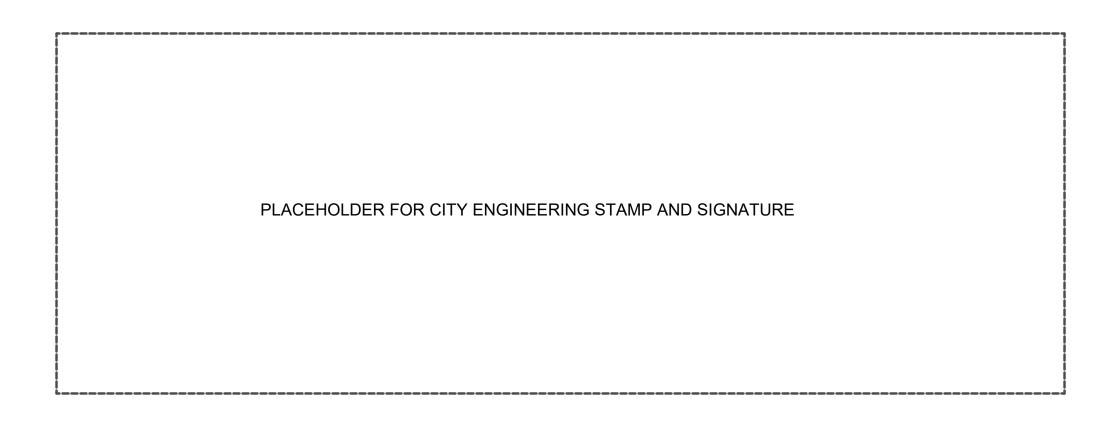
Olbrich Botanical Gardens Expansion Phase 1

BPW Project #8162 3330 Atwood Avenue Madison, WI 53704







Civil Engineer

Consultant

ID ACCL 1	Short Name	Section	Spec Data
ACCL-1	ACOUSTICAL CEILING SYSTEM	09 5113	MFR: Armstrong; PRODUCT: Optima, Plant Based; EDGE: Tegular; MODEL: 3251PB; PANEL SIZE: 24" x 24" x 1"; COLOR: White; GRID: 9/16", White;
ACCL-2	ACOUSTICAL CEILING SYSTEM	09 5113	MFR: Armstrong; PRODUCT: Optima, Plant Based; EDGE: Tegular; MODEL: 3265PB; PANEL SIZE: 24" x 60" x 1";
AXFL-1	ACCESS FLOORING	09 6900	COLOR: White; GRID: 9/16", White; MFR: Tate; PRODUCT: ConCore 1000; PANEL SIZE: 24" x 24";
AXFL-2	ACCESS FLOORING	09 6900	THICKNESS: 1 5/8"; UNDERSTRUCTURE: Posilock; MFR: Tate; PRODUCT: STONEWORKS: Classic Concrete; PANEL SIZE: 24" x 24";
CCT-1	CONCRETE COUNTERTOP	12 3613	THICKNESS: 1 5/16"; FINISH: Prosoco Concrete Protector WB; UNDERSTRUCTURE: Bolted Stringer; PRODUCT: Concrete Countertop COLOR: TBD;
			FINISH: Smooth Troweled; EDGE: Eased; SEALER: Clear, Matte; THICKNESS: See Drawings; SPLASHES: See Drawings; JOINT TYPE: Grouted, 1/16";
CFSF	COLD-FORMED STEEL FRAMING - SEE STRUCTURAL	05 4000	CUTOUTS: Sink with Drainboard and Faucets PRODUCT: Cold-formed Steel Studs and Furring;
CMU-2	CONCRETE MASONRY UNIT - SEE STRUCTURAL CONCRETE MASONRY UNIT - VENEER SEALED CONCRETE FINISH - SEE STRUCTURAL	04 2200 04 2200 03 3000	PRODUCT: Concrete Masonry Units; PRODUCT: Concrete Masonry Units; FINISH: Burnished; COLOR: Mfr Std Dark Gray/Black; PRODUCT: Penetrating Liquid Densifier and Sealer;
CONC-2	POLISHED CONCRETE FINISH	03 3543	POLISH: Level 1: Matte finish, 100 grit; FINISH: Penetrating Liquid Densifier and Sealer; FINISH ADDITIVE: Increte Shur-Grip or HTC Superfloor;
CPT-1	CARPET TILE FLOORING - PLANK	09 6813	MFR: Mohawk; STYLE: Lichen, Macro Bloom;
CPT-2	CARPET TILE FLOORING - PLANK	09 6813	COLOR: Iceland Moss; MFR: Mohawk; STYLE: Lichen Micro Bloom;
ELEV	HYDRAULIC MRL ELEVATOR	14 2410	COLOR: Iceland Moss; MFR: Otis (or ThyssenKrupp); STYLE: Machine-Roomless Hydraulic; MODEL: HydroFit (or Endura MRL); CAR TYPE: Passenger; CAPACITY (Ibs): 3,000; SPEED (fpm, min): 100; OPENING: Front, Right Hand; CAB ENTRANCE: 1-Speed, Satin Stainless Steel; OPERATING PANEL: Satin Stainless Steel; CAR PANELS: Custom Laminate, PLAM-4; HANDRAIL: Flat Bar 2"W, Satin Stainless Steel; BUMPER RAIL: Solid Bar, Satin Stainless Steel; CEILING: LED Perimeter-Lit, Painted White; FLOORING: Custom, See Finish Plan; HALL ENTRANCE: Charcoal EW-4;
FAS FEC	FALL ARREST SYSTEM FIRE EXTINGUISHER CABINET	11 2400 10 4413	FIXTURES: Classic, Satin Stainless Steel; BUTTONS: Flush, Illuminated Halo; PRODUCT: TBD; MFR: JL Industries (or Larsen);
GBD	GYPSUM BOARD	09 2900	MFR: JL Industries (or Larsen); MODEL: Embassy (or Occult); STYLE: Recessed Trimless; DOOR: Solid; COLOR: TBD; PRODUCT: Paper-faced Gypsum Board
GDRL-1	DECORATIVE METAL GUARDRAIL	05 7300	PRODUCT: Custom Steel Guardrail; FINISH: PT-4B, UNO;
GL-1	CLEAR ANNEALED GLASS	08 8000	PRODUCT: Annealed Glass; COLOR: Clear; THICKNESS: 1/4", typical;
GLBD-1A	GLASS MARKERBOARD - WHITE	10 1100	T indicates Tempered MFR: Clarus Glassboards, LLC.; STYLE: Wall2Wall;
HDRL-1	DECORATIVE METAL HANDRAIL	05 7300	COLOR: White, Magnetic Finish; PRODUCT: Stainless Steel Tubing; FINISH: Satin, No.4 Polish;
GU-1	INSULATED GLASS UNIT	08 8000	PROFILE: 1 1/2" Diameter; MFR: Cardinal Glass; PRODUCT: Double-Pane; COLOR: Clear; UNIT THICKNESS: 1"; FILL: Argon;
			H-WINDOW: Solar Control; CARDINAL: LoE366#2; U-VALUE (MAX): 0.25; VLT (MIN): 63%; SHGC (MAX): 0.27; T indicates Tempered
INSUL-1 INSUL-2	ACOUSTICAL INSULATION BELOW GRADE INSULATION	09 2900 07 2100	PRODUCT: Unfaced Mineral Wool Blanket Insulation; PRODUCT: Expanded Polystyrene Foam (EPS);
INSUL-3	CONTINUOUS WALL INSULATION	07 2100	TYPE: IX, 25-psi; R-VALUE: 4.2/inch; PRODUCT: Polyisocyanurate Foam;
			BOD: Hunter Panels, Xci CG; FACER: Glass-Fiber-Mat; FURRING SYSTEM: TBF;
INSUL-4	SPRAY FOAM INSULATION	07 2119	PRODUCT: Water-blown, Closed-cell Spray Polyurethane Foam; BOD: Icynene, ProSeal Eco; DENSITY: 2.2 pounds, Closed-cell; BLOWING AGENT: Water; R-VALUE: 4.9/inch;
INSUL-5	VENTILATED NAILBASE INSULATION	07 2100	VAPOR BARRIER: 2.4 inch; PRODUCT: Ventilated Nailbase Insulation; BOD: GAF, ThermaCal 1;
			SHEATHING: 1/2" Plywood; AIRSPACE: 1"; INSULATION: Polvisocvanurate:
LDR-1	WALL-MOUNTED LADDER	05 5000	PANEL THICKNESS: 6 1/2"; R-VALUE: 30; PRODUCT: Wall-mounted Access Ladder; WIDTH: 18"; RUNGS: 1" Square;
LDR-2	WALL-MOUNTED LADDER, EXTERIOR	05 5000	MATERIAL: Steel; FINISH: Factory Primed, Field Painted; PRODUCT: Wall-mounted Access Ladder;
			WIDTH: 18"; RUNGS: 1" Square; MATERIAL: Galvanized Steel; FINISH: Factory Primed, Field Painted;
LVR-1	LOUVER	08 9119	MFR: Greenheck; MODEL: ESD-202; TYPE: Drainable; DEPTH: 2 inches; FREE AREA (4x4): 38%;
LVR-2	ACOUSTICAL LOUVER	08 9119	COLOR: ; MFR: Greenheck; MODEL: AFS-120; TYPE: Acoustical, Sightproof; DEPTH: 12 inches;
MA-1	MILLWORK ACCESSORY - PULL	06 4116	FREE AREA (4x4): 27%; COLOR: ; MFR: Studio 917 Hardware;
MA-4	MILLWORK ACCESSORY - COAT ROD	06 4116	STYLE: Cityscape Collection; PRODUCT NUMBER: P204MB-128; MFR: Knape and Vogt;
MA-4 MA-5	MILLWORK ACCESSORY - COAT ROD MILLWORK ACCESSORY - PAPER TOWEL DISPENSR	06 4116	STYLE: Closet-Pro Regular-Duty Adjustable Closet Rod w/ Fixed Flange; PRODUCT NUMBER: RP0022-48/72; MFR: Bobrick;
MA-6	MILLWORK ACCESSORY - BOOT TRAY	06 4116	STYLE: TrimLineSeries; PRODUCT NUMBER: B-526; MFR: Uline
MA-7	MILLWORK ACCESSORY - WASTE BIN	06 4116	STYLE: Boot Tray; PRODUCT NUMBER: H-2662; MFR: Knape and Vogt;
MCP-1	METAL COMPOSITE PANEL	07 4213.23	STYLE: Soft Close, Top-Mount WAste adn Recycling Bins; PRODUCT NUMBER:TSC15-1-35PT; MFR: 3A Composites USA, Inc.; PRODUCT: Alucobond Plus, FR Core; THICKNESS: 4 mm SYSTEM: Rainscreen II, Insulation Outboard;
MP-1	METAL PANEL - STANDING SEAM - COPPER	07 4113.19	FINISH: Classic Colors; COLOR: TBD (Dusty Charcoal or Focus Black); PRODUCT: Standing Seam Metal Wall Panels; METAL: Copper; FINISH: Mill, Non-Patinated; WEIGHT: 20 oz; PANEL WIDTH: 6 inches;
MP-2	METAL PANEL - BLACKENED STEEL	05 5000	SEAM HEIGHT: 1 inch; UNDERLAYMENT: WRB with Slip Sheet; PRODUCT: Steel Plate Interior Wall Panels; THICKNESS: 1/4";
MS-1	METAL PAN STAIR - INTERIOR	05 5113	FINISH: Presto Black by Birchwood Technologies; FASTENERS: Counter-sunk Black Oxide Screws; PRODUCT: Metal Stair; TREADS: Precast Concrete Tread; MFR: Tectura Design by Wausau Tile, Inc.; TYPE: C-30, Tread with Setting Bed
MS-2	METAL PAN STAIR - EXTERIOR	05 5113	FINISH: TBD; SAFETY: Carborundum Strips; PRODUCT: Metal Stair; TREADS: Precast Concrete Tread; MFR: Tectura Design by Wausau Tile, Inc.; TYPE: C-60, Self-supporting Flat Tread;
NSMF OP-1	NON-STRUCTURAL METAL FRAMING OPERABLE PARTITION	09 2216 10 2239	COLOR: TBD; SAFETY: Carborundum Strips; PRODUCT: Non-Structural Metal Studs and Furring MFR: Modernfold;
			MODEL: Acousti-Seal 932; NRC: 0.65 (Perforated Panels); STC: 54; PANEL FINISH: Fabric; MFR: CARNEGIE; STYLE: XOREL, SLEET EMBROIDER;
PLAM-1	PLASTIC LAMINATE	06 4116	COLOR: 6299-820; MFR: WILSONART;
			STYLE: STANDARD LAMINATE; COLOR: CRISP LINEN, 4942-38; MFR: WILSONART:
PLAM-2	PLASTIC LAMINATE	06 4116	···· · · · · · · · · · · · · · · · · ·
PLAM-2 PLAM-3	PLASTIC LAMINATE PLASTIC LAMINATE	06 4116	STYLE: TRACELESS; COLOR: CHARCOAL VELVET, 15504-31; MFR: WILSONART:

