERNATE #P01: ADD WATER HEATER HEAT PUMP SYSTEM. ADD EQUIPMENT INCLUDING CONDENSING UNITS, PUMPS, STORAGE TANKS, PIPING, PIPING SUPPORTS, THERMOMETERS, GAUGES, PIPE INSULATION/JACKETING, HEAT TRACE (BY EC) SCREEN WALL AND EQUIPMENT PAD (BY GC). EC TO PROVIDE BREAKERS, DISCONNECTS, CONDUIT, AND WIRING SERVING WHP-1,2,3 AND HPP-1,2,3 AND ALL HEAT TRACE FOR THIS EQUIPMENT.
- ALTERNATE #M01: REMOVE POOL WATER CONDENSER ENERGY RECOVERY FROM POOL DEHUMIDIFICATION UNIT (PDU-1). REMOVE ASSOCIATED PUMP (P-1), HYDRONIC PIPING, PIPE SPECIALTIES, HANGERS AND SUPPORTS, INSULATION, AND HEAT TRACE. EC TO REMOVE BREAKERS, CONDUIT, AND WIRING SERVING P-1 AND ALL HEAT TRACE EQUIPMENT.
- ALTERNATE #M02: REMOVE DUAL FUEL AIR SOURCE HEAT PUMP ROOFTOP EQUIPMENT (RTU-1, RTU-2, RTU-3, AND DOAS-1) AND REPLACE WITH ELECTRIC COOLING/GAS HEAT ONLY EQUIVALENT.
- ALTERNATE #M03: REMOVE FACTORY INSTALLED BACNET CONTROLS FROM RTU-1, RTU-2, RTU-3, DOAS-1, MAU-1 AND REPLACE WITH FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR.
- ALTERNATE #E01: SHIFT LIGHTS IN EXISTING MEDIUM STUDIO TO ACCOMMODATE REMOVED STORAGE ROOM TO ACCOMODATE NEW CORRIDOR 101.

<B1A1>

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ISSUE DATES:

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B1A1	BP#1 ADD#1	05-15-26

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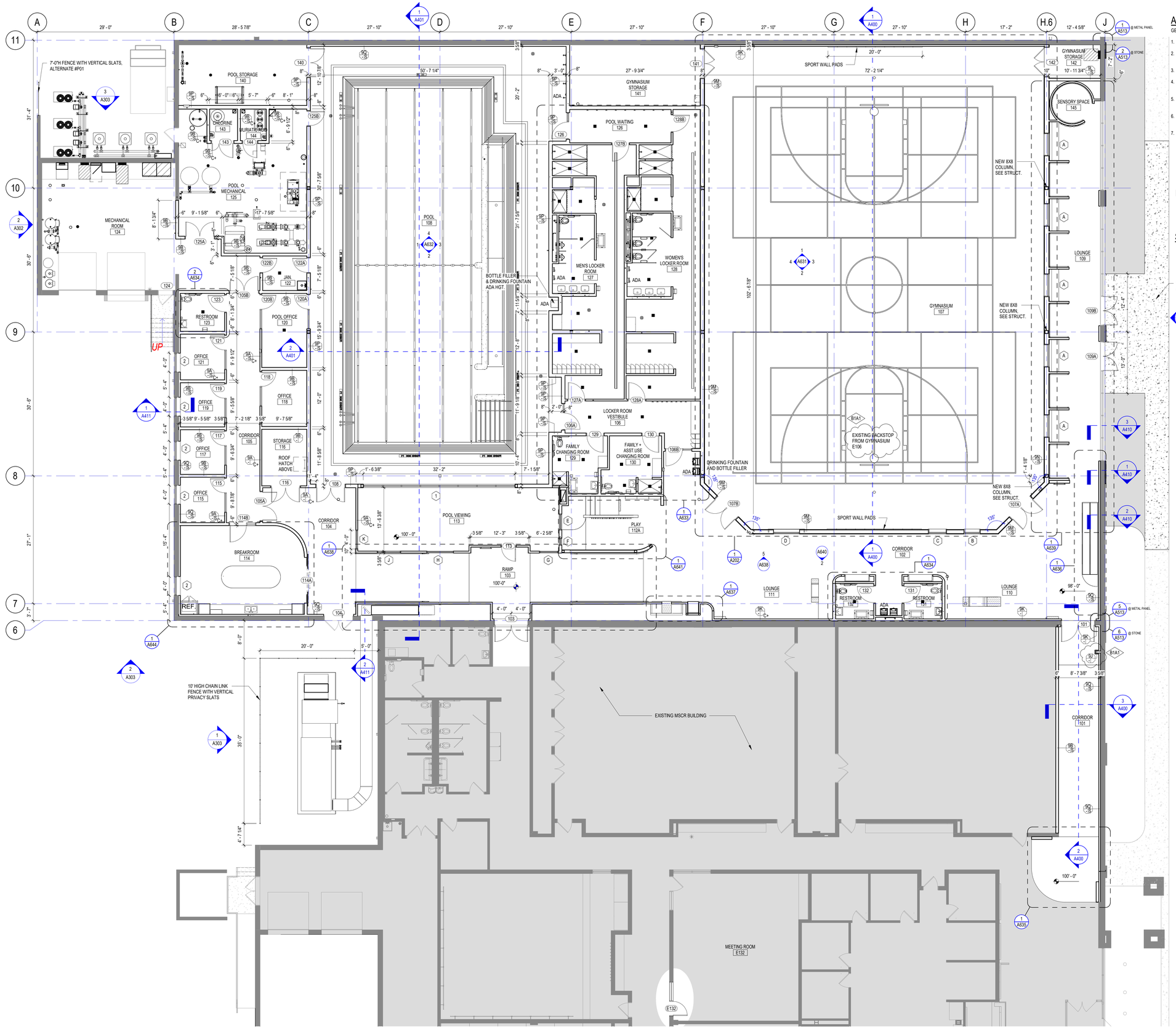
Sheet Title
COVER SHEET

Project Number: 20250550

Sheet Number
A001

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FIRST FLOOR EXPANSION - FLOOR PLAN

SCALE: 1/8" = 1'-0"

ARCHITECTURAL GENERAL NOTES:

GENERAL NOTES APPLY TO ALL SHEETS.

1. SEE CODE DRAWINGS FOR LOCATION OF WALLS OF FIRE-RESISTIVE CONSTRUCTION.
2. ALL INTERIOR DIMENSIONS TO WALL CONSTRUCTION ARE TO FACE OF STUD OR CMU TYPICAL.
3. DIMENSIONS FOR DOOR AND WINDOW OPENINGS ARE TO ROUGH OPENING.
4. HOLLOW METAL DOOR ROUGH OPENINGS ARE INDICATED DOOR WIDTH PLUS 2" FRAME EACH SIDE PLUS 1/4" EACH SIDE.
5. WALL TYPES SHALL BE DESIGNATED ON FLOOR PLANS. SEE SHEET A700 FOR WALL TYPES AND GENERAL NOTES.
6. EXTERIOR STOREFRONT SHALL BE DESIGNATED ON FLOOR PLANS. SEE SHEET A710 FOR DETAILS.
7. CARPENTER SHALL FURNISH AND INSTALL FIRE RETARDANT WOOD BLOCKING IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, FINISH PLYWOOD, WALL MOUNTED FIXTURES, ETC.

- EXISTING WALL TO REMAIN
- NEW CONSTRUCTION

SYMBOL / ANNOTATION LEGEND:

- BUILDING ELEVATION (VIEW NUMBER / SHEET NUMBER)
- INTERIOR ELEVATION (VIEW NUMBER / SHEET NUMBER)
- BUILDING SECTION (VIEW NUMBER / SHEET NUMBER)
- WALL / DETAIL SECTION (VIEW NUMBER / SHEET NUMBER)
- DETAIL CALLOUT (VIEW NUMBER / SHEET NUMBER)
- WALL / PARTITION TYPE TAG (PARTITION TYPE; SOUND WALL INDICATOR (IF APPLICABLE); WALL RATING IN HRS (IF APPLICABLE))
- PARTIAL HEIGHT PARTITION TYPE TAG (PARTITION TYPE; FINISHED WALL HEIGHT (ABOVE FINISHED FLOOR))
- WINDOW TYPE TAG
- STOREFRONT TYPE TAG
- DOOR TAG
- REVISION NUMBER AND CLOUD
- DIMENSION TO FACE / EDGE
- DIMENSION TO GRIDLINE

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FIRST FLOOR EXPANSION - FLOOR PLAN

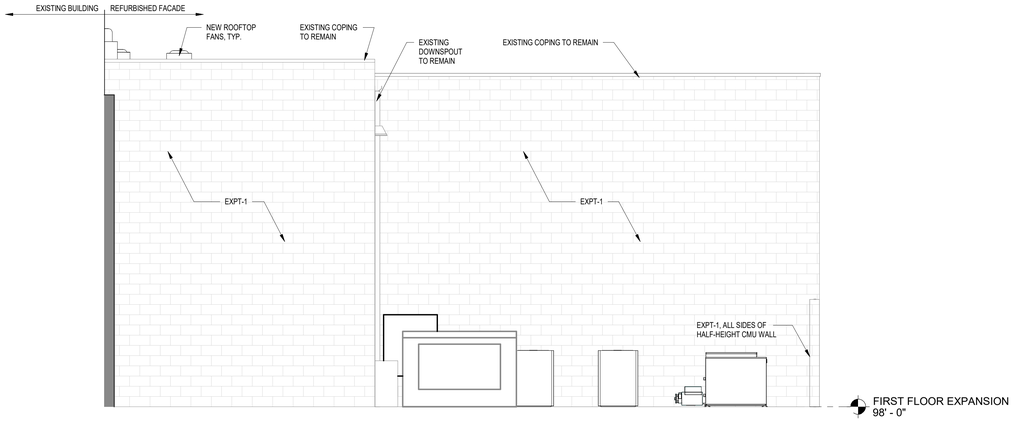
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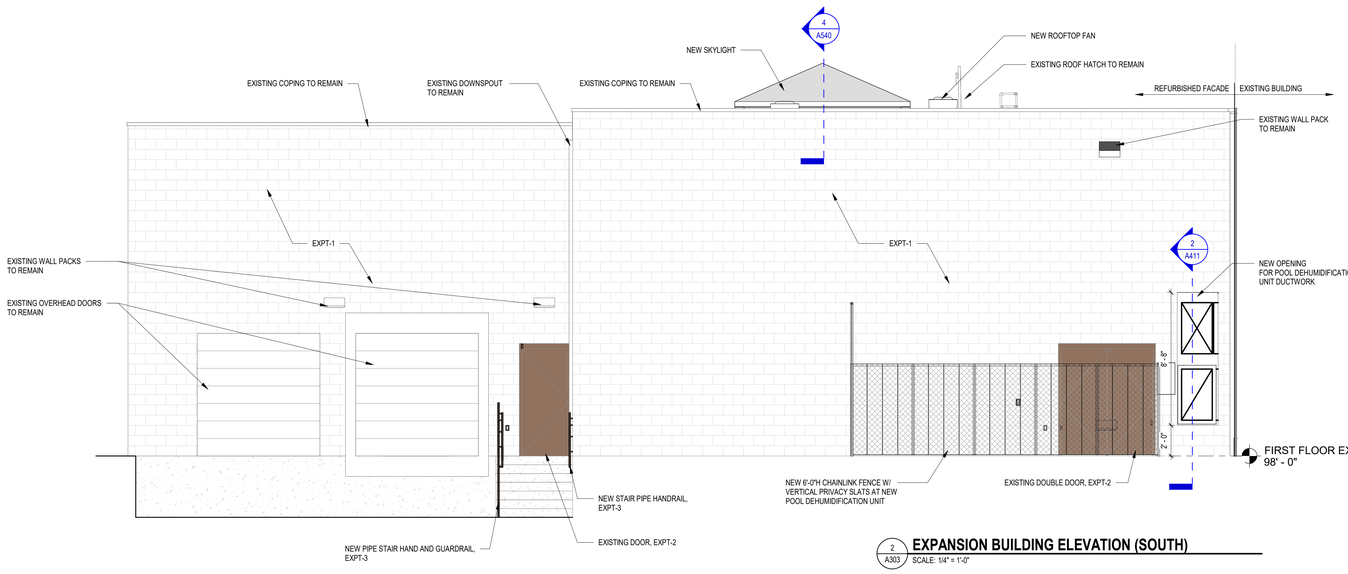
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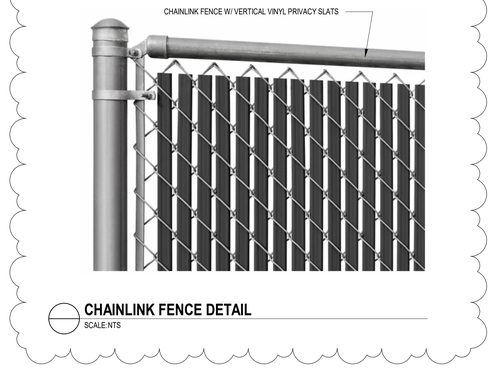
EXTERIOR MATERIAL LEGEND			
HATCH		COLOR	REMARKS
	NATURAL THIN STONE VENEER, ST-1	HALQUIST STONE BLEND COLLECTION COLOR PROFILE - KINGSTON	RAKED JOINTS MORTAR COLOR: DARK BROWN
	CAST STONE, CS-1	2 1/4" LIMESTONE CAP, SEE 2/A510 FOR PROFILE	
	SPLITFACE CMU PAINT COLOR, EXPT-1	16" X 8" CONCRETE MASONRY UNIT (EXISTING) PAINT COLOR: SW 6088 NUTHATCH	
	METAL PANEL COLOR - 1, MP-1	AMC METAL PANEL SYSTEM 2000 CONCEALED FASTENERS COLOR: PUEBLO TAN	COORDINATING TRIM & REVEAL COLOR: SIERRA TAN
	METAL PANEL COLOR - 2, MP-2	AMC METAL PANEL SYSTEM 2000 CONCEALED FASTENERS COLOR: OYSTER WHITE	COORDINATING TRIM & REVEAL COLOR: ALMOND
	HOLLOW METAL DOOR, EXPT-2	HOLLOW METAL DOOR AND FRAME (EXISTING) PAINT COLOR: SW 6088 NUTHATCH	
	STAIR RAILING, EXPT-3	METAL STAIR RAILINGS (NEW), PAINT COLOR: SW 7048 URBANE BRONZE	



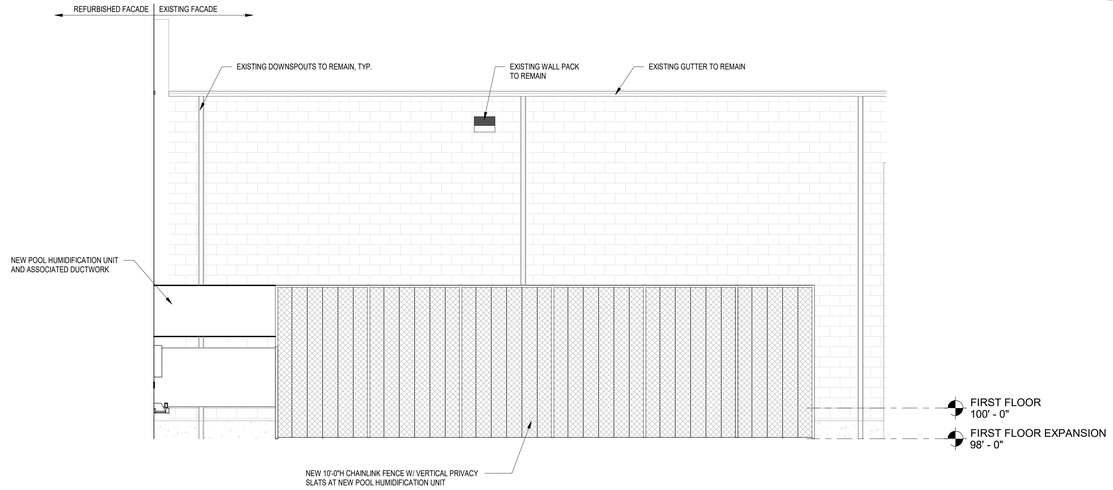
3 A303 **EXPANSION BUILDING ELEVATION (NORTH)**
SCALE: 1/4" = 1'-0"



2 A303 **EXPANSION BUILDING ELEVATION (SOUTH)**
SCALE: 1/4" = 1'-0"



CHAINLINK FENCE DETAIL
SCALE:NTS



1 A303 **WEST ELEVATION**
SCALE: 1/4" = 1'-0"

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EXPANSION BUILDING ELEVATIONS

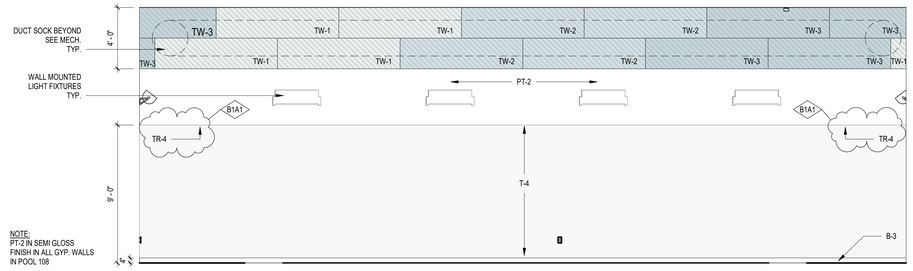
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Sheet Number
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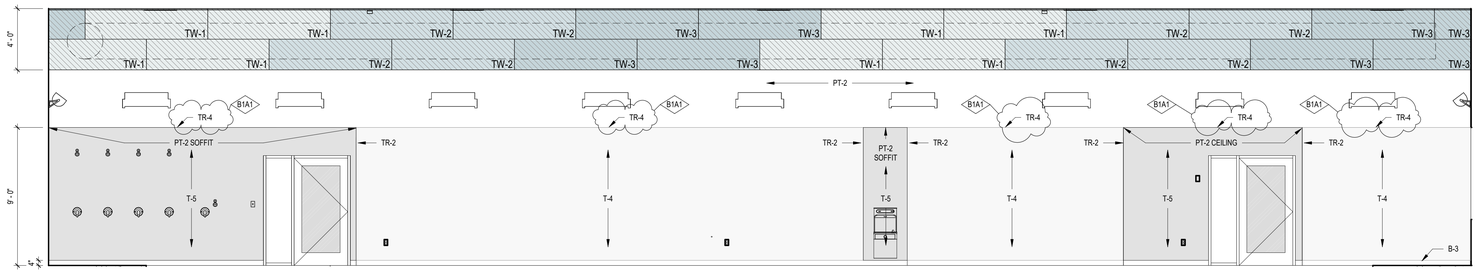
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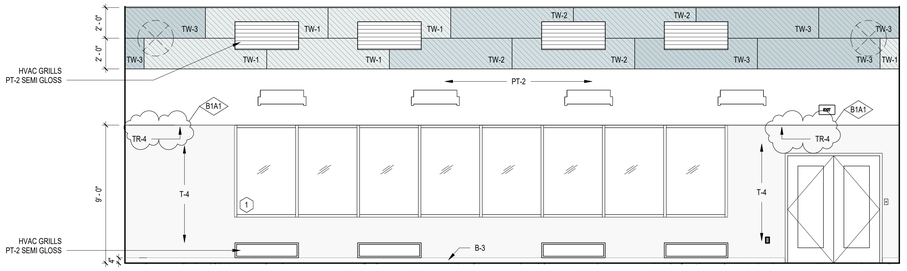
ACOUSTICAL WALL PANEL - POOL ROOM	
TW-1	MANUF: ARMSTRONG NAME: TECTUM DIRECT-ATTACH WALL PANELS COLOR: BENJAMIN MOORE CONSTALLATION AF-540 SIZE: 23 3/4" X 96"X 2" INSTALLATION: ASHLAR - SEE ELEVATIONS NOTE: DIRECT ATTACHED ONLY TO PRESSURE TREATED WOOD FURRING WITH ONLY CORROSIVE RESISTANT FASTENERS. SEE INSTALLATION GUIDE. CONTACT: BRIAN REICHERT BMREICHERT@ARMSTRONG.COM
TW-2	MANUF: ARMSTRONG NAME: TECTUM DIRECT-ATTACH WALL PANELS COLOR: BENJAMIN MOORE SERENATA AF-535 SIZE: 23 3/4" X 96"X 2" INSTALLATION: ASHLAR - SEE ELEVATIONS NOTE: DIRECT ATTACHED ONLY TO PRESSURE TREATED WOOD FURRING WITH ONLY CORROSIVE RESISTANT FASTENERS. SEE INSTALLATION GUIDE. CONTACT: BRIAN REICHERT BMREICHERT@ARMSTRONG.COM
TW-3	MANUF: ARMSTRONG NAME: TECTUM DIRECT-ATTACH WALL PANELS COLOR: BENJAMIN MOORE EXHALE AF-515 SIZE: 23 3/4" X 96"X 2" INSTALLATION: ASHLAR - SEE ELEVATIONS NOTE: DIRECT ATTACHED ONLY TO PRESSURE TREATED WOOD FURRING WITH ONLY CORROSIVE RESISTANT FASTENERS. SEE INSTALLATION GUIDE. CONTACT: BRIAN REICHERT BMREICHERT@ARMSTRONG.COM



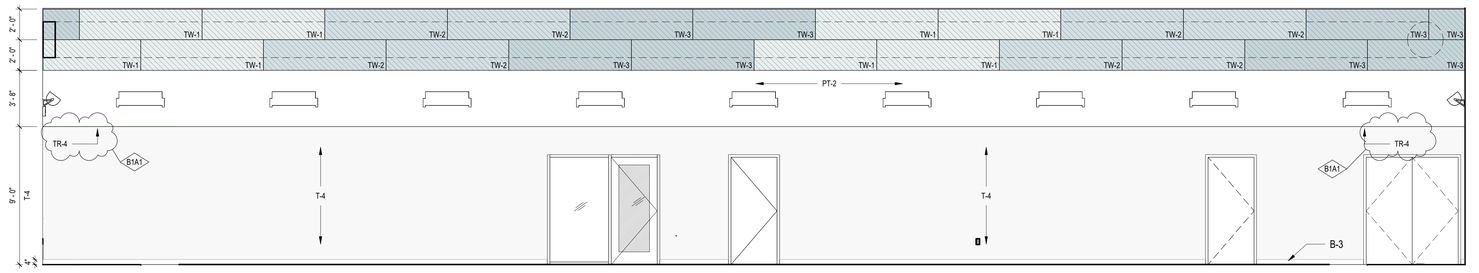
4 A632 **POOL 108 (NORTH)**
SCALE: 1/4" = 1'-0"



3 A632 **POOL 108 (EAST)**
SCALE: 1/4" = 1'-0"



2 A632 **POOL 108 (SOUTH)**
SCALE: 1/4" = 1'-0"



1 A632 **POOL 108 (WEST)**
SCALE: 1/4" = 1'-0"

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MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
POOL ELEVATIONS

Project Number: 20250550

Sheet Number
A632

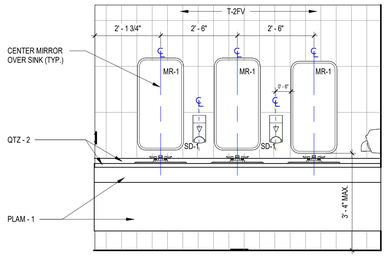
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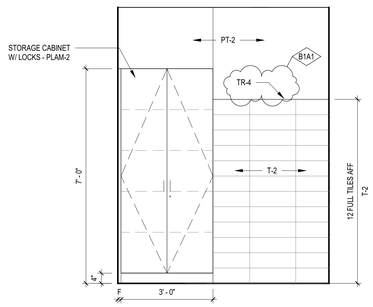
BATHROOM ACCESSORY SCHEDULE

MARK	FIXTURE	MANUFACTURER	MAN. #	COMMENTS
GB-1	GRAB BARS	BOBRICK	B-6806	HORIZONTAL 36" - 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
GB-2	GRAB BARS	BOBRICK	B-6806	HORIZONTAL 42" - 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
GB-3	GRAB BARS	BOBRICK	B-6806	VERTICAL 18" - 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
SD-1	SOAP DISPENSER	BY OWNER	BY OWNER	OFCI
MR-1	18" x 36" FRAMED MIRROR	BRADLEY CORP.	7B1-0018360	BRUSHED BRASS FINISH
MR-2	18" x 36" MIRROR - FRAME W/ SHELF	BRADLEY CORP.	7B1-0018360	BRUSHED BRASS FINISH
MR-3	24" x 60" MIRROR - FRAME	BRADLEY CORP.	7B1-5024600	BRUSHED BRASS FINISH
PT-1	PAPER TOWEL	BY OWNER	BY OWNER	OFCI
TP-1	TOILET PAPER DISPENSER	BY OWNER	BY OWNER	OFCI
SN-1	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	AT SINGLE USER TOILET ROOMS & ADA STALL
SN-2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-354	AT TOILET PARTITIONS
HD-1	HAND / HAIR DRYER	WORLD DRYER	DAS-973	SEE ELEVATION FOR MOUNTING HEIGHTS
TT-1	TOILET PARTITIONS	BRADLEY CORP.	PHENOLIC, SERIES 500	RAW CHESTNUT FINISH, FLOOR MOUNTED
US-1	URINAL SCREEN	BRADLEY CORP.	PHENOLIC	RAW CHESTNUT FINISH, WALL MOUNTED
BC-1	BABY CHANGING STATION	KOALA KARE	KB300-05	SURFACE MOUNT, WHITE GRANITE
HK-1	DOUBLE COAT / ROBE HOOK	BRADLEY CORP.	ELVARI 9B1 SERIES BRUSHED BRASS FINISH	LOCKER ROOM VEST. 106 / POOL WAITING 126 / ADJ. TO TIERED SEATING IN CORRIDOR 102 - SEE INTERIOR ELEVATIONS

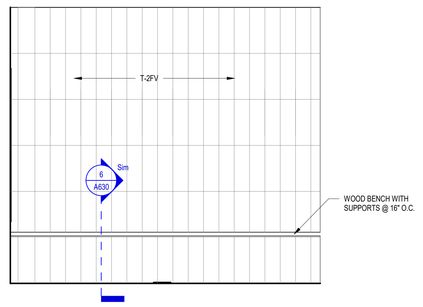
NOTES:
1. SEE A011 FOR ACCESSORY MOUNTING DIMENSIONS
2. COORDINATE OWNER PROVIDED TOILET ACCESSORIES LOCATIONS IN FIELD WITH OWNER



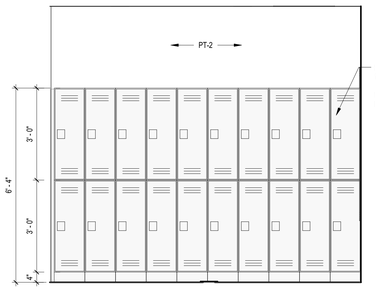
12 A633 **LOCKER ROOMS 127 + 128 - VANITY**
SCALE: 1/2" = 1'-0"



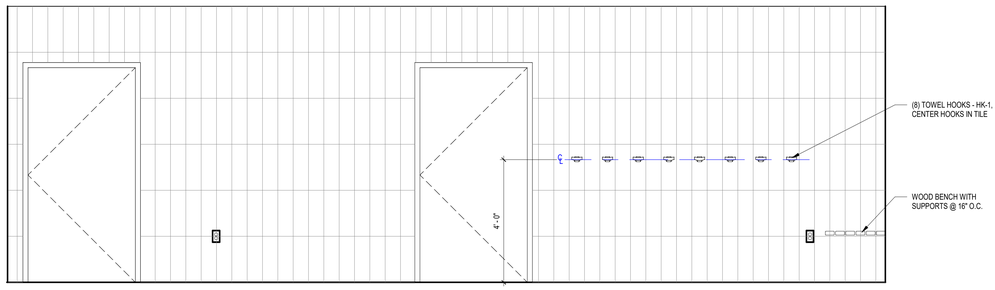
9 A633 **WOMEN'S LOCKER ROOM 128 - STORAGE CABINET**
SCALE: 1/2" = 1'-0"



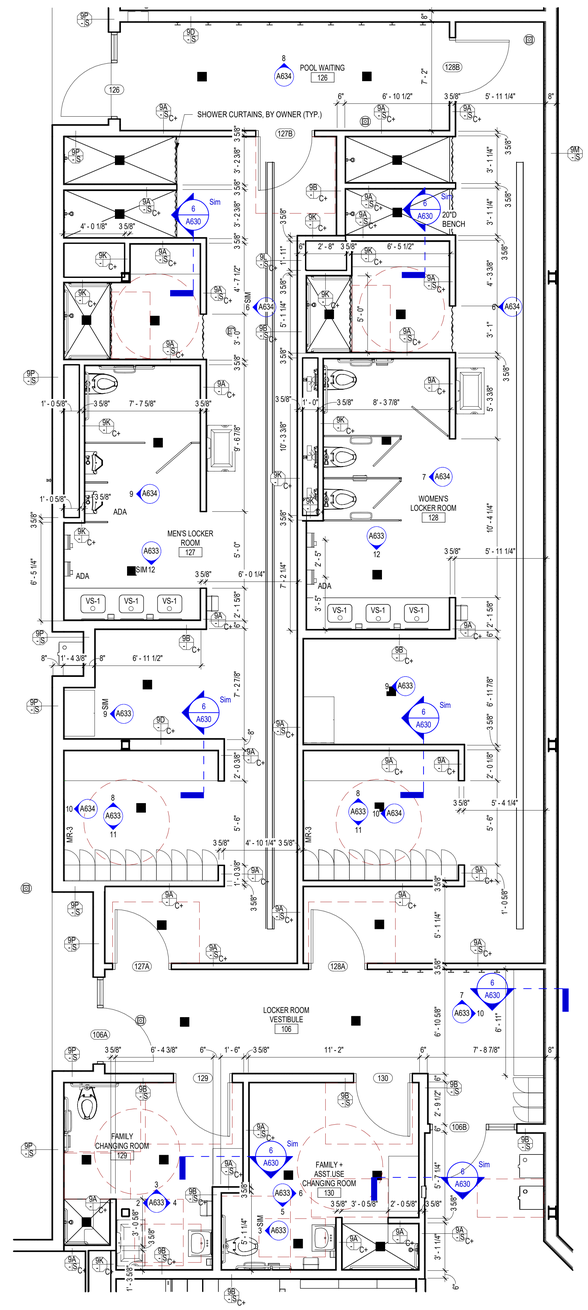
8 A633 **LOCKER ROOMS 127 + 128 - BENCH**
SCALE: 1/2" = 1'-0"



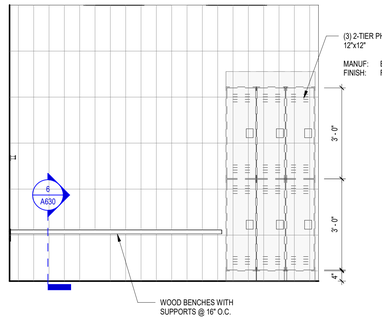
11 A633 **LOCKER ROOMS 127 + 128 - LOCKERS**
SCALE: 1/2" = 1'-0"



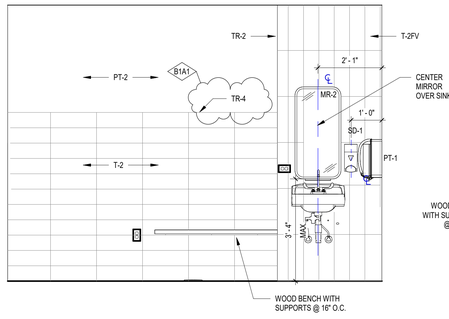
7 A633 **LOCKER ROOM VESTIBULE 106 (NORTH)**
SCALE: 1/2" = 1'-0"



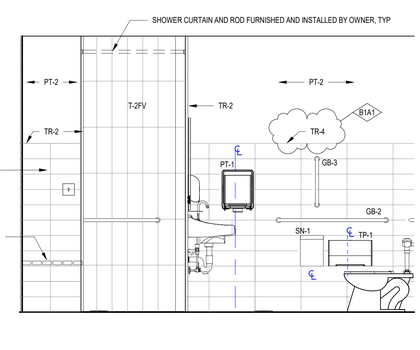
1 A633 **ENLARGED LOCKER ROOM PLAN**
SCALE: 1/4" = 1'-0"



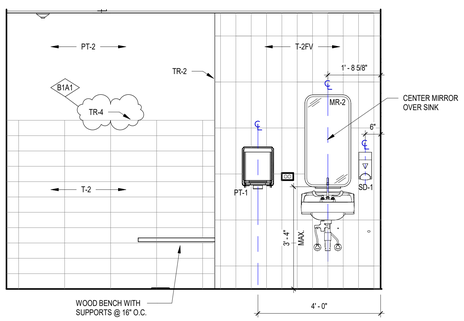
10 A633 **LOCKER ROOM VESTIBULE 106 - LOCKERS**
SCALE: 1/2" = 1'-0"



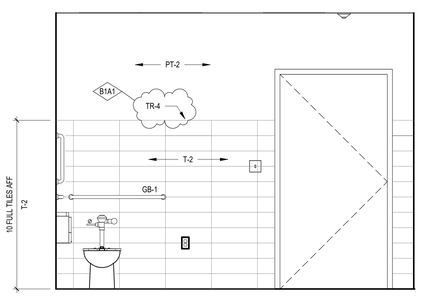
6 A633 **FAMILY CHANGING ROOM 129 (EAST)**
SCALE: 1/2" = 1'-0"



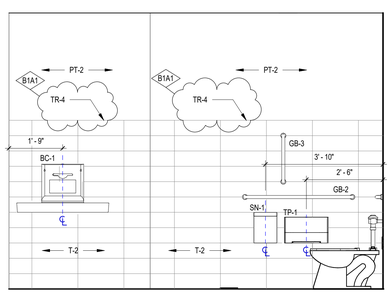
5 A633 **FAMILY CHANGING ROOM 129 (SOUTH)**
SCALE: 1/2" = 1'-0"



4 A633 **FAMILY CHANGING ROOM 128 (EAST)**
SCALE: 1/2" = 1'-0"



3 A633 **FAMILY CHANGING ROOM 128 (NORTH)**
SCALE: 1/2" = 1'-0"



2 A633 **FAMILY CHANGING ROOM 128 (WEST)**
SCALE: 1/2" = 1'-0"

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Sheet Title
ENLARGED PLANS & ELEVATIONS - LOCKER ROOMS

Project Number: 20250550

Sheet Number
A633

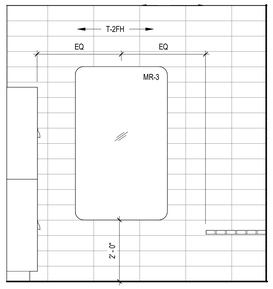
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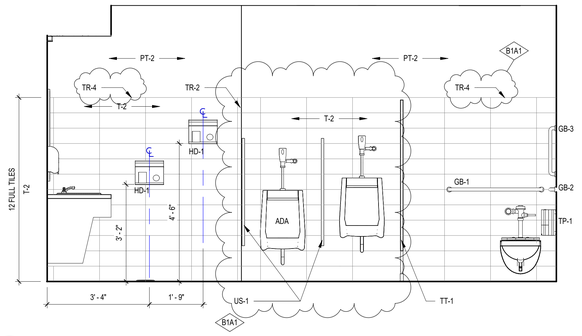
BATHROOM ACCESSORY SCHEDULE

MARK	FIXTURE	MANUFACTURER	MAN. #	COMMENTS
GB-1	GRAB BARS	BOBRICK	B-6806	HORIZONTAL 36" - 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
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GB-3	GRAB BARS	BOBRICK	B-6806	VERTICAL 18" - 1 1/2" DIAMETER STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
SD-1	SOAP DISPENSER	BY OWNER	BY OWNER	OFCI
MR-1	18" x 36" FRAMED MIRROR	BRADLEY CORP.	7B1-0018360	BRUSHED BRASS FINISH
MR-2	18" x 36" MIRROR - FRAME W/ SHELF	BRADLEY CORP.	7B1-0018360	BRUSHED BRASS FINISH
MR-3	24" x 60" MIRROR - FRAME	BRADLEY CORP.	7B1-5024600	BRUSHED BRASS FINISH
PT-1	PAPER TOWEL	BY OWNER	BY OWNER	OFCI
TP-1	TOILET PAPER DISPENSER	BY OWNER	BY OWNER	OFCI
SN-1	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	AT SINGLE USER TOILET ROOMS & ADA STALL
SN-2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-354	AT TOILET PARTITIONS
HD-1	HAND / HAIR DRYER	WORLD DRYER	DAS-973	SEE ELEVATION FOR MOUNTING HEIGHTS
TT-1	TOILET PARTITIONS	BRADLEY CORP.	PHENOLIC, SERIES 500	RAW CHESTNUT FINISH, FLOOR MOUNTED
US-1	URINAL SCREEN	BRADLEY CORP.	PHENOLIC	RAW CHESTNUT FINISH, WALL MOUNTED
BC-1	BABY CHANGING STATION	KOALA KARE	KB300-05	SURFACE MOUNT, WHITE GRANITE
HK-1	DOUBLE COAT / ROBE HOOK	BRADLEY CORP.	ELVARI 9B1 SERIES BRUSHED BRASS FINISH	LOCKER ROOM VEST. 106 / POOL WAITING 126 / ADJ. TO TIERED SEATING IN CORRIDOR 102 - SEE INTERIOR ELEVATIONS

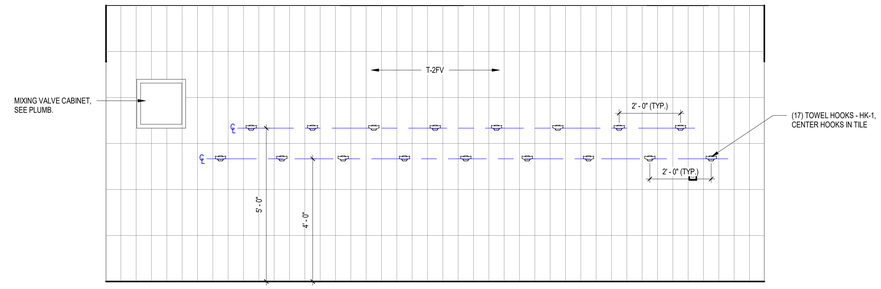
NOTES:
1. SEE A011 FOR ACCESSORY MOUNTING DIMENSIONS
2. COORDINATE OWNER PROVIDED TOILET ACCESSORIES LOCATIONS IN FIELD WITH OWNER



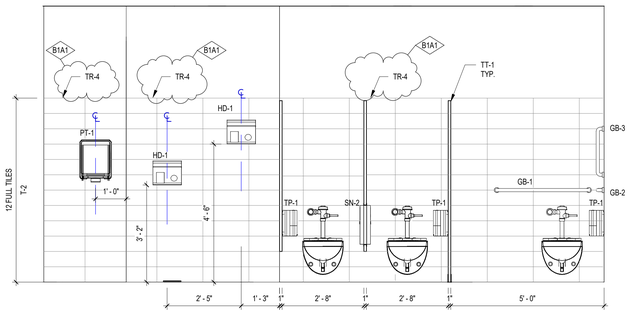
10 A634 **LOCKER ROOM 127 & 128 - MIRROR**
SCALE: 1/2" = 1'-0"



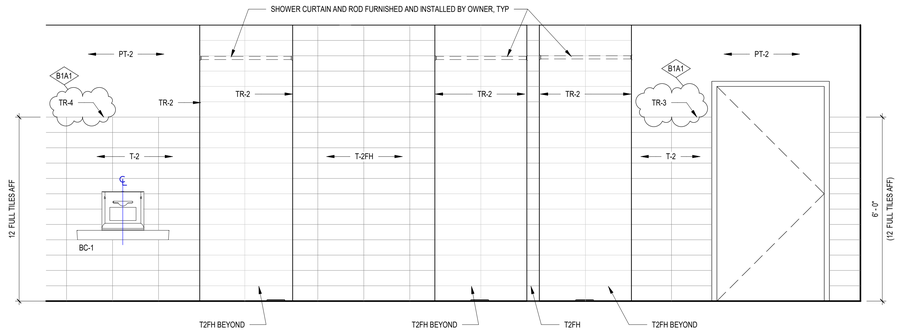
9 A634 **MEN'S LOCKER ROOM 127 (WEST)**
SCALE: 1/2" = 1'-0"



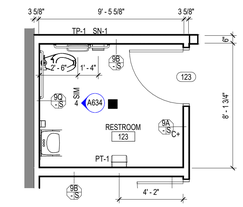
8 A634 **POOL WAITING 125 (NORTH)**
SCALE: 1/2" = 1'-0"



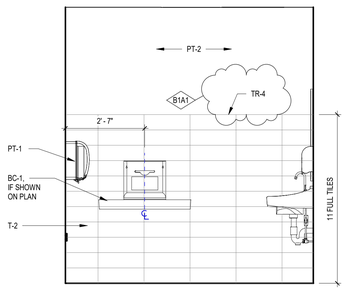
7 A634 **WOMEN'S LOCKER ROOM 128 (WEST)**
SCALE: 1/2" = 1'-0"



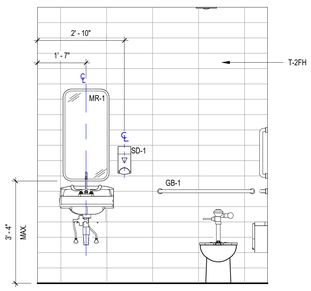
6 A634 **WOMEN'S LOCKER ROOM 128 (WEST)**
SCALE: 1/2" = 1'-0"



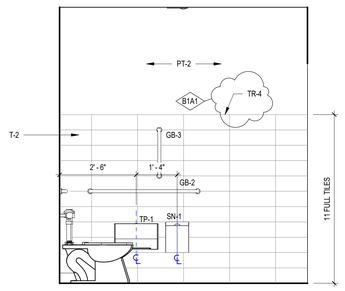
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2 A634 **ENLARGED RESTROOM PLAN**
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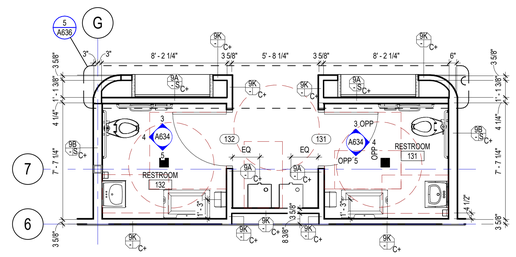
5 A634 **RESTROOM 131 (SOUTH)**
SCALE: 1/2" = 1'-0"



4 A634 **RESTROOM 131 (WEST)**
SCALE: 1/2" = 1'-0"



3 A634 **RESTROOM 131 (NORTH)**
SCALE: 1/2" = 1'-0"



N
1 A634 **ENLARGED RESTROOM PLAN**
SCALE: 1/4" = 1'-0"

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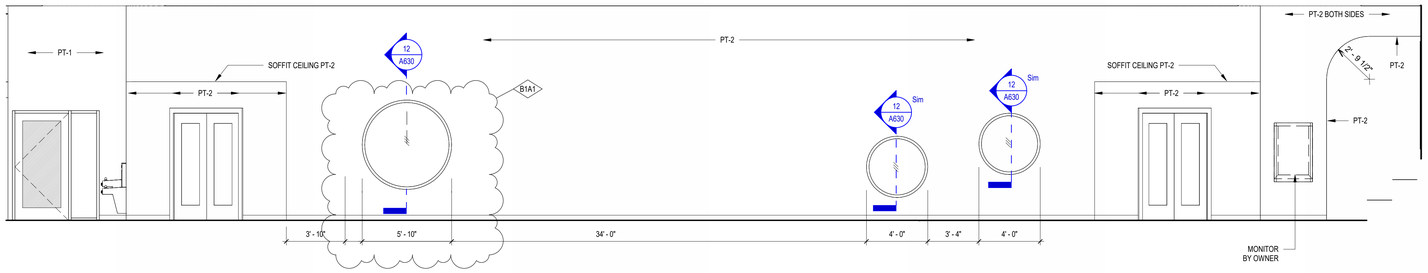
Sheet Title
ENLARGED PLANS & ELEVATIONS - LOCKER ROOMS & RESTROOMS

Project Number: 20250550

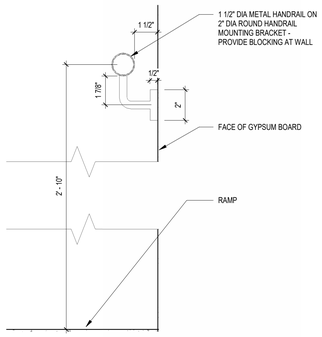
Sheet Number
A634

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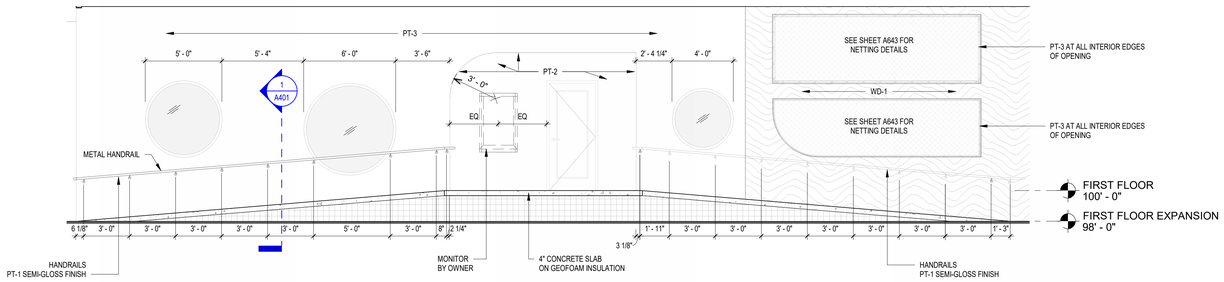
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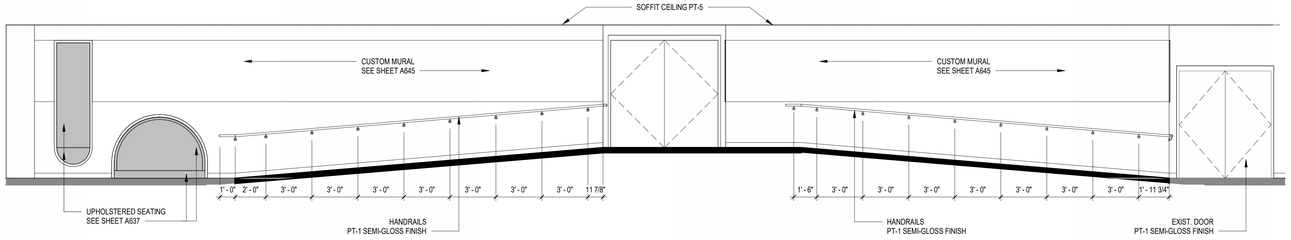
5 A638 **CORRIDOR 102 (NORTH)**
SCALE: 1/4" = 1'-0"



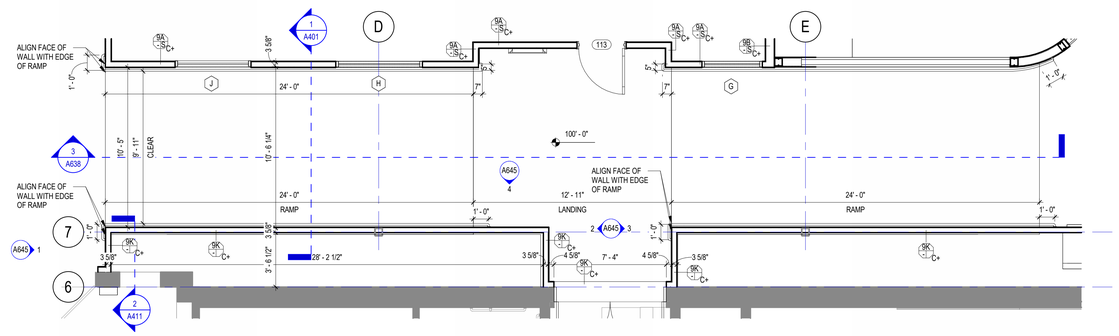
4 A638 **WALL MOUNTED HANDRAIL**
SCALE: 3" = 1'-0"



3 A638 **RAMP SECTION - EAST/WEST**
SCALE: 1/4" = 1'-0"



2 A638 **RAMP 103 (SOUTH)**
SCALE: 1/4" = 1'-0"



N
1 A638 **RAMP ENLARGED PLAN**
SCALE: 1/4" = 1'-0"

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Sheet Title
ENLARGED PLAN & ELEVATIONS - CORRIDOR 102 & RAMP 103

Project Number: 20250550

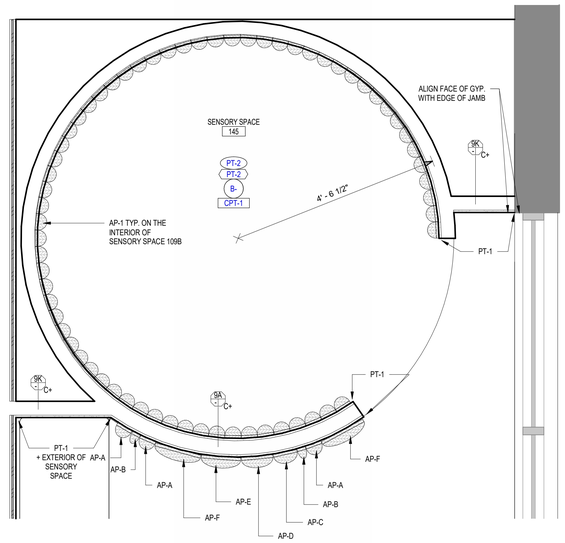
Sheet Number
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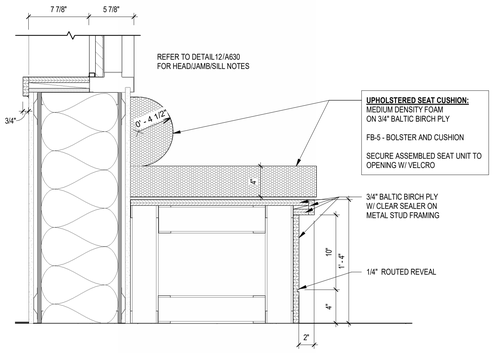




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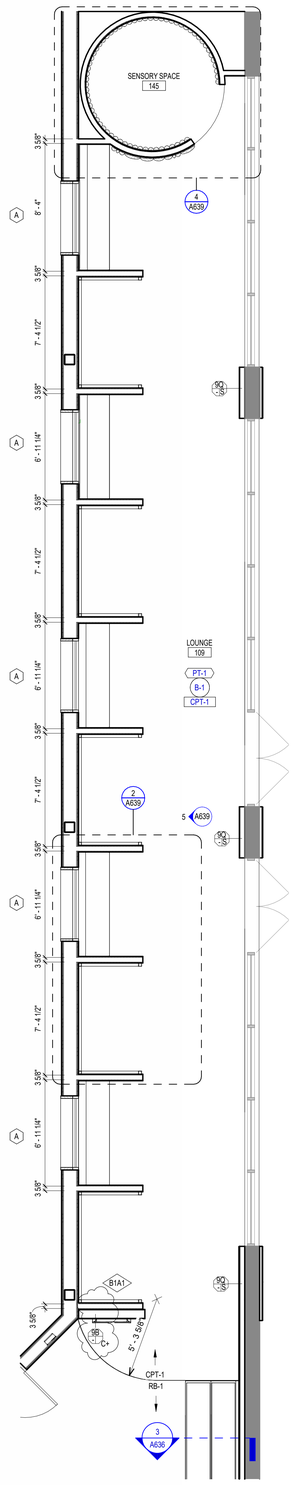
4 A639 **ENLARGED SENSORY ROOM PLAN**

SCALE: 3/4" = 1'-0"



3 A639 **LOUNGE 109 - BENCH DETAIL**

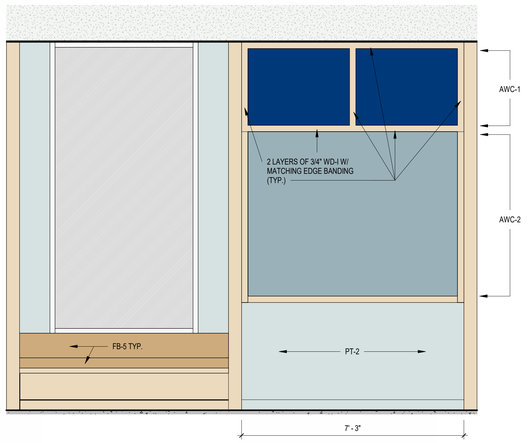
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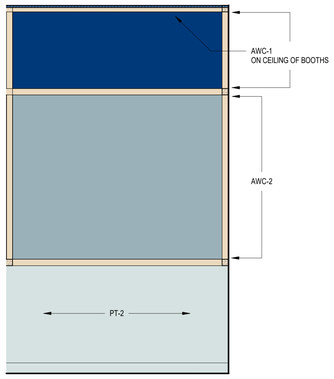
1 A639 **ENLARGED FLOOR PLAN**

SCALE: 1/4" = 1'-0"



