# HEARTLAND DENTAL WINTER GARDEN **AVALON & MARSH RD** WINTER GARDEN, FL 34787

# **PROJECT NOTES**

**GENERAL NOTES** 

- DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION.
- . ALL WORK SHALL BE IN COMPLIANCE WITH THE STANDARD BUILDING RECOGNIZED INDUSTRY STANDARDS. CRAFTSMANSHIP STANDARDS IN THE AREA, ALL MANUFACTURER RECOMMENDATIONS, AND ALL OTHER APPLICABLE CODES.
- PROVIDE ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED CONFORMING TO THE AMERICANS WITH DISABILITIES ACT OF 2010. TO THE BEST OF OUR KNOWLEDGE, THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE **2020 FAC** AND THE RULES AND REGULATIONS OF NEW CONSTRUCTION PER ADA
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS UNLESS A WRITTEN NOTIFICATION FROM THE OWNER OR ARCHITECT TO THE CONTRARY IS RECEIVED.
- THE ARCHITECT DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THAT OUR ARCHITECTURAL WORK AND JUDGEMENT RENDERED MEETS THE STANDARDS OF CARE OF OUR PROFESSION.
- THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. IT SHAI BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF SUCH. WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD
- PROVIDE ILLUMINATED EXIT SIGNS WITH BATTERY BACKUP DESIGNATING EXITS AND WAYS OF TRAVEL THERETO.
- THE FLOOR ON BOTH SIDES OF AN INTERIOR DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR, FOR A DISTANCE ON EACH SIDE EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR.
- 10. DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING
- 11. EVERY INTERIOR AND EXTERIOR DOOR IN THE BUILDING SHALL BE PROVIDED WITH HANDICAP HARDWARE (LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED DEVICES, ETC.)
- 12. PROVIDE J-MOLDS AND CORNER BEADS AT THE EDGES OF ALL EIFS SYSTEMS AND GYPSUM BOARD. 13. PROVIDE CONTINUOUS BLOCKING IN ALL STUD WALLS THAT ARE TO RECEIVE GRAB BARS, TOILET
- 14. ALL METAL STUD GAUGE DESIGN SHALL BE AS REQUIRED BY PERFORMANCE AND AS INDICATED IN THE DRAWINGS.
- 15. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS AND OTHER FASTENING DEVICES.
- 16. WHERE MATERIAL FASTENERS ARE NOT INDICATED, PROVIDE AS SPECIFIED BY THE MATERIAL MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
- 17. ALL WALLS TO BE ANCHORED BY POWER ACTUATED FASTENERS.
- 18. USE ONLY 'LEAD-FREE' PIPE AND SOLDER FOR DOMESTIC WASTE SYSTEM (SAFE DRINKING WATER ACT OF 1986 AND S.S.P.C. SECTION 1210.1.4).
- 19. GENERAL CONTRACTOR SHALL TREAT THE SOIL BENEATH THE TENANT/SUITE SPACE WITH TERMITE POISON PER MANUFACTURER'S RECOMMENDATIONS.
- 20. ALL WOOD THAT IS IN DIRECT CONTACT WITH CEMENT, MASONRY OR EARTH SHALL BE PRESSURE TREATED. 21. BUILDING SIGNAGE IS TO BE PERMITTED UNDER SEPARATE COVER.

GYPSUM BOARD WALLS AND CEILINGS SHALL BE INSTALLED PER THE GYPSUM CONSTRUCTION HANDBOOK, 6TH EDITION. LEVELS OF FINISH PER THE FOLLOWING:

- LEVEL 1: IN CONCEALED SPACES, PLENUMS ABOVE CEILINGS, SERVICE CORRIDORS AND SPACES NOT OPEN TO PUBLIC VIEW
- LEVEL 2: IN WAREHOUSE AND STORAGE SPACES

PARTITIONS, ETC.

LEVEL 3: IN AREAS TO RECEIVE HEAVY TEXTURED WALL FINISHES, COMMERCIAL GRADE (HEAVY-DUTY) WALL COVERING

LEVEL 4: IN AREAS TO RECEIVE FLAT PAINTS, LIGHT TEXTURES, RESIDENTIAL (LIGHT-DUTY) WALL COVERING LEVEL 5: IN AREAS TO RECEIVE GLOSS, SEMI-GLOSS, OR ENAMEL PAINTS, UNTEXTURED FINISHES AND IN CRITICAL LIGHTING AREAS.

## FIRE PROTECTION NOTES

- FIRE BARRIER SHALL BE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL, FROM A FIRE BARRIER TO ANOTHER FIRE BARRIER. OR A COMBINATION THEREOF. INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING, INCLUDING INTERSTITIAL SPACES
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIRDUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS
- 10.1. THE SPACE BETWEEN PENETRATING ITEM AND FIRE BARRIER SHALL BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR UL 1479 FOR FIRE RATING (PER 714.4.1.2 & 714.5.1.2 FBC 2020 )
- 10.2. FIRE BARRIERS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH 2" STENCILING (AT 12" O.C.) ABOVE ANY DECORATIVE CEILING AND CONCEALED SPACES WITH THE FOLLOWING.
  - 10.2.1. FIRE/SMOKE BARRIER 10.2.2. PROTECT ALL OPENINGS
- 3. PROVIDE AT LEAST 1 CLASS ABC 5 POUND FIRE EXTINGUISHER TO BE MOUNTED WHERE READILY VISIBLE AND ACCESSIBLE. ADDITIONAL UNITS MAY BE REQUIRED TO MEET A 75 FT. TRAVEL DISTANCE LIMITATION. INSTALL IN ACCORDANCE WITH NFPA 101 OR PER LOCAL AUTHORITY.
- 4. WHEN A BEAM OR COLUMN BECOMES PART OF A FIRE RATED WALL OR CEILING IT MUST BE PROTECTED AND BE FIRE RATED AS IS THE WALL OR CEILING.

## INSULATION NOTES

- 1. PROVIDE FOIL-FACED BATT TYPE INSULATION IN EXTERIOR STUD WALLS TO MEET MINIMUM R-19
- 2. FLAMESPREAD AND SMOKE DEVELOPMENT RATINGS FOR BATT INSULATION VAPOR RETARDER SHALL BE AS FOLLOWS
- 2.1 FLAMESPREAD: 25 2.2 SMOKE DEVELOPMENT: 450

## JOINTS AND SEALANT NOTES

- 1. PROVIDE CONTINUOUS WATERPROOFING SILICONE BASED SEALANT AND BACKER ROD AT ALL STOREFRONT AND MASONRY JUNCTIONS AND TERMINATIONS. SEALANT SHALL MATCH STOREFRONT
- 2. PROVIDE CONTINUOUS SEALAND AND BACKER ROD AT ALL JUNCTIONS BETWEEN DISSIMILAR MATERIALS, I.E. BRICK TO EIFS ETC. DOW/CORNING #790
- 3. THE METAL EDGE SECUREMENT, EXCEPT GUTTER, SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH MOST CURRENT VERSION OF THE ANSI/SPRI EX-1, AMERICAN NATIONAL STANDARD FOR EDGE SYSTEMS USED WITH LOW-SLOPE ROOFING SYSTEMS
- 4. PROVIDE STANDING SEAM JOINTS AT ALL COPING SLICES FOR THERMAL EXPANSION. ALL SEAMS SHALL BE SEALED WITH DOW/CORNING #795 TYP.
- 5. PROVIDE CLOSURE END CAPS AND 90 DEGREE TRANSITIONS AT ALL EXPANSION JOINTS AND END WALL CAPS AT GRAVELSTOPS, TYP.
- 6. ALL METAL VENTS AND FLUES SHALL BE FLASHED WITH 'PORTALS PLUS' FLASHING BOOT, TYP. SEAL ALL METAL TO METAL CONNECTIONS WITH DOW/CORNING #795 (NOTE: NO CLEAR SILICONE SEALANT SHALL BE ALLOWED
- . ANCHOR ALL PRESSURE TREATED WOOD BLOCKING AT TOP OF MASONRY WALLS UNDER COPING WITH 3/8" DIA. HOT DIPPED GALVANIZED ANCHORS AT 32" O.C.
- 8. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKS SHALL BE CAULKED, GASKETED, WEATHER STRIPPED, OR OTHERWISE SEALED IN ACCORDANCE WITH SPECIFICATIONS
- 9. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PER ASTM C-840 AND GA-216-10

			STATEWIDE PRODU	CT APPROVAL SUBMIT	TAL	
MANUFACTURER	PRODUCT CATEGORY	APPROVAL NUMBER	PRODUCT MODEL NO. OR NAME	SERIES	ATTACHMENT METHOD	APPROVAL ENTITY
CARLISLE SYNTEC SYSTEMS	ROOFING	FL1601-R12	1601.1 EPDM SINGLE PLY ROOF SYSTEMS	SYSTEM NUMBER "W-1"	SURE-SEAL HP FASTENEER WITH SURE-SEAL INSULATION PLATE, MIN. 1-INCH WOOD PENETRATION, 1 PER 2.0 SQ. FT.	FLORIDA
DRYVIT SYSTEMS, INC.	WALL PANELS	FL2030-R11	2030.5 DRYVIT OUTSULATION SYSTEM	N/A	NO. 6 X 1-1/4" BUGLE HEAD SCREWS SPACED AT 4" O.C. ALONG VERTICAL STUDS	FLORIDA
CECO DOOR PRODUCTS	EXTERIOR DOORS	FL16355-R3	16355.2 FLUSH SINGLE COMMERCIAL STEEL DOORS	ASSEMBLY 6	(4) T4A3386 NRP 4-1/2" X 4-1/2" HINGES	FLORIDA
YKK AP AMERICA	EXTERIOR DOORS	FL12892-R6	12892.3 35D OUTSWING SYSTEM (HVHZ) (NON-IMPACT)	STOREFRONT DOORS	(3) PAIR BUTTS - OFFSET PIVOTS BY DOOR SUPPLIER	FLORIDA
YKK AP AMERICA	PANEL WALLS	FL12926-R8	12926.2 YES 40 FI ALUMINUM STOREFRONT SYSTEM (NON- HVHZ) (NON-IMPACT)	INSULATED STOREFRONT SYSTEM	1/4" DIA. TAPCON OR 1/4" DIA. ULTRACON THRU 1X BUCKSINTO MASONRY WITH 1-1/4" EMBED.	FLORIDA
MAYNE COATINGS CORP.	PANEL WALLS	FL20075-R3	20075.1 LONGBOARD SIDING	LONGBOARD SIDING	THE SIDING IS ATTACHED USING QUICK-SCREEN CLIPS WITH 2 INCH LONG #8 CORROSION RESISTANT SCREWS THROUGH THE SHEATHING INTO THE STUDS AT A SPACING OF 16 INCHES ON CENTER.	FLORIDA

# **DESIGN SUMMARY**

SYNOPSIS: THE SCOPE OF WORK CONSISTS OF GROUND UP BUILDING TO BE LOCATED IN WINTER GARDEN, FL. ALL NEW CONSTRUCTION WILL MATCH THAT ALLOWED IN TYPE II-B CONSTRUCTION.

\*PER FBC 303.1.1 & 303.1.2, ALL ROOMS HAVING LESS THAN 50 PEOPLE AND HAVING NO MORE THAN 750 SQ. FT. SHALL BE CLASSIFIED AS

OCCUPANCY CLASSIFICATION: FBC CLASSIFICATION - BUSINESS\* (DENTAL OFFICE)

SUPPORT SPACE FOR BUSINESS OCCUPANCY.

OCCUPANT LOAD: 4,200 SQ. FT. / 150 SF/PERSON = 28 PERSONS

**BUILDING CONSTRUCTION:** 

TENANT AREA: 4,200 SF (GROSS), 3,970 SF (NET)

SPRINKLERED: NO

EGRESS WIDTHS:

PLUMBING CALCULATIONS

# REQUIRED: 1 MALE, 1 FEMALE

# REQUIRED: 1 MALE, 1 FEMALE

CONTACTS

DESIGN/PERMIT CONTACT: VICTORIA HUGHES

CONSTRUCTION CONTACT: HEATHER COACH

DRINKING FOUNTAINS - 1 PER 100

# REQUIRED: 1

**# PROVIDED:** 

# REQUIRED: 1

# PROVIDED: 1

HEARTLAND DENTAL

EFFINGHAM, IL 62401

PHONE: (513) 262-7113

PHONE: (863) 242-7249

DEVELOPER WMG DEVELOPMENT

EFFINGHAM, IL 62401

PHONE: (217) 690-5578

2315 BELLEAIR ROAD

1200 NETWORK CENTRE DRIVE

1200 NETWORK CENTER DR., STE 3

FISHER AND ASSOCIATES, LLC

CLEARWATER, FLORIDA 33764 PHONE: (727) 443-4436 FAX: (727) 531-6653

RUCTURAL ENGINEER

5706 S. MACDILL AVE. TAMPA, FLORIDA 33611 PHONE: (813) 835-5311 FAX: (813) 835-5503

MECHANICAL ENGINEERS COLWILL ENGINEERING 4750 EAST ADAMO DRIVE

TAMPA, FLORIDA 33605 PHONE: (813) 241-2525 FAX: (813) 241-2424

ELECTRICAL ENGINEERS COLWILL ENGINEERING 4750 EAST ADAMO DRIVE TAMPA, FLORIDA 33605 PHONE: (813) 241-2525 FAX: (813) 241-2424

CENTER FOR INNOVATIVE STRUCTURES

SERVICE SINK

FIRE ALARM: NO

LIFE SAFETY CODE CLASSIFICATION - BUSINESS (DENTAL OFFICE)

CONSTRUCTION TYPE: TYPE II-B (FBC TABLE 503) - NON - SPRINKLED

28 PERSONS \* 0.2 IN/PERSON = 5.6 INCHES REQUIRED, 102 INCHES PROVIDED

# PROVIDED: 1 MALE, 1 FEMALE, 1 UNISEX (EMPLOYEE ONLY)

# PROVIDED: 1 MALE, 1 FEMALE, 1 UNISEX (EMPLOYEE ONLY)

WATER CLOSETS - 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORIES - 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

APPROVAL DATE
10/13/2020
04/20/2021
06/20/2023
08/11/2022
04/13/2022

11/03/2022

KPM FRANKLIN 630 HAZELTINE NATIONAL DRIVE, SUITE 118 ORLANDO, FL 32822 PHONE: (407) 410-8624 FAX: (407) 554-4059

CIVIL ENGINEERS

APPLICABLE CODES BUILDING: PI UMBING: MECHANICAL: ELECTRICAL: ACCESSIBILITY: FIRE PROTECTION: ENERGY:

OCCUPANCY: CONSTRUCTION TYPE: ALLOWABLE BUILDING HEIGHT: ALLOWABLE NUMBER OF STORIES: 3 STORIES (TABLE 504.4) ALLOWABLE AREA: ACTUAL AREA:

GROUP B (BUSINESS): (FBC - CHAPTER 3) TYPE II-B (FBC TABLE 503) - NON-SPRINKLED 55 FEET (TABLE 504.3) 23,000 S.F. (TABLE 506.2)

ENERGY CONSERVATION:

BUILDING ENERGY EFFICIENCY IS COMPLIANT WITH CRITERIA AS SET FORTH IN CHAPTER 4 [CE], SECTION C407 "TOTAL BUILDING PERFORMANCE"

PROTECTION: FBC CHAPTER 6 - TABLE 601

PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	0
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS & PARTITIONS	0
EXTERIOR	0
INTERIOR	0
ELOOR CONSTRUCTION AND SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND SECONDART MEMBERS	0
OCCUPANT LOAD & EGRESS WIDTH ANALYSIS PER: (FBCB / NFPA-101) - BUSINESS OCCUPANCY	
4 200 S E / 150 S E PER PERSON =	28 OCCUPANTS
4,200 S.F. / 150 S.F. PER PERSON =	28 OCCUPANTS
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT	28 OCCUPANTS 28 2" (FBC TABLE 1005 1)
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED:	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x 2" = 5.6"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED:	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED:	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED: FBC SECTION 803: WALL AND CEILING FINISHES - GROUP B. NON-SPRINKLERED	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED: FBC SECTION 803: WALL AND CEILING FINISHES - GROUP B, NON-SPRINKLERED -CLASS C - CORRIDORS, ROOMS AND ENCLOSED SPACES	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED: FBC SECTION 803: WALL AND CEILING FINISHES - GROUP B, NON-SPRINKLERED -CLASS C - CORRIDORS, ROOMS AND ENCLOSED SPACES FLAME SPREAD 76 - 200: SMOKE DEVELOPED 0 - 450	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED: FBC SECTION 803: WALL AND CEILING FINISHES - GROUP B, NON-SPRINKLERED -CLASS C - CORRIDORS, ROOMS AND ENCLOSED SPACES FLAME SPREAD 76 - 200; SMOKE DEVELOPED 0 - 450 -CLASS B - EXIT ENCLOSURES AND EXIT PASSAGEWAYS	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"
4,200 S.F. / 150 S.F. PER PERSON = TOTAL OCCUPANTS: EGRESS WIDTH PER OCCUPANT: EGRESS WIDTH REQUIRED: EGRESS WIDTH PROVIDED: FBC SECTION 803: WALL AND CEILING FINISHES - GROUP B, NON-SPRINKLERED -CLASS C - CORRIDORS, ROOMS AND ENCLOSED SPACES FLAME SPREAD 76 - 200; SMOKE DEVELOPED 0 - 450 -CLASS B - EXIT ENCLOSURES AND EXIT PASSAGEWAYS FLAME SPREAD 26 - 75; SMOKE DEVELOPED 0 - 450	28 OCCUPANTS 28 .2" (FBC TABLE 1005.1) 28 x .2" = 5.6" 102"

FBC SECTION 804: INTERIOR FLOOR FINISH - GROUP B, NON-SPRINKLERED

DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630)

4,200 S.F.

WORK SCOPE THE SCOPE OF WORK CONSISTS OF A NEW 4,200 S.F. DENTAL OFFICE.

# **DESIGN CODES**

FLORIDA BUILDING CODE - 7TH EDITION (2020) FLORIDA PLUMBING CODE - 7TH EDITION (2020) FLORIDA MECHANICAL CODE - 7TH EDITION (2020) NATIONAL ELECTRIC CODE 2017 (NFPA 70) FLORIDA ACCESSIBILITY CODE - 7TH EDITION (2020) FLORIDA FIRE PREVENTION CODE - 7TH EDITION (2020)- WITH NFPA-1 & 101, 2018 ED. FLORIDA BUILDING CODE - 7TH EDITION (2020) - ENERGY CONSERVATION