ID PLAM-4	Short Name PLASTIC LAMINATE - ELEV-1	Section 06 4116	Spec Data MFR: WILSONART;
			STYLE: STANDARD LAMINATE; COLOR: Dove Grey, D92-60, Matte;
PT-1_	INTERIOR PAINT - FLAT	09 9123	PRODUCT: Interior Paint; SHEEN: Flat;
PT-2_	INTERIOR PAINT - EGGSHELL	09 9123	PRODUCT: Interior Paint; SHEEN: Eggshell;
PT-3_	HIGH-PERFORMANCE INTERIOR PAINT - SEMI-GLOSS	09 9123	PRODUCT: Interior Paint; SHEEN: Semi-Gloss;
PT-4_ PT-5_	HIGH-PERFORMANCE EXTERIOR PAINT - SEMI-GLOSS EXTERIOR POWDERCOAT	09 9113	PRODUCT: Exterior Paint; SHEEN: Semi-Gloss; PRODUCT: Exterior Powdercoat;
PTA	PAINT COLOR - WHITE	09 9123	SHEEN: Semi-Gloss; MFR: BENJAMIN MOORE;
			STYLE: CW-10; COLOR: CAPITOL WHITE;
PTB	PAINT COLOR - CHARCOAL	09 9123	MFR: BENJAMIN MOORE; STYLE: 2124-10;
PTC	PAINT COLOR - ACCENT COLOR	09 9123	COLOR: WROUGHT IRON; MFR: Sherwin Williams; STYLE: SW 7617:
PVR-1	PEDESTAL PAVER SYSTEM - CONCRETE	07 7600	COLOR: Mediterranean; PRODUCT: Concrete Pavers on Pedestals:
	TEDESTALITAVER OF OTHER CONTROL	07.7000	MFR: Westile or Bison; MODULE: 24" x 24";
			THICKNESS: 2"; COLOR: TBD;
PVR-2	PEDESTAL PAVER SYSTEM - WOOD	07 7600	PRODUCT: Wood Slat Pavers on Pedestals; MFR: Bison Innovative Products; MODEL: WT-FSC-100%-CUMARU-24;
			MODULE: 24" x 24"; SPECIES: Cumaru, FSC;
PWD-1	CONCEALED PLYWOOD BACKING	06 1000	FINISH: Unsealed; PRODUCT: Concealed Plywood Backing Panels;
			GRADE: DOC PS 1, Exposure 1, C-D Plugged, FRT; THICKNESS: 3/4";
RA-1	ROOF ANCHOR FOR PV RACKING	07 5323	MFR: Anchor Products; PRODUCT: U-Anchor 2000 EPDM;
REVEAL-1	5/8" GYPSUM REVEAL TRIM	092116	MFR: Fry Reglet Corporation; MODEL:TDM-625-1125; FINISH: Aluminum, Black
RFNG-1	EPDM ROOFING SYSTEM	07 5323	MFR: Firestone or Carlisle; MEMBRANE: EPDM, 90-mil, Black;
			INSTALLATION: Fully adhered; COVER BOARD: High-Density Polyisocyanurate;
RFNG-2	METAL ROOFING SYSTEM	07 4113.16	PRODUCT: Standing Seam Metal Roofing; SEAM TYPE: Double-lock;
			METAL: 16 ounce, Quarter-hard Copper; FINISH: Mill, Non-patinated;
			UNDERLAYMENT: Synthetic Roofing Felt, GAF Deck Arm ICE/WATER: Self-Adhering, High-Temp Sheet; SLIP SHEET: Rosin Paper;
RFNG-3	EPDM FLASHING	07 5323	MFR: Firestone or Carlisle; MEMBRANE: Cured EPDM, 60-mil, Black, Self-adhered;
RH	ROOF HATCH	07 7200	INSTALLATION: Fully adhered; PRODUCT: Single-Leaf Insulated Roof Hatch;
			SIZE: 30" x 36"; MATERIAL: Aluminum;
RSIC-1	RESILIENT SOUND ISOLATION CLIP	09 2216	FINISH: Mill Finish; MFR: PAC International, Inc; MODEL: RSIC-1:
SHELF-1	SHELVING SYSTEM STANDARD 84"H	06 4116	MODEL: RSIC-1; MFR: Estey; MODEL: PILWCH84;
			SIZE: 84"H; COLOR: Arctic White;
SHELF-2	SHELVING SYSTEM SHELF AND BRACKET	06 4116	MFR: Estey; MODEL: IN3618A;
			SIZE: 36"W x 18"D; COLOR: Arctic White;
SHELF-3	SHELVING SYSTEM SHELF AND BRACKET	06 4116	MFR: Estey; MODEL: IN3018A; SIZE: 30"W x 18"D:
SHELF-4	SHELVING SYSTEM STANDARD 30"H	06 4116	SIZE: 30"W x 18"D; COLOR: Arctic White; MFR: Estey;
SHELF-4	SHELVING SYSTEM STANDARD 30 H	00 4110	MODEL: PILWCH30; SIZE: 30"H;
SHTG-1	GYPSUM SHEATHING	06 1600	COLOR: Arctic White; PRODUCT: Exterior Gypsum Sheathing;
			TYPE: Type X, Glass-Mat Facer; THICKNESS: 5/8";
SHTG-2	PLYWOOD SHEATHING	06 1600	PRODUCT: Exterior Plywood Sheathing; GRADE: DOC PS1, Exterior, FRT; SPAN RATING: 32/16;
SMF-1	SHEET METAL FLASHING - COPPER	07 6200	THICKNESS: 1/2"; PRODUCT: Copper Sheet;
SIVIF-1	SHEET WEIGH PLASHING - COFFER	07 0200	FINISH: Mill, Non-Patinated; WEIGHT: 20 oz, UNO.
			GUTTERS: Match Existing Profile; DOWNSPOUTS: Formed Round, 5" D;
SMF-2	SHEET METAL FLASHING - GRAY/BLACK	07 6200	UNDERLAYMENT: Self-Adhering, High-Temp Sheet; PRODUCT: Coated Aluminum Sheet; THICKNESS: 0.040", UNO;
SSF-1	SOLID SURFACE	12 3661	COLOR: TBD, Match WDW-1 and MCP-1; MFR: CAESARSTONE;
001-1	SOLID GOLVAGE	12 3001	STYLE: 4120; COLOR: RAVEN;
SSF-2	SOLID SURFACE	12 3661	MFR: CAESARSTONE; STYLE: 6141;
STN-1	STONE VENEER	04 4313.13	COLOR: OCEAN FOAM; MFR: Buechel Stone Corp;
			PRODUCT: Full Bed Veneer; COLOR: Fond du Lac Rustic;
STN-2	CLIT STONE TOIM	04 4242 42	TEXTURE: Rustic; WEEP SYSTEM: Masonry Technology, Inc.;
S1N-2	CUT STONE TRIM	04 4313.13	MFR: Buechel Stone Corp; PRODUCT: Cut Limestone Shapes; COLOR: Indiana Buff (or Texas Creme);
TA-04	TOILET TISSUE DISPENSER JUMBO-ROLL (OFCI)	10 2800	TEXTURE: Smooth; MFR: TBC by Owner;
-			STYLE: ; COLOR: ;
TA-05	PAPER TOWEL (FOLDED) DISPENSER	10 2800	MFR: Bobrick; MODEL: B-526; FINISH: Satin Stainless Steel:
TA-06	PAPER TOWEL (ROLL) DISPENSER (OFCI)	10 2800	MFR: TBC by Owner; STYLE:;
TA-11	LIQUID-SOAP DISPENSER (OFCI)	10 2800	COLOR: ; MFR: TBC by Owner;
IA-11	EIGOD-OGAL BIOLENGER (OLON)	10 2000	STYLE:; COLOR:;
TA-12	GRAB BAR	10 2800	MFR: Bobrick; MODEL: B-6806;
			FINISH: Satin Stainless Steel; DIAMETER: 1 1/2"; LENGTH: See Province:
TA-14	SANITARY-NAPKIN DISPOSAL UNIT	10 2800	LENGTH: See Drawings; MFR: Bobrick; MODEL: B-270;
TA-17	MIRROR UNIT (FRAMED)	10 2800	MODEL: B-270; FINISH: Satin Stainless Steel; MFR: DESIGN WITHIN REACH:
. , x-11		.0 2000	MFR: DESIGN WITHIN REACH; STYLE: LUCIANO MIRROR, SMALL; COLOR: BLACK;
TA-19	НООК	10 2800	MFR: Bobrick; MODEL: B-2116;
TA-24	DIAPER-CHANGING STATION	10 2800	FINISH: Satin Nickel; MFR: Koala Kare;
			MODEL: KB110-SSRE; FINISH: Satin Stainless Steel;
TBF	THERMAL BREAK FRAMING	07 2100	MFR: Advanced Architectural Products; PRODUCT: SMARTci; MODEL: GREENgirt;
ТВМ	THERMAL BREAK MATERIAL - SEE STRUCTURAL	GEN NOTES	MFR: Fabreeka or Armatherm; PRODUCT: Structural Thermal Break Material;
TL-1	CERAMIC TILE	09 3013	MFR: FIRECLAY TILE; STYLE: ARABLE;
TL-2	CERAMIC TILE (OFCI)	09 3013	COLOR: CUSTOM - SPRUCE, HUNTER, LIMON, CARBO MFR: OFCI;
			STYLE: 4"X4" COLOR: N/A;
TL-3	CERAMIC TILE WALL BASE (OFCI)	09 3013	MFR: OFCI; STYLE: 4" x 6", COVE BASE COLOR: N/A:
TLBD	TILE BACKER BOARD	09 2900	COLOR: N/A; PRODUCT: Cement Board
TLFL-1	TILE FLOORING	09 3013	MFR: MOSA; STYLE: SELECTION ONE, 12X24; COLOR: 1104 V;
TLFL-2	TILE FLOORING	09 3013	MFR: American Olean; STYLE: Quarry Naturals;
			COLOR: Shadow Gray N46; SIZE: 8x8;
TREAD-1	ARCHITECTURAL PRECAST CONCRETE TREAD BONDED TO BENT STEEL RISERS	05 5100	
TREAD-2	WAUSAU PRECAST STAIR TREAD C-60 SELF-SUPPORTING FLAT TREAD	05 5100	MIN THICKNESS 3 1/2"
TS-1	STAINLESS STEEL TRELLIS SYSTEM	05 9443	MFR: Jakob, Inc.; PRODUCT: GreenGuide System; MATERIAL: Type 316 Staipless Steel:
			MATERIAL: Type 316 Stainless Steel; ROPE TOP: Swaged Radius Head; ROPE BOTTOM: Swaged GreenGuide Eye;
			TENSIONING: Turnbuckle; MOUNTING: GreenGuide Spacer;
TWF	THRU-WALL FLASHING AND DRIP EDGE	07 2715	MFR: 3M; PRODUCT: 3015TWF;
			TYPE: Sheet-Applied; DRIP EDGE: Stainless Steel
VB	UNDERSLAB VAPOR BARRIER	03 3000	MFR: Stego or Raven; PRODUCT: ASTM E1745, Class A;
WAVB	WATER-AIR-VAPOR BARRIER MEMBRANE	07 2715	THICKNESS: 10-mil min.; MFR: 3M;
			PRODUCT: 3015; TYPE: Sheet-Applied; VAPOR (max): 0.1 US perm;
WB-1	RUBBER WALL BASE	09 6513	VAPOR (max): 0.1 US perm; AIR (max): 0.004 CFM/sf at 1.57 lb./sf; MFR: JOHNSONITE:
4 4 1 No. 1	RUBBER WALL BASE	U8 U3 I3	MFR: JOHNSONITE; STYLE: TRADITIONAL WALL BASE; COLOR: 63 BURNT UMBER B;
****	STEEL WALL BASE	05 5000	PRODUCT: Steel Plate Interior Wall Base; THICKNESS: 1/4";
WB-2		1	FINISH: Presto Black by Birchwood Technologies;
			ADHESIVE: Low VOC;
WB-2	ACETYLATED WOOD	06 2013	ADHESIVE: Low VOC; MFR: Accsys Technologies PLC; PRODUCT: Accoya Wood;
WB-2 WD-1	ACETYLATED WOOD INTERIOR FINISH WOOD	06 2013 06 2023	ADHESIVE: Low VOC; MFR: Accsys Technologies PLC; PRODUCT: Accoya Wood; SPECIES: Radiata Pine; PRODUCT: Reclaimed Wood for Interior Trim;
			ADHESIVE: Low VOC; MFR: Accsys Technologies PLC; PRODUCT: Accoya Wood; SPECIES: Radiata Pine;