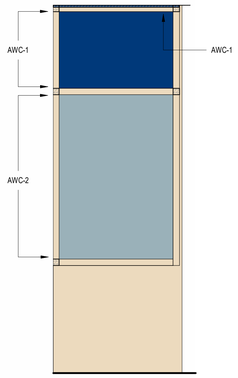
5 A639 **BOOTH EXTERIOR FRONT ELEVATION - TYP.**

SCALE: 1/2" = 1'-0"



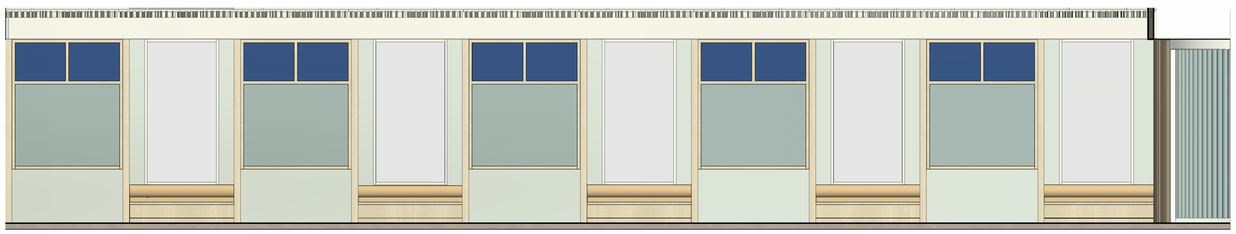
7 A639 **BOOTH INTERIOR FRONT ELEVATION - TYP.**

SCALE: 1/2" = 1'-0"



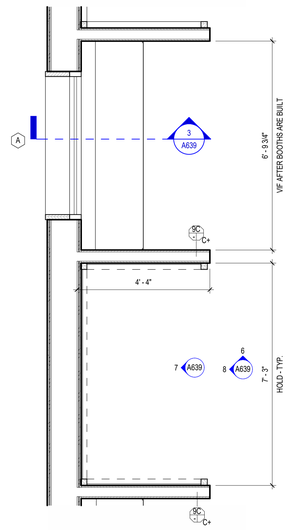
6 A639 **BOOTH SIDE ELEVATION - TYP.**

SCALE: 1/2" = 1'-0"



5 A639 **LOUNGE 109 (WEST)**

SCALE: 1/4" = 1'-0"



N

2 A639 **ENLARGED BOOTH PLAN**

SCALE: 1/2" = 1'-0"

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Sheet Title
ENLARGED PLANS & ELEVATIONS - LOUNGE 109

Project Number: 20250550

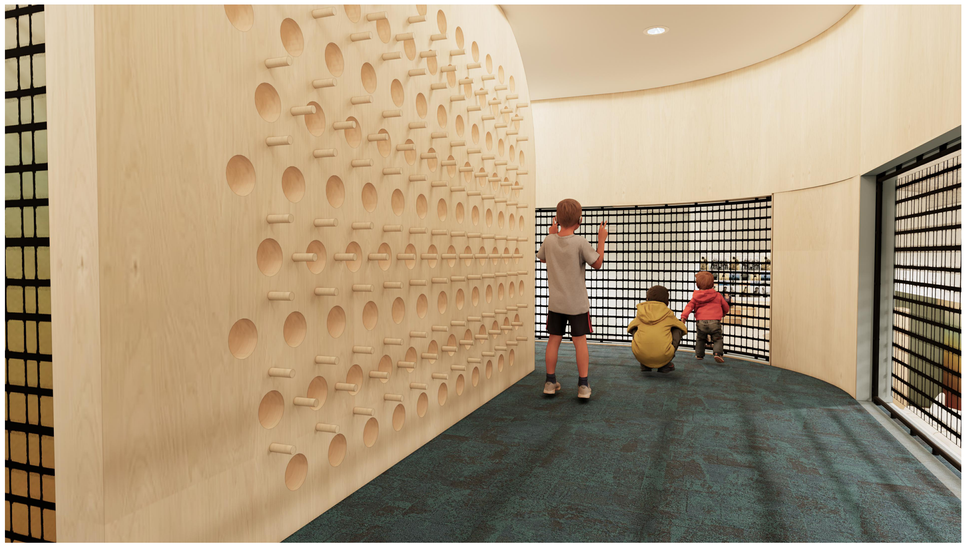
Sheet Number
A639

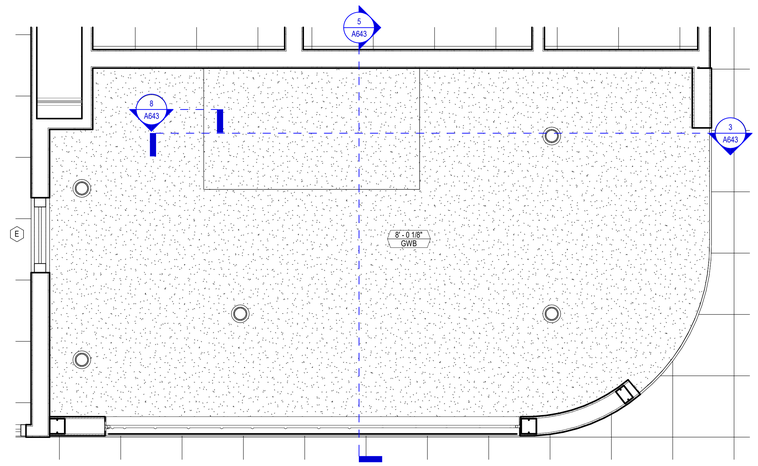
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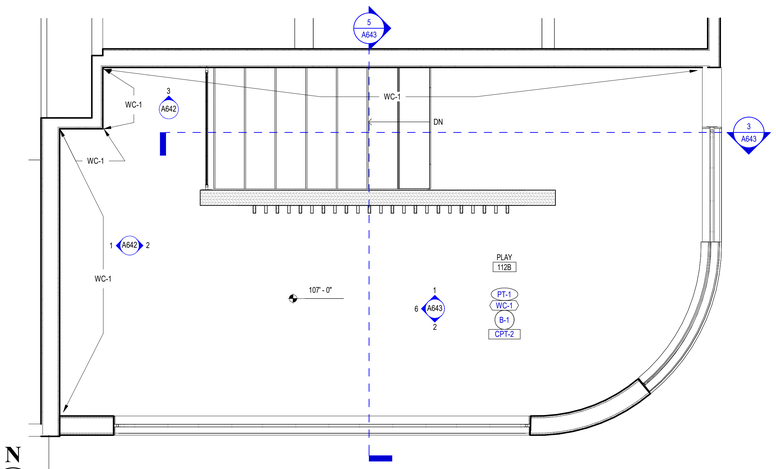




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3 A641 **PLAN 112A - REFLECTED CEILING PLAN**

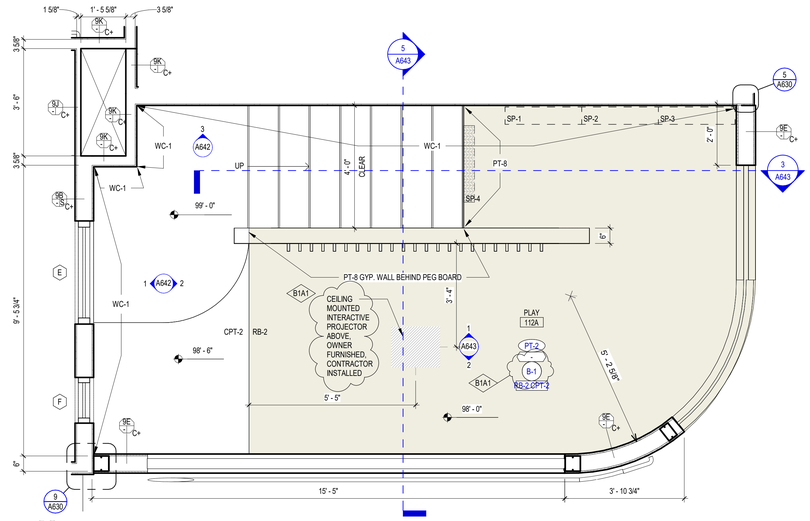
SCALE: 1/2" = 1'-0"



N

2 A641 **PLAN 112B - ENLARGED SECOND FLOOR PLAN**

SCALE: 1/2" = 1'-0"



N

1 A641 **PLAN 112A - ENLARGED FIRST FLOOR PLAN**

SCALE: 1/2" = 1'-0"

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Sheet Title

ENLARGED PLANS & ELEVATIONS - PLAY AREA 112

Project Number: 20250550

Sheet Number

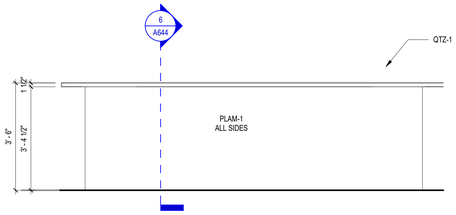
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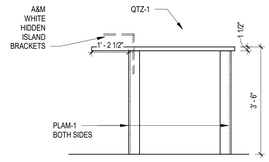
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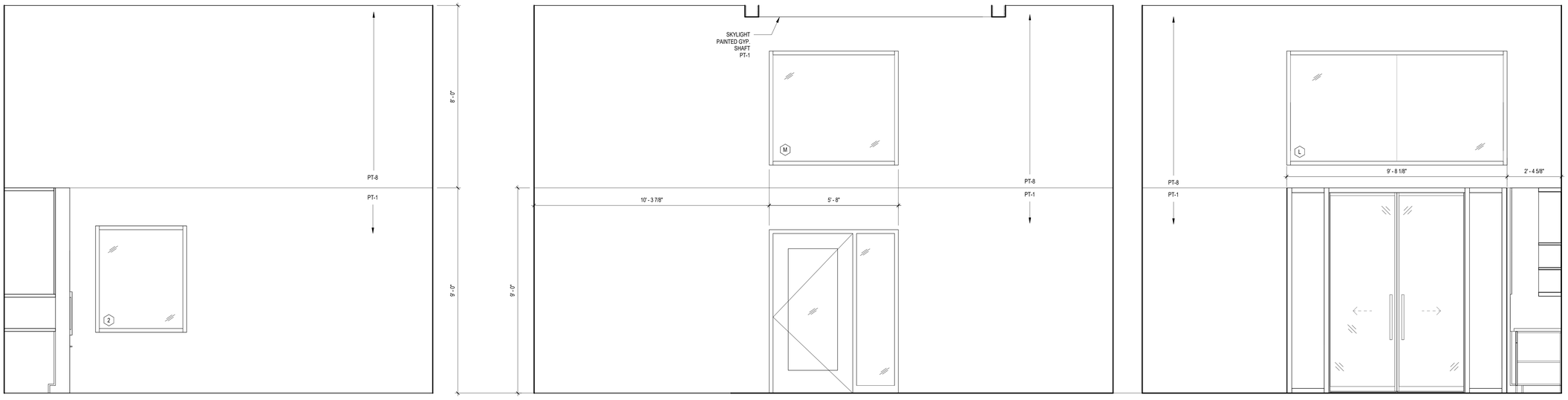
8 A644 **BREAK ROOM 114 OPEN SHELVING**
SCALE: NTS



7 A644 **BREAK ROOM 114 - ISLAND (NORTH)**
SCALE: 1/2" = 1'-0"



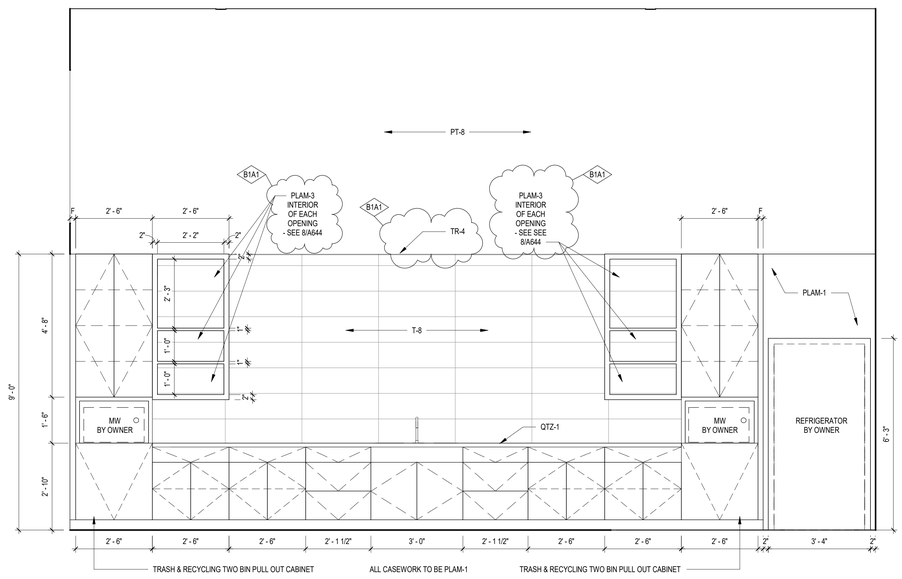
6 A644 **SECTION @ BREAK ROOM 114 ISLAND**
SCALE: 1/2" = 1'-0"



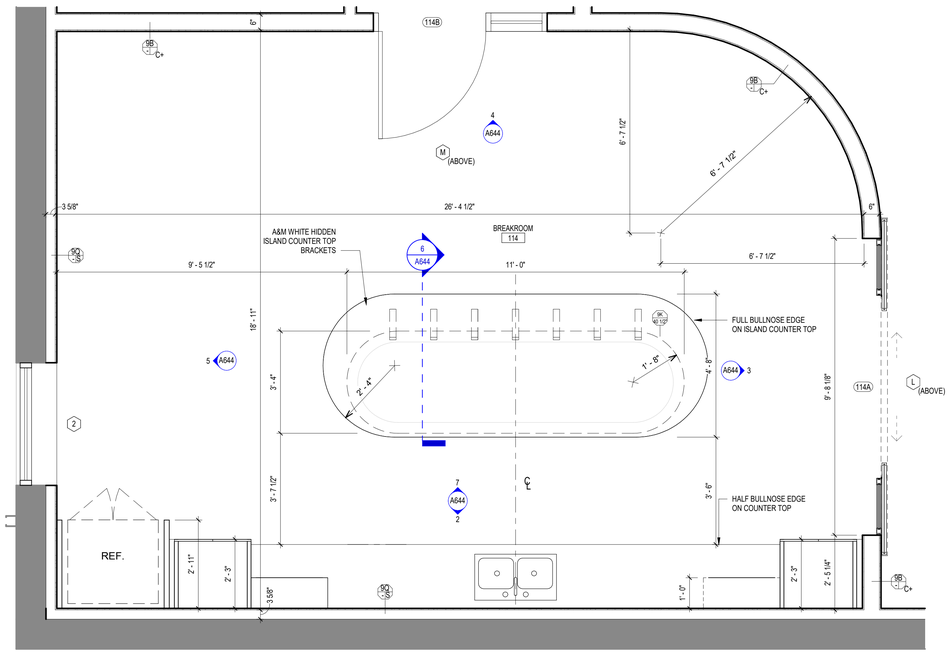
5 A644 **BREAK ROOM 114 (WEST)**
SCALE: 1/2" = 1'-0"

4 A644 **BREAK ROOM 114 (NORTH)**
SCALE: 1/2" = 1'-0"

3 A644 **BREAK ROOM 114 (EAST)**
SCALE: 1/2" = 1'-0"



2 A644 **BREAK ROOM 114 (SOUTH)**
SCALE: 1/2" = 1'-0"



N

1 A644 **ENLARGED FLOOR PLAN**
SCALE: 1/2" = 1'-0"

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ENLARGED PLANS & ELEVATIONS - BREAK ROOM 114

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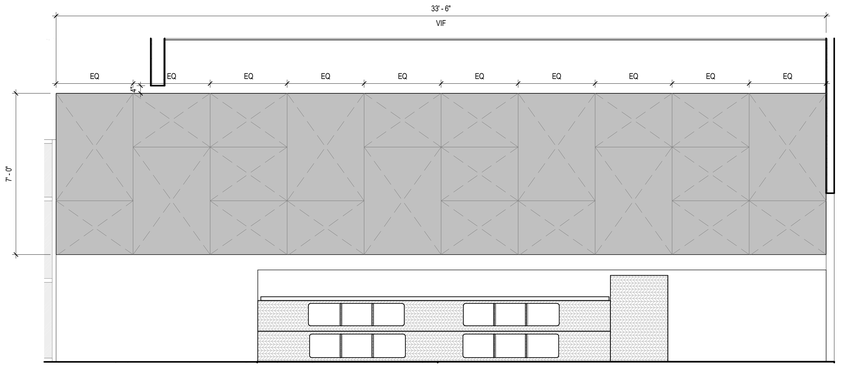
Sheet Number
A644

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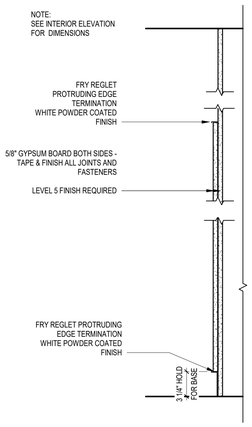
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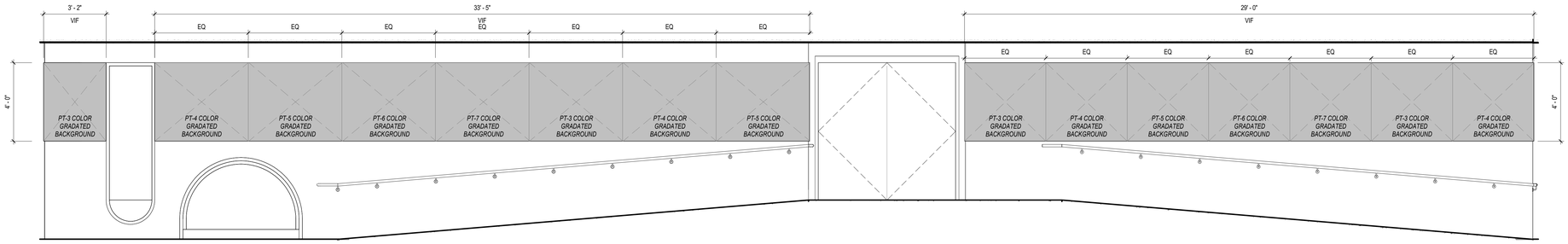
MURALS GENERAL NOTES AND INSTRUCTIONS:

1. BASIS OF DESIGN ARE THE EXISTING CUSTOM MURALS IN THE EXISTING MSCR-WEST LOBBY AND CORRIDOR. THE NEW MURAL SHOULD LOOK IDENTICAL IN STYLE - NO EXCEPTIONS.
2. AMPLIFY GRAPHICS AND BRANDING (AMPLIFYCAN.COM) PRINTED AND INSTALLED THE ORIGINAL MURALS.
   AMPLIFY CONTACT: JESS SHAKE
   JSHAKE@AMPLIFYCAN.COM
   B1A1
3. WITHOUT EXCEPTION, THE OWNER REQUIRES THE ORIGINAL GRAPHIC DESIGNER OF THE ORIGINAL MURAL BE HIRED TO WORK WITH OWNER TO CREATE THE NEW MURALS FOR AMPLIFY TO PRINT AND INSTALL.
   GRAPHIC DESIGNER: BRETT ADAMS
   BADAMS.HOMES1@GMAIL.COM
4. MSCR SUPPLIED THE PHOTOS FOR ALL OF THE ORIGINAL MURALS AND WILL DO SO FOR ALL OF THE NEW MURALS.
   MCSR TO WORK WITH GRAPHIC DESIGNER TO CURATE THE APPROPRIATE MIX OF IMAGES FOR THE MURALS.
   NO STOCK IMAGES TO BE USED.
   ALL FINAL LAYOUTS TO BE REVIEWED AND APPROVED BY ICONICA PRIOR TO INSTALLATION.
   ANY ADDITONAL REVIEW OR REQUESTED DESIGN TIME IS OUTSIDE THE SCOPE OF ICONICA'S CONSTRUCTION ADIMINISTRATION FEE AND WOULD REQUIRE AN ADDITIONAL SERVICES AGREEMENT.
5. MURAL GRADIENT BACKGROUDS TO BE MATCHED TO THE PAINT COLORS CALLED OUT IN THE FINISH SCHEDULE.
   FOR EXAMPLE, "PT-3 COLOR GRADATED BACKGROUND" ON THE ELEVATIONS ON THIS SHEET REFER TO THE COLOR TO BE USED IN EACH VIGNETTE, NOT THE ACTUAL PAINT BEING PAINTED IN A GRADATED STYLE.
6. MURAL MATERIAL: 3MU180 W/ 8520 MATTE LAMINATE
7. WALLS RECEIVING MURALS TO HAVE A LEVEL 5 FINISH AND BE CLEAN AND FREE OF DUST AND DEBRIS PRIOR TO MURAL INSTALLATION. ICONICA TO REVIEW AND APPROVE LEVEL 5 FINISH AND CLEANING PRIOR TO MURAL INSTALLATION.
8. MURAL A: LAYOUT CAN BE MODIFIED IN SERVICE TO THE IMAGES CHOSED TO BE USED FOR THIS MURAL, ALTHOUGH AN EQUAL NUMBER OF BACKGROUND COLORS (PT-3 / PT-4 / PT-5 / PT-6 / PT-7) ARE REQUIRED. AS A RESULT, THESE COLORS ARE NOT SHOWN ON S/A645.
9. MURAL B: LAYOUT TO BE IDENTICAL OR SIMILAR TO LAYOUT SHOWN IN ELEVATION. NOTE THAT THIS MURAL CURVES WITH THE WALL - SEE FLOOR PLAN.
10. THE MURAL SHOWN IN THE RENDERINGS OF THE ADDITION IN THIS DRAWING SET ARE FOR CONCEPTUAL PURPOSES ONLY. FOLLOW THE ABOVE INFORMATION AND THE ELEVATIONS BELOW.
11. ANY QUESTIONS TO BE DIRECTED TO:
    STEVE CARBIN
    STEVE.CARBIN@ICONICACREATES.COM



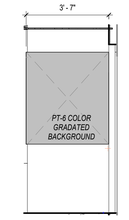
5 A645 **MURAL A - CORRIDOR 102**
SCALE: 3/8" = 1'-0"



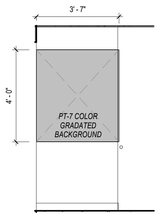


7 A645 **DRYWALL EDGE DETAIL @ MURAL LOCATIONS**
SCALE: 1 1/2" = 1'-0"

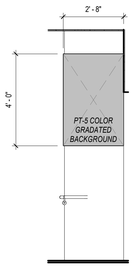
4 A645 **MURAL B - RAMP 103**
SCALE: 3/8" = 1'-0"



3 A645 **MURAL B1 - RAMP 103**
SCALE: 3/8" = 1'-0"



2 A645 **MURAL B2 - RAMP 103**
SCALE: 3/8" = 1'-0"



1 A645 **MURAL B-3 - RAMP 103**
SCALE: 3/8" = 1'-0"





6 A645 **MSCR EXISTING MURALS - BASIS OF DESIGN**
SCALE:NTS

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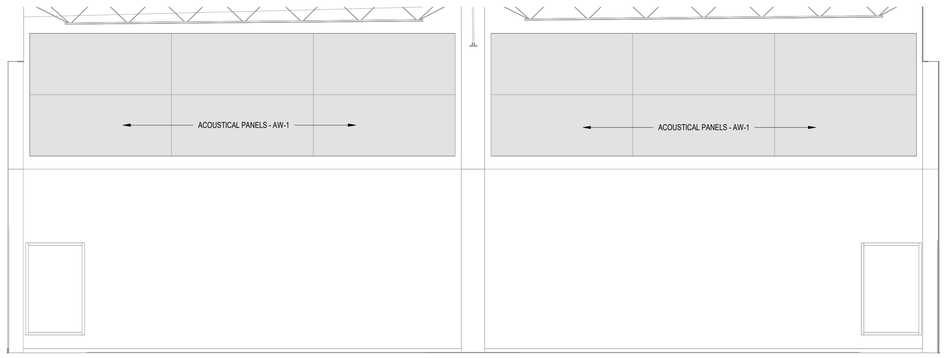
Sheet Title
MURALS

Project Number: 20250550

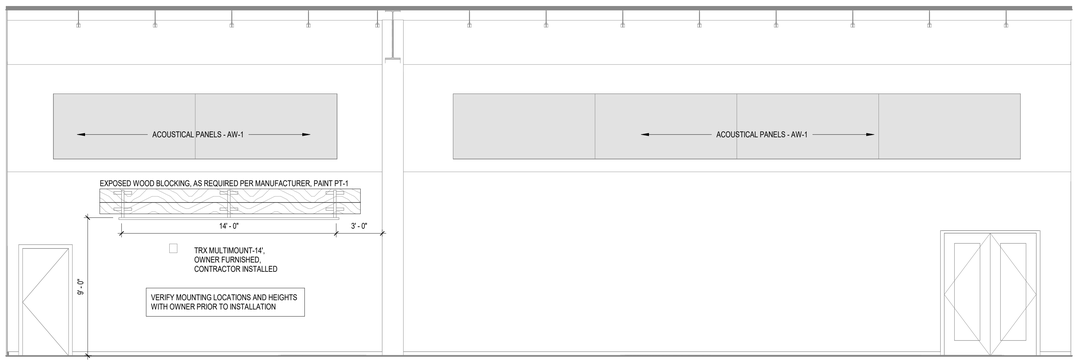
Sheet Number
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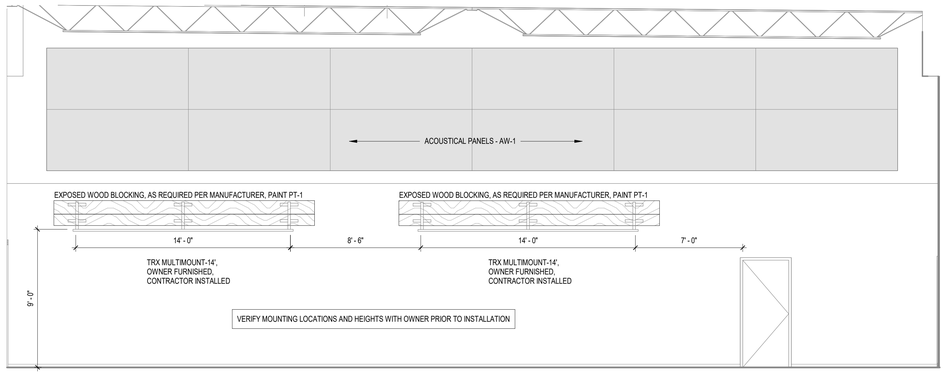
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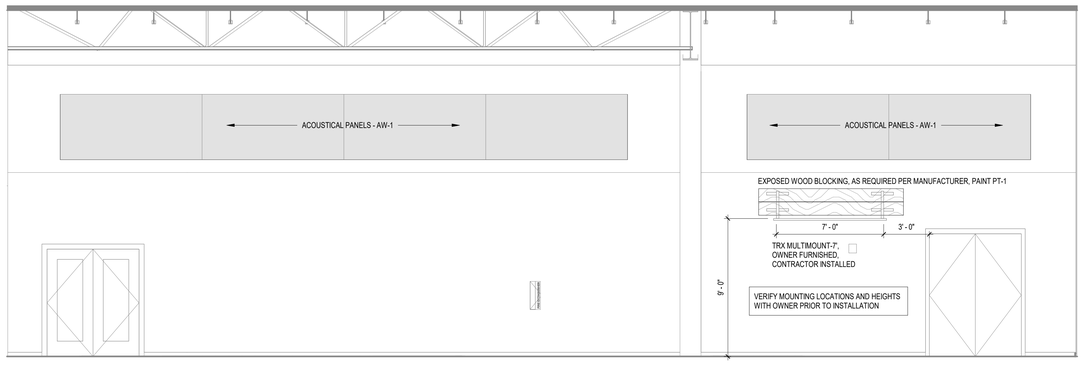
5 A646 **GYMNASIUM E106 (NORTH)**
SCALE:



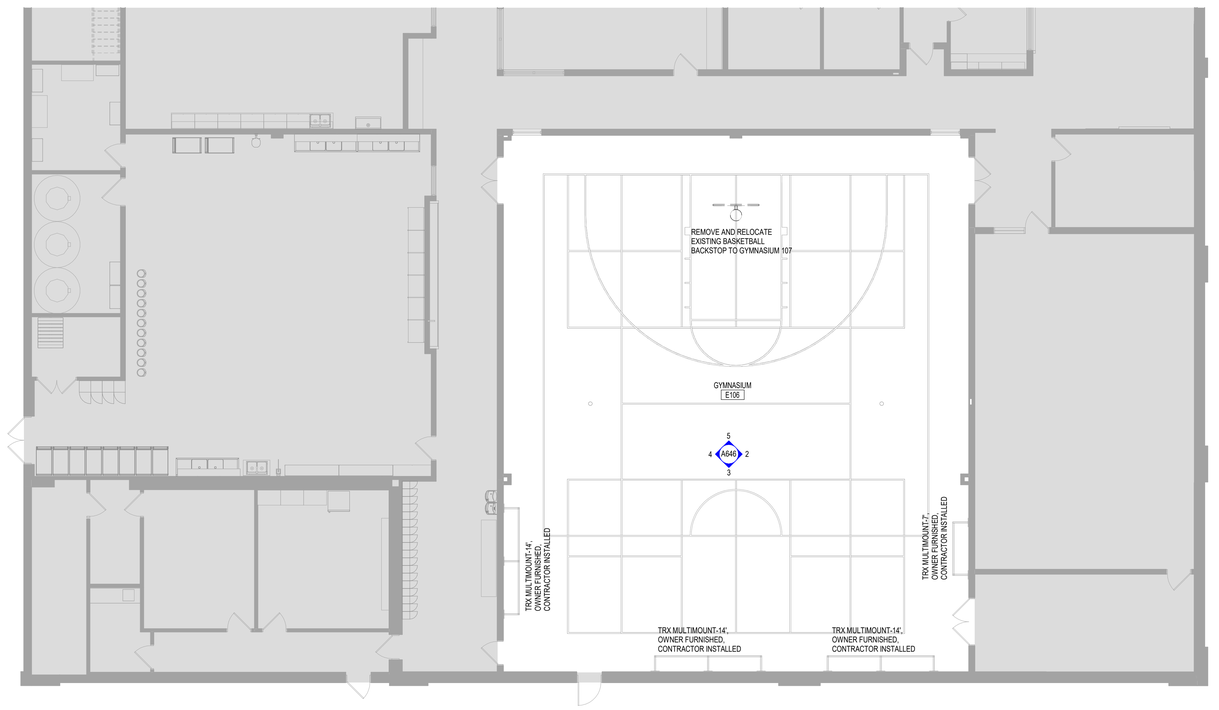
4 A646 **GYMNASIUM E106 (WEST)**
SCALE: 1/4" = 1'-0"



3 A646 **GYMNASIUM E106 (SOUTH)**
SCALE: 1/4" = 1'-0"



2 A646 **GYMNASIUM E106 (EAST)**
SCALE:



N

1 A646 **FIRST FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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Sheet Title
ENLARGED PLANS & ELEVATIONS - GYMNASIUM E106

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A646

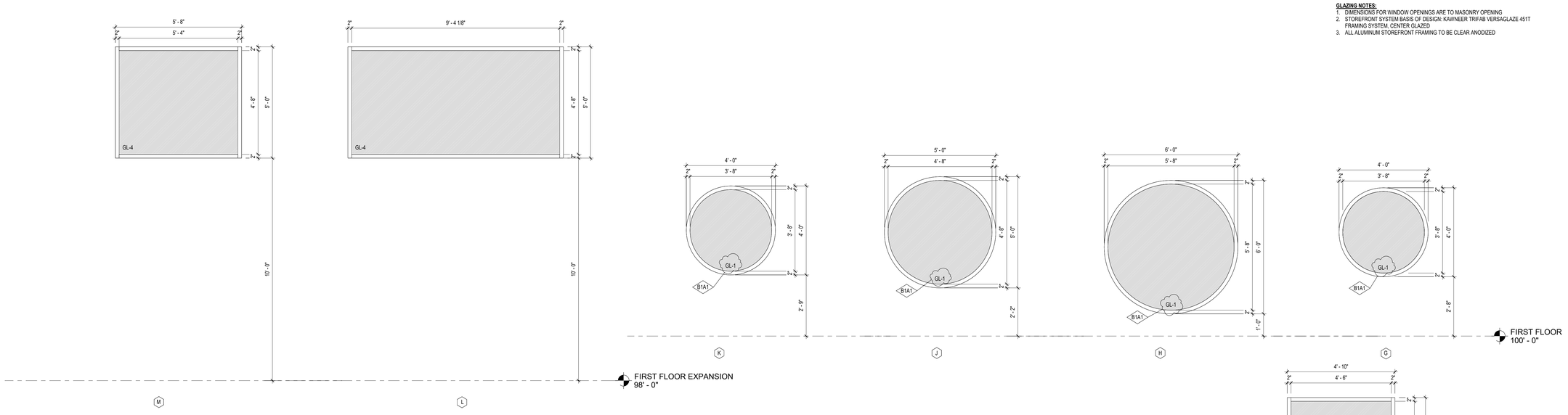
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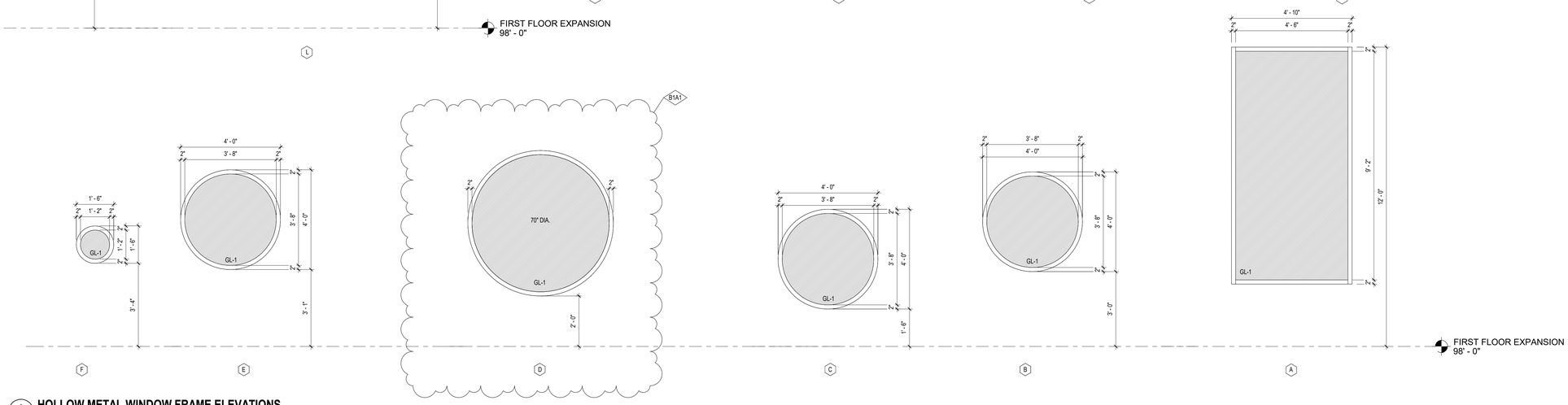
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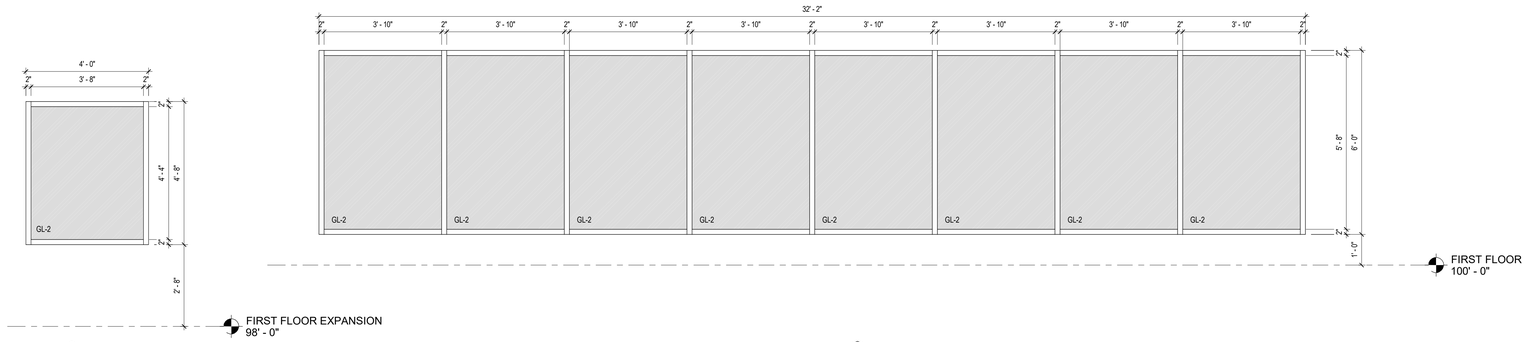
GLAZING SCHEDULE					
MARK	TYPE	TINT	TREATMENT	SHGC	U-VALUE
GL-1	1" GLAZING	CLEAR	LAMINATED	-	-
GL-2	1" INSULATING, LOW-E, ARGON	CLEAR	FULLY TEMPERED	0.40 (MIN)	0.28 (COG)
GL-3	1/4" GLAZING	CLEAR	LAMINATED		
GL-4	1/4" GLAZING	CLEAR	FULLY TEMPERED		

GLAZING NOTES:
1. DIMENSIONS FOR WINDOW OPENINGS ARE TO MASONRY OPENING
2. STOREFRONT SYSTEM BASIS OF DESIGN: KAWNEER TRIFAB VERSAGLAZE 451T FRAMING SYSTEM, CENTER GLAZED
3. ALL ALUMINUM STOREFRONT FRAMING TO BE CLEAR ANODIZED





2 A710 HOLLOW METAL WINDOW FRAME ELEVATIONS
SCALE: 1/2" = 1'-0"



11 A710 ALUMINUM STOREFRONT FRAME ELEVATIONS
SCALE: 1/2" = 1'-0"

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Sheet Title
HOLLOW METAL AND STOREFRONT WINDOW SCHEDULES

Project Number: 20250550

Sheet Number
A710

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HARDWARE GROUP NO. 01

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.50 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00 EA	SALTO MINI	CM250N70CSB3	626	SALTO
1.00 EA	LCN 4040XP EDA	4040XP W/ EDA ARM	ALUM	LCN
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD

HARDWARE GROUP NO. 02

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.50 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00 EA	SALTO MINI	CM250N70CSB3	626	SALTO
1.00 EA	LCN 4040XP HEDA	4040XP W/ HEDA ARM	ALUM	LCN
1.00 EA	ARMOR PLATE	K10150 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	WALL STOP	405	626	ROCKWOOD

HARDWARE GROUP NO. 03

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.50 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00 EA	SALTO MINI	CM250N70CSB3	626	SALTO
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	WALL STOP	405	626	ROCKWOOD

HARDWARE GROUP NO. 04

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00 EA	LCN 4040XP EDA	4040XP W/ EDA ARM	ALUM	LCN
1.00 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1.00 EA	ADA INSET PULL		US32D	DOOR MANU.

HARDWARE GROUP NO. 05

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00 EA	LCN 4040XP EDA	4040XP W/ EDA ARM	ALUM	LCN
1.00 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	PUSH/PULL	110 X 73C/73CL	US32D	ROCKWOOD
1.00 EA	DOUBLE DEADBOLT	B663R	US32D	SCHLAGE

HARDWARE GROUP NO. 06

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00 EA	SALTO MINI	CM250N70CSB3	626	SALTO
3.00 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00 EA	ARMOR PLATE	K1050 34 X 34"	US32D	ROCKWOOD
1.00	MANUAL FLUSH BOLTS	FB 458 (DOOR ON LEFT)	US26D	HES
1.00	DUST PROOF STRIKE	DP2	626	IVES
1.00 EA	OVERHEAD STOP	104F	US32D	GLYNN JOHN.
1.00	ASTRIGAL	130SP-84	SPDKB	NGP
1.00	THRESHOLD	813 - 72" X 8"	ALUM	NGP

HARDWARE GROUP NO. 07

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO NETWORKED CONTROLLER	CU4CE0US	626	SALTO
1.00	ELECTRIC STRIKE CARD READER	HES 9400	US26D	HES

HARDWARE GROUP NO. 08

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO HALF ESCUTCHEON	AM650N00IMBH8		SALTO
1.00	SALTO CONVERSION KIT	KPP04IM		SALTO
1.00	VONDUPRIN 9949	CABLE 9949	CLR	VONDUPRIN
1.00	CONTINUOIS HINGE	780-224HD	CLR	HAGER

HARDWARE GROUP NO. 09

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO HALF ESCUTCHEON	AM650N00IMBH8		SALTO
1.00	SALTO CONVERSION KIT	KPP04IM		SALTO
1.00 EA	VONDUPRIN 99	99 EO	CLR	VONDUPRIN
1.00 EA	PUSH/PULL	110 X 73C/73CL	US32D	ROCKWOOD
1.00 EA	LCN 4040XP EDA	4040 XP W/ EDA ARM	ALUM	LCN
1.00 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER

HARDWARE GROUP NO. 10

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO HALF ESCUTCHEON	AM650N00IMBH8 (DOOR ON RIGHT)	626	SALTO
1.00	SALTO CONVERSION KIT	KPP04IM	626	SALTO
1.00 EA	EXIT DEVICE	CABLE 9949	CLR	VON DUPRIN
1.00 EA	CLOSER	4040 XP W/ SHCUSH ARM	ALUM	LCN
1.00 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	THRESHOLD	813 - 42" X 8"	ALUM	NGP

HARDWARE GROUP NO. 11

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO CARD READER	WRDM04AB	BLACK	SALTO
1.00	SALTO NETWORKED CONTROLLER	CU4CE0US		SALTO
1.00	VONDUPRIN 9949F	CABLE 9949 FIRE RATED	CLR	VONDUPRIN
1.00	VONDUPRIN 9949FQEL	CABLE 9949 FIRE RATED QEL	CLR	VONDUPRIN
1.00 EA	LCN 4040XP EDA	4040 XP W/ EDA ARM	ALUM	LCN
1.00	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1.00	CONTINUOUS HINGE	780-224HD WITH EPT	CLR	HAGER
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00	THRESHOLD	813 - 72" X 8"	ALUM	NGP
1.00 EA	MAGNETIC HOLD OPENS	SEM 7850	689	LCN

HARDWARE GROUP NO. 12

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00 EA	SCHLAGE PRIVACY	ND92PD RHO	626	SCHLAGE
1.50 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	WALL STOP	405	626	ROCKWOOD

HARDWARE GROUP NO. 13

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00 EA	LCN 4040XP EDA	4040 XP W/ EDA ARM	ALUM	LCN
1.00 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD
1.00 EA	PUSH/PULL	110 X 73C/73CL	US32D	ROCKWOOD
1.00 EA	CLASSROOM DEADBOLT	BB663R	US32D	SCHLAGE

HARDWARE GROUP NO. 14

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
1.00	SALTO CARD READER	WRDM04AB	BLACK	SALTO

HARDWARE GROUP NO. 15

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MRF.
3.00 PR	BUTT HINGES	BB1199	US32D	HAGER
1.00 EA	SALTO MINI	CM250N70CSB3	626	SALTO
1.00	MANUAL FLUSH BOLTS	FB 458 (DOOR ON LEFT)	US26D	HES
1.00	DUST PROOF STRIKE	DP2	626	IVES
1.00 EA	OVERHEAD STOP	104F	US32D	GLYNN JOHN
1.00 EA	KICK PLATE	K1050 10" X 2" LDW	US32D	ROCKWOOD.

B1A1

DOOR SCHEDULE

REVISION	DOOR #:	ROOM	DOOR W	DOOR H	DOOR TYPE	DOOR MAT./ SERIES	DOOR SLAB	FRAME MAT.	FRAME TYPE	FIRE RATING	HRDWR GROUP	NOTES	DOOR #:
FIRST FLOOR EXPANSION													
	101	CORRIDOR	7' - 0"	7' - 0"	Double	WD	F	HM	5	90 MIN	11		101
	104	CORRIDOR	6' - 0"	7' - 0"	Double	EX	F	EX			7		104
	105A	CORRIDOR	6' - 0"	7' - 0"	Double	WD	FG	HM	1		6		105A
	105B	CORRIDOR	6' - 0"	7' - 0"	Double	WD	F	HM	1		6		105B
	106A	LOCKER ROOM VESTIBULE	3' - 6"	7' - 0"	Single	ALUM	ST	ALUM	3		9		106A
	106B	LOCKER ROOM VESTIBULE	3' - 6"	7' - 0"	Single	ALUM	ST	ALUM	3		9		106B
	107A	GYMNASIUM	6' - 0"	7' - 0"	Double	WD	FG	HM	4		10		107A
	107B	GYMNASIUM	6' - 0"	7' - 0"	Double	WD	FG	HM	4		10		107B
	108	POOL	6' - 0"	7' - 0"	Double	ALUM	FG	ALUM	1		8		108
	109A	LOUNGE	6' - 0"	7' - 0"	Double	ALUM	ST	ALUM			14		109A
	109B	LOUNGE	6' - 0"	7' - 0"	Double	ALUM	ST	ALUM			14		109B
	113	POOL VIEWING	3' - 0"	7' - 0"	Single	WD	FG	HM	1		3		113
	114A	BREAKROOM	6' - 0"	9' - 0"	Double	ALUM		ALUM	6				114A
	114B	BREAKROOM	3' - 6"	7' - 0"	Single	WD	FG	HM	3		3		114B
	115	OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		115
	116	STORAGE	6' - 0"	7' - 0"	Double	WD	F	HM	1		6		116
	117	OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		117
	118	OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		118
	119	OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		119
	120A	POOL OFFICE	3' - 0"	7' - 0"	Single	ALUM	ST	ALUM	2		1		120A
	120B	POOL OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		1		120B
	121	OFFICE	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		121
	122A	JAN.	3' - 0"	7' - 0"	Single	ALUM	F	ALUM	1		2		122A
	122B	JAN.	3' - 0"	7' - 0"	Single	WD	F	HM	1		2	4	122B
	123	RESTROOM	3' - 6"	7' - 0"	Single	WD	F	HM	1		12	4	123
	124	MECHANICAL ROOM	3' - 0"	7' - 0"	Single	EX	F	EX			7		124
	125A	POOL MECHANICAL	6' - 0"	7' - 0"	Double	HM	F	HM	1		6	4	125A
	125B	POOL MECHANICAL	3' - 0"	7' - 0"	Single	ALUM	F	ALUM	1		1	4	125B
	126	POOL WAITING	3' - 6"	7' - 0"	Single	ALUM	ST	ALUM	3		4		126
	127A	MEN'S LOCKER ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		13	3	127A
	127B	MEN'S LOCKER ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		5	3	127B
	128A	WOMENS LOCKER ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		13	3	128A
	128B	WOMENS LOCKER ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		5	3	128B
	129	FAMILY CHANGING ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		12	3	129
	130	FAMILY + ASST.USE CHANGING ROOM	3' - 6"	7' - 0"	Single	HM	F	HM	1		12	3	130
	131	RESTROOM	3' - 6"	7' - 0"	Single	WD	F	HM	1		12	4	131
	132	RESTROOM	3' - 6"	7' - 0"	Single	WD	F	HM	1		12	4	132
	140	POOL STORAGE	6' - 0"	7' - 0"	Double	ALUM	F	ALUM	1		6		140
	141	GYMNASIUM STORAGE	6' - 0"	7' - 0"	Double	EX	F	EX	-		6	2	141
	142	GYMNASIUM STORAGE	6' - 0"	7' - 0"	Double	EX	F	EX	-		6	2	142
B1A1	143	CHLORINE	4' - 6"	7' - 0"	Double	HM	F	HM	1		15	3	143
	144	MURIATIC ACID	3' - 0"	7' - 0"	Single	HM	F	HM	1		1	3	144
FIRST FLOOR													
	103	CORRIDOR	7' - 0"	7' - 0"	Double	WD	F	HM	5	90 MIN	11		103
	E132	MEETING ROOM	3' - 0"	7' - 0"	Single	WD	F	HM	2		3		E132

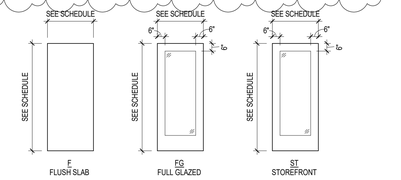
DOOR HARDWARE GENERAL NOTES:

- ALL DOOR HARDWARE TO BE PROVIDED BY MMSD
- GENERAL CONTRACTOR TO INSTALL ALL DOOR FRAMES, INSTALL HINGES, AND SET DOORS. MMSD TO INSTALL ALL OTHER REMAINING HARDWARE

DOOR HARDWARE NOTES:

1. EXISTING DOOR AND DOOR FRAME TO REMAIN. PROVIDE NEW DOOR HARDWARE ONLY AS SCHEDULED.
2. EXISTING DOOR AND FRAME RELOCATED TO THIS LOCATION. PROVIDE NEW DOOR HARDWARE ONLY AS SCHEDULED
3. HOLLOW METAL DOOR AND FRAME TO BE METALLIC-COATED STEEL SHEET - PER SPECIFICATIONS
4. PROVIDE 1" UNDERCUT AT DOOR

B1A1



*ALL WOOD DOORS TO MATCH EXISTING DOOR IN EXISTING MSCR SPACE - MASONITE ARCHITECTURAL, ASPIRO SERIES, RED OAK, PLAIN SLICED, FINISH: ROLLED OATS

*ALL ALUMINUM STOREFRONT TO BE CLEAR ANODIZED, UNLESS NOTED OTHERWISE

DOOR SLAB TYPES

SCALE:NTS

SINGLE DOOR

(FACE DOOR FROM OUTSIDE OR KEYSIDE)

LEFT HAND - LH
HINGES ON LEFT OPENS INWARD

LEFT HAND REVERSE - LHR
HINGES ON LEFT OPENS OUTWARD

RIGHT HAND - RH
HINGES ON RIGHT OPENS INWARD

RIGHT HAND REVERSE - RHR
HINGES ON RIGHT OPENS OUTWARD

DOUBLE DOOR

(FACE DOOR FROM OUTSIDE OR KEYSIDE)

LEFT HAND - LH
HINGES ON LEFT OPENS INWARD

LEFT HAND REVERSE - LHR
HINGES ON LEFT OPENS OUTWARD

RIGHT HAND - RH
HINGES ON RIGHT OPENS INWARD

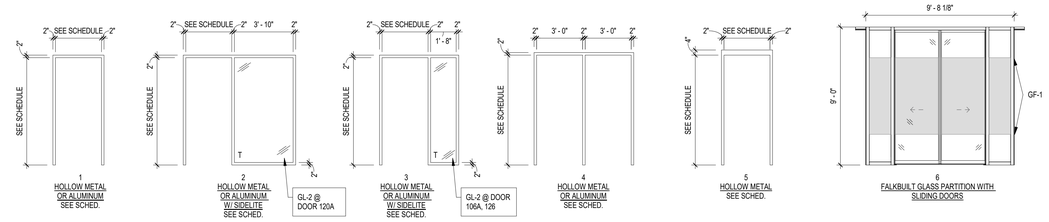
RIGHT HAND REVERSE - RHR
HINGES ON RIGHT OPENS OUTWARD

GLAZING SCHEDULE

MARK	TYPE	TINT	TREATMENT	SHGC	U-VALUE
GL-1	1" GLAZING	CLEAR	LAMINATED	-	-
GL-2	1" INSULATING, LOW-E, ARGON	CLEAR	FULLY TEMPERED	0.40 (MIN)	0.28 (COG)
GL-3	1/4" GLAZING	CLEAR	LAMINATED		
GL-4	1/4" GLAZING	CLEAR	FULLY TEMPERED		

GLAZING NOTES:

1. DIMENSIONS FOR WINDOW OPENINGS ARE TO MASONRY OPENING
2. STOREFRONT SYSTEM BASIS OF DESIGN: KAWNEER TRIFAB VERSAGLAZE 451T FRAMING SYSTEM, CENTER GLAZED
3. ALL ALUMINUM STOREFRONT FRAMING TO BE CLEAR ANODIZED



DOOR FRAME TYPES

SCALE: 1/4" = 1'-0"

ICONICA
901 DEMING WAY // MADISON, WI 53717
Ph: 608.664.3500
https://iconicacreates.com/

MSCR WEST RECREATION CENTER EXPANSION

733 N TOWNE WAY
MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
DOOR AND HARDWARE SCHEDULES

Project Number: 20250550

Sheet Number
A711

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REFLECTED CEILING PLAN GENERAL NOTES:

1. CENTER ALL RECESSED LIGHTING FIXTURES AND SIMILAR CEILING ELEMENTS IN CEILING TILE.
2. SEE DIMENSIONS ON PLAN TO PLACE RECESSED LIGHTING FIXTURES IN GWB SOFFITS.
3. ALL CEILINGS ABOVE FINISHED FLOOR, 99'-0", UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN LEGEND:

10'-10" ACP-X — CEILING HEIGHT ABOVE FINISHED FLOOR / CEILING TYPE

ACT-1:
USG - MARS HIGH NRC (80/35)
2'X2'X7/8" FINELINE BEVELED PANEL - FLAT WHITE
USG DONN CENTRICITEE DXT
9/16" SUSPENSION SYSTEM - FLAT WHITE

ACT-2:
ARMSTRONG - CERAMAGUARD FINE FISSURED
2'X2'X5/8" PANEL - WHITE
ARMSTRONG - PRELUDE PLUS XL ALUMINUM
15/16" SUSPENSION SYSTEM - WHITE

ACB:
(10) ACOUSTICAL CEILING CLOUDS
5'-8" x 7'-6"
ARKTURA ATMOSPHERIC STANDARD FLOW SOFT SOUND WHITE

GWB:
5/8" GYP. BOARD OVER STEEL STUD FRAMING @ 24" O.C.