SHEET		UWNERS REVIEW	
0 ARCHITEC		•	
G001 G002	GENERAL RESPONSIBILITY MATRIX	•	
G003	CODE DATA & LIFE SAFETY PLAN	•	
G004	ACCESSIBILITY STANDARDS	•	
G005	U.L. DETAILS	•	
A100	SHELL FLOOR PLAN	•	
A101	FLOOR PLAN & WALL SCHEDULE	•	
A110	SHELL REFLECTED CEILING PLAN	•	
A111 A120	SHELL ROOF PLAN	•	
A121	SHELL ENTRY CANOPY ROOF PLAN	•	
A131	FINISH PLAN & SCHEDULES	•	
A141 A151	FURNITURE & DECOR PLAN	•	
A160	SHELL SIDEWALK PLAN	•	
A200	EXTERIOR ELEVATIONS	•	
A211		•	
A212 A213	INTERIOR ELEVATIONS	•	
A301	SHELL WALL SECTIONS	•	
A302	SHELL WALL SECTIONS	•	
A303	SHELL WALL SECTIONS	•	
A402	TREATMENT SUITE DETAILS	•	
A411	RESTROOM PLANS AND DETAILS	•	
A412	RESTROOM PLANS AND DETAILS	•	
A501 A502	SHELL CONSTRUCTION DETAILS SHELL CONSTRUCTION DETAILS	•	
A503	SHELL CONSTRUCTION DETAILS	•	
A504	SHELL CONSTRUCTION DETAILS	•	
A505		•	
A500 A511	INTERIOR DETAILS	•	
A512	INTERIOR DETAILS	•	
A513		•	
A521 A522	BLOCKING DETAILS BLOCKING DETAILS	•	
A601	DOOR SCHEDULE AND DETAILS	•	
A701	SPECIFICATIONS	•	
A702	SPECIFICATIONS	•	
A703	SPECIFICATIONS	•	
20 STRUCTUR	AL	1	
S1.1	FOUNDATION PLAN	•	
<u>S2.1</u>	ROOF FRAMING PLAN	•	
\$3.2	SECTIONS	•	
S3.3	SECTIONS	•	
S4.1	DETAILS	•	
	DETAILS	•	
S5.1	GENERAL NOTES	•	
25 MEP		1	
	MECHANICAL ZONING PLAN	•	
M001	MECHANICAL SPECS AND NOTES	•	
M101	MECHANICAL PLAN	•	
M501	MECHANICAL DETAILS	•	
0 PLUMBING	MECHANICAL SCHEDULES	•	
P001	PLUMBING SPECS AND NOTES	•	
P101	PLUMBING WASTE & VENT PLAN	•	
P102 P103	PLUIVIDING WATER PLAN PLUMBING MED GAS PLAN	•	
P201	PLUMBING ISOMETRIC	•	
P501	PLUMBING DETAILS	•	
P502		•	
60 ELECTRICA			
E001	ELECTRICAL LEGEND		 
E101	ELECTRICAL - LIGHTING PLAN		
E102	ELECTRICAL - POWER PLAN		
E511	ELECTRICAL DETAILS		
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		ABBRE	VIATIONS		
A.F.F.	ABOVE FINISHED	FLOOR	MFR.	MANUFACTURER	
A.P. A.C.P.	ACCESS PANEL ACOUSTICAL CEIL	ING PANEL	MAS. M.O.	MASONRY MASONRY OPENING	
A.B. ARCH.	ANCHOR BOLT ARCHITECTURAL		MAX. M.E.P.	Maximum Mech./Elec./Plumb.	
			MECH. M D F	MECHANICAL MEDIUM DENSITY FIRERROARD	
BSMT.	BASEMENT		MTL.	MEDION DENOTITI TIDENDOARD	
B.M.	BENCH MARK		MISC.	MINIMOM MISCELLANEOUS	
BLKG. BD.	BLOCKING BOARD		MOD. MOD. BIT.	MODIFIED MODIFIED BITUMEN	
BOT. BLDG.	BOTTOM BUILDING		M.S.L. N.A.	MEAN SEA LEVEL NOT APPLICABLE	
B.L. B.U.R.	BUILDING LINE BUILT-UP ROOF		N/A N.I.C.	NOT APPLICABLE NOT IN CONTRACT	
B.G. CIP	BUMPER GUARD		N.T.S. O.C	NOT TO SCALE ON CENTER	
CLG.	CEILING		OPNG.	OPENING	
CTR.	CENTER		0.H.	OPPOSITE HAND	
C.L. CER.	CERAMIC		O.D.		
C.T. COL.	Ceramic Tile Column		0.A.	OVERFLOW DRAIN OVER ALL	
CONC. C.M.U.	CONCRETE CONCRETE MASO	NRY UNIT	ptd. P.lam.	PAINTED PLASTIC LAMINATE	
CONST. CONT.	CONSTRUCTION CONTINUOUS		PREFAB. P.T.	PREFABRICATED PRESSURE TREATED	
CONTR.	CONTRACTOR		P.L. PLMB	PROPERTY LINE	
COORD.			PLYWD.	PLYWOOD PRECAST CONCRETE	
DET.					
D.E.F. DIA.			R.C.P.	REFLECTED CEILING PLAN	
DIM. D.S.	DIMENSION DOWN SPOUT		REF. REINF.	REFER OR REFERENCE REINFORCING	
DWG. DN.	DRAWING DOWN		REQ'D. R.	REQUIRED RISER	
EA. E.W.	EACH EACH WAY		RAD. R.D.	RADIUS ROOF DRAIN	
ELEC. E.W.C	ELECTRIC ELECTRIC WATER	COOLER	RM. R.O.	ROOM ROUGH OPENING	
EL. FLEV	ELEVATION		RW. SAB	RED WOOD SOUND ATTENUATION BLANKET	
EQ.	EQUAL		SCHED.	SCHEDULE SECTION	
EQMIT. EX. EVICT	EXISTING		SHT.	SHEET SIMILAD	
EXIST. E.J.	EXISTING EXPANSION JOINT	г	SIM. S.O.G.	SIMILAR SLAB ON GRADE	
EXT. FIN.	EXTERIOR FINISH		SPEC. SQ.	SPECIFICATION SQUARE	
F.F. FLASH.	FINISH FLOOR FLASHING		S.S. S.P.	STAINLESS STEEL STAND PIPE	
FLR. F.D.	FLOOR FLOOR DRAIN		STD. STL.	STANDARD STEEL	
FT. F R P	FOOT FIRE RESISTANT F	PANELS	STRUC.	STRUCTURAL	
F.V.	FIELD VERIFY		THK.		
G.L.	GRID LINE		T.C.	TOP OF CURB	
GEN.	GENERAL		T.O.P. T.O.S.	TOP OF PARAPET TOP OF SLAB	
GL. GYP. BD.	GLASS GYPSUM BOARD		T.O.STL. T.W.	TOP OF STEEL TOP OF WALL	
HDBD. HDW.	HARDBOARD HARDWARE		T.S. T.	TRANSITION STRIP TREAD	
HDWD. HT.	HARDWOOD HEIGHT		TYP. U.N.O.	TYPICAL UNLESS NOTED OTHERWISE	
H.P. H.M.	HIGH POINT HOLLOW METAL		V.GR. VERT.	"V"-GROOVE VERTICAL	
HOR. H B	HORIZONTAL HOSE BIB		VEST.		
HR.			V.C.T.		
INSUL.	INSIDE DIAMETER INSULATION		WP.	WORK POINT	
JT.	JOINT		W.F. W/	WIDE FLANGE WITH	
LAV. LT.	LAVATORY		W/O WD.	WITHOUT	
LG. LOC.	LONG LOCATION		W.W.F. W.W.M.	WELDED WIRE FABRIC WELDED WIRE MESH	
LLH. LLV.	LONG LEG HORIZO	ONTAL CAL			
L.P.	LOW POINT				
		SYMBO			
				1000	
SHEET RI	EFERENCE			A000	
DRAWI	NG TITLE				
			SCALE: 1/4	= 1-0	
ENLARGED & DETAIL F	PLAN DE TAIL REFERENCE	ĺ			
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	RESPONSIBILITY SCHEDULE					IBILITY SCHEDULE		
		HSINali	ISTALL			HSI		
	UA s'Isting			<b>3.C. FURNISH</b>	3.C. INSTALL	OWNER FURN	COMMENTS	
	Z   W	1-	<u> </u>	0	0		COMMENTS	
BUILDING PERMIT		F		•		•	OWNER TO COORDINATE PERMIT APPROVAL, G.C. TO PAY FEES & PICK UP APPROVED PERMITS	APPLIANCES
SIGNAGE PERMIT		+		•		•		TELEVISION SCREENS & WALL-MOUNTS
CONSTRUCTION BARRICADE	•	+		•				DENTAL CHAIR, LIGHT, & UTILITY CENTER
TEMPORARY LIGHTING & UTILITIES		t		•				WORK AREA EQUIPMENT (ULTRASONIC, ITERC
TEMPORARY MATERIAL STORAGE TEMPORARY SITE SECURITY		+		•		$\vdash$		MED-GAS MANIFOLD SYSTEM, SHUT-OFF, & AL DIGITAL PANORAMIC SYSTEM
CONSTRUCTION WASTE MANAGEMENT & DISPOSAL		Ŧ		•				X-RAY SYSTEM & BUTTON CONTROLS
FINAL CLEAN-UP / TURNOVER TO OPERATIONS		t		•				
02 - EXISTING CONDITIONS								
	•	Ŧ						12 - FURNISHINGS
ASBESTOS TESTING & REPORT	•	t						WINDOW SHADES
SITE SURVEY & ASSESSMENT SUBSURFACE INVESTIGATION		•	•		-	$\vdash$		DECOR & ARTWORK WAITING ROOM TABLES & CHAIRS
							1	BREAK ROOM TABLES & CHAIRS
CONCRETE SLAB	•							OFFICE CHAIRS
CONCRETE RIBBON SLAB CONCRETE IN-FILL - PLUMBING LEAVE-OUT		ŀ	•	•	•	$\vdash$		OPERATORY / WORK AREA CHAIRS & STOOLS
CONCRETE BEAMS & COLUMNS	•	t		-				
CONCRETE FOUNDATION		•	•					13 - SPECIAL CONSTRUCTION
04 - MASONRY		-						RADIATION PROTECTION
		t						21 - FIRE SUPPRESSION
		+	+			$\left  + \right $		FIRE SPRINKLER RISER
		_	-			•		FIRE ALARM SYSTEM
JJ - IVIE I ALO		T						SMOKE EVACUATION SYSTEM
		+				$\vdash$		
06 - WOOD, PLASTICS, & COMPOSITES		_		_				22 - PLUMBING WATER & SANITARY STUB-INS
ROUGH CARPENTRY BLOCKING / NAILERS / UNISTRUT SUPPORTS		Ŧ		•	•			WATER METER
FINISH CARPENTRY		t		•	•			WATER CLOSETS
STRUCTURAL WOOD COMPONENTS	•	-						LAVATORIES & SINKS MOP SINK
07 - THERMAL & MOISTURE PROTECTION		Τ.						
ROOFING SYSTEM		•	•					DRINKING FOUNTAIN
GUTTERS & DOWNSPOUTS FIRESTOPPING		ŀ	•	•	•	$\vdash$	IF REQUIRED. REFER TO ARCHITECTURAL DWGS	EYE WASH ACCESSORY KITS / WALL CARRIERS
JOINT SEALANTS		ŀ	•					BACKFLOW PREVENTER
EXTERIOR CAULKING & BACKER RODS		•	•			H		CLEAN-OUTS, FLOOR DRAINS, & TRAP GUARD
EXTERIOR SHEATHING		÷	•					PLASTER TRAP
								PRESSURE REDUCING VALVE
08 - OPENINGS								HOT WATER CIRCULATION PUMP PIPE INSULATION
		•	•					WATER SOLENOID & MASTER CONTROLLER
STOREFRONT SYSTEM		•	•					PIPING & FITTINGS - AIR & VACUUM
STOREFRONT GLAZING EXTERIOR SERVICE DOORS & FRAMES		•	•			$\vdash$		N2O & O2 STORAGE TANKS
EXTERIOR SERVICE DOOR HARDWARE		ŀ	•				G.C. TO RE-KEY TO MASTER	
INTERIOR DOOR A FRAMES					•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	23 - HEATING, VENTILATING, & AIR CONDITION
INTERIOR DOOR & SIDELITE GLAZING		+.	•		•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	HVAC UNITS
PANO ROOM WINDOW FRAME & GLAZING		t			•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	HVAC DUCTWORK, DIFFUSERS, & GRILLES
WINDOW FILM		+		•	•	$\vdash$	TE REQUIRED, REFER TO ARCHITECTURAL DWGS	FIRE DAMPERS
09 - FINISHES								HVAC CERTIFIED AIR TEST AND BALANCE
DEMISING WALL	•	T					G.C. TO PATCH & REPAIR AS REQUIRED TO MAINTAIN FIRE RATING	PIPE & DUCT INSULATION
INTERIOR PARTITIONS ACOUSTIC CEILING TILE & GRID		+		•	•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	26 - ELECTRICAL
WOOD-SLAT CEILING & GRID		Ŧ		_	•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	ELECTRICAL STUB-IN TO SPACE
SOUND BATT INSULATION		t		•	•			DISCONNECT, METER, & METER BOXES
CARPET TILE & ADHESIVE		+			•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	MAIN PANEL & BREAKERS
PORCELAIN TILE, GROUT, & MORTAR		t			•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR	CONDUIT & WIRING
PAINT		t		•	•	$\vdash$	CONTRACTOR TO PURCHASE THROUGH HEARTLAND DENTAL VENDOR ACCOUNT CONTRACTOR TO PURCHASE THROUGH HEARTLAND DENTAL VENDOR ACCOUNT	LIGHTING FIXTURES
WALLCOVERING & ADHESIVE		Ŧ		•	•		CONTRACTOR TO PURCHASE THROUGH HEARTLAND DENTAL VENDOR ACCOUNT	EMERGENCY LIGHTING, EXIT LIGHTING, & EXIT
WOOD TRIM		t		•	•	Ľ		SOUND SYSTEM SPEAKERS
TRANSITION STRIPS LEVELING COMPOUND		+		•	•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR AS REQUIRED	LOW VOLTAGE TELEPHONE. CABLE. INTERNET STUB-IN TO SF
		F						TELEPHONE, CABLE, INTERNET FROM STUB-IN EXTERIOR PARKING, WALKWAY, & SITE LIGHT
								32 - EXTERIOR IMPROVEMENTS
10 - SPECIALTIES								PARKING LOT PAVING, STRIPING, & SEALING CURBS, GUTTERS, & SIDEWALKS
		-				•	FURNISHED & INSTALLED BY SIGNAGE VENDOR. G.C. TO COORDINATE POWER REQUIREMENTS	
INTERIOR WAYFINDING & TACTILE SIGNAGE		+		•	•	•	FURNISHED & INSTALLED BY SIGNAGE VENDUR. [[NEEDS REVIEWED]]	MULCHING, GRADING, & PLANTING
FIRE EXTINGUISHERS		Ŧ				•		
TOILET ROOM ACCESSORIES		t		•	•		G.C. TO PROVIDE BLOCKING AS REQUIRED	
MOP HOLDER MIRRORS		F		•	•		G.C. TO PROVIDE BLOCKING AS REQUIRED	
HAND DRYER		t		•	•		G.C. TO PROVIDE BLOCKING & POWER AS REQUIRED	
PAPER TOWEL DISPENSERS DRY ERASE BOARD		+	+	•	•	•	G.C. TO PROVIDE BLOCKING AS REQUIRED	
		1			-	•	G.C. TO INCLUDE ADD ALTERNATE IN BID FOR CASEWORK, SHELVING, & LOCKER INSTALL	
		+			•	•	G.C. TO INCLUDE ADD ALTERNATE IN BID FOR CASEWORK, SHELVING, & LOCKER INSTALL	
MAIL BOX EXTERIOR AWNINGS / CANOPIES		•	•					

	NA	EXISTING	LANDLORD FURNISH	LANDLORD INSTALL	G.C. FURNISH	G.C. INSTALL	<b>OWNER FURNISH</b>	<b>OWNER INSTALL</b>	COMMENTS
					•	•			
							•	•	G.C. TO PROVIDE POWER & DATA AS REQUIRED G.C. TO PROVIDE BLOCKING, POWER, & DATA AS REQUIRED
							•	•	G.C. TO PROVIDE UTILITIES AS REQUIRED G.C. TO PROVIDE UTILITIES AS REQUIRED
D, ETC.) _ARM						•	•	•	G.C. TO PROVIDE UTILITIES AS REQUIRED FURNISHED BY DENTAL EQUIPMENT PROVIDER, INSTALLED BY CONTRACTOR
							•	•	G.C. TO FURNISH & INSTALL LOW VOLTAGE CABLING, REFER TO ELECTRICAL DWGS G.C. TO FURNISH & INSTALL LOW VOLTAGE CABLING, REFER TO ELECTRICAL DWGS
							•	•	G.C. TO INCLUDE ADD ALTERNATE IN BID FOR CASEWORK, SHELVING, & LOCKER INSTALL
							•	•	G.C. TO PROVIDE BLOCKING AS REQUIRED & COORDINATE INSTALL SCHEDULE W/ VENDOR G.C. TO COORDINATE INSTALL SCHEDULE W/ VENDOR
							•	•	G.C. TO COORDINATE INSTALL SCHEDULE W/ VENDOR G.C. TO COORDINATE INSTALL SCHEDULE W/ VENDOR
							•	•	G.C. TO COORDINATE INSTALL SCHEDULE W/ VENDOR G.C. TO COORDINATE INSTALL SCHEDULE W/ VENDOR
							•	•	FURNISHED & INSTALLED BY DENTAL EQUIPMENT PROVIDER
	•								
	•								G.C. TO CONTRACT SPRINKLER SUB FOR DWGS & PERMIT. MODIFY EXISTING SYSTEM AS REQUIRED
	•								
	•								
			•	•					
			•	•	•	•			
						•	•		CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR
						•	•		CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR
					•	•	•		
						•	•		CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR
					•	•			
S					•	•			
					•	•	•		
					•	•			IF REQUIRED, REFER TO PLUMBING DWGS
					•	•	•		FURNISHED BY DENTAL EQUIPMENT PROVIDER, INSTALLED BY CONTRACTOR
					•	•			
							•	•	
ING			•	•					
			•		•	•			
					•	•			IF REQUIRED, REFER TO MECHANICAL DWGS
					•	•			
					•	•			
			•	•					
			•	•					
			•	•					
					•	•			
					•	•	•		
T SIGNS						•	•	•	CONTRACTOR TO PLACE ORDER THROUGH HEARTLAND DENTAL VENDOR G.C. TO PROVIDE J-BOXES AND CONDUIT, HEARTLAND I.T. TO INSTALL. REFER TO ELEC DWGS
					•	•	•	•	G.C. TO PROVIDE J-BOXES AND CONDUIT, HEARTLAND I.T. TO INSTALL. REFER TO ELEC DWGS X-RAY & PANO LOW VOLTAGE BY G.C ALL OTHER LOW VOLTAGE BY HEARTLAND I.T.
PACE N TO I.T. CLOSET			•	•	•	•			[G.C. PROVIDES CONDUIT TO I.T. CLOSET IF NEEDED, HD'S SERVICE PROVIDER PULLS WIRES?1]
ING			•	•					
			•	•					
			•	•					
			•	•					

**NOTE:** HEARTLAND DENTAL VENDOR CONTACT INFORMATION & ORDERING INSTRUCTIONS WILL BE ISSUED TO G.C. AT TIME OF BID AWARD. PLEASE CONTACT THE HEARTLAND DENTAL CONSTRUCTION PROJECT MANAGER LISTED ON THE TITLESHEET FOR MORE INFORMATION.







# OWNER SHALL PROVIDE, AT EA THE MALTESE CROSS", PRIOR PLACEMENT: 24" TO THE LEF 4'-0" A.F.F., MIN. 6'-0" A.F.F., MA SIZE: 8"x8" MINIMUM. COLOR: A BRIGHT RED REF MOUNTING: SYMBOL TO BE PE STRUCTURE ON A ON A CONTRASTING 69A-60.008: NOTICE REQUIRED TYPE CONSTRUCTION. THE SYN CONTROL AND OTHER EMERGE LIGHT FRAME TYPE CONSTRUC

MALTESE CROSS	LIFE S	SAFETY LEGEND	EIN IS ES, AND HE ING IS S AND S AND S AND S AND S AND
VNER SHALL PROVIDE, AT EACH MAIN ENTRY, THIS APPROVED FIRE SYMBOL, E MALTESE CROSS", PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.	FE	FIRE EXTINGUISHER CABINET	ONTAINED HEF ONTAINED HEF ANV WITHOUT 1 ANV MITHOUT 1 AL RIGHTS ALL RIGHTS ALL RIGHTS AFECIFICATION FE APPLICABLE E.
ACEMENT: 24" TO THE LEFT OF EACH MAIN ENTRY. 4'-0" A.F.F., MIN. TO BOTTOM OF SYMBOL. 6'-0" A.F.F., MAX. TO TOP OF SYMBOL.		EMERGENCY LIGHT REFER TO ELECTRICAL FOR SPECIFICATIONS	L INFORMATION CI FERTY OF FISHER A OR USED IN ANY M OR USED IN ANY M ANSENT OF FISHER AED UPON REQUES SE OR PUBLICATION FOMPLY WITH TH FFECT AT THIS TIM
2E:       8"x8" MINIMUM.         8" MINIMUM         8" MINIMUM         8" MINIMUM	_	EXIT LIGHT REFER TO ELECTRICAL FOR SPECIFICATIONS	WING AND AL USIVE PROPI D BE COPIED O WRITTEN EC T BE RETURN G GENERAL US D. EST OF MY KI HOWN HEREIN CODES IN EF
DUNTING: SYMBOL TO BE PERMANETLY ATTACHED TO THE FACE OF THE STRUCTURE ON A CONTRASTING BACKGROUND OR MOUNTED ON A CONTRASTING BASE MATERIAL WHICH IS THEN PERMANETLY ATTACHED TO THE FACE OF THE STRUCTURE.	₿	PATH OF EGRESS	THIS DRA THE EXCL IS NOT TC EXPRESS AND MUS NOT FOR RESERVE TO THE BI PLANS SH BUILDING
A-60.008: NOTICE REQUIRED FOR STRUCTURES WITH LIGHT-FRAME TRUSS PE CONSTRUCTION. THE SYMBOL SHALL WARN PERSONS CONDUCTING FIRE	LIFE	SAFETY NOTES	43-4436
INTROL AND OTHER EMERGENCY OPERATIONS OF THE EXISTENCE OF THE SHT FRAME TYPE CONSTRUCTION IN THE STRUCTURE.	<ol> <li>DISTANCE SHALL NOT EXCEED TABLE 1017.2)</li> <li>COMMON PATH OF TRAVEL SH/</li> <li>REFER TO FLOOR PLAN, PARTI'</li> <li>FIRE EXTINGUISHER CABINET L GENERAL LOCATIONS ONLY</li> <li>ALL STRUCTURAL WOOD PROD AND BLOCKING TO BE FIRE RET</li> <li>PORTABLE FIRE EXTINGUISHER EDITION INCLUDING NFPA 1 &amp; 1 ONE EXTINGUISHER PER EVER'</li> <li>EMERGENCY LIGHTING SHALL I INCLUDING NFPA 1 &amp; 101, 2018 F</li> </ol>	200 FT IN BUSINESS OCCUPANCIES; (2012 IBC ALL NOT EXCEED 100 FT; (2012 IBC TABLE 1006.2.1) TION SCHEDULE, & UL DETAIL SHEETS OCATIONS ARE SHOWN ON THIS PLAN FOR DUCTS, INCLUDING BUT NOT LIMITED TO PLYWOOD TARDANT TREATED. RS SHALL BE IN COMPLIANCE WITH FFPC 7TH 01, 2018 EDITION. THERE SHALL BE A MINIMUM OF Y 2,500 SQ. FT. MINIMUM SIZE 2A10BC TYPE. MEET REQUIREMENTS OF FFPC 7TH EDITION EDITION.	SOCIATES, LLC ECTS ECTS SR DR DESIGNERS 38 CLEARWATER, FL. 33764 (727) 4
	FROM POINT A TO EX FROM POINT A TO EX FROM POINT A TO EX FROM POINT B TO EX	EL DISTANCES           IT #1         67' - 0"           IT #2         102' - 3"           IT #3         25' - 7"	AND AS ARCHIT PLANNE INTERIC AA260017 AA260017
	<u>ACCES</u>	SIBILITY LEGEND	
		REQUIRED CLEARANCES	SHB
		36" MINIMUM CLEAR WIDTH "ACCESSIBLE" ROUTE	
		32" MINIMUM CLEAR ACCESSIBLE ROUTE; ALLOWED FOR 24" MAX.	PLAN
		5'-0" TURNING CIRCLE	
		TURNING "T"	SAFE NL
	<ol> <li>ALL CROSS SLOPES THAT ARI SHALL BE A MAXIMUM OF 2% 3</li> <li>ALL PANIC HARDWARE SHALL</li> <li>ALL THRESHOLDS AT FLOOR I NOT EXCEED 1/2" IN HEIGHT A GREATER THAN 1:2</li> <li>ALL LIGHT SWITCHES, VOLUM AREAS SHALL BE MOUNTED N PART U.N.O.</li> <li>ALL ACCESSIBLE ELEMENTS A STANDARDS AND REQUIREME CODE REFERENCED ON THE 0</li> <li>ICC/ANSI A117.1-2009 403.5 ALI LESS THAN 24" LONG</li> </ol>	E A PORTION OF THE ACCESSIBLE ROUTE SLOPE BE MOUNTED NO HIGHER THAN 46" A.F.F. LEVEL CHANGES AND TRANSITIONS SHALL IND SHALL BE BEVELED WITH A SLOPE NO E CONTROLS AND THERMOSTATS IN PUBLIC IO HIGHER THAN 48" A.F.F. TO THE OPERABLE ARE TO BE INSTALLED ACCORDING TO THE ENTS SET FORTH BY THE ACCESSIBILITY COVER SHEET LOWS REDUCTION IN ACCESSIBLE PATHS	DE DATA & LIFE ARTLAND DENT/ TER GARDEN LON & MARSH RD TER GARDEN, FL 3478
	DOOR APPROACH SCHEDU	JLE	
(A) FRONT APPROACH: PULL SIDE	(B) LATCH APPROACH: PULL SIDE	(C) HINGE APPROACH: PULL SIDE	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS:
12" 36" MIN. (D) FRONT APPROACH: PUSH SIDE	(D1) FRONT APPROACH: PUSH SIDE - NO LATCH AND/OR NO CLOSER	(E) LATCH APPROACH: PUSH SIDE	
(E1) LATCH APPROACH: PUSH SIDE - NO LATCH AND/OR NO CLOSER	(F) LATCH APPROACH: PUSH SIDE	(G) HINGE APPROACH: PUSH SIDE	WILLIAM JOE FISHER ARCHITECT 0010829 G003 Project Date: 1/31/23 Project No.: 223001