ID	Short Name	Section	Spec Data
WDCL-1	WOOD CEILING SYSTEM	09 5426	MFR: Armstrong; PRODUCT: Woodworks Grille; PANEL TYPE: 7266BO; SLAT SIZE: 5/8" x 2 1/4"; SLATS PER PANEL: 8; PANEL SIZE: 12"W x 2 3/4"H; PANEL LENGTH: Custom, See Drawings; FINISH: Grille Maple; GRID: Heavy-Duty Prelude XL; GRID COLOR: Black; INFILL PRODUCT: BioAcoustic; INFILL TYPE: 5823; INFILL COLOR: Black (Matte);
WDW-1	ALUMINUM/WOOD WINDOW	08 5200	MFR: H-Window; TYPE: Direct Set; IGU: Confirm 3P or 2P; SPECIES: Reclaimed Ash furnished by Owner; WD FINISH: Clear sealer; AL FINISH: Painted; COLOR: TBD, match MCP-1 and SMF-2; DOORS: Nordic Outswing Heavy Commercial Doors; THICKNESS: 2 1/4";
WF-1	WINDOW FILM, PRIVACY	08 8733	MFR: 3M; PRODUCT: Fasara Glass Finish; PATTERN: Milky White (Milano), SH2MAML;
WP-1	WATERPROOFING MEMBRANE	07 1416	MFR: GCP/Grace; PRODUCT: Procor;
WRB	WATER-RESISTIVE BARRIER	07 2500	PRODUCT: Single Layer #15 Asphalt Felt; TYPE: ASTM D226, Type I; SLIP SHEET: Rosin Paper;
NT-1A	ROLLER WINDOW SHADE, MOTORIZED	12 2413	MFR: Hunter Douglas; TYPE: Moterized, Single; SHADING: 5% Openness; COLOR: GreenScreen Evolve HD3505, Shale;
WT-2A	ROLLER WINDOW SHADE, MANUAL	12 2413	MFR: Hunter Douglas; TYPE: Manual, Single; SHADING: 5% Openness; COLOR: GreenScreen Evolve HD3505, Shale;

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_003	GRADING PLAN
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4 358	EXTERIOR DETAILS - COPPER ROOFING
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GH6.1 GH6.2	GREENHOUSE BENCH PLAN GREENHOUSE EQUIPMENT SECTIONS
GH6.3	GREENHOUSE CONTROL (GROWING AREA)
GH6.4 GH6.5	GREENHOUSE CONTROL (CORRIDOR) GREENHOUSE CONTROL (CONSERVATORY)
GH6.6	GREENHOUSE CONTROL (INTERCONNECT)
GH6.8 GH7	TYPICAL GREENHOUSE COOL CELL DETAILS GREENHOUSE RIDGE SECTION
эн <i>т</i> ЭН8	TYPICAL GREENHOUSE SIDEWALL SECTION
GH8.1	TYPICAL GREENHOUSE PARTITION SECTION

TYPICAL GREENHOUSE PARTITION SECTION GREENHOUSE ROOF TO GABLE SECTION

GREENHOUSE DOOR SCHEDULE GREENHOUSE CLOSURE DETAILS

SHT NO GREENHOUSE	SHEET NAME E HEATING
H1	GREENHOUSE HEATING SYSTEM NOTES & SCHEDULES
H2	GREENHOUSE HEATING SYSTEM LAYOUT
H2A	GREENHOUSE HEATING SYSTEM PEX MANIFOLD BOX
H3	GREENHOUSE HEATING SYSTEM PEX LAYOUT
H3A	GREENHOUSE HEATING SYSTEM PEX DETAILS
H4	GREENHOUSE UPPER & LOWER FIN TUBE LAYOUT
H4A	GREENHOHUSE SNOW MELT FIN TUBE LAYOUT
H4B	FIN TUBE DETAILS
H4C	FIN TUBE COVER AND INSULATION DETAILS
H5	TROPICAL GHSE A PIPING ELEVATION
H5A	TROPICAL GHSE B PIPING ELEVATION
H5B	ORCHID INT GHSE A PIPING ELEVATION
H5C	ORCHID INT GHSE B PIPING ELEVATION
H5E	PRODUCTION GHSE A PIPING ELEVATION
H6	MIXING VALVE DETAILS
H6A	ZONE CONTROL VALVE DETAILS
H7	BENCHTOP HEATING LAYOUT
H7A	BENCHTOP HEATING DETAILS
MECHANICAL	
M001	MECHANICAL TITLE SHEET
MD111	GREENHOUSE MECHANICAL PIPING DEMO PLAN
MD131	COMMONS AREA MECHANICAL DEMOLITION PLAN
M101	LEARNING CENTER MECHANICAL DUCTWORK PLAN
M102	LEARNING CENTER MECHANICAL PIPING PLAN
M103	LEARNING CENTER RADIANT HEAT AND COOL
M111	GREENHOUSE MECHANICAL PIPING PLAN
M112	ENLARGED PLANS AND SECTIONS
M113	ENLARGED PLANS AND SECTIONS
M131	COMMONS AREA MECHANICAL PIPING PLAN
M201	MECHANICAL DETAILS
M202	MECHANICAL COLLEGE
M301	MECHANICAL SCHEDULES
M302	MECHANICAL CONTROLS SOLIFMATICS
M303	MECHANICAL CONTROLS SCHEMATICS
M401	MECHANICAL CONTROL SCHEMATICS
M402	MECHANICAL CONTROL SCHEMATICS
PLUMBING	
P000	PLUMBING TITLE SHEET
PD111	GREENHOUSE PLUMBING DEMO PLAN - BELOW GRADE
PD112	GREENHOUSE PLUMBING DEMO PLAN - ABOVE GRADE
PD131	COMMONS AREA PLUMBING DEMO PLAN
P100	LEARNING CENTER PLUMBING PLAN - BELOW GRADE
P101	LEARNING CENTER PLUMBING PLAN - ABOVE GRADE
P102	LEARNING CENTER PLUMBING ROOF PLAN
P111	GREENHOUSE PLUMBING PLAN - BELOW GRADE
P112	GREENHOUSE PLUMBING PLAN - ABOVE GRADE
P131	COMMONS AREA PLUMBING PLAN
P201	PLUMBING RISER DIAGRAM
P301	PLUMBING DETAILS & SCHEDULES
P401	PLUMBING SCHEDULES AND RAIN/RO SCHEMATIC
IRRIGATION	
I100	IRRIGATION PUMP SKID
I101	IRRIGATION DEMO AND QUICK COUPLER PLAN
FIRE PROTEC	
F000	SITE PLAN, GENERAL NOTES, DETAILS
F100	FIRE PROTECTION LEVEL 1
F101	FIRE PROTECTION PLAN EXTG BUILDING
	FIRE PROTECTION LEVEL 2 - NEW ADDITION
F102 F103	FIRE PROTECTION 1970s BUILDING
F103	
F103 ELECTRICAL	FIRE PROTECTION 1970s BUILDING
F103 ELECTRICAL E000	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET
F103 ELECTRICAL E000 ED100	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION
F103 ELECTRICAL E000 ED100 ED110	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN
F103 ELECTRICAL E000 ED100 ED110 E001	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN
ELECTRICAL E000 ED100 ED110 E001 E002 E101	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS
ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T001	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE FIRE DETECTION PLAN GREENHOUSE FIRE DETECTION PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER FLOOR PLAN - LEVEL 1 - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T101	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER ROOF PLAN - LEVEL 1 - TECHNOLOGY LEARNING CENTER ROOF PLAN - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T102 T111	FIRE PROTECTION 1970s BUILDING ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER FLOOR PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T102 T111 T200	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER ROOF PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T102 T111 T200 T300	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY LEARNING CENTER FLOOR PLAN - LEVEL 1 - TECHNOLOGY LEARNING CENTER ROOF PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY ENLARGED PLANS - TECHNOLOGY DETAILS - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T102 T111 T200 T300 T400	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER POWER PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER FOOF AND BELOW GRADE POWER PLAI GREENHOUSE LIGHTING PLAN GREENHOUSE FIRE DETECTION PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER ROOF PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY ENLARGED PLANS - TECHNOLOGY RISER DIAGRAMS - TECHNOLOGY
F103 ELECTRICAL E000 ED100 ED110 E001 E002 E101 E102 E103 E104 E111 E112 E113 E400 E410 E500 TECHNOLOGY T000 TD001 T101 T102 T111 T200 T300	ELECTRICAL TITLE SHEET LOBBY LIGHTING DEMOLITION GREENHOUSE ELECTRICAL DEMO PLAN SITE LANDSCAPE POWER PLAN SECOND FLOOR EXTERIOR LIGHTING PLAN LEARNING CENTER LIGHTING PLAN LEARNING CENTER FIRE DETECTION PLAN LEARNING CENTER ROOF AND BELOW GRADE POWER PLAN GREENHOUSE LIGHTING PLAN GREENHOUSE POWER PLAN GREENHOUSE FIRE DETECTION PLAN GREENHOUSE FIRE DETECTION PLAN ONE-LINE DIAGRAM AND SCHEDULES ELECTRICAL GREENHOUSE SCHEDULES ELECTRICAL DETAILS TECHNOLOGY COVER SHEET SITE DEMOLITION PLAN - TECHNOLOGY SITE PLAN - TECHNOLOGY LEARNING CENTER ROOF PLAN - LEVEL 1 - TECHNOLOGY GREENHOUSE FLOOR PLAN - LEVEL 1 - TECHNOLOGY ENLARGED PLANS - TECHNOLOGY DETAILS - TECHNOLOGY