NOTE:
ARKTURA PRODUCTS REP. CONTACT: ALYSSIA MAGNUSON
TWO POINT
ALYSSIA@TWOPOINT.CO

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1 A801 **FIRST FLOOR EXPANSION - REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

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MSCR WEST RECREATION CENTER EXPANSION

7331 W TOWNE WAY
MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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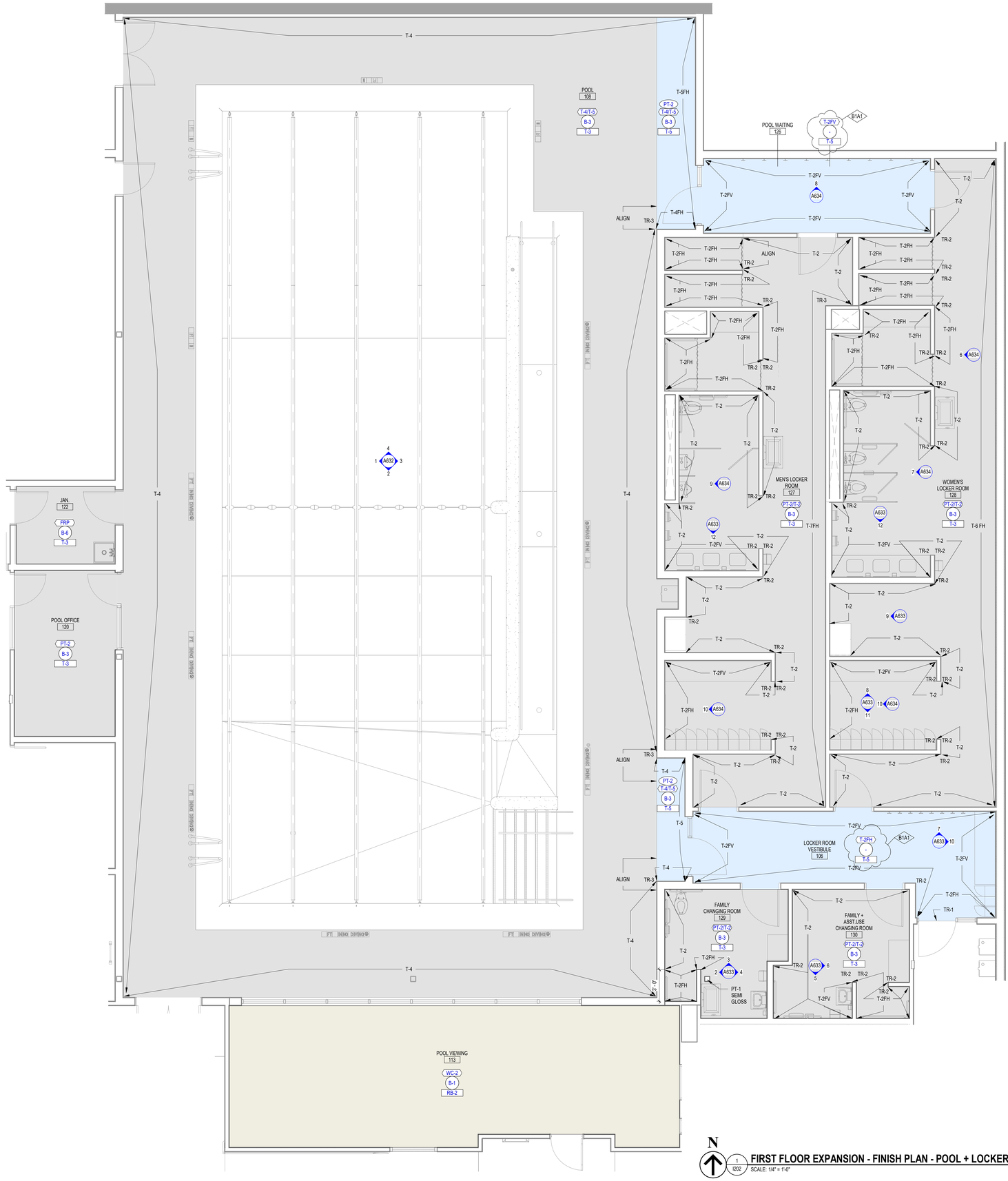
Sheet Title
FIRST FLOOR EXPANSION - REFLECTED CEILING PLAN

Project Number: 20250550

Sheet Number
A801

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1 I202 **FIRST FLOOR EXPANSION - FINISH PLAN - POOL + LOCKER ROOM AREA**

SCALE: 1/4" = 1'-0"

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901 DEMING WAY // MADISON, WI 53717
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MSCR WEST RECREATION CENTER EXPANSION

7333 W TOWNE WAY
MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
FIRST FLOOR EXPANSION - FINISH PLAN - POOL & LOCKER ROOM AREA

Project Number: 20250550

Sheet Number
I202

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GLASS FILM

GF-1	MANUF:	NUVISION
	NAME:	CUSTOM 60" WIDE DUAL GRADIENT FROST BAND
	LOCATIONS:	BREAK ROOM DOOR SYSTEM 114A (SLIDING DOORS AND SIDE GLAZING PANELS)
	CONTACT:	JUSTIN HELD JUSTIN.HELD@MESOBUILT.COM
GF-2	MANUF:	3M
	NAME:	PRESTIGE 20
	NOTE:	20% VISUAL LIGHT TRANSMITTANCE
	INSTALLATION:	INTERIOR SIDE OF GLASS PANELS
	LOCATIONS:	SKYLIGHT ABOVE BREAK ROOM 114
	CONTACT:	DAVE DANIELS - WINDOW ENHANSEMENTS, LLC DAVE@WELLCWI.COM

SOLID SURFACE + QUARTZ

SS-1	MANUF:	CORIAN
	NAME:	CANVAS
	LOCATIONS:	WINDOW SILLS IN OFFICE 115, 117, 119, 121 AND BREAK ROOM 114
QTZ-1	MANUF:	LINNSTONE
	STYLE:	5015 BYRON WHITE
	LOCATIONS:	BREAK ROOM 114 COUNTER TOPS
	NOTE:	SEE INTERIOR ELEVATIONS FOR LOCATIONS
QTZ-2	MANUF:	CORIAN QUARTZ
	STYLE:	CLOUD WHITE
	LOCATIONS:	LOCKER ROOM VANITY COUNTER TOPS
	NOTE:	SEE INTERIOR ELEVATION FOR LOCATION

BASE

B-1	MANUF:	JOHNSONITE
	TYPE:	MILLWORK WALL BASE SYSTEM
	STYLE:	MONUMENT
	COLOR:	09 CLAY
	SIZE:	4"
	NOTE:	SEE FINISH PLAN FOR LOCATIONS
B-2	MANUF:	DALTILE
	PRODUCT:	MODERNIST
	COLOR:	SORIANO CLAY MD87
	SIZE:	44" X 24"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	56 DESERT KHAKI
	LOCATIONS:	RESTROOM 123, RESTROOM 131, RESTROOM 132
	NOTE:	CAP W/ SCHLUTER SCHIENE IN GRIEGE
	CONTACT:	DANIELLE WEYMAN DANIELLE.WEYMAN@DALTILE.COM
B-3	MANUF:	DALTILE
	STYLE:	MB4C
	COLOR:	MOONSHINE D117
	SIZE:	KEYSTONE 1"X1"-4" PC x 12"PC BUILD-UP BASE
	NOTE:	TO BE USED WITH FLOORS RECEIVING T-3
B-4	MANUF:	JOHNSONITE
	TYPE:	VENT COVE
	COLOR:	47 BROWN
	NOTE:	GYMNASIUM 107
B-5	MANUF:	JOHNSONITE
	TYPE:	4" TRADITIONAL VINYL WALL BASE
	COLOR:	47 BROWN
	NOTE:	GYMNASIUM STORAGE 141 AND 142
B-6	MANUF:	JOHNSONITE
	TYPE:	4" TRADITIONAL VINYL WALL BASE
	COLOR:	09 CLAY
	NOTE:	STORAGE 116 AND JANITOR 122

SHOE / BOOT MAT

SM-1	MANUF:	DROP ZONE MATS (ETSY STORE) http://bit.ly/41sTlkq
	NAME:	CUSTOM BOOT / SHOE MAT
	SIZE:	12" X16"
	COLOR:	BEIGE
	LOCATIONS:	ONE IN EACH CUBBY IN TIERED SEATING IN CORRIDOR 102. SEE A/636

SENSORY PLAY EQUIPMENT

SP-1 SP-2 SP-3	MANUF:	SOUTHPAW ENTERPRISES
	TYPE:	SET OF 3 SENSORY INPUT ACTIVITY PANELS
	STYLE:	SKU #: SPW-303801
	NOTE:	REHABMART.COM
	LOCATIONS:	FIRST LEVEL OF PLAY AREA - SEE INTERIOR ELEVATIONS
SP-4	MANUF:	SOUTHPAW ENTERPRISES
	NAME:	LARGE MARVELOUS MARBLE SENSORY WALL PANEL
	STYLE:	SKU #: SPW-303807
	NOTE:	REHABMART.COM
	LOCATIONS:	FIRST LEVEL OF PLAY AREA - SEE INTERIOR ELEVATIONS

VANITY SINK

VS-1	MANUF:	CORIAN
	TYPE:	SOLID SURFACE UNDERMOUNT SINK
	STYLE:	8254 LAVATORY W/ OVERFLOW
	COLOR:	GLACIER WHITE
	LOCATIONS:	LOCKER ROOM VANITIES

CORNER GUARDS

CG-1	MANUF:	INPRO
	TYPE:	TAPE ON CORNER GUARD
	SIZE:	4" HIGH W/ 1 1/2" WING SIZE
	COLOR:	DESIGNER WHITE
	LOCATIONS:	SEE INTERIOR FINISH FLOOR PLAN
CG-2	MANUF:	INPRO
	TYPE:	TAPE ON CORNER GUARD
	SIZE:	4" HIGH W/ 1 1/2" WING SIZE
	COLOR:	BLUE MIST
	LOCATIONS:	SEE INTERIOR FINISH FLOOR PLAN
CG-3	MANUF:	INPRO
	TYPE:	TAPE ON CORNER GUARD
	SIZE:	4" HIGH W/ 1 1/2" WING SIZE
	COLOR:	CRYSTAL JADE
	LOCATIONS:	SEE INTERIOR FINISH FLOOR PLAN

WOOD

WD-1	TYPE:	BALTIC BIRCH PLYWOOD BALTIC BIRCH VENEER BALTIC BIRCH EDGE BANDING
	GRADE:	B/BB
	NOTE:	NO EXPOSED EDGES. USE MATCHING BALTIC BIRCH EDGE BANDING OR VENEER AS NEEDED

RUBBER FLOORING

RB-1	MANUF:	INTERFACE / NORA
	PRODUCT:	NORAMENT CASTELLO
	COLOR:	5358 CATHEDRAL
	SIZE:	39.53" x 39.53"
	INSTALLATION:	DIRECTIONAL
	LOCATIONS:	SEE INTERIOR FINISH PLANS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM
RB-2	MANUF:	INTERFACE / NORA
	PRODUCT:	NORAMENT CASTELLO
	COLOR:	5357 PALAIS
	SIZE:	39.53" x 39.53"
	INSTALLATION:	DIRECTIONAL
	LOCATIONS:	SEE INTERIOR FINISH PLANS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM

CARPET

CPT-1	MANUF:	INTERFACE
	NAME:	NET EFFECT
	STYLE #:	B601
	COLOR:	SAND
	SIZE:	1M X 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	LOUNGE 109, LOUNGE 110, LOUNGE 111
	NOTE:	SEE FINISH PLAN FOR LOCATIONS AND EXTENTS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM
CPT-2	MANUF:	INTERFACE
	NAME:	NET EFFECT
	STYLE #:	B601
	COLOR:	ATLANTIC
	SIZE:	1M X 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	PLAY 112A, PLAY 112B
	NOTE:	SEE FINISH PLANS FOR LOCATIONS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM
CPT-3	MANUF:	INTERFACE
	NAME:	EMBODIED BEAUTY
	STYLE:	SASHIKO STITCH
	COLOR:	ALBA
	SIZE:	25 CM x 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	OFFICE 115, OFFICE 117, OFFICE 118, OFFICE 119, OFFICE 121
	NOTE:	SEE FINISH PLAN FOR CPT DIRECTION
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM

VINYL FLOORING

LVT-1	MANUF:	INTERFACE
	NAME:	BRUSHED LINES
	COLOR:	PARRAFFIN
	SIZE:	25 CM X 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	IN EXISTING MSCR SPACE - SEE FINISH PLANS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM
LVT-2	MANUF:	INTERFACE
	NAME:	BRUSHED LINES
	COLOR:	SANDALWOOD
	SIZE:	25 CM X 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	N EXISTING MSCR SPACE - SEE FINISH PLANS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM
LVT-3	MANUF:	INTERFACE
	NAME:	BRUSHED LINES
	COLOR:	ALABASTER
	SIZE:	25 CM X 1M
	INSTALLATION:	ASHLAR
	LOCATIONS:	IN EXISTING MSCR SPACE - SEE FINISH PLANS
	CONTACT:	BRITT RESHESKE BRITT.RESHESKE@INTERFACE.COM

SPORTS FLOORING

SF-1	MANUF:	ECOSURFACES
	NAME:	FOREST RX 3380
	COLOR:	AMERICAN OAK
	INSTALLATION:	ROLLED SHEET GOOD
	LOCATIONS:	EXIST. STUDIO 149
	NOTE:	LISTED IF NEEDED AFTER DEMO OF EXIST. STORAGE SPACE

GYMNASIUM FLOOR

WF	GYM FLOOR AND BASE PROVIDED BY GYMNASIUM FLOOR MANUF. SEE SPECIFICATION SEE STRIPING DIAGRAM

PLASTIC LAMINATE

PLAM-1	MANUF:	WILSONART
	NAME:	RAW CHESTNUT 795-12
	FINISH:	SOFT GRAIN
	LOCATIONS:	BREAK ROOM 114 / LOCKER ROOM ADA SKIRT / BRADLEY LOCKERS + PARTITIONS
	NOTE:	SEE INTERIOR ELEVATIONS
PLAM-2	MANUF:	WILSONART
	STYLE:	COMPACT LAMINATE
	COLOR:	DESIGNER WHITE
	LOCATIONS:	STORAGE CABINET IN MENS & WOMENS LOCKER ROOM
	NOTE:	SEE INTERIOR ELEVATION
PLAM-3	MANUF:	WILSONART
	COLOR:	EARTHENWARE
	FINISH:	MATTE
	LOCATIONS:	INTERIOR PANELS OF OPEN SHELVING IN BREAK ROOM 114
	NOTE:	SEE INTERIOR ELEVATION

B1A1

CABINET HARDWARE

	MANUF:	TOP KNOBS
	NAME:	MERCER COLLECTION
	STYLE:	EROPA TAB PULL
	FINISH:	BRUSHED SATIN NICKEL
	LOCATIONS:	BREAK ROOM 114

TILE

T-1	MANUF:	DALTILE
	PRODUCT:	MODERNIST
	COLOR:	SORIANO CLAY MD87
	SIZE:	24" X 24"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	56 DESERT KHAKI
	INSTALL:	GRID PATTERN - SEE INTERIOR FLOOR PLAN
	LOCATIONS:	RESTROOM 123, RESTROOM 131, RESTROOM 132
	CONTACT:	DANIELLE WEYMAN DANIELLE.WEYMAN@DALTILE.COM
T-2	MANUF:	DALTILE
	PRODUCT:	ANNAPOLIS REMIX
	COLOR:	SAIL APO6 GLOSSY
	SIZE:	6" X 18"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	44 BRIGHT WHITE
	INSTALL:	HORIZONTAL STACKED BOND
	LOCATIONS:	RESTROOM 123, MEN'S LOCKER ROOM 127, WOMEN'S LOCKER ROOM 128 RESTROOM 131, RESTROOM 132
	NOTE:	SEE INTERIOR ELEVATIONS FOR TILE EXTENTS
	CONTACT:	DANIELLE WEYMAN DANIELLE.WEYMAN@DALTILE.COM
T-2FH T-2FV	MANUF:	DALTILE
	PRODUCT:	ANNAPOLIS REMIX
	COLOR:	SAIL APO6 GLOSSY
	SIZE:	6" X 18"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	44 BRIGHT WHITE
	INSTALL:	VERTICAL OR HORIZONTAL STACKED BOND - SEE INTERIOR ELEVATIONS
	LOCATIONS:	RESTROOM 123, MEN'S LOCKER ROOM 127, WOMEN'S LOCKER ROOM 128 RESTROOM 131, RESTROOM 132
	NOTE:	SEE INTERIOR ELEVATIONS FOR TILE EXTENTS
	CONTACT:	DANIELLE WEYMAN DANIELLE.WEYMAN@DALTILE.COM

T-2FH (FULL HEIGHT HORIZONTAL)

T-2FV (FULL HEIGHT VERTICAL)

T-3	MANUF:	DALTILE
	PRODUCT:	KEYSTONES
	COLOR:	MOONSHINE D117 - MATTE FINISH
	SIZE:	1"X1"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	17 MARBLE BEIGE
	INSTALL:	STRAIGHT SET / GRID
	LOCATION:	FLOOR TILE - POOL 108, POOL OFFICE 120 MEN'S LOCKER ROOM 127, WOMEN'S LOCKER ROOM 128 FAMILY CHANGING ROOM 129, FAMILY + ASST. USE CHANGING ROOM 130
	NOTE:	SEE FINISH PLAN FOR TILE EXTENTS AND LOCATIONS
	CONTACT:	DANIELLE WEYMAN DANIELLE.WEYMAN@DALTILE.COM
T-4	MANUF:	LEXCO TILE AND STONE
	PRODUCT:	MYTHOS
	COLOR:	ELBA - MATTE FINISH
	SIZE:	1"X1"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	96 STEAMSHIP
	INSTALL:	STRAIGHT SET / GRID
	LOCATION:	WALL TILE - POOL 108
	NOTE:	SEE INTERIOR ELEVATION FOR LOCATION AND EXTENTS
	CONTACT:	MARK VAN ESS MVANESS@LEXCOTILE.COM
T-5	MANUF:	LEXCO TILE AND STONE
	PRODUCT:	MYTHOS
	COLOR:	DELFOS - MATTE FINISH
	SIZE:	1"X1"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	53 TWILIGHT BLUE
	INSTALL:	STRAIGHT SET / GRID
	LOCATION:	FLOOR TILE - LOCKER ROOM VESTIBULE 106, POOL 108 POOL WAITING 126. WALL TILE - POOL 108
	NOTE:	SEE INTERIOR ELEVATIONS AND PLANS FOR LOCATION AND EXTENTS INTERIOR POOL WALL TRIM - SEE WTI POOL DRAWINGS
	CONTACT:	MARK VAN ESS MVANESS@LEXCOTILE.COM
T-6	MANUF:	LEXCO TILE AND STONE
	PRODUCT:	MYTHOS
	COLOR:	ELBA - GLOSS FINISH
	SIZE:	1"X1"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	96 STEAMSHIP
	INSTALL:	STRAIGHT SET / GRID
	LOCATION:	WALL TILE - WOMEN'S LOCKER ROOM 128
	NOTE:	T-6 TO BE THE HEIGHT OF THE WALL. SEE INTERIOR FINISH PLAN FOR EXTENTS
	CONTACT:	MARK VAN ESS MVANESS@LEXCOTILE.COM
T-7	MANUF:	LEXCO TILE AND STONE
	PRODUCT:	MYTHOS
	COLOR:	DELFOS - GLOSS FINISH
	SIZE:	1"X1"
	GROUT TYPE:	LATICRETE SPECTRALOCK PRO PREMINUM GROUT
	GROUT COLOR:	53 TWILIGHT BLUE
	INSTALL:	STRAIGHT SET / GRID
	LOCATION:	WALL TILE - MEN'S LOCKER ROOM 127
	NOTE:	T-7 TO BE THE HEIGHT OF THE WALL. SEE INTERIOR FINISH PLAN FOR EXTENTS
	CONTACT:	MARK VAN ESS MVANESS@LEXCOTILE.COM
T-8	MANUF:	LEXCO TILE AND STONE
	PRODUCT:	MATT & MORE
	COLOR:	WHITE ARCH DECO
	SIZE:	10"X30"
	GROUT TYPE:	LATICRETE
	GROUT COLOR:	TBD
	INSTALL:	VERTICAL STACK
	LOCATION:	BREAK ROOM 114
	NOTE:	SEE INTERIOR FINISH PLAN FOR EXTENTS
	CONTACT:	MARK VAN ESS MVANESS@LEXCOTILE.COM

STAIN

ST-1	MANUF:	SHERWIN WILLIAMS
	NAME:	MINWAX
	COLOR:	MW 423 WHITEWASH
	COMMENTS:	BUILT-IN BENCHES IN FAMILY CHANGING ROOM 129, FAMILY + ASST. USE CHANGING ROOM 130, LOCKER ROOM VESTIBULE 106, MEN'S LOCKER ROOM 127 AND WOMEN'S LOCKER ROOM 128
	NOTE:	PROVIDE STAIN SAMPLE ON WOOD SPECIES USED FOR BENCH TO ICONICA FOR FINAL APPROVAL

UPHOLSTERY FABRIC

FB-1	MANUF:	MAHARAM
	STYLE:	ARTICLE
	COLOR:	039 DESERT
	NUMBER:	458600
	LOCATION:	SEATING OBJECT A IN LOUNGE 110
	NOTE:	SEE INTERIOR ELEVATIONS
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
FB-2	MANUF:	MAHARAM
	STYLE:	ELM
	COLOR:	012 FOXTAIL
	NUMBER:	466557
	LOCATION:	SEATING AND BACK REST ADJACENT TO RESTROOM 131 + 132
	NOTE:	SEE INTERIOR ELEVATIONS
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
FB-3	MANUF:	MAHARAM
	STYLE:	SORT
	COLOR:	002 HORIZON
	NUMBER:	466273
	LOCATION:	SEATING OBJECT B IN LOUNGE 111
	NOTE:	SEE INTERIOR ELEVATIONS
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
FB-4	MANUF:	KNOLL TEXTILES
	STYLE:	VAST
	COLOR:	009 HORIZON
	NUMBER:	466945
	LOCATION:	BUILT-IN SEATING ADJACENT TO LOUNGE 111
	NOTE:	SEE INTERIOR ELEVATIONS
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
FB-5	MANUF:	KNOLL TEXTILES
	STYLE:	PRAIRIE
	COLOR:	005 FOX
	NUMBER:	466762
	LOCATION:	CUSHIONS + BOLSTERS IN LOUNGE 109
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
FB-6	MANUF:	KNOLL TEXTILES
	STYLE:	PRAIRIE
	COLOR:	025 TEA LEAF
	NUMBER:	466762
	LOCATION:	CUSHIONS ON TIERED SEATING IN CORRIDOR 102
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM

PAINT

PT-1	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	SUPER WHITE
	NUMBER:	OC-152
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-2	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	CONSTELLATION
	NUMBER:	AF-540
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-3	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	SERENATA
	NUMBER:	AF-535
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-4	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	ATMOSPHERIC
	NUMBER:	AF-500
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-5	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	ANJOU PEAR
	NUMBER:	AF-425
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-6	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	ITALIANTE
	NUMBER:	AF-215
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-7	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	PADDINGTON BLUE
	NUMBER:	791
	FINISH:	SEE FINISH NOTES
	NOTE:	SEE FINISH PLAN, FINISH NOTES AND INTERIOR ELEVATIONS FOR LOCATIONS
PT-8	MANUF:	BENJAMIN MOORE
	PRODUCT:	SCUFF-X
	COLOR:	MASADA
	NUMBER:	AF-220
	FINISH:	SEE FINISH NOTES
	NOTE:	BREAK ROOM 114 AND PLAY 112A. SEE INTERIOR ELEVATIONS FOR LOCATIONS

TRANSITIONS

TR-1	MANUF:	SCHLUTER SYSTEMS
	PRODUCT:	RENO-U
	FINISH:	ANODIZED ALUMINUM
	LOCATION:	RUBBER FLOOR TILE TO FLOOR TILE / RUBBER TILE TO SEALED CONCRETE
	COMMENTS:	FLOORING SUBCONTRACTOR TO EITHER CONFIRM SELECTION OR MAKE RECOMMENDATION
TR-2	MANUF:	SCHLUTER SYSTEMS
	PRODUCT:	FINEC-SQ
	FINISH:	MATTE WHITE
	LOCATION:	OUTSIDE CORNERS. SEE FINISH PLANS AND INTERIOR ELEVATIONS.
TR-3	MANUF:	SCHLUTER SYSTEMS
	PRODUCT:	FINEC-SQ
	FINISH:	GREIGE
	LOCATION:	OUTSIDE CORNERS. SEE FINISH PLANS AND INTERIOR ELEVATIONS.
TR-4	MANUF:	SCHLUTER SYSTEMS
	PRODUCT:	QUADEC
	FINISH:	MATTE WHITE
	LOCATION:	SEE FINISH PLANS AND INTERIOR ELEVATIONS.

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WALLCOVERING

WC-1	MANUF:	KNOLL TEXTILES
	STYLE:	BESPOKE WALL
	NAME:	WC2339
	COLOR:	GOLDFINCH
	WIDTH:	50"
	NOTE:	SEE PLANS FOR LOCATIONS. REFER TO MANUF. INSTALLATIONS INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	CARA MCDONOUGH CMCDONOUGH@MAHARAM.COM
WC-2	MANUF:	REBEL WALLS
	NAME:	R20632 SWIMMERS - COMMERCIAL GRADE
	COLOR:	BLUE
	LOCATION:	POOL VIEWING 113 - ALL WALLS
	NOTE:	SEE PLANS FOR LOCATIONS. REFER TO MANUF. INSTALLATIONS INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL

ACOUSTIC WALL COVERING + PANELS

AWC-1	MANUF:	FILZFELT
	STYLE:	3 MM (1/8") WOOL DESIGN FELT
	COLOR:	686 ENZIAN
	WIDTH:	180 CM (70 3/4 IN)
	LOCATION:	BOOTH WALL PANELING IN LOUNGE 109. SEE ELEVATIONS FOR LOCATIONS.
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AWC-2	MANUF:	FILZFELT
	STYLE:	3 MM (1/8") WOOL DESIGN FELT
	COLOR:	551 EIS
	WIDTH:	180 CM (70 3/4 IN)
	LOCATION:	BOOTH WALL PANELING IN LOUNGE 109. SEE ELEVATIONS FOR LOCATIONS.
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-1	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	A
	COLOR / HEIGHT:	551 EIS / 11'-0"
	LOCATION:	INTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-A	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	A
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-B	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	B
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-C	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	C
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-D	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	D
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-E	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	E
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM
AP-F	MANUF:	FILZFELT
	NAME:	ARO PLANK 1
	STYLE:	F
	COLOR / HEIGHT:	467 SAND / 11'-11"
	LOCATION:	EXTERIOR OF SENSORY SPACE 145
	NOTE:	REFER TO MANUF. INSTALLATION INSTRUCTIONS FOR REQUIRED WALL PREP AND INSTALL
	CONTACT:	AMY MAYER AMAYER@SPINNEYBECK.COM

FIBERGLASS REINFORCED PLASTIC

FRP	MANUF:	MARLITE
	STYLE:	STANDARD FRP PANELS
	COLOR:	P100 WHITE
	FINISH:	PEBBLED
	SIZE:	ABOVE COVED TILE BASE TO CEILING
	LOCATION:	JANITOR 122
	NOTE:	USE ASSOCIATED PVC WHITE TRIM PIECES AS REQUIRED

WINDOW TREATMENT

WT	MANUF:	IN PRO
	TYPE:	MANUAL CLUTCH ROLLER SHADE
	STYLE:	H100 SOLOMOUNT
	FABRIC COLOR:	10 WHITE
	LOCATIONS:	EXTERIOR WINDOW OF OFFICE 115, 117, 119, 121 AND BREAK ROOM 114

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MSCR WEST RECREATION CENTER EXPANSION

7330 W TOWNE WAY
MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
FIRST FLOOR EXPANSION - FINISH SCHEDULE

Project Number: 20250550

Sheet Number
I210

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STRUCTURAL STEEL NOTES

1. SEE SPECIFICATION DIVISION 05 SECTION OR REQUIREMENTS IN ADDITION TO THOSE LISTED BELOW.

2. PROVIDE NEW MATERIAL CONFORMING TO THE FOLLOWING REQUIREMENTS FOR ALL STRUCTURAL STEEL:

WIDE FLANGE SHAPES (ASTM A992)	Fy = 50 ksi; Fu = 65 ksi
M, S, HP, C, MC, AND L SHAPES (ASTM A36)	Fy = 36 ksi; Fu = 58 ksi
RECTANGULAR HSS SHAPES (ASTM A500-B)	Fy = 46 ksi; Fu = 58 ksi
ROUND HSS SHAPES (ASTM A500-B)	Fy = 42 ksi; Fu = 58 ksi
CARBON STEEL PIPE (ASTM A53-B)	Fy = 35 ksi; Fu = 60 ksi
PLATES AND BARS (ASTM A36)	Fy = 36 ksi; Fu = 58 ksi

3. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES INDICATED.

4. PERFORM ALL WELDING USING CERTIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE – STEEL".

5. SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL. SCHEDULE SUBMISSIONS TO ALLOW ADEQUATE TIME FOR REVIEW PRIOR TO FABRICATION.

6. DETAIL ALL BEAMS FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS TO ALLOW FOR HORIZONTAL FIELD TOLERANCES AND THERMAL MOVEMENT. PROVIDE CONNECTION DETAILS REQUIRED BY THE SPECIFIC CONSTRUCTION SEQUENCES.

7. PROVIDE SUITABLE BEARING PLATES AND ANCHOR RODS FOR BEAMS, JOISTS, OR GIRDERS WHICH BEAR ON WALLS. LOCATE ITEMS USING TEMPLATES OR SIMILAR METHODS. SET ALL PLATES IN FULL BEDS OF NON-SHRINK GROUT. COMPLETELY FILL ALL BEAM AND COLUMN POCKETS WITH CONCRETE PRIOR TO CASTING CONCRETE ABOVE.

8. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE REQUIRED FIRE RATINGS AND UL ASSEMBLY NUMBERS

9. DO NOT FIELD CUT ANY STRUCTURAL STEEL UNLESS REVIEWED AND APPROVED IN WRITING BY THE EOR. CLEARLY INDICATE ALL STEEL MEMBER OPENINGS REQUIRED ON THE SHOP DRAWINGS. ALL COSTS FOR PROVIDING PENETRATIONS IN THE FIELD, INCLUDING MEMBER REINFORCING, IS THE RESPONSIBILITY OF THE CONTRACTOR.

10. ERECTION PROCEDURES, SEQUENCES AND COORDINATION OF WORK WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE ANY ADDITIONAL STEEL REQUIRED FOR ERECTION PURPOSES AT NO COST TO THE OWNER. REMOVE THIS ADDITIONAL STEEL UNLESS DIRECTED OTHERWISE BY THE OWNER IN WRITING.

11. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE STRUCTURE. LEAVE TEMPORARY BRACING IN PLACE UNTIL THE PERMANENT STRUCTURAL LATERAL LOAD RESISTING SYSTEM IS COMPLETE, INCLUDING FLOOR AND ROOF DIAPHRAGMS. PERFORM FINAL BOLTING AND WELDING ONLY ON THOSE PORTIONS OF THE STRUCTURE THAT HAVE BEEN ALIGNED AND PLUMBED WITHIN THE SPECIFIED TOLERANCES.

12. GROUT COLUMN BASE PLATES AFTER BUILDING FRAME HAS BEEN ALIGNED AND PLUMBED, AND PRIOR TO PLACEMENT OF CONCRETE FLOOR SYSTEMS (CIP CONCRETE SLABS, SLABS ON STEEL DECK, PRECAST, ETC). GROUT BEAM BEARING PLATES AFTER BEAM ALIGNMENT AND PRIOR TO PLACEMENT OF FLOOR SYSTEMS. MINIMUM GROUT STRENGTH EQUALS THE HIGHER OF 6000 PSI OR THE INDICATED COMPRESSIVE STRENGTH OF THE CONCRETE THE COLUMN IS BEARING ON.

13. SEE DETAIL 1/S003 FOR INSPECTION REQUIREMENTS

14. ALL STRUCTURAL STEEL IN DIRECT CONTACT WITH FIRE RETARDANT TREATED (FRT) OR PRESERVATIVE TREATED LUMBER MUST BE WRAPPED WITH A BARRIER MEMBRANE (GRACE VYCOR DECK PROTECTOR OR EQUAL). ALL FASTENERS ATTACHING TREATED LUMBER TO STEEL MUST BE GALVANIZED.

15. LONG SLOTTED HOLES ARE PERMITTED ONLY WHERE SHOWN IN THE CONSTRUCTION DOCUMENTS. IF SHOWN, 5/16" PLATE WASHERS ARE REQUIRED AT ALL LOCATIONS. ALTERNATIVELY, A CONTINUOUS BAR BETWEEN LONG SLOTTED HOLES MAY BE USED.

16. ALL EXTERIOR STEEL TO BE GALVANIZED OR COATED WITH HIGH PERFORMANCE PAINT UNLESS NOTED OTHERWISE ON PLAN. VERIFY EXACT COATING REQUIREMENT WITH ARCHITECT.

STEEL DECK NOTES

1. SEE SPECIFICATION SECTION 05310 FOR ADDITIONAL INFORMATION.

2. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF POUR STOPS.

3. ROOF DECK END LAPS SHALL OCCUR AT SUPPORTS WITH A 4" MINIMUM LAP LENGTH EXTENDING PAST THE CENTERLINE OF THE SUPPORTS AS SHOWN.

4. DECK SHALL BE STORED OFF GROUND WITH ONE END ELEVATED TO PROVIDE DRAINAGE AND SHALL BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING, VENTILATED TO AVOID CONDENSATION.

5. WELD WASHERS SHALL BE USED AT ALL INTERMEDIATE AND END OF PANEL WELDS FOR DECKING 24 GAUGE AND THINNER.

6. UNLESS NOTED OTHERWISE ON DRAWINGS, FLOOR DECK SHALL BE 2" 18 GAUGE GALVANIZED COMPOSITE DECK MEETING THE FOLLOWING MINIMUM DECK SECTION PROPERTIES:

Ip =	0.559 in4
Sp =	0.495 in3
In =	0.558 in4
Sn =	0.504 in3
Fy =	50 KSI

B1A1

7. UNLESS NOTED OTHERWISE ON DRAWINGS, ROOF DECK SHALL BE 1 1/2" 20 GAUGE PAINTED ROOF DECK MEETING THE FOLLOWING MINIMUM DECK SECTION PROPERTIES:

Ip =	0.197 in4
Sp =	0.224 in3
In =	0.217 in4
Sn =	0.229 in3
Fy =	50 KSI

8. FLOOR DECK ATTACHMENT
   TYPICAL FLOOR DECK FASTENING (UNLESS NOTED OTHERWISE)

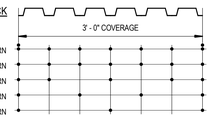
   DECK FASTENERS AT SUPPORTS: 5/8" PUDDLE WELDS AT 12" OC
   DECK FASTENING AT SIDE LAPS: #10 TEK SCREWS AT 36" OC

9. ROOF DECK ATTACHMENT
   TYPICAL ROOF DECK FASTENING (UNLESS NOTED OTHERWISE)

   DECK FASTENERS AT SUPPORTS: 5/8" PUDDLE WELDS AT 36/5 PATTERN
   DECK FASTENING AT SIDE LAPS: #10 TEK SCREWS AT 12" OC MAX

10. UNLESS NOTED ON THE DRAWINGS, DECK SHALL BE FASTENED AT ALL EDGE SUPPORTS, INTERMEDIATE SUPPORTS, AND PANEL LAPS. SHEAR STUDS REQUIRED ON COMPOSITE BEAMS MAY BE CONSIDERED EQUIVALENT TO ABOVE DECK WELDS ON A ONE TO ONE BASIS.

1 1/2" ROOF DECK



2" COMPOSITE FLOOR DECK



COLD FORMED STEEL FRAMING

1. MATERIAL SPECIFICATIONS

   COLD FORMED STUDS, JOISTS, AND TRACKS ASTM C955 & ASTM A1003
   Fy=50 KSI, Fu=65 KSI (16 GAGE AND THICKER)
   Fy=33 KSI, Fu=45 KSI (18 GAGE AND THINNER)

2. GALVANIZED FINISHES: ALL COLD FORMED MEMBERS SHALL BE FORMED OF STEEL HAVING THE FOLLOWING GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653:
   STUDS, JOISTS, TRACK, BRIDGING, AND ACCESSORIES: G-60 GALVANIZED FINISH UNOALL MEMBERS EXPOSED TO WEATHER: G90 GALVANIZED FINISH. JOIST RITE JOISTS : G90 GALVANIZED FINISH.

3. COLD FORMED STEEL STUDS (S) AND TRACKS (T) SHALL CONFORM TO THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STANDARDS.

4. ALL COLD FORMED STEEL FASTENERS SHOWN ON DRAWINGS ARE BY MARINO. SUBSTITUTIONS FOR THESE ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

5. HEAVIER GAUGE MATERIAL MAY BE SUBSTITUTED BY CONTRACTOR IF DESIRED.

6. WHEN PROVIDED, FACTORY PUNCH-OUTS WILL BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF MEMBERS AND WILL HAVE A CENTER-TO-CENTER SPACING OF 24". PUNCH-OUTS WILL HAVE A MAXIMUM WIDTH = HALF THE MEMBER DEPTH (d/2) OR 2-1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH = 4-1/2". THE MINIMUM DISTANCE BETWEEN THE END OF A MEMBER AND THE NEAREST EDGE OF THE WEB PUNCH-OUT SHALL BE 10".

7. THE CONTRACTOR SHALL SUBMIT COLD FORMED STEEL SHOP DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWING SHALL INCLUDE:
   A. PLANS INDICATING MEMBER SIZES AND LOCATIONS
   B. SECTIONS INDICATING COLD FORMED STEEL MEMBER CONNECTIONS

8. PROVIDE TOP AND BOTTOM TRACKS AT ALL WALLS. ALL TRACKS SHALL BE THE SAME GAUGE AS THE STUDS FRAMING INTO THEM UNLESS NOTED OTHERWISE.

   EXCEPTION: ALL TRACKS FASTENED INTO FOUNDATION SHALL BE 600S125-68 UNO

9. FIELD CUTTING OF COLD FORMED STEEL SHALL BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD FORMED MEMBERS IS NOT ACCEPTABLE.

10. NO NOTCHING OR COPING OF COLD FORMED MEMBERS IS ALLOWED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

11. ALL HEADERS AND BEAMS SHALL BE CONSTRUCTED WITH UNPUNCHED MATERIAL.

12. SPLICING OF WALL STUDS MUST CONFORM TO THE DETAILS SHOWN IN THIS DRAWING SET.

13. ALL BEARING AND SHEAR WALLS SHALL HAVE BRIDGING AT 48" OC MAX. STUD SUPPLIER TO. SUBMIT BRIDGING WITH SHOP DRAWINGS FOR REVIEW.

14. ANY COLD FORMED STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THESE DRAWINGS SHALL BE DESIGNED & DETAILED BY THE COLD FORMED STEEL ENGINEER.

15. MINIMUM SCREW SPACING SHALL BE 3d
    MINIMUM SCREW EDGE SPACING SHALL BE 1.5d.

16. CFS JOIST WEB KNOCKOUTS SHALL NOT OCCUR A DISTANCE LESS THAN THE JOIST BEARING LENGTH + 4" FROM END OF JOIST.

17. THICKNESS OF WELDS TO COLD FORMED STEEL SHALL EQUAL THE THICKNESS OF THE MEMBER BEING WELDED.

DEFERRED SUBMITTALS

1. IN ACCORDANCE WITH THE IBC CHAPTER 1, SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/ BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED AS THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER OR INSTALLER.

2. DEFERRED SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:
   A. ANALYSIS OF EXISTING STEEL ROOF JOISTS TO SUPPORT NEW SKYLIGHTS. THIS WILL REQUIRE FIELD MEASUREMENT OF EXISTING JOIST MEMBER SIZES AND WELDS, COMPUTER MODELING OF THE JOISTS FOR ANALYSIS, AND DESIGN AND DETAILING OF REINFORCEMENT FOR ANY MEMBERS WHICH ARE FOUND TO BE OVERSTRESSED.

B1A1 B. SHORING OF EXISTING STRUCTURE TO REPLACE FOOTINGS

3. SUBMITTALS SHALL INCLUDE:
   A. CALCULATIONS, PREPARED AND SEALED BY AN APPROPRIATELY REGISTERED ENGINEER (THE"SPECIALTY ENGINEER").
   B. DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER, SHOWING LOAD MAGNITUDES AND LOCATIONS - SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE.
   C. ERECTION OR DESIGN DRAWINGS BEARING THE SPECIALTY ENGINEER'S SEAL AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT A SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:
   A. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
   B. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND UNIFORM BUILDING CODE REQUIREMENTS.
   C. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN.
   D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.

6. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED THE STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL. ONLY AT THE OWNER'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEM(S) BE MADE BY THE ENGINEER OF RECORD. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE ENGINEER OR RECORD AND THE BUILDING OFFICIAL HAVE APPROVED THE SUBMITTAL DOCUMENTS.

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4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
STRUCTURAL GENERAL NOTES

Project Number: 20250550

Sheet Number
S002

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FOOTING SCHEDULE

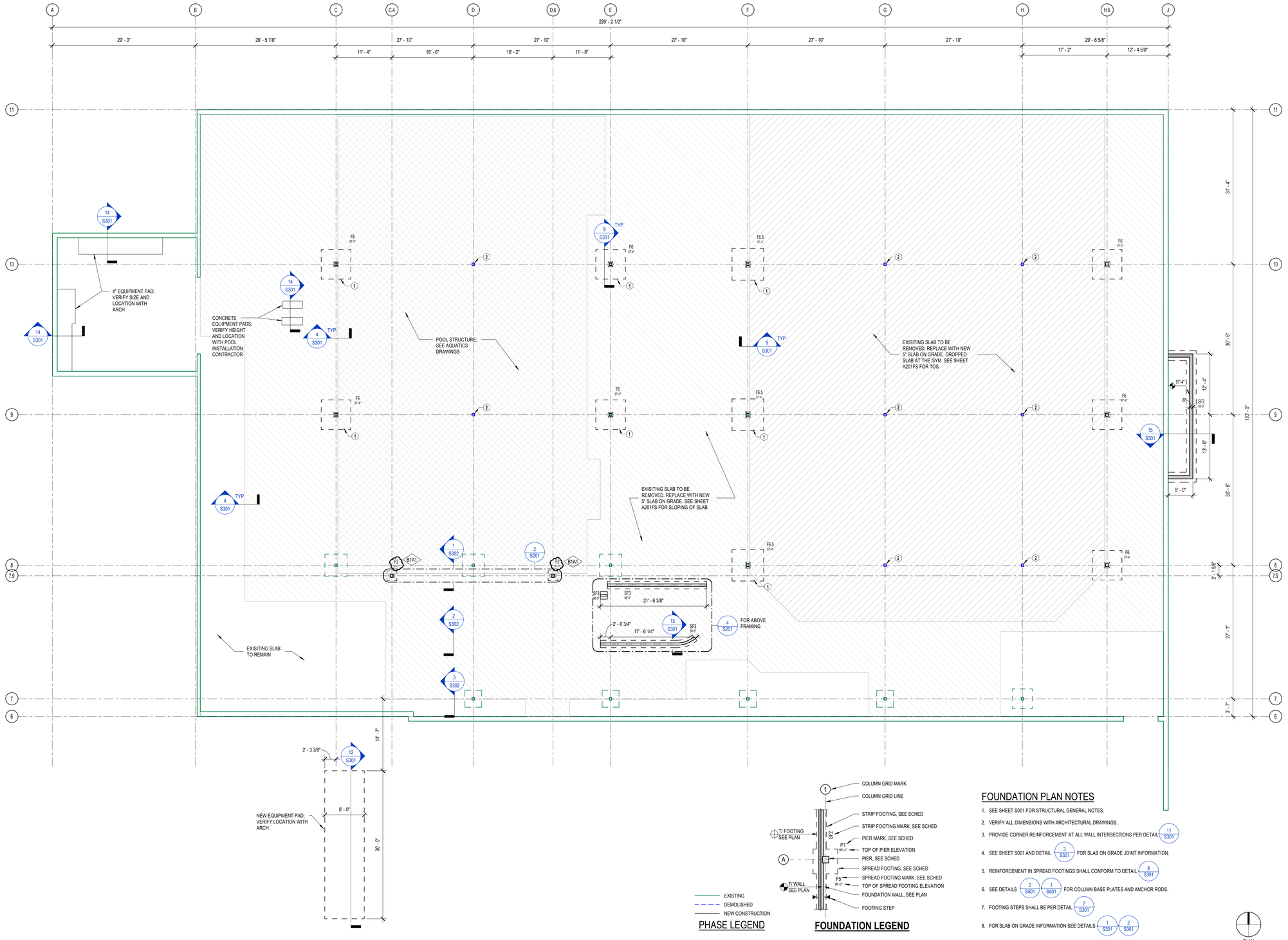
MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F2	2' - 0"	2' - 0"	1' - 0"	(3) #5 BARS EACH WAY	NONE
F6	6' - 0"	6' - 0"	1' - 0"	(6) #6 BARS EACH WAY	NONE
F6.5	6' - 5"	6' - 5"	1' - 0"	(6) #6 BARS EACH WAY	NONE

STRIP FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCEMENT
SF2	2' - 0"	1' - 0"	(2) #5 BARS
SF3	1' - 6"	10"	(2) #5 BARS

SHEET KEYNOTES

1 REMOVE EXISTING FOOTING AND REPLACE WITH NEW FOOTING
2 REMOVE EXISTING COLUMN



EXISTING
DEMOLISHED
NEW CONSTRUCTION

PHASE LEGEND

FOUNDATION LEGEND

FOUNDATION PLAN NOTES

1. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES.
2. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE CORNER REINFORCEMENT AT ALL WALL INTERSECTIONS PER DETAIL 11/S301
4. SEE SHEET S001 AND DETAIL 3/S301 FOR SLAB ON GRADE JOINT INFORMATION.
5. REINFORCEMENT IN SPREAD FOOTINGS SHALL CONFORM TO DETAIL 8/S301
6. SEE DETAILS 2/S501 1/S501 FOR COLUMN BASE PLATES AND ANCHOR RODS.
7. FOOTING STEPS SHALL BE PER DETAIL 7/S301
8. FOR SLAB ON GRADE INFORMATION SEE DETAILS 1/S301 2/S301

PLAN NORTH

1 S101 FOUNDATION PLAN
1/8" = 1'-0"

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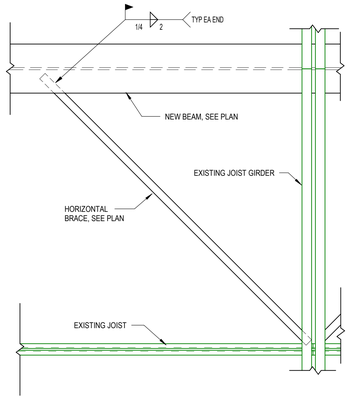
Sheet Title
FOUNDATION PLAN

Project Number: 20250550

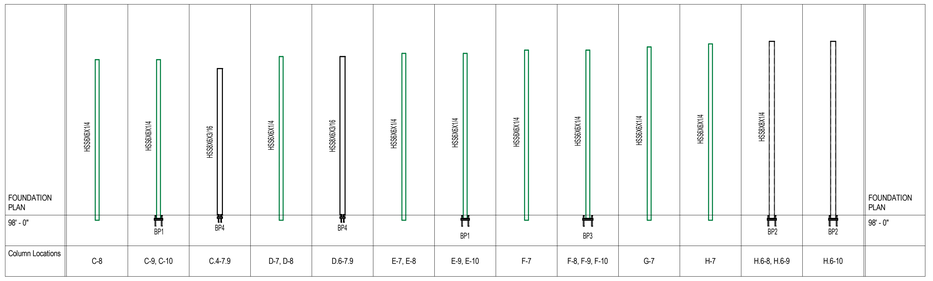
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S101

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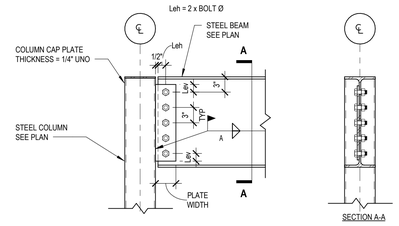
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13 S501 HORIZONTAL BRACING
3/4" = 1'-0"

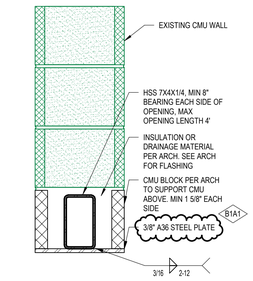


COLUMN SCHEDULE
NTS

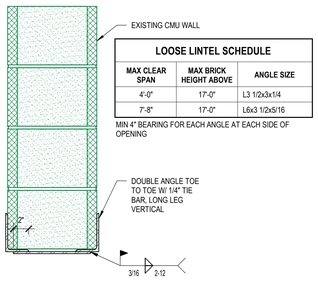


SINGLE PLATE CONNECTION SCHEDULE						
BEAM SIZE	BOLT QUANTITY	BOLT TYPE	PLATE THICKNESS	WELD THICKNESS	Lev	PLATE WIDTH
W8, W10	2	3/4" Ø A325-N	1/4"	3/16"	1 1/4"	3 1/2"
W12, W14	3					
W16	4		5/16"	1/4"	1 1/4"	4"
W18	5					
W21	6					
W24, W27	7					
W30	8					
W33	9					
W36	10					

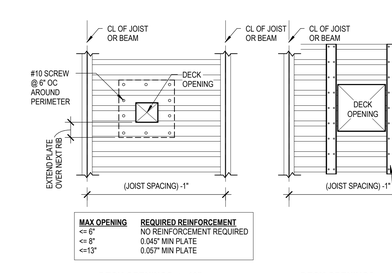
5 S501 STEEL BEAM CONNECTION TO HSS COLUMN
1" = 1'-0"



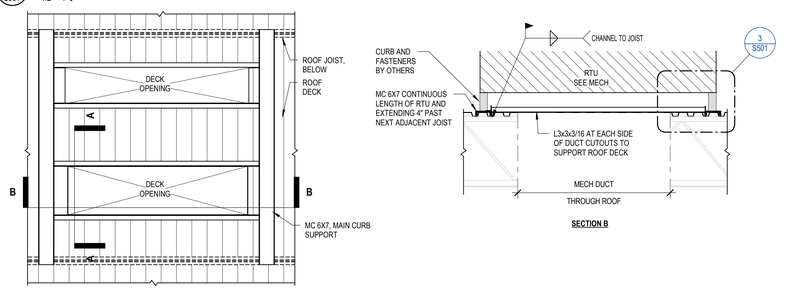
12 S501 HSS LINTELS
1 1/2" = 1'-0"



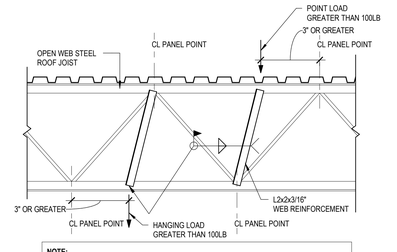
10 S501 DOUBLE ANGLE LINTELS
1 1/2" = 1'-0"



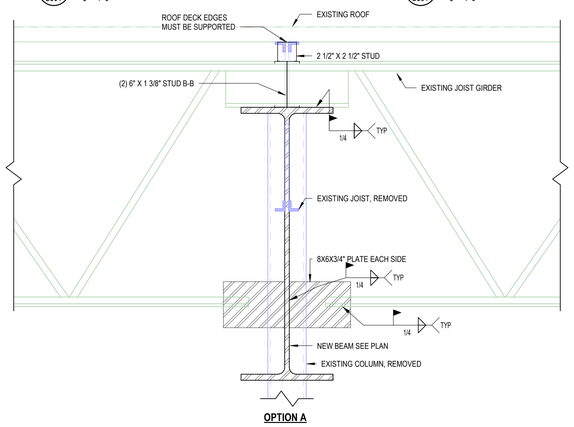
8 S501 TYPICAL REINFORCEMENT AT ROOF OPENINGS
1/2" = 1'-0"



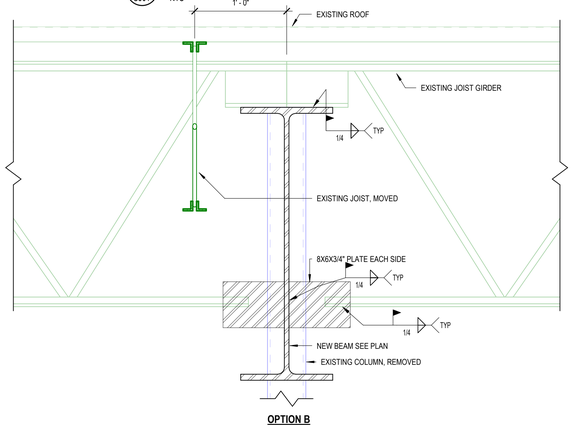
4 S501 TYPICAL JOIST REINFORCEMENT DETAIL
3/4" = 1'-0"



11 S501 BUILT UP COLUMNS AT POOL
3" = 1'-0"

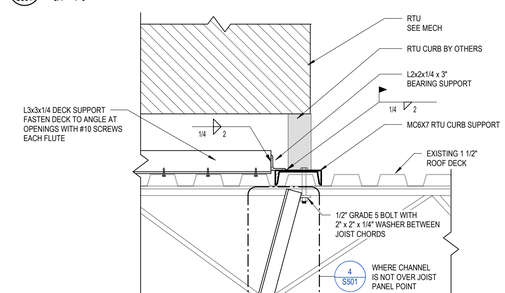


9 S501 BUILT UP COLUMNS AT GYM
3" = 1'-0"

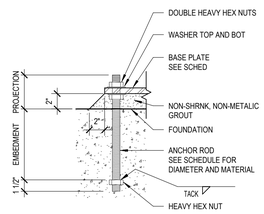


7 S501 TYPICAL REINFORCEMENT AT RTU
NTS

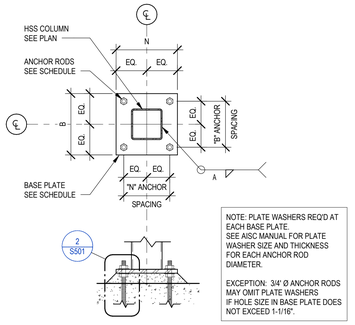
3 S501 RTU DECK SUPPORT DETAIL
1 1/2" = 1'-0"



6 S501 EXISTING GIRDER TO TRANSFER BEAM CONNECTION
1 1/2" = 1'-0"



2 S501 ANCHOR RODS
1 1/2" = 1'-0"



1 S501 BASE PLATES
1" = 1'-0"

05-101 BASE PLATE AND ANCHOR ROD SCHEDULE

MARK	T	B	N	WELD SIZE "A"	ANCHOR ROD QUANTITY	ANCHOR ROD DIAMETER	ANCHOR ROD TYPE	EMBEDMENT	PROJECTION	B ROD SPACING	N ROD SPACING	COMMENTS
BP1	1"	1' - 1"	1' - 0"	1/4"	4	1"	F1554 GR. 36	9"	7"	10"	9"	
BP2	1"	1' - 2"	1' - 2"	1/4"	4	1"	F1554 GR. 36	9"	7"	11"	11"	
BP3	1"	1' - 4"	1' - 0"	1/4"	4	1"	F1554 GR. 36	9"	7"	1' - 1"	9"	
BP4	1/2"	8"	1' - 3"	1/4"	4	1/2"	F1554 GR. 36	6"	6"	4"	10"	

5 B1A1

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ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
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Sheet Title
STEEL FRAMING DETAILS

Project Number: 20250550

Sheet Number
S501

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COMBINED WATER SERVICE RELOCATED TO THIS LOCATION BY PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

CITY COMPUTER GENERATED FLOW TEST
DATE: DECEMBER 16, 2025
STATIC PRESSURE: 54 psi
FIRE DEMAND: 1500 gpm
RESIDUAL PRESSURE: 49 psi
FLOW RATE (20psi): 4200
ELEVATION: 1071
MAIN SIZE: 10

REMOVE EXISTING FIRE DEPARTMENT CONNECTION (FDC). INSTALL NEW PIPE FOR CONNECTION TO EXISTING FDC SERVING EXISTING MSCR BUILDING.