Project Date: 1/31/23 Project No.: 223001

U. L. System No. W-L-1054 January 21, 2020 F Rating-1 and 2 Hr. T Rating-0 Hr. L Rating @ Ambient - Less than 1 CFM/Sq. Ft. L Rating @ 400° F - 4 CFM/Sq. Ft.

![](_page_4_Figure_1.jpeg)

![](_page_4_Figure_2.jpeg)

#### Wall Assembly-The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The ramed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 nm) clearance is present between the penetrating item and the framing on all four sides. B. Gypsum Board<sup>4</sup> — 5/8 in. (16 mm) thick, 4 ft (12 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

- a. Through-Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of vall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- Iron Pipe Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe. d. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam
- Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) conner tubing Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) régular (or heavier) copper pipe. Fill Void or Cavity Material\* — Sealant — Min 5/8 in (16 mm) thickness of fill material applied within the annulus flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement	
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A	
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A	
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively								

- Floor and Ceiling Runners -- (Not Shown) -- Channel shaped runners, 3-5/8 in, deep (min), 1-1/4 in, leas, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. 1A. Framing Members\* -- Floor and Ceiling Runners -- (Not Shown) -- As an alternate to Item 1 -- Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC -- Type SUPREME D24/30EQD and Type SUPREME D20
- CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV -- Type SUPREME D24/30EQD and Type SUPREME D20 QUAIL RUN BUILDING MATERIALS INC -- Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO -- Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC -- Type SUPREME D24/30EQD and Type SUPREME D20
- TELLING INDUSTRIES L L C Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC -- Type SUPREME D24/30EQD and Type SUPREME D20
- 1B. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Item 1 -- For use with Item 2B. proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with asteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO -- Viper20™ Track
- MARINO/WARE, DIV OF WARE INDUSTRIES INC -- Viper20™ Track FUSION BUILDING PRODUCTS — Viper20™ Track
- MPERIAL MANUFACTURING GROUP INC Viper20™ Track 1C. Floor and Ceiling Runners -- (Not Shown) -- For use with Item 2C -- Channel shaped, fabricated from min 20 MSG corrosionprotected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.
- D. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Items 1 through 1C -- For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. ARKDIFTRICH BUILDING SYSTEMS ... CD ProTR DMFCWBS LLC -- ProTRA
- MBA METAL FRAMING -- ProTRAK RAM SALES LLC -- Ram ProTRA
- STEEL STRUCTURAL PRODUCTS L L C -- Tri-S ProTRAK 1E. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Items 1 through 1D -- For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES LLC -- TRUE-TRACK
- 1F. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Items 1 through 1E -- For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fastener spaced 24 in. OC max. KIRII (HONG KONG) LTD -- Type KIRII
- 1G. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Items 1 through 1F -- For use with Item 2. channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max. STUDCO BUILDING SYSTEMS -- CROCSTUD Track 1H. Floor and Ceiling Runners -- (Not Shown) -- Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC
- MARINO/WARE, DIV OF WARE INDUSTRIES INC -- Viper20<sup>TM</sup> Track VT100 FUSION BUILDING PRODUCTS — Viper20™ Track VT100
- IMPERIAL MANUFACTURING GROUP INC Viper20™ Track VT100 11. Framing Members\* -- Floor and Ceiling Runners -- Not Shown -- In lieu of Item 1 -- For use with Item 2H, proprietary channel haped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
- MARINO/WARE, DIV OF WARE INDUSTRIES INC Viper20<sup>™</sup> Track 1J. Framing Members\* -- Floor and Ceiling Runners -- Not Shown --- In lieu of Items 1 -- For use with Item 2 L. proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
- RESCUE METAL FRAMING, L L C AlphaTRAK 1K. Framing Members\* - Floor and Ceiling Runners - Not Shown - In lieu of Item 1 - For use with Item 2M proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
- CALIFORNIA EXPANDED METAL PRODUCTS CO Viper X Track 1L. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in, OC max.
- CRACO MFG INC SmartTrack20™ Steel Studs -- Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. 2A. Framing Members\* -- Steel Studs -- As an alternate to Item 2 -- Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in, OC. Studs to be cut 3/4 in, less than assembly height.
- ALLSTEEL & GYPSUM PRODUCTS INC -- Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV -- TVDE SUPREME D24/30EQD and TVDE SUPREME D20 QUAIL RUN BUILDING MATERIALS INC -- Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO -- Type SUPREME D24/30EOD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC -- Type SUPREME D24/30EQD and Type SUPREME D20
- TELLING INDUSTRIES L L C Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC -- Type SUPREME D24/30EQD and Type SUPREME D20
- 2B. Framing Members\* -- Steel Studs -- Not Shown -- In lieu of Item 2 -- For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly

#### ALIFORNIA EXPANDED METAL PRODUCTS CO -- Viper20<sup>TM</sup> CRACO MFG INC -- SmartStud20<sup>11</sup> MARINO/WARE, DIV OF WARE INDUSTRIES INC -- Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™ 2C. Steel Studs -- (As an alternate to Item 2, For use with Item 1C) -- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel 3-1/2 in min depth spaced a max of 16 in OC Studs friction-fit into floor and eiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item

2D. Framing Members\* -- Steel Studs -- As an alternate to Items 2 through 2C -- For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. Studs to be cut 1/2 in. less than assembly height

USION BUILDING PRODUCTS - Viper20

- CLARKDIETRICH BUILDING SYSTEMS -- CD ProSTUD MBA METAL FRAMING -- ProSTUD
- RAM SALES LLC -- Ram ProSTU STEEL STRUCTURAL PRODUCTS LLC -- Tri-S ProSTUD
- 2E. Framing Members\* -- Steel Studs -- As an alternate to Items 2 through 2D -- For use with Item 1E and 4I only, nel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly heigh ELLING INDUSTRIES LLC -- TRUE-STUD
- 2F. Framing Members\* -- Steel Studs -- As an alternate to Items 2 through 2E -- For use with Item 1F. channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in, less than assembly height. IRII (HONG KONG) LTD -- Type KIRI
- 2G. Framing Members\* -- Steel Studs -- Not Shown -- In lieu of Item 2 through 2F -- For use with Item 1G. / channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS -- CROCSTUD 2H. Framing Members\* -- Steel Studs -- Not Shown -- In lieu of Item 2 -- For use with Item 1I, proprietary channel
- haped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper201 21. Framing Members\* -- Steel Studs -- In lieu of Item 2 -- For use with Item 1, channel shaped studs, fabricated rom min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less
- than assembly height EB METAL INC -- NITROSTUD 2J. Framing Members\* -- Steel Studs -- In lieu of Item 2 -- For use with Item 1, channel shaped studs, fabricated rom min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less
- than assembly height. OLMAR SUPPLY INC -- PRIMESTUD 2K. Framing Members\* -- Steel Studs -- As an alternate to Item 2 -- For use with Item 1B (3-5/8 in, wide track).
- channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. ARINO/WARE, DIV OF WARE INDUSTRIES INC -- StudRiteT PL. Framing Members\* -- Steel Studs -- As an alternate to Items 2 -- For use with Item 1J. channel shaped studs
- min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. STEEL INVESTMENT GROUP L L C -- AlphaSTUE 2M. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary
- channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. re metal thickness). Studs cut 3/4 in. less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper X ... Framing Members\* - Steel Studs - Not Shown - In lieu of Item 2 - For use with Item 1L, proprietary
- channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height CRACO MFG INC — SmartStud20™ Batts and Blankets\* -- (Optional) -- Mineral wool or glass fiber batts partially or completely filling stud cavity.
- See Batts and Blankets (BZJZ) category for names of Classified companies ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m3/ ROCKWOOL MALAYSIA SDN BHD - Type Acoustical Fire Batts
- 3A. Fiber, Sprayed\* -- As an alternate to Batts and Blankets (Item 3) -- (100% Borate Formulation) -- Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3/. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3/, in accordance with the application instructions supplied with the product.
- S GREENFIBER L L C INS735, INS745, INS750LD for use with wet or dry application. INS765LD and NS773LD are to be used for dry application only B. Fiber, Sprayed\* -- As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the
- product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC -- Cellulose Insulation 3C. Fiber, Sprayed\* -- As an alternate to Batts and Blankets (Item 3) -- Spray applied cellulose fiber. The fiber applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with
- um dry density shall be 4.30 lbs/ft3/ INTERNATIONAL CELLULOSE CORP -- Celbar-RL 3D. Batts and Blankets\* -- For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit
- etween the studs and floor and ceiling runners. See Batts and Blankets (BZJZ) category for names of manufacturers. 3E, Batts and Blankets\* -- For use with Item 4R and 4S, Placed in stud cavities, any min, 3-1/2 in, thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
- See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 3F. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3/.
- APPLEGATE HOLDINGS L L C Applegate Advanced Stabilized Cellulose Insulation 3F Foamed Plastic\* — As an alternate to Batts and Blankets (Item 3) for use with Item 4U — Spray applied foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic used, minimum stud depth shall be 3-1/2 in. CARLISLE SPRAY FOAM INSULATION - Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC),
- SealTite Pro OCX. SealTite Pro No Trim 21. SealTite Pro One Zero. Foamsulate Closed Cell, Foamsulate OCX. Foamsulate 70, and Foamsulate HFO. 4 Grosum Board\* -- 5/8 in thick 4 ft wide attached to steel studs and floor and ceiling track with 1 in long. Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members\* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
- AMERICAN GYPSUM CO -- Types AG-C. AGX-1. M-Glass. LightRoc BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX-1 CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing CGC INC -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and
- compound, Item 5, optional for use with Type USGX CERTAINTEED GYPSUM INC -- Types EGRG, GlasRoc, Type X, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX GEORGIA-PACIFIC GYPSUM LLC -- Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X
- Sheathing Type LW2X, Soffit Type LW2X, Type DGL2W, Water Rated Type DGL2W, Sheathing Type NATIONAL GYPSUM CO -- Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, SW-5, FSW-6, FSW-8, FSL, RSX. NATIONAL GYPSUM CO - Rivadh, Saudi Arabia - Type FR, or WR
- ABCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM -- Types PG-C, PG-9, PG-11, PGS-WRS, PGI PANEL REY S A -- Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE -- Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV/Air, Gyproc FireStop MR ACTIV/Air, Gyproc FireStop M2TECH ACTIV/Air, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV/Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Ai
- SIAM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX-1 THAI GYPSUM PRODUCTS PCL - Type X, Type C UNITED STATES GYPSUM CO - Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX,

field and perimeter.

- C, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX) USG BORAL ZAWAWI DRYWALL L L C SFZ -- Types C. SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX USG MEXICO S A DE C V -- Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX
- 4A. Gypsum Board\* -- (As alternate to Item 4) Nom 5/8 in thick gypsum panels with beyeled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using

ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in

CERTAINTEED GYPSUM INC -- Type X, Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, vpe SilentFX, Easi-Lite Type X-2 CGC INC -- Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD GEORGIA-PACIFIC GYPSUM LLC -- Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE -- Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gypro FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH oc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air THAI GYPSUM PRODUCTS PCL -- Type X, Type C UNITED STATES GYPSUM CO -- Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX) USG BORAL ZAWAWI DRYWALL LLC SFZ -- Types C, SCX, USGX (Joint tape and compound, Item 5. optional for use with Type USGX) USG MEXICO S A DE C V -- Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC

or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) 4B. **Gypsum Board\* --** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in. CGC INC -- Types AR, IP-AR UNITED STATES GYPSUM CO -- Types AR IP-AR

USG MEXICO S A DE C V -- Types AR, IP-AR 4C. Gypsum Board\* -- As an alternate to Items 4, 4A, and 4B -- Nom. 5/8 in. thick gypsum panels, with square edges applied horizontally. Gypsum panels fastened to framing with 1 in, long bugle head steel screws spaced a max 8 in, OC with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing. GEORGIA-PACIFIC GYPSUM LLC -- Type DGG, GreenGlass Type X

4D. Gypsum Board\* -- As an alternate to Items 4, 4A, 4B, and 4C -- Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 8 in. OC along vertical edges and 12 in. OC in the field when panels are applied vertically. When gypsum panels applied horizontally, fasten to framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and in the field. Screws spaced a max 12 in, along the top and bottom edges of the wall for both vertical and horizontal applications. hen used in widths other than 48 in., gypsum panels to be installed horizontally NATIONAL GYPSUM CO - Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, 4E. Gypsum Board\* -- (As an alternate to Items 4 through 4D) -- Installed as described in Item 4, 5/8 in, thick, 4 ft.

wide, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 12 in. NATIONAL GYPSUM CO - Type SBWB 4F. Gypsum Board\* -- (Not Shown) -- (As an alternate to Item 4 when used as the base laver on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled,

square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at RAY-BAR ENGINEERING CORP -- Type RB-LBG 4G. Gypsum Board\* -- (As an alternate to Items 4 through 4F) -- For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be ased to 12 in. OC in field and perimeter.

CERTAINTEED GYPSUM INC - Type LGFC6A, LGFC-C/A NATIONAL GYPSUM CO -- Types FSW JNITED STATES GYPSUM CO -- Type SCX, ULIX

erimeter and 12 in OC in the field

CGC INC — Type SCX, ULIX

GC INC - Types SCX UIU

CGC INC -- Type UI X

AMERICAN GYPSUM CO -- Type AG-C

CERTAINTEED GYPSUM INC -- Type

CGC INC -- Types C. IP-X2, IPC-AR

PANEL REY S A -- Types PRC, PRC2

NATIONAL GYPSUM CO -- Type FSW

nanels to be installed ho

CGC INC -- Types ULIX

wide, installed as described in Item 4.

UNITED STATES GYPSUM CO -- Type SCX

USG BORAL ZAWAWI DRYWALL SFZ LLC -- Type SCX 4H. Gypsum Board\* -- (As an alternate to Items 4 through 4G) -- Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4 PABCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM -- Type QuietRock ES 41. Gypsum Board\* -- (As an alternate to Items 4 through 4F) -- 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the

field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.

USG BORAL ZAWAWI DRYWALL SFZ LLC -- Type SCX 4J. Gypsum Board\* -- (Not Shown) -- (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over study and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).

MAYCO INDUSTRIES INC -- Type X-Ray Shielded Gypsum 4K. Gypsum Board\* -- (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) -- Nom, 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A UNITED STATES GYPSUM CO -- Type ULX USG MEXICO S A DE C V -- Type ULX 4L. Gypsum Board\* -- (Not Shown) -- (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled,

opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in OC at perimeter and 12 in OC in the field Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in, placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in, diam by max 0.085 in, thick, Compression fitted or adhered over the screw heads, Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C RADIATION PROTECTION PRODUCTS INC -- Type RPP - Lead Lined Drywall

4M. Gypsum Board\* -- (For use with Item 8) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. C. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.

CERTAINTEED GYPSUM INC - Type LGFC-C/A GEORGIA-PACIFIC GYPSUM LLC -- Types 5, DAPC, TG-C NATIONAL GYPSUM CO -- Types eXP-C, FSK-C, FSW-C

square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on

PABCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM -- Type PG-C SAINT-GOBAIN GYPROC MIDDLE EAST FZE -- Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV/Air, Gyproc FireStop MR ACTIV/Air, Gyproc FireStop M2TECH ACTIV/Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV/Air, Gyproc DuraLine MR ACTIV'Air. Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL -- Type C UNITED STATES GYPSUM CO -- Types C. IP-X2, IPC-AR, ULIX USG BORAL ZAWAWI DRYWALL LLC SFZ -- Type C USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR 4N. Wall and Partition Facings and Accessories\* -- (As an alternate to Item 4) -- Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in item 4. PABCO BUILDING PRODUCTS LLC, DBA PABCO GYPSUM -- Type QuietRock 527 40. Gypsum Board\* -- As an alternate to Items 4, 4A, 4B, and 4C -- Two layers Nom. 5/16 in. thick gypsum panels

applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in, long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in, long Type S steel screws spaced 8 in, OC along vertical edges and 12 in, OC in the field. staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.

4P. Gypsum Board\*- As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum UNITED STATES GYPSUM CO - Types ULIX

4Q. Gypsum Board\* — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min 1- 1/8 in PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13 4R. Gypsum Board\* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft NATIONAL GYPSUM CO — Type FSLX. 4S. Gypsum Board\* — As an alternate to Item 4. For use with Item 3E. Batts and Blankets\* — 5/8 in

thick, 4 ft wide, installed as described in Item 4 CERTAINTEED GYPSUM INC - Type CLLX

4T. Wall and Partition Facings and Accessories\* — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545 4U. Gypsum Board\*— (As an alternate to Item 4 when Foam Plastic insulation Item 3G is used) — Any 5/8 in. thick, 4 ft.

wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to study over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC 4V. Gypsum Board\* — (As an alternate to Item 4, for 1 hr, rating) — Nom, 5/8 in, thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of study need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. CERTAINTEED GYPSUM INC - Type X-1, SilentFX, GlasRoc, Type C 5. Joint Tape and Compound -- Vinyl dry or premixed joint compound applied in two coats to joints and screw heads: paper

tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges

6. Resilient Channel -- (Optional -- Not Shown) -- 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 6A. Steel Framing Members\* -- (Not Shown) -- As an alternate to Item 6, furring channels and Steel Framing Members as described below

a. Furring Channels -- Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to study. Channels secured to study as described in Item b. Ends of adjoining channels are overlapped 6 in and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L. b. Framing Members\* -- Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring

PAC INTERNATIONAL LLC -- Types RSIC-1 RSIC-1 (275) 6B. Framing Members\* -- (Not Shown) -- (Optional on one or both sides) -- As an alternate to Item 6, furring channel and Steel Framing Members as described below: a. Furring Channels -- Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC

perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as b. Steel Framing Members\* -- Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC -- Type Genie Clip

6C, Steel Framing Members\* -- (Optional, Not Shown) -- Furring channels and Steel Framing Members as described below: a. Furring Channels -- Formed of No. 25 MSG galv steel. Spaced 24 in. OC percendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. b. Steel Framing Members\* -- Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237R

6D. Steel Framing Members\* - (Optional, Not Shown As an alternate to Item 6) - Furring channels and Steel Framing Members as described below Furring Channels — Formed of No. 25 MSG galy steel. Spaced 24 in OC percendicular to study. Channels secured to

studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, Steel Framing Members\* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into

REGUPOL AMERICA - Type SonusClip 6E. Steel Framing Members\* - (Optional, Not Shown As an alternate to Item 6) - Resilient channels and Steel Framing Members as described below:

a. Resilient Channels - Formed of No. 25 MSG galv steel, spaced 24 in, OC, and perpendicular to study, Channels o studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8  $^{\prime}$ 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. Steel Framing Members\* — Used to attach resilient channels (Item 6Ea) to study. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip 6F Steel Framing Members\* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing

Members as described below:

Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels a Steel Framing Members\* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are frictior fitted into clips.