SITE AND BUILDING CONDITIONS AND EXISTING OPENING SIZES. DISCREPANCIES BETWEEN EXISTING AND NEW CONDITIONS (SETTING OUT OF WALLS, ETC.) SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT.

3. ALL EXISTING CONDITIONS NEED TO BE PROTECTED FROM DAMAGE DURING MOBILIZATION, DEMOLITION AND CONSTRUCTION OPERATIONS FROM NOTICE TO PROCEED UNTIL HANDOVER OF THE ENTIRE PROPERTY BACK TO THE OWNER AT

4. "PROTECTION FROM DAMAGE" MEANS TO PREVENT DAMAGE FROM PHYSICAL IMPACTS, VIBRATION, VANDALISM, MOISTURE, WATER, HEAT, DUST, DEBRIS, PESTS, VERMIN, INSECTS, BIRDS, ETC.. TAKE ALL PRECAUTIONS AND REPORT ALL PROBLEMS OR ISSUES ARISING FROM OPENING UP EXISTING CONDITIONS PER THE DESIGN DOCUMENTS. TEMPORARY REMOVAL AND REPLACEMENT OF ANY COMPONENTS OR ASSEMBLIES SHALL BE TREATED WITH THE SAME CAUTION WHETHER OR NOT THEY ARE BEING RE-USED IN THE SAME OR NEW LOCATIONS ON THE PROJECT, OR NOT.

5. PROTECT ALL REMAINING PORTIONS OF THE BUILDING, LANDSCAPING, EXISTING MONUMENTS, FEATURES AND OTHER PROPERTY NOT SCHEDULED FOR DEMOLITION. THESE AREAS SHALL BE COMPLETELY PROTECTED DURING DEMOLITION AND REMOVAL OF DEBRIS. ANY RESULTING DAMAGE SHALL BE REPAIRED OR REPLACED TO LIKE-NEW CONDITION BY THE CONTRACTOR RESPONSIBLE UNDER THE DIRECTION

6. THE MEANING OF "PREPARE AREAS" OF DEMOLITION AND REMOVAL FOR NEW COMPONENTS/FINISHES IS THAT IT IS TO BE LEFT CLEAR OF DEBRIS, DUST, LOOSE MATERIAL, NAILS, SCREWS, ANCHORS, REINFORCEMENT AND ALL OTHER FIXING TYPES, AND IN A SOUND MANNER, SUITABLE AS A SUBSTRATE FOR SUBSEQUENT PREPARATION AND FINISHING BY OTHER TRADES. REFER TO SPECIFICATIONS FOR APPLICABLE TRADES IN AREAS WHERE DEMOLITION AFFECTS EXISTING WALLS / CEILINGS / UNDERSIDE FLOOR DECKS TO REMAIN.

SERVICE TO AVOID CONFLICTS.

7. EXISTING DOORS AND FRAMES IDENTIFIED AS REQUIRING HARDWARE WORK SHALL BE COMPLETED SO THAT THEIR NEW FUNCTIONS COORDINATE WITH EXISTING

9. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS REQUIRED

1. THE BUILDING SERVICES AND UTILITIES CONTRACT DRAWINGS ARE SCHEMATIC BE SUBMITTED AS SUCH.

2. EACH CONTRACTOR/SUBCONTRACTOR IS EXPECTED TO HAVE INCLUDED IN HIS/HER BID SUFFICIENT FITTINGS, MATERIAL, AND LABOR TO ALLOW FOR ADJUSTMENTS IN ROUTING OF UTILITIES MADE NECESSARY BY THE COORDINATION PROCESS AND TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. THE CONTRACTOR / SUBCONTRACTORS WILL NOT BE ALLOWED ADDITIONAL COSTS OR TIME EXTENSIONS DUE TO PARTICIPATION IN THE

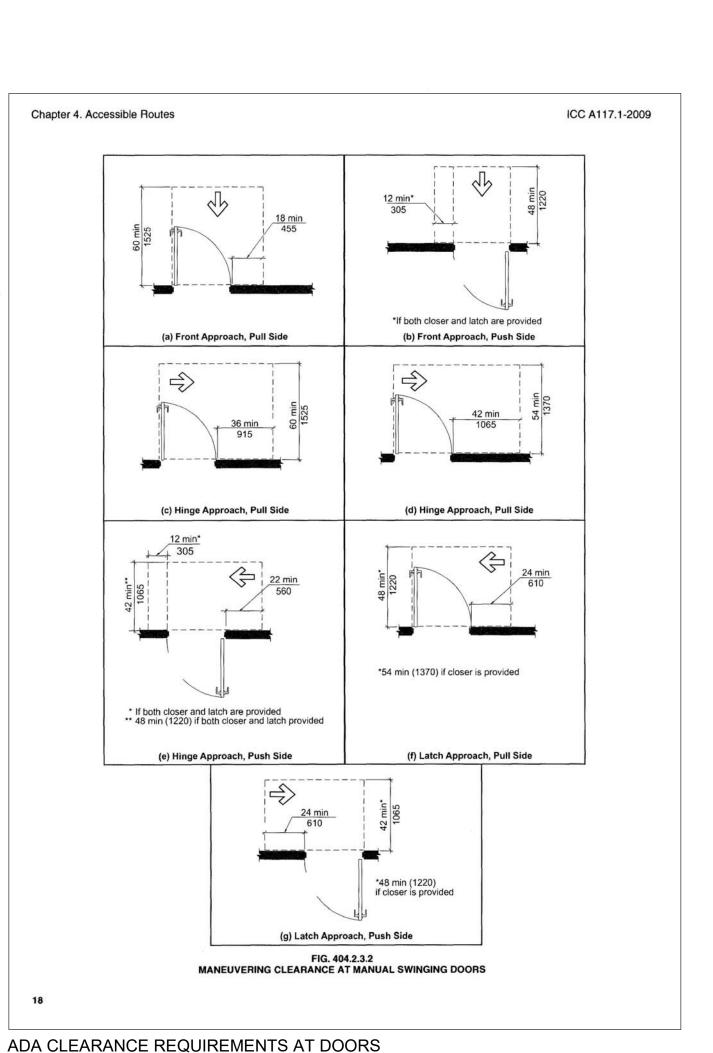
6. ACCESS PANELS SHALL PREFERABLY OCCUR ONLY IN GYPSUM BOARD WALLS OR PLASTER CEILINGS WHERE INDICATED ON THE DRAWINGS. A. ACCESS TO MECHANICAL, ELECTRICAL, TECHNOLOGY, AND

> DRAWING STAGE. D. PROVIDING ADDITIONAL ACCESS PANELS SHALL BE DISCARDED BY THE A/E AND THE OWNER'S REPRESENTATIVE. SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE

OFF SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR WHO DID NOT PROPERLY IDENTIFY THEIR WORK REQUIREMENTS, OR INSTALLED THEIR WORK WITHOUT PROPER COORDINATION.

8. UPDATED COORDINATION DRAWINGS THAT REFLECT AS-BUILT CONDITIONS MAY

9. REFER TO PROJECT SPECIFICATIONS RELATED TO EACH TRADE FOR MORE DETAILED REQUIREMENTS RELATED TO COORDINATION ACTIVITIES.



GENERAL NOTES - ALL DRAWINGS

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS AND SCOPE OF WORK. 2. DRAWINGS ARE BASED ON ORIGINAL RECORD DRAWINGS FOR THE EXISTING BUILDING. NOTWITHSTANDING THIS, THE CONTRACTOR IS TO VERIFY ALL EXISTING

PROJECT COMPLETION.

AND APPROVAL OF THE OWNER AND ARCHITECT.

HARDWARE AND FUNCTIONS TO REMAIN.

8. COORDINATE SCOPE OF WORK WITH ALL OTHER CONTRACTORS AND THE OWNER AT THE PROJECT SITE. SCHEDULE REMOVAL OF EQUIPMENT AND TECHNOLOGY

TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ADJACENT CONSTRUCTION SCHEDULED TO REMAIN. SEE STRUCTURAL DOCUMENTS FOR FURTHER DETAILS. 10. HAZARDOUS MATERIAL ABATEMENT IS NOT PART OF THE WORK SHOWN ON THESE DRAWINGS. OWNER WILL HIRE AN ABATEMENT CONTRACTOR TO REMOVE HAZARDOUS MATERIALS THAT MAY EXIST IN EXISTING BUILDING AREAS. COORDINATE REMOVAL OF WALLS, CEILINGS, FLOOR FINISHES AND OTHER OBJECTS THAT MAY

CONTAIN HAZARDOUS MATERIALS WITH ABATEMENT CONTRACTOR. NOTIFY ABATEMENT CONTRACTOR IMMEDIATELY IF HAZARDOUS MATERIALS ARE

11. ALL DRAWINGS ARE ISSUED AS PDF FILES, BUT ALL VIEWS ARE TO BE READ AT THE SCALE INDICATED, AND NOT RELIED UPON AT SCALES LARGER THAN INDICATED WHEN ZOOMING INTO A DETAIL, SUCH AS A WALL SECTION. PLEASE REFER TO DETAIL CALLOUTS FOR ASSEMBLY DETAILS.