RELOCATE SPRINKLER PIPING OVER ELECTRICAL/FIRE ALARM PANELS.

PROVIDE CORROSION RESISTANT HEADS FOR POOL AND POOL SERVICE ROOMS.

W-SR-P = WHITE SEMI-RECESSED PLASTIC ESCUTCHEONS
W-SR = WHITE SEMI-RECESSED HEADS
W-C = WHITE CONCEALED HEADS
W-U-CA = WHITE CONCEALED WITH CAGE HEADS
B-U = BRASS UPRIGHT HEADS

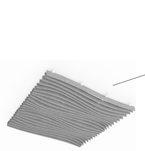
HAZARDS ARE ASSUMPTIONS. FIRE PROTECTION ENGINEER SHALL FOLLOW NFPA 13 HAZRAD DENSITIES AND AREAS OR INSURANCE CARRIER REQUIREMENTS (SUCH AS FM GLOABL) THAT HAVE MORE STRINGENT REQUIREMENTS



RAMP 103 - SKYLIGHT WITH SOFFIT

SKYLIGHT WITH SOFFIT.

SKYLIGHT WITHOUT SOFFIT





LOUNGE 109 - CEILING TREATMENT



GYMNASIUM 107 - CEILING TREATMENT

CONNENCT NEW FIRE PROTECTION SYSTEM INTO EXISTING FIRE DEPARTMENT CONNECTION.

N

FP201 SCALE: 1/8" = 1'-0"

FIRST FLOOR EXPANSION - FLOOR PLAN

0 4' 8' 16'
0 2"
1/8" = 1'-0"

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Sheet Title
FIRST FLOOR EXPANISON - FLOOR PLAN

Project Number: 20250550

Sheet Number
FP201

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5/15/2026 11:01:00 AM

PLUMBING GENERAL NOTES:

- BUILDING DRAINS & BUILDING SEWERS SHALL BE INSTALLED PER IPC 2015.
- SANITARY VENT PIPING INCLUDING CIRCUIT VENTS, WET VENTS & COMBINATION DRAIN/VENT SHALL BE INSTALLED PER IPC 2015.
- INSTALLATION OF TRAPS SHALL CONFORM TO IPC 2015.
- CLEANOUTS SHALL BE INSTALLED PER IPC 2015.
- WATER SERVICE & WATER DISTRIBUTION VALVING SHALL CONFORM TO IPC 2015.
- HOT WATER SYSTEM EQUIPMENT, PIPING & VALVING SHALL CONFORM TO IPC 2015.
- THE POTABLE WATER SUPPLY SHALL BE PROTECTED FROM BACK-SIPHONAGE PER IPC 2015.
- INSULATE ALL PIPING PER IECC 2018 IECC.
- ALL GAS PIPING BY MECHANICAL CONTRACTOR. PROVIDE ALTERNATE COST FOR PLUMBING CONTRACTOR TO PROVIDE AND INSTALL.
- AFTER THE SYSTEM HAS BEEN PRESSURE TESTED PROVIDE COST TO INSTALL EXPANSION FITTINGS AT ALL WASHER BOX STACKS TWO STORIES OR MORE.
- THIS FACILITY WILL BE COMMISSIONED BY A THIRD PARTY COMMISSIONING AGENT. REFER TO SPECIFICATION SECTIONS 01 91 13 AND 22 08 00 FOR SPECIFIC REQUIREMENTS.
- ALL SPACES ABOVE FINISHED CEILINGS ARE USED AS A RETURN AIR PLENUM. ALL MATERIALS INSTALLED ABOVE FINISHED CEILINGS SHALL BE PLENUM RATED.
- ALL VTR SHALL BE 3".

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
P01	BUILDING CLEANOUT TO BE MAXIMUM 5'-0" FROM EXTERIOR WALL.
P04	2" CLEAR WATER VENT UP TO 3" VTR
P09	FLOOR DRAIN TO BE MOVED PLAN NORTH TO BE OUTSIDE OF EQUIPMENT PAD IF HEAT PUMP WATER HEATERS ALTERNATE IS ACCEPTED.
P11	6" EXISTING COMBINED WATER SERVICE. PC TO VERIFY EXACT LOCATION.
P13	PROVIDE HUB DRAIN FOR BOILER CONDENSATE. COORDINATE EXACT LOCATION WITH POOL CONTRACTOR.
P15	PROVIDE BACKWASH HUB DRAIN. SEE DETAIL 9/PL404 ON POOL DRAWINGS FOR FURTHER INFORMATION.
P16	DIMENSIONS ARE THE SAME FOR BOTH TD-1C TRENCH DRAINS.

N

1 P100 **FIRST FLOOR EXPANSION - UNDERGROUND**

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

0 2"

1/8" = 1'-0"

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Sheet Title
FIRST FLOOR EXPANSION - UNDERGROUND

Project Number: 20250550

Sheet Number
P100

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CITY COMPUTER GENERATED FLOW TEST
DATE: DECEMBER 16, 2025
STATIC PRESSURE: 54 psi
FIRE DEMAND: 1500 gpm
RESIDUAL PRESSURE: 49 psi
FLOW RATE (20psi): 4200
ELEVATION: 1071
MAIN SIZE: 10
PAINT ALL EXPOSED STEEL IN POOL STORAGE TO PREVENT CORROSION.
POOL STORAGE 140
42x60 SUMP BASIN
CHLORINE 142
MURIATIC ACID 141
POOL MECHANICAL 125
MECHANICAL ROOM 124
POOL OFFICE 120
RESTROOM 123
OFFICE 121
OFFICE 119
OFFICE 117
OFFICE 115
OFFICE 118
STORAGE 116
BREAKROOM 114
POOL 108
POOL VIEWING 113
RAMP 103
FAMILY CHANGING ROOM 129
MEN'S LOCKER ROOM 127
WOMEN'S LOCKER ROOM 126
POOL WAITING 126
FAMILY + ASST USE CHANGING ROOM 130
RESTROOM 132
RESTROOM 131
GYMNASIUM STORAGE 141
GYMNASIUM STORAGE 142
SENSORY SPACE 145
GYMNASIUM 107
LOUNGE 109
LOUNGE 111
LOUNGE 110
CORRIDOR 102
CORRIDOR 104
CORRIDOR 101
PLAY 112A
COMBINATION DOMESTIC FIRE SERVICE ENTRANCE
BOP: 18' - 2"
BOP: 11' - 6"
BOP: 18' - 7 5/8"
BOP: 18' - 5 5/8"
BOP: 18' - 7 5/8"
BOP: 18' - 0"
BOP: 11' - 10 1/4"
BOP: 11' - 0 7/8"
BOP: 11' - 0 3/4"
BOP: 11' - 0 1/4"
BOP: 11' - 5"
BOP: 11' - 4 1/2"
ISOLATION VALVE (TYP)
BALANCING VALVE
UNION (TYP)
UP TO RH1
WH1
WH2
HPP-1
HPP-2
HPP-3
HPP-4
HPP-5
HPP-6
HPP-7
HPP-8
HPP-9
HPP-10
HPP-11
HPP-12
HPP-13
HPP-14
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HPP-32
HPP-33
HPP-34
HPP-35
HPP-36
HPP-37
HPP-38
HPP-39
HPP-40

PLUMBING FIXTURE SCHEDULE

Type Mark	Description	Count	DFU	TOTAL DFU	Trap	Vent	CWFU	TOTAL CWFU	CW SIZE	HWFU	TOTAL HWFU	HW SIZE	WSFU	TOTAL WSFU	Fixture Description	Faucet / Valve Description	Accessories	Comments
BV1	BACKWATER VALVE	1	0	0			0	0		0	0			0	MIFAB BV1200-R BACKWATER VALVE WITH FLAPPER AND NICKLE BRONZE ACCESS COVER			PROVIDE PIPE EXTENSION FOR DEPTHS LESS THAN 12". PROVIDE FULLY ACCESSIBLE ACCESS PIT PER DETAIL FOR DEPTHS GREATER THAN 12"
CWS1	COLD WATER STOP - BEVERAGE DISPENSER SUPPLY	1	0	0			0.5	0.5		0	0			0	NIBCO 7145-LF LEAD-FREE QUARTER TURN ANGLE STOP, COMPRESSION X COMPRESSION, 5/8" OD. X 3/8" OD. CHROME PLATED ESCUTHEON.		WATTS SD-3 BACKFLOW PREVENTER WITH STRAINER.	
DS1	DECK SHOWER	1	3	3		1 1/2"	2	2	1/2"	2	2	1/2"	2	2	SYMMONS SHOWEROFF SHOWER SYSTEM MODEL 3-325. POLISHED CHROME FINISH.	MULTI CHOICE UNIVERSAL ROUGH VALVE BODY R100000 SERIES.		
DS/EW	DRENCH SHOWER / EYEWASH	1	0	0			7	7		7	7			0	PROVIDED BY POOL CONTRACTOR. INSTALLED BY PC.	TEMPERING VALVE BY POOL CONTRACTOR. PC TO INSTALL.		
EWC1	ELECTRIC WATER COOLER/BOTTLE FILLER	2	0.25	0.5	1 1/2"	1 1/2"	0.25	0.5	1/2"	0	0		0.25	0.5	ELKAY MODEL LVRCDRNN8WSK VANDAL RESISTANT WATER COOLER.		PROFLO PFPTP100 1-1/2" PVC P-TRAP, CHROME LOOSE KEY FULL PORT QUARTER TURN ANGLE STOP, PROFLO PFE7 CHROME EXCUTCHEON PLATE AND PROFLO PF146/PFX146 REINFORCED STAINLESS STEEL CONNECTORS.	PROVIDE CANE APRON FOR HIGH UNIT WHEN TWO UNITS ARE SIDE BY SIDE.
B1A1 FCO	FLOOR CLEANOUT ADJUSTABLE ON GRADE	18	0	0	<varies		0	0		0	0		0	0	SIOUX CHIEF 834 SERIES ADJUSTABLE PVC FLOOR CLEANOUT, ROUND NICKEL-BRONZE RING/COVER			
FCO1	SQUARE FLOOR CLEANOUT	2	0	0				0			0			0	MIFAB C1100-S. ADJUSTABLE SQUARE FLOOR CLEANOUT. COVER SHALL BE 316 STAINLESS STEEL.			
FD1	2" ADJUSTABLE ON-GRADE FLOOR DRAIN	4	2	8	2"	1 1/2"		0			0		0	0	MIFAB F1100-S-30-1. PLASTIC BODY. NICKLE BRONZE SQUARE GRATE.			
FD2	2" ADJUSTABLE ON-GRADE FLOOR DRAIN	31	2	62	2"	1 1/2"	0	0			0		0	0	MIFAB F1100-C-ZS FLOOR DRAIN WITH SQUARE STRAINER AND CAST IRON FLANGE MEMBRANE FLOOR AREAS. COVER SHALL BE 316 STAINLESS STEEL.			
FD3	3" ADJUSTABLE ON-GRADE FLOOR DRAIN	13	3	39	3"	1 1/2"	0	0			0		0	0	MIFAB P330- ROUND PVC AREA DRAIN.		JR SMITH QUAD CLOSE INLINE TRAP SEAL, 3" PLASTIC HOUSING WITH FLEXIBLE ELASTOMER DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE LISTED, REC#1435 AF-GW.	
HB1	INTERIOR HOSE BIB	9	0	0			4	36	3/4"	0	0		4	36	WOODFORD MODEL 24 ANTI-SIPHON PROTECTED WALL FAUCET WITH ASSE 1011 VACUUM BREAKER.			INSTALL WITH LOOSE KEY HANDLE.
KS1	DOUBLE BOWL KITCHEN SINK	1	2	2	1 1/2"	1 1/2"	2	2	1/2"	2	2	1/2"	3	3	ELKAY CROSSTOWMN MODEL ECTRUAD311755 DOUBLE BOWL 18 GAUGE STAINLESS STEEL UNDERMOUNT SINK. 31-1/2" X 18-1/2" X 5-1/2".	CHICAGO MODEL 1100-396ABCP DECK MOUNTED MANUAL FAUCET WITH 8" CENTERS.	CHROME LOOSE KEY QUARTER TURN CHROME PLATED BALL VALVE FIXTURE STOPS, FLEXIBLE STAINLESS STEEL SUPPLIES, TUBULAR STEEL OFFSET TAIL PIECES AND TRAPS, STAINLESS STEEL BASKET STRAINERS. ADA TRAP, STOP AND SUPPLY PROTECTION.WATTS LEAD FREE LFUSG-B-M2 THERMOSTATIC MIXING VALVE.	
L1	WALL MOUNT LAVATORY	1	1	1			0.5	0.5		0.5	0.5	1/2"		0	KOHLER GREENWHICH SERIES WALL MOUNT LAVATORY, MODEL NUMBER K-2032. PROVIDE ZURN MODEL Z1231EZ CONCEALED ARM CARRIER SYSTEM.	CHICAGO FAUCETS 802-665ABCP DECK MOUNTED FAUCET WITH 4" CENTERS.	PROFLO PFGD101 OFFSET DRAIN, PROFLO PFPTB100 1-1/4" CHROME P-TRAP, CHROME LOOSE KEY, FULL PORT QUARTER TURN ANGLE STOPS, PROFLO PFE7 CHROME ESCUTCHEON PANTES AND PROFLO PF146/PFX146 REINFORCED STAINLESS STEEL FLEXIBLE CONNECTORS. PROFLO PF200 SERIES TRAP COVERS.	
L2	LAVATORY (ACCESSIBLE)	6	1	6	1 1/2"	1 1/2"	0.5	3	1/2"	0.5	3	1/2"	1	6	SOLID SURFACE INTEGRAL BOWL BY ARCHITECT.	CHICAGE FAUCETS 802-665ABCP DECK MOUNTED FAUCET WITH 4" CENTERS.	PROFLO PFGD101 OFFSET DRAIN, PROFLO PFPTP100 1-1/4" CHROME P-TRAP, CHROME LOOSE KEY, FULL PORT QUARTER TURN ANGLE STOP, PROFLO PFE7 CHROME EXCUTCHEON PLATE AND PROFLO PF146/PFX146 REINFORCED STAINLESS STEEL CONNECTORS. PROFLO PF200 SERIES TRAP COVERS.	SEE ARCHITECTURAL SHEET I210 FOR FURTHER INFORMATION.
MB1	FLOOR MOUNTED MOP BASIN	3	3	9	3"	1 1/2"	2	6	1/2"	2	6	1/2"	3	9	MUSTEE 63M ONE PIECE WHITE MOLDED CONSTRUCTION WITH INTEGRALLY MOLDED CENTER DRAIN.	CHICAGO FAUCETS SERVICE SINK FAUCET MODEL 305-RXK WITH ROUGH CHROME FINISH, 3/4" MALE HOSE THREADED OUTLET, PAIL HOOK, ADJUSTABLE SUPPLY ARMS WITH INTEGRAL SERVICE STOPS AND LEVER HANDLES. PROVIDE WATTS MODEL 8AC NON-REMOVABLE CHROME VACUUM BREAKER. PVC P-TRAP	MUSTEE HOSE & BRACKET MODEL 65.700, HOSE HOLDER AND BUMPER GUARDS, MOP HANGER AND WALL GUARDS	
PDD1	POOL DECK DRAIN	1	4	4				0			0			0	DALDORADO CAPSHURE DECK DRAIN SYSTEM. 4" UN-SLOPED.			SEE POOL DECK DRAIN PLAN FOR DRAIN SIZES.
RH1	EXTERIOR ROOF HYDRANT	3	0	0			4	12	3/4"	0	0		4	12	WOODFORD SR4MS FREEZLESS SANITARY ROOF HYDRANT WITH DUAL CHECK BACKFLOW PREVENTOR. NO DRAIN REQUIRED			
SH1	SHOWER	1	3	3		1 1/2"	2	2	1/2"	2	2	1/2"	2	2	FIELD BUILT BY GC.	POWERS HYDROGAURD MODEL 705-G-1	POWERS SHOWER ARM AND FLANGE, MODEL 141-399, POWERS SHOWERHEAD 141-376	
SH2	SHOWER - ACCESSIBLE	1	3	3		1 1/2"	2	2	1/2"	2	2	1/2"	2	2	FIELD BUILT BY GC.	POWERS HYDROGAURD MODEL 705-G-1, POWERS DIVERTERMODEL 141-600F	POWERS SHOWER ARM AND FLANGE, MODEL 141-399, POWERS SHOWERHEAD 141-376, POWERS HAND-HELD SHOWER, MODEL 141-150FL. PROVIDE IN-LINE VACUUM BREAKER.	
TD1C	TRENCH DRAIN	1	4	4				0			0			0	MIFAB T1401BR. 316 STAINLESS STEEL EDGE RAIL. T200-RSA-HPP-GRY POLYPROPYLENE GRATE.			EXACT SIZE TO BE DETERMINED
B1A1 TV1	RECESSED THERMOSTATIC MIXING VALVE CABINET	1	0	0				0			0			0	LEONARD ECO-MIX TM-195-20-BWE REC-LE THERMOSTATIC MIXING VALVE		PROVIDE RECESSED CABINET WITH BAKED WHITE ENAMEL FINISH.	
UR1	WALL MOUNTED URINAL	2	2	4	2"	1 1/2"	2	4	3/4"	0	0		2	4	KOHLER BARDON MODEL K-4991-ET HIGH-EFFICIENCY URINAL, WASHOUT, WALL HUNG, 0.5 GPF, TOP SPUD	SLOAN ROYAL SERIES MODEL 186 SMO-0.5-CP EXPOSED SENSOR URINAL FLUSHOMETER.		
WC1	WALL MOUNTED FLUSH VALVE WATER CLOSET	4	6	24			6.5	26	1 1/4"		0		6.5	26	CERSER NORTHPOINT G0025033 WALL HUNG BACK OUTLET ADA ELONGATED TOP SPUD WATER CLOSET. ZURN Z1201-N-3 EZ CARRY WATER CLOSET CARRIER SYSTEM.	SLOAN ROYAL MODEL 111 SMO-1.6-CP-YK SENSOR FLUSHOMETER. POLISHED CHROME FINISH.	BEMIS MODEL 1955SSCT COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT.	
WC2	FLOOR MOUNT FLUSH VALVE WATER CLOSET (ACCESSIBLE)	8	6	48	3"	1 1/2"	6.5	52	1 1/4"	0	0		6.5	52	MANSFIELD MODEL NUMBER 1319 ADRIATIC SERIES SMART HEIGHT, ELONGATED FRONT, FLUSH VALVE WATER CLOSET.	SLOAN ROYAL MODEL 111 SMO-1.6-CP-YK SENSOR FLUSHOMETER. POLISHED CHROME FINISH.	BEMIS MODEL 1955SSCT COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT.	
WH1	EXTERNAL WALL HYDRANT	2	0	0			3	6	3/4"	0	0		4	8	WOODFORD MODEL 65 FREEZE-LESS WALL HYDRANT WITH INTEGRAL ASSE 1052 TYPE VACUUM BREAKER.			
Grand total: 118				220.5				161.5			24.5			162.5				

WATER HEATER SCHEDULE

Type Mark	Area Served	Manufacturer	Model	Fuel	Input Rating (MBH)	Recovery Rate (GPH)	Temperature Rise	Tank Size (Gal)	Description
WH1	DOMESTIC HOT WATER	HTP	PHOENIX PHM199-119	NATURAL GAS	199		100 °F	100	97% THERMAL EFFICIENCY, POWER DIRECT VENT, SEALED COMBUSTION, 5 MCA, PIPE VENT AND COMBUSTION AIR UP THRU ROOF. PROVIDE T&P RELIEF VALVE & PIPE TO 4"AFF. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

SUMP PUMP SCHEDULE

Type Mark	Qty.	Area Served	Manufacturer	Model	Water Flow	Head (FT)	Voltage	Phase	Horsepower	Amps	RPM	Description
SP1	2	POOL MECHANICAL ROOM	LIBERTY	290 SERIES	50	20	208 V	1	3/4 HP	5.3	0	NOTE: 1

NOTE 1:

- PROVIDE 42" X 5' 0" FIBERGLASS SUMP BASIN WITH ANTI-FLOTATION FLANGE AND SEALED BASIN COVER. BASIN RIM TO BE FLUSH WITH FLOOR. COORDINATE BASIN INSTALLATION WITH POOL CONTRACTOR.
- INSTALL CHECK VALVES, BALL VALVES AND UNIONS FOR INDIVIDUAL PUMP REPLACEMENT.
- PC TO VERIFY DEPTH OF BASIN FOR CODE REQUIRED RUN TIMES.
- PROVIDE LIBERTY AES-SERIES DUPLEX CONTROLLER WITH AXILLARY CONTACTS FOR CONNECTION TO BAS FOR MONITORING/ALARM. ALARM ANNUNCIATOR SHALL BE BOTH VISUAL AND AUDIBLE.
- PROVIDE 25 FOOT POWER CORD.

CIRCULATION PUMP SCHEDULE

Type Mark	Count	Area Served	Manufacturer	Model	Type Comments	Water Flow	Head (FT)	Voltage	Number of Poles	Apparent Power	Rated Speed (RPM)	Description	Comments
TWP1	1	DECK SHOWERS	TACO	006e3LC ECM	ECM WET ROTOR CIRCULATOR	3 GPM	8	115 V	1	65 VA	1440	3 FIXED SPEEDS WITH INFINITELY VARIABLE SPEED SETTINGS BETWEEN MIN/MAX. COMPOSITE BODY CONSTRUCTION, PROVIDE CHECK VALVE IN DISCHARGE PIPE. PROVIDE CORD AND PLUG CONNECTION	
CP2	1	DOMESTIC HOT WATER	TACO	0026-SF2				115 V	1		3800	VARIABLE SPEED. STAINLESS STEEL CONSTRUCTION, INTEGRAL FLOW CHECK. PROVIDE CHECK VALVE AT DISHCHARGE. PROVIDE CORD & PLUG CONNECTOR. PROVIDE 365 DAY/24 HOUR DIGITAL TIMER AND AQUASTAT. TIMER TO HAVE CORD & PLUG.	

1. INLINE PUMP
2. PUMPS INSTALLED AND PROVIDED BY PC.
3. PUMPED CONTROLLED THROUGH BUILDING AUTOMATION SYSTEM FOR START/STOP, SCHEDULING AND ALARM. COORDINATE WITH CONTROLS CONTRACTOR AND OWNER.

B1A1

TEMPERING VALVE SCHEDULE

Type Mark	Location	Area Served	Manufacturer	Fixture Description	Comments
HT1	MECHANICAL ROOM 124	DOMESTIC HOT WATER	HEAT TIMER	INSTALL ELECTRONIC TEMPERING VALVE WITH HIGH TEMPERATURE SAFE GUARD, MOTORIZED STAINLESS STEEL CONTROL VALVE FOR MONITORING HOT WATER. SHALL BE EQUAL TO HEAT-TIMER SAFETY VALVE WITH BATTERY BACKUP. INSTALL VALVE WITH AUDIBLE ALARM. SET WATER HEATER TO PROVIDE A MINIMUM OF 120° F SUPPLY TEMPERATURE (ADJUSTABLE)	

WATER SOFTENER SCHEDULE

Type Mark	Location	Area Served	Manufacturer	Model	Cont Flow	Grains Capacity	Comments
WS1	MECHANICAL ROOM 165	DOMESTIC HOT WATER	ADDIE	29TMDM-300-30-NXT2-2SS	84@15PSI	280,000/100	PROVIDE VACCUM BREAKER. FLEXIBLE CONNECTORS ARE RECOMENDED BY TANK MANUFACTURER.

PLUMBING EXPANSION TANK SCHEDULE

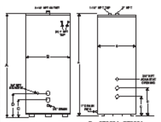
Type Mark	Location	Manufacturer	Model	Description	Type Comments
ET1	MECHANICAL ROOM	AMTROL	ST-12	BLADDER EXPANSION TANK	LOCATE NEAR INLET TO WATER HEATER. MAXIMUM WORKING PRESSURE 150 PSIG. MAXIMUM OPERATING TEMPERATURE 200F

RELY ON RUUD

Large Volume Jacketed Storage Tanks

DIMENSIONAL INFORMATION FOR VERTICAL ROUND JACKETED STORAGE TANKS (All dimensions shown in English and Metric)

MODEL NUMBER	UNITS	A	B	C	D	WATER CONNECTIONS TOP OUTLET	WATER CONNECTIONS FRONT SIDE	APPROX. SHIPPING WEIGHT
ST200A	inches	77-1/2	34	11-7/16	14-3/16	2-1/2	2-1/2	872 lbs.
	mm	1968	864	284	411	64	64	396 kgs.
ST245A	inches	95-1/2	34	18	26	2	3	1198 lbs.
	mm	2426	864	457	660	51	76	545 kgs.
ST305A	inches	84-1/2	40	19-3/4	27-3/4	2	3	1260 lbs.
	mm	2146	1016	502	662	51	76	599 kgs.
ST420A	inches	84-1/2	46	21	29	2	3	1426 lbs.
	mm	2146	1168	533	737	51	76	798 kgs.
ST510A	inches	94-1/2	46	21	29	2	3	1765 lbs.
	mm	2400	1168	533	737	51	76	801 kgs.
ST750A	inches	107-1/2	54	23-7/8	30-7/8	2	3	2550 lbs.
	mm	2731	1372	581	784	51	76	1058 kgs.
ST960A	inches	131-1/2	54	23-7/8	30-7/8	2	3	3910 lbs.
	mm	3340	1372	581	784	51	76	1547 kgs.



TANK INFORMATION (Shown in English and Metric)

MODEL NUMBER	TANK CAPACITY GALLONS	TANK CAPACITY LITERS	MAXIMUM WORKING PRESSURE RATING
ST200A	200	758	150 PSI 1034 kPa
ST245A	257	974	125 PSI 862 kPa
ST305A	318	1205	125 PSI 862 kPa
ST420A	432	1637	125 PSI 862 kPa
ST510A	504	1910	125 PSI 862 kPa
ST750A	752	2850	125 PSI 862 kPa
ST960A	940	3563	125 PSI 862 kPa

In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.

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ISSUE FORM NO. RR102C-SELT Rev. 5

Air to Water 60k BTUh Heat Pump Specifications

Ruud Model Number	HPHD-60HNU-201 (Horizontal)	HPHD-60VNU-201 (Vertical)
ELECTRICAL INPUT		
Voltage/Phase	208/240 Volt/ 1 Phase/ 60 Hz	
Full Load / Locked Rotor (Amps Per Phase)	29.5 FLA / 176 LRA	
Min. Circuit Amperage	40 Amps	
Refrigerant	R134a	
Heating Capacity, BTU/hr	Up to 64,752	
Power Input, kW	6.2	
COP	Up to 6.13	
Noise Level, dBa @ 10ft	54	
Rated Load Amps @ 64°F SBT / 113°F SCT	22.6	
TECHNICAL DATA		
	Compressor / Fan	Compressor / Fan
Type	Scroll / Axial	Scroll / Axial
Number Per Unit	1 / 2	1 / 2
FLA (Full Load Amps, each)	27.3 / 1.06	27.3 / 1.06
Voltage / Phase	208/240v / 1 P	208/240v / 1 P
Pole/RPM	2/3600 / 6/1000	2/3600 / 6/1000
Air Flow, CFM	N/A / 1695 (Per Fan)	N/A / 1695 (Per Fan)
Max. Static Pressure for Ducting	.08" W.C.	
HEAT EXCHANGER (Water Side)		
Type of Water Tube	Double Wall - 316L Stainless Steel	
Design	Vertical Brazed Plate	
Flow Rate Encl. By Pass, gpm	17.4	
Max. Outlet Water Temp. °F	150	
Design Pressure Drop, PSI	4.8	
Max. Operating Pressure, PSI	145	
GENERAL INFORMATION		
Water Connections	1-1/4" Copper	
Drain	3/4" Aluminium	
Defrost	Hot Gas Injection	
Cabinet Construction	18 Gauge Stucco Aluminium	
Approx. Shipping Weight, lbs	500	
Size L x W x H	49.2" x 27.2" x 36.7"	49.2" x 26.2" x 39.8"

Performance Table

WATER OUT° F	AMBIENT TEMPERATURE 40° F	50° F	60° F	70° F	80° F	90° F	100° F	110° F	UNITS
100°F	44,057	49,866	57,130	62,906	67,307	78,037	81,845	84,752	BTU/Hr
	3.09	3.42	3.85	4.26	4.66	5.14	5.64	6.13	COP
110°F	41,287	47,617	55,059	61,310	66,667	77,383	80,962	82,741	BTU/Hr
	2.98	3.32	3.67	4.01	4.33	4.74	5.15	5.66	COP
120°F	36,477	45,359	52,988	59,813	65,031	76,194	78,986	81,776	BTU/Hr
	2.66	3.22	3.50	3.77	3.76	4.23	4.70	5.17	COP
130°F	36,687	43,120	50,917	58,316	64,917	73,934	76,188	78,442	BTU/Hr
	2.69	3.13	3.39	3.52	3.57	3.82	4.08	4.33	COP
140°F	32,697	40,872	48,846	56,820	64,784	72,768	74,742	76,755	BTU/Hr
	2.90	3.03	3.15	3.28	3.40	3.52	3.65	3.77	COP
150°F	N/A	38,625	46,775	55,323	64,737	71,596	73,314	75,030	BTU/Hr
		2.93	2.98	3.03	3.28	3.30	3.32	3.34	COP

Installation Clearances

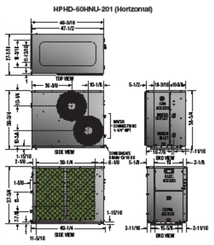
Sides	60K BTU
Evap Coil Side	20"
Back (Vert. Discharge)	Nil
Back (Horiz. Discharge)	47"
Display Side	34"
Water Conn. Side	20"
Top (Vert. Discharge)	47"
Top (Horiz. Discharge)	Clearance above unit required for service personnel to stand

Unit Clearances

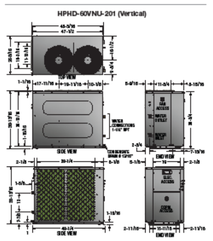
Direction	Description	Minimum Clearance Required Horizontal	Vertical
A	Evaporator Coil	20"	
B	Water Connections	20"	
C	Horizontal– Fan Discharge	47"	Nil
D	Compressor Access	34"	
E	Top – Fan Discharge	20"	47"

When units are placed side by side, allow at least 47" between evaporator coils. Rating Conditions: 80°F ambient, 60% RH, 110°F Water out, Testing in accordance with ASHRAE 116.1-2012. Ratings as per 10 CFR Appendix E to Subpart B of Part 431

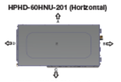
HPHD-60HNU-201 (Horizontal)



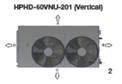
HPHD-60VNU-201 (Vertical)



HPHD-60HNU-201 (Horizontal)



HPHD-60VNU-201 (Vertical)



RUUD

COMMERCIAL WATER
SPLIT HEAT PUMP SIZING REPORT

Project Information

Project Name	Madison MSCR	**Date**	12/17/2025
APP#	APP12918	**Customer Name**	Aaron Adler
Application Engineer	Sinan Mousa	**City, State**	Madison, WI

Application Information

Application	School/Rec Pool Showers	**Cold Water Temp**	40
Product Type	Split Heat Pump - HPHD60	**Set Point Temp**	120
Peak Period (hr)	Continuous	**Temperature Rise**	80
Recovery Period (hr)	2	**Ambient Design Temp**	41

Fixture Type	Quantity	Flow Rate	Fixture Temp	
Showers	9	2.5 GPM	105°F	
Lavatory	11	5 GPH	105°F	
Mop sink	1	20 GPH	140°F	

Hourly Demand..... 425 GPH specified by customer

Product Information

Model Number	HPHD-60HNU-201
HP Quantity	7
HP Circulating Pumps	Qnty: 7 - Grundfos CM 3-2*
Power Input	208-240 V / 1 Ph / 60 Hz
Heat Pump Output	38575 BTU/h
Storage	Qnty 2: ST-430 Vertical (See Note**)
COP @ ASHRAE 118.1 Cond.	3.76
COP @ Ambient Design Temp	2.61
Recovery	@ 80 °F - 59 US GPH
Total Delivery	**1101 US Gallons**
Low-Ambient WH Model	Qnty 3: Tankless Model -XTP032208
Low-Ambient Pump GPM	18 GPM



NOTES

*HP pump sized for 17.4 gpm at 4.8 psi through heat exchanger plus pressure drop from a total of 130 ft of primary and return piping.

**Alternate storage tank sizes and quantities can be available based on sizing parameters. Contact applications for more info.

Heat pumps are multi-pass systems. Total storage volume is designed to meet demand.

Low-Ambient backup water heater is recommended for applications where ambient temperatures are less than 37°F.

For continous use applications, a six (6) hour demand time is used to calculate the total storage and number of heat pumps.

Disclaimer:
The sizing recommendation selected by Rheem Manufacturing Engineering Team is based on the data provided by the customer. This selection must be reviewed and approved by the contractor/engineer for the commercial project. Additionally, this sizing selection does not imply compliance with local building codes. Installation may vary, depending on installation location, and must be done in accordance with all local building codes. Consult with local building officials before installation.

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MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
SCHEDULES

Project Number: 20250550

Sheet Number
P701

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ALTERNATE DESCRIPTION

- ALTERNATE #PL01 - PROVIDE TILE IN POOL BASIN IN LIEU OF QUARTZ AGGREGATE.
- ALTERNATE #PL02 - ADD POOL HEATER HEAT PUMP SYSTEM. ADD EQUIPMENT INCLUDING CONDENSING UNITS, PUMPS, STORAGE TANKS, PIPING, PIPING SUPPORTS, THERMOMETERS, GAUGES, PIPE INSULATION/JACKETING, HEAT TRACE (BY EC) AND EQUIPMENT PAD (BY GC). EC TO PROVIDE BREAKERS, DISCONNECTS, CONDUIT AND WIRING SERVING H2A, H3A, H4A, AND ALL HEAT TRACE EQUIPMENT FOR THIS EQUIPMENT.
- ALTERNATE #P01 - ADD WATER HEATER HEAT PUMP SYSTEM. ADD EQUIPMENT INCLUDING CONDENSING UNITS, PUMPS, STORAGE TANKS, PIPING, PIPING SUPPORTS, THERMOMETERS, GAUGES, PIPE INSULATION/JACKETING, HEAT TRACE (BY EC), SCREEN WALL, AND EQUIPMENT PAD (BY GC). EC TO PROVIDE BREAKERS, DISCONNECTS, CONDUIT, AND WIRING SERVING WHP-1,2,3 AND HPP-1,2,3 AND ALL HEAT TRACE FOR THIS EQUIPMENT.
- ALTERNATE #M01 - REMOVE POOL WATER CONDENSER ENERGY RECOVERY FROM POOL DEHUMIDIFICATION UNIT (PDU-1). REMOVE ASSOCIATED PUMP (P-1). HYDRONIC PIPING, PIPE SPECIALTIES, HANGERS AND SUPPORTS, INSULATION, AND HEAT TRACE. EC TO REMOVE BREAKERS, CONDUIT, AND WIRING SERVING P-1 AND ALL HEAT TRACE EQUIPMENT.
- ALTERNATE #M02 - REMOVE DUAL FUEL AIR SOURCE HEAT PUMP ROOFTOP EQUIPMENT (RTU-1,RTU-2, RTU-3, AND DOAS-1) AND REPLACE WITH ELECTRIC COOLING/GAS HEAT ONLY EQUIVALENT.
- ALTERNATE #M03 - REMOVE FACTORY INSTALLED BACNET CONTROLS FROM RTU-1, RTU-2, RTU-3, DOAS-1, MAU-1 AND REPLACE WITH FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR.
- ALTERNATE #E01 - SHIFT LIGHTS IN EXISTING MEDIUM STUDIO TO ACCOMODATE REMOVED STORAGE ROOM TO ACCOMODATE NEW CORRIDOR 101.

B1A1

HVAC SYMBOL SCHEDULE

- PIPE RISE
- PIPE DROP
- PIPE BRANCH TAKEOFF TOP
- PIPE BRANCH TAKEOFF BOTTOM
- PIPE BRANCH TAKEOFF SIDE
- PIPE INCREASER/REDUCER
- PIPE CAP
- BALL VALVE
- PRESSURE REGULATOR
- X" Ø GAS (X MBH) — PIPE TAG
- DUCT
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RETURN DUCT UP
- RETURN DUCT DOWN
- EXAUST DUCT UP
- EXHAUST DUCT DOWN
- DUCT INCREASER/REDUCER
- BALANCE/VOLUME DAMPER
- FLEXIBLE DUCT
- DIFFUSER/REGISTER/GRILLE
- LINEAR SLOT DIFFUSER
- THERMOSTAT/TEMPERATURE SENSOR
- CONNECT NEW TO EXISTING
- XX-X X" Ø X CFM — DIFFUSER/REGISTER/GRILLE TAG
- FAN
- ROOF MOUNTED FAN
- PLENUM FAN
- HEAT PUMP COIL
- HOT GAS REHEAT COIL
- GAS HEATING COIL
- ELECTRIC HEATER
- PUMP
- VARIABLE FREQUENCY DRIVE
- MOTOR STARTER
- DIFFERENTIAL PRESSURE SENSOR
- DIFFERENTIAL PRESSURE TRANSMITTER
- FILTER
- BAROMETRIC DAMPER
- MOTORIZED DAMPER
- ELECTRONICALLY COMMUTATED MOTOR
- SPACE TEMPERATURE SENSOR
- SPACE HUMIDITY SENSOR
- OCCUPANCY SENSOR
- DUCT TEMPERATURE SENSOR
- DUCT AVERAGING TEMPERATURE SENSOR
- DUCT HUMIDITY SENSOR
- CARBON DIOXIDE SENSOR
- SMOKE DETECTOR
- REFRIGERANT MONITOR
- DX LOW LIMIT
- AIR FLOW SWITCH
- ACTUATOR
- MOTORIZED VALVE
- REVERSING VALVE
- CURRENT SENSOR
- POTENTIONMETER
- RELAY
- RELAY SOCKET

ABBREVIATIONS

ACT	ACTUATOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFS	AIRFLOW STATION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APP	APPLICATION
ASJ	ALL SERVICE JACKET
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT
BO	BINARY OUTPUT
BTUH	BRITISH THERMAL UNITS PER HOUR
CCT	COOLING COIL TEMPERATURE
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	COOLING
CLR	CENTERLINE RADIUS
CMP	COMPRESSOR
CO2	CARBON DIOXIDE
COD	CENTER OF DUCT
COM	COMMUNICATION
CONN	CONNECTION
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CURRENT SENSOR
CU	CONDENSER UNIT
D	DAMPER
DA	DISCHARGE AIR
DA FLW	SUPPLY AIRFLOW
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB
DEG	DEGREES
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DPS	DIFFERENTIAL PRESSURE SENSOR
DSNG	DESIGN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAF	EXHAUST AIR FAN
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECON	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EH	ELECTRIC HEAT
ENA	ENABLE
ESP	EXTERNAL STATIC PRESSURE
ETC	ET CETERA
EW	ENERGY WHEEL
EWH	ELECTRIC WALL HEATER
F	FAHRENHEIT
FIL	FILTER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLW	FLOW
FPM	FEET PER MINUTE
FSK	FOIL SCRIM KRAFT
FT	FEET
GC	GENERAL CONTRACTOR
GH	GAS HEAT
GPM	GALLONS PER MINUTE
GYP	GYPSUM
H	HUMIDITY
H/C	HEAT/COOL
HDW	HARDWARE
HGRH	HOT GAS REHEAT
HL	HIGH LIMIT
HP	HORSEPOWER
HRS	HOURS
HTG	HEATING
ICC	INTERNATIONAL CODE COUNCIL
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCHES
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LBS	POUNDS
LCK	LOCKOUT
LD	LINEAR DIFFUSER
LLT	LOW LIMIT TEMPERATURE
MAD	MIXED AIR DAMPER
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	ONE THOUSAND BRITISH THERMAL UNITS
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MERV	MINIMUM EFFICENCY RATING VALUE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MONITOR STATUS
NA	NOT APPLICABLE
NET	NETWORK
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NR	NO REQUIRMENT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAT	OUTSIDE AIR TEMPERATURE
OCC	OCCUPANCY
PCF	POUNDS PER CUBIC FOOT
PDU	POOL DEHUMIDIFICATION UNIT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RELAY
R PPM	REFRIGERANT PARTS PER MILLION
RA	RETURN AIR
REQ	REQUEST
REV VLV	REVERSING VALVE
RG	RETURN GRILLE
RLF	RELIEF
RM	REMOTE MONITOR
RTU	ROOFTOP UNIT
RV	REVERSING VALVE
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAJ	ALL SERVICE JACKET
SD	SMOKE DETECTOR
SFT	SOFTWARE
SG	SUPPLY GRILLE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	SETPOINT
SPH	SPACE HUMIDITY
SPS	DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES
SPT	SPACE TEMPERATURE
T	TEMPERATURE
TCC	TEMPERATURE CONTROL CONTRACTOR
TG	TRANSFER GRILLE
TMR	TIMER
TOV	TIMED OVERRIDE
TSP	TYPICAL
TYP	
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNOCC	UNOCCUPIED
V	VALVE
V/PH/HZ	VOLTAGE/PHASE/HERTZ
VAV	VARIABLE AIR VOLUME
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
W	WITH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GUAGE
WLS	WIRELESS

MECHANICAL NOTES:

DEMOLITION NOTES:

1. DEMOLITION OF MECHANICAL EQUIPMENT, CURBS, DEVICES, DUCTWORK, PIPING, ETC.; SHALL BE BY THE MECHANICAL CONTRACTOR. COORDINATE ANY REQUIRED PATCH WORK WITH THE GENERAL CONTRACTOR.
2. UNLESS NOTED OTHERWISE, DEMOLITION WORK IS SHOWN WITH BOLD DASHED LINES; EXISTING TO REMAIN IS SHOWN WITH SOLID LIGHT LINES; NEW WORK IS SHOWN WITH SOLID BOLD LINES.

GENERAL NOTES:

1. GENERAL NOTES APPLY TO ALL MECHANICAL DRAWINGS.
2. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO PROCEEDING WITH WORK.
3. COORDINATE ALL WORK WITH NEW AND EXISTING CONDITIONS.
4. ALL REFERENCES TO ELEVATIONS ARE FROM 98'-0" FINISHED FLOOR.
5. COORDINATE ALL WORK WITH OTHER TRADES.
6. ALL WORK AND MATERIALS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENT OF ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO INTERNATIONAL CODE COUNCIL (ICC) I-CODES, WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (SPS) COMMERCIAL BUILDING CODES, LOCAL CODES, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE.
7. INSTALLATION OF ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. MAINTAIN ALL MINIMUM CLEARANCES REQUIRED BY MANUFACTURER AND APPLICABLE CODES.
9. TEST, ADJUST, AND BALANCE ALL HVAC SYSTEM. BALANCE REPORTS SHALL BE SUBMITTED TO THE ENGINEER AND ONE COPY RETAINED AT THE JOBSITE.
10. MECHANICAL CONTRACTOR SHALL PROVIDE OWNER WITH A DIGITAL COPY OF OPERATION AND MAINTENANCE MANUALS.
11. MECHANICAL CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR PRODUCT AND WORKMANSHIP WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
12. ALL LOW VOLTAGE WIRING SHALL BE BY THE TEMPERATURE CONTROL CONTRACTOR OR SUCCESSFUL BIDDER.
13. ALL LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. COORDINATE LINE VOLTAGE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
14. ALL STARTERS AND DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
15. ALL ROOF CURBS AND RAILS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. FLASHING AND SEALING SHALL BE BY ROOFING CONTRACTOR. COORDINATE WITH GENERAL CONTRACTOR AND ROOFING CONTRACTOR.
16. MECHANICAL EQUIPMENT ROOF OPENINGS AND STRUCTURAL REINFORCEMENT SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE SIZE AND LOCATION.
17. CONCRETE EQUIPMENT PADS SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE SIZE AND LOCATION.
18. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED PITCH POCKETS AND PIPE BOOTS. COORDINATE WITH ROOFING CONTRACTOR.
19. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED HAVING FLAME SPREAD INDEX NOT MORE THAN 25 AND SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84 OR UL 723.
20. WHERE DISCRETE MECHANICAL PRODUCTS AND APPURTENANCES ARE LOCATED IN PLENUMS AND HAVE EXPOSED COMBUSTIBLE MATERIAL, THEY SHALL BE LISTED AND LABELED FOR SUCH USE IN ACCORDANCE WITH UL 2043.
21. DRYWALL ACCESS PANELS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR COORDINATE FRAMING REQUIREMENTS WITH GENERAL CONTRACTOR.
22. THIS FACILITY WILL BE COMMISSIONED BY A THIRD-PARTY COMMISIONING AGENT. REFER TO SPECIFICATION SECTION 01 91 13 GENERAL COMMISSIONING REQUIREMENTS AND 23 08 00 COMMISSIONING OF HVAC FOR SPECIFIC REQUIREMENTS.
23. CONTROLS DEVICES, EQUIPMENT, INTERLOCKS, GRAPHICS, SCHEDULING, ETC. SHALL BE BY BUILDING AUTOMATION SOLUTIONS. LOW VOLTAGE WIRING SHALL BE COMPETITIVELY BID.
24. INSTALLATION OF EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH SUFFICIENT CLEARANCE TO ALLOW INSPECTION, SERVICE, AND REPAIR OR REPLACEMENT WITHOUT REMOVING ELEMENTS OF PERMANENT CONSTRUCTION.
25. ALL SPACES ABOVE FINISHED CEILINGS ARE USED AS A RETURN AIR PLENUM. ALL MATERIALS INSTALLED ABOVE FINISHED CEILINGS SHALL BE PLENUM RATED.
26. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING DETAIL 4/SS01 AND PROVIDING ANY WEB REINFORCEMENT REQUIRED FOR SUPPORTING AND MECHANICAL EQUIPMENT AND SYSTEMS INSTALLED BY THE MECHANICAL CONTRACTOR.
27. THIS FACILITY WILL BE COMMISSIONED BY A THIRD-PARTY COMMISIONING AGENT. REFER TO SPECIFICATION SECTIONS 019113 - GENERAL COMMISSIONING REQUIREMENT AND 230800 - COMMISIONING OF HVAC FOR SPECIFIC REQUIREMENTS.
28. BUILDING AUTOMATION CONTROL SYSTEM SHALL BE AN EXTENSION OF THE EXISTING HONEYWELL SYSTEM. CONTROL PARTS AND LABOR SHALL BE BY BUILDING AUTOMATION SOLUTIONS. LOW VOLTAGE WIRING TO BE BY SUCCESSFUL BIDDER.