CI ARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip 6F. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described

Furring Channels - Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J Steel Framing Members\* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and

secured to study with No. 10 x 2 in, screw through the center hole. Furring channels are friction fit into clips. 7. Wall and Partition Facings and Accessories\* -- (Optional, Not Shown) -- Nominal 1/2 in. thick, 4 ft wide panels, for ontional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum hoard the required UL Classified ovosum board laver(s) is/are to be installed as indicated as to fastener type and spacing except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required laver(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock QR-500 and QR-510 8. Mineral and Fiber Board\* -- (Optional, Not Shown) -- For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive. Item 11, are required

HOMASOTE CO -- Homasote Type 440-32 A. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.

BLUE RIDGE FIBERBOARD INC - SoundStop 8B. Mineral and Fiber Board\* - (Optional, Not Shown) - For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fastener increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional inless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M HOMASOTE CO -- Homasote Type 440-32

9. Lead Batten Strips -- (Not Shown, For Use With Item 4E) -- Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips t have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints. 9A. Lead Batten Strips -- (Not Shown, for use with Item 4J) -- Lead batten strips, 2 in. wide, max 10 ft long with a max hickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 par head steel screws, one at the top of the strip and one at the bottom of the strip or with one min, 1 in, long min, Type S-8 par head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QC L-201f, Grades "B. C or D", Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations. 10. Lead Discs or Tabs -- (Not Shown, For Use With Item 4E) -- Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel

screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs

![](_page_4_Figure_103.jpeg)

![](_page_4_Figure_104.jpeg)

or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 10A. Lead Discs -- (Not Shown, for use with Item 4.1) -- Max 5/16 in, diam by max 0.140 in, thick lead discs ompression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f. Grades "B. C or D". Adhesive -- Not Shown -- (For use with Item 8) -- Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).
12. Wall and Partition Facings and Accessories\* -- (CLBV) (Optional, Not Shown) — For use with Items 1 to 11, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on centre in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first

layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 41 with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilien Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 4I with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board

 
 MSL
 — Reflexor membrane, SONOpan panel

 13.
 Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh
 Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with e long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center. CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh ClipsI Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2021-08-27

1. Flooring System -- The flooring system shall consist of one of the following: System No. 1

Finish Flooring -- Min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Long edges shall be T & G. System No. 2 Subflooring -- Min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Öptional) - Nom 0.010 in. thick commercial rosin-sized building paper. Finish Flooring -- Min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Long edges shall be T & G System No. 3 Subflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength

axis of panel to be perpendicular to joists with joints staggered. **Vapor Barrier** -- (Optional) - Nom 0.010 in. thick commercial asphalt saturated felt. Finish Flooring - Floor Topping Mixture\* -- Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. UNITED STATES GYPSUM CO ... Types I RK HSI RK CSC USG MEXICO S A DE C V -- Types LRK, HSLRK, CSD

Floor Mat Materials\* -- (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material. UNITED STATES GYPSUM CO -- Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25 Alternate Floor Mat Materials\* -- (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture. RASSWORX LLC -- Type SC50

System No. 4 Subflooring -- Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture\* -- Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water ELASTIZELL CORP OF AMERICA -- Type FF System No. 5

Subflooring -- Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt. Floor Mat Materials\* -- (Optional)-- Floor mat material nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture

HACKER INDUSTRIES INC -- Type Hacker Sound-Mat. Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture. HACKER INDUSTRIES INC -- Type Hacker Sound-Mat II. Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor

topping thickness shall be a min of 3/4 in. (19mm HACKER INDUSTRIES INC -- FIRM-FILL SCM 125 Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/4 in, (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mr

HACKER INDUSTRIES INC -- Type FIRM-FILL SCM 250, Quiet Qurl 55/025 Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm) HACKER INDUSTRIES INC -- FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm) HACKER INDUSTRIES INC -- Type FIRM-FILL SCM 750 Quiet Qurl 65/075

Metal Lath (Optional) -- For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in, over the floor mat. Finish Flooring - Floor Topping Mixture\* -- Min 3/4 in. thickness of floor topping mixture having a min compressive strength

of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand. HACKER INDUSTRIES INC -- Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant,

Subflooring -- Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) -- Nom 0.030 in. thick commercial asphalt saturated felt. Finish Flooring - Floor Topping Mixture\* -- Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS -- Types UQF-A, UQF-Super Blend, UQF-Plus 2000 System No. 8 Subflooring -- Min 15/32 in, thick wood structural panels, min grade "C-D" or "Sheathing", Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture\* -- Min 3/4 thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. MAXXON CORP -- Type D-C, GC, GC2000, L-R, T-F, CT, SS Floor Mat Materials\* -- (Optional) - Floor mat material loose laid over the subfloor. MAXXON CORP -- Type Encapsulated Sound Mat.

Floor Mat Reinforcement -- (Optional) - Refer to manufacturer's instructions regarding minimur thickness of floor topping over each floor mat material, primers, and use of crack suppression Metal Lath -- (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Fiber Glass Reinforcement - (Optional, Not Shown) - 0.015 in, thick PVC coated non-woven fiberglas

mesh, 0.368 lbs/sq yd loose laid over the floor mat material. System No. 9 Subflooring - Min 15/32 in. thick wood structural panels, min grade C-D or Sheathing. Face grain of plywood or rength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier - (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture\* — Min 3/4 in. thickness of floor topping mixture having a minimum pressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix Alternate Floor Mat Material\* - (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor.

Floor topping thickness shall be a minimum of 3/4 in. IULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2 System No. 10 Subflooring -- Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in.

thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Finish Flooring - Mineral and Fiber Board\* -- Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints. HOMASOTE CO -- Type 440-32 Mineral and Fiber Board System No. 11 ubflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or

strength axis of panel to be perpendicular to joists with joints staggered por Barrier -- (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt. Finish Flooring - Floor Topping Mixture\* -- Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Portland cement, 300 lbs of sand with 5-1/2 gal of water. AERIX INDUSTRIES -- Floor Topping Mixture

System No. 12 Subflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt. Finish Flooring - Floor Topping Mixture\* -- Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. ARCOSA SPECIALTY MATERIALS - AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30 Alternate Floor Mat Material\* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor.

Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively ARCOSA SPECIALTY MATERIALS - AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, A.250S, EM.375, EM.375S, EM.750, and EM.750S. System No. 13 Subflooring -- 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood

or strength axis of panels to be perpendicular to joists with joints staggered. Vapor Barrier -- (Optional) -- Nom 0.030 in. thick commercial asphalt saturated felt. Finish Flooring -- Floor Topping Mixture\* -- Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's ictions accompanying the material for specific mix design. System No. 14

Subflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggere Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Vapor Barrier -- (Optional) - Nom 0.010 in, thick commercial rosin-sized building paper

Finish Flooring\* -- Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Floor Mat Materials\* -- (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a mum of 3/4 ir KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor opping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor

topping thickness shall be a minimum of 1-1/2 in. KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 65/075, Quiet Qurl 65/075 N Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC -- Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT Subflooring -- Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain

System No. 15

minimum of 3/4 in.

Sleeper pads to the joist.

GEORGIA-PACIFIC GYPSUM LLC -- Type DS

of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Gypsum Board\* -- One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in long No. 6 Type W bugle head steel screws spaced 12 in OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

Floor Mat Materials\* -- (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the MAXXON CORP -- Type Encapsulated Sound Mat Gypsum Board\* -- (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the

GEORGIA-PACIFIC GYPSUM LLC -- Type DS System No. 16 Subflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. por Barrier -- (Optional) -- Nom 0.030 in. thick commercial asphalt saturated felt. Finish Flooring - Floor Topping Mixture\* -- Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in.

thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. EPENDABLE LLC -- GŠL M3.4, GSL K2.6, GSL-CSD and GSL RH Floor Mat Materials\* -- (Optional) - Nom 1/4 in thick loose laid over the subfloor Floor topping thickness shall be a

KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor ing thickness shall be a minimum of 1 in

KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor oping thickness shall be a minimum of 1-1/2 in. KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N Alternate Floor Mat Materials\* -- (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible

fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC -- Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT System No 17 Subflooring — Min 15/32 in. thick plywood or 7/16 in. thick oriented strand board (OSB) wood structural panels, min

grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints Wall and Partition Facinos and Accessories\* - Sound Barrier (Optional) — Acoustic Sleeper pads stapled to the top of the subfloor, the bottom of the finish floor, or to 5/16 in. thick by 1-1/2 in. wide wood strips and centered over joists. Acoustic Sleeper pads are to be spaced appropriately so that the finish floor panels are fastened through Acoustic

STC ARCHITECTURAL PRODUCTS L L C DBA STC SOUND CONTROL -Acoustic Sleeper Finish Floor — Min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered. Butt joints of panels nave the option of being sealed with any UL Classified caulk or sealant found under - Fill, Void or Cavity System No. 18 Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of

plywood or strength axis of panel to be perpendicular to joists with joints staggered Finish Flooring - Floor Topping Mixture\* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus System No. 19

Finish Flooring - 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick. Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial rosin-sized building pape

Finish Flooring - Floor Topping Mixture\* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Floor Mat Materials\* - (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material. LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus. Floor Mat Reinforcement - (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement. Metal Lath - (Optional) - Expanded steel diamond mesh. 2.5 lb / sq vd loose laid over floor mat material.

iberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floo 2. Flooring Fasteners -- (Not Shown) - The subflooring (first layer) of each floor system and finish flooring of System No. 1 are to be fastened to the steel joists with Type S12 by 1-15/16 in. long self-drilling, pilot point, steel screws. The screws are to be spaced 6 in. OC around the perimeter of the floor and at all end (butt) joints of the panels. Spacing in the field to be 10 in. OC. For flooring System No. 2, the finish flooring is to be fastened to the subflooring with Type S12 by 2 in. long steel screws spaced 6 in. OC around the perimeter of the floor

and at all end (butt) joints of the finish flooring panels. Spacing in the field to be 10 in. OC with rows of screws spaced 16 in. OC. 3. Structural Steel Member -- Min W8 x 15 wide flange steel beam. 4. Steel Joists -- The joists are channel-shaped, min 7 in. deep with min 1-5/8 in. wide flanges and 1/2 in. long stiffening flanges. The joists are fabricated from min No. 18 MSG galv steel. Min yield strength of steel is either 33,000 or 40,000 psi with corresponding max working stress of 20,000 and 24,000 psi. Joists spaced max 24 in. OC. At joist splices bearing on supports, joists are overlapped a min of 3 in. When ceiling damper (Item 8) is used, min joist depth is 14 in. 5. Joist Stiffeners -- (Not Shown) - Channel-shaped stiffeners, made from min No. 18 MSG galv steel.

Stiffeners are 6-13/16 in. long, 3-1/2 in. deep with 1-5/8 in. flanges and 1/2 in. stiffening flanges. The joist stiffeners are used at all bearing locations of the joists. 6. Joist Bridging -- (Not Shown) - Installed immediately after joists are erected and before construction loads are applied. The bridging consisting of joist section cut to length and placed between outer supports, adjacent to openings and at mid span with 8 ft OC max spacing. Bridging channels are screw-attached at each end to joist webs using angle clips. V-bracing of 1-1/2 in. by 20-gal galvanized steel is screw-attached to bottom joist flange etween bridging channels.

A. Horizontal Joist Bridging -- Used in lieu of Item 6 in same joist bay as ceiling damper (Item 8), when ceiling damper is employed. Joist section cut to length and secured to joists above bottom flanges with Type S12 screws and 1-1/2 by 1-1/2 in. No. 18 MSG galv steel angles. 7. Beam Cage -- The cage used to support the gypsum board beam protection is fabricated from No. 24 MSG electrogalvanized steel angle with 7/8 by 1-3/8 in. legs and No. 25 MSG, electrogalvanized steel channel studs, 2-1/2 in. wide with 1 in. legs. Angles are fastened to the steel joists using 1/2 in. pan head steel sheet metal

8. Ceiling Damper\* -- (Optional) - Max nom area shall be 198 sg in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 13) shall be installed in accordance with installation instructions. RUSKIN COMPANY -- Model CFD7

9. Ceiling Damper Support -- (Not Shown) - Provided with ceiling damper. Support secured to ceiling damper defining balance approximation of the second perpendicular to joists. Base layer attached to steel joists using 1 in. long, Type S12 bugle head steel screws spaced 8 in. OC along butt joints and 12 in. OC in field along the joists. Butt joints to occur beneath joists with

crews located 1/2 in. for the butt joints. Outer layer attached to assembly using 1-1/2 in. long, Type G bugle head steel screws spaced 8 in. OC along butt joints and with 1-5/8 in. long. Type S12 budle head steel screws paced 12 in. OC in the field along the joists. Butt joints of outer layer to occur between joists with screws located 3/4 in from the buttioints. Edge joints to be staggered between layers. For Beam - Two layers of 1/ in. thick gypsum board fastened to beam cage. Inner layer secured using 1 in. long, Type S12 bugle head steel screws spaced 12 in. OC and outer layer fastened to cage using 1-5/8 in. long, Type S12 bugle head steel crews spaced 12 in. OC. Joints are to be staggered between layers

AMERICAN GYPSUM CO -- Type AG-C CABOT MANUFACTURING ULC - Type CERTAINTEED GYPSUM INC -- Type

CGC INC -- Type C, IP-X2 CERTAINTEED GYPSUM INC - Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM LLC -- Types 5, DAPC, TG-C NATIONAL GYPSUM CO -- Types eXP-C\_ESK-C\_ESW-C

PABCO BUILDING PRODUCTS LLC. DBA PABCO GYPSUM -- Type PG-C PANEL REY S A -- Type PRC THAI GYPSUM PRODUCTS PCL -- Type C

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - Type ( UNITED STATES GYPSUM CO -- Type C. IP-X2

USG BORAL ZAWAWI DRYWALL LLC SFZ -- Type USG MEXICO S A DE C V -- Type C, IP-X2 10A. Gypsum Board\* — (Not Shown)- As an alternate to Item 12. Two layers of nom 5/8 in. thick by 48 in. wide ypsum board installed as described in Item 10

GC INC — Type ULIX UNITED STATES GYPSUM CO - Type III IX 11. Steel Framing Members\* -- As an alternate to the direct attachment of the Gypsum Board\* (Item 10), Steel Framing Members\* and Gypsum Board\* (Item 12) may be installed beneath the bottom flange of the steel

a. Main Runners -- Nom 12 ft long, with 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC, installed perpendicular to steel beam. Main runners hung a min of 2 in, below bottom chord of steel beam and secured to steel joists with No. 12 SWG galv steel wire, spaced a max of 48 in. OC. b. Cross Tees or Channels -- Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long ross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in, from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation. c. Wall Angles or Channels -- Used to support steel framing member ends and for screw-attachment of the

gypsum board. Painted or galvanized steel angles with 1 in. legs or channels with 1 in. legs and 1-9/16 in. deep, attached to walls at perimeter of ceiling with fasteners 16 in. OC. CGC INC -- Type DGL or RX USG INTERIORS LLC -- Type DGL or RX. 2. Gypsum Board\* -- Two layers of nom 1/2 in. thick by 48 in. wide gypsum board for use with Steel

Framing Members\*. Base layer installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Base layer fastened to cross tees with 1-1/4 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. End joints of adjacent gypsum board sheets shall be staggered not less than 4 ft OC. Outer layer attached to the cross tees through inner layer using 1-7/8 in. long Type S bugle-head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints to be centered along cross tees and be

offset a min of 32 in, from end joints of inner laver. Rows of screws on both sides of butted end joints of each layer shall be located 3/8 to 1/2 in. from end joints. Butted side joints of outer layer to be offset a min of 18 in. rom butted side joints of inner laver. CGC INC -- Type C, IP-X2.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - Type C UNITED STATES GYPSUM CO -- Type C, IP-X2. USG BORAL ZAWAWI DRYWALL SFZ LLC -- Type C

USG MEXICO S A DE C V -- Type C. IP-X2. 3. Grille -- Steel grille, installed in accordance with the installation instructions provided with the ceiling

14. Discrete Products Installed in Air-handling Spaces\* -- Automatic Balancing Valve/Damper -- (Not Shown - Optional) -- For use with item 8, Ruskin Company's Model CFD7 damper (CABS). Ceiling damper to be provided with plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed into any UL Class 0 or Class 1 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacture METAL INDUSTRIES INC -- Model ABV-4 ABV-5 ABV-6

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively Last Updated on 2021-06-09

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FISHER AND ASSOCIATES, LLC	ARCHITECTS PLANNERS	2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-4436
U.L. DETAILS	HEARTLAND DENTAL WINTER GARDEN	AVALON & MARSH RD WINTER GARDEN, FL 34787
RELEA BID PERMI CONST	SED FO 1 T TR.	R: 2.11.23
	IONS:	
REVIS		-
REVIS		
REVIS		

![](_page_5_Figure_0.jpeg)

![](_page_5_Picture_1.jpeg)

![](_page_5_Figure_3.jpeg)

![](_page_6_Figure_0.jpeg)

![](_page_6_Figure_3.jpeg)

WILLIAM JOE FISHER ARCHITECT 0010829

A100

Project Date: 1/31/23

roject No.: 223001

COLORS FOR ARCHITECT APPROVAL PRIOR TO COMMENCEMENT OF BLOCK INSTALLATION. SAMPLES MUST BE APPROVED BY ARCHITECT PRIOR TO FINISH INSTALLATIONS.

(8)

- 13. BUSINESS NAMES AND SUITE NUMBERS SHALL BE DISPLAYED AT ALL MAIN EGRESS DOORS.
- 14. ALL EXPOSED FASTENERS ON PROJECT SHALL HAVE PRE-DRILLED HOLES FILLED WITH SEALANT PRIOR TO INSTALLING FASTENERS.

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_8_Figure_2.jpeg)

WILLIAM JOE FISHER

ARCHITECT 0010829

A110

Project Date: 1/31/23

Project No.: 223001

![](_page_9_Figure_0.jpeg)

![](_page_9_Picture_1.jpeg)

![](_page_9_Figure_3.jpeg)

![](_page_9_Figure_4.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_10_Figure_2.jpeg)

47

WILLIAM JOE FISHER ARCHITECT 0010829

A120

Project Date: 1/31/23

roject No.: 223001

![](_page_11_Figure_3.jpeg)

![](_page_11_Figure_4.jpeg)

ENTRY CANOPY ROOF PLAN

A121

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<b>ISTER AND ASSOCIATES</b> IT C				2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-4436
SHELL ENTRY CANOPY ROOF PLAN	HEARTLAND DENTAL	<b>WINTER GARDEN</b>	AVALON & MARSH RD	MINTER GARDEN, FL 34787
	ASEE MIT STR. SION EV-C	D FOF	R: 2.11.2	3.23
WILL	LIAM CHITE <b>A</b>	JOE CT 0	FISHI 0108	ER 29

![](_page_12_Figure_0.jpeg)

![](_page_12_Picture_1.jpeg)

![](_page_12_Figure_3.jpeg)