GENERAL COORDINATION NOTES

IN NATURE AND DO NOT SHOW EVERY FITTING AND APPURTENANCE FOR EACH UTILITY. COORDINATION DRAWINGS ARE NOT SHOP DRAWINGS AND SHALL NOT

COORDINATION PROCESS.

3. THE CONTRACTORS SHALL USE THE COORDINATION PROCESS TO IDENTIFY THE PROPER SEQUENCE OF INSTALLATION OF ALL UTILITIES ABOVE CEILINGS AND IN OTHER CONGESTED AREAS, TO ENSURE AN ORDERLY AND COORDINATED END RESULT, AND TO PROVIDE ADEQUATE ACCESS FOR SERVICE AND MAINTENANCE. 4. THE A/E RESERVES THE RIGHT TO DETERMINE SPACE PRIORITY OF EQUIPMENT IN THE EVENT OF SPATIAL CONFLICTS OR INTERFERENCE BETWEEN EQUIPMENT, PIPING, CONDUIT, DUCTS, AND EQUIPMENT PROVIDED BY THE TRADES.

5. CHANGES TO THE CONTRACT DOCUMENTS THAT ARE NECESSARY FOR SYSTEMS INSTALLATION AND COORDINATION SHALL BE BROUGHT TO THE ATTENTION OF

OTHER ITEMS LOCATED ABOVE THE CEILING SHALL BE THROUGH ACCESSIBLE LAY-IN CEILING TILE AREAS. B. POTENTIAL LAYOUT CHANGES SHALL BE MADE TO AVOID ADDITIONAL ACCESS PANELS. C. ADDITIONAL ACCESS PANELS SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE A/E AT THE COORDINATION

CONSIDERED AFTER OTHER ALTERNATIVES ARE REVIEWED AND E. WHEN ADDITIONAL ACCESS PANELS ARE REQUIRED, THEY

7. CONFLICTS THAT RESULT AFTER THE COORDINATION DRAWINGS ARE SIGNED

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin.

DANIEL JACK' POLING A-8984 MINNEAPOLIS,

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel

Interiors and 612 342 2216 fax Urban Design www.msrdesign.com

Vierbicher Associates, Inc.

Ken Saiki Design, Inc.

303 South Paterson Street, Suite 1

Structural Engineer, Technology and A/V

MEP Associates, LLC

Fire Protection Engineer and Code Consultant

Summit Fire Consulting

Rough Brothers, Inc.

860 Blue Gentian Road, Suite 175

Civil Engineer

999 Fourier Drive, Suite 201

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608.826.0532 tel

Landscape Architect

Madison, WI 53703

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651.251.1880 tel

Greenhouse Design

5513 Vine Street

513.242.0310 tel

Cincinnati, OH 45217

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ARCHITECT SEAL

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575 Minnehaha Ave West St. Paul, MN 55103

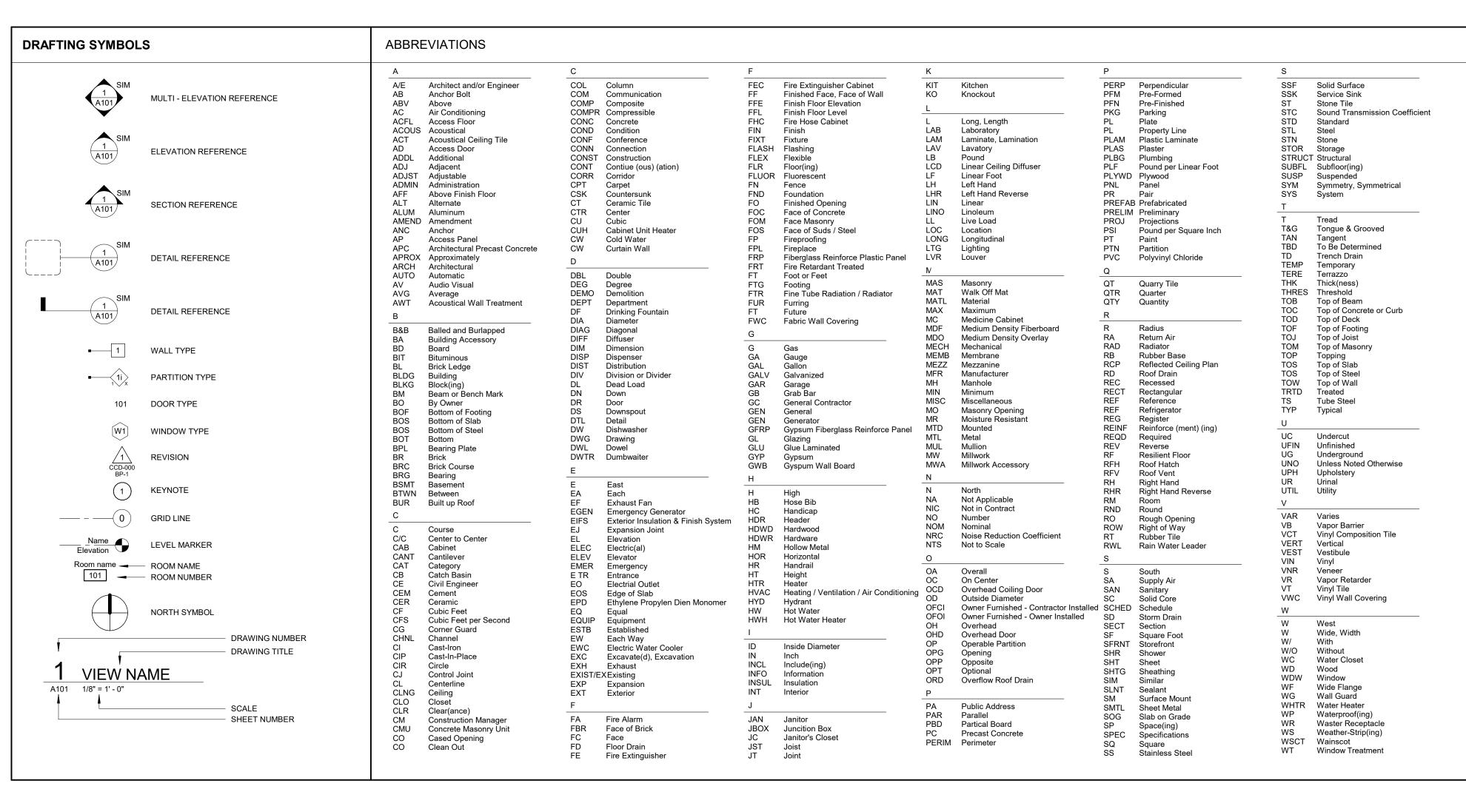
1800 Deming Way, Suite 200 Middleton, WI 53562

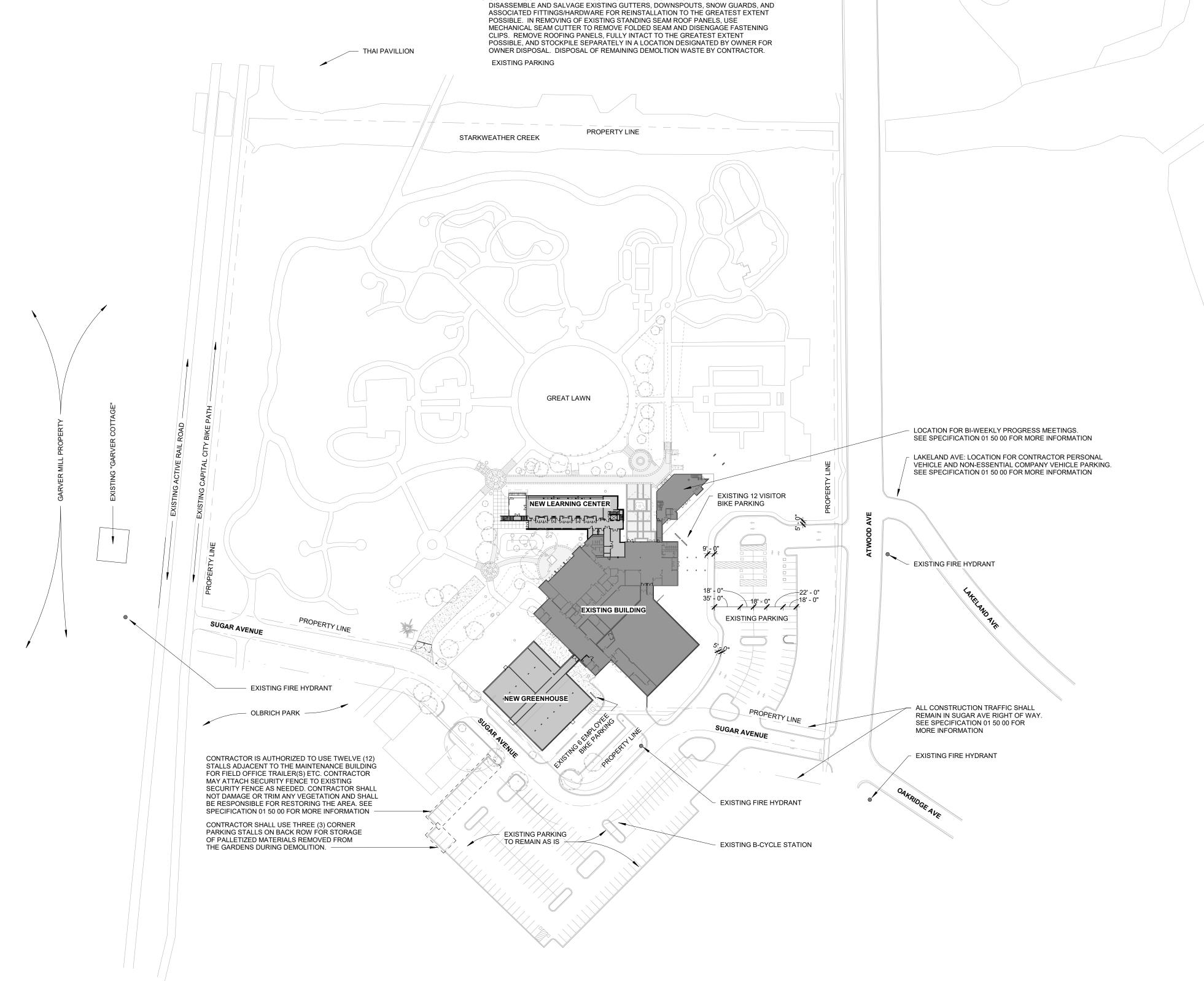
608.251.3600 tel

Print Names: Jack Poling Date: JUNE 4, 2018 License No: A-8984 MARK DATE DESCRIPTION
09.29.2017 SCHEMATIC DESIGN SUBMISSION 12.08.2017 DD PRICING SET 01.10.2018 DESIGN DEVELOPMENT SUBMISSION 01.17.2018 UDC SUBMISSION 03.30.2018 70% CD PRICING ISSUE 04.06.2018 PARKING LOT AND SITE PLAN SUBMISSION 05.04.2018 90% CD SUBMISSION 06.01.2018 BID ISSUE 06.04.2018 PERMIT ISSUE PROJECT NO. 2017016 **BID DOCUMENTS**

SHEET INDEX, **GENERAL NOTES** AND MATERIALS

> EXHIBIT A G000





SITE DEMO AND NEW WORK NOTES

1. ALL WORK OUTSIDE OF PROPERTY LINE WILL BE BY CITY OF MADISON UNLESS NOTED

2. NOTIFY OWNER AND/OR OBG AND ARCHITECT OF ANY INCONSISTENCIES BETWEEN

3. NOTIFY ALL RELEVANT UTILITY COMPANIES AND OBG PRIOR TO EXCAVATION OR

OR NEW CONSTRUCITON OPERATIONS TO CITY OF MADISON STANDARDS.