EQUIPMENT NOTES:

1. VENT TERMINALS FOR DIRECT-VENT APPLIANCE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. MECHANICAL DRAFT SYSTEMS OF EITHER FORCED OR INDUCED DRAFT DESIGN SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 378.
3. VERTICAL TERMINATION OF VENTS SHALL BE INSTALLED WITH VENT CAP TO PREVENT RAIN FROM ENTERING THE VENT SYSTEM AND SHALL NOT BE LESS THAN: 7 FEET ABOVE LEVEL OF WALK-WAY; 3 FEET ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10 FEET; 3 FEET BELOW ADJACENT ROOF STRUCTURE; 4 FEET BELOW, 4 FEET HORIZONTALLY FROM OR 1 FOOT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING; 3 FEET HORIZONTALLY FROM ANY PORTION OF ROOF STRUCTURE.
4. UNIT HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH LISTING AND MANUFACTURER'S INSTRUCTIONS. SUSPENDED-TYPE UNIT HEATERS SHALL BE SUPPORTED BY ELEMENTS THAT ARE DESIGNED AND CONSTRUCTED TO ACCOMMODATE THE WEIGHT AND DYNAMIC LOADS. HANGERS AND BRACKETS SHALL BE OF NONCOMBUSTIBLE MATERIAL.
5. EQUIPMENT SHALL BE SET OR MOUNTED ON LEVEL BASE CAPABLE OF SUPPORTING AND DISTRIBUTING THE WEIGHT CONTAINED THEREON. EQUIPMENT SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

DUCT & DUCT ACCESSORY NOTES:

1. REFER TO SPECIFICATIONS AND DRAWINGS FOR DUCT MATERIALS AND CONSTRUCTION.
2. ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS AND DO NOT INCLUDE DUCT LINER OR INSULATION. INCREASE DUCT SIZE AS NECESSARY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
3. TRANSFER DUCTS SHALL BE PROVIDED WITH 1" ACOUSTICAL LINER.
4. RETURN DUCTS SHALL BE PROVIDED WITH 1" ACOUSTICAL LINER FOR THE FIRST 15 FEET FROM EQUIPMENT.
5. NONMETAL AIR DUCTS SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCTS.
6. FLEXIBLE AIR DUCTS SHALL NOT EXCEED MORE THAN 5 FEET IN LENGTH.
7. FLEXIBLE AIR DUCTS SHALL NOT PASS THROUGH ANY WALL, FLOOR, OR CEILING.
8. FLEXIBLE AIR DUCTS SHALL ONLY BE INSTALLED WHERE ACCESSIBLE.
9. DUCT REGISTERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDED IN THE BRANCH DUCTS OR AT EACH INDIVIDUAL DUCT REGISTER, GRILLE, OR DIFFUSER. EACH VOLUME DAMPER OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT USED IN BALANCING SHALL BE PROVIDED WITH ACCESS.
10. PROVIDE INTEGRAL VOLUME DAMPERS FOR ALL DIFFUSERS, REGISTERS, AND GRILLES LOCATED WITHIN GYPSUM CEILINGS.
11. ALL VENTILATION AIR INTAKE AND EXHAUST OUTLETS SHALL HAVE A GRAVITY OR MOTORIZED SHUTOFF DAMPER.
12. ACCESS DOORS SHALL BE PROVIDED AT ALL MOTORIZED DAMPERS, CONTROL DAMPERS, LIFE SAFETY DAMPERS, COILS, TURNING VANES, CONTROL DEVICES, AND ANYWHERE REQUIRED TO ALLOW FOR INSPECTING, ADJUSTING, OR MAINTAINING EQUIPMENT AND ACCESSORIES.
13. ALL DUCT JOINTS SHALL BE SEALED PER SPECIFICATIONS. TAPE IS NOT PERMITTED.
14. ALL DUCT ELBOWS SHALL BE LONG RADIUS WITH MINIMUM 1.5 CLR. MITERED ELBOWS WITH TURNING VANES ARE ACCEPTABLE WHERE LONG RADIUS ELBOWS ARE NOT ABLE TO BE USED.
15. ALL RECTANGULAR BRANCH TAKEOFFS SHALL BE 45° ENTRY TYPE.
16. ALL ROUND BRANCH TAKEOFFS SHALL BE HIGH EFFICIENCY TAKEOFFS.
17. ALL VAV AIR TERMINAL UNITS SHALL HAVE A MINIMUM THREE DUCT DIAMETERS OF STRAIGHT DUCT UPSTREAM OF INLET.
18. TERMINATION OF ENVIRONMENTAL AIR EXHAUST OUTLETS SHALL BE LOCATED: 3 FEET FROM PROPERTY LINES; 3 FEET FROM OPERABLE OPENINGS INTO BUILDINGS; 10 FEET FROM MECHANICAL AIR INTAKES. SUCH EXHAUST SHALL NOT BE CONSIDERED HAZARDOUS OR NOXIOUS.
19. UNLESS NOTED OTHERWISE, AIR INTAKE OPENINGS SHALL BE LOCATED NOT LESS THAN: 10 FEET FROM LOT LINES OR BUILDINGS ON SAME LOT; 10 FEET HORIZONTALLY FROM HAZARDOUS OR NOXIOUS CONTAMINANT SOURCES; 3 FEET BELOW CONTAMINANT SOURCES WHERE SUCH SOURCES ARE LOCATED WITHIN 10 FEET OF OPENING.
20. TERMINATE ALL ROOF EXHAUST, RELIEF, AND AIR INTAKE OPENINGS A MINIMUM OF 3 FEET ABOVE THE ROOF.
21. ECONOMIZER CONTROLS SHALL BE PROVIDED WITH FAULT DETECTION AND DIAGNOSTICS IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. GENERAL FAULT SHALL BE ANNUNCIATED TO BAS SYSTEM.
22. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTORS AS REQUIRED BY THE IBC, IMC, AND WISCONSIN SPS COMMERCIAL BUILDING CODES. FIRE ALARM CONTRACTOR SHALL WIRE DUCT SMOKE DETECTORS TO THE FIRE ALARM SYSTEM WHERE ONE EXISTS.
23. DUCT SMOKE DETECTORS SHALL BE LISTED AND LABELED FOR INSTALLATION IN AIR DISTRIBUTION SYSTEMS AND SHALL COMPLY WITH UL268A.

PIPE NOTES:

1. REFER TO SPECIFICATIONS AND DRAWINGS FOR PIPE MATERIALS AND CONSTRUCTION.
2. PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING SPACING SPECIFIED ON DRAWINGS AND IN SPECIFICATIONS.
3. MECHANICAL CONTRACTOR SHALL PIPE CONDENSATE TO DRAIN PROVIDED BY PLUMBING CONTRACTOR. PITCH PIPE AT A MINIMUM OF 1/8" PER FOOT TOWARDS DRAIN.
4. CONDENSATE DRAIN LINES SHALL BE PROVIDED WITH Y- OR T-FITTING AT EACH 90-DEGREE CHANGE IN DIRECTION. INSTALL THREADED PLUG CONNECTION IN DORMANT SIDE OF FITTING TO SERVE AS CLEANOUT.
5. MECHANICAL CONTRACTOR SHALL PROVIDE NATURAL GAS PIPING. PIPING AND INSTALLATION SHALL COMPLY WITH NFPA 54, INTERNATIONAL FUEL GAS CODE, AND WISCONSIN SPS COMMERCIAL BUILDING CODES.
6. TERMINATE NATURAL GAS PIPE AT EACH PIECE OF EQUIPMENT WITH DIRT LEG IN THE VERTICAL DROP, SHUT-OFF VALVE, AND GAS PRESSURE REGULATOR FROM 0 PSI TO 14" WC OR AS REQUIRED BY EQUIPMENT PURCHASED.
7. INSTALL GAS PRESSURE REGULATORS FURNISHED BY PLUMBING CONTRACTOR FOR INSTALLATION AT GAS-FIRED WATER HEATERS.
8. CLEAN, PRIME, AND PAINT ALL EXTERIOR GAS PIPING YELLOW.
9. GAS PIPE SUPPORTS ON ROOF SHALL BE EQUAL TO DURA-BLOK DBE SERIES ELEVATED ROOFTOP SUPPORTS.
10. ALL GAS PRESSURE REGULATORS WITHOUT A VENT LIMITING DEVICE SHALL BE VENTED TO THE BUILDING EXTERIOR.
11. PIPE SHALL BE CUT SQUARE, REAMED, AND CHAMFERED, AND SHALL BE FREE OF BURRS AND OBSTRUCTIONS. PIPE ENDS SHALL HAVE FULL-BORE OPENINGS AND SHALL NOT BE UNDERCUT.
12. SOLVENT-CEMENTED JOINT SURFACES SHALL BE CLEAN AND FREE OF MOISTURE. APPROVED PRIMER SHALL BE APPLIED TO CPVC AND PVC PIPE-JOINT SURFACES. JOINTS SHALL BE MADE WHILE THE CEMENT IS WET. SOLVENT CEMENT CONFORMING TO FOLLOWING STANDARDS SHALL BE APPLIED TO ALL JOINT SURFACES: ASTM D 2235 FOR ABS JOINTS; ASTM F 493 FOR CPVC JOINTS; ASTM D 2564 FOR PVC JOINTS. CPVC JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2846.
13. THREADED JOINTS SHALL CONFORM TO ASME B1.20.1. SCHEDULE 80 OR HEAVIER PLASTIC PIPE SHALL BE THREADED WITH DIES SPECIFICALLY DESIGNED FOR PLASTIC PIPE. THREAD LUBRICANT, PIPE-JOINT COMPOUND OR TAPE SHALL BE APPLIED ON MALE THREADS ONLY AND SHALL BE APPROVED FOR APPLICATION ON PIPING MATERIAL.
14. PVC PLASTIC PIPE JOINTS SHALL BE SOLVENT-CEMENTED OR THREADED JOINTS.
15. SHUTOFF VALVES SHALL BE INSTALLED ON INLET AND OUTLET OF ALL EQUIPMENT.
16. REFRIGERANT PIPE SHALL BE ACR COPPER WITH BRAZED JOINTS.
17. SUBMIT FOR RECORD REFRIGERANT PIPE DIAGRAM SHOWING REFRIGERANT SPECIALTIES, PIPE SIZE, AND FIELD MEASURED PIPE LENGTH. REFRIGERANT PIPING SYSTEM SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL BE REVIEWED AND APPROVED BY THE MANUFACTURERS OR AUTHORIZED MANUFACTURER'S REPRESENTATIVE.

INSULATION NOTES:

1. REFER TO SPECIFICATIONS AND DRAWINGS FOR INSULATION MATERIALS AND THICKNESS.
2. ALL DUCT AND PIPING SHALL BE INSULATED IN COMPLIANCE WITH INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), WISCONSIN SPS COMMERCIAL BUILDING CODES, AND ALL OTHER APPLICABLE CODES.
3. INSULATED EXTERIOR DUCTS SHALL BE PROTECTED WITH AN APPROVED WEATHERPROOF BARRIER.
4. PIPE INSULATION INSTALLED IN BUILDINGS SHALL CONFORM TO REQUIREMENTS OF INTERNATIONAL ENERGY CONSERVATION CODE, SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, USING SPECIMEN PREPARATION AND MOUNTING PROCEDURES OF ASTM E 2231, AND SHALL HAVE MAXIMUM FLAME SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX NOT EXCEEDING 450.
5. HYDRONIC PIPING SHALL BE INSULATED TO THICKNESS REQUIRED BY INTERNATIONAL ENERGY CONSERVATION CODE.
6. INSULATION USED IN RETURN AIR PLENUMS MUST BE RATED FOR PLENUM USE.
7. INSULATED FLEXIBLE AIR DUCTS SHALL HAVE A MINIMUM THERMAL PERFORMANCE OF R-4.2.

CODES & DESIGN CRITERIA	
MECHANICAL CODE:	2021 IMC & SPS 364
ENERGY CODE:	2021 IECC & SPS 363
ELEVATION:	870 FT ABOVE SEA LEVEL
WINTER DESIGN DB:	-15 DEG F
SUMMER DESIGN DB:	87 DEG F
SUMMER DESIGN WB:	75 DEG F
DB DESIGN FOR COOLING EQUIPMENT:	95 DEG F

DUCT CONSTRUCTION SCHEDULE

SYSTEM	MATERIAL	PRESSURE CLASS	SEALANT TYPE	SEAL CLASS	NOTES
SUPPLY MEDIUM PRESSURE	GALVANIZED	+4" W.G.	HARDCAST 404	A	MULTI-ZONE VAV UPSTREAM OF TERMINAL UNIT
SUPPLY LOW PRESSURE	GALVANIZED	+2" W.G.	HARDCAST 404	A	-
RETURN	GALVANIZED	-2" W.G.	HARDCAST 404	A	-
OUTSIDE AIR	GALVANIZED	-2" W.G.	HARDCAST 404	A	-
TRANSFER	GALVANIZED	1/2" W.G.	HARDCAST 404	A	-
GENERAL EXHAUST	GALVANIZED	-2" W.G.	HARDCAST 404	A	-
BOILER FLUE (DOUBLE WALL)	AL-294C	+9" W.G.	FACTORY FABRICATED	-	PITCH 1/4" PER FOOT TOWARDS BOILER
POOL AIR DUCT (SUPPLY/RETURN)	PVC COATED	+/-4" W.G.	PCD DUCT SEALER	A	-

PIPE INSULATION SCHEDULE

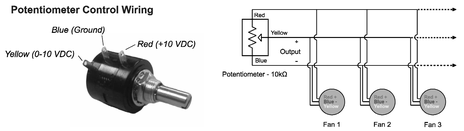
SYSTEM/LOCATION	TYPE	JACKET	PIPE SIZE < 1-1/4"	PIPE SIZE 1-1/2"	PIPE SIZE 2" - 3"
			INSULATION THICKNESS		
POOL HEAT RECOVERY WATER INDOORS	RIGID FIBERGLASS	ASJ	1-1/2"	1-1/2"	2"
POOL HEAT RECOVERY WATER OUTDOORS	RIGID FIBERGLASS	SAJ	3"	3"	3"
POOL WATER INDOORS (BY POOL CONTRACTOR)	RIGID FIBERGLASS	ASJ	1-1/2"	1-1/2"	2"
POOL WATER OUTDOORS (BY POOL CONTRACTOR)	RIGID FIBERGLASS	SAJ	3"	3"	3"
REFRIGERANT HOT-GAS	ELASTOMERIC	NONE	2"	2"	2"
REFRIGERANT LIQUID	ELASTOMERIC	NONE	1"	1"	1"
ASJ = ALL SERVICE JACKET					
SAJ = SELF ADHERING JACKET					

MAXIMUM SPACING BETWEEN PIPE SUPPORTS AND MINIMUM ROD SIZE

PIPE SIZE	COPPPER NATURAL GAS	COPPPER MIN. ROD	PLASTIC REFRIGERANT	PLASTIC MIN. ROD	PLASTIC PVC/CPVC	PLASTIC MIN. ROD
1/4" - 1/2"	6'	3/8"	5'	3/8"	4'	3/8"
3/4"	8'	3/8"	5'	3/8"	4'	3/8"
1"	8'	3/8"	6'	3/8"	4'	3/8"
1-1/4"	10'	3/8"	7'	3/8"	4'	3/8"
1-1/2"	10'	3/8"	8'	3/8"	4'	3/8"
2"	10'	3/8"	8'	3/8"	4'	3/8"
MAX VERT.	10'	-	10'	-	10'	-
SUPPORT AT EVERY FLOOR MINIMUM OR OR SPACING LISTED						

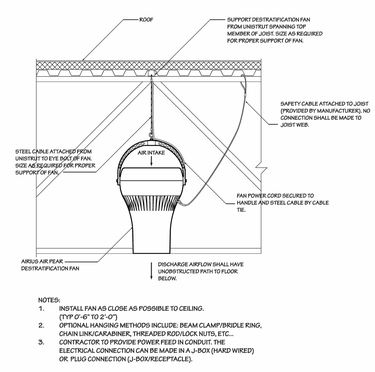
DUCT INSULATION SCHEDULE

SYSTEM	LOCATION	INDOOR/OUTDOOR	CONCEALED/EXPOSED	CONDITIONED/UNCONDITIONED	TYPE	DENSITY (PCF)	JACKET	THICKNESS (IN)	MIN R-VALUE	NOTES
EXHAUST/RELIEF	UNVENTED ATTIC	INDOOR	CONCEALED	UNCONDITIONED	GLASS-FIBER BLANKET	0.75	FSK	1.5	4.2	INSULATE FROM BUILDING ENVELOPE PENETRATION BACK TO BACKDRAFT OR CONTROL DAMPER
EXHAUST/RELIEF	INDIRECTLY CONDITIONED SPACE	INDOOR	CONCEALED	CONDITIONED	GLASS-FIBER BLANKET	0.75	FSK	1.5	4.2	INSULATE FROM BUILDING ENVELOPE PENETRATION BACK TO BACKDRAFT OR CONTROL DAMPER
EXHAUST/RELIEF	CONDITIONED SPACE	INDOOR	EXPOSED	CONDITIONED	GLASS-FIBER BLANKET	0.75	FSK	1.5	4.2	INSULATE FROM BUILDING ENVELOPE PENETRATION BACK TO BACKDRAFT OR CONTROL DAMPER
RETURN/MIXED	UNVENTED ATTIC	INDOOR	CONCEALED	UNCONDITIONED	GLASS-FIBER BLANKET	1	ASJ	2	6	-
RETURN/MIXED	INDIRECTLY CONDITIONED	INDOOR	CONCEALED	CONDITIONED	NR	NR	NR	NR	NR	NOT REQUIRED UNLESS OTHERWISE NOTED
RETURN/MIXED	EXTERIOR OF BUILDING	OUTDOOR	EXPOSED	UNCONDITIONED	GLASS-FIBER BOARD	3	ASJ	3	12	TAPER INSULATION TO ALLOW DRAINAGE, SELF ADHERING OUTDOOR JACKET
RETURN/MIXED	ALL	ALL	ALL	ALL	RIGID DUCT LINER	NR	NR	1	NR	LINE 1ST 15 FT FROM AIR HANDLING



3 M202 **DESTRATIFICATION SPEED CONTROL DETAIL**

SCALE: 1/8" = 1'-0"



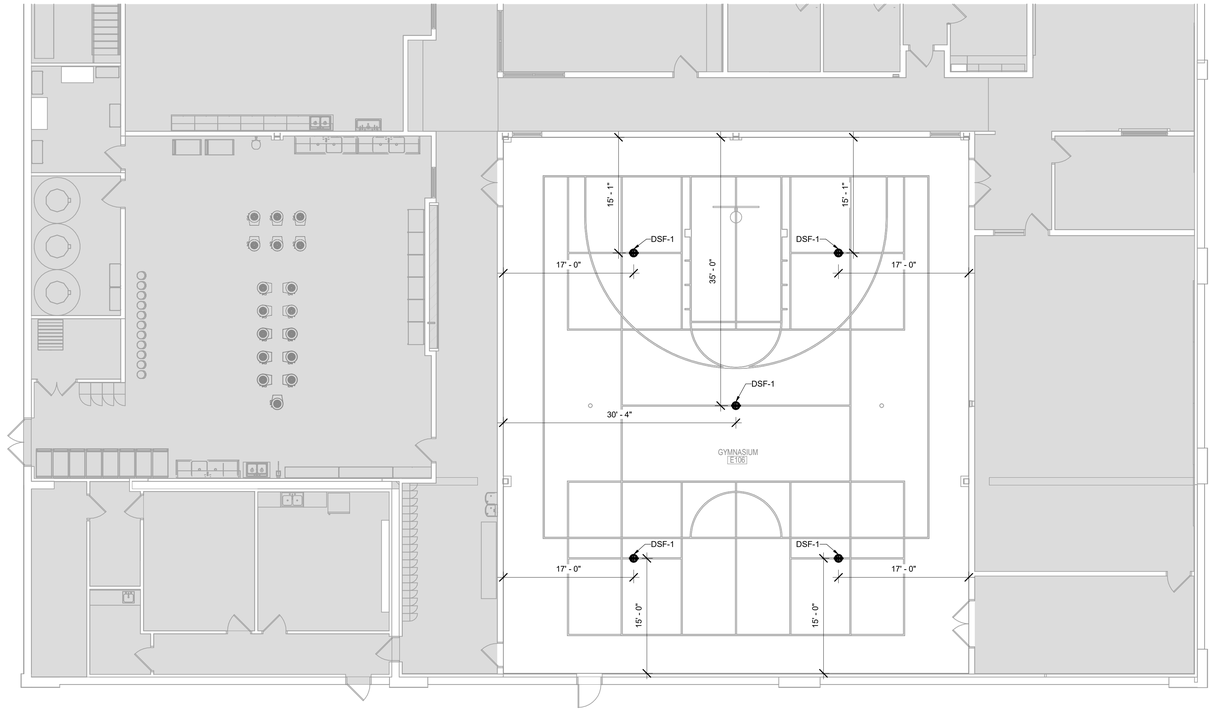
NOTES:
1. INSTALL FAN AS CLOSE AS POSSIBLE TO CEILING. (TYP 0'-6" TO 2'-0")
2. OPTIONAL HANGING METHODS INCLUDE: BEAM CLAMP/BRIDLE RING, CHAIN LINK/CARABINER, THREADED RODS/LOCK NUTS, ETC...
3. CONTRACTOR TO PROVIDE POWER FEED IN CONDUIT. THE ELECTRICAL CONNECTION CAN BE MADE IN A J-BOX (HARD WIRED) OR, PLUG CONNECTION (J-BOX/RECEPTACLE).

2 M202 **DESTRATIFICATION FAN INSTALLATION DETAIL**

SCALE: 1/8" = 1'-0"

DESTRATIFICATION FAN SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	MOUNTING	VELOCITY (FPM)	THROW	HP	AMPS	WATTS	RPM	V/PH/HZ	NOTES
DSF-1	E106 GYMNASIUM	AIRIUS	A-25-EC-SH-100-130-X	FREE HANGING	313	20	1	46	31	1640	120/1/60	1-5
1. PROVIDED BY MC.												
2. PROVIDE WITH CORDED PLUG. COORDINATE LOCATION OF RECEPTACLES WITH EC.												
3. PROVIDE 6 FT STEEL SAFETY CABLE.												
4. PROVIDE WALL MONTED LOW VOLTAGE POTENTIOMETER SPEED CONTROLLER TO CONTROLL DAISY CHANGED BETWEEN FANS TO CONTROL AS A GROUP.												
5. PROVIDE FACTORY INSTALLED STEEL INTAKE GRILLE.												



N

1 M202 **FIRST FLOOR PLAN - GYMNASIUM E106**

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

0 2"

1/8" = 1'-0"

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MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
FIRST FLOOR PLAN - GYMNASIUM E106

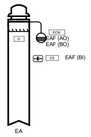
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Project Number: 20250550

Sheet Number
M202

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EF-1, EF-2, EF-3, EF-4

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.

OCCUPIED:

DURING OCCUPIED PERIODS, THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

UNOCCUPIED:

DURING UNOCCUPIED PERIODS THE EXHAUST FAN SHALL BE DISABLED.

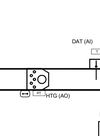
FAN STATUS:

THE FAN STATUS SHALL BE MONITORED BY A CURRENT SENSING SWITCH. IF THE FAN IS SIGNALED TO START, AND STATUS IS NOT PROVEN WITHIN 30 SECONDS (ADJ.), AN ALARM SHALL ANNUNCIATE AT THE BAS.

Point Name	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
EXHAUST FAN SPEED COMMAND EAF				X											
EXHAUST FAN STATUS EAF	X		X												
EX FAN START/STOP COMMAND EAF	X				X										
BAS COMMUNICATION STATE BAS COM						X									

5 M603 CONTROL DIAGRAM - EXHAUST FAN (EF-1, EF-2, EF-3, EF-4)

SCALE:NTS



EF-5, EF-6, EF-7, EF-9

OCCUPIED:

THE EXHAUST FAN SHALL HARD WIRED TO RUN CONTINUOUSLY.

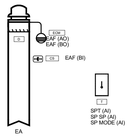
FAN STATUS:

THE FAN STATUS SHALL BE MONITORED BY A CURRENT SENSING SWITCH. IF STATUS IS NOT PROVEN FOR A PERIOD OF 30 SECONDS (ADJ.), AN ALARM SHALL ANNUNCIATE AT THE BAS.

Point Name	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
EXHAUST FAN STATUS EAF	X		X									X			

4 M603 CONTROL DIAGRAM - EXHAUST FAN (EF-5, EF-6, EF-7, EF-9)

SCALE: 1/8" = 1'-0"



EF-8

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND TEMPERATURE, SETPOINTS AN OTHER APPLICABLE INFORMATION TO THE CONTROLLER. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING IT DEFAULT SETPOINTS.

OPERATION:

THE EXHAUST FAN SHALL BE CONTROLLED TO MAINTAIN THE ACTIVE TEMPERATURE SETPOINT (ADJ). IF TH SPACE TEMPERATURE SENSOR FAILS, THE FAN SHALL REMAIN ON AND AN ALARM SHAL ANNUNCIATE AT THE BAS.

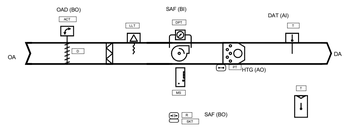
FAN STATUS:

THE FAN STATUS SHALL BE MONITORED BY A CURRENT SENSING SWITCH. IF THE FAN IS SIGNALED TO START, AND STATUS IS NOT PROVEN WITHIN 30 SECONDS (ADJ.), AN ALARM SHALL ANNUNCIATE AT THE BAS.

Point Name	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
EXHAUST FAN SPEED COMMAND EAF				X											
EXHAUST FAN STATUS EAF	X		X												
EXHAUST FAN START STOP COMMAND EAF	X				X										
SPACE TEMPERATURE LOCAL SPT	X	X								X	X			X	
SPACE TEMPERATURE SETPOINT LOCAL SP SP		X													
SPACE MODE LOCAL SP MODE		X													
BAS COMMUNICATION STATE BAS COM						X									

3 M603 CONTROL DIAGRAM - EXHAUST FAN (EF-8)

SCALE: 1/8" = 1'-0"



MAU-1, EF-5, EF-6, EF-7

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SHEDULE THE CONTROLLER TO BE ON CONTINUOUSLY AT ALL TIMES. THE BAS SHALL ALSO SEND TEMPERATURES, SETPOINTS AND OTHER APPLICABLE INFORMATION TO THE CONTROLLER. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE IN THE ON MODE USING ITS DEFAULT SETPOINTS.

B1A1

OPERATION:

THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTDOOR AIR DAMPER SHALL OPEN FULLY BEFORE THE FAN STARTS. IN THE HEATING MODE THE GAS HEAT SHALL STAGE UP AND DOWN TO CONTROL THE ACTIVE SPACE TEMPERATURE SETPOINT. IF THE SPACE TEMPERATURE SENSOR FAILS AN ALARM SHALL BE ANNUNCIATE AT THE BAS.

WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO VENTILATION. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. IF THE SPACE TEMPERATURE SENSOR FAILS, THE MODE SHALL DEFAULT TO HEATING AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

FAN STATUS:

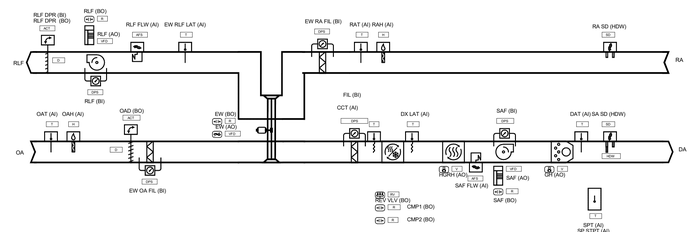
THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. IF THE SUPPLY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL REMAIN COMMANDED ON, THE OUTSIDE AIR DAMPER SHALL CLOSE, ALL HEATING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. ONCE THE FAN STATUS IS PROVEN ON, THE ALARM ON THE SUPPLY FAN SHALL CLEAR.

UPON FAILURE OF EF-5, EF-6, OR EF-7, MAU-1 SHALL BE COMMANDED OFF AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

Point Name	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
DISCHARGE AIR TEMPERATURE DAT	X	X								X	X			X	
HEAT ENABLE HT ENA	X				X										
HEATING OUTPUT COMMAND HTG	X			X											
OUTDOOR AIR DAMPER COMMAND OAD	X				X										
OUTDOOR AIR DAMPER POSITION STATUS OAD POS	X		X												
SPACE TEMPERATURE LOCAL SPT	X						X			X	X		X		
SPACE TEMPERATURE SETPOINT LOCAL SPT SP	X						X								
SUPPLY FAN START STOP COMMAND SAF	X				X										
SUPPLY FAN STATUS SAF	X		X												
BAS COMMUNICATION STATE BAS COM						X									X
MAINTENANCE REQUIRED MNT REQ						X						X			
SUPPLY FAN FAILURE SF FAIL	X					X						X			

2 M603 CONTROL DIAGRAM - MAKE-UP AIR UNIT (MAU-1)

SCALE:NTS



DOAS-1

UNOCCUPIED:

DURING THE UNOCCUPIED PERIODS, THE SUPPLY FAN SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL CLOSE, THE MECHANICAL COOLING SHALL BE DISABLED, TO CONSERVE ENERGY.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) THE SUPPLY FAN AND THE MECHANICAL COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE MECHANICAL COOLING SHALL BE DISABLED.

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED:

THE UNIT CONTROLLER SHALL CONTROL THE RELIEF FAN SPEED TO MAINTAIN A CONSTANT VOLUME (ADJ.). THE DX HEATING AND COOLING SHALL CONTROL TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT. THE DX HEATING AND COOLING AND THE GAS HEAT SHALL CONTROL TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT.

UNOCCUPIED:

SPACE CONDITIONS SHALL BE COMMUNICATED VIA BAS OR A HARDWIRE SPACE/TEMPERATURE HUMIDITY SENSOR. SPACE CONDITIONS SHALL BE COMMUNICATED VIA BAS OR A HARDWIRE SPACE/TEMPERATURE HUMIDITY SENSOR. THE OUTDOOR AIR DAMPER SHALL BE COMMANDED TO CLOSE AND THE RETURN AIR DAMPER SHALL OPEN. IF THE UNIT IS UNDER ECONOMIZER CONDITIONS, THE OUTDOOR AIR DAMPER POSITION COMMAND SHALL OPEN TO THE OUTDOOR AIR DAMPER MAXIMUM POSITION SETPOINT. UNOCCUPIED HEATING MODE SHALL BE ENABLED WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING ENABLE SETPOINT. DURING UNOCCUPIED HEATING MODE THE UNIT SHALL RUN THE HEAT TO MAINTAIN 90°F FOR THE DISCHARGE AIR TEMPERATURE. UNOCCUPIED HEATING MODE SHALL BE DISABLED WHEN THE SPACE TEMPERATURE RISES 2 DEG. F ABOVE THE UNOCCUPIED HEATING SETPOINT. WHEN THERE IS NO CALL FOR UNOCCUPIED HEATING MODE OR UNOCCUPIED DEHUMID MODE, UNOCCUPIED COOLING MODE SHALL BE ENABLED WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING ENABLE SETPOINT. DURING UNOCCUPIED COOLING MODE THE UNIT SHALL RUN THE COOLING TO MAINTAIN 50 DEG. F FOR THE DISCHARGE AIR TEMPERATURE. UNOCCUPIED COOLING MODE SHALL BE DISABLED WHEN THE SPACE TEMPERATURE RISES 2 DEG. F ABOVE THE UNOCCUPIED COOLING ENABLE SETPOINT.

MORNING WARM-UP MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND FAN(S). WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OCCUPIED BYPASS:

THE BAS SHALL MONITOR THE STATUS OF THE ON AND CANCEL BUTTONS OF THE SPACE TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

HEAT/COOL MODE:

WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE SHALL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL REMAIN IN ITS LAST STATE. IF THE SPACE TEMPERATURE SENSOR FAILS THE MODE SHALL REMAIN IN ITS LAST STATE AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE LOCAL AND COMMUNICATED SETPOINTS FAIL THE CONTROLLER SHALL DISABLE THE SUPPLY FAN AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

COOLING:

COOLING MODE SHALL BE ENABLED WHEN THE SPACE TEMPERATURE SETPOINT, PLUS THE OCCUPIED OFFSET. WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE OUTDOOR AIR HEATING ENABLE, BUT BELOW THE OUTDOOR AIR COOLING ENABLE SETPOINT, COOLING MODE SHALL BE ENABLED WHEN THE SPACE TEMPERATURE IS ABOVE THE SPACE TEMPERATURE SETPOINT PLUS THE SPACE TEMPERATURE OFFSET. DEHUMIDIFICATION MODE SHALL TAKE PRIORITY OVER COOLING MODE. ON UNITS WITHOUT HEAD PRESSURE CONTROL, THE COMPRESSORS SHALL BE LOCKED OUT IF THE OUTDOOR AIR TEMPERATURE FALLS BELOW THE COMPRESSOR LOW AMBIENT LOCKOUT SETPOINT AND THERE IS A DEMAND FOR COOLING. WHEN THIS OCCURS, THE UNIT SHALL DISPLAY COMPRESSOR LOW AMBIENT LOCKOUT ACTIVE AS AN INFORMATIONAL DIAGNOSTIC.

HEAT PUMP HEATING:

HEAT PUMP HEATING SHALL BE ENABLED USING THE SAME CRITERIA AS PRIMARY HEATING MODE, EXCEPT THAT HEAT PUMP IS ATTEMPTED FIRST BEFORE USING THE PRIMARY HEATER. THE SAME SETPOINTS ARE USED TO ADJUST COMPRESSOR HEATING CAPACITY. DURING HEAT PUMP OPERATION THE HOT GAS HEATING SHALL BE AT 100%. WHEN THE UNIT SWITCHES FROM HEAT PUMP TO PRIMARY HEATING, AUXILIARY HEATING MODE SHALL BE ALLOWED. AUXILIARY HEATING MODE SHALL BE ENABLED FOR A MINIMUM OF FIFTEEN MINUTES. IF THE COMPRESSOR HEATING CAPACITY IS AT 100%, AND DISCHARGE AIR TEMPERATURE FALLS 3 DEG. F BELOW THE DISCHARGE AIR TEMPERATURE SETPOINT FOR TEN MINUTES. THE UNIT SHALL TOGGLE THE AUXILIARY HEATING MODE TO BE ALLOWED, OUTDOOR AIR TEMPERATURE SHALL RECORDED AS HEAT PUMP FAIL SWITCH POINT. HEAT PUMP OPERATION SHALL BE RE-ATTEMPTED WHEN THE TEMPERATURE RISES BY 5 DEG. F. THE UNIT SHALL SWITCH THE AUXILIARY HEATING MODE TO BE ALLOWED WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW THE HEAT PUMP DISABLE TEMPERATURE SETPOINT 25 DEG. F (ADJ.) (40 DEG. F). DEFROSTING OF THE OUTDOOR COIL SHALL OCCUR WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 52 DEG. F AND THE OUTDOOR COIL REFRIGERANT TEMPERATURE IS BELOW 35 DEG. F. THE UNIT CONTROLLER SHALL MONITOR THE CONDENSER CONDITIONS, AND DEFROST MODE SHALL BE ENABLED ONCE THERE IS FROST ACCUMULATION. DURING DEFROST MODE THE REVERSING VALVE(S) SHALL BE SWITCHED INTO THE COOLING POSITION AND THE CONDENSER FANS SHALL BE SHUT OFF. THE PRIMARY HEAT SHALL BE ENABLED ON FOR UNITS WITH GAS.

PRIMARY HEATING:

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE OUTDOOR AIR HEATING ENABLE, BUT BELOW THE OUTDOOR AIR COOLING ENABLE SETPOINT, HEATING MODE SHALL BE ENABLED WHEN THE SPACE TEMPERATURE IS BELOW THE SPACE TEMPERATURE SETPOINT PLUS THE SPACE TEMPERATURE OFFSET. THE UNIT CONTROLLER SHALL MONITOR THE STATUS OF THE HEATER USING HEAT ON OFF STATUS LOCAL. IN THE EVENT OF IGNITION FAILURE. THE UNIT SHALL MAKE THREE IGNITION ATTEMPTS BEFORE DISPLAYING DIAGNOSTIC: HEAT FAILURE. THE UNIT SHALL SHUT DOWN WHEN A HEAT FAILURE OCCURS AND SHALL A RESET FOUR HOURS LATER TO RE-ATTEMPT IGNITION.

DEHUMIDIFICATION:

DEHUMIDIFICATION MODE SHALL BE ENABLED WHENEVER THE RETURN AIR DEWPOINT RISES ABOVE THE RETURN AIR DEWPOINT SETPOINT OR WHEN THE OUTDOOR AIR DEWPOINT RISES ABOVE THE OUTDOOR AIR DEWPOINT SETPOINT. DURING THE DEHUMIDIFICATION MODE, THE COOLING CAPACITY SHALL BE ADJUSTED TO MAINTAIN THE DEHUMIDIFICATION TEMPERATURE SETPOINT. THE DEHUMIDIFICATION TEMPERATURE SETPOINT SHALL BE RESET BY COMPARING RETURN DEWPOINT TO RETURN DEWPOINT CALCULATED ENABLE SETPOINT MINUS 2 DEG. F THE HOT GAS HEATING VALVE SHALL BE ADJUSTED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

ENERGY RECOVERY WHEEL OPERATION:

THE ENERGY RECOVERY WHEEL (ERV) START STOP COMMAND SHALL BE ENABLED WHENEVER THERE IS A CALL FOR RELIEF FAN. DURING VENTILATION MODE OR ECONOMIZER MODE THE ERV SHALL BE ENABLED.

VENTILATION:

VENTILATION MODE SHALL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE AND THE SPACE TEMPERATURE IS WITHIN TWO DEGREES OF THE SPACE TEMPERATURE SETPOINT. DURING VENTILATION MODE, HEATING AND COOLING SHALL BE LOCKED OUT AND THE UNIT SHALL SUPPLY UN-CONDITIONED AIR. VENTILATION MODE SHALL BE LOCKED OUT WHENEVER THE UNIT IS IN DEHUMIDIFICATION MODE.

SUPPLY FAN OPERATION:

WHEN THE UNIT BECOMES OCCUPIED, THE OUTDOOR AIR DAMPER SHALL OPEN. WHEN THE OUTDOOR AIR DAMPER IS COMPLETELY OPEN THE DAMPER END SWITCH SHALL CLOSE INDICATING THE DAMPER IS FULLY OPEN AND THE SUPPLY FAN SEQUENCE CAN BEGIN. WHEN THE FAN START SEQUENCE HAS BEGUN, THE UNIT CONTROLLER SHALL COMMAND THE VARIABLE SPEED DRIVE FOR THE SUPPLY FAN TO 50%. A SUPPLY FAN STATUS SWITCH SHALL PROVE FAN STATUS. IF AFTER 2 MINUTES (ADJ.) THE FAN DOES NOT HAVE A PROVEN SIGNAL, THE SUPPLY FAN FAILURE ALARM SHALL BE DISPLAYED AND THE UNIT SHALL SHUTDOWN REQUIRING A MANUAL RESET. SUPPLY AND RELIEF FANS ARE INTERLOCKED VIA SOFTWARE; A FAILURE OF EITHER SHALL DISABLE BOTH.

RELIEF AIR AND BUILDING PRESSURE CONTROL:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE RELIEF AIR FAN. IF THE SWITCH IS DETECTED TO BE OPEN FOR 40 CONSECUTIVE SECONDS AFTER A REQUEST FOR RELIEF FAN OPERATION A FAN FAILURE ALARM SHALL ANNUNCIATE AT THE BAS AND THE RELIEF FAN SHALL STOP. A MANUAL RESET SHALL BE REQUIRED.

RELIEF FAN OPERATION:

AFTER COMPLETING THE SUPPLY FAN STARTING SEQUENCE, THE EXHAUST DAMPER OPEN CLOSE COMMAND SHALL BE ENABLED. ONCE THE EXHAUST DAMPER END SWITCH HAS PROVEN, THE EXHAUST FAN START STOP COMMAND SHALL BE ENABLED. THE UNIT CONTROLLER SHALL ENABLE THE VARIABLE SPEED DRIVE FOR THE RELIEF FAN. THE SPEED OF THE RELIEF FAN SHALL VARY TO MAINTAIN A CONSTANT VOLUME OF RELIEF AIR (VOLUME SHALL BE SET BY THE FACTORY).

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE BAS.

SMOKE DETECTOR SHUTDOWN:

THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESSENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

REFRIGERANT MITIGATION MODE:

THE UNIT CONTROLLER SHALL MONITOR THE LEAK DETECTION SYSTEM EVERY 5 SECONDS, WHEN A LEAK IS DETECTED, MITIGATION SHALL BE ACTIVATED.

IN OCCUPIED MODE, THE SUPPLY FAN SHALL REMAIN OPERATIONAL, AND THE COMPRESSOR(S), ELECTRIC HEATING, FUEL-FIRED HEATING, ELECTROSTATIC DEVICES, AND ANY OTHER IGNITION DEVICE STARTERS SHALL BE DISABLED, AND ACTIVATE MECHANICAL VENTILATION (IF IT'S REQUIRED BY SECTION 7.6.4 OF THE ASRAE STANDARD). FOR THE DURATION OF THE MITIGATION PROCESS PLUS AN ADDITIONAL 5 MINUTES.

IN UNOCCUPIED MODE. THE SUPPLY FAN SHALL REMAIN OPERATIONAL, AND THE COMPRESSOR(S), ELECTRIC HEATING, FUEL-FIRED HEATING, ELECTROSTATIC DEVICES, AND ANY OTHER IGNITION DEVICE STARTERS SHALL BE DISABLED, AND ACTIVATE MECHANICAL VENTILATION (IF IT'S REQUIRED BY SECTION 7.6.4 OF THE ASRAE STANDARD). FOR THE DURATION OF THE MITIGATION PROCESS PLUS AN ADDITIONAL 5 MINUTES.

Point Name	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
COMPRESSOR 1 COMMAND CMP1	X				X										
COMPRESSOR 2 COMMAND CMP2	X				X										
DISCHARGE AIR TEMPERATURE DAT	X	X												X	
DX COIL FROST STAT FROSTAT	X		X											X	
DX COIL LEAVING AIR TEMPERATURE LOCAL DX LAT	X	X								X	X			X	
ENERGY WHEEL COMMAND EW	X				X										
ENERGY WHEEL LEAVING OUTDOOR AIR HUMIDITY EW OA LAH	X	X												X	
ENERGY WHEEL LEAVING RELIEF AIR TEMPERATURE EW RLF LAT	X	X												X	
ENERGY WHEEL RELIEF AIR BYPASS DAMPER COMMAND EW RLF BYPD	X			X											
ENERGY WHEEL RETRUN AIR FILTER STATUS LOCAL EW RA FIL	X		X									X			
ENERGY WHEEL OUTDOOR AIR FILTER STATUS LOCAL EW OA FIL	X		X									X			
ENERGY WHEEL SPEED EW	X			X											
GAS HEATING ENABLE GH	X				X										
GAS HEAT OUTPUT COMMAND GH	X			X											
HOT GAS REHEAT VALVE COMMAND HGRH	X			X											
MIXED AIR TEMPERATURE LOCAL MAT	X	X										X		X	
OUTDOOR AIR DAMPER COMMAND OAD	X				X										
OUTDOOR AIR DAMPER END SWITCH OAD	X		X												
OUTSIDE AIR HUMIDITY LOCAL OAH	X	X												X	
OUTSIDE AIR TEMPERATURE LOCAL OAT	X	X												X	
PRIMARY FILTER STATUS LOCAL FIL	X		X									X			
DUCT REFRIGERANT MONITOR R PPM		X													
RELIEF AIR DAMPER END SWITCH RLF DPR	X		X												
RELIEF AIR DAMPER OPEN/CLOSE RLF DPR	X				X										
RELIEF AIR FAN SPEED RLF	X			X											
RELIEF AIR FAN START/STOP RLF	X				X										
RELIEF AIR FAN STATUS LOCAL RLF	X		X												
RELIEF FAN AIR FLOW RLF FLW	X	X												X	
RETURN AIR HUMIDITY LOCAL RAH	X	X												X	
RETURN AIR SMOKE DETECTION LOCAL RA SD															
RETURN AIR TEMPERATURE LOCAL RAT	X	X												X	
RETURN AIR WHEEL BYPASS DAMPER COMMAND RA EW BYPD	X			X											
REVERSING VALVE REV VLV	X				X										
SPACE TEMPERATURE LOCAL (WIRED) SPT	X	X												X	
SPACE SETPOINT LOCAL (WIRED) SP STPT	X	X													
SUPPLY AIR SMOKE DETECTION LOCAL SA SD															
SUPPLY FAN AIR FLOW SAF FLW	X	X												X	
SUPPLY FAN SPEED SAF				X											
SUPPLY FAN START/STOP SAF	X				X										
SUPPLY FAN STATUS LOCAL SAF	X		X												
COMPRESSOR ENABLE CMP ENA	X														
COMPRESSOR LOCKOUT STATUS CMP LCK															
COOL OUTPUT CLG															
HEATPUMP DISABLE TEMPERATURE SETPOINT HP DIS TEMP SP	X														
OCCUPANCY OCC	X														
OCCUPIED COOLING SETPOINT OCC CLG SP	X														
RETURN DEHUMIDIFICATION SETPOINT RTN DEH SP															
UNOCCUPIED COOLING SETPOINT UNOCC CLG SP	X														
UNOCCUPIED HEATING SETPOINT UNOCC HTG SP	X														
SUPPLY FAN AIR FLOW SETPOINT SAF FLW SP															
HEATPUMP DISABLE TEMPERATURE SETPOINT HP DIS TEMP STPT	X														
RELIEF FAN AIR FLOW SETPOINT RAF AIR FLW STPT															
COOLING COIL LEAVING TEMPERATURE CCT	X	X													

1 M603 CONTROL DIAGRAM - DEDICATED OUTSIDE AIR SYSTEM W/ ENERGY RECOVERY (DOAS-1)

SCALE:NTS

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MSCR WEST RECREATION CENTER EXPANSION

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MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

POOL DEHUMIDIFICATION UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	VENTILATION (CFM)	EXHAUST AIRFLOW (CFM)	SA ESP ("WC)	SA TSP ("WC)	SA FAN (HP)	EA ESP ("WC)	EA TSP ("WC)	EA FAN (HP)	FILTER TYPE	FILTER EFFICIENCY	DEHUMIDIFICATION											POOL WATER HEAT RECOVERY								AUXILIARY HEAT				ELECTRICAL			NOTES
																										CIRCUIT 1				CIRCUIT 2											
															REFRIGERANT	AMBIENT AIR TEMP (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	MOISTURE REMOVAL CAPACITY (LB/HR)	TOTAL HEAT OF REJECTION (MBH)	HGRH LAT DB (°F)	CAPACITY (MBH)	WATER INLET/OUTLET SIZE (IN)	WATER FLOW (GPM)	PRESSURE DROP (FT WC)	CAPACITY (MBH)	WATER INLET/OUTLET SIZE (IN)	WATER FLOW (GPM)	PRESSURE DROP (FT WC)	TYPE	INPUT (MBH)	OUTPUT (MBH)	TURNDOWN (MBH)	V/PH/HZ	MCA	MOCP	
PDU-1	DESERTAIRE	SA24	5600	11000	2320	2320	2	4.29	15	0	1.98	3	PANEL	MERV 8	R-454B	87	86	71.5	70.6	63.9	182.84	312	122.4	394	103.8	152	1.25	20	12.7	240	1.5	30	12.7	NG	500	400	10:1	460/3/60	69	90	1-12

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE 18" CURB TO MOUNT UNIT. SET ON THICKENED EDGE SLAB BY OTHER. COORDINATE EXACT SIZE AND LOCATION GC.
3. PROVIDE NON-FUSED DISCONNECT.
4. PROVIDE W/ FACTORY MOUNTED BACNET MS/TP CONTROLLER. INTEGRATE W/ BAS.
5. PROVIDE SUPPLY AIR TEMPERATURE SENSOR FOR INSTALLATION IN SUPPLY DUCT BY TCC.
6. PROVIDE POOL WATER TEMPERATURE SENSORS FOR INSTALLATION IN CONDENSER WATER PIPE BY TCC.
7. CONTROL WIRING FROM UNIT CONTROLLER TO GAS HEATER SHALL BE BY TCC.
8. CONTROL WIRING FROM UNIT CONTROLLER TO ROOF MOUNTED CONDENSER SHALL BE BY TCC.
9. PROVIDE GAS PRESSURE REGULATOR FROM 5 PSIG TO 7"-14" WC.
10. MC SHALL EACH MOTOR USED WITH A VFD WITH A SHAFT GROUNDING RING EQUAL TO AEGIS SGR.
11. BASE BID IS TO INCLUDE UNIT WITH HOTGAS REHEAT CONDENSER COIL, REMOTE CONDENSER, EXHAUST AIR ENERGY RECOVERY, AND POOL WATER CONDENSER ENERGY RECOVERY.
12. ALTERNATE #M01: REMOVE POOL WATER CONDENSER ENERGY RECOVERY AND ASSOCIATED HYDRONIC SYSTEM INCLUDING BUT NOT LIMITED TO PUMP, PIPING, PIPE SPECIALTIES, HANGERS AND SUPPORTS, AND INSULATION.

DEDICATED OUTDOOR AIR SYSTEM UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	VENTILATION (CFM)	EXHAUST (CFM)	SA ESP ("WC)	SA TSP ("WC)	SA FAN (HP)	EA ESP ("WC)	EA TSP ("WC)	EA FAN (HP)	FILTER TYPE	FILTER EFFICIENCY	ENERGY RECOVERY										COOLING									HEAT PUMP				HEATING							ELECTRICAL			NOTES
															SUMMER					WINTER																											
															OUTDOOR AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	EXHAUST AIR DB/WB (°F)	ENTHALPY RECOVERY RATIO (%)	OUTDOOR AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	EXHAUST AIR DB/WB (°F)	ENTHALPY RECOVERY RATIO (%)	REFRIGERANT	AMBIENT AIR TEMP (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	REHEAT CAPACITY (MBH)	REHEAT LAT (°F)	ISMRE2	AMBIENT TEMP (°F)	EAT (°F)	LAT (°F)	CAPACITY (MBH)	ISCOP2	TYPE	TURN DOWN	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	V/PH/HZ	MCA	MOCP	
DOAS-1 (BASE BID)	GREENHECK	RVE-40-30D-5-1	3144	1250	1250	1150	0.5	1.256	1	0.5	1.068	1	PANEL	MERV 8	87/75	78.3/66.6	75/62.4	84.3/72.1	70.2	-15/-15.8	44.8/39.2	72/55.7	7/6.9	67.6	R-454B	95	78.3	66.6	48.7	48.6	37.8	63.6	47.3	85.1	8.5	47	64.8	110.4	59.4	3.9	GAS	16:1	100	81	110	170	460/3/60	18.1	25	1-8, 10
DOAS-1 (ALT #M02)	GREENHECK	RVE-20-30D-5-1	1412	1250	1250	1150	0.5	1.794	1	0.5	0.896	1	PANEL	MERV 8	87/75	78.3/66.6	75/62.4	84.3/72.1	70.2	-15/-15.8	44.8/39.2	72/55.7	7/6.9	67.6	R-454B	95	78.3	66.6	49	48.9	37.4	62.7	46.7	84.9	8.0	-	-	-	-	-	GAS	16:1	100	81	45	104.8	460/3/60	15.4	20	1-7,9,10

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE FACTORY MOUNTED NON-FUSED DISCONNECT.
3. PROVIDE 18" ROOF CURB.
4. PROVIDE W/ FACTORY MOUNTED BACNET MS/TP CONTROLLER. INTEGRATE W/ BAS.
5. PRIMARY HEAT SOURCE IS AIR SOURCE HEAT PUMP WITH NATURAL GAS SECONDARY HEATING.
6. PROVIDE GAS PRESSURE REGULATOR FROM 5 PSIG TO 7"-14" WC.
7. PROVIDE SPACE TEMPERATURE SENSOR WITHOUT SETPOINT ADJUSTMENT. PROVIDE OCCUPANCY OVERRIDE.
8. BASE BID: DUAL FUEL AIR SOURCE HEAT PUMP UNIT.
9. ALTERNATE #M02: ELECTRIC COOLING/GAS HEAT UNIT.
10. ALTERNATE #M03: PROVIDE FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR IN LIEU OF FACTORY INSTALLED BACNET CONTROLLER, DEVICES, AND SENSORS.

GAS-FIRED UNIT HEATER SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	AIRFLOW (CFM)	HEAT STAGES	HEAT INPUT (MBH)	HEAT OUTPUT (MBH)	TEMP RISE (°F)	EFF (%)	FAN (HP)	V/PH/HZ	AMPS	MOCP	NOTES
UH-1	124 MECHANICAL ROOM	MODINE	HDS125	1980	2	125	102.5	47	82	1/8	115/1/60	4.75	15	1-5

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE W/ FACTORY MOUNTED TOGGLE SWITCH DISCONNECT.
3. PROVIDE TWO STAGE GAS CONTROLS.
4. PROVIDE W/ VIBRATION ISOLATION KIT.
5. PROVIDE MANUFACTURER'S RELAY ACCESSORY. INTEGRATE INTO THE BAS TO DISABLE UNIT WHEN OUTDOOR TEMPERATURE IS ABOVE 40 DEG F.
6. PROVIDE GAS PRESSURE REGULATOR FROM 5 PSIG TO 7"-14" WC.

EXHAUST FAN SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	DRIVE	MOUNTING	AIRFLOW (CFM)	ESP ("WC)	HP	V/PH/HZ	FLA	MCA	MOCP	NOTES
EF-1	131 RESTROOM, 132 RESTROOM	GREENHECK	G-097-VG	DIRECT	ROOF CURB	150	0.35	1/4	115/1/60	3.8	4.8	15	1-6
EF-2	141 GYM STORAGE	GREENHECK	G-097-VG	DIRECT	ROOF CURB	150	0.25	1/4	115/1/60	3.8	4.8	15	1-6
EF-3	122 JAN., 123 RESTROOM	GREENHECK	G-097-VG	DIRECT	ROOF CURB	150	0.35	1/4	115/1/60	3.8	4.8	15	1-6
EF-4	114 BREAKROOM	GREENHECK	G-097-VG	DIRECT	ROOF CURB	250	0.25	1/4	115/1/60	3.8	4.8	15	1-6
EF-5	144 MURIATIC ACID	GREENHECK	CUE-060-VG	DIRECT	ROOF CURB	75	0.25	1/15	115/1/60	1.3	1.6	15	1-5,8,9
EF-6	143 CHLORINE	GREENHECK	CUE-060-VG	DIRECT	ROOF CURB	75	0.25	1/15	115/1/60	1.3	1.6	15	1-5,8,9
EF-7	125 POOL MECHANICAL	GREENHECK	CUE-140-VG	DIRECT	ROOF CURB	1500	0.35	1/2	115/1/60	6.6	8.2	15	1-5,8,9
EF-8	124 MECHANICAL ROOM	GREENHECK	G-099-VG	DIRECT	ROOF CURB	500	0.25	1/4	115/1/60	3.8	4.8	15	1-5, 7
EF-9	140 POOL STORAGE	GREENHECK	CUE-080-VG	DIRECT	ROOF CURB	250	0.25	1/6	115/1/60	2.8	1.9	15	1-5,8,9

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE WITH FACTORY DISCONNECT.
3. PROVIDE SPEED CONTROLLER FOR BALANCING.
4. PROVIDE GRAVITY BACKDRAFT DAMPER.
5. PROVIDE 18" CURB
6. INTERLOCK WITH OCCUPANCY SCHEDULE.
7. CONTROLLED WITH SPACE TEMPERATURE SENSOR.
8. RUN CONTINOUSLY.
9. PROVIDE WITH INDUSTRIAL EPOXY COATING AND UV RESISTANT TOP COAT.