118 TREATMENT 9

119 TREATMENT 10

122 EQUIPMENT

125 BREAKROOM 126 MED GAS

121

123

120 TREATMENT SUITE 1

LAUNDRY

124 STAFF RESTROOM

TREATMENT SUITE 2

	-			1	<u>R001</u>	<b>A FINISH LEGEND</b> * NOT ALL FINISHES MAY BE USED. REFER TO ROOM FINISH SCHEDULE					
ING	MARK	MATERIAL		ARMSTRO	PRODUCT DESCRIPTION ARMSTRONG; CANYON BEVELED TEGULAR: 24" x 24" x 5/8": WHITE: PRELUDE XL 15/16" FXPOSED						
IAL	AT-1	ACOUS	STIC TILE	TEE GRID	- WHITE						
V/	CT-1	CARP	PET TILE	PATCRAF	T; CUSTOM S	STYLE CT83770; 9" x 36"; 26OZ					
FINISH,	LT-1	LUXURY	VINYL TILE	PATCRAF	T; NSP INSET	2.5MM; PURE GOLD; 18" x 36"; LAID IN STAGGER PATTERN					
	PL-1	PLASTIC	LAMINATE	WILSONA	RT; STANDAF	2D LAMINATE; GHOST MAPLE YO694-38; FINE VELVET FINISH; VERTICAL GRAIN					
	PL-2	PLASTIC	LAMINATE	WILSONA	WILSONART; PREMIUM LAMINATE; POLISHED CONCRETE 5022K-37; FINE VELVET FINISH						
	PL-3	PLASTIC	LAMINATE	WILSONAI VERTICAL	WILSONART; DECORATIVE METAL; RIBBONED SATIN BRUSHED; PALLADIUM L6445 (408); VERTICAL GRAIN						
)N	PL-4	PLASTIC	LAMINATE	WILSONA	WILSONART; PREMIUM LAMINATE; HIGH LINE 7970K-18; LINEARITY FINISH; VERTICAL GRAIN						
	PL-5	PLASTIC	LAMINATE	WHITE ME	ELAMINE; (ST	ORAGE SHELVING)					
	PT-1	P/	AINT	SHERWIN	WILLIAMS; S	W 9165 "GOSSAMER VEIL"; EG-SHEL; SEE FINISH NOTES					
	PT-2	PA	AINT	SHERWIN WATER-BA	WILLIAMS; S ASED EPOXY	W 7675 "SEAL SKIN"; EG-SHEL; PRO-INDUSTRIAL PRE-CATALYZED (ACCENT PAINT)					
	PT-3A	P/	AINT	SHERWIN	WILLIAMS; S	W 7507 "STONE LION"; EG-SHEL; SEE FINISH NOTES (NEUTRAL ACCENT PAINT)					
	PT-3B	P/	AINT	SHERWIN	WILLIAMS; S	W 9149 "INKY BLUE"; EG-SHEL; SEE FINISH NOTES (BLUE ACCENT PAINT)					
	PT-3C	P/	AINT	SHERWIN	WILLIAMS; S	W 6181 "SECRET GARDEN"; EG-SHEL; SEE FINISH NOTES (GREEN ACCENT PAINT					
	PT-4	P/	AINT	SHERWIN	WILLIAMS; S	W 7004 "SNOWBOUND"; FLAT; SEE FINISH NOTES (CEILING PAINT)					
	PT-5	P/	AINT	SHERWIN	WILLIAMS; S	W 9174 "MOTH WING"; SEMI-GLOSS; SEE FINISH NOTES (12 O'CLOCK WALL TRIM)					
	PT-6	PA	AINT	SHERWIN WATER-BA	WILLIAMS; S ASED EPOXY	W 9605 "CLOVE"; SEMI-GLOSS; PRO-INDUSTRIAL PRE-CATALYZED (HM DOORS & FRAMES)					
	RB-1	RESILIE	ENT BASE	TARKETT; 176 BRASS	TARKETT; JOHNSONITE MILLWORK WALL FINISHING SYSTEM; 5-1/4" INFLECTION WALL BASE; 176 BRASS; INSIDE & OUTSIDE CORNERS TO BE MITERED						
	RB-2	RESILIE	ENT BASE	TARKETT; JOHNSONITE TRADITIONAL VINYL 1/8"; 4" WALL BASE, 24 GREY HAZE							
	RB-3	RESILIE	ENT BASE	TARKETT;	TARKETT; JOHNSONITE TRADITIONAL VINYL 1/8"; 4" TOELESS WALL BASE, 24 GREY HAZE (MILLWORK TOEKICK ONLY)						
l	SC-1	SEALED	CONCRETE	SHERWIN SEE FINIS	SHERWIN WILLIAMS; CONFLEX; 7% SILOXANE WATER REPELLENT; CF31T0007 CLEAR; SEE FINISH NOTES						
	SS-1	SOLID SURFACE		WILSONA	RT; TUMBLED	STONE 9220CE					
	SS-2	SOLID	SURFACE	WILSONA	RT; CRAFTED	COLLECTION; MONTE AMIATA 9911SS (CHECK-IN / CHECK-OUT COUNTER)					
1	TL-1	PORCELAIN TILE		AMERICAN TEC POW SHOWN O	AMERICAN OLEAN; MIRASOL; BIANCO CARRERA ML70; 12" x 24" MATTE RECTIFIED; STACK PATTERN; TEC POWER GROUT - 909 STERLING; 1/8" GROUT JOINTS. FLOOR TILE TO BE CENTERED IN ROOM AS SHOWN ON FINISH PLAN; REFER TO ENLARGED RESTROOM SHEETS FOR WALL TILE LAYOUT						
	TS-1	TRANSIT	ION STRIP	PATCRAF VINYL TILE	T; MICROTRA E TO CARPET	NSITION; S316V; .28"; 00100 CHAMPAGNE; FOR TRANSITION OF LUXURY ; SEE INTERIOR DETAIL SHEETS					
E.	TS-2	TRANSIT	ION STRIP	SCHLUTE	SCHLUTER; RENO-TK; ATK 125ATGB; BRUSHED NICKEL; FOR TRANSITION OF CARPET TO TILE; SEE INTERIOR DETAIL SHEETS						
	TS-3	TRANSIT	ION STRIP	PATCRAF	PATCRAFT; CARPET REDUCER; S137V; 5/16"; 00066 SLATE; FOR TRANSITION OF CARPET TO						
	TS-4	TRANSIT	ION STRIP			ER; 184PS; 3.5MM LVT REDUCER; DARK BRONZE; FOR TRANSITION OF					
	TS-5	TRANSIT	ION STRIP	SCHLUTE	R; QUADEC E	DGE TRIM; Q80TSBG; GREIGE; FOR TRANSITION OF WALL TILE TO GYP					
	TS-6	TRANSI		SCHLUTE	R; RENO-U; A	U 125ATGB; BRUSHED NICKEL; FOR TRANSITION OF LUXURY VINYL TILE					
	WC.1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		TO TILE; S	SEE INTERIOF	R DETAIL SHEETS RING; PUZZLE PIECE AZ53328PZ; PEWTER; 52-54" W;					
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									
	WS-1	WOO		ARMSTRC SPACING,	NG; WOODW BACKER ON	/ORKS GRILLE - CLASSICS; 7266BO (5/8" W x 2-1/4" H SLATS W/ 7/8" LY); WARM OAK (GWO); HEAVY DUTY 15/16" PRELUDE XL GRID - BLACK;					
		R				ANELS					
र	CEIL	ING		MILL	work						
<b>IALL BASE</b> RB-1, RB-3	MATERIAL AT-1, WS-1	FINISH	WALL FINISH PT-1, PT-2,	CABINET PL-1	TOP SS-2	COMMENTS REFER TO INTERIOR ELEVATIONS					
RB-1	AT-1, GYP BE	) PT-4	WC-1 PT-1		-	REFER TO INTERIOR ELEVATIONS					
RB-1 RB-1	AT-1, GYP BE AT-1, GYP BE	) PT-4 ) PT-4	PT-1, WC-1 PT-1		-	REFER TO INTERIOR ELEVATIONS. SEE ALL 12 O'CLOCK WALLS. REFER TO INTERIOR ELEVATIONS					
RB-1	AT-1, GYP BE	) PT-4	PT-1, WC-1			REFER TO INTERIOR ELEVATIONS. SEE ALL 12 O'CLOCK WALLS.					
RB-3	AI-1, GYP BL		PI-1	PL-1	55-2, PL-2						
кв-2 RB-1, RB-3	AT-1 AT-1		PI-1 PT-1	 PL-1	PL-2 PL-2	 					
RB-1, RB-3	AT-1		PT-1	PL-1	SS-1						
	AT-1 AT-1		PT-1, TL-1	PL-4 PI-4		REFER TO INTERIOR ELEVATIONS					
RB-2	AT-1		PT-1		PL-5						
B-1, RB-2,	AT-1		PT-1	PL-1	SS-1						

SS-1 REFER TO INTERIOR ELEVATIONS

PL-1

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SS-1

SS-1

PL-1 -- --

-- |--

 PT-1, TL-1
 PL-4
 - REFER TO INTERIOR ELEVATIONS

 PT-1
 PL-1
 PL-2
 -

PT-1, PT-3A

PT-1

PT-1

PT-1

PT-1

PT-1, PT-3A PL-1

PT-4

PT-4

PT-4

PT-4

PT-4

PT-4

--

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LT-1 RB-2 GYP BD PT-4 PT-1 -- -- --

AT-1, GYP BD

AT-1

AT-1

AT-1

AT-1

AT-1

AT-1

RB-1, RB-3

RB-1. RB-3

RB-1, RB-3

RB-1, RB-3

RB-2

RB-2

--

LT-1 RB-2, RB-3

LT-1

LT-1

LT-1

SC-1

SC-1

TL-1

AT-1, GYP BD PT-4

AT-1, GYP BD PT-4

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![](_page_13_Picture_1.jpeg)

ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL #	COMMENTS
CHR-01	1	SOFA 2 1/2 SEAT LOUNGE, U LEG WOOD, NON-TUFTED BACK	National Office Furniture	N74M2AUW	TELLARO LOUNGE COLLECTION. FABRIC: DESIGNTEX "HYDE", COLOR: CLAY # 3888-702 LEG FINISH: CINDER 462
CHR-02	2	LOUNGE CHAIRS 1 SEAT LOUNGE, U LEG WOOD, NON-TUFTED BACK"	National Office Furniture	N74M1AUW	TELLARO LOUNGE COLLECTION. SEAT & BACK FABRIC: DESIGNTEX "HYDE", COLOR: PITCH #3888-802 FRAME FABRIC: DESIGNTEX "SHORTCUT", COLOR: PRINT #3810-803 LEG FINISH: CINDER 462
CHR-03	1	ACCENT CHAIRS MIDBACK LOUNGE, ARMS	National Office Furniture	N58L1MUA	HOBSEN COLLECTION. FABRIC: DESIGNTEX "CHUNKY TWEED", COLOR: CHARCOAL #3172-803 ACCENT FABRIC: DESIGNTEX "TAILOR" COLOR: GRAPHITE #3163-802 FRAME FINISH: SABLE 792
CHR-04	5	WALL SEATING	National Office Furniture	N59AA	ACQUAINT, HALF UPHOLSTERED BACK, EXPOSED WOOD SLATS FABRIC: DESIGNTEX "REIN", COLOR: GRAPHITE #3010-803 FRAME FINISH: KONA (KN) SABLE (792)
CHR-05	1	WALL SEATING - BARIATRIC CHAIR	National Office Furniture		ACQUAINT, HALF UPHOLSTERED BACK, EXPOSED WOOD SLATS FABRIC: DESIGNTEX "REIN", COLOR: GRAPHITE #3010-803 FRAME FINISH: KONA (KN) SABLE (792)
CHR-06	2	BAR HEIGHT STOOL	National Office Furniture		GRIN - STOOL - BAR HEIGHT - WOOD BACK "GRIN" 4-LEG WOOD FRAME BAR-HEIGI STOOL. WOOD LEGS: SABLE (792) UPHOLSTERY - FRONT/SEAT: DESIGNTEX "REIN" COLOR: GRAPHITE #3010-803 WITH 2-1/2" STITCHING DETAIL BACK: DESIGNTEX "JUMPER", COLOR: FINCH #3878-803
CHR-07	9	OFFICE CHAIR	HON	HCT1MM	CONVERGENCE MID BACK TASK CHAIR. BLACK WITH CHROME FINISH
CHR-08	6	BREAK ROOM CHAIR	National Office Furniture	NBLACK208	"DITTO" PLASTIC GUEST STACKER. COLOR: BLACK 208
OTR-01	1	CREDENZA	Uttermost	24773	LAYTON CONSOLE CABINET. UPC #:792977247730
OTR-02	1	WALL MIRROR	Uttermost	09849	PARADISE ROUND MIRROR. 39W x 39H x 2D
OTR-03	3	BATHROOM STORAGE RACK	<varies></varies>	(20418) 55508	BLACK, WITH 4 FOLDABLE CORN HUSK BASKETS
TBL-01	1	COFFEE TABLE	National Office Furniture	88NA304816TTRLW	WIXLER - SOFT TRIANGLE TABLE - 30D X 48W X 16H - EXPOSED RIM. LAMINATE: CINDER 462, LEGS: IRON
TBL-02	1	COFFEE TABLE	National Office Furniture	88NA284816TPRLW	WIXLER - PEAR TABLE - 28D X 48W X 16H - EXPOSED RIM. LAMINATE: SABLE 792, LEGS: IRON
TBL-03	1	BAR HEIGHT TABLE	National Office Furniture		UNIVERSAL TABLE & BASE. LAMINATE: FROSTY WHITE BASE: CINDER
TBL-04	2	SQUARE END TABLE	National Office Furniture		"RENO" SQUARE END TABLE. LAMINATE: SABLE LEG: CINDER PAINT OPTIONAL GLASS TOPPER
TBL-05	2	ROUND END TABLE	National Office Furniture		WIXLER - ROUND. LAMINATE: CINDER, LEGS: IRON
TBL-07	1	BREAK ROOM TABLE	National Office Furniture		LAMINATE TOP: SABLE BASIC T-LEGS IN CINDER #462

				SIGNAGE SC	HEDULE	
ITEM #	QTY	DESCRIPTION	MANUFACTURER	Model #	COMMENTS	
D-19	1	RESTROOM SIGNAGE (MEN)	NONE	N.A.	G.C. to provide specification sheet to HD CPM for approval	
D-20	1	RESTROOM SIGNAGE (WOMEN)	NONE	N.A.	G.C. to provide specification sheet to HD CPM for approval	
D-21	1	RESTROOM SIGNAGE (UNISEX)	NONE	N.A.	G.C. to provide specification sheet to HD CPM for approval	
D-24	1	COVER YOUR COUGH (OSHA)	NONE	N.A.		
D-25	1	MEDICAL GAS (CAUTION)	NONE	N.A.		
D-26	1	MEDICAL GAS (TANK ROOM INSTRUCTIONS)	NONE	N.A.		
D-27	4	LIFE SAFETY PLAN (FRAMED)	NONE	N.A.		
D-28	1	HVAC ZONING PLAN (FRAMED)	NONE	N.A.		
				DECOR SCH	IEDULE	
ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL #	COMMENTS	
D-01	1	OFFICE ART	NONE	8089		
D-12	1	Smile Photo (20"x24")	NONE	Custom	Final selection by Heartland Dental operations	
D-13	1	FINANCING POSTER (20"x30")	NONE	N.A.		
D-15	5	CROWNS POSTER (20"x30")	NONE	N.A.		
D-16	5	FLUORIDE POSTER (20"x30")	NONE	N.A.		
D-17	1	Periodontal Disease Poster (20"x30")	NONE	OC162_4		
D-18	1	Oral Cancer Poster (20"x30")	NONE	OC157_2		
D-22	2	Restroom Signage (Girly)	NONE	N.A.		
D-23	18	Wash Your Hands (OSHA)	NONE	NA		

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STIES AND ASSOCIATES IT C				2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-4436
	HEARTLAND DENTAL	MINTER GARDEN		WINTER GARDEN, FL 34787
	SION	S:		
WIL ARC Proje Proje	LIAM CHITE A ct Dat ct No.	JOE CT 0 <b>14'</b> e: 1/ : 22	FISH 0108 <b>1</b> <u>31/23</u> 2300	IER 329 3

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MARK					
	QTY	DESCRIPTION	MANUFACTURER	MODEL #	COMMENTS
A-6	1	COFFEE BREWER (12 CUP)	MR. COFFEE	VBX23-NP	
A-11	1	BEVERAGE FRIDGE	EDGESTAR	BWC91SS	17" WIDE, 4.61 CU. FT., STAINLESS BLACK / STAINLESS STEEL FINISH
A-12	1	REFRIGERATOR	WHIRLPOOL	WRT318FMDS	30" WIDE, TOP FREEZER, 18 CU. FT., STAINLESS STEEL FINISH.
A-13	1	MICROWAVE OVEN	WHIRL POOL	WMC30309LS	19" WIDE, 0.9 CU, FT., 900 WATT COOKING POWER, STAINLESS STEEL FINIS
A-14	1	COFFEE BREWER	KEURIG	B140 OFFICE PRO	
A-15	1	FRONT LOAD WASHER	WHIRI POOL	WFW5605MW	27" WIDE 4.5 CIL ET WHITE FINISH
A-10		TRONT LOAD WACHER	WINNEL OOL	WI W3003WW	ACCESSORIES:
					PROFLO 72" EPDM RUBBER WASHER HOSE IN BLACK (PFWMH6PR) WHIRLPOOL 1" STACKING KIT (W10869845) **ONLY REQUIRED WHEN WASHER/DRYER ARE IN STACKED CONFIGURATION. REFER TO PLANS
A-16	1	FRONT LOAD DRYER	WHIRLPOOL	WED5605MW	27" WIDE, 7.4 CU. FT., WHITE FINISH
					ACCESSORIES: DEFLECTO SUPURR-FLEX 4" x 5' ALUMINUM FLEX DRYER DUCT W/ CLAMP PRIME 30-AMP 4', 4-WIRE 120/250V DRYER CORD **ONLY REQUIRED FOR 4-WIRE RECEPTACLES, REFER TO ELECTRICAL DWGS
	J I	<u>E(</u>	QUIPMENT SCHE	DULE - ACCES	SORIES PRO
Item #	Count	Description	Manufacturer	Model #	Comments
A-01	15	PAPER TOWEL HOLDER	BOBRICK	B-262	OWNER TO VERIFY MOUNTING LOCATIONS
A-02	12	X-RAY BUMPER GUARD	NATIONAL HARDWARE	V337	
A-07	19	COAT HOOK	NATIONAL HARDWARE	V163	OWNER TO VERIFY MOUNTING LOCATIONS
A-09	1	Mop / Broom Holder	Bobrick	B-223 x 24	
A-17	3	HAND DRYER	Bobrick	B-7128	G.C. TO PROVIDE BLOCKING & POWER REQUIRED FOR INSTALLATION
A-19	3	Recessed Fire Extinguisher Cabinet	Ambassador	1710	
A-21	1	Dry Erase Board (30x18)			
A-22	3	42" HORIZONTAL GRAB BAR	Bobrick	B-5806 x 42	
A-23	3	36" HORIZONTAL GRAB BAR	Bobrick	B-5806 x 36	
Δ_24	3		Bobrick	B-5806 x 18"	
A 25	3		Bobrick	B 600	
A 26	2			D-033	
A-20	2		NONE	N.A.	
Item #	Count		Manufacturer	- DENIAL EQUI	Comments
A-03	12				
A-4 A 04	1				
A-04					
	10			24050	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09	12	DOCTOR'S CHAIR	BREWER	3125B	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10	12 12	DOCTOR'S CHAIR ASSISTANT STOOL	BREWER BREWER	3125B 3145L	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01	12 12 12 12	DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER	BREWER BREWER DCI	3125B 3145L SERIES 5	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02	12 12 12 12 2	DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE	BREWER BREWER DCI N.A.	3125B 3145L SERIES 5 N.A.	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03	12 12 12 12 2 1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner	BREWER BREWER DCI N.A. HENRY SCHEIN	3125B 3145L SERIES 5 N.A. Maxissweep S3100	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04	12 12 12 2 1 1 1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05	12 12 12 12 2 1 1 1 1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70	OWNER TO VERIFY MOUNTING LOCATIONS
HR-09 HR-10 E-01 E-02 E-03 E-04 E-05 E-06	12 12 12 2 1 1 1 1 1 1 1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08	12 12 12 2 1 1 1 1 1 1 1 1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall)	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08 E-09	12 12 12 2 1 1 1 1 1 1 1 2	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08 E-09 E-10	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5	OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08 E-09 E-10 E-11	12       12       12       12       12       12	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS	OWNER TO VERIFY MOUNTING LOCATIONS OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12	12       12       12       12       12       12       12	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS	OWNER TO VERIFY MOUNTING LOCATIONS OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08 E-09 E-10 E-11 E-11 E-12 E-13	12       12       12       12       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       2       12       12       12       12       12       12       2	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14	12       12       12       12       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       2       12       12       12       12       12       12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch)	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         Image: Comparison of the second seco
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel	OWNER TO VERIFY MOUNTING LOCATIONS       OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         F-16	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10	OWNER TO VERIFY MOUNTING LOCATIONS       OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         E-16         F-18	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5	OWNER TO VERIFY MOUNTING LOCATIONS       OWNER TO VERIFY MOUNTING LOCATIONS
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         E-16         E-18         E-20	12       12       12       12       12       1       1       1       12	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMAL GAM SEPARATOP	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOL ETEX	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hp5	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet         110 volt outlet above ceiling
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         E-16         E-18         E-20	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet         110 volt outlet above ceiling         See Plumbing         1/4" air line with 59 to 97 pair air processor 45 pair page
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         E-16         E-18         E-20         E-21	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX KAVO	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet         110 volt outlet above ceiling         See Plumbing         1/4" air line with 58 to 87 psi air pressure, 45 psi max.
CHR-09         CHR-10         E-01         E-02         E-03         E-04         E-05         E-06         E-08         E-09         E-10         E-11         E-12         E-13         E-14         E-15         E-16         E-18         E-20         E-21         E-22	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE Intraoral Scanner	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX KAVO ITERO	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5 Element	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         Image: Comparison of the state
CHR-09           CHR-09           CHR-10           E-01           E-02           E-03           E-04           E-05           E-06           E-08           E-09           E-10           E-11           E-12           E-13           E-14           E-15           E-16           E-18           E-20           E-21           E-22           E-23	12       12       12       12       1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE Intraoral Scanner MED-GAS SHUT-OFF ZONE VALVE	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX KAVO ITERO Parker Porter	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5 Element Sentinel 9000-1	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO VERIFY MOUNTING LOCATIONS         Image: Colspan="2">Image: Colspan="2" Image:
CHR-09           CHR-09           CHR-10           E-01           E-02           E-03           E-04           E-05           E-06           E-08           E-09           E-10           E-11           E-12           E-13           E-14           E-15           E-16           E-18           E-20           E-21           E-22           E-23           H-03	12       12       12       12       1       2	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE Intraoral Scanner MED-GAS SHUT-OFF ZONE VALVE N2O STORAGE TANK	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX KAVO ITERO Parker Porter AIRGAS	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5 Element Sentinel 9000-1	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet         110 volt dedicated outlet         110 volt outlet above ceiling
CHR-09           CHR-10           E-01           E-02           E-03           E-04           E-05           E-06           E-08           E-09           E-10           E-11           E-12           E-13           E-14           E-15           E-16           E-18           E-20           E-21           E-22           E-23           H-03           H-04	12         12         12         12         1         2         2         2         1         1         2         2         2         2         2         2         2         2          2          1          1          1          1          2          2          2          1          1          1          1	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE Intraoral Scanner MED-GAS SHUT-OFF ZONE VALVE N2O STORAGE TANK	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX KAVO ITERO Parker Porter AIRGAS AIRGAS	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5 Element Sentinel 9000-1	OWNER TO VERIFY MOUNTING LOCATIONS OWNER TO VERIFY MOUNTING LOCATIONS REFER TO VERIFY MOUNTING LOCATIONS REFER TO BLOCKING DETAILS 110 volt dedicated outlet 110 volt dedicated outlet See Plumbing 1/4" air line with 58 to 87 psi air pressure, 45 psi max. 8" min. clear floor space required 493 Cu. Ft. capacity 251 Cu. Ft. capacity 251 Cu. Ft. capacity
CHR-09 CHR-10 E-01 E-02 E-03 E-04 E-05 E-06 E-08 E-09 E-10 E-10 E-11 E-12 E-13 E-14 E-12 E-13 E-14 E-15 E-16 E-18 E-20 E-21 E-22 E-23 H-03 H-04 H-05	12         12         12         12         1         2         1         1         1         1         1         1         2         2         1         1         2         2         1         1         2         1         1         1         1         1         1         1         1         1         1         2	PANO APRON HANGER DOCTOR'S CHAIR ASSISTANT STOOL UTILITY CENTER AIR LINE & VALVE Ultrasonic Cleaner Plaster Trap Air Compressor Vacuum Pump, Dry MED-GAS MANIFOLD SYSTEM NITROUS OXIDE FLOWMETER DENTAL LIGHT INTRAORAL X-RAY SYSTEM X-RAY REMOTE BUTTON Autoclave / Sterilizer Control Panel (3 Switch) N2O-O2 System Alarm STORAGE TANK PATIENT CHAIR AMALGAM SEPARATOR QUATTROCARE Intraoral Scanner MED-GAS SHUT-OFF ZONE VALVE N2O STORAGE TANK O2 STORAGE TANK O2 STORAGE TANK	BREWER BREWER DCI N.A. HENRY SCHEIN BUFFALO DENTAL AIR TECHNIQUES AIR TECHNIQUES PARKER PORTER PARKER PORTER DCI KAVO MIDMARK AIR TECHNIQUES PARKER PORTER AIR TECHNIQUES DCI SOLETEX AIR TECHNIQUES DCI SOLETEX AIR TECHNIQUES DCI SOLETEX AIR TECHNIQUES DCI SOLETEX AIR TECHNIQUES DCI SOLETEX KAVO	3125B 3145L SERIES 5 N.A. Maxissweep S3100 Trap-Eze 62100 Airstar 70 Mojave 2V5 3222 CX (Wall) MXR-1 SERIES 5 FOCUS M11 Ultraclave 53250 Sentinel MT10 SERIES 5 NXT Hg5 Element Sentinel 9000-1	OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         OWNER TO VERIFY MOUNTING LOCATIONS         REFER TO BLOCKING DETAILS         110 volt dedicated outlet         110 volt outlet above ceiling         See Plumbing         1/4" air line with 58 to 87 psi air pressure, 45 psi max.         8" min. clear floor space required         493 Cu. Ft. capacity         251 Cu. Ft. capacity