5. REFER TO C100 FOR ADDITIONAL SITE DEMOLITION AND PROTECTION SCOPE.

6. REFER TO C-SERIES FOR CIVIL ENGINEERING, L-SERIES FOR LANDSCAPE AND

7. TREES TO BE RETAINED AND PROTECTED BY CONTRACTOR SHALL INCLUDE ALL OF

HORTICULTURALIST BEFORE CUTTING OR TRIMMING ANY BRANCHES OR ROOTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING EXISTIN CONCRETE

8. CITY OF MADISON PARKS DIVISION WILL REMOVE TREES PRIOR TO CONSTRUCTION

9. OLBRICH STAFF WILL REMOVE ALL EXISTING BENCHES, PORTABLE PLANTERS,

LANDSCAPE FENCING, FEATURE LIGHTING AT GRADE AND OTHER MOVEABLE

10. EXISTING FIBER OPTIC LINE (LOCATION INDICATED IS APPROXIMATE) CONNECTS

EXISTING F.O. PANEL IN CLOSET (MDF-1) IN STAFF OFFICES ZONE TO GARVER

LINE WITH MINIMAL LOSS OF SERVICE. GC TO PROVIDE OBG STAFF MINIMUM 3

WORKING DAYS NOTICE FOR ANY LOSS OF SERVICE. LOSS OF SERVICE NOT TO

11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OF MADISON STANDARD

SURFACES OUTSIDE OF THE CONSTRUCTION LIMITS THAT ARE AFFECTED BY

12. THE CONTRACTOR SHALL PERFORM STREET SWEEPING ON ALL STREETS OR PAVED

RESULT IN MUD TRACKING OR SILTATION. STREET SWEEPING SHALL REMOVE ALL

LOOSE MATERIAL TO THE SATISFACTION OF THE CONSTRUCITON ENGINEER. ALL

13. A SILT SOCK SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION

LIMITS TO PROTECT DOWN-SLOPE AREAS FROM SILT-LADEN RUNOFF GENERATED

14. PROVIDE INLET PROTECTIONPER BPW SPEC 210.5(c) AND WISCONSIN DNR TECHNICAL

STEPS AND SIMILAR STRUCTURES, WHERE PORTIONS OF THE EXISTING STRUCTURE IS

15. IN REMOVING PAVEMENT, CURB, CUTTER, SIDEWALK, CROSSWALKS, DRIVEWAYS,

TO BE LEFT IN THE SURFACE OF THE FINISHED WORK, THE STRUCTURE TO BE

16. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING CONSTRUCTION

SHALL ALLOW FOR CONSTRUCTION-RELATED ENTRY AND EGRESS AND FOR

ENGINEERING AND OLBRICH STAFF PRIOR TO CONSTRUCTION OPERATIONS

18. COPPER ROOFING AND ROOF ACCESSORIES TO BE CAREFULLY REMOVED.

AND DO NOT RESULT IN A COMPROMISED OR CRUMBLING EDGE.

REMOVED IS TO BE SAW CUT TO FULL DEPTH AND CHIPPED TO A TRUE LINE WITH A

REMOVAL SHALL BE MADE TO PROVIDE FOR PROPER GRADES AND CONNECTIONS TO

THE NEW WORK. ENSURE THAT ALL NECESSARY SAW CUTS ARE CLEAN ADN SMOOTH,

ACTIVITIES, EXCEPT FOR WITHIN THE CONSTRUCTION ZONE. CONSTRUCTION FENCING

EMERGENCY EXITING FOR BUILDING OCCUPANTS. ACCESS INTO THE SITE OR BUILDING

THROUGH CONSTRUCTION FENCING FOR ANYTHING OTHER THAN CONSTRUCTION-

17. ANY GC/SUBCONTRACTOR SITE OPERATIONAL AND LOGISTICS INFORMATION SHOWN

ON ANY SITE PLAN DRAWINGS IS TO BE VERIFIED FOR CONTENT AND SCOPE WITH CITY

FACE PARALLEL WITH THE SURFACE OF THE STRUCTURE TO REMAIN. SUFFICIENT

FROM DISTURBED WORK AREAS PER CITY OF MADISON BPW SPEC 210.5(b).

CONSTRUCTION EQUIPMENT, HAULING OR RELATED CONSTRUCTION ACTIVITIES THAT

AFFECTED STREETS OR PAVED SURFACES BEYOND THE CONSTRUCITON LIMITS SHALL

COTTAGE. LINE MUST REMAIN ACTIVE AS EITHER TEMPORARY OR NEW PERMANENT

EXCEED 48 HOURS ON ANY TWO DAYS OF THE WEEK (MON THRU SUN). SEE T-SERIES

SLABS, AND SHALL PROTECT ALL EXPOSED ROOT SYSTEMS WHILL BACKFILLING AND

THE FOLLOWING: BRANCHES AND LIMBS, TREE TRUNK, ALL ROOTS AND ROOT

GRADING, AND I-SERIES SHEETS FOR IRRIGATION NEW WORK SCOPE.

SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO CONTACT THE STAFF

UTILITIES PRIOR TO COMMENCING WORK.

INSTALLING NEW PAVERS AS NECESSARY.

COMMENCEMENT DATE (EXCLUDING STUMP REMOVAL).

SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

BE CLEAN AT THE END OF EACH WORK DAY.

RELATED REASONS SHALL NOT BE ALLOWED.

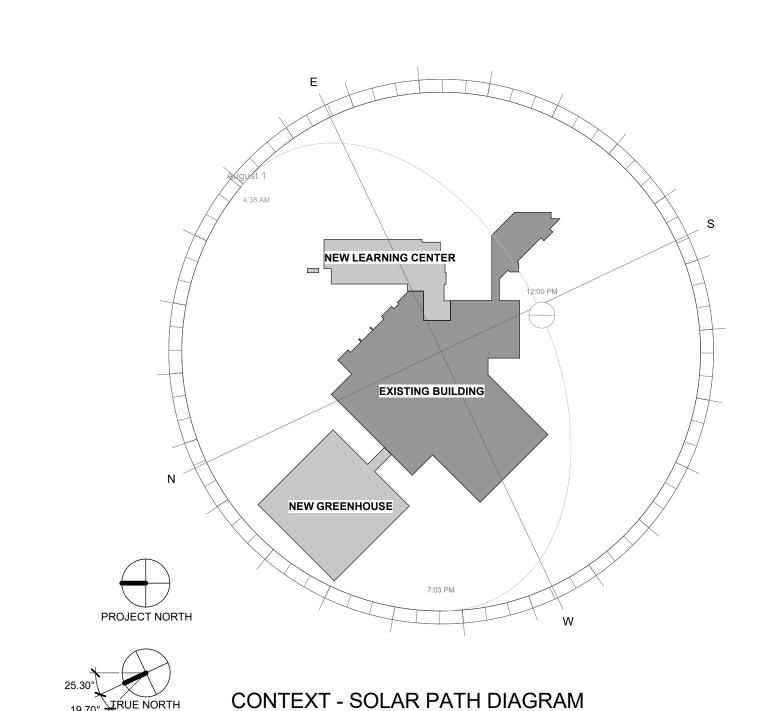
STANDARD No. 1066, TYPE D.

FEATURES PRIOR TO CONSTRUCTION COMMENCEMENT DATE.

DRAWINGS AND ACTUAL CONDITIONS DISCOVERED DURING DEMO OR NEW WORK.

BELOW-GRADE WORK. DETERMINE EXACT LOCATION AND DEPTH OF BELOW-GRADE

4. GENERAL CONTRACTOR SHALL REPLACE EXISTING MATERIAL DAMAGED DURING DEMO





CONTEXT - SITE CONTEXT PLAN

WALL AND PARTITION KEY NEW WALLS AND PARTITIONS EXISTING WALLS AND PARTITIONS

=== WALLS AND PARTITIONS TO BE REMOVED

OLBRICH PARK BOAT LAUNCH

3401 ATWOOD AVE

Interiors and 612 342 2216 fax 1 HOUR RATED FIRE WALL Urban Design www.msrdesign.com 2 HOUR RATED FIRE WALL Civil Engineer Vierbicher Associates, Inc.

- AUTHORIZED AREA FOR TOP SOIL STORAGE.

ENTRANCE, MAINTAINING SILT FENCE AND

PAVEMENT CLEANING UNTIL TOP SOIL HAS

SIZING, SILT FENCE, CONSTRUCTION

BEEN RETURNED TO PROJECT.

CONTRACTOR SHALL BE RESPONSIBLE FOR

Landscape Architect Ken Saiki Design, Inc.

999 Fourier Drive, Suite 201

Madison, WI 53717

608.826.0532 tel

608.251.3600 tel

608.223.9600 tel

651.379.9120 tel

Architecture 612 375 0336 tel

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5513 Vine Street Cincinnati, OH 45217 513.242.0310 tel

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin. ARCHITECT SEAL

5



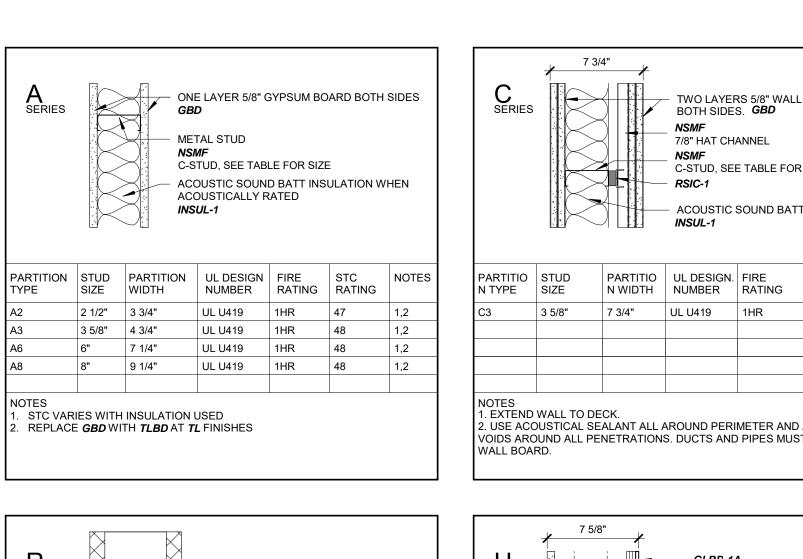
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BID DOCUMENTS