HUMIDIFIER SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	DUCT SIZE (IN)	NOMINAL/RATED CAPACITY (LBS/HR)	HUMIDIFICATION LOAD (LBS/HR)	FILL RATE (GPM)	DRAIN RATE (GPM)	V/PH/HZ	MCA	MOCP	NOTES
H-1	RTU-2	CONDAIR	EL 010	ELECTRODE STEAM	4500	30 x 18	10/11	8.7	0.2	1.6	208/1/60	18	25	1-6

1. PROVIDED BY MC. POWERED BY EC.
2. FURNISH W/ DIGITAL WALL MOUNTED HUMIDISTAT TO BE FIELD INSTALLED.
3. FURNISH W/ HIGH LIMIT DUCT MOUNTED HUMIDISTAT TO BE FIELD INSTALLED.
4. FURNISH W/ AIR PROVING SWITCH TO BE FIELD INSTALLED.
5. PROVIDE W/ FACTORY MOUNTED BACNET MS/TP CONTROLLER. INTEGRATE W/ BAS.
6. EC SHALL PROVIDE DISCONNECT SWITCH.

PACKAGED ROOFTOP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	VENTILATION (CFM)	ESP ("WC)	TSP ("WC)	FILTER TYPE	FILTER EFFICIENCY	COOLING										HEAT PUMP				HEATING				ELECTRICAL				NOTES
										REFRIGERANT	AMBIENT AIR TEMP (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	SENSIBLE CAPACITY (BTUH)	TOTAL CAPACITY (BTUH)	EER	IEER	AMBIENT TEMP (°F)	TEMP RISE (°F)	CAPACITY (BTUH)	COP	TYPE	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	V/PH/HZ	FAN (HP)	MCA	MOCP	
RTU-1 (BASE BID)	TRANE	DHK072	1306	2570	150	1.0	1.26	PANEL	MERV 8	R-454B	95	74.7	61.9	54.3	52.7	56.6	68.0	12.3	15.8	47.0	25.0	69.4	3.4	GAS	80	64.8	65.0	88.6	460/3/60	3.0	24	30	1-12,15,16
RTU-2 (BASE BID)	TRANE	DHK180	2887	4500	450	1.0	1.25	PANEL	MERV 8	R-454B	95	76.1	68.2	57.5	56.0	91.0	174.8	11.4	17.0	47.0	33.9	165.0	3.6	GAS	250	202.5	61.6	104	460/3/60	2.9	45	60	1-12,14,15,16
RTU-3 (BASE BID)	TRANE	DHK240	3044	6720	893	1.5	1.95	PANEL	MERV 8	R-454B	95	76.9	62.9	53.7	52.0	170.1	212.4	10.4	16.4	47.0	29.6	214.6	3.4	GAS	250	202.5	41.4	69.5	460/3/60	4.3	60	80	1-11,13,16
RTU-1 (ALT #M02)	TRANE	YHK072	1254	2570	150	1.0	1.24	PANEL	MERV 8	R-454B	95	74.7	61.9	53.7	52.1	58.6	72.0	12.2	17.7	-	-	-	-	GAS	80	64.8	65.0	88.5	460/3/60	3.0	23	25	1-12,15,17
RTU-2 (ALT #M02)	TRANE	YHK180	2614	4500	450	1.0	1.23	PANEL	MERV 8	R-454B	95	76.1	68.2	55.2	55.0	93.3	177.2	12.2	18.5	-	-	-	-	GAS	250	202.5	61.6	104	460/3/60	3.0	43	50	1-12,14,15,17
RTU-3 (ALT #M02)	TRANE	YHK240	2719	6720	893	1.5	1.95	PANEL	MERV 8	R-454B	95	76.9	62.9	54.6	52.0	163.2	211.9	10.8	16.1	-	-	-	-	GAS	250	202.5	41.4	69.6	460/3/60	4.6	60	80	1-11,13,17
RTU-1 (ALT #M03)	AAON	RNA006	1329	2570	150	1.0	2.02	PANEL	MERV 8	R-454B	95	74.7	61.9	54.3	52.9	56.3	64.9	12.7	14.5	47.0	22.9	63.8	2.9	GAS	90	73.0	65.0	90.8	460/3/60	2.0	20	25	1-8,10-12,15,18
RTU-2 (ALT #M03)	AAON	RNA015	2211	4500	450	1.0	2.55	PANEL	MERV 8	R-454B	95	76.1	68.2	56.4	55.3	95.1	178.6	10.7	13.5	47.0	35.5	173.5	2.9	GAS	195	158.0	61.6	93.4	460/3/60	5.0	46	50	1-8,10-12,14,15,18
RTU-3 (ALT #M03)	AAON	RNA016	3168	6720	893	1.5	2.99	PANEL	MERV 8	R-454B	95	76.9	62.9	54.6	53.2	160.6	184.9	11.2	13.9	47.0	25.7	187.9	2.9	GAS	270	218.7	51.4	81.1	460/3/60	7.5	53	60	1-8,10,11,13,18

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE MODULATING HOT GAS REHEAT.
3. PROVIDE MINIMUM 10:1 MODULATING GAS HEAT.
4. PROVIDE NON-FUSED DISCONNECT AND THRU BASE ELECTRICAL CONNECTION.
5. PROVIDE 15A CONVENIENCE OUTLET POWERED UPSTREAM OF DISCONNECT.
6. PROVIDE DRY BULB ECONOMIZER.
7. PROVIDE POWERED EXHAUST FAN.
8. PROVIDE 18" CURB
9. PROVIDE W/ FACTORY MOUNTED BACNET MS/TP CONTROLLER. INTEGRATE W/ BAS.
10. PROVIDE GAS PRESSURE REGULATOR FROM 5 PSIG TO 7"-14" WC.
11. PROVIDE RETURN AIR SMOKE DETECTOR. WIRED TO FIRE ALARM SYSTEM BY FA CONTRACTOR.
12. SINGLE ZONE VAV.
13. MULTI-ZONE VAV.
14. PROVIDE DUCT MOUNTED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
15. PROVIDE SPACE TEMPERATURE SENSOR WITHOUT SETPOINT ADJUSTMENT. PROVIDE OCCUPANCY OVERRIDE.
16. BASE BID: DUAL FUEL AIR SOURCE HEAT PUMP UNIT.
17. ALTERNATE #M02: ELECTRIC COOLING/GAS HEAT UNIT.
18. ALTERNATE #M03: PROVIDE FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR IN LIEU OF FACTORY INSTALLED BACNET CONTROLLER, DEVICES, AND SENSORS.

LOUVER SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	SIZE (IN)	AIRFLOW (CFM)	PRESSURE DROP (" WC)	VELOCITY (FPM)	NOTES
L-1	MAU-1	GREENHECK	ESD-635	24 x 24	1650	0.12	906	1-3
L-2	UH-1	GREENHECK	ESD-635	14 x 24	500	0.04	519	1-4

1. PROVIDE W/ FACTORY INSTALLED BIRD SCREEN.
2. PROVIDE W/ FLANGED FRAME AND EXTEDED SILL WITH END DAMS.
3. PROVIDE W/ STANDARD COLOR KYNAR COATING. FINAL COLOR SELECTION BY ARCHITECT.
4. PROVIDE GRAVITY DAMPER.

ELECTRIC WALL HEATER SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	MOUNTING	KW	V/PH/HZ	AMPS	NOTES
EWH-1	142 GYMNASIUM STORAGE	QMARK	AWH3150F	RECESSED	1.5	120/1/60	12.5	1-4
EWH-2	141 GYMNASIUM STORAGE	QMARK	AWH45083F	RECESSED	4.8	208/3/60	13.3	1-4
EWH-3	140 POOL STORAGE	QMARK	AWH45083F	RECESSED	4.8	208/3/60	13.3	1-4

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. PROVIDE INTEGRAL THERMOSTAT.
4. PROVIDE MANUFACTURER'S RELAY ACCESSORY. INTEGRATE INTO THE BAS TO DISABLE UNIT WHEN OUTDOOR TEMPERATURE IS ABOVE 40 DEG F.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE (INCHES)	NECK SIZE (INCHES)	BLADE SPACING (INCHES)	DEFLECTION (DEG)	MATERIAL	FINISH	MOUNTING	SYSTEM	NOTES
CD-1	PRICE	SPD	SQUARE PLAQUE	24 x 24	6	-	-	STEEL	WHITE POWDER COAT	LAY-IN	SUPPLY	1,2
CD-2	PRICE	SPD	SQUARE PLAQUE	24 x 24	8	-	-	STEEL	WHITE POWDER COAT	LAY-IN	SUPPLY	1,2
CD-3	PRICE	SPD	SQUARE PLAQUE	24 x 24	10	-	-	STEEL	WHITE POWDER COAT	LAY-IN	SUPPLY	1,2
LD-1	PRICE	LV1	1-WAY LINEAR VANE	-	48 x 5	-	-	STEEL	WHITE POWDER COAT	SIDEWALL	SUPPLY	1,2,4
LD-2	PRICE	LV1	1-WAY LINEAR VANE	-	60 x 5	-	-	STEEL	WHITE POWDER COAT	SIDEWALL	SUPPLY	1,2,4
SD-1	PRICE	TBD3	LINEAR SLOT - ICE TONG	48	10	4 - 1" SLOTS	-	STEEL	WHITE POWDER COAT	LAY-IN	SUPPLY	1,2
SG-1	PRICE	SDG	SPIRAL DUCT GRILLE	14 x 6	-	NA	NA	ALUMINUM	WHITE POWDER COAT	DUCT	SUPPLY	2,3
RG-1	PRICE	SPD	SQUARE PLAQUE	24 x 24	12	-	-	STEEL	WHITE POWDER COAT	LAY-IN	RETURN	1,2
RG-2	PRICE	99	HEAVY DUTY GYM	-	48 x 10	1/2	30	ALUMINUM	WHITE POWDER COAT	SIDEWALL	RETURN	1,2,5
RG-3	PRICE	99	HEAVY DUTY GYM	-	48 x 20	1/2	30	ALUMINUM	WHITE POWDER COAT	SIDEWALL	RETURN	1,2,5
EG-1	PRICE	SPD	SQUARE PLAQUE	24 x 24	6	-	-	STEEL	WHITE POWDER COAT	LAY-IN	EXHAUST	1,2
EG-2	PRICE	SPD	SQUARE PLAQUE	24 x 24	8	-	-	STEEL	WHITE POWDER COAT	LAY-IN	EXHAUST	1,2
TG-1	PRICE	SPD	SQUARE PLAQUE	24 x 24	12	-	-	STEEL	WHITE POWDER COAT	LAY-IN	TRANSFER	1,2
TG-1	PRICE	99	HEAVY DUTY GYM	-	18 x 6	1/2	30	ALUMINUM	WHITE POWDER COAT	SIDEWALL	TRANSFER	2
TG-3	PRICE	80	EGG CRATE	24 x 24	-	1/2	-	ALUMINUM	WHITE POWDER COAT	LAY-IN	TRANSFER	2

1. CONFIRM CEILING TYPE PRIOR TO ORDERING.
2. SEE DRAWINGS FOR AIRFLOW.
3. PROVIDE WITH ROD OPERATED AIR SCOOP.
4. PROVIDE WITH DIFFUSER PLENUM AND REMOTE OPERATED CABLE BALANCE DAMPER EQUAL TO PRICE VCR8EC. MOUNT DAMPER OPERATOR IN PLENUM.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE (INCHES)		AIRFLOW (CFM)			STATIC PRESSURE ("WC)			HEAT				ELECTRICAL			NOTES
			INLET	OUTLET	MAX	MIN	HEATING	INLET	DOWN	MIN	TYPE	KW	STAGES	EAT (°F)	LAT (°F)	V/PH/HZ	MCA	MOCP	
VAV-1	TRANE	VCEF	14	19x18	2660	800	1050	1	0.5	0.01	ELECTRIC	15	SCR	45	91.4	208/3/60	52	60	1-7
VAV-2	TRANE	VCEF	12	14x14	1130	340	700	1	0.5	0.02	ELECTRIC	10	SCR	45	91.4	208/3/60	35	35	1-7
VAV-3	TRANE	VCEF	8	11x10	690	210	210	1	0.5	0.06	ELECTRIC	3	SCR	45	91.4	208/3/60	11	15	1-7
VAV-4	TRANE	VCEF	12	14x17	1140	340	700	1	0.5	0.02	ELECTRIC	10	SCR	45	91.4	208/3/60	35	35	1-7
VAV-5	TRANE	VCEF	8	11x10	460	140	210	1	0.5	0.03	ELECTRIC	3	SCR	45	91.4	208/3/60	11	15	1-6,8
VAV-6	TRANE	VCEF	6	11x10	320	100	210	1	0.5	0.09	ELECTRIC	3	SCR	45	91.4	208/3/61	11	15	1-6,8
VAV-7	TRANE	VCEF	6	11x10	320	100	210	1	0.5	0.09	ELECTRIC	3	SCR	45	91.4	208/3/60	11	15	1-6,8

1. PROVIDED BY MC. POWERED BY EC.
2. TCC SHALL PROVIDE TRANSFORMERS AS NEEDED AND COORDINATE ADDITIONAL ELECTRICAL NEEDS WITH EC.
3. PROVIDE INLET DUCT THAT IS MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT SAME SIZE AS UNIT INLET.
4. PROVIDE FACTORY MOUNTED DISCONNECT.
5. CONTROLS FIELD MOUNTED BY TCC.
6. FIELD VERIFY LEFT OR RIGHT HAND ELECTRIC/CONTROLS ENCLOSURE. MAINTAIN MINIMUM 36" CLEARANCE.
7. PROVIDE SPACE TEMPERATURE SENSOR WITHOUT SETPOINT ADJUSTMENT. PROVIDE OCCUPANCY OVERRIDE.
8. PROVIDE SPACE TEMPERATURE SENSOR WITH SETPOINT ADJUSTEMENT AND OCCUPANCY OVERRIDE. PROVIDE TWO AVERAGING SENSORS FOR EACH UNIT, ONE FOR EACH OFFICE.

MAKE-UP AIR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	AIRFLOW (CFM)	ESP ("WC)	SA TSP ("WC)	SA FAN (HP)	FILTER TYPE	FILTER EFFICIENCY	HEATING					ELECTRICAL			NOTES
										TYPE	INPUT (MBH)	OUTPUT (MBH)	TURNDOWN	EAT (°F)	LAT (°F)	V/PH/HZ	MCA	MOCP	
MAU-1	GREENHECK	IGX-P109-H12-MF-G	982	1650	0.5	0.703	3/4	PANEL	MERV 8	GAS	200	162	16:1	-15	75.8	460/3/60	2.6	15	1-9

1. PROVIDED BY MC. POWERED BY EC.
2. PROVIDE NON-FUSED DISCONNECT.
3. PROVIDE LOW-LEAKAGE FACTORY MOUNTED AND WIRED INLET DAMPER.
4. PROVIDE ALL MOUNTING HARDWARE TO SUSPEND UNIT.
5. PROVIDE NEOPRENE VIBRATION ISOLATION HANGERS.
6. PROVIDE W/ FACTORY MOUNTED BACNET MS/TP CONTROLLER. INTEGRATE W/ BAS.
7. PROVIDE SPACE TEMPERATURE SENSOR WITH SETPOINT ADJUSTEMENT.
8. PROVIDE GAS PRESSURE REGULATOR FROM 5 PSIG TO 7"-14" WC.
9. ALTERNATE #M03: PROVIDE FIELD INSTALLED CONTROLS BY TEMPERATURE CONTROLS CONTRACTOR IN LIEU OF FACTORY INSTALLED BACNET CONTROLLER, DEVICES, AND SENSORS.

PUMP SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	MOUNTING	ENCLOSURE	SUCTION (IN)	DISCHARGE (IN)	FLOW (GPM)	PD (FT HD)	NPSHr (FT HD)	HP	V/PH/HZ	FLA	NOTES
P-1	PDU-1	AMT	5020	BASE	TEFC	1-1/4	1	50	50	10	1.5	208/1	11	1-5

1. PROVIDED BY MC, WIRED BY EC.
2. MOTOR STARTER/DISCONNECT BY EC.
3. MC SHALL PROVIDE MOUNTING PAD.
4. PROVIDE CHECK VALVE, BALANCE VALVE, AND ISOLATION VALVE AT DISCHARGE OF PUMP.
5. ALTERNATE #M01: REMOVE POOL WATER CONDENSER ENERGY RECOVERY AND ASSOCIATED HYDRONIC SYSTEM INCLUDING BUT NOT LIMITED TO PUMP, PIPING, PIPE SPECIALTIES, HANGERS AND SUPPORTS, AND INSULATION.

CONDENSER SCHEDULE

TAG	SERVING	MANUFACTURER	MODEL	WEIGHT (LBS)	REFRIGERANT	AMBIENT AIR TEMP (°F)	NOMINAL CAPACITY (MBH/°F)	V/PH/HZ	FLA	MCA	MOCP	NOTES
CU-1	PDU-1	DESERTAIRE	RC8S18C	869	R-454B	87	18	460/3/60	8.4	9.5	15	1-5

1. PROVIDED BY MC. POWERED BY EC.
2. WIRE TO PDU-1 UNIT CONTROLLER.
3. PROVIDE WITH ROOF RAILS FOR MOUNTING AND ANCHORING TO ROOF.
4. PROVIDE WITH FACTORY MOUNTED DOOR INTERUPT DISCONNECT SWITCH FOR EACH CIRCUIT.
5. INSTALL REFRIGERANT PIPING AND ACCESSORIES PER MANUFACTURERS INSTALLATION INSTRUCTIONS. INSTALL P-TRAPS, INVERTED TRAPS, SHRADER PORTS, AND CHECK VALVES ON HOT GAS PIPNG AS REQUIRED.

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MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
MECHANICAL SCHEDULES

Project Number: 20250550

Sheet Number
M701

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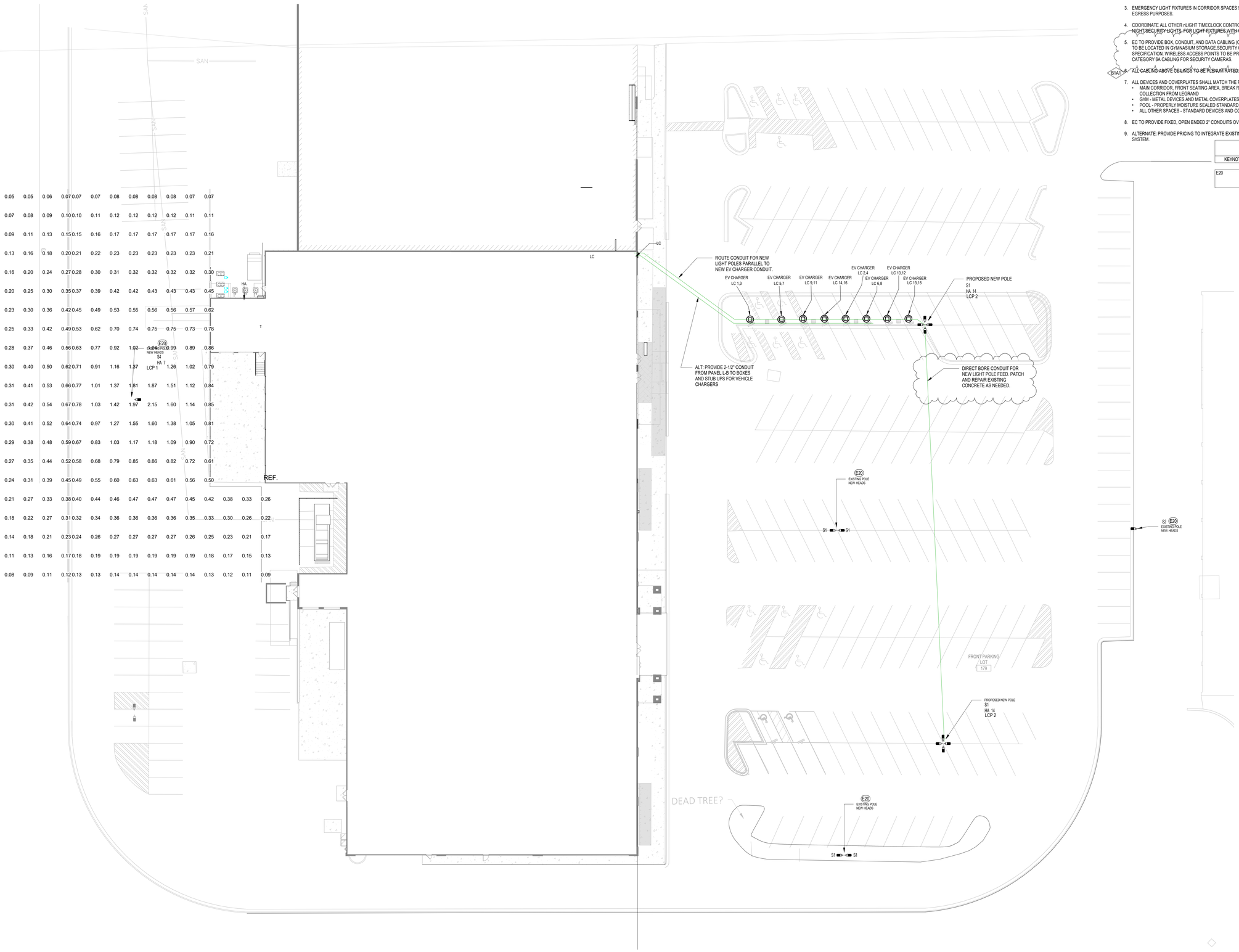
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B1A1

ELECTRICAL GENERAL NOTES:

1. SPACE ABOVE CEILING IS A RETURN AIR PLENUM. ALL MATERIALS WITHIN SAID SPACE SHALL BE SUITABLE FOR INSTALLATION IN A RETURN AIR PLENUM.
2. COORDINATE ALL LIGHTING CONTROL DEVICE (INCLUDING OCCUPANCY AND VACANCY SENSOR) TIME SETTINGS AND SENSITIVITY SETTINGS WITH OWNER (2) WEEKS PRIOR TO COMMISSIONING.
3. EMERGENCY LIGHT FIXTURES IN CORRIDOR SPACES SHALL BE PROGRAMMED FOR 24/7 OPERATION FOR EGRESS PURPOSES.
4. COORDINATE ALL OTHER nLIGHT TIMECLOCK CONTROL SETTINGS, INCLUDE CORRIDOR SPACE NIGHT/SECURITY LIGHTS, FOR LIGHT FIXTURES WITH OWNER AT TIME OF COMMISSIONING.
5. EC TO PROVIDE BOX, CONDUIT, AND DATA CABLING (CAT 6. TYP.) FOR ALL DATA DROP EQUIPMENT. IDF RACK TO BE LOCATED IN GYMNASIUM STORAGE.SECURITY CAMERAS TO BE PROVIDE BY EC BASED ON OWNER SPECIFICATION. WIRELESS ACCESS POINTS TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE (1) CATEGORY 6A CABLING FOR SECURITY CAMERAS.
6. ALL CABLING ABOVE CEILINGS TO BE PLENUM RATED. B1A1
7. ALL DEVICES AND COVERPLATES SHALL MATCH THE FOLLOWING STANDARDS:
   - MAIN CORRIDOR, FRONT SEATING AREA, BREAK ROOM, AND POOL VIEWING ROOM - THE RADIANT COLLECTION FROM LEGRAND
   - GYM - METAL DEVICES AND METAL COVERPLATES
   - POOL - PROPERLY MOISTURE SEALED STANDARD DEVICES/COVERPLATES
   - ALL OTHER SPACES - STANDARD DEVICES AND COVERPLATES
8. EC TO PROVIDE FIXED, OPEN ENDED 2" CONDUITS OVER HARD CEILINGS FOR DATA. IDENTIFY AT EACH END.
9. ALTERNATE: PROVIDE PRICING TO INTEGRATE EXISTING NLIGHT CONTROL INTO NEW NLIGHT CONTROL SYSTEM.

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
E20	FIELD VERIFY EXISTING LIGHT POLE CONDITIONS PRIOR TO PURCHASE OF LIGHT FIXTURE TO MATCH MOUNTING EQUIPMENT REQUIRED.



N

E100 **ELECTRICAL SITE PLAN**

SCALE: 1" = 20'-0"

0 1/2" 2" 4"

1" = 20'-0"

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Sheet Title
ELECTRICAL SITE PLAN

Project Number: 20250550

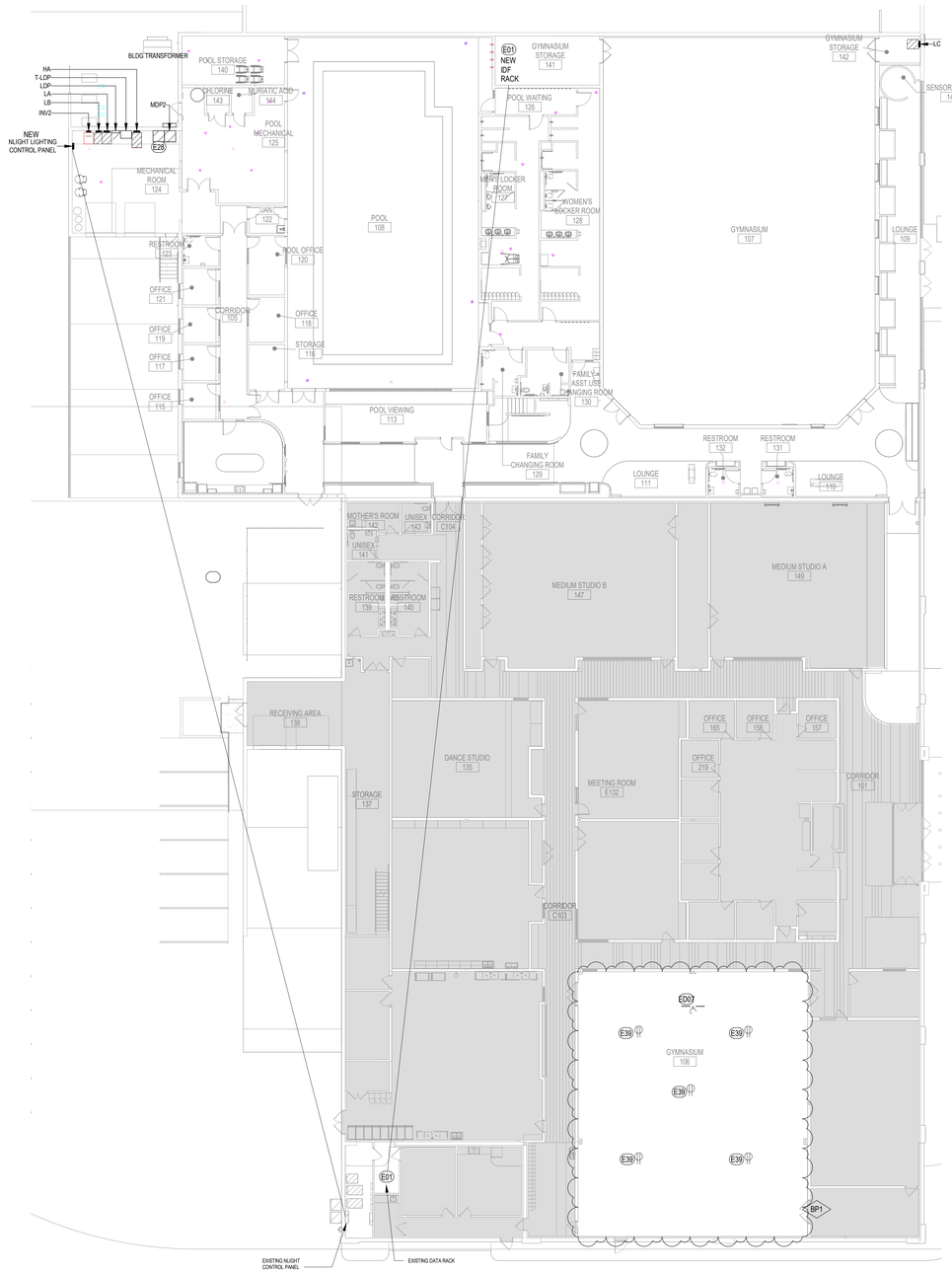
Sheet Number
E100

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ELECTRICAL GENERAL NOTES:

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2. COORDINATE ALL LIGHTING CONTROL DEVICE (INCLUDING OCCUPANCY AND VACANCY SENSOR) TIME SETTINGS AND SENSITIVITY SETTINGS WITH OWNER (2) WEEKS PRIOR TO COMMISSIONING.
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4. COORDINATE ALL OTHER nLIGHT TIMECLOCK CONTROL SETTINGS, INCLUDE CORRIDOR SPACE NIGHT/SECURITY LIGHTS. FOR LIGHT FIXTURES WITH OWNER AT TIME OF COMMISSIONING.
5. EC TO PROVIDE BOX, CONDUIT, AND DATA CABLING (CAT 6, TYP.) FOR ALL DATA DROP EQUIPMENT. IDF RACK TO BE LOCATED IN GYMNASIUM STORAGE.SECURITY CAMERAS TO BE PROVIDE BY EC BASED ON OWNER SPECIFICATION. WIRELESS ACCESS POINTS TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE (1) CATEGORY 6A CABLING FOR SECURITY CAMERAS.
6. ALL CABLING ABOVE CEILINGS TO BE PLENUM RATED. (B1A1)
7. ALL DEVICES AND COVERPLATES SHALL MATCH THE FOLLOWING STANDARDS:
   - MAIN CORRIDOR, FRONT SEATING AREA, BREAK ROOM, AND POOL VIEWING ROOM - THE RADIANT COLLECTION FROM LEGRAND
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8. EC TO PROVIDE FIXED, OPEN ENDED 2" CONDUITS OVER HARD CEILINGS FOR DATA. IDENTIFY AT EACH END.
9. ALTERNATE: PROVIDE PRICING TO INTEGRATE EXISTING NLIGHT CONTROL INTO NEW NLIGHT CONTROL SYSTEM.



KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
E01	EC TO PROVIDE 1" INTERDUCT CONDUIT AND 12-STRAND SINGLE MODE FIBER FROM EXISTING MSCR MDF ROOM TO THIS LOCATION. FIBER TO BE TERMINATED BY OWNER.
E28	EC TO PROVIDED (3) 3" CONDUITS TO ROOF WITH CAP FROM MDP FOR FUTURE SOLAR.
E39	COORDINATE WITH MC TO PROVIDE DUPLEX RECEPTACLES IN RAFTERS OF EXISTING GYMNASIUM 106 FOR AIR PEAR DESTRATIFICATION FANS. ALL RECEPTACLES TO BE TIED TO THE SAME CIRCUIT AND FED TO THE NEAREST PANEL WITH 120V 1-PHASE CAPACITY AT A 20A BREAKER.
ED07	EXISTING BASKETBALL HOOP AND CONTROLS SCHEDULED TO BE RE-USED IN NEW GYM TO HAVE CONTROLLER REMOVED FOR RELOCATION WITH EXISTING CONDUIT TO REMAIN AND WIRING TO BE CAPPED IN JUNCTION BOX AND SEALED. BLACK COVERPLATE FOR ABANDONED CONTROLLER TO MATCH FINISH OF NEARBY DEVICES. (B1A1)

N

1 E201 **FIRST FLOOR OVERALL**
SCALE: 1/16" = 1'-0"

0 8' 16' 32'
0 2"
1/16" = 1'-0"

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ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
FIRST FLOOR OVERALL

Project Number: 20250550

Sheet Number
E201

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5. EC TO PROVIDE BOX, CONDUIT, AND DATA CABLING (CAT 6, TYP.) FOR ALL DATA DROP EQUIPMENT. IDF RACK TO BE LOCATED IN GYMNASIUM STORAGE SECURITY CAMERAS TO BE PROVIDE BY EC BASED ON OWNER SPECIFICATION. WIRELESS ACCESS POINTS TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE (1) CATEGORY 6A CABLING FOR SECURITY CAMERAS.
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9. ALTERNATE: PROVIDE PRICING TO INTEGRATE EXISTING NLIGHT CONTROL INTO NEW NLIGHT CONTROL SYSTEM.

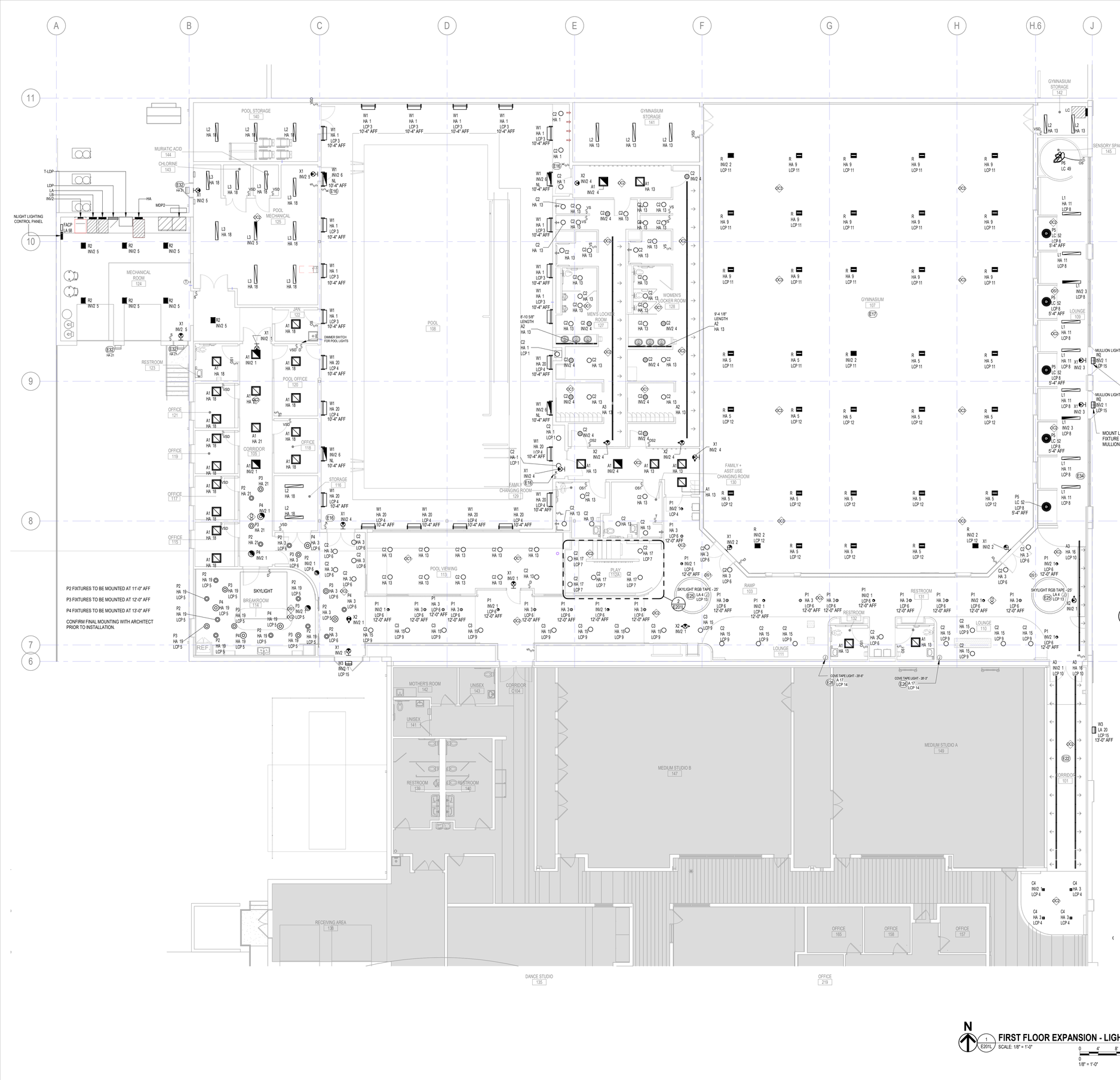
KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
E16	LIGHT SWITCHES IN THE MAIN POOL ROOMS SHALL BE COVERED AND ACCESSIBLE ONLY BY KEY. LIGHT SWITCH LOCATIONS FOR INTERIOR OPENING CHEMICAL STORAGE ROOMS SHALL BE LOCATED OUTSIDE OF AND ADJACENT TO EACH RESPECTIVE ROOM. LIGHT SWITCH LOCATIONS FOR OUTSIDE ACCESS ROOMS SHALL BE LOCATED INSIDE EACH RESPECTIVE ROOM.
E17	COORDINATE LIGHT FIXTURES AND CEILING MOUNTED LIGHTING CONTROLS WITH CEILING TREATMENT AND SOUND CONTROL INSTALLERS. TYPE R FIXTURES TO BE MOUNTED DIRECTLY TO JOISTS.
E22	PROVIDE FIRE RATED SLEEVE FOR ALL EQUIPMENT BEING SERVED IN THIS SPACE FROM NEW RENOVATION SYSTEMS.
E25	PROVIDE 25' OF GENLED RB-0-RGBM20-3.0RGB WITH DMX-RGB DRIVER IN SKYLIGHT COVE AS DETAILED IN ARCHITECTURAL DRAWINGS WITH DIODES FACING UPWARDS. INSTALL DRIVER ABOVE NEARBY ACCESSIBLE CEILING WITH CABLE ROUTED THROUGH SKYLIGHT CAVITY INTO RGB LIGHTS. CUT TAPE AS NEEDED TO ENCOMPASS THE SKYLIGHT LID.
E26	PROVIDE LENGTH SHOWN ON PLANS OF GENLED RB-S-SWS220-2.235-WH-B1 CHANNEL WITH MILKY LENS DRIVER WITH DMX-RGB DRIVER IN CHANNEL AS DETAILED IN ARCHITECTURAL DRAWINGS WITH DIODES FACING UPWARDS. INSTALL DRIVER IN NEAREST ACCESSIBLE LOCATION THAT CAN BE HIDDEN FROM VIEW WITH CABLE ROUTED THROUGH WALL INTO TAPE LIGHTS. CUT TAPE AS NEEDED.
E32	RE-CIRCUIT EXTERIOR EXISTING LIGHTING TO NEW PANEL HA. VERIFY AND RE-USE EXISTING CONTROLS AS POSSIBLE.
E34	FOR FINAL SUSPENSION MOUNTING HEIGHT FOR LIGHT FIXTURES AND COORDINATE IN FIELD WITH CEILING TREATMENT AND SOUND CONTROL INSTALLERS.

P2 FIXTURES TO BE MOUNTED AT 11'-0" AFF

P3 FIXTURES TO BE MOUNTED AT 12'-0" AFF

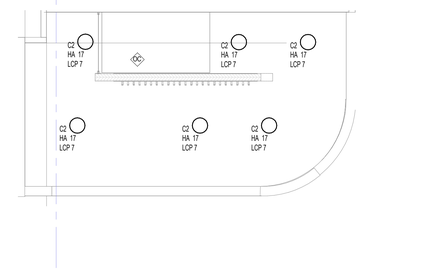
P4 FIXTURES TO BE MOUNTED AT 13'-0" AFF

CONFIRM FINAL MOUNTING WITH ARCHITECT PRIOR TO INSTALLATION.



ENLARGED LIGHTING PLAN - PLAY 112B

SCALE: 1/4" = 1'-0"



FIRST FLOOR EXPANSION - LIGHTING PLAN

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

0 1/8" = 1'-0" 2"

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B1A1	BP#1 ADD#1	05-15-26

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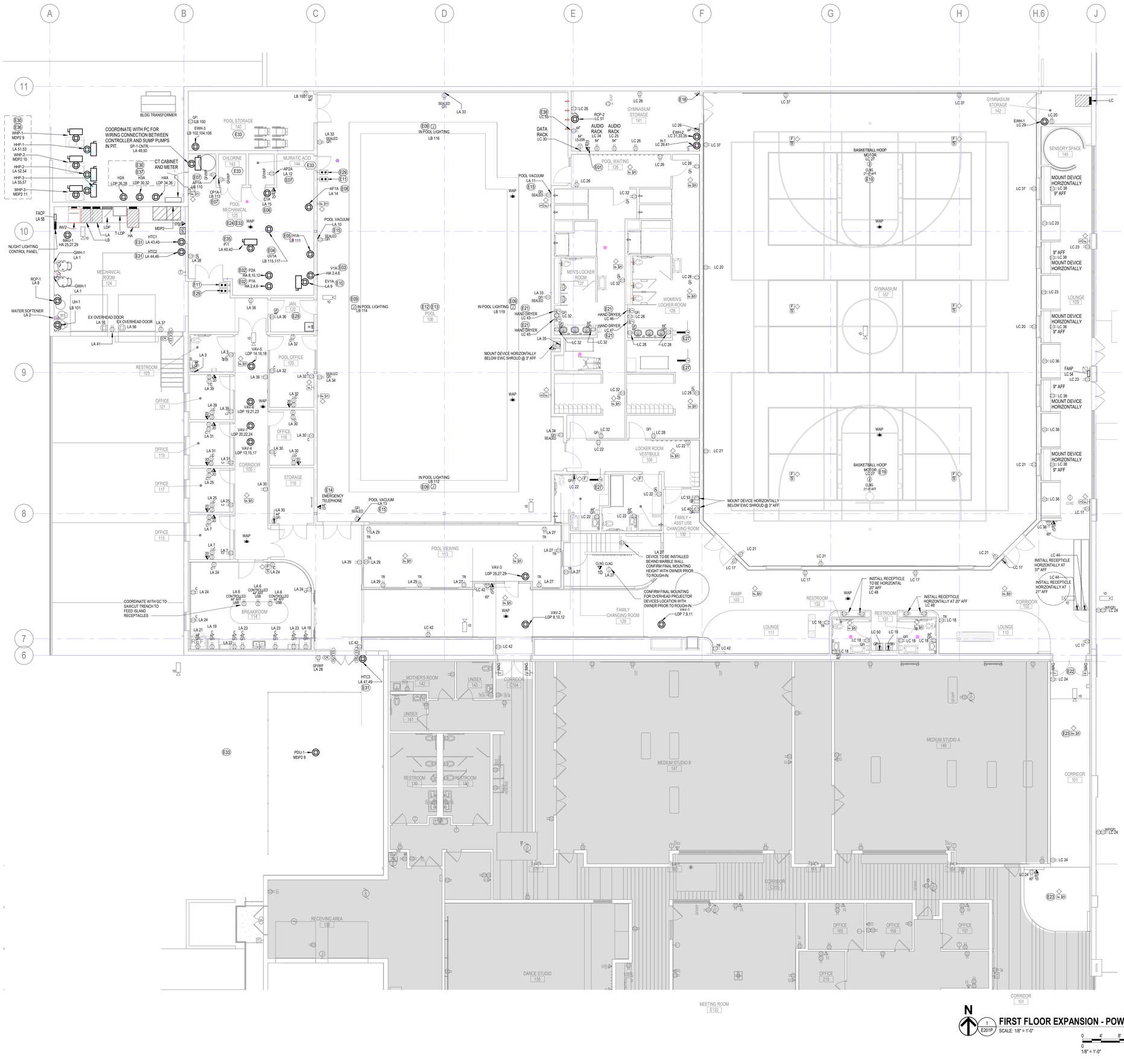
Sheet Title
FIRST FLOOR EXPANSION - LIGHTING PLAN

Project Number: 20250550

Sheet Number
E201L

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ELECTRICAL GENERAL NOTES:

1. SPACE ABOVE CEILING IS A RETURN AIR PLENUM. ALL MATERIALS WITHIN SAID SPACE SHALL BE SUITABLE FOR INSTALLATION IN A RETURN AIR PLENUM.
2. COORDINATE ALL LIGHTING CONTROL DEVICE (INCLUDING OCCUPANCY AND VACANCY SENSOR) TIME SETTINGS AND SENSITIVITY SETTINGS WITH OWNER (2) WEEKS PRIOR TO COMMISSIONING.
3. EMERGENCY LIGHT FIXTURES IN CORRIDOR SPACES SHALL BE PROGRAMMED FOR 24/7 OPERATION FOR EGRESS PURPOSES.
4. COORDINATE ALL OTHER nLIGHT TIMECLOCK CONTROL SETTINGS, INCLUDE CORRIDOR SPACE NIGHT/SECURITY LIGHTS, FOR LIGHT FIXTURES WITH OWNER AT TIME OF COMMISSIONING.
5. EC TO PROVIDE BOX, CONDUIT, AND DATA CABLING (CAT 6, TYP.) FOR ALL DATA DROP EQUIPMENT. IDF RACK TO BE LOCATED IN GYMNASIUM STORAGE.SECURITY CAMERAS TO BE PROVIDE BY EC BASED ON OWNER SPECIFICATION. WIRELESS ACCESS POINTS TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE (1) CATEGORY 6A CABLING FOR SECURITY CAMERAS.
6. ALL CABLING ABOVE CEILINGS TO BE PLENUM RATED. (B1A1)
7. ALL DEVICES AND COVERPLATES SHALL MATCH THE FOLLOWING STANDARDS:
   - MAIN CORRIDOR, FRONT SEATING AREA, BREAK ROOM, AND POOL VIEWING ROOM - THE RADIANT COLLECTION FROM LEGRAND
   - GYM - METAL DEVICES AND METAL COVERPLATES
   - POOL - PROPERLY MOISTURE SEALED STANDARD DEVICES/COVERPLATES
   - ALL OTHER SPACES - STANDARD DEVICES AND COVERPLATES
8. EC TO PROVIDE FIXED, OPEN ENDED 2" CONDUITS OVER HARD CEILINGS FOR DATA. IDENTIFY AT EACH END.
9. ALTERNATE: PROVIDE PRICING TO INTEGRATE EXISTING NLIGHT CONTROL INTO NEW NLIGHT CONTROL SYSTEM.

KEYNOTE LEGEND	
KEYNOTE	DESCRIPTION
E01	EC TO PROVIDE 1" INTERDUCT CONDUIT AND 12-STRAND SINGLE MODE FIBER FROM EXISTING MSCR MDF ROOM TO THIS LOCATION. FIBER TO BE TERMINATED BY OWNER.
E02	PROVIDE FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS. MINIMUM 18" IN LENGTH. FLEXIBLE CONDUIT IS REQUIRED FOR FUTURE MOTOR REMOVAL. SEE PL400 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
E03	VFD UNIT TO PROVIDE LOW VOLTAGE POWER TO EACH FLOW METER SENSOR (PROVIDED BY POOL CONTRACTOR). PROVIDE (4) 20MA LINE FROM VFD ANALOG OUTPUT TO REPEAT SIGNAL TO CHEMICAL CONTROLLER.
E04	HARDWIRE UV CONTROL CABINET AND UV CHAMBER ON DEDICATED CIRCUIT. EXTERNAL BREAKER SHALL BE AN INSTANTANEOUS TRIP. ALL EXTERNAL BREAKERS SHALL ACCOUNT FOR VOLTAGE VARIATIONS +/- 3%. PROVIDE MINIMUM 1-1/2" CONDUIT FOR LAMP POWER CORD FROM CONTROL CABINET TOCHAMBER (LAMP POWER CORDS PROVIDED WITH UV SYSTEM). ELECTRICAL TO INSTALL BOTH CONDUIT AND POWER CORD. PROVIDE MINIMUM OF 1" CONDUIT FOR LOW VOLTAGE/SIGNAL CABLES FROM CONTROL CABINET TO CHAMBER (PROVIDED WITH UV SYSTEM). ELECTRICAL ENGINEER TO VERIFY POWER SOURCE FOR UV SYSTEM. EXTERNAL STEP UP/ STEP DOWN TRANSFORMER MAY BE REQUIRED. VERIFY TRANSFORMER REQUIREMENTS WITH POOL ENGINEER.
E05	HARD WIRE ONE DEDICATED GFI PROTECTED CIRCUIT FOR THE POOL HEATER (H1A). PROVIDE POOL HEATER CIRCULATION PUMP DISCONNECT SWITCH NEAR THE POOL HEATER OR DOOR. LABEL THIS SWITCH "POOL HEATER CIRCULATION PUMP" AND PROVIDE A PERMANENT LABEL BENATH THE SWITCH: "TURN OFF HEATER 5 MINUTES PRIOR TO TURNING OFF THE HEATER CIRCULATION PUMP." PROVIDE EMERGENCY POWER OFF (EPO) AND DISCONNECT SWITCHES PER NEC REQUIREMENTS.
E06	HARDWIRE EACH CHEMICAL CONTROLLER (C1A). PROVIDE (1) DEDICATED GFI CIRCUIT TO CHEMICAL CONTROLLER. PROVIDE SUPPLY TO THE CHEMICAL CONTROLLER IS RATED 15A AT 120V, 1-PHASE. PROVIDE INTERNECT CONNECTION TO CHEMICAL CONTROLLER.
E07	PROVIDE (1) DUPLEX RECEPTACLE FOR POWER TO THE CHEMICAL FEEDER (CP1A, AP1A, AP2A) AND HARDWIRE IT DIRECTLY TO THE CHEMICAL FEED RELAYS ON THE CHEMICAL CONTROLLER'S TERMINAL BLOCK. THE CHEMICAL CONTROLLER SHALL BE THE POWER SOURCE FOR THE DUPLEX OUTLET. WIRE THROUGH A 3-WAY SWITCH TO DIRECT POWER SOURCES FOR THE CO2 AND ACID FEEDERS.
E08	CHEMICAL CONTROLLER (AF1A) SHALL BE THE POWER SOURCE FOR THE WATER LEVEL CONTROL VALVE. HARDWIRE 120V, 1 PHASE POWER DIRECTLY FROM THE AUTOFILL'S "WATER LEVEL CONTROL ELECTRONIC VALVE" TO THE 'AUTOFILL RELAY' ON THE CHEMICAL CONTROLLERS TERMINAL BLOCK.
E09	PROVIDE POWER TO UNDERWATER POOL LIGHTS. THE POOL CONTRACTOR TO INSTALL THE LIGHT NICHE. THE EC SHALL PROVIDE A WATER-TIGHT CONDUIT FROM THE LIGHT NICHE TO A JUNCTION BOX. INSTALL THE JUNCTION BOXES WITHIN 100' OF THE LIGHT NICHE LOCATION AND LOCATE JUNCTION BOXES ABOVE POOL WATER LEVEL. INSTALL THE UNDERWATER LIGHTS AND WIRING IN ACCORDANCE WITH NEC AND LOCAL CODES. CONNECT THE LIGHTS TO GFI PROTECTED BREAKERS. SEE POOL LIGHT DETAIL ON 5/PL101 FOR ADDITIONAL INFORMATION.
E10	PROVIDE POWER TO MAIN DRAIN DIGITAL POSITION VALVE. EACH VALVE REQUIRES SEPARATE POWER.
E11	PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS. COORDINATE EMERGENCY SHUTOFF BUTTON LOCATIONS WITH OWNER/ARCHITECT.
E12	BOND AND GROUND ALL POOL MECHANICAL EQUIPMENT, UNDERWATER POOL LIGHTS, POOL REINFORCING STEEL, ACTIVITIES, DECK EQUIPMENT, PERIMETER SURFACES AND ALL OTHER EMBEDDED METALLIC ITEMS IN COMPLIANCE WITH N.E.C. AND LOCAL ELECTRICAL CODES. SEE PL DRAWINGS FOR LOCATIONS OF POOL MECHANICAL EQUIPMENT, POOL REINFORCING STEEL, ACTIVITIES, AND DECK EQUIPMENT. COORDINATE DECK BONDING GRID REQUIREMENTS WITH THE DECK ENGINEER.
E13	PROVIDE AN EQUIPOTENTIAL BONDING GRID IN POOL DECK SURROUNDING ALL POOLS PER N.E.C. 680.26. GRID SHALL ADHERE TO THE FOLLOWING: COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN. BE BONDED TO THE POOL REINFORCING STEEL.
E14	CONFIRM FINAL MOUNTING LOCATION OF EMERGENCY TELEPHONE DATA DROP LOCATION WITH OWNER PRIOR TO ROUGH-IN. ADD EC TO ROUTE DATA CABLE BACK TO LOCATION REFERRED TO IN NOTE E38
E15	PROVIDE GFI-PROTECTED OUTLETS ON A DEDICATED CIRCUIT FOR USE WITH THE POOL VACUUM. THE VACUUM POWER REQUIREMENT IS 1 HP, 20 A, 120 V. OUTLETS ALONG WALL SHALL BE SPACED NO MORE THAN 100' APART AND LABELED "POOL VACUUM".
E18	COORDINATE WITH GYM EQUIPMENT PROVIDER FOR RAISE-LOWER HOOP WINCH SWITCH TO ROUGH-IN ELECTRICAL CONNECTION BETWEEN SWITCH AND WINCH. REFER TO MANUFACTURERS WIRING DIAGRAM FOR ADDITIONAL INFORMATION. SEE ELECTRICAL NOTE 18 FOR APPROXIMATE LOCATION OF HOOP WINCH. RE-USE (1) EXISTING RAISE-LOWER SWITCH FOR RELOCATED BASKETBALL HOOP.
E19	MOUNTING HEIGHT SHOWN FOR JUNCTION BOX IS FROM GYMNASIUM FLOOR. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION OF WINCH WITH BASKETBALL HOOP SUPPLIER DURING CONSTRUCTION. REFER TO NOTE 18 FOR LOCATION OF ASSOCIATED DISCONNECT SWITCH AND RAISE-LOWER SELECTOR SWITCH.
E21	COORDINATE FINAL ROUGH-IN LOCATION FOR HAND DRYER WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
E22	PROVIDE FIRE RATED SLEEVE FOR ALL EQUIPMENT BEING SERVED IN THIS SPACE FROM NEW RENOVATION SYSTEMS.
E23	RE-INSTALL EXISTING FIRE ALARM DEVICES IN THIS SPACE.
E24	EC TO PROVIDE CONDUIT AND WIRING FOR LOW VOLTAGE ROUGH-INS FOR POOL EQUIPMENT AS NEEDED BASED ON POOL CONTRACTOR DIRECTION. CONSULT DRAWING PL511 FOR ADDITIONAL WIRING INSTALLATION DETAILS.
E27	MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL DUCT SMOKE DETECTOR AT THIS APPROXIMATE LOCATION. FIRE ALARM CONTRACTOR TO INSTALL WIRING AS NEEDED TO INTEGRATE DEVICE INTO FIRE ALARM SYSTEM.
E29	PROVIDE EMERGENCY STOP BUTTON FOR POOL BOILERS AT THIS LOCATION. COORDINATE WITH POOL CONSULTANT FOR FINAL WIRING AND INSTALLATION DETAILS. FOR EMERGENCY STOP BUTTON IN POOL, ENSURE PUSH BUTTON ASSEMBLY IS NEMA 4R RATED.
E30	EC TO PROVIDE NEMA 4 NON-FUSED DISCONNECTS FOR ALTERNATE EQUIPMENT (HHP, WHP, HWA). MOUNT DISCONNECTS TO UNISTRUT PIPE RACK.
E31	EC TO PROVIDE RAYCHEM HEAT TRACE CONTROLLER (C910-485) WITH SELF-REG HEATING CABLE (3XLE2-CR), POWER CONNECTION END SEAL (RAYCLIC-SB-04), AMBIENT SENSOR (RTD-200), GLASS TAPE (GT-66), AND ELECTRIC-TRACED LABEL (ETL) OR EQUIVALENT. COORDINATE WITH RELEVENT CONTRACTOR WHOSE EQUIPMENT IS BEING SERVED WITH THIS EQUIPMENT (PLUMBING CONTRACTOR, POOL CONSULTANT, AND HVAC CONTRACTOR). THIS PIECE OF EQUIPMENT IS ASSOCIATED WITH ALTERNATE M-01. EC TO PROVIDE PRICING TO REMOVE THIS PIECE OF EQUIPMENT FROM PROJECT SCOPE. HTC1 AND ITS ASSOCIATED COMPONENTS ARE PART OF ALTERNATE P-01. HTC2 AND ITS ASSOCIATED COMPONENTS ARE PART OF POOL ALTERNATE-02. EC TO PROVIDE SEPARATE PRICING TO INCLUDE WORK ASSOCIATED WITH INSTALLING THESE PIECES OF EQUIPMENT.
E33	ALL CONDUIT, HANGARS, AND DEVICES IN THIS SPACE TO BE CORROSION RESISTANT.
E35	EC TO PROVIDE STARTER/DISCONNECT FOR P-1.THIS PIECE OF EQUIPMENT IS ASSOCIATED WITH ALTERNATE M-01. EC TO PROVIDE PRICING TO REMOVE THIS PIECE OF EQUIPMENT FROM PROJECT SCOPE.
E36	ALL WHP AND HHP UNITS ARE ASSOCIATED WITH ALTERNATE P-01. EC TO PROVIDE PRICING TO INCLUDE WORK ASSOCIATED WITH INSTALLING THESE PIECES OF EQUIPMENT.
E37	H2A, H3A, AND H4A CONNECTIONS ARE ASSOCIATED WITH ALTERNATE PL02. EC TO PROVIDE PRICING TO INCLUDE WORK ASSOCIATED WITH INSTALLING THESE PIECES OF EQUIPMENT.
E38	COORDINATE WITH OWNER FOR FINAL LOCATION OF OUTLET FOR EMERGENCY POOL PHONE BATTERY UNIT RECEPTACLE. EMERGENCY POOL PHONE DATA CABLE TO BE RUN TO THIS LOCATION FROM LOCATION REFERRED TO IN E14.