Item #	Count	
A-10	2	
A-18	3	
A-20	1	
H-02	12	
Itom #	Count	

EQUIPMENT SCHEDULE - HEARTLAND I.T.							
Description	Manufacturer	Model #	Comments				
LED Television 42"	NONE						
SPEAKER CONTROL BOX	NONE		Low Voltage contractor to provide and install controls; to provide empty junction box				
AED Defibrillator	HeartSine	350P					
19" LCD MONITOR	PHILLIPS		Mounted to wall arm mount				
EQUIPMENT SCHEDULE - MISCELLANEOUS							
Description	Manufacturer	Model #	Comments				
Blinds	NONE	ΝΔ					

![](_page_14_Figure_6.jpeg)

![](_page_15_Figure_0.jpeg)

3/16" = 1'-0"

![](_page_15_Figure_5.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

	GENERAL NOTES	REIN IS ES, AND THE ATES, LLC. /ING IS IS AND : MINIMUM
7015 "REPOSE GREY"	CONTRACTOR TO SUBMIT SAMPLES FOR ALL EXTERIOR FINISHES AND COLORS FOR     OWNER / ARCHITECT APPROVAL PRIOR TO COMMENCEMENT OF BLOCK	TAINED HEI ASSOCIAT WITHOUT UD ASSOCIA UD ASSOCIA LL RIGHTS LL RIGHTS CIFICATION APPLICABLE
7004 "SNOWBOLIND"	INSTALLATION.	ON CON HER AND NY WAY SHER AND UUEST. ATION, A TION, A TINE APE TH THE APE S TIME.
	2. SAMPLES MUST BE APPROVED BY ARCHITECT AND OWNER PRIOR TO FINISH INSTALLATIONS.	ORMATI OF FISH SED IN A VIT OF FISH PON REC PUBLIC/ EDGE, T IPLY WIT
7017, "DORIAN GRAY"	3. COORDINATE STRUCTURAL JOINTS WITH STUCCO JOINTS.	ALL INF OPERTY ED OR US CONSEN IRNED U USE OR LEIN COM
	<ol> <li>PAINT ELECTRICAL CONDUIT BOXES AND METERS TO MATCH ADJACENT BUILDING COLOR.</li> </ol>	NG AND SIVE PR RITTEN BE RETU SI OF MY WN HER ODES IN
KED STONE DARK RUNDLE	5. COPING CAP COLOR TO MATCH PLASTER WALL.	S DRAWI OT TO B IOT T
	1-031B	THIS IS N R NOT R R S NUT PLA
ANOPY PRE-FINISHED TO MATCH "DARK		36
FINISH ALUMINIUM, MATCH P2		43-44
SIDING 6" V GROOVE LIGHT	NOTE: NOT ALL NOTES STATED BELOW ARE NOTED ON THIS PLAN	
	4" CONC SLAB ON 10 MIL VAPOR BARRIER ON COMPACTED & TERMITE TREATED BASE, SEE STRUCT DWGS	<b>, L</b>
I - CLEAR ANODIZED	2 ALUM. EQUIPMENT STAND BY PRECISION ALUM FL#16921.1	E S S S S S S S S S S S S S S S S S S S
LUMINUM PLANK SIDING PANELS & ASSOCIATED TRIM	3 SIGNAGE J-BOX ABOVE, (TYP.) (SEE ELEVATION) (SEE ELECTRICAL)	AT SNE
ACT THE NATIONAL ACCOUNT REPRESENTATIVE FOR ATERIAL DIRECT.	4 THROUGH-WALL SCUPPER / CONDUCTOR HEAD / 6"x6" PRE-FINISHED ALUMINUM RAIN LEADER D.S. CONNECTED TO UNDERGROUND STORM	CI/ S ESIC
TONAL BRANDS SEGMENT LEADER (800) 604 - 0343 COSSICK@LONGBOARDPRODUCTS.COM.	SHEET A503.	SECT O
1-031B	6       ROOF ACCESS LADDER W/ SECURITY GATE, SEE DETAILS ON SHEET A502.	R RD 0012
	7     WALL MOUNTED LIGHT FIXTURE (TYP.) (SEE ELECTRICAL)	
	8 PROPOSED LOCATION FOR TENANT SIGNAGE DESIGNED, PERMITTED & INSTALLED BY OTHERS. REFER TO ELECT DWGS FOR POWER REQUIREMENTS.	
	9 WALL MOUNTED EMERGENCY EXIT LIGHT (TYP.) (SEE ELECTRICAL)	
	10 RECESSED CANOPY SOFFIT LIGHTS (SEE ELECTRICAL), COLOR TO MATCH CANOPY.	
	11     ROOF LINE BEYOND       12     RECESSED KNOX BOX LOCATION. CONFIRM MOUNTING HEIGHT & LOCATION	H
	WITH FIRE MARSHAL.	
	ALUMINUM SOFFIT COLOR: NATURA WOOD GRAIN	
	(14)       PRE-ENGINEERED STANDING SEAM AWNINGS, SEE WALL SECTIONS. UNDERSIDE         OF STANDING SEAM & AWNING FRAME PAINTED M1, SEE A201 COLOR LEGEND	
	15 ROOF CRICKET SLOPED 1/2" IN 12.	
	16 ROOF TOP UNIT ON CURB.	
_	1-028	
	SIGNAGE NOTES:	
	1. BUILDING WALL SIGNS: PERMITTED SEPARATELY BY OTHERS.	NSN NSN
	2. MONUMENT SIGNS: PERMITTED SEPARATELY BY OTHERS.	
		RELEASED FOR:
		RELEASED FOR: BID 12.11.23
B		RELEASED FOR: BID 12.11.23 PERMIT
B		RELEASED FOR: BID 12.11.23 PERMIT CONSTR.
B M2 P2	A	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS:
B M2 P2	A (A (A (A (A) (A) (A) (A) (A)	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: REVISIONS:
B M2 P2 (M2 (M2) (M	A (A (A (A (A) (A) (A) (A) (A)	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: REVISIONS:
B M2 P2 (M2 P2 (M2) (M2) (M2) (M2) (M2) (M2) (M2) (M2	A $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: REVISIONS:
	A (A) (A) (A) (A) (A) (A) (A) (A	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: REVISIONS:
	A A 301 A 301 T.O. FRAMING (HIGH) A A A A A A A A A A A A A	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1         REVISIONS:         1
B M2 P2 (M2 P2 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	Image: A state of the	Image: Construction of the second
	A A A A A C. FRAMING (HIGH) A A A A A A A A A A A A A	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1         REVISIONS:         1
	A	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1 </td
	A 4301 A301 T.O. FRAMING (HIGH)	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1         REVISIONS:         1
	A A T.O. FRAMING (HIGH)	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1 </td
	A A 301 T.O. FRAMING (HIGH)	RELEASED FOR:         BID       12.11.23         PERMIT
	A 4301 T.O. FRAMING (HIGH) T.O. FRAMING (HIGH) T.O. STOREFRONT (HIGH) T.O. STOREFRONT (HIGH) T.O. STOREFRONT (HIGH)	RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:         1 </td
	A	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: REVISIONS: REV-CMNT 12.08.23 HOLLIAM JOE FISHER
	Image: Constraint of the second se	RELEASED FOR: BID 12.11.23 PERMIT CONSTR. REVISIONS: A REV-CMNT 12.08.23 A REV-CMNT 12.

Project Date: 1/31/23 Project No.: 223001

![](_page_17_Figure_0.jpeg)

\_\_\_\_\_

![](_page_17_Figure_3.jpeg)

![](_page_18_Figure_0.jpeg)

3/8" = 1'-0"

0 2'

\A212/

![](_page_18_Figure_1.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Figure_3.jpeg)

![](_page_18_Figure_4.jpeg)

![](_page_18_Figure_5.jpeg)

![](_page_18_Figure_6.jpeg)

![](_page_18_Figure_7.jpeg)

![](_page_18_Figure_8.jpeg)

12 INTERIOR ELEVATION @ EQUIP 122

7

A212

A212 0 2'

3/8" = 1'-0"

A212

![](_page_18_Figure_9.jpeg)

![](_page_18_Figure_10.jpeg)

3/8" = 1'-0"

![](_page_18_Figure_11.jpeg)

![](_page_18_Figure_12.jpeg)

![](_page_18_Figure_13.jpeg)

![](_page_18_Figure_14.jpeg)

3/8" = 1'-0"

![](_page_18_Figure_15.jpeg)

![](_page_18_Figure_16.jpeg)

![](_page_19_Figure_0.jpeg)

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FISHER AND ASSOCIATES, LLC ARCHITECTS PLANNERS INTERIOR DESIGNERS 2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-6436
INTERIOR ELEVATIONS HEARTLAND DENTAL WINTER GARDEN AVALON & MARSH RD WINTER GARDEN, FL 34787
RELEASED FOR:         BID       12.11.23         PERMIT         CONSTR.         REVISIONS:
WILLIAM JOE FISHER ARCHITECT 0010829 <b>A213</b> Project Date: 1/31/23 Project No.: 223001

![](_page_20_Figure_0.jpeg)

![](_page_20_Picture_2.jpeg)

1/2" = 1'-0"

![](_page_20_Figure_6.jpeg)

![](_page_20_Figure_7.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_2.jpeg)

![](_page_21_Figure_3.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Figure_2.jpeg)

![](_page_22_Figure_6.jpeg)

![](_page_22_Figure_7.jpeg)

![](_page_23_Figure_0.jpeg)

ELEVATION @ 12 O'CLOCK WALL FRAMING 4 \ 3/4" = 1'-0" **A401** 

![](_page_23_Picture_2.jpeg)

![](_page_23_Figure_3.jpeg)

3/4" = 1'-0"

![](_page_23_Figure_4.jpeg)

![](_page_23_Figure_5.jpeg)

![](_page_23_Figure_6.jpeg)

2 PLAN DETAIL @ 12 O'CLOCK CASEWORK 1 1/2" = 1'-0"

![](_page_23_Picture_9.jpeg)

![](_page_23_Figure_10.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_24_Picture_1.jpeg)

![](_page_24_Figure_3.jpeg)

![](_page_24_Figure_4.jpeg)

![](_page_24_Figure_5.jpeg)

![](_page_24_Picture_6.jpeg)

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<b>TISTIER</b> AND ASSOCIATES. LLC	ARCHITECTS			2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-4436
LREATMENT SUITE DETAILS	ASED HEARTLAND DENTAL SIONS	MINTER GARDEN		©     WINTER GARDEN, FL 34787
WILL			FISHI	ER 29
WILL ARC Projec	LIAM J CHITEC	OE I CT 0 <b>102</b> :: 1/3	FISHI 0108 2 31/23	ER 29

![](_page_25_Figure_1.jpeg)

![](_page_25_Picture_2.jpeg)

![](_page_25_Figure_3.jpeg)

## **RESTROOM FINISH NOTES**

- 1. REFER TO FINISH PLAN & SCHEDULES FOR FINISH DESIGNATIONS 2. ALL CLEAR DIMENSIONS SHOWN ARE FROM FINISHED FACE OF TILE TO FINISHED
- FACE OF TILE. 3. WHEN DOOR SWINGS INTO TURNING CIRCLE, ADDITIONAL 30"X48" CLEAR FLOOR SPACE PROVIDED BEYOND ARC OF DOOR SWING PER 603.2.3 (EXCEPTION #2) AND
- 305.3 OF THE 2010 ADA STANDARDS 4. ALL INSTALLATIONS AND FIXTURES ARE TO BE IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL ACCESSIBILITY REGULATIONS.
- 5. PROVIDE BLOCKING IN WALLS AS REQUIRED TO ANCHOR FIXTURES. SEE BLOCKING DETAIL SHEETS. 6. INSULATE EXPOSED HOT WATER AND DRAIN PIPES.
- 7. MAINTAIN INTEGRITY OF ALL FIRE RATED WALLS DENOTED ON PLANS.
- 8. REFER TO EQUIPMENT SCHEDULE & PLUMBING DRAWINGS FOR MORE INFORMATION.

	RESTROOM EQUIPMENT SCHEDULE						
ITEM	DESCRIPTION	REMARKS					
A-07	COAT HOOK	OWNER TO VERIFY MOUNTING LOCATIONS					
A-17	HAND DRYER	G.C. TO PROVIDE BLOCKING & POWER REQUIRED FOR INSTALLATION					
A-22	42" HORIZONTAL GRAB BAR						
A-23	36" HORIZONTAL GRAB BAR						
A-24	18" VERTICAL GRAB BAR						
A-25	RECESSED TISSUE PAPER DISPENSER						
A-26	MIRROR (24" x 42")						
A-27	MIRROR ( 18" x 30")						
P-1	WATER CLOSET - TANK TYPE	REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS					
P-3A	PUBLIC RR INTEGRATED LAVATORY	REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS					
P-3B	WALL MOUNTED LAVATORY	REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS					

DEPTH OF

(P-3A)

- \*

![](_page_25_Figure_12.jpeg)

![](_page_25_Figure_13.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_1.jpeg)

## **RESTROOM FINISH NOTES**

- 1. REFER TO FINISH PLAN & SCHEDULES FOR FINISH DESIGNATIONS 2. ALL CLEAR DIMENSIONS SHOWN ARE FROM FINISHED FACE OF TILE TO FINISHED
- FACE OF TILE. 3. WHEN DOOR SWINGS INTO TURNING CIRCLE, ADDITIONAL 30"X48" CLEAR FLOOR SPACE PROVIDED BEYOND ARC OF DOOR SWING PER 603.2.3 (EXCEPTION #2) AND
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- 5. PROVIDE BLOCKING IN WALLS AS REQUIRED TO ANCHOR FIXTURES. SEE BLOCKING DETAIL SHEETS.
- 6. INSULATE EXPOSED HOT WATER AND DRAIN PIPES. 7. MAINTAIN INTEGRITY OF ALL FIRE RATED WALLS DENOTED ON PLANS.
- 8. REFER TO EQUIPMENT SCHEDULE & PLUMBING DRAWINGS FOR MORE INFORMATION.

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P-3A	PUBLIC RR INTEGRATED LAVATORY	REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS			
P-3B	WALL MOUNTED LAVATORY	REFER TO PLUMBING SCHEDULE FOR			

![](_page_26_Figure_12.jpeg)

![](_page_26_Figure_13.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_28_Figure_3.jpeg)

![](_page_28_Figure_18.jpeg)

STEP 6 - INSTALLING A PATCH AT UPPER CORNERS CUT MIN. 6" LONG BY 3" WIDE DOG BONE SHAPED PATCHES OF FLASHING (MIN. 1" WIDE AT CENTER) AND INSTALL OVER BOTH TOP CORNERS OF THE JAMB FLASHING. PRESS THE PATCH INTO THE CORNER TO CREATE A TIGHT SEAL AND PREVENT THE PATCH FROM BRIDGING AT ALL 90 DEGREE SUBSTRATE ANGLE CHANGES.

![](_page_28_Figure_20.jpeg)

![](_page_28_Figure_21.jpeg)

# **STEP 8 - TERMINATE TOP OF HEAD FLASHING**

USE BITUTHENE LIQUID MEMBRANE OVERLAPPING MIN. 1/2" ONTO WALL AND FLASHING. BITUTHENE MASTIC MAY BE USED WITH WALL MEMBRANE.

![](_page_28_Figure_24.jpeg)

ER STUCCO			
DRIATE SEALANT			
THANE) AND			
RESSIBLE SEALANT OR			
IRREGULARITIES			
STENERS			
BAR FASTENED			
RIATE FASTENERS			
ND FLASHING			
ALUMINUM HING			
ASHING			
PE TO DRAIN)			
ASHING & 'Z'			
D PANEL			
RAME			
EC'D BY AWNING			
TENERS / THE FRAME			
	<u>I</u>		

![](_page_28_Figure_26.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

L

![](_page_31_Figure_0.jpeg)

![](_page_32_Figure_0.jpeg)

	INFILL PANELS NOT SHOWN FOR CLARITY
	CEILING GRID SUSPENSION
	WOOD SLAT (WS-1) ASSEMBLY
	WOOD SLAT (WS-1) BACKER
	BACKER CLIP. INSTALL CLIPS AT BACKERS TO ATTACH WOOD SLAT ASSEMBLY TO CEILING GRID PER MANUFACTURER'S INSTRUCTIONS
	10 DETAIL @ CEILING 6" = 1'-0"
	NO MULLION APPLICATION: PARTITION ENDS AT GLASS
	FLUSH APPLICATION: PARTITION CLOSE TO EDGE OF MULLION
	STANDARD APPLICATION: PARTITION CENTERED ON MULLION
	8 DETAILS @ M
ABOVE FIN. FLOOR ATTACHED TO WALL; POSITION TO AVOID CONFLICT WITH EQUIPMENT. PROVIDE 3M FIRE BARRIER DUCT	
WRAP 615 (+) PER UL V-27 CONTINUOUS FROM GYP. CEILING LID TO UNDERSIDE OF ROOF DECK	CONTINUOUS METAL
B/O CEILING 9'-0" A.F.F. MIN 7" 16 CA CHANNEL MIN 7" 16 CA CHANNEL	B/O CEILING
MIN. /* 16 GA. CHANNEL SHAPED GALV. STEEL JOISTS @ 24" O.C. MIN. W/ (2) LAYERS 1/2" TYPE-X GYP. BD. ONE SIDE AND (1) LAYER 3/4" T&G SIDE AND (1) LAYER 3/4"	
PLYWOOD OTHER SIDE. 1- HOUR FIRE RATING PER U.L. L524 (SEE UL DETAILS SHEET)	5/8" GYPSUM BOARD, REFER
FIRE-RATED PARTITION	TO FINISH PLAN
AS SCHEDULED FABRICATED IN THE FIELD AND THEN MOVED INTO PLACE. THE CONTRACTOR IS DESIDENTIAL	
AS SCHEDULED FABRICATED IN THE FIELD AND FINISHED FLOOR 0'-0" A.F.F. NOTE: DO NOT PROVIDE A LIGHT FIXTURE IN THE MED GAS CLOSET FIXTURE IN THE MED GAS CLOSET FIXTURE IN THE MED GAS CLOSET FIXTURE IN THE MED GAS CLOSET	

![](_page_33_Figure_1.jpeg)

![](_page_34_Figure_0.jpeg)

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<b>FISHER</b> AND ASSOCIATES, LLC			2315 BELLEAIR RD. CLEARWATER, FL. 33764 (727) 443-4436
INTERIOR DETAILS	HEARTLAND DENTAL	WINTER GARDEN	AVALON & MARSH RD WINTER GARDEN, FL 34787
RELE BID PERM CON	ASEE MIT STR.	) FOF	R: 2.11.23
REVI	SION	S:	
WILI ARC	LIAM CHITE	JOE CT 0	FISHER 010829 2
Proje	ct Dat	e: 1/	31/23

_	
_	
	LUXURY VINYL TILE AS SCHEDULED, REFER TO FINISH PLAN
	CONCRETE SLAB
	6 DETAIL @ LUXURY VII
_	6" = 1'-0"
	3 DETAIL @ WALL TILE
	6" = 1'-0"

![](_page_35_Figure_1.jpeg)

![](_page_36_Figure_0.jpeg)

![](_page_36_Figure_2.jpeg)

![](_page_36_Figure_3.jpeg)

![](_page_36_Figure_4.jpeg)

![](_page_36_Figure_5.jpeg)

![](_page_36_Figure_6.jpeg)

![](_page_37_Figure_0.jpeg)

.