SITE CONTEXT AND SYMBOLS

> **EXHIBIT A** G001



OR S	BOARD BIZE INSULATI	ON.	SERIES			1/4" STEEL P 3/4" PLYWOO ACOUSTIC S WHEN ACOU ONE LAYER S GBD	DD <i>PWD-1</i> OUND BAT ISTICALLY I 5/8" GYPSU	T INSULATIO RATED IN S M BOARD	
	STC RATING	NOTES	PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN NUMBER	FIRE RATING	STC RATING	NOTES
	64	1,2	D2	2 1/2"	5"	UL U419	2 HR	50	1
			D3	3 5/8"	6"	UL U419	2 HR	50	1
			D6	6"	8 1/2"	UL U419	2 HR	50	1
	T ANNUL NOT TOL		NOTES 1. STC VARIE	ES WITH I	INSULATION U	SED		1	1

		NSI	TAL STUD MF STUD, SEE TAB	LE FOR SIZ	E	
PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN NUMBER	FIRE RATING	STC RATING	NOTES
F1	1 5/8"	2 1/4"				1
F2	2 1/2"	3 1/8"				1
F3	3 5/8"	4 1/4"				1
F6	6"	6 5/8"				1

M SERIES			GBD METAL PER M	STUD BRA	GYPSUM BO ACES TO BA IRER STANI	CK-UF
	///	' -				
	1	P.WIDTH	_			
PARTITION TYPE	STUD SIZE	P.WIDTH PARTITION WIDTH	UL DESIGN NUMBER	FIRE RATING	STC RATING	NOT
		PARTITION				NOT
TYPE	SIZE	PARTITION WIDTH	NUMBER	RATING	RATING	
TYPE M1	SIZE 1 5/8"	PARTITION WIDTH SEE PLAN	NUMBER NA	RATING NA	RATING NA	
TYPE M1 M2	SIZE 1 5/8" 2 1/2"	PARTITION WIDTH SEE PLAN SEE PLAN	NUMBER NA NA	RATING NA NA	RATING NA NA	

GENERAL NOTES

CRUSHING OF PARTITION.

PARTITION.

GO TO DECK UNLESS NOTED OTHERWISE.

SOME PARTITIONS DESCRIBED HERE MAY NOT BE USED ON THIS PROJECTS. SEE PLANS FOR SPECIFIC PARTITION TYPES USED.

1. INTERIOR PARTITIONS TYPES TO BE INDICATED BY THIS SYMBOL ON FLOOR ACOUSTICAL RATED FIRE RATING

FLOOR DECK ABOVE UNLESS NOTED OTHERWISE. PROVIDE REQUIRED

5. AT NON-RATED PARTITIONS IN ROOMS WITH FINISHED CEILING, GYPSUM

6. PENETRATIONS IN FIRE RATED OR ACOUSTICAL RATED PARTITIONS AND

PARTITION MANUFACTURER'S WRITTEN RECOMMENDATIONS OR U.L.

7. REFER TO SPEC FOR BACKER AT PARTITIONS SCHEDULED TO RECEIVE CERAMIC TILE. PROVIDE TILE BACKER BOARD TO PARTITIONS IN SHOWERS.

BOARD SHALL NOT REDUCE FIRE OR ACOUSTICAL RATINGS FOR ANY

REQUIREMENTS FOR FIRE TEST AND ACOUSTICAL TEST RATINGS.

HIGH MOISTURE AREAS OR SIMILAR AREAS AND WHERE NOTED.

BOARD TO GO 6" ABOVE CEILING UNLESS NOTED OTHERWISE. AT NON-

RATED PARTITIONS IN ROOMS WITHOUT FINISH CEILINGS, GYPSUM BOARD TO

CONNECTIONS TO THESE PARTITIONS BY OTHER PARTITIONS SHALL BE PER

INSTALLATION OF MOISTURE RESISTANT GYPSUM BOARD OR TILE BACKER

CLOSURE TO MAINTAIN FIRE OR ACOUSTICAL RATING. PROVIDE APPROPRIATE DEFLECTION JOINT AT TOP OF PARTITION TO ELIMINATE

- 9. THERMALLY SEPARATED PARTITIONS SHALL HAVE VAPOR BARRIER AND THERMAL INSULATION AS SPECIFIED UNLESS OTHERWISE NOTED. 10. VERIFY WITH STRUCTURAL ALL NON-BEARING MASONRY PARTITION 2. GAUGE, SPACING, AND PERFORMANCE REQUIREMENTS OF METAL STUDS TO THAT ARE NOT ADEQUATELY BRACED BY FIXED ELEMENTS PRIOR TO BE DETERMINED BY SPECIFICATIONS UNLESS OTHERWISE NEEDED
- ERECTION. 3. TYPE "X" GYPSUM BOARD REQUIRED AT RATED PARTITIONS ONLY. 11. PROVIDE A MINIMUM OF 1'-0" OF SOLID MASONRY BETWEEN PENETRATIONS IN MASONRY PARTITIONS UNLESS OTHERWISE NOTED. 4. FIRE RATED OR ACOUSTICALLY RATED PARTITIONS TO EXTEND TO ROOF OR
 - 12. REFER TO STRUCTURAL DRAWINGS FOR INTERIOR STRUCTURAL PARTITIONS.

8. ACOUSTICALLY RATED PARTITIONS SHALL HAVE CONTINUOUS SOUND

NOTED. STAGGER JUNCTION BOXES A MINIMUM OF 2'-0" BETWEEN

BATT INSULATION AND ACOUSTICAL CAULKING UNLESS OTHERWISE

PENETRATIONS AT ACOUSTICALLY RATED OR FIRE RATED PARTITIONS

13. PROVIDE BLOCKING AND BACKER SUPPORT FOR ALL EQUIPMENT ATTACHMENT AND MOUNTING. COORDINATE LOCATION OF BLOCKING AND BACKER MATERIAL WITH OWNER AND CONTRACTOR SUPPLIED EQUIPMENT PRIOR TO CONSTRUCTION OF PARTITION. SEE FURNITURE PLAN FOR FURNITURE LOCATIONS THAT REQUIRE BLOCKING.

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

Architecture 612 375 0336 tel

Interiors and 612 342 2216 fax

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly

Licensed Architect under the Laws of the State of Wisconsin.

DANIEL JACK

POLING A-8984

MINNEAPOLIS,

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ARCHITECT SEAL

Print Names: Jack Poling

Date: JUNE 4, 2018 License No: A-8984

 MARK
 DATE
 DESCRIPTION

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Urban Design www.msrdesign.com

Vierbicher Associates, Inc.

14. STC RATINGS INDICATED MINIMUM WALL REQUIREMENTS WITH SOUND BATT INSULATION. REFER TO GYPSUM ASSOCIATION BULLETIN #500 AND THE UL MANUAL FOR DETAILED CONSTRUCTION TECHNIQUES TO ACHIEVE STC RATINGS.

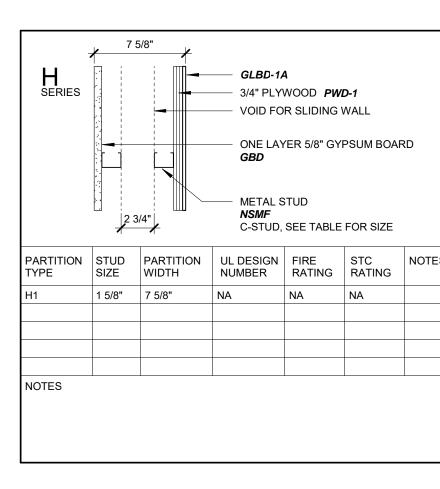
R			CMU	RETE MAS(ONRY UNIT SIZE	S
PARTITION	BLOCK	WIDTH	UL DESIGN.	FIRE	STC	N
TYPE	ACTUAL	NOMINAL	NUMBER	RATING	RATING	
R4	3 5/8"	4"	NA	NA	43 - 48	
R6	5 5/8"	6"	UL U906	2 HR	44 - 55	1
	7 5/8"	8"	UL U905	2 HR	46 - 62	1
R7			UL U904	3 HR	46 - 62	1
R7 R8	7 5/8"	8"	UL 0904	01111	TO 02	

2. CLASS D-2 BLOCK REQ'D FOR FIRE RATING 3. CLASS C-3 BLOCK REQ'D FOR FIRE RATING

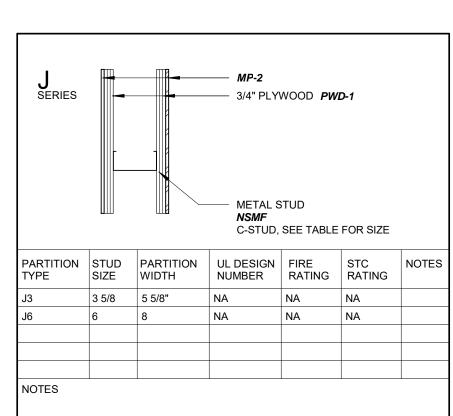
G002 1 1/2" = 1'-0"

4 WALL TYPES - PARTITION

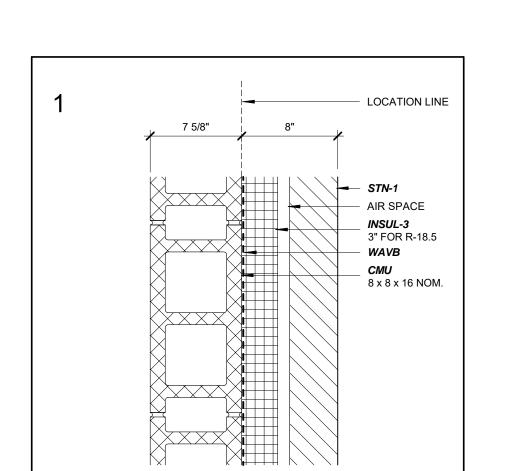
4. CORES MUST BE FILLED TO ACHIEVE 4-HR FIRE RATING

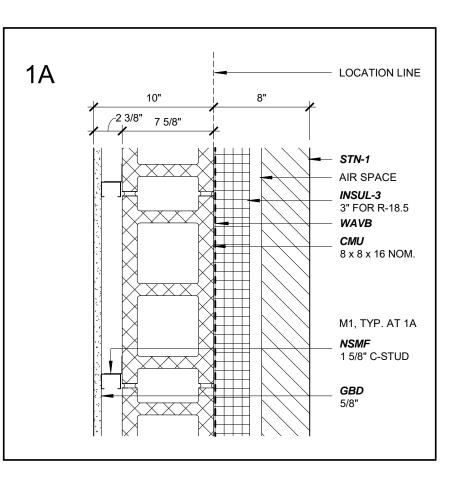


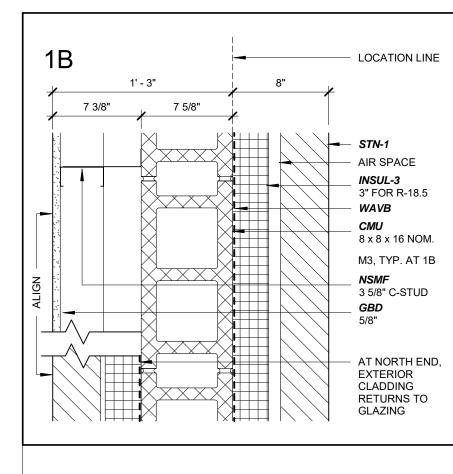
SERIES			METAL S NSMF	WOOD <i>PW</i> STUD SEE TABLE		
PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN NUMBER	FIRE RATING	STC RATING	NOTE
J3	3 5/8	5 5/8"	NA	NA	NA	
J6	6	8	NA	NA	NA	
NOTES						
NOTES						