FIRST FLOOR EXPANSION - POWER PLAN

1 / E201P — SCALE: 1/8" = 1'-0"

0 4' 8' 16'

0 1/8" = 1'-0" 2"

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4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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FIRST FLOOR EXPANSION - POWER PLAN

Project Number: 20250550

Sheet Number
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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	REAL POWER	LAMP	MOUNTING	NOTES
A1	2X2 LED FIXTURE	Focal Point	FZR-22-FL-3000L-40K-1C-UNV-LD1-G-WH	277 V	30 VA	LED	RECESSED	
A2	4" RECESSED LINEAR LED FIXTURE - ASYM	LITHONIA	FSM4L AS 625LF 940K UNV LD1 XX	277 V	21 VA	LED	RECESSED	PURCHASE FIXTURE LENGTH BASED ON DRAWING
A3	4" RECESSED LINEAR LED FIXTURE- BATHROOM SINK	LITHONIA	FSM4PR ALH FL0 625LF 940K UNV LD1 TF WH XX	277 V	17 VA	LED	RECESSED	PURCHASE FIXTURE LENGTH BASED ON DRAWING
C2	LED 4" ROUND RECESSED DOWNLIGHT	FOCAL POINT	FLC4D R0 SW 2000L UNV LD1 IC T LC4 RO 2000L 940K DN WFL CD WH NP	277 V	37 VA	LED	RECESSED	FIELD SET COLOR TEMPERATURE TO 3500K AND LUMEN OUTPUT TO 1200 LUMENS.
C3	LED 4" ROUND RECESSED DOWNLIGHT - WALLWASH	FOCAL POINT	FLC4W R0 SW 1000L UNV LD1 IC LC4 RO 1000L 940K WW CD WH NP	277 V	17 VA	LED	RECESSED	FIELD SET COLOR TEMPERATURE TO 3500K AND LUMEN OUTPUT TO 1200 LUMENS.
C4	4" SQUARE DOWNLIGHT	Acuity Brands Lighting	2LEDDRIVER G2 10LM MVOLT ZT / 2LEDTRIM G2 SQADJ 40K 80CRI NFL WH	277 V	12 VA	LED	RECESSED	
L1	SUSPENDED LINEAR LED - SEATING AREA	AXIS	TB4DILED 40D/1000 80 40 SO SO 4 WH UNV DP 1	277 V	34 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
L2	SUSPENDED LINEAR LED - UTILITY FIXTURE	Lithonia	ZL1N L48 3000L FST 277 40K 80CRI ZACVH M100	277 V	34 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
L3	VAPORTIGHT LED FIXTURE	LITHONIA	CSVT L48 3000LM MVOLT 40K 80CRI MHCH36SS	277 V	34 VA	LED	SUSPENDED	CTA LED
P1	6" CYL	Acuity Brands Lighting	LDN6CYL 40/30 L06AR LD 277V GZ10 ACC DWHG	277 V	39 VA	LED	SUSPENDED	
P2	12" Eau Pendant	OCL	EAU-P1CB-W-12-WG-MWP-LED3 940K UNV 48 DM1	277 V	29 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
P3	14" Eau Pendant	OCL	EAU-P1CB-W-14-WG-MWP-LED3 940K UNV 48 DM1	277 V	29 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
P4	16" Eau Pendant	OCL	EAU-P1CB-W-16-WG-MWP-LED3 940K UNV 48 DM1	277 V	29 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
P5	24" LED DECORATIVE PENDANT - STYLE A	MUUTO	OPEN - 23.5	120 V	17 VA	LED	SUSPENDED	PROVIDE E26 19W 4000K LED BULBS
P6	15" LED DECORATIVE PENDANT	LUMENS	MOOOI 21	120 V	23 VA	LED	SUSPENDED	ADJUST POWER CORD DROP LENGTH TO MOUNT FIXTURE AT HEIGHT SHOWN ON PLANS
R	LED SQUARE HIGHBAY	Lithonia	CPHB 18000LM SEF GCL WD 277 GZ10 40K 80CRI DWH	277 V	148 VA	LED	SUSPENDED	
R2	LED ROUND HIGHBAY - STORAGE	Lithonia	CPHB 18000LM SEF GCL WD 277 GZ10 40K 80CRI DWH	277 V	148 VA	LED	SUSPENDED	
S1	30' PARKING LOT LIGHT POLE - TYPE FRWD THROW - GLARE SHIELDS	LITHONIA	DSX1 LED P13 40K 80CRI TFTM MVOLT NLTAIR2 PIRHN HS	277 V	94 VA	LED	POLE	FOR NEW POLES PROVIDE 25'-0" TAPERED BRONZE POLE WITH 2' CONCRETE BASE. FOR NEW FIXTURE HEAR ON EXISTING POLE VERIFY PROPER MOUNTING HARDWARE PRIOR TO PURCHASE
S2	30' PARKING LOT LIGHT POLE - TYPE T4M - GLARE SHIELDS	LITHONIA	DSX1 LED P13 40K 80CRI T4M MVOLT NLTAIR2 PIRHN HS	277 V	94 VA	LED	POLE	FOR NEW FIXTURE HEAR ON EXISTING POLE VERIFY PROPER MOUNTING HARDWARE PRIOR TO PURCHASE.
S4	30' PARKING LOT LIGHT POLE - TYPE POST TOP - GLARE SHIELDS	US ARCH LTG	LUMPT PLED VSQ W 80LED 525MA 40K	277 V	94 VA	LED	POLE	ARRANGE GLARE SHIELD TO BLOCK GLARE FROM WEST. FOR NEW FIXTURE HEAR ON EXISTING POLE VERIFY PROPER MOUNTING HARDWARE PRIOR TO PURCHASE.
W1	INDIRECT POOL LIGHTING	KENALL	IN9 -30-WM-MW-260L-40K8-DIM5-DV-ALSL	277 V	260 VA	LED	WALL	ADJUST ANGLE OF FIXTURE WITH OWNER
W2	MULLION MOUNTED DOOR FIXTURE	AXIS	EX2WD 700 80 40 SO 4 AP UNV DP 1 HMD	277 V	29 VA	LED	MULLION	
W3	EXTERIOR WALL SCONCE	WAC LIGHTING	WPX2 LED 40K MVOLT DDBXD	277 V	47 VA	LED	WALL	
X1	EXIT LIGHT	LITHONIA	LRP W 1 GW	277 V	5 VA	LED (INCLUDED)	WALL	ORDER FIXTURES WITH ARROWS AND # OF FACES AS DEPICTED ON DRAWINGS. PROVIDE WHITE COLORED WIRE CAGES FOR EXIT LIGHTS IN GYM
X2	EXIT LIGHT	LITHONIA	LRP W 1 GW	277 V	5 VA	LED (INCLUDED)	CEILING	ORDER FIXTURES WITH ARROWS AND # OF FACES AS DEPICTED ON DRAWINGS

LIGHTING CONTROL DEVICE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
D	WALL MOUNTED DIMMER SWITCH	nLight	NPODMA DX WH	
DS1	CEILING MOUNT LOW VOLTAGE PHOTOCONTROL W/AUTO DIMMING	nLight	NCM ADCX RJB	
K	WALL MOUNTED AESTHETIC WALLPOD	nLight	NPODMA WH LT	
OC1	CEILING MOUNT LOW VOLTAGE OCCUPANCY SENSOR - SMALL MOTION	nLight	NCM PDT 9 AR RJB	
OC2	CEILING MOUNT LOW VOLTAGE OCCUPANCY SENSOR - LARGE MOTION	nLight	NCM PDT 10 AR RJB	
OC3	LOW VOLTAGE CEILING MOUNT SENSOR - HIGH BAY - 360 LENS	nLight	NCM 6 RJB	
OS	WALL MOUNTED VACANCY SENSOR SWITCH - DIMMING	nLight	SEE SHEET E707	
OS1	WALL MOUNTED OCCUPANCY SENSOR SWITCH	nLight	WSXA PDT WH	
OS2	WALL MOUNTED LOW VOLTAGE NLIGHT WIRED OCCUPANCY SENSOR SWITCH	nLight	WSXA SA WH	
S	WALL MOUNTED SINGLE POLE SWITCH	nLight	NPODMA XX	
T	WALL MOUNTED PRESET TIMER SWITCH	nLight	PTSA 60 WH	
TS	WALL MOUNTED TOUCH SCREEN CONTROLLER	nLight	NTS 7IN WH	
VS	WALL MOUNTED VACANCY SENSOR SWITCH	nLight	WSXA SA WH	
VSD	WALL MOUNTED VACANCY SENSOR SWITCH - DIMMING	nLight	WSXA PDT D ASL XX	

1. ACUITY NLIGHT CONTROL SYSTEM IS THE BASIS OF DESIGN. ALTERNATES WILL NOT BE ACCEPTABLE.
2. EC TO PROVIDE POWER PACKS AS NECESSARY.
3. FOR CONTROLLED RECEPTACLE AND LIGHTING IN OFFICES AND BREAKROOM REFER TO DETAIL 2/E701 AND PROVIDE (2) SEPERATE POWER PACKS (1) 120V CONTROLLED RECEPTACLES AND (1) FOR 277V LIGHTING.
4. WIRE ALL SENSORS AHEAD OF ANY SWITCHES IN THE ROOM. ADJUST TIME AND LIGHT SENSITIVITY (PHOTOCELL) AS DIRECTED BY OWNER.
5. MOUNT CEILING OCCUPANCY SENSORS A MINIMUM OF 8' FROM HVAC AIR TERMINALS.
6. MULTIPLE SENSORS IN THE SAME ROOM TO BE WIRED IN PARALLEL, SO IF ANY SENSOR DETECTS OCCUPANCY THE LIGHTS WILL STAY ON.
7. FOR FIXTURES THAT ARE POWERED BY AN EMERGENCY CIRCUIT AND CONTROLLED BY THE LOCAL SWITCH, THE EC SHALL PROVIDE AN EMERGENCY RELAY THAT SENSES LOSS OF NORMAL POWER (SIMILAR TO UL924 DEVICE).

EMERGENCY POWER INVERTER SCHEDULE

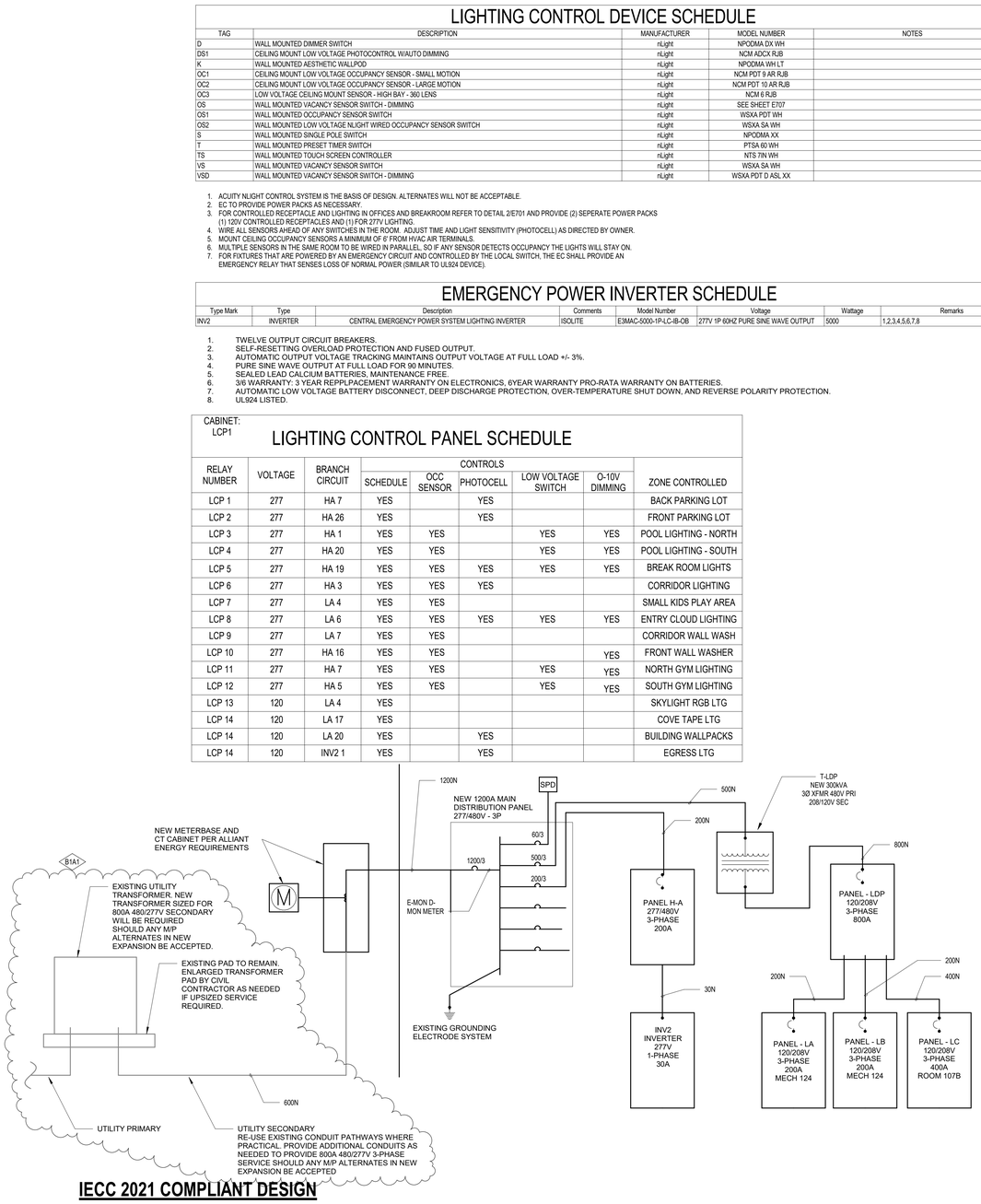
Type Mark	Type	Description	Comments	Model Number	Voltage	Wattage	Remarks
INV2	INVERTER	CENTRAL EMERGENCY POWER SYSTEM LIGHTING INVERTER	ISOLITE	E3MAC-5000-1P-LC-IB-OB	277V 1P 60HZ PURE SINE WAVE OUTPUT	5000	1,2,3,4,5,6,7,8

1. TWELVE OUTPUT CIRCUIT BREAKERS.
2. SELF-RESETTING OVERLOAD PROTECTION AND FUSED OUTPUT.
3. AUTOMATIC OUTPUT VOLTAGE TRACKING MAINTAINS OUTPUT VOLTAGE AT FULL LOAD +/- 3%.
4. PURE SINE WAVE OUTPUT AT FULL LOAD FOR 90 MINUTES.
5. SEALED LEAD CALCIUM BATTERIES, MAINTENANCE FREE.
6. 3/6 WARRANTY: 3 YEAR REPPLPACEMENT WARRANTY ON ELECTRONICS, 6YEAR WARRANTY PRO-RATA WARRANTY ON BATTERIES.
7. AUTOMATIC LOW VOLTAGE BATTERY DISCONNECT, DEEP DISCHARGE PROTECTION, OVER-TEMPERATURE SHUT DOWN, AND REVERSE POLARITY PROTECTION.
8. UL924 LISTED.

CABINET: LCP1

LIGHTING CONTROL PANEL SCHEDULE

RELAY NUMBER	VOLTAGE	BRANCH CIRCUIT	CONTROLS					ZONE CONTROLLED
			SCHEDULE	OCC SENSOR	PHOTOCELL	LOW VOLTAGE SWITCH	O-10V DIMMING	
LCP 1	277	HA 7	YES		YES			BACK PARKING LOT
LCP 2	277	HA 26	YES		YES			FRONT PARKING LOT
LCP 3	277	HA 1	YES	YES		YES	YES	POOL LIGHTING - NORTH
LCP 4	277	HA 20	YES	YES		YES	YES	POOL LIGHTING - SOUTH
LCP 5	277	HA 19	YES	YES	YES	YES	YES	BREAK ROOM LIGHTS
LCP 6	277	HA 3	YES	YES	YES			CORRIDOR LIGHTING
LCP 7	277	LA 4	YES	YES				SMALL KIDS PLAY AREA
LCP 8	277	LA 6	YES	YES	YES	YES	YES	ENTRY CLOUD LIGHTING
LCP 9	277	LA 7	YES	YES				CORRIDOR WALL WASH
LCP 10	277	HA 16	YES	YES			YES	FRONT WALL WASHER
LCP 11	277	HA 7	YES	YES		YES	YES	NORTH GYM LIGHTING
LCP 12	277	HA 5	YES	YES		YES	YES	SOUTH GYM LIGHTING
LCP 13	120	LA 4	YES					SKYLIGHT RGB LTG
LCP 14	120	LA 17	YES					COVE TAPE LTG
LCP 14	120	LA 20	YES		YES			BUILDING WALLPACKS
LCP 14	120	INV2 1	YES		YES			EGRESS LTG

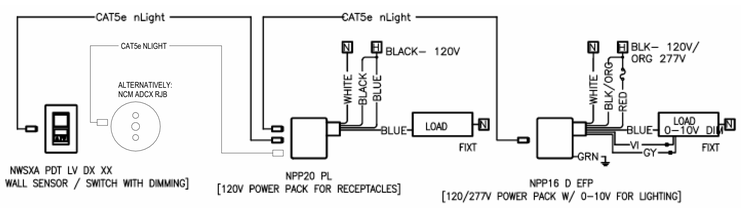


IECC 2021 COMPLIANT DESIGN

2 E701 **ONE-LINE DIAGRAM**
SCALE: 3/32" = 1'-0"

Electrical Fixture Schedule

Comments	CONNECTION NAME	CONNECTION DESCRIPTION	KW / HP / FLA	MOCP	VOLTS	PHASE	CONDUCTOR COUNT	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	DISC FURNI/INSTALLED BY	ALTERNATE #
<varies>							0					
AF1A	AF1A	AUTOFILL FLOWLINE	1.5 kW	20	115	1	2	12	12	1/2 IN		
C1A	C1A	AUTOFILL FLOWLINE	1.5 kW	20	115	1	2	12	12	1/2 IN		
CU-1	CU-1	AIR COOLED CONDENSING UNIT	7.0 kW	15	460	3	3	12	12	1/2 IN	MC/MC	
DOAS-1	DOAS-1	DOMESTIC OUTDOOR AIR SYSTEM	14.4 kW	25	460	3	3	10	10	3/4 IN	MC/MC	
EF-1	EF-1	EXHAUST FAN	1/6 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-2	EF-2	EXHAUST FAN	1/6 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-3	EF-3	EXHAUST FAN	1/6 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-4	EF-4	EXHAUST FAN	1/6 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-5	EF-5	EXHAUST FAN	1/15 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-6	EF-6	EXHAUST FAN	1/15 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-7	EF-7	EXHAUST FAN	3/4 HP	25	115	1	2	10	10	3/4 IN	MC/MC	
EF-8	EF-8	EXHAUST FAN	1/6 HP	20	115	1	2	12	12	1/2 IN	MC/MC	
EF-9	EF-9	EXHAUST FAN	.5 kW	25	115	1	2	12	12	3/4 IN	MC/MC	
EV1A	EV1A	MOTORIZED VALVES	FRAC	20	115	1	3	12	12	1 IN		
EWH-1	EWH-1	ELECTRICAL WALL HEATER	1.5 kW	20	115	1	2	12	12	1/2 IN	MC/MC	
EWH-2	EWH-2	ELECTRICAL WALL HEATER	4.8 kW	20	208	3	3	12	12	1/2 IN	MC/MC	
EWH-3	EWH-3	ELECTRICAL WALL HEATER	4.8 Kw	20	208	3	3	12	12	1/2 IN	MC/MC	
H1A	H1A	HEATER	1.5 kW	20	115	1	2	12	12	1/2 IN	EC/EC	
H2A	H2A	POOL HEAT PUMP	8.3 kW	50	208	1	3	6	10	1/2 IN	EC/EC	POOL-02
H3A	H3A	POOL HEAT PUMP	8.3 kW	50	208	1	3	6	10	1/2 IN	EC/EC	POOL-02
H4A	H4A	POOL HEAT PUMP	8.3 kW	50	208	1	3	6	10	1/2 IN	EC/EC	POOL-02
H-1	H-1	HUMIDIFIER	3.8 kW	25	208	3	3	12	12	1/2 IN	EC/EC	
HHP-1	HHP-1	PRIMARY PUMP	2.1 kW	20	208	1	3	12	12	1/2 IN	EC/EC	P-01
HHP-2	HHP-2	PRIMARY PUMP	2.1 kW	20	208	1	3	12	12	1/2 IN	EC/EC	P-01
HHP-3	HHP-3	PRIMARY PUMP	2.1 kW	20	208	1	3	12	12	1/2 IN	EC/EC	P-01
HTC1	HTC1	HEAT TRACE CONTROLLER	4.4 kW	30	208	1	3	10	10	1/2 IN	EC/EC	P-01
HTC2	HTC2	HEAT TRACE CONTROLLER	4.4 kW	30	208	1	3	10	10	1/2 IN	EC/EC	P-01
HTC3	HTC3	HEAT TRACE CONTROLLER	4.4 kW	30	208	1	3	6	10	1/2 IN	EC/EC	M-01
MAU-1	MAU-1	MAKEUP AIR UNIT	3.3 kW	15	460	3	3	12	12	1/2 IN	MC/MC	
P-1	P1	PUMP	1.5 HP	20	208	1	3	12	12	1 IN	EC/EC	M-01
P1A	P1A	POOL PUMP	15 HP	40	460	3	3	8	10	1 IN	PC/PC	
P2A	P2A	POOL PUMP	15 HP	40	460	3	3	8	10	1 IN	PC/PC	
PDU-1	PDU-1	DEHUMIDIFICATION UNIT	46 kW	80	460	3	3	3	8	1 IN	MC/MC	
RCP-1	RCP-1	RECIRC PUMP	FRAC	20	115	1	2	12	12	1/2 IN	EC/EC	
RCP-2	RCP-2	RECIRC PUMP	FRAC	20	115	1	2	12	12	1/2 IN	EC/EC	
RTU-1	RTU-1	ROOFTOP UNIT	19 kW	30	460	3	3	10	10	3/4 IN	MC/MC	
RTU-2	RTU-2	ROOFTOP UNIT	36 kW	60	460	3	3	6	10	1 IN	MC/MC	
RTU-3	RTU-3	ROOFTOP UNIT	48 kW	80	460	3	3	3	8	1 IN	MC/MC	
SP-1 CNTR.	SP-1 CNTR.	SUMP PUMP CONTROLLER	2.1 kW	20	208	1	3	12	12	1/2 IN	PC/PC	
UH-1	UH-1	UNIT HEATER	1/2 HP	15	115	1	2	12	12	1/2 IN	MC/MC	
UV1A	UV1A	ULTRA VIOLET DISINFECTION	2kW	30	208	1	3	10	10	1 IN	EC/EC	
V1A	V1A	POOL PUMP VFD	15 HP	50	460	3	3	8	10	1 IN	PC/PC	
VAV-1	VAV-1	FAN COIL UNIT	18.8 kW	60	208	3	3	12	12	1/2 IN	MC/MC	
VAV-2	VAV-2	FAN COIL UNIT	10 kW	35	460	3	3	10	10	3/4 IN	MC/MC	
VAV-3	VAV-3	FAN COIL UNIT	4 kW	25	460	3	3	12	10	1/2 IN	MC/MC	
VAV-4	VAV-4	FAN COIL UNIT	10 kW	15	277	3	3	12	12	1/2 IN	MC/MC	
VAV-5	VAV-5	FAN COIL UNIT	4 kW	15	460	3	3	12	12	1/2 IN	MC/MC	
VAV-6	VAV-6	FAN COIL UNIT	4 kW	15	460	3	3	12	12	1/2 IN	MC/MC	
VAV-7	VAV-7	FAN COIL UNIT	4 kW	15	460	3	3	12	12	1/2 IN	MC/MC	
WHP-1	WHP-1	WATER HEAT PUMP	22.3 kW	35	460	3	3	10	10	1/2 IN	EC/EC	P-01
WHP-2	WHP-2	WATER HEAT PUMP	22.3 kW	35	460	3	3	10	10	1/2 IN	EC/EC	P-01
WHP-3	WHP-3	WATER HEAT PUMP	22.3 kW	35	460	3	3	10	10	1/2 IN	EC/EC	P-01

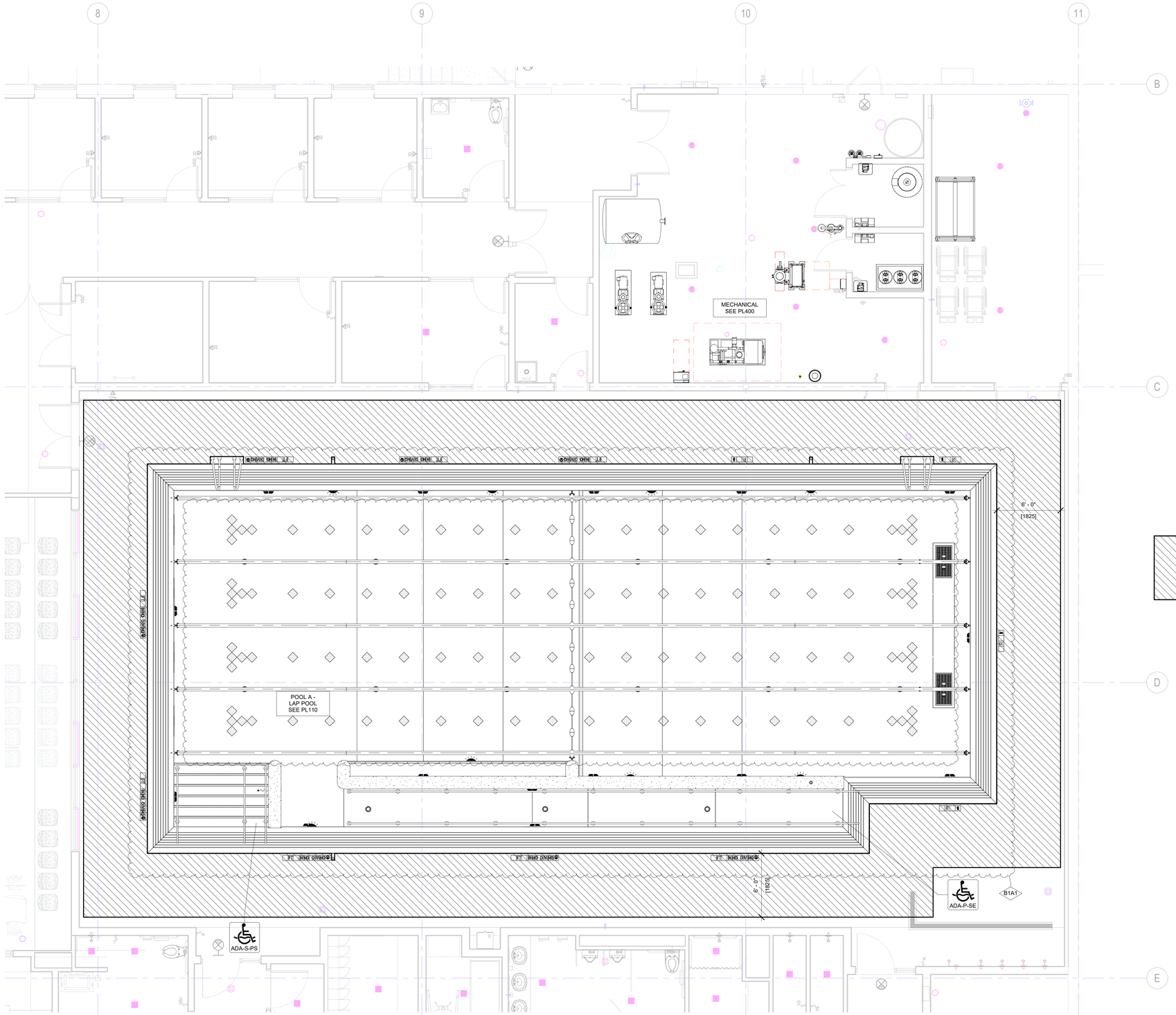


1. DETAIL SHOWN FOR REFERENCE ONLY.
2. ACUITY SHOWN AS BASIS OF DESIGN. EQUIVALENTS TO BE APPROVED BY ENGINEER.
3. LIGHTS TO BE AUTO ON TO 50% / AUTO OFF
4. RECEPTACLES TO BE AUTO ON / AUTO OFF

1 E701 **CONTROLLED RECEPTACLE DETAIL**
SCALE: 12" = 1'-0"

COPPER FEEDER SCHEDULE

FEEDER NUMBER	CONDUIT QTY & SIZE	PHASE COND QTY & SIZE	NEUTRAL COND QTY & SIZE	GND COND QTY & SIZE
3 PHASE WITH NEUTRAL				
3000N	8 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #4/0 MCM CU
2500N	7 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #350 MCM CU
2000N	6 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #250 MCM CU
1600N	5 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #4/0 AWG CU
1200N	4 @ 3"	3 #350 MCM CU	1 #350 MCM CU	1 #3/0 AWG CU
1000N	3 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #2/0 AWG CU
800N	2 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #1/0 AWG CU
600N	2 @ 3"	3 #350 MCM CU	1 #350 MCM CU	1 #1 AWG CU
500N	2 @ 2.5"	3 #250 MCM CU	1 #250 MCM CU	1 #2 AWG CU
400N	1 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #3 AWG CU
350N	1 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #3 AWG CU
300N	1 @ 3"	3 #350 MCM CU	1 #350 MCM CU	1 #4 AWG CU
250N	1 @ 2.5"	3 #250 MCM CU	1 #250 MCM CU	1 #4 AWG CU
225N	1 @ 2.5"	3 #4/0 AWG CU	1 #4/0 AWG CU	1 #4 AWG CU
200N	1 @ 2"	3 #3/0 AWG CU	1 #3/0 AWG CU	1 #6 AWG CU
175N	1 @ 2"	3 #2/0 AWG CU	1 #2/0 AWG CU	1 #6 AWG CU
150N	1 @ 2"	3 #1/0 AWG CU	1 #1/0 AWG CU	1 #5 AWG CU
125N	1 @ 1.5"	3 #1 AWG CU	1 #1 AWG CU	1 #6 AWG CU
110N	1 @ 1.25"	3 #2 AWG CU	1 #2 AWG CU	1 #6 AWG CU
100N	1 @ 1.25"	3 #3 AWG CU	1 #3 AWG CU	1 #6 AWG CU
90N	1 @ 1.25"	3 #3 AWG CU	1 #3 AWG CU	1 #8 AWG CU
80N	1 @ 1.25"	3 #4 AWG CU	1 #4 AWG CU	1 #8 AWG CU
70N	1 @ 1.25"	3 #4 AWG CU	1 #4 AWG CU	1 #8 AWG CU
60N	1 @ 1"	3 #6 AWG CU	1 #6 AWG CU	1 #10 AWG CU
50N	1 @ 0.75"	3 #8 AWG CU	1 #8 AWG CU	1 #10 AWG CU
40N	1 @ 0.75"	3 #8 AWG CU	1 #8 AWG CU	1 #10 AWG CU
30N	1 @ 0.5"	3 #10 AWG CU	1 #10 AWG CU	1 #10 AWG CU
3 PHASE NO NEUTRAL				
1600	5 @ 3"	3 #500 MCM CU	(NONE)	1 #4/0 AWG CU
1200	4 @ 2.5"	3 #350 MCM CU	(NONE)	1 #3/0 AWG CU
1000	3 @ 3"	3 #500 MCM CU	(NONE)	1 #2/0 AWG CU
800	2 @ 3"	3 #500 MCM CU	(NONE)	1 #1/0 AWG CU
700	2 @ 3"	3 #500 MCM CU	(NONE)	1 #1/0 AWG CU
600	2 @ 2.5"	3 #350 MCM CU	(NONE)	1 #1 AWG CU
500	2 @ 2.5"	3 #250 MCM CU	(NONE)	1 #2 AWG CU
450	2 @ 2"	3 #4/0 AWG CU	(NONE)	1 #2 AWG CU
400	1 @ 3"	3 #500 MCM CU	(NONE)	1 #3 AWG CU
350	1 @ 3"	3 #500 MCM CU	(NONE)	1 #3 AWG CU
300	1 @ 2.5"	3 #350 MCM CU	(NONE)	1 #4 AWG CU
250	1 @ 2"	3 #250 MCM CU	(NONE)	1 #4 AWG CU
225	1 @ 2"	3 #4/0 AWG CU	(NONE)	1 #4 AWG CU
200	1 @ 2"	3 #3/0 AWG CU	(NONE)	1 #5 AWG CU
175	1 @ 1.5"	3 #2/0 AWG CU	(NONE)	1 #6 AWG CU
150	1 @ 1.5"	3 #1/0 AWG CU	(NONE)	1 #6 AWG CU
125	1 @ 1.25"	3 #1 AWG CU	(NONE)	1 #6 AWG CU
110	1 @ 1.25"	3 #2 AWG CU	(NONE)	1 #5 AWG CU
100	1 @ 1.25"	3 #3 AWG CU	(NONE)	1 #8 AWG CU
90	1 @ 1.25"	3 #3 AWG CU	(NONE)	1 #8 AWG CU
80	1 @ 1"	3 #4 AWG CU	(NONE)	1 #8 AWG CU
70	1 @ 1"	3 #4 AWG CU	(NONE)	1 #8 AWG CU
60	1 @ 0.75"	3 #6 AWG CU	(NONE)	1 #10 AWG CU
50	1 @ 0.75"	3 #8 AWG CU	(NONE)	1 #10 AWG CU
40	1 @ 0.75"	3 #8 AWG CU	(NONE)	1 #10 AWG CU
30	1 @ 0.5"	3 #10 AWG CU	(NONE)	1 #10 AWG CU
SINGLE PHASE NO NEUTRAL				
150S	1 @ 1.25"	2 #1/0 AWG CU	(NONE)	1 #6 AWG CU
125S	1 @ 1.25"	2 #1 AWG CU	(NONE)	1 #6 AWG CU
110S	1 @ 1"	2 #2 AWG CU	(NONE)	1 #6 AWG CU
100S	1 @ 1"	2 #3 AWG CU	(NONE)	1 #8 AWG CU
90S	1 @ 1"	2 #3 AWG CU	(NONE)	1 #8 AWG CU
80S	1 @ 1"	2 #4 AWG CU	(NONE)	1 #8 AWG CU
70S	1 @ 1"	2 #4 AWG CU	(NONE)	1 #8 AWG CU
60S	1 @ 0.75"	2 #6 AWG CU	(NONE)	1 #10 AWG CU
50S	1 @ 0.5"	2 #8 AWG CU	(NONE)	1 #10 AWG CU
40S	1 @ 0.5"	2 #8 AWG CU	(NONE)	1 #10 AWG CU
30S	1 @ 0.5"	2 #10 AWG CU	(NONE)	1 #10 AWG CU
GROUNDING CONDUCTOR				
250G	1 @ 1"	(NONE)	(NONE)	1 #250 MCM CU
225G	1 @ 1"	(NONE)	(NONE)	1 #4/0 AWG CU
200G	1 @ 1"	(NONE)	(NONE)	1 #3/0 AWG CU
175G	1 @ 0.75"	(NONE)	(NONE)	1 #2/0 AWG CU
150G	1 @ 0.75"	(NONE)	(NONE)	1 #1/0 AWG CU
125G	1 @ 0.75"	(NONE)	(NONE)	1 #1 AWG CU
110G	1 @ 0.5"	(NONE)	(NONE)	1 #2 AWG CU
100G	1 @ 0.5"	(NONE)	(NONE)	1 #3 AWG CU
90G	1 @ 0.5"	(NONE)	(NONE)	1 #3 AWG CU
80G	1 @ 0.5"	(NONE)	(NONE)	1 #4 AWG CU
70G	1 @ 0.5"	(NONE)	(NONE)	1 #4 AWG CU
60G	1 @ 0.5"	(NONE)	(NONE)	1 #5 AWG CU
50G	1 @ 0.5"	(NONE)	(NONE)	1 #8 AWG CU
40G	1 @ 0.5"	(NONE)	(NONE)	1 #8 AWG CU
30G	1 @ 0.5"	(NONE)	(NONE)	1 #10 AWG CU
TRANSFORMER SECONDARY FEEDER				
1000T	3 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #3/0 AWG CU
800T	2 @ 3.5"	3 #600 MCM CU	1 #600 MCM CU	1 #3/0 AWG CU
700T	2 @ 3.5"	3 #500 MCM CU	1 #500 MCM CU	1 #2/0 AWG CU
600T	2 @ 3"	3 #350 MCM CU	1 #350 MCM CU	1 #2/0 AWG CU
500T	2 @ 2.5"	3 #250 MCM CU	1 #250 MCM CU	1 #2/0 AWG CU
400T	1 @ 3.5"	3 #600 MCM CU	1 #600 MCM CU	1 #1/0 AWG CU
250T	1 @ 3"	3 #250 MCM CU	1 #250 MCM CU	1 #2 AWG CU
225T	1 @ 2.5"	3 #4/0 AWG CU	1 #4/0 AWG CU	1 #2 AWG CU
150T	1 @ 2"	3 #1/0 AWG CU	1 #1/0 AWG CU	1 #6 AWG CU
110T	1 @ 1.5"	3 #2 AWG CU	1 #2 AWG CU	1 #8 AWG CU
60T	1 @ 1"	3 #6 AWG CU	1 #6 AWG CU	1 #8 AWG CU



1 OVERALL AQUATIC LAYOUT PLAN VIEW
PL100 1/4" = 1'-0"

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
PL100	OVERALL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - LAP POOL PLAN
PL111	POOL A - LAP POOL DIMENSION PLAN
PL112	POOL A - LAP POOL SECTIONS
PL113	POOL A - LAP POOL SECTIONS AND DETAILS
PL114	POOL A - LAP POOL DETAILS
PL115	POOL A - LAP POOL DETAILS - ALTERNATE
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL210	STRUCTURAL GENERAL DETAILS
PL211	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL EQUIPMENT SCHEDULES
PL402	MECHANICAL DETAILS
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL510	POOL A MECHANICAL SCHEMATIC
PL511	POOL A ELECTRICAL SCHEMATIC

GENERAL NOTES:
1. THIS FACILITY WILL BE COMMISSIONED BY A THIRD-PARTY COMMISSIONING AGENT. REFER TO SPECIFICATION SECTIONS 01 91 13 AND 13 08 00 FOR SPECIFIC REQUIREMENTS.
2. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
3. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
4. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
5. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
6. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
7. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
8. REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
9. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
10. REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
MADISON, WISCONSIN; DANE COUNTY

HEALTH & SAFETY CODES:
SPS CHAPTER 390 - DESIGN AND CONSTRUCTION OF PUBLIC SWIMMING POOLS AND WATER ATTRACTIONS
ATCP CHAPTER 76 - SAFETY, MAINTENANCE, AND OPERATION OF PUBLIC POOLS AND WATER ATTRACTIONS

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

BATHER CAPACITY

BATHER CAPACITY IS CALCULATED IN ACCORDANCE WITH SECTION 76.25 (2) (A) OF THE ADMINISTRATIVE CODE AS FOLLOWS:

1. POOL A:
   a. 1277 (SF) SHALLOW WATER / 15 (SF/BATHER) = 85 BATHERS.
   b. (985 (SF) DEEP WATER / 25 (SF/BATHER) = 39 BATHERS.
2. TOTAL 124 BATHERS

PER CHAPTER 390.13 DECK, OF THE CHAPTER SPS 390 DESIGN AND CONSTRUCTION OF PUBLIC SWIMMING POOLS AND WATER ATTRACTIONS AS FOLLOWS:

1. MINIMUM DECK.
(a) EXCEPT AS PERMITTED IN PARS. (b) TO (e), DECK SHALL EXTENT AROUND THE ENTIRE PERIMETER OF ALL BASINS WITHIN THE SAME ENCLOSURE.

2. DECK WIDTH.
(a) EXCEPT AS REQUIRED IN PARS. (b) TO (e), DECK SHALL EXTEND FOR AT LEAST 6 FEET FROM ALL BASINS.
(c) DECK SHALL EXTEND FOR AT LEAST 3 FEET AROUND DECK OBSTRUCTIONS AND EQUIPMENT.

3. DECK OBSTRUCTIONS.
(a) EXCEPT AS PERMITTED IN PAR. (c) DECK OBSTRUCTIONS INCLUDING ROOF SUPPORT COLUMNS, MAY BE NO MORE THAN 2 FEET IN FIAMETER AND OF CONTRASTING COLOR AS TO PROVIDE ADEQUATE CLEARANCE, SAFETY, VISIBILITY AND ACCESS WHERE A DEPARTMENT OF HEALTH SERVICES-APPROVED LIFEGUARD STAFFING PLAN IS NOT REQUIRED.
(b) DECK OBSTRUCTIONS SHALL EXTEND A MINIMUM OF 3 FEED ABOVE THE DECK SO AS NOT CREATE A TRIPPING HAZARD.
(c) DECK OBSTRUCTIONS MAY OCCUPY A MAXIMUM OF 10 PERCENT OF THE POOL PERIMETER FOR BASINS WHERE A LIFEGUARD STAFFING PLAN IS NOT REQUIRED.

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MSCR WEST RECREATION CENTER EXPANSION

7333 N TOWNE WAY
MADISON, WISCONSIN 53719

MADISON METROPOLITAN SCHOOL DISTRICT
4711 PFLAUM ROAD
MADISON, WISCONSIN 53718

ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

WTI
World Leaders in Aquatic Planning, Design and Engineering
100 Park Avenue | Beaver Dam, WI 53916
6200 North Beach Street, Suite 100 | Haltom City, TX 76137 | t 920.887.7375

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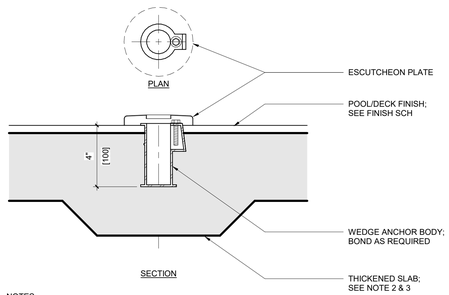
Sheet Title
OVERALL AQUATIC PLAN

Project Number: 24317

Sheet Number
PL100

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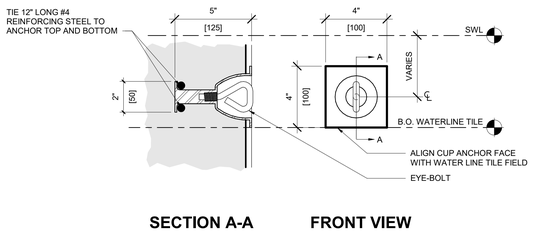
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NOTES:

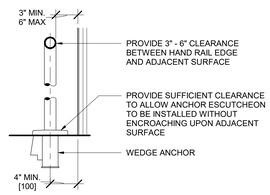
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MIN COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MIN.

6 | PL101 ANCHOR - WEDGE DETAIL VIEW
3" = 1'-0"



SECTION A-A **FRONT VIEW**

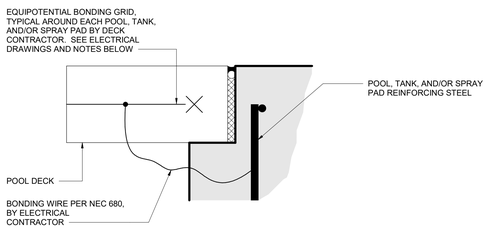
7 | PL101 ANCHOR - ROPE CUP DETAIL VIEW
3" = 1'-0"



NOTES:

1. CONTRACTOR TO PURCHASE AND INSTALL RAIL GOODS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS OF PARTIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY HANDRAIL DIMENSIONS PRIOR TO FABRICATION.

8 | PL101 RAILING OFFSET TO ADJACENT SURFACE DETAIL VIEW
3/4" = 1'-0"



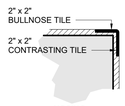
NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

9 | PL101 POOL EQUIPOTENTIAL BONDING GRID DETAIL VIEW
NOT TO SCALE

LEGEND - FINISHES & COLOR CODES - POOL A

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
BENCH AND STAIR NOSING - CONSTRASTING	SR2	2"x2" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
CONTRASTING TILE BAND	SR1	1"x1" SLIP RESISTANT TILE	C01	SEE ARCHITECTURAL FINISH SCHEDULE	
DEPTH MARKERS - DECK	SR3	6"x6" SLIP RESISTANT TILE	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SR3	6"x6" SLIP RESISTANT TILE	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	
HORIZONTAL SURFACE (WET)	SR1	1"x1" SLIP RESISTANT TILE	C06	LIGHT COLOR	ALTERNATE #PL01: PROVIDE TILE IN LIEU OF QUARTZ AGGREGATE — B1A1
INTERMEDIATE STEGMEIER EDGE	LB	LIGHT BROOM	C01	SEE ARCHITECTURAL FINISH SCHEDULE	
LANE MARKERS - FLOOR	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
LANE MARKERS - WALL	SR1	1"x1" SLIP RESISTANT TILE	C07	CONTRASTING TO POOL FINISH	
POOL FINISH	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	
RIMFLOW STONE GRATING	ST	RIMFLOW STONE GRATING	C01	SEE ARCHITECTURAL FINISH SCHEDULE	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	SEE ARCHITECTURAL FINISH SCHEDULE	
VERTICAL SURFACE (WET)	KT1	1"x1" KEYSTONE TILE	C06	LIGHT COLOR	ALTERNATE #PL01: PROVIDE TILE IN LIEU OF QUARTZ AGGREGATE — B1A1
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C06	LIGHT COLOR	

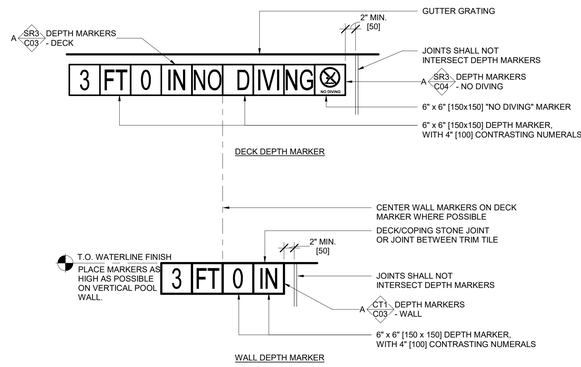


NOSING

NOTES:
1. NOSING: 2" MIN. CONTRASTING TILE BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.

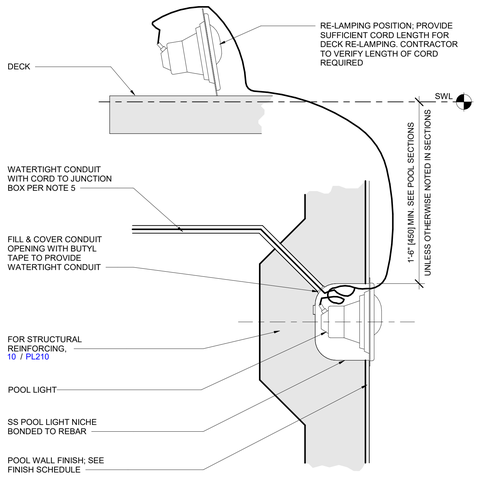
FINISH NOTES:
1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE. CONTRASTING COLORS SHALL HAVE A MUNSELL VALUE OF 0 TO 4.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 AND ANSI A326.3 STANDARD USING THE ANSI A326.3 DYNAMIC COEFFICIENT OF FRICTION (DCOF) TESTING METHOD:
   3A. ON WET LEVEL SURFACES (<=2%), PROVIDE A WET DCOF =/> 0.42.
   3B. ON WET SLOPED SURFACES (>2%), PROVIDE A WET DCOF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.

3 | PL101 POOL FINISH SCHEDULE DETAIL VIEW
NONE



NOTES:
1. - WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. DEPTH MARKER SHALL BE LOCATED WITHIN 18" OF THE WATER'S EDGE.