![](_page_38_Figure_0.jpeg)

	DOOR		ROOM		
	NO.	ROOM NAME	NO.	WIDTH	HEIGH
EDITION, THUMB TURN LOCKS TO COMPLY WITH EXCEPTION #2, INDICATING LOCKS ARE REQUIRED ON	100.1	WAITING	100	3' - 0"	7' - 0 3/
ALL ENTRANCE DOOR INTERIORS.	100.2	WAITING	100	3' - 0"	7' - 0"
2. THE PROJECT COMPLIES WITH THE ADA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.	101.1	HALLWAY	101A	3' - 0"	7' - 0"
3. (XXX) DENOTES BUILDING ADDRESS. VERIFY ADDRESS AND INSTALL VINYL NUMBERS IN SIZE AND	103.1	I.T. CLOSET	103	3' - 0"	7' - 0"
COLORS SPECIFIED BY LOCAL BUILDING DEPARTMENT.	104.1	OFFICE	104	3' - 0"	7' - 0"
4. VERIFY ALL DIMENSIONS IN FIELD. DO NOT SCALE DRAWINGS 5. ALL REAR EXITS TO HAVE A CONTROL IOINT IN SLAB @ THRESHOLD	106.1	MEN'S RR	106	3' - 0"	7' - 0"
6. ALL DOORS & OTHER OPENINGS, SIZE, QUANTITY, LOCATION & SPECIFICATION TO BE COORDINATED	107.1	WOMEN'S RR	107	3' - 0"	7' - 0"
WITH OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO CONSTRUCTION.	108.1	SUPPLY CLOSET	108	3' - 0"	7' - 0"
7. ALL ALUMINUM GLAZING SYSTEM FRAMES TO BE CLEAR ANODIZED ALUMINUM.	120.1	TREATMENT SUITE 1	120	2' - 8"	7' - 0"
8. ALL ALUMINUM GLAZING SYSTEM FRAMES TO BE NON-IMPACT, INSULATED.	120.2	TREATMENT SUITE 1	120	3' - 0"	7' - 0"
9. ALL EXTERIOR GLASS SHALL BE SOLARSCREEN 1/4" CLEAR TEMPERED WITH LOW-E COATING ON #2 SIDE 1/2" SDACER 1/4" CLEAR 1000 DVB INTERLAYER 1/4" CLEAR MINIMUM DESIGN VALUES SHALL BE	121.1	TREATMENT SUITE 2	121	2' - 8"	7' - 0"
SIDE, 1/2 STACEN, 1/4 CEERN, 000 TVD INTEREATEN, 1/4 CEERN, MINIMUM DESIGN VALUES STALE DE.	121.2	TREATMENT SUITE 2	121	3' - 0"	7' - 0"
	122.1	EQUIPMENT	122	3' - 0"	7' - 0"
	123.1	LAUNDRY	123	3' - 0"	7' - 0"
	124.1	STAFF RESTROOM	124	3' - 0"	7' - 0"
	125.1	BREAKROOM	125	3' - 0"	7' - 0"
	125.2	BREAKROOM	125	3' - 0"	7' - 0"
	126.1	MED GAS	126	2' - 8"	7' - 0"

![](_page_38_Figure_4.jpeg)

![](_page_38_Figure_6.jpeg)

![](_page_38_Figure_7.jpeg)

![](_page_38_Figure_8.jpeg)

![](_page_38_Figure_13.jpeg)

![](_page_38_Figure_14.jpeg)

![](_page_38_Figure_15.jpeg)

#### SECTION 011000 - SUMMARY 1.1 PROJECT INFORMATION

A. Project Identification: A New Shell building and Tenant Fit out, for Heartland Dental, Inc.

1. Project Location: 8136 E. Southport Rd., Indianapolis, IN 46259

B. Tenant: Heartland Dental, 1200 Network Centre Drive; Effingham, IL 62401 C. Architect: GPD Group 520 South Main St., Akron, OH 44311

D. The Work consists of: A tenant finish of approximately 4,196 G.S.F. for a new dental office within a new shell building.

## E. Work Under Separate Contracts:

1. Dental Equipment: To be supplied and installed by Dental Supplier; Patterson Dental, Inc. General Contractor to coordinate with supplier and Owner. F. Owner-Furnished Products: The following products will be furnished by Owner and shall be installed by Contractor as part of the Work:

1. Owner Provided Light Fixtures, where Occurs.

#### 1.2 WORK RESTRICTIONS A. Contractor's Use of Premises: During construction, Contractor will have full use of site, building area, or space indicated. Contractor's use of premises is limited only by Owner's right to perform or employ other contractors on portion of Project.

B. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.

#### SECTION 012500 - SUBSTITUTION PROCEDURES 1.1 SUBSTITUTION PROCEDURES

A. Substitutions include changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by the Contractor. B. Substitution Requests limited: Submit each request for consideration via electronic pdf submission. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers titles.

1. Identify product to be replaced and show compliance with requirements for substitution. Include a detailed comparison of significant qualities of proposed substitutions with those of the Work specified, a list of changes needed to other parts of the Work required to accommodate proposed substitutions, and any proposed changes in the Contract Sum or the Contract Time should the substitution be accepted.

C. Architect will review proposed substitutions and notify Contractor of their acceptance or rejection. If necessary, Architect will request additional information or documentation for evaluation 1. Architect will notify Contractor of acceptance or rejection of proposed substitution within five (5) business days of receipt of request, or five (5) business days of receipt of

additional information or documentation, whichever is later. D. Do not submit unapproved substitutions on Shop Drawings or other submittals.

#### SECTION 012600 - CONTRACT MODIFICATION PROCEDURES 1.1 CONTRACT MODIFICATION PROCEDURES

A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustments to the Contract Sum or the Contract Time, on AIA Document G710, " Architect's Supplemental Instructions."

B. Owner-Initiated Proposal Request: Architect will issue a detailed description of proposed changes in the Work. 1. Proposal Request are not instruction either to stop work in progress or to execute the proposed change.

2. Within time specified in Proposal Request or five (5) business days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost

adjustments to the Contract Sum or the Contract Time. C. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect. D. On Owner's approval of a Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701, for all changes to the Contract Sum or the Contract Time.

E. Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change on the Contract Sum or the Contract Time.

F. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

#### SECTION 013000 - ADMINISTRATIVE REQUIREMENTS **1.1 PROJECT MANAGEMENT AND COORDINATION**

A. Subcontract List: Submit a written summary identifying individuals of firms proposed for each portion of the Work.

B. Key Personnel Names: Within fifteen (15) business days of starting Construction Operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. List email addresses and telephone numbers.

C. Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installations for each part of the Work. D. Requests for Information (RFIs): On discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit and RFI. Use

forms acceptable to Architect and Owner E. Provide a weekly or biweekly report by electronic communication (e-mail) to the Owner's Representative and Architect on progress against project schedule. General Contractor is to schedule a rough-in review notifying Owner and Architect of said review 2 weeks prior to schedule meeting date. Require attendance of each subcontractor or other entity concerned with current progress or involved in planning, coordination, or performance of future activities.

#### 1.2 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will be provided by Architect for Contractor's use in preparing submittals.

- 1. Architect will furnish Contractor one set of digital data drawing files (plans only) of the Contract Drawings for use in preparing Shop Drawings. a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
- B. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
- 1. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing including resubmittals. 2. Submit three copies of each action submittal. Architect will return two copies.
- 3. Submit two copies of each informational submittal. Architect will not return copies.
- 4. Architect will discard submittals received from sources other than Contractor. C. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
- 1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.

#### 2. Name file with unique identifier, including project identifier, Specification Section number, and revision identifier. 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.

D. If Paper Submittals are used: Place a permanent label or title block on each submittal for identification. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect. Include the following information on the label:

- 1. Proiect name.
- 3. Name and address of Contractor.

4. Name and address of subcontractor or supplier. 5. Number and title of appropriate Specification Section.

- E. Identify options requiring selection by Architect
- F. Identify deviations from the Contract Documents on submittals.
- G. Contractor's Construction Schedule Submittal Procedure:
- 1. Submit required submittals in the following format:

#### a. PDF electronic file. 1.3 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections.

1. Submit electronic submittals via email as PDF electronic files. a. Architect will return annotated file. Annotate and retain one (1) copy of file as an electronic Project record document file.

#### 1.4 ACTION SUBMITTALS

- A. If Paper Copies are used: Submit four (4) paper copies of each submittal unless other indicated. Architect will return two (2) copies.
- B. Product Data: Mark each copy to show applicable products and options. Include the following:
- 1. Manufacturer's written recommendations, product specifications, and installation instructions.
- 2. Wiring diagrams showing factory-installed wiring.
- 3. Printed performance curves and operational range diagrams. 4. Testing by recognized testing agency.
- 5. Compliance with specified standards and requirements.

C. Shop Drawings: Prepare Project-specific information, drawing accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data. Submit on sheets at least 8-1/2 by 11 inches but no larger than 24 by 36 inches. Include the following:

- 1. Dimensions and identification of products
- 2. Fabrication and installation drawings and roughing-in and setting diagrams.
- 3. Wiring diagrams showing field-installed wiring. 4. Notation of coordination requirements
- 5. Notation of dimensions establishes by field measurement.

D. Samples: Submit Samples for review of kind, color, pattern, and texture and for a comparison of these characteristics between submittal and actual component as delivered and installed. Include name of manufacturer and product name on label.

#### SECTION 014200 - REFERENCES **1.1 GENERAL REQUIREMENTS**

A. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

B. Abbreviations and Acronyms: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names are subject to change and are believed to be accurate and current as of the date of the Contract Documents.

Architectural Woodwork Institute AWI AWPA American Wood Protection Association (Formerly: American Wood Preservers' Association) AWS American Welding Society BHMA Builders Hardware Manufacturers Association CIMA Cellulose Insulation Manufacturers Association CISCA Ceilings & Interior Systems Construction Association CRI Carpet and Rug Institute (The) CSI Cast Stone Institute CSI Construction Specification Institute (The) DHI Door and Hardware Institute EIMA EIFS Industry Members Association EJMA Expansion Joint Manufacturers Association, Inc. FM Approvals FM Approvals LLC GA Gypsum Association GANA Glass Association of North America HMMA Hollow Metal Manufacturers Association HPVA Hardwood Plywood & Veneer Association ICBO International Conference of Building Officials International Solid Surface Fabricators Association ISSFA KCMA Kitchen Cabinet Manufacturers Association LGSEA Light Gauge Steel Engineers Association MCA Metal Construction Association Maple Flooring Manufacturers Association, Inc. MFMA MFMA Metal Framing Manufacturers Association, Inc. MHIA Material Handling Industry of America MIA Marble Institute of America MPI Master Painters Institute

#### NAIMA North American Insulation Manufacturers Association NBGQA National Building Granite Quarries Association, Inc.

#### NCMA National Concrete Masonry Association National Electrical Contractors Association NECA

Northeastern Lumber Manufacturers' Association Nel MA

National Electrical Manufacturers Association NEMA NGA National Glass Association

- NOMMA National Ornamental & Miscellaneous Metals Association
- NSSGA National Stone, Sand & Gravel Association
- NTMA National Terrazzo & Mosaic Association, Inc. (The) RFCI Resilient Floor Covering Institute

#### SDI Steel Door Institute

SJI Steel Joist Institute SMACNA Sheet Metal and Air Conditioning Contractors' National Association

Spray Polyurethane Foam Alliance (SPI/SPFD - The Society of the Plastics Industry, Inc.; Spray Polyurethane Foam Division) SPFA

TCNA Tile Council of North America, Inc.

TIA/EIA Telecommunications Industry Association/Electronic Industries Alliance TMS The Masonry Society

UL Underwriters Laboratories Inc.

#### USGBC U.S. Green Building Council WCMA Window Covering Manufacturers Association

WDMA Window & Door Manufacturers Association (Formerly : NWWDA - National Wood Window and Door Association) WI Woodwork Institute (Formerly : WIC - Woodwork Institute of California)

Woodwork Institute of California (Now WI) WIC WMMPA Wood Moulding & Millwork Producers Association

C. Code Agencies: Where abbreviations and acronyms are used in Specification or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names are subject to change and are believed to be accurate and current as of the date of the Contract Documents.

International Association of Plumbing and Mechanical Officials

ICC	International Code Council
ICC-ES	ICC Evaluation Service, Inc.
NFPA	National Fire Protection Association

#### SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

- 1.1 SECTION REQUIREMENTS A. Use Charges: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. B. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- C. Accessible Temporary Egress: Comply with applicable provisions in ICC A117.1.
- **1.2 TEMPORARY FACILITIES** A. Provide field offices, storage and fabrication sheds, and other support facilities as necessary for construction operations. Store combustible materials apart from building.

#### 1.3 FOUIPMENT

A. Fire Extinguisher: Portable, UL-rated; with class and extinguishing agent as required by locations and classes of fire exposures. B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space

thermostatic control 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.

2. Heating Units: Listed and labeled for type of fuel being consumed, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. 3. Permanent HVAC Units: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction.

#### 1.4 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.

1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services. B. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking-water fixtures. Comply with regulations and health codes for type, number, location, operation, and

#### maintenance of fixtures and facilities

C. Heating and Cooling: Provide temporary heating and cooling required for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. D. Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.

1.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

B. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials

C. Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.

D. When required, provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner and other tenants from fumes and noise. 1.6 OPERATIONS, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Remove each temporary facility when need for its service has ended, when it has been placed by authorized use of a permanent facility, or no later than Substantial Completion. C. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period.

## SECTION 016000 - PRODUCT REQUIREMENTS

1.1 SECTION REQUIREMENTS

A. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent. B. Comparable Product Request: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. 1. Show compliance with requirements for comparable product requests.

. Architects will review the proposed product and notify Contractor of its acceptance or rejection

C. Compatibility of Options: If Contractor is given option of selecting between two or more products, select product compatible with products previously selected. D. Deliver, store, and handle products using means and methods that will prevent damage, deterioration and loss, including theft. Comply with manufacturer's written instructions.

1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces. 2. Deliver products to Project site in manufacturer's original sealed container or packaging, complete with labels and instructions for handling, storing, unpacking, protecting, and

installing. 3. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected. 4. Store materials in a manner that will not endanger Project structure.

5. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation. E. Warranties specified in other Sections shall be in addition to, and run concurrent with, pother warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1.2 PRODUCT SELECTION PROCEDURES

A. Provide products that comply with the Contract Documents, are undamaged, and, unless otherwise indicated, are new at the time of installation. 1. Provide products complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.

2. Where products are accompanied by the term "as selected," Architect will make selection.

- 3. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristic of products.
- B. Where the following headings are used to list products or manufacturers, the Contractor's options for product selection are as follows:

Products:

a. Where requirements include "one of the following," provide one of the products listed that complies with requirements. b. Where requirements do not include "one of the following," provide one of the products listed that complies with requirements or a comparable product. 2. Manufacturers:

a. Where requirements "one of the following," provide a product that complies with requirements by one of the listed manufacturers. b. Where requirements do not include "one of the following," provide a product that compiles with requirements by one of the listed manufacturers or another

#### manufacturer

C. Where Specifications require "match Architect's sample," provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on

whether a proposed product matches. D. Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will

select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items. 1.3 COMPARABLE PRODUCTS

A. Architect will consider Contractor's request for comparable product when the following conditions are satisfied:

1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.

2. Detailed comparison of significant qualities of proposed product with those named in the Specifications

3. List of similar installations for completed projects, if requested.

4. Samples, if requested.

SECTION 017000 - EXECUTION AND CLOSEOUT REQUIREMENTS

#### **1 EXECUTION REQUIREMENTS** A. Cutting and Patching:

1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching.

2. Operational Elements: Do not cut and patch operation elements and related components in a manner that resulted in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

3. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner

that would, in Architect's opinion, reduce the building's aesthetic qualities. B. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

1.2 CLOSEOUT SUBMITTALS

A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

B. Certified List of Incomplete Items: Final Submittal at Final Completion.

C. Operation and Maintenance Data: Submit one (1) copy of manual D. PDF Electronic File: Assemble manual into a composite electronically indexed file. Submit on digital media.

E. Record Drawings: Submit one (1) set of annotated record prints.

F. Record Digital Data Files: Submit data file and one (1) set of plots.

1.3 SUBSTANTIAL COMPLETION PROCEDURES

A. Prepare a list of items to be completed and corrected ("punch list"), the value of items on the list, and reasons why the Work is not complete. B. Submittals Prior to Substantial Completion: Before requesting Substantial Completion inspection, complete the following:

1. Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits. operating certificates, and similar releases.

2. Submit closeout submittals specified in other sections, including project record documents, operations and maintenance manuals, property surveys, similar final record information, warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents. 3. Submit maintenance material submittals specified in other sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by

Architect. 4. Submit test/adjust/balance records.

5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance

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- E. Record Drawings: Submit one (1) set of annotated record prints. F. Record Digital Data Files: Submit data file and one (1) set of plots.
- 1.3 SUBSTANTIAL COMPLETION PROCEDURES

operating certificates, and similar releases

Architect. 4. Submit test/adjust/balance records.

- 2. Make final changeover of permanent locks and deliver keys to Owner.
- 4. Perform preventive maintenance on equipment used prior to Substantial Completion.
- 7. Remove temporary facilities and controls.

be issued

1.5 MATERIALS

desired information

4. Emergency instructions.

6. Wiring diagram.

1.7 RECORD DRAWINGS

1.9 INSTALLATION

hairline joints.

## SECTION 017000 - EXECUTION AND CLOSEOUT REQUIREMENTS

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2. Submit closeout submittals specified in other sections, including project record documents, operations and maintenance manuals, property surveys, similar final record information, warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents. 3. Submit maintenance material submittals specified in other sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by

5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance. C. Procedures Prior to Substantial Completion: Before requesting Substantial Completion inspection, complete the following:

1. Advise Owner of pending insurance changeover requirements

3. Complete startup and testing of systems and equipment.

5. Advise Owner of changeover in heat and other utilities.

6. Participate with Owner in conducting inspection and walk-through with local emergency responders.

8. Complete final cleaning requirements, including touchup painting.

9. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects. D. Inspection: Submit a written request for inspection for substantial completion. On receipt of request, Architect will proceed with inspection or advise Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will advise Contractor of items that must be completed or corrected before certificate will

#### 1.4 FINAL COMPLETION PROCEDURES

A. Submittals Prior to Final Completion: Before requesting inspection for determining final completion, complete the following:

1. Submit a final Application for Payment. 2. Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved.

3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements. 4. Submit pest-control final inspection report.

B. Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare final Certificate for Payment after inspection or will advise Contractor of items that must be completed or corrected before certificate will be issued. 1. Reinspection: Request reinspection when the Work identified in previous inspection as incomplete is completed or corrected.

A. In-place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent

B. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

1.6 OPERATION AND MAINTENANCE DOCUMENTATION

A. Directory: Prepare a single, comprehensive directory of emergency, operation, and maintenance data and materials, listing items and their location to facilitate ready access to

B. Organization: Unless otherwise indicated, organize manual into separate sections for each system and subsystems, and separate sections for each piece of equipment not part of a

C. Organize data into three-ring binders with identification on front and spine of each binder, and envelopes for folded drawings. Include the following:

1. Manufacturer's operation and maintenance documentation 2. Maintenance and service schedule

3. Maintenance service contracts. Include name and telephone number of service agents

5. Spare parts list and local sources of maintenance materials.

7. Copies of warranties. Include procedures to follow and required notifications for warranty claims.

A. Record Prints: Maintain a set of prints of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued. Mark to show actual installation varies from that shown originally. Accurately record information in an acceptable drawing technique.

1. Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location. 1.8 EXAMINATION AND PREPARATION

A. Existing Condition: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work. B. Before proceeding with each component of the Work, examine substrates, area, and conditions, with Installer or Applicator present where indicated, for compliance with

requirements for installation tolerances and other conditions affecting performance. 1. Verify compatibility with and suitability of substrates

2. Examine roughing-in for mechanical and electrical systems. 3. Examine walls, floors, and roofs for suitable conditions.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Take field measurements as required to fit the Work properly. Where portions of the Work are indicated to fit to other construction, verify dimensions of construction by field measurements before fabrication.