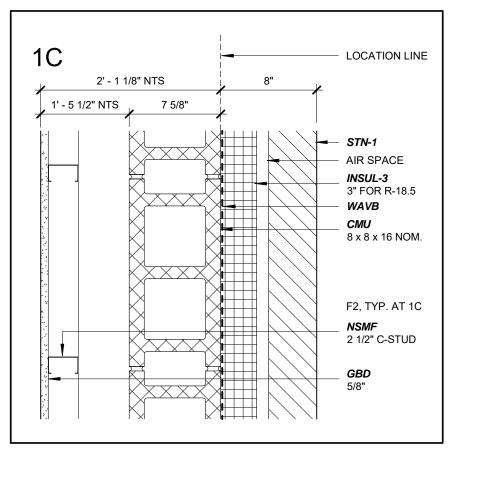


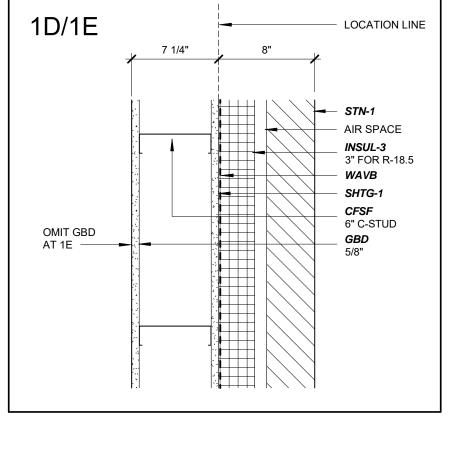
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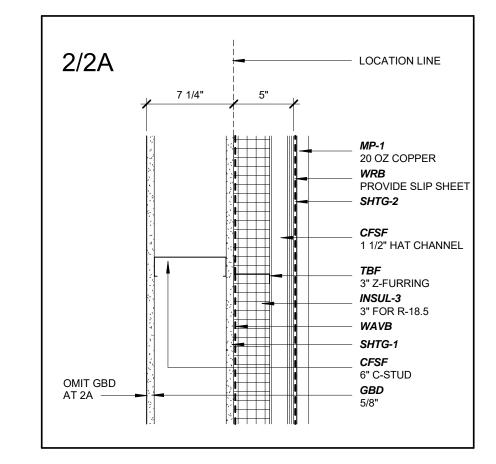


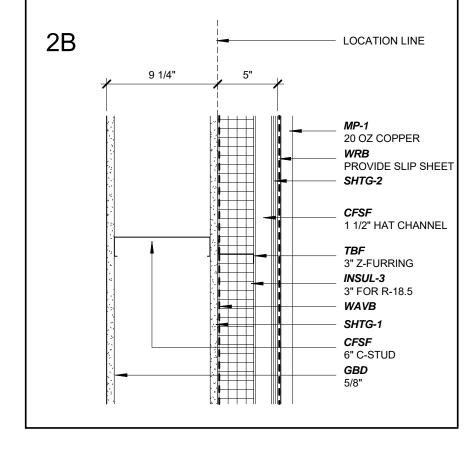


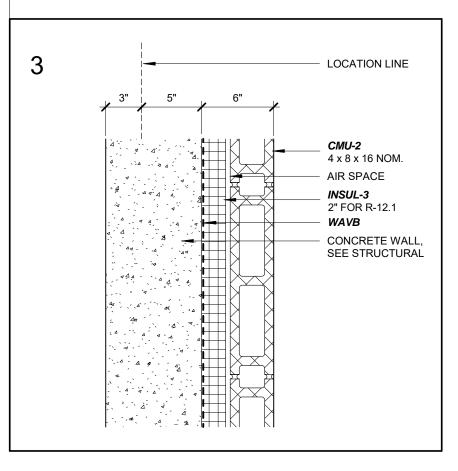


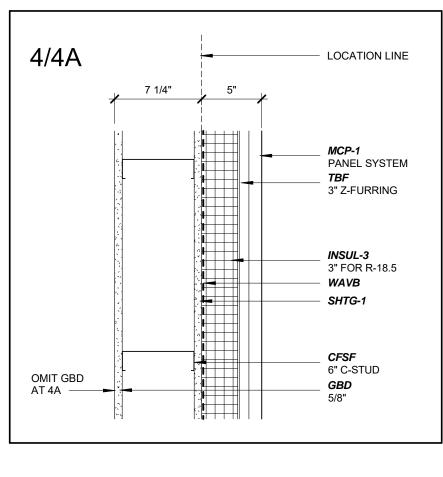


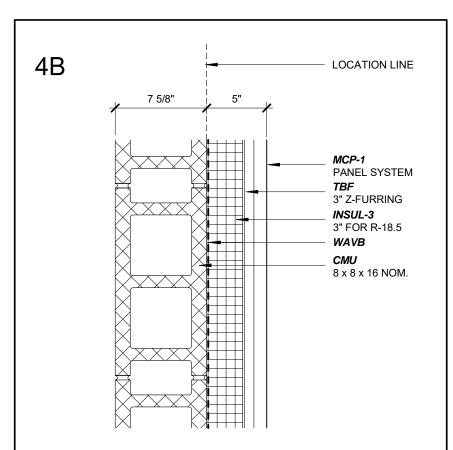


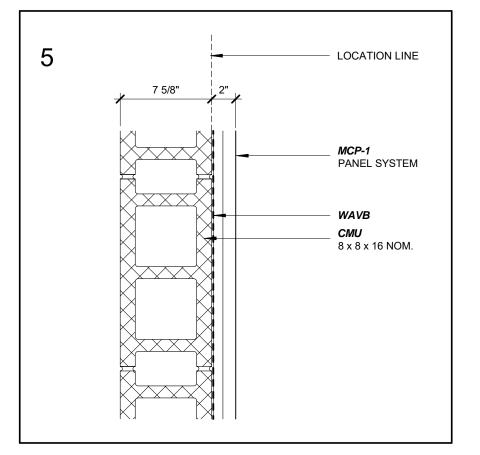




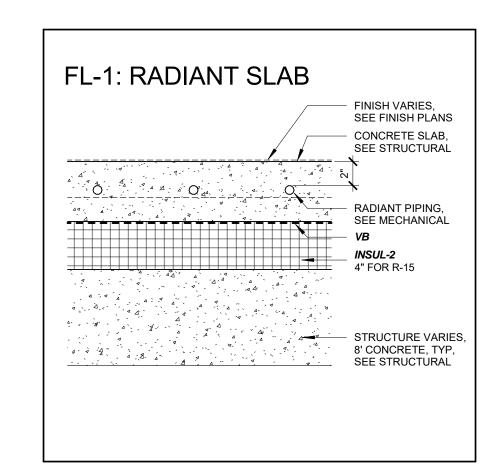


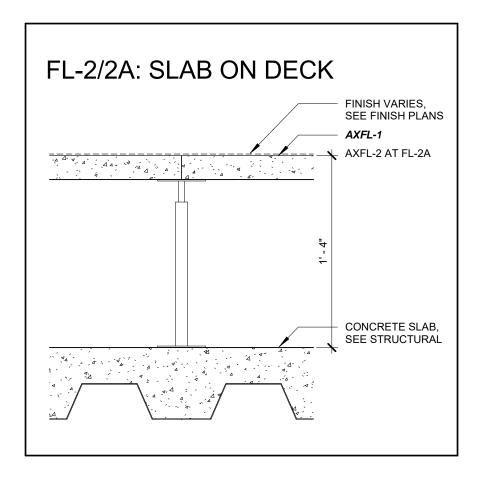


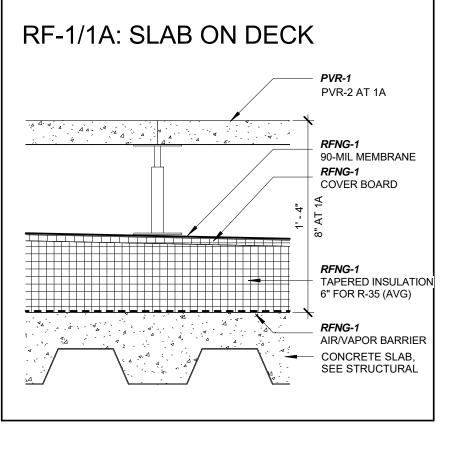


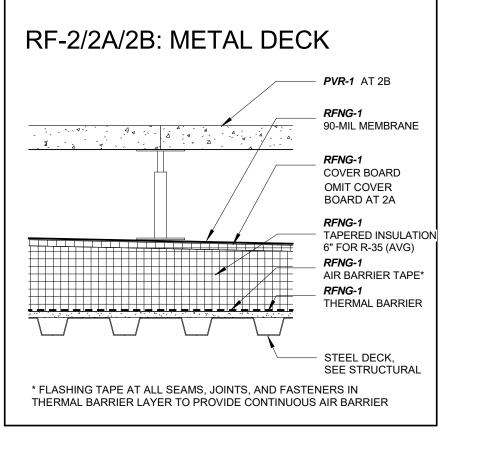


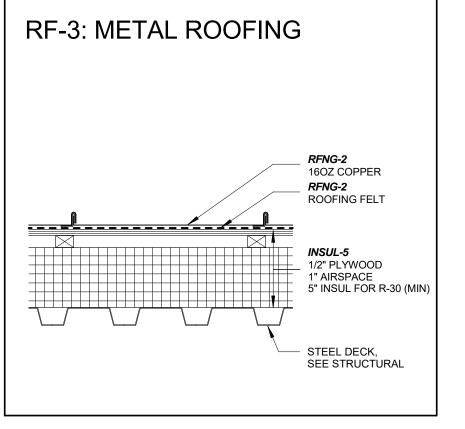
WALL TYPES - EXTERIOR G002 1 1/2" = 1'-0"

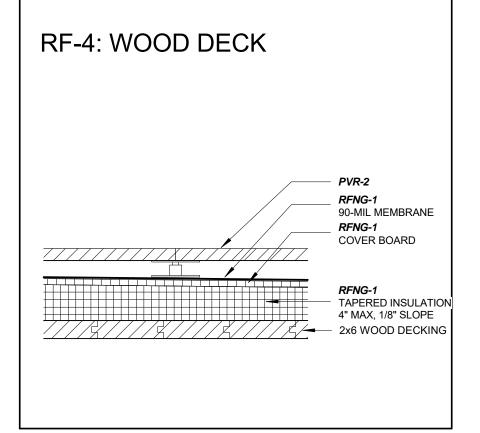












3 ROOF TYPES

TYPES AND SYSTEMS

2017016

BID DOCUMENTS

EXHIBIT A G002