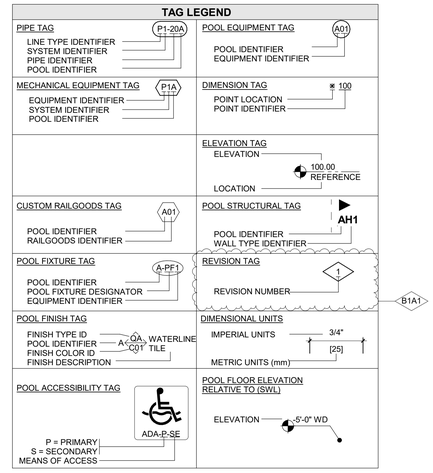
4 | PL101 FINISH - DEPTH MARKER DECK & WALL DETAIL VIEW
1" = 1'-0"



NOTES:
1. - POOL LIGHTS AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. SEE ELECTRICAL DRAWINGS FOR JUNCTION BOX LOCATIONS.
3. SEE SECTIONS FOR REQUIRED DIMENSIONS TO LIGHTS.
4. LIGHT LOCATIONS SHALL PROVIDE A MIN 3" [75] CONCRETE COVER AT JOINT LOCATIONS AND BE POSITIONED TO PROVIDE ADEQUATE CLEARANCE FROM JOINT WATERSTOP.
5. LIGHT NICHE FURNISHED BY POOL CONTRACTOR. LIGHT NICHE IS GROUNDED/BONDED BY ELECTRICAL CONTRACTOR.
6. LIGHT FIXTURES WITH CORD AND CONDUIT ATTACHED ARE FURNISHED AS SPECIFIED BY THE POOL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL OTHER ELECTRICAL MATERIALS (WATERTIGHT CONDUIT, JUNCTION BOXES, SWITCHES, ETC) ARE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER NEC CODE ARTICLE 680. POOL LIGHTS SHALL BE GFI PROTECTED PER NEC ARTICLE 680.

5 | PL101 POOL LIGHT - FLUSH MOUNT DETAIL VIEW
1 1/2" = 1'-0"

TAG LEGEND



EQUIPMENT IDENTIFIER KEY

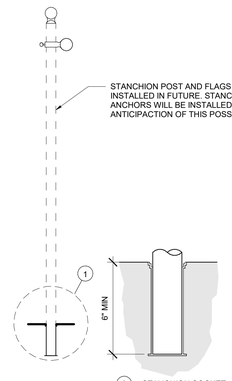
AC	- AIR COMPRESSOR	FP	- FLOW METER POWER SUPPLY
AF	- AUTOFILL	H	- HEATER
AOP	- ADVANCED OXIDATION PROCESS	HX	- HEAT EXCHANGER
AP	- pH CONTROL PUMP	P	- PUMP
AS	- pH CONTROL STORAGE	PV	- PNEUMATIC MAIN DRAIN VALVE
BP	- BOOSTER PUMP	S	- STRAINER
C	- CHEMICAL CONTROLLER	SC	- CONTAINMENT PALLETE
CP	- CHLORINE FEED PUMP	SV	- SURGE TANK FAN
CS	- CHLORINE STORAGE	UV	- ULTRA-VIOLET DISINFECTION
EV	- ELECTRONIC MAIN DRAIN VALVE	V	- VARIABLE FREQUENCY DRIVE
F	- FILTER	WC	- WATER CHILLER
FM	- FLOW METER		

ABBREVIATIONS

AHJ	- AUTHORITY HAVING JURISDICTION	P&ID	- PIPING & INSTRUMENTATION DIAGRAM
BO	- BOTTOM OF	PL	- POOL LIFT
CJ	- CONTROL JOINT	PS	- POOL STAIRS
DIA	- DIAMETER	SCH	- SCHEDULE
EJ	- EXPANSION JOINT	SE	- SLOPED ENTRY
EW	- EACH WAY	SS	- STAINLESS STEEL
FFE	- FINISH FLOOR ELEVATION	SWL	- STATIC WATER LEVEL
ID	- INSIDE DIAMETER	TO	- TOP OF
MAX	- MAXIMUM	TS	- TRANSFER SYSTEM
MIN	- MINIMUM	TUBC	- TRUE UNION CHECK VALVE
NC	- NORMALLY CLOSED	TUBV	- TRUE UNION BALL VALVE
NO	- NORMALLY OPEN	TW	- TRANSFER WALL
NPS	- NOMINAL PIPE SIZE	TYP	- TYPICAL
OC	- ON CENTER	WD	- WATER DEPTH
OD	- OUTSIDE DIAMETER		
OWE	- OPERATING WATER ELEVATION		

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT

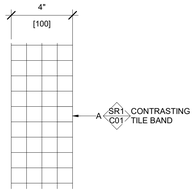
QTY	PRODUCT NAME	MANUFACTURER	NOTES
1	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS ULTRAMAX GEMINI	DOLPHIN WAVE 140 AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, FINE FILTER KIT WITH TOP ACCESS, SIX (6) ACTIVE BRUSHES, SUCTION RATE: 9,000 GPH, 140 FT CORD, 3 YEAR WARRANTY
1	DEFIBRILLATOR	WATER SAFETY PRODUCTS	ZOLL AED PLUS DEFIBRILLATOR COMPLETE AED PACKAGE WITH CPR-D PADZ ELECTRODES, CPR HELP TECHNOLOGY WITH REAL-TIME DEPTH AND RATE CPR FEEDBACK, LITHIUM 123 BATTERIES WITH 5 YEAR SHELF LIFE, CARRYING CASE AND AED PRESCRIPTION
1	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	LIFE HOOK & RESCUE POLE	RECREONICS	FIBERGLASS POLE, WITH DOUBLE LIFE HOOK. PROVIDE 16-FOOT NON-TELESCOPING SECTIONS WITH & RUBBER END CAP. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	MANUAL VACUUM CLEANING SYSTEM	HAMMERHEAD	RESORT-21; (RESORT-30): 21"(30") VACUUM HEAD WITH (2) LARGE CAPACITY BAGS, 60 FOOT CORD, STAINLESS STEEL POLE SWIVEL MOUNT AND WELDED ALUMINUM CADDY W/ 20" WHEELS. PROVIDE WITH 12V DEEP CYCLE MARINE BATTERY, BATTERY CHARGER, AND 1 1/8" STANDARD POOL POLE.
2	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP. CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE.
1	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
1	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT
1	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT



1 STANCHION SOCKET

NOTES:
1. ONE SOCKET IS REQUIRED FOR ANCHORAGE OF EACH STANCHION.
2. SOCKET IS SS AND SHALL BE FURNISHED WITH SLIP-FIT CLOSURE CAP.
3. PROVIDE KEY FOR EACH CAP.

2 | PL101 STANCHION DETAIL VIEW
NONE



NOTES:
1. 4" CONTRASTING TILE BAND @ 5'-0" WD CONTINUOUS ON POOL FLOOR AND WALLS; COLOR CONTRASTING TO POOL FINISH.

1 | PL101 CONTRASTING TILE BAND DETAIL VIEW
3" = 1'-0"

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ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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Sheet Title
GENERAL DETAILS AND SCHEDULES

Project Number: 24317

Sheet Number
PL101

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SCHEDULE - CUSTOM RAILGOODS - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	HAND RAIL	3	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	02	RAMP HAND RAIL	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

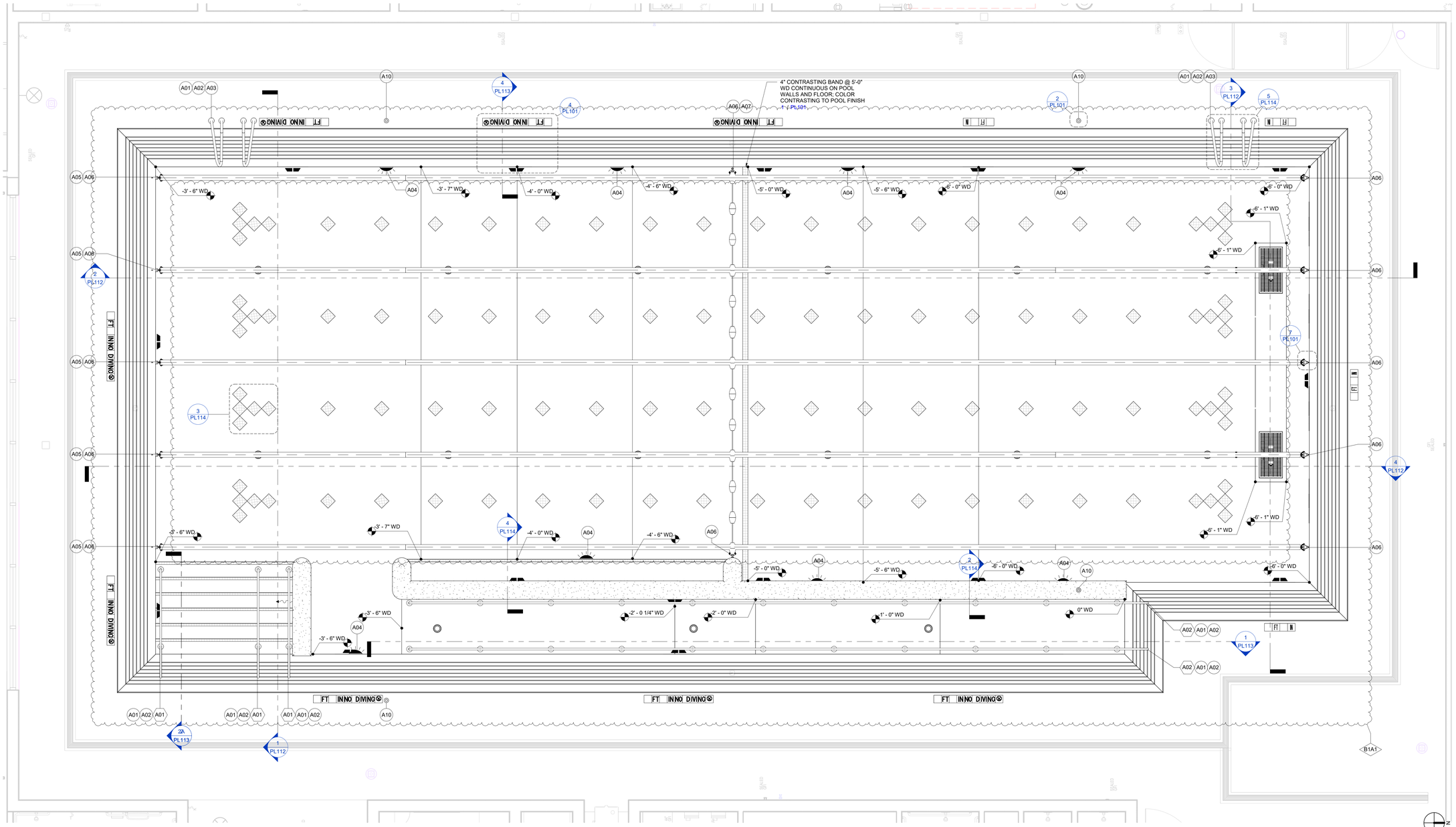
SCHEDULE - BASIS OF DESIGN - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	ESCUTCHEON PLATE	36	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
A	02	WEDGE ANCHOR	36	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
A	03	GRAB RAILS	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	PRETZEL BEND STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	04	LIGHT & NICHE	8	PENTAIR	INTELLIBRITE, WHITE LED POOL LIGHT, 300W EQUIVALENCY, 120V, WITH SS FACE RING, PROVIDE COMPLETE WITH PENTAIR POOL PRODUCTS LARGE SS NICHES WITH 1" REAR HUB.
A	05	LANE DIVIDERS	5	COMPETITOR SWIM PRODUCTS	4" WAVE QUELLING RACING LANE LINE, COLORS BY OWNER / ARCHITECT
A	06	CUP ANCHOR	12	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	4" SQUARE 304L SS ANCHOR AND 304L SS EYE BOLT
A	07	SAFETY ROPE	1	PARAGON AQUATICS	3/4" POLYETHYLENE ROPE WITH 5"x9" HANDI-LOCK FLOAT, VERIFY LENGTH WITH PLANS
A	08	IN-WALL STEPS	7	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	17-1/2" x 6", INJECTION MOLDED PLASTIC, PEBBLE TEXTURE, 1/4" WALL THICKNESS
A	10	STANCHION ANCHOR	4	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL STANCHION ANCHOR FOR 1.90" O.D. RAIL WITH SLIP FIT ANCHOR CAP AND CAP REMOVAL TOOL
A	12	LANE LINE STORAGE REEL	1	PARAGON AQUATICS,SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	STANDARD CAPACITY, SS CONSTRUCTION, WITH SS CASTERS AND COVER

POOL A-LAP POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	213'-4"	FEET
WATER SURFACE AREA	2,263	SQUARE FEET
POOL WATER TEMPERATURE	86-90	°F
POOL VOLUME	76,227	GALLONS
GUTTER OPERATING VOLUME	9,190	GALLONS
TOTAL VOLUME OF WATER	85,417	GALLONS
CIRCULATION RATE	475	GPM
TURNOVER/VOLUME/FLOW	180 MIN.	
NSF 50 FILTRATION RATE	12.06	GPM/FT²
BACKWASH FLOW	297	GPM
SURGE FACTOR	2.90	GAL/SQFT
AVAILABLE SURGE CAPACITY IN GUTTER	6564	GALLONS

AVAILABLE SURGE CAPACITY CALCULATION IS BASED ON FULL LENGTH GUTTER DEPTH. CONTRACTOR HAS OPTION TO CHANGE THE GUTTER PROFILE TO FOLLOW FLOOR SLOPE. REFER PL113 FOR MORE INFORMATION.



1 POOL A - LAP POOL PLAN VIEW
PL110 3/8" = 1'-0"

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Sheet Title
POOL A - LAP POOL PLAN

Project Number: 24317

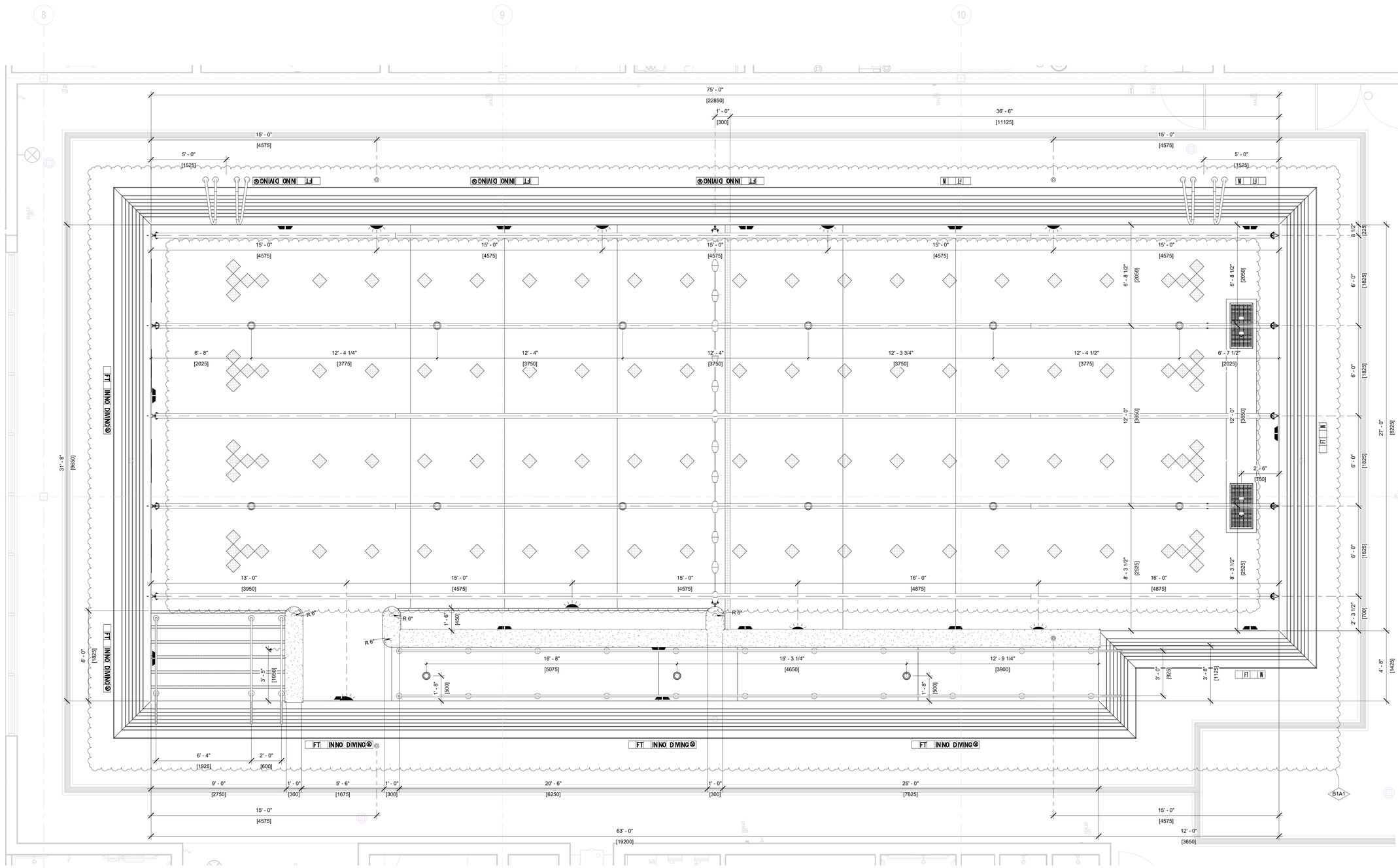
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PL110

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DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)



1 POL111 POOL A - LAP POOL DIMENSIONS PLAN VIEW
3/8" = 1'-0"

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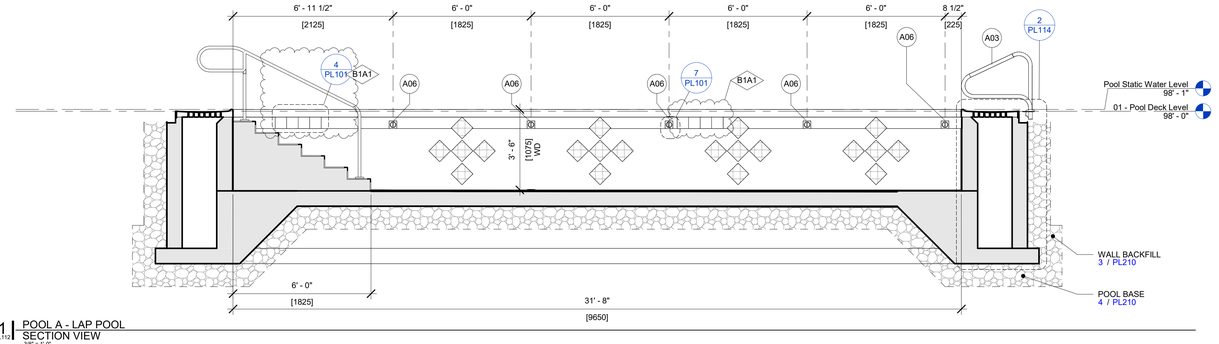
Sheet Title
POOL A - LAP POOL DIMENSION PLAN

Project Number: 24317

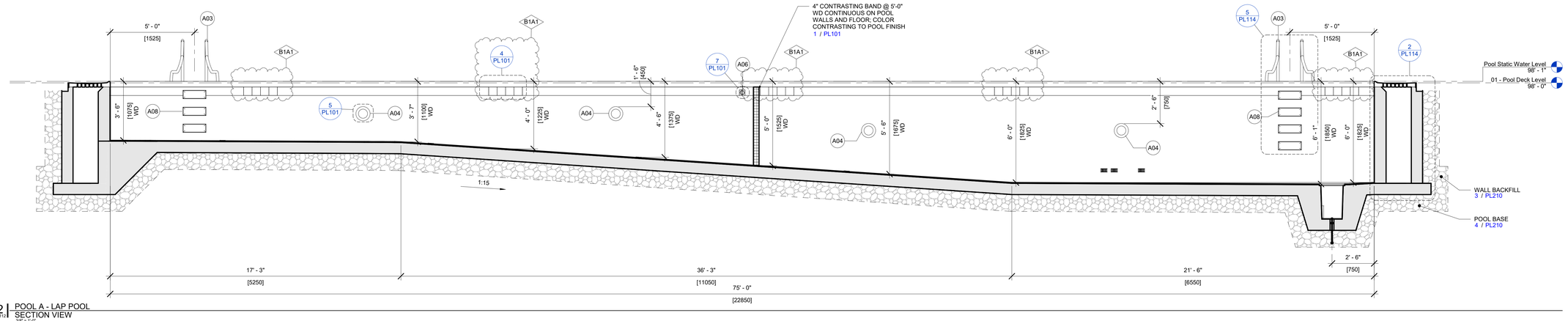
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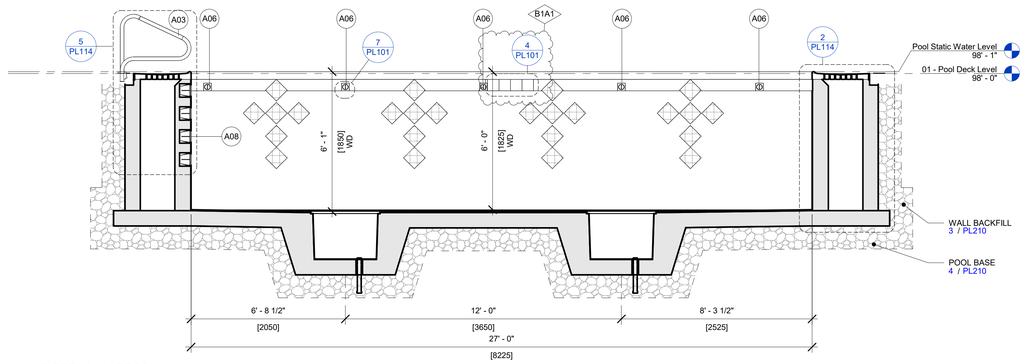
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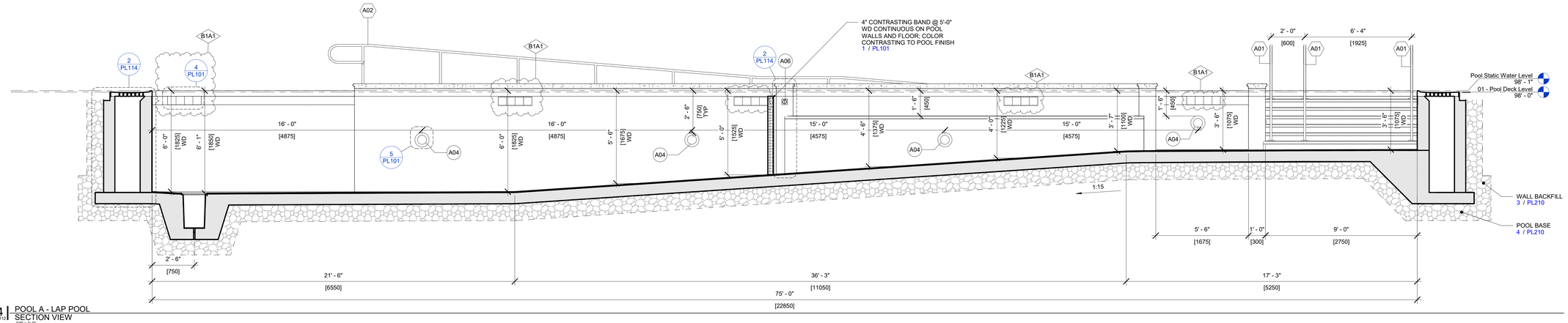
1 | POOL A - LAP POOL SECTION VIEW
PL112 3/8" = 1'-0"



2 | POOL A - LAP POOL SECTION VIEW
PL112 3/8" = 1'-0"



3 | POOL A - LAP POOL SECTION VIEW
PL112 3/8" = 1'-0"



4 | POOL A - LAP POOL SECTION VIEW
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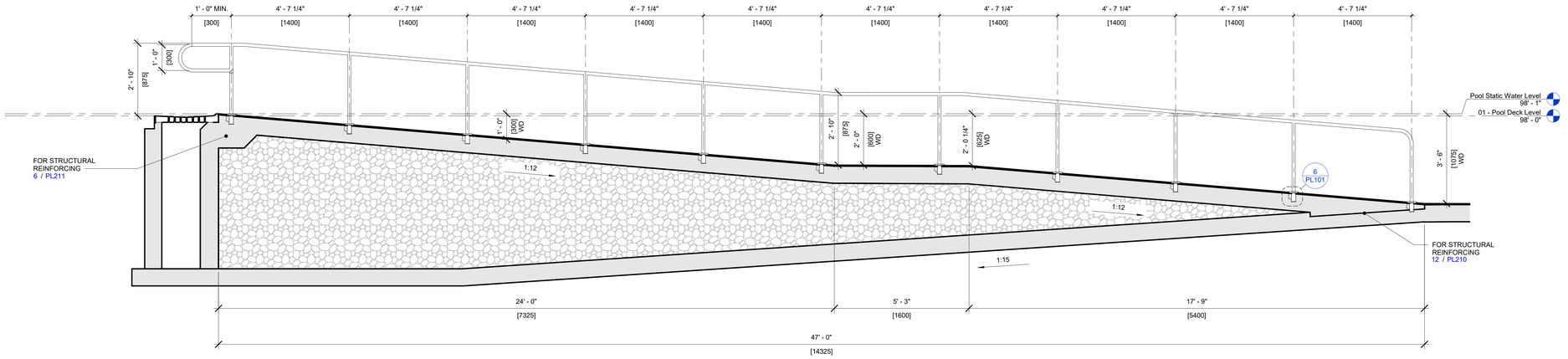
Sheet Title
POOL A - LAP POOL SECTIONS

Project Number: 24317

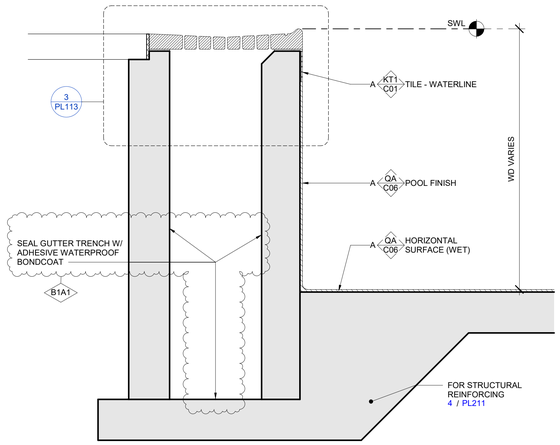
Sheet Number
PL112

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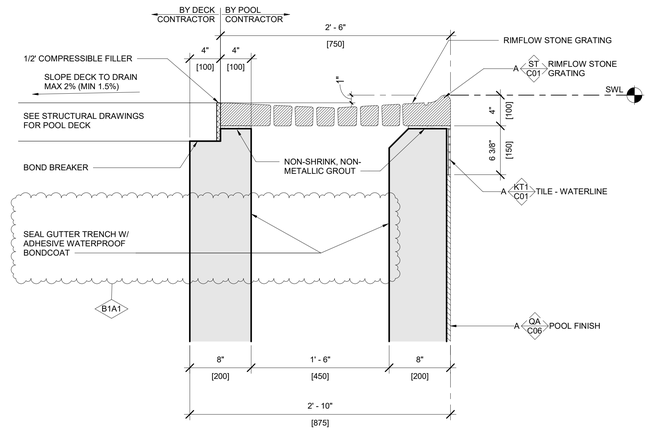
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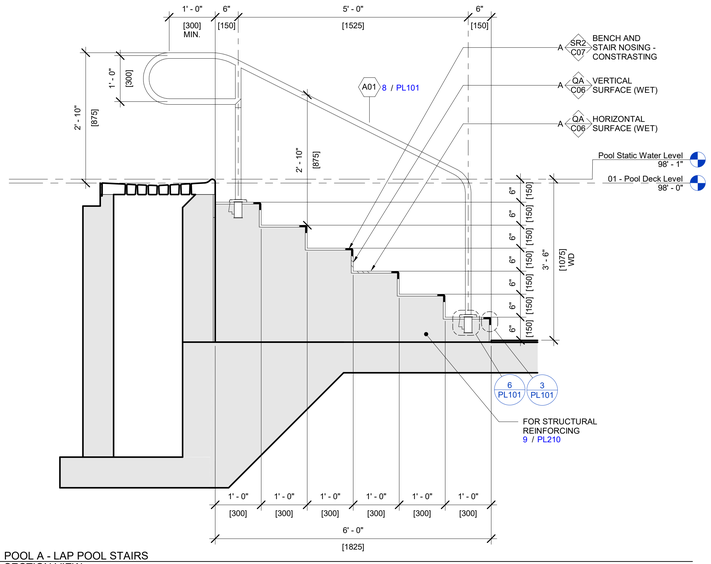
1 PL113 POOL A - LAP POOL RAMP SECTION VIEW
1/2" = 1'-0"



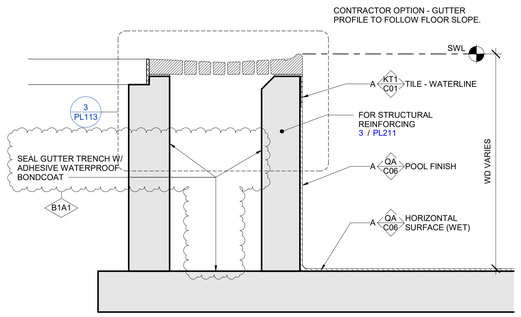
5 PL113 POOL WALL DETAIL VIEW
1" = 1'-0"



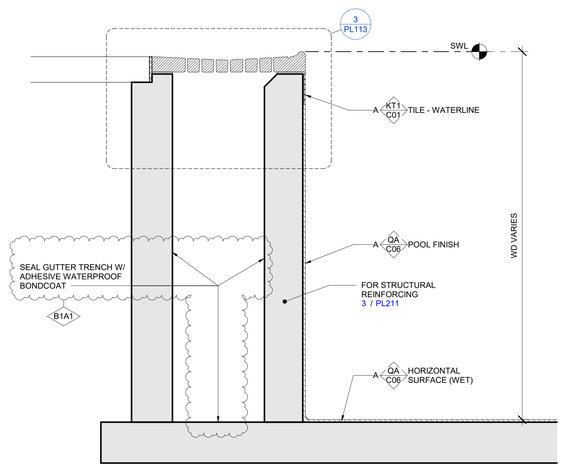
3 PL113 POOL WALL - FINISH DETAIL VIEW
1 1/2" = 1'-0"



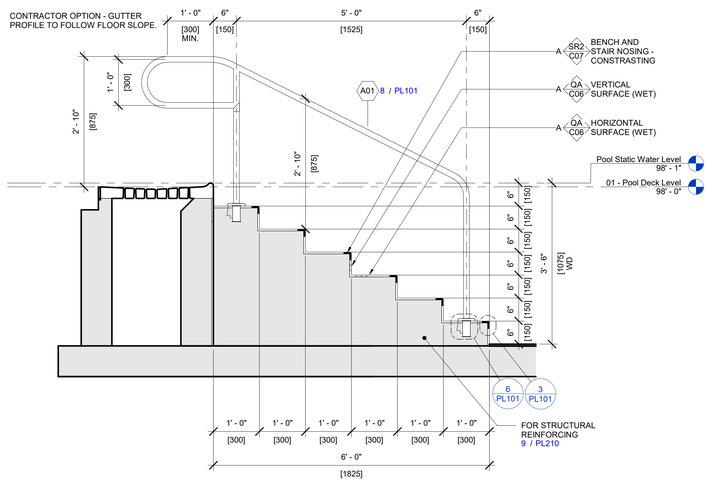
2 PL113 POOL A - LAP POOL STAIRS SECTION VIEW
3/4" = 1'-0"



5A PL113 POOL WALL - CONTRACTOR OPTION DETAIL VIEW
1" = 1'-0"



4 PL113 POOL WALL DETAIL VIEW
1" = 1'-0"



2A PL113 POOL A - LAP POOL STAIRS - CONTRACTOR OPTION SECTION VIEW
3/4" = 1'-0"

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ISSUE DATES:

Issue	Description	Date
BP1	BID PACKAGE #1	04-03-26
B1A1	BP#1 ADD#1	05-15-26

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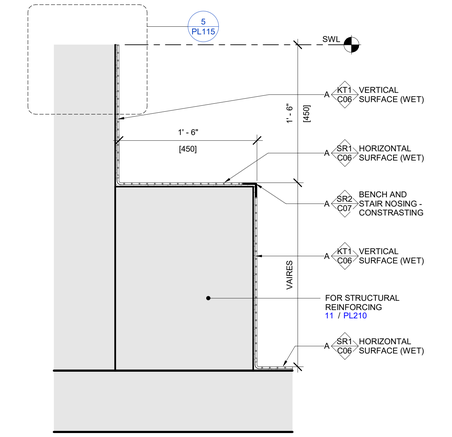
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POOL A - LAP POOL SECTIONS AND DETAILS

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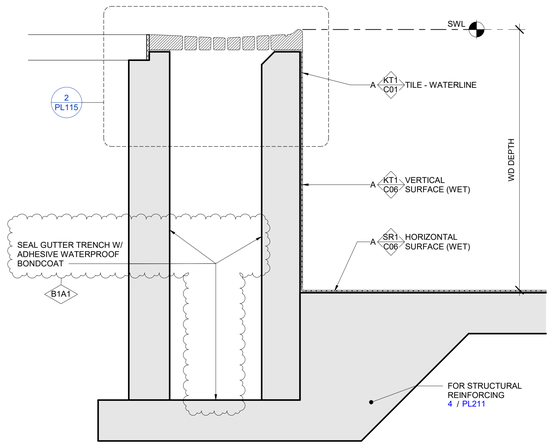
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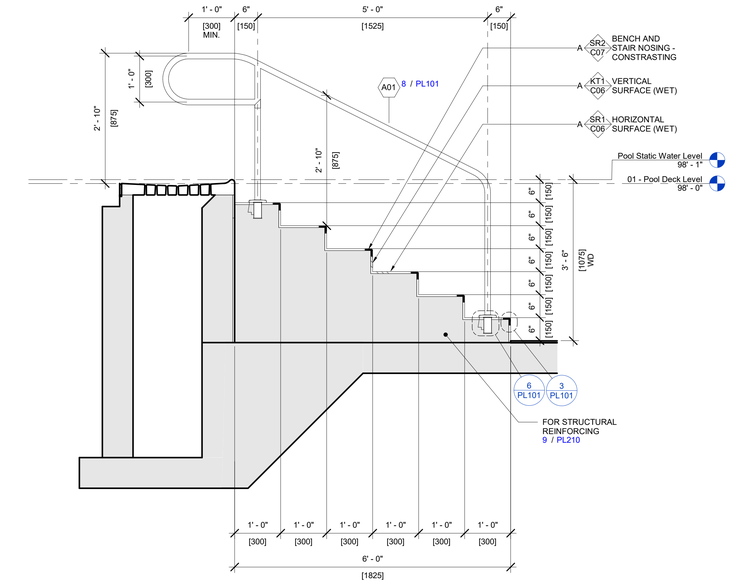
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7 | POOL WALL - BENCH DETAIL VIEW
PL115 | 1 1/2" = 1'-0"



4 | POOL WALL DETAIL VIEW
PL115 | 1" = 1'-0"


1' - 0"
[300]
MIN.
6"
[150]
5' - 0"
[1525]
6"
[150]
A SR2 C07 BENCH AND STAIR NOSING - CONSTRASTING
A KT1 C06 VERTICAL SURFACE (WET)
A SR1 C06 HORIZONTAL SURFACE (WET)
A01
8 / PL101
1' - 0"
[300]
2' - 10"
[875]
2' - 10"
[875]
Pool Static Water Level
98' - 1"
01 - Pool Deck Level
98' - 0"
3' - 4"
[1016]
6"
[150]
6"
[150]
6"
[150

CHEMICAL CONTROLLER SCHEDULE

ID TAG	MANUFACTURER	MODEL	NOTES
C1A	CHEMTROL	PC3000	1

1. SEE CHEMICAL CONTROLLER SPECIFICATION SECTION 13 11 37 FOR OPTIONS.

CHLORINE FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	SODIUM HYPOCHLORITE MAXIMUM OUTPUT (GAL/DAY)	NOTES
CP1A	A	BLUE-WHITE	A1A4-7T	0.01-100	1,2,3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE 12%-15% SODIUM HYPOCHLORITE FOR DISINFECTANT. BASIS OF DESIGN IS A PERISTALTIC PUMP WITH TUBE FAILURE LEAK DETECTION. PROVIDE WITH WEIGHTED FOOT STRAINER.
3. SEE SPECIFICATIONS SECTION 13 11 37.

pH FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	ACID MAXIMUM OUTPUT (GAL/DAY)	MAXIMUM OUTPUT PRESSURE (PSI)	Co2 LB/DAY	NOTES
AP1A	A	NEPTUNE BENSON	SCFH Co2 pH CONTROL SYSTEM			20-200	1,2,3
AP2A	A	BLUE-WHITE	A1A4-7T	0.01-100	40		1,2,3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE MURIATIC FOR pH CONTROL. BASIS OF DESIGN IS A PERISTALTIC PUMP WITH TUBE FAILURE LEAK DETECTION. PROVIDE WITH WEIGHTED FOOT STRAINER.
3. SEE SPECIFICATIONS SECTION 13 11 37.

STORAGE SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	MODEL	STORAGE QTY	CAPACITY EACH (GALLONS)	CAPACITY EACH (LBS CO2)	SIZE		NOTES
							DIAMETER	HEIGHT	
AS1		CO2 SUPPLIER	50lb CO2 STORAGE TANK	2		50	8"	3' - 11"	3,4,5
AS2	A	CHEMICAL SUPPLIER	15 GALLON CARBOY	3	15		1' - 2 77/128"	2' - 2 77/256"	2,3,5
CS1	A	CHEMTAINER	TC3539DC	1	100		2' - 10 1/2"	3' - 6 3/8"	1,3,5

1. PRIMARY DISINFECTION: DC SERIES DOUBLE WALL BULK STORAGE TANK, 16" MANWAY. FOR SODIUM HYPOCHLORITE STORAGE.
2. SECONDARY pH CONTROL 15 GALLON CARBOYS OF MURIATIC ACID PROVIDED BY OWNER'S CHEMICAL SUPPLIER.
3. ALL CHEMICALS ARE PROVIDED BY OWNER'S CHEMICAL SUPPLIER/S. CONTAINER SIZES ARE BASED ON AN APPROXIMATE 2-WEEK STORAGE ESTIMATE. COORDINATE DELIVERY AND STORAGE REQUIREMENTS WITH OWNER & SUPPLIER PRIOR TO ORDERING CONTAINERS.
4. PRIMARY pH CONTROL: TWO STANDARD 50 POUND CO2 STORAGE CYLINDER SYSTEMS COMPLETE WITH GAUGES, CYLINDER CHANGEOVER VALVE, RESTRAINTS, AND TUBING. INSTALL SYSTEM USING STAINLESS STEEL CYLINDER/TANK RESTRAINTS PER CODE. PLUMB WITH 3/16" ID 1000PSI BRAIDED TUBING FROM CYLINDERS TO REGULATOR AND 3/8" O.D. POLYTUBING FROM REGULATOR TO FEEDER.
5. SEE SPECIFICATIONS SECTION 13 11 37.

SPILL CONTAINMENT SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	QUANTITY	HEIGHT	LENGTH	WIDTH	NOTES
SC1	A	GRAINGER, ULTRATECH INTERNATIONAL	1	1' - 4 1/2"	4' - 5"	2' - 5"	1

1. MOLDED, ONE-PIECE POLYETHYLENE CONTAINMENT, MINIMUM 66-GALLON CAPACITY, TWO DRUM PALLET, MIN 3,000 LB LOAD CAPACITY, MATERIAL SHALL BE RATED AS SUITABLE FOR USE WITH CHEMICAL STORED. CONFORMANT TO ASTM D1998.

AUTOFILL SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	MAIN POOL FILL LINE			POOL AUTO FILL BY-PASS LINE			NOTES
				MIN FILL RATE (GPM)	POOL FILL TIME (HR)	VALVE SIZE (IN)	MIN FILL RATE (GPM)	1" FILL TIME (HRS)	VALVE SIZE (IN)	
AF1A	A	FLOWLINE	ECHOPOD DL24	59	:24	2	7.8	3	:75	1,2,3

1. MULTI-FUNCTION ULTRASONIC LIQUID LEVEL TRANSMITTER, LEVEL SENSING TO 9.8 FEET, 4-20 mA SIGNAL OUTPUT WITH 4 PROGRAMMABLE RELAYS. PROVIDE WITH 48" CABLE. PROVIDE WITH BELIMO 2-WAY POTABLE WATER VALVE AND ACTUATOR WITH ON/OFF, SPRING RETURN, & AC 24-240V / DC 24-125V UNIVERSAL POWER SUPPLY FOR MAIN FILL LINE HIGH LEVEL SHUTOFF VALVE & FOR AUTOFILL BY-PASS VALVE.
2. AUTOFILL FILL ASSEMBLY SHALL INCLUDE A SIGNET 2551 FLOW METER USED AS A TOTALIZER ON THE MAIN FILL LINE UPSTREAM TO THE BYPASS LOOP. THE FLOW METER IS FURNISHED AND INSTALLED BY THE POOL CONTRACTOR. SEE AUTOFILL DETAILS FOR FLOW METER INSTALLATION LOCATION. SEE THE FLOW METER SCHEDULE FOR FLOW METER MODEL NUMBERS AND MORE INFORMATION.
3. FILL FLOW RATES AND FILL TIMES SCHEDULED ABOVE ARE ESTIMATES AND MAY VARY DEPENDING ON WATER PRESSURE BUILDING PLUMBING DESIGN. INSTALL AUTOFILL PER MANUFACTURER'S INSTRUCTIONS, INSTALLATION DETAILS, PLUMBING SCHEMATICS, AND POOL ELECTRICAL WIRING DIAGRAMS.

ACCESSORIES SCHEDULE

MECHANICAL ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	NOTES
ACC1	HAWS COMBINATION SHOWER AND EYE/FACE WASH	HAWS CORPORATION	8336	1	2,3
ACC2	HAWS COMPACT PORTABLE GRAVITY FED EYEWASH	HAWS CORPORATION	7501	1	1
ACC2	HAWS COMPACT PORTABLE GRAVITY FED EYEWASH	HAWS CORPORATION	7501	1	1

1. MODEL 7501. INCLUDES 9 GALLON POLYETHYLENE TANK WITH ABS PLASTIC EYEWASH HEADS (0.4 GPM FLOW RATE OVER 15 MINUTES), STAINLESS STEEL WALL BRACKET (UNIT MUST BE HUNG). INCLUDE OPTIONAL WATER ADDITIVE, MODEL 9082, BACTERIOSTATIC PRESERVATIVE (ONE BOTTLE PRESERVES UP TO 20 GALLONS FOR UP TO FOUR MONTHS).
2. MODEL 9336 CORROSION-RESISTANT PVC PLASTIC COMBINATION SHOWER AND EYE/FACE WASH. PLUMBING CONTRACTOR TO INSTALL.
3. PROVIDE THERMOSTATIC MIXING VALVE MODEL# 9201E AXION EMERGENCY TEMPERING VALVE. FLOW RATE OF 31 GPM. PLUMBING CONTRACTOR TO INSTALL.

ANALOG FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	FM SENSOR LOCATION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FV1A	A	MECHANICAL ROOM	P1A, P2A	2 1/2"	40	1,2
FV2A	A	MECHANICAL ROOM	P1A, P2A	2 1/2"	52	1,2

1. REFER TO PIPING DRAWINGS TO VERIFY PIPE SIZE FOR FLOWMETER SENSOR.
2. FLOW METER FV- INDICATE THE BASIS OF DESIGN IS A FLOW VIS FLOWMETER/CHECKVALVE. INSTALL ON THE CHEMICAL LOOP AND HEATER LOOP.

POOL A-LAP POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	213'-4"	FEET
WATER SURFACE AREA	2,263	SQUARE FEET
POOL WATER TEMPERATURE	86-90	°F
POOL VOLUME	76,227	GALLONS
GUTTER OPERATING VOLUME	9,190	GALLONS
TOTAL VOLUME OF WATER	85,417	GALLONS
CIRCULATION RATE	475	GPM
TURNOVER/VOLUME/FLOW	180 MIN.	
NSF 50 FILTRATION RATE	12.06	GPM/FT²
BACKWASH FLOW	297	GPM
SURGE FACTOR	2.90	GAL/SQFT
AVAILABLE SURGE CAPACITY IN GUTTER	6564	GALLONS

AVAILABLE SURGE CAPACITY CALCULATION IS BASED ON FULL LENGTH GUTTER DEPTH. CONTRACTOR HAS OPTION TO CHANGE THE GUTTER PROFILE TO FOLLOW FLOOR SLOPE. REFER PL113 FOR MORE INFORMATION.

FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	MANUFACTURER	MODEL	SYSTEM DESCRIPTION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FM1A	A	SIGNET	3-2551-P1-12	FILTRATION	P1A	6	475	1,2

1. FLOW TO BE DISPLAYED ON VFD.
2. PROVIDE WITH SCH80 PVC-U CLAMP-ON SADDLE. SIGNET MODEL NUMBER PV8S060 (6").

VFD SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	NOTES
V1A	A	ABB	ACH580-BCR-023A-4-15HP	15	480	3	1,2,3,4

1. PROVIDE WITH UL TYPE 12 ENCLOSURE
2. VFD WITH E-CLIPSE BY-PASS.
3. SEE SPECIFICATIONS SECTION 13 11 26.
4. THE VFD SHALL INCLUDE A CONTACTOR MOTOR SELECTION CIRCUIT. THE CONTACTORS SHALL CONNECT THE VFD TO PUMP 1 OR PUMP 2, NEVER BOTH SIMULTANEOUSLY. THERE SHALL BE A DOOR MOUNTED SWITCH LABELED "PUMP 1-AUTO-PUMP 2". WITH THE SWITCH IN "AUTO" THE VFD SHALL AUTOMATICALLY SWITCH FROM LEAD TO LAG PUMP EVERY WEEK (PROGRAMMABLE). IN THE "PUMP 1" OR "PUMP 2" POSITION, THE SELECTED PUMP SHALL OPERATE UNTIL THE SWITCH POSITION IS CHANGED.

PUMP SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	PUMP TYPE	FLOW (GPM)	TDH (FT)	POWER (HP)	MOTOR SPEED (RPM)	NOTES
P1A	A	PENTAIR	EQKT1500	FILTRATION	475	91	15	3450	1,2,3
P2A	A	PENTAIR	EQKT1500	FILTRATION	475	91	15	3450	1,2,3

1. PENTAIR PUMPS - TEFC MOTOR, END SUCTION, CLOSED COUPLED, SELF PRIMING. PROVIDE WITH INTEGRAL STAINER AND EXTRA STRAINER BASKET. POWER REQUIRED - 208-230/460 V, 3 PHASE, 60 HERTZ.
2. SEE SPECIFICATIONS SECTION 13 11 25.
3. PUMPS TO OPERATE ONE AT A TIME. PUMP MANUFACTURER RECOMMENDS ALTERNATING PUMPS WEEKLY TO ENSURE EVEN RUNTIME VERSES THE AGE OF THE PUMPS.

FILTER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	FLOW (GPM)	FILTRATION RATE (GPM/FT2)	BACKWASH/DRAIN RATE (GPM/SF)	BACKWASH/DRAIN FLOW (GPM)	FILTER SIZE			NOTES
								FILTER AREA (FT2)	OPERATING WEIGHT (LB)	DIAMETER (IN)	HEIGHT (IN)	
F1A2	A	NEPTUNE BENSON	4848SHFFG	237.5	12.06	15	296	19.7	6310	50 1/2"	55"	1,2,3,4
F1A1	A	NEPTUNE BENSON	4848SHFFG	237.5	12.06	15	296	19.7	6310	50 1/2"	55"	1,2,3,4

1. SHFFG SERIES FILTERS ARE HIGH RATE SAND, HORIZONTAL FIBERGLASS TANK. PROVIDE WITH DUAL LEVER STAINLESS STEEL LINKAGE. MANUALLY BACKWASH ONE TANK AT A TIME.
2. USE DRYDEN AQUA DISTRIBUTION ACTIVATED FILTER MEDIA (AFM) FOR FILTER MATERIAL IN PLACE OF SAND. INSTALL PER DRYDEN AQUA RECOMMENDATIONS. SEE SPECIFICATIONS 13 11 32 FOR ADDITIONAL INFORMATION
3. USE SAND FILTER MEDIA WITH MATERIAL TYPE AND GRADATION PER FILTER MANUFACTURES RECOMENDATIONS. SEE SPECIFICATIONS 13 11 32 FOR ADDITIONAL INFORMATION.
4. SEE SPECIFICATIONS SECTION 13 11 32 FIBERGLASS FILTERS.

ULTRA VIOLET DISINFECTION SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	CONNECTION SIZE (IN)	TOTAL POWER (KW)	POWER REQUIRED (VOLTAGE/PHASE /HZ)	BREAKER SIZE (AMPS)	NOTES
UV1A	A	EVOQUA	WF-215-8	8	3	208/480V, 1PH (60HZ)	30	1,2,3

1. PROVIDE WITH 8" ETS "EZ" STRAINER VALVE.
2. INSTALL PER DETAILS SEE PL402 & UV MANUFACTURER'S RECOMMENDATIONS.
3. SEE SPECIFICATIONS SECTION 13 11 35.

HEATER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	BTU/HR INPUT	GAS CONNECTION (IN)	WATER CONNECTION (IN)	VENT DIAMETER (IN)	AIR INTAKE (IN)	NOTES
H1A	A	LOCHINVAR	APN400	399,000	1"	2"	4"	4"	1,3,4,5,6
H2A	A	HYDRO ROYAL	HR150TA	140,000	0"	2"	0"	0"	2,3
H3A	A	HYDRO ROYAL	HR150TA	140,000	0"	2"	0"	0"	2,3
H4A	A	HYDRO ROYAL	HR150TA	140,000	0"	2"	0"	0"	2,3

1. AQUAS HIGH EFFICIENCY (96%) COMMERCIAL POOL, FACTORY ASSEMBLED, SKID MOUNTED HEATING SYSTEM; MODULATING CONDENSING BOILER WITH TITANIUM PLATE HEAT EXCHANGER; MANUAL RESET HIGH LIMIT. PROVIDE WITH A.S.M.E. LABEL, BOILER PUMP, EXPANSION TANK RELIEF VALVE, FLOW SWITCH, DIRECT VENTING SYSTEM, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES. FURTHER PROVIDE WITH 2 1/2" FLOW/IS FLOWMETER ON HEATER INFLUENT PIPING AS SHOWN IN DETAILS.
2. ALTERNATE #PL02: ADD POOL HEATER HEATPUMP SYSTEM. ADD EQUIPMENT INCLUDING CONDENSING UNITS, PUMPS, STORAGE TANKS, PIPING, PIPING SUPPORTS, THERMOMETERS, GAUGES, PIPE INSULATION/JACKETING, HEAT TRACE (BY EC) AND EQUIPMENT PAD (BY GC). EC TO PROVIDE BREAKERS, DISCONNECTS, CONDUIT AND WIRING SERVING H2A, H3A, H4A AND ALL HEAT TRACE EQUIPMENT FOR THIS EQUIPMENT. B1A1
3. SEE SPECIFICATIONS SECTION 13 11 40.
4. GAS PIPING BY MECHANICAL CONTRACTOR.
5. VENTING BY MECHANICAL CONTRACTOR.
6. CONDENSATE PIPING BY MECHANICAL CONTRACTOR. POOL EQUIPMENT CONTRACTOR TO FURNISH CONDENSATE NEUTRALIZATION KIT TO MECHANICAL CONTRACTOR TO INSTALL.

MOTORIZED VALVES SCHEDULE EV

ID TAG	POOL ID	PIPE SIZE (IN)	VALVE SIZE	NOTES
EV1A	A	8	6"	1,2

1. ASAHI SERIES 19 SMART SAV MODULATING FAILSAFE ELECTRIC ACTUATOR WITH TYPE-57P BUTTERFLY VALVE. INCLUDES OLED SCREEN, MULTI-VOLTAGE, CORROSION RESISTANT NEMA4 ENCLOSURE, POSITION INDICATOR, MANUAL OVERRIDE, AND CAPACITOR DISCHARGE SYSTEM FOR FAILSAFE MODE. VALVE SHALL BE ONE SIZE SMALLER THAN THE PIPE SIZE. USE ELECTRIC ACTUATOR MODEL S20 FOR 1 1/2" - 2 1/2" VALVES, MODEL S50 FOR 3" - 4" VALVES, MODEL S110 FOR 6" VALVES, MODEL S400 FOR 8" - 10" VALVES.
2. SEE SPECIFICATION SECTION 13 11 24.

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Sheet Title
MECHANICAL EQUIPMENT SCHEDULES

Project Number: 24317

Sheet Number
PL401

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