E. Verify space requirements and dimensions of items shown diagrammatically on Drawings.

A. Locate the Work and component of the Work accurately, in correct alignment and elevation, as indicated. 1. Make vertical work plumb and make horizontal work level.

2. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.

3. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces.

B. Comply with manufacturer's written instructions and recommendations.

C. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy. D. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed.

E. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place. Where size and type of attachments are not indicated, verify size and type required for load conditions.

1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect. F. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form

G. Use products, cleaners, and installation materials that are not considered hazardous.

1.10 CUTTING AND PATCHING A. Provide temporary support of work to be cut.

B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

C. Where existing services/systems are required to be removed, relocated, or abandoned, by such services/systems before cutting to minimize or prevent interruption to occupied

D. Cutting: Cut in-place construction using methods least likely to damage elements retained or adjoining construction. 1. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use. E. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections. 1. Restore exposed finishes of patched areas and extend finish restoration into adjoining construction in a manner t

> HEARTLAND DENTAL PROVIDED SPECIFICATIONS ON THESE SHEETS ARE FOR REFERENCE ONLY. SPECIFICATIONS PROVIDED ARE NOT MEANT TO REPRESENT AN EXHAUSTIVE OR ALL ENCOMPASSING LIST OF THE PROJECT REQUIREMENTS. ALL SPECIFICATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.

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C. Bolted Connections: Bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts." Non slip-critical connections require only visual inspection. Slip critical connections require inspection to conform to AISC specifications for the method of tightening selected. Contractor shall discuss with the Engineer prior to erection.

D. Welded Connections: All field welds will be visually inspected according to AWS D1.1/D1.1M.

1. In addition to visual inspection, full penetration field welds will be tested and inspected according to AWS D1.1/D1.1M by ultrasonic inspection procedures, per ASTM E164 E. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

3.6 REPAIRS AND PROTECTION A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.

B. Touchup Painting: Immediately after erection, clean exposed areas where primer is damaged or missing and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

1. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning. C. Touchup Painting: Cleaning and touchup painting are specified in Division 09 painting Sections.

SECTION 061000 - ROUGH CARPENTRY

1.0 GENERAL 1.1 SUBMITTALS

A. Product Data: Submit manufacturer's specifications and installation instructions for materials listed below:

1. Insulating sheathing. B. Wood Treatment Data: Submit chemical treatment manufacturer's instructions for handling, storing, installation and finishing of treated material.

C. Preservative Treatment: For each type specified, include certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative

retained and conformance with applicable standards D. For water-borne treatment, include statement that moisture content of treated materials was reduced to levels indicated prior to shipment to project site which will be 15 percent

m.c. on plywood or 19 percent on lumber 2" thick or less. E. Fire Retardant Treatment: Include certification by treating plant that treatment material complies with specified standard. Materials shall be fire retardant if required by local

1.2 PROJECT CONDITIONS

A. Coordination: Fit carpentry work to other work; scribe and cope as required for accurate fit. Correlate location of furring, nailers, blocking, grounds and similar supports to allow proper attachment of other work.

2.0 PRODUCTS 2.1 LUMBER, GENERAL

A. Lumber Standards: Manufacture lumber to comply with PS 20 "American Softwood Lumber Standard" and with applicable grading rules of inspection agencies certified by

American Lumber Standards Committee's (ALSC) Board of Review. B. Inspection Agencies: Inspection agencies and the abbreviations used to reference with lumber grades and species include the following:

- NLGA National Lumber Grades Authority Southern Pine Inspection Bureau SPIB
- WCLIB West Coast Lumber Inspection Bureau
- WWPA Western Wood Products Association

C. Grade Stamps: Factory-mark each piece of lumber with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, grade, species, moisture content at time of surfacing, and mill. D. For exposed lumber apply grade stamps to ends or back of each piece, or omit grade stamps entirely and issue certificate of grade compliance from inspection agency in lieu of

grade stamp.

. Nominal sizes are indicated, except as shown by detail dimensions. Provide actual sizes as required by PS 20, for moisture content specified for each use.

F. Provide dressed lumber. S4S. unless otherwise indicated.

G. Provide seasoned lumber with 19% maximum moisture content at time of dressing and shipment for sizes 2" or less in nominal thickness, unless otherwise indicated.

2.2 DIMENSION LUMBER

A. For non-load bearing, interior framing (nominal 2" to 4" thick, 2" to 6" wide) provide the following grade, any species. B. Standard grade. Any species graded under WWPA or WCLIB rules. Southern Pine graded under SPIB rules. Spruce-Pine-Fir graded under NLGA rules.

- C. For load bearing and exterior light framing (nominal 2" to 4" thick, 4" to 6" wide), provide the grade and species as indicated on sheet S001.
- 2.3 BOARDS A. Exposed Boards: Where boards will be exposed in the finished work, provide the following:
- B. Moisture Content: 19 percent maximum, "S-DRY".
- . Where transparent or natural finish or no finish is indicated, provide Clear Douglas Fir, Select per WCLIB or WWPA rules.
- ). Where painted finish is indicated, provide Southern Pine, No. 2 Boards per SPIB, or Douglas Fir Construction Boards per WCLIB or WWPA rules. E. Concealed Boards: Where boards will be concealed by other work, provide lumber of 19% maximum moisture content (S-DRY) and of following species and grade:
- F. Southern Pine No. 2 Boards per SPIB rules, or any species graded Construction Boards per WCLIB or WWPA rules.
- 2.4 MISCELLANEOUS LUMBER

A. Provide wood for support or attachment of other work including cant strips, bucks, nails, blocking, furring, grounds, stripping and similar members. Provide lumber of sizes indicated, worked into shapes shown, and as follows:

- 1. Moisture content: 19 percent maximum for lumber items not specified to receive wood preservative treatment.
- 2. Grade: Standard Grade light framing size lumber of any species or board size lumber as required. No. 3 Common
- or Standard grade boards per WCLIB or WWPA rules or No. 3 boards per SPIB rules.
- 3. Span Rating: As required to suit joist spacing indicated. B. Wall Sheathing: APA RATED SHEATHING.
- 1. Exposure Durability Classification: EXTERIOR.
- 2. Span Rating: As required to suit stud spacing indicated on sheet S001
- 3. Roof Sheathing: APA RATED SHEATHING
- C. Exposure Durability Classification: EXTERIOR. 1. Span Rating: As required to suit rafter spacing indicated on sheet S001

D. Plywood Backing Panels: For mounting electrical or telephone equipment, provide fire-retardant treated plywood panels with grade designation, APA C-D PLUGGED INT with exterior glue, in thickness indicated, or, if not otherwise indicated, not less than 3/4".

E. Fiberboard Sheathing: Provide insulating board complying with ASTM C 208 for grade and other requirements listed below:

- . Grade: Regular
- Size and Edges: 1/2" thick x 4' wide x 8' long, with "V"- shaped edges. 2.6 GYPSUM SHEATHING

B. Gypsum Sheathing Standards: Provide gypsum sheathing board complying with FS SS-L-30 for Type II (sheathing), Class 2 (water- resistant surfaces), Form a (plain back), Grade (core) and Style indicated below; and with ASTM C 79.

C. Grade W: Water-resistant treated core.

D. Style: V-tongue and groove long edges, square ends.

- E. Thickness: 1/2" or as called for on drawings. F. Size: 2'-0" x 8'-0".
- 2.7 MISCELLANEOUS MATERIALS

A. Fasteners and Anchorages: Provide size, type, material and finish as indicated and as recommended by applicable standards, complying with applicable Federal Specifications for nails, staples, screws, bolts, nuts, washers and anchoring devices. Provide metal hangers and framing anchors of the size and type recommended by the manufacturer for each use including recommended nails.

B. Where rough carpentry work is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners and anchorages with a hot-dip zinc coating (ASTM A

C. Building Paper: ASTM D 226, Type I; asphalt saturated felt, non-perforated, 15-lb. type or as shown on drawings.

2.8 WOOD TREATMENT

A. Preservative Treatment: Where lumber or plywood is indicated as "P.T." or "Treated," or is specified herein to be treated, comply with applicable requirements of AWPA Standards C2 (Lumber) and C9 (Plvwood) and of AWPB Standards listed below. Mark each treated item with the AWPB Quality Mark Requirements. B. Pressure-treat above-ground items with water-borne preservatives to comply with AWPB LP-2. After treatment, kiln-dry lumber and plywood to a maximum moisture content,

respectively, of 19%%% and 15%%%. Treat indicated items and the following:

C. Wood cants, nailers, curbs, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers and waterproofing.

D. Wood sills, sleepers, blocking, furring, stripping and similar concealed members in contact with masonry or concrete. E. Wood framing members less than 18" above grade.

F. Complete fabrication of treated items prior to treatment, where possible. If cut after treatment, coat cut surfaces with heavy brush coat of same chemical used for treatment and to comply with AWPA M4. Inspect each piece of lumber or plywood after drying and discard damaged or defective pieces.

- G. Fire Retardant & Treatment: Refer to p. 6100-2. 3.0 EXECUTION
- 3.1 INSTALLATION, GENERAL

A. Discard units of material with defects which might impair quality of work, and units which are too small to use in fabricating work with minimum joints or optimum joint arrangement. B. Set carpentry work to required levels and lines, with members plumb and true and cut and fitted.

C. Securely attach carpentry work to substrate by anchoring and fastening as shown and as required by recognized standards. Countersink nail heads on exposed carpentry work and fill holes

D. Use common wire nails, except as otherwise indicated. Use finishing nails for finish work. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting of wood; predrill as required. 3.2 WOOD GROUNDS, NAILERS, BLOCKING, AND SLEEPERS

A. Provide wherever shown and where required for screeding or attachment of other work. Form to shapes as shown and cut as required for true line and level of work to be attached. Coordinate location with other work involved.

B. Attach to substrates as required to support applied loading. Countersink bolts and nuts flush with surfaces, unless otherwise show. Build into masonry during installation of masonry work. Where possible, anchor to formwork before concrete placement.

C. Provide permanent grounds of dressed, preservative treated, key- beveled lumber not less than 1-1/2" wide and of thickness required to bring face of ground to exact thickness of finish material involved. Remove temporary grounds when no longer required.

3.3 WOOD FURRING

A. Install plumb and level with closure strips at edges and openings. Shim with wood as required for tolerance of finished work. B. Firestop furred spaces on walls at each floor level and at ceiling line of top story, with wood blocking or noncombustible materials, accurately fitted to close furred spaces.

C. Use "Wil-Seal" or equal at roof line. D. Furring to Receive Gypsum Drywall: Unless otherwise shown, provide 1" x 2" furring at 16" o.c., vertically (unless called for otherwise on the drawings).

3.4 WOOD FRAMING, GENERAL

A. Provide framing members of sizes and on spacings shown, and frame openings as shown, or if not shown, comply with recommendations of "Manual for House Framing" of

National Forest Products Association (N.F.P.A.). Do not splice structural members between supports. B. Anchor and nail as shown, and to comply with "Recommended Nailing Schedule" of "Manual for House Framing" and "National Design Specifications for Wood Construction published by N.F.P.A. C. Firestop concealed spaces with wood framed walls and partitions at each floor level and at the ceiling line of the top story. Where firestops are not automatically provided by the framing system used, use closely-fitted wood blocks of nominal 2" thick lumber of the same width as framing members.

#### 3.5 STUD FRAMING

A. Construct corners and intersections with not less than 3 studs. Provide miscellaneous blocking and framing as shown and as required for support of facing materials, fixtures,

specialty items and trim. B. Provide continuous horizontal blocking row at mid-height of single-story partitions over 8' high and at midpoint of multi- story partitions, using 2" thick members of same width as

wall or partitions. C. Frame openings with multiple studs and headers. Provide nailed header members of thickness equal to width of studs. Set headers on edge and support on jamb studs. D. For non-bearing partitions, provide double-iamb studs and headers not less than 4" deep for openings 3' and less in width, and not less than 6" deep for wider openings. For loadbearing partitions, provide double-jamb studs for openings 6' and less in width, and triple-jamb studs for wider openings. Provide headers of depth shown, or if not shown, provide as

recommended by N.F.P.A. "Manual for House Framing". E. Provide diagonal bracing in stud framing of exterior walls, except as otherwise indicated. Brace both walls at each external corner, full story height, at a 45 degree angle, using either a let-in 1 x 4 or 2 x 4 blocking or metal diagonal bracing. F. Plywood sheathing or corner bracing, 4' wide panels vertically.

## 3.6 GYPSUM WALL SHEATHING

A. General: Provide gypsum board sheathing where shown. Fasten to exterior face of stud framing for exterior walls. Use 1-1/2" long, 11 gage galvanized roofing nails with 3/8" head or 15 gage, divergent point galvanized staples 1/2" wide x 1-1/2" long. Keep perimeter fasteners 3/8" from edges and ends of board units. Fit boards tightly against each other and around openings.

B. Install 4' x 8' sheathing horizontally with long edges at right angles to studs with grooved edge down. Center end joints over supports and stagger in each course. Nail or staple to each support in accordance with manufacturer's recommended spacing, but provide not less than 4 fasteners per 2' width per stud if framing is diagonally braced, or not less than 7 fasteners per 2' width per stud if not braced.

#### SECTION 064100 - ARCHITECTURAL WOOD CASEWORK

#### 1.0 GENERAL **1.1 SECTION REQUIREMENTS**

A. Submittals: Shop Drawings, Samples showing the full range of colors available for each type of finish and AWI Quality Certification Program certificates.

B. Fabricator Qualifications: Certified participant in AWI's Quality Certification Program. C. Installer Qualifications: Fabricator of products.

D. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is completed, and HVAC system is operating.

**1.2 ARCHITECTURAL CABINETS** A. Quality Standard: AWI, AWMAC, and WI's "Architectural Woodwork Standards."

- B. Plastic-Laminate Cabinets: Premium grade.
- 1. Type of Construction: Frameless 2. Cabinet and Door and Drawer Front Interface Style: Flush overlay.

3. Laminate Cladding: Horizontal surfaces other tops, Grade HGS; postformed surfaces, Grade HGP; vertical surfaces, Grade HGS; edges, Grade HGS; semiexposed surfaces, thermoset decorative panels.

4. Drawer Sides and Backs: Thermoset decorative panels. 5. Drawer Bottoms: Thermoset decorative panels.

2.0 PRODUCTS 2.1 MATERIALS

- A. Wood: Maximum Moisture Content: 5 to 10 percent
- B. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.
- C. Particleboard: ANSI A208.1, Grade M-2, made with binder containing no urea formaldehyde. D. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1, made with adhesive containing no urea formaldehyde.
- E. High-Pressure Decorative Laminate: NEMA LD3.
- 1. Manufacturers: a. Wilsonart; Division of Wilsonart Engineered Surfaces
- b. Formica Corporation; A Fletcher Building company
- c. Nevamar; Panolem Industries International, Inc.
- d. Or Owner-approved Equal. 2.2 CABINET HARDWARE AND ACCESSORY MATERIALS
- A. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 135 degrees of opening.
- B. Wire Pulls: Back mounted, solid metal, 4 inches long, 5/16 inch in diameter. C. Catches: Magnetic catches. BHMA A156.9. B0314
- D. Adjustable Shelf Standards and Supports: BHMA A156.9, B04102; with shelf brackets, B04112 or as noted per drawings.

#### Shelf rests in "Shelf Rests" Paragraph below are installed in holes drilled in cabinet sides and partitions.

E. Shelf Rests: BHMA A156.9, B04013; metal, two-pin type with shelf hold-down clip F. Drawer Slides: BHMA A156.9, B05091. Grades in five slides subparagraphs below correspond to the following initial load test requirements:

Grade 2: 20 lbf, Grade 1: 50 lbf; Grade 1HD-100: 100 lbf; Grade 1HD-200: 200 lbf.

1. Box Drawer Slides: Grade 1.

- 2. File Drawer Slides: Grade 1HD-100.
- 3. Pencil Drawer Slides: Grade 1. 4. Keyboard Slides: Grade 1HD-100.
- 5. Trash Bin Slides: Grade 1HD-100

G. Drawer and Door Locks: BHMA A156.11, E07041

H. Exposed Hardware Finishes: Comply with BHMA A156.18 for BHMA code number indicated. 1. Finish: Satin Stainless Steel: BHMA 630.

J. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated blocking in enclosed walls and Softwood or hardwood lumber, kiln dried to 15% moisture content.

3.0 EXECUTION 3.1 FABRICATION

A. Complete fabrication to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

3.2 INSTALLATION A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.

B. Install cabinets to comply with referenced quality standard for grade specified.

C. Install cabinets level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches. D. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

E. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Fasten with countersunk concealed fasteners and blind nailing. Use fine finishing nails or finishing

screws for exposed nailing, countersunk and filled flush. F. Cabinets: Install so doors and drawers are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Fasten wall cabinets through back, bear top and bottom, at ends and not more than 16 inches o.c. with No. 10 wafer-head screws size for 1-inch penetration into wood framing, blocking, or hanging

strips or No. 10 wafer-head sheet metal screws through metal backing or metal framing behind wall finish.

SECTION 064200 - WOOD PANELING

#### 0 GENERAI 1.1 SECTION REQUIREMENTS

- A. Submittals: Shop Drawings and Samples showing the full range of colors available for each type of finish and AWI Quality Certification Program certificates.
- B. Installer Qualifications: Minimum of 5 years experience in finish carpentry.

Environmental Limitations: Do not deliver or install paneling until building is enclosed, wet work is completed, and HVAC system is operating.

2.0 PRODUCTS 2.1 WOOD PANELING

A. Quality Standard: AWI, AWMAC, and WI's "Architectural Woodwork Standards."

- B. Flush Wood Paneling (Wood-Veneer Wall Surfacing): Premium grade.
- Wood Species: White birch, plain sliced. Matching of Adjacent Veneer Leaves: Pleasing match.

Veneer Matching within Panel Face: Center-balance match.

4. Panel matching: Select and arrange panels for similarity of grain pattern and color between adjacent panels.

2.2 MATERIALS A. Wood Moisture Content: 5 to 10 percent.

B. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1, made with adhesive containing no urea formaldehyde

C. Furring, Blocking, Shims, and Hanging Strips; Softwood or hardwood lumber, kiln dried to 15 percent moisture content.

3.0 EXECUTION 3.1 SHOP FINISHING OF WOOD PANELING

A. Finishes: Same grades as items to be finished.

B. Shop finish transparent-finished wood paneling at fabrication shop.

Apply two coats of sealer or primer to concealed surfaces of woodwork.

Apply a wash coat sealer to paneling made from closed-grain wood before staining and finishing. 3. After staining, if any, apply paste wood filler to open-grain woods and wipe off excess. Tint filler to match stained wood.

Transparent Finish:

Finish: System - 8, water-based cross linking acrylic.

2. Sheen: Satin or Semigloss. Verify finish with Owner. 3.2 INSTALLATION

A. Before installation, condition paneling to average prevailing humidity conditions in installation areas

B. Install paneling to comply with referenced quality standards for grade specified.

Install paneling level, plumb, true and straight to a tolerance of 1/8 inch in 96 inches.

). Scribe and cut stile and rail wood paneling to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

. Anchor paneling to supports with conceal panel-hanger clips and by blind nailing on back-up strips, splined-connection strips, and similar associated trim and framing. Use fine finishing nails or finishing screws for exposed nailing, countersunk and filled flush with woodwork.

SECTION 064600 - WOOD TRIM 1.1 SECTION REQUIREMENTS

A. Section includes standing and running trim, jambs, and frames.

3. Submittals: Shop Drawings and Samples showing the full range of colors, textures, and patterns available for each type of finish.

Installer Qualifications: Minimum of 5 years experience.

D. Environmental Limitations for Interior Wood Trim: Do not deliver or install interior wood trim until building is enclosed, wet work is completed, and HVAC system is operating.

2.1 WOOD TRIM

A. Quality Standard: AWI, AWMAC, and WI's "Architectural Woodwork Standards." B. Interior Trim for Transparent Finish: Premium grade, clear, poplar or white birch as noted on plans, plain sliced/plain sawn.

1. Fire Rated Interior Frames and Jambs (where required): Products fabricated from fire-retardant particle board or fire-retardant, medium-density fiberboard with veneered exposed surfaces and listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for 20 minutes fire rating, based on testing

according to NFPA 252.

C. Interior Trim for Opaque Finish: #1 Custom grade, made from any closed-grain hardwood.

2.2 INTERIOR STANDING AND RUNNING TRIM

A. Interior Hardwood Lumber Trim: Premium grade, clear, kiln-dried, poplar or white birch. B. Wood Moldings: WMMPA WM 4 made to patterns in WMMPA WM 12 from kiln-dried stock.

Hardwood Moldings for Transparent Finish: Premium grade, clear, kiln-dried, poplar or white birch.

. Profiles: Sizes per drawings.

. Wood Moisture Content for Interior Woodwork: 5 to 10 percent. D. Blocking and Shims: Softwood or hardwood lumber, kiln-dried.

E. Interior Trim for Opaque Finish: #1 Custom grade, made from any closed-grain hardwood.

2.3 SHOP PRIMING

A. Shop prime wood trim for opaque finish with one coat of specified wood primer.

2.4 SHOP FINISHING OF INTERIOR WOOD TRIM A. Finishes: Same grade as items to be finished.

B. Shop finish transparent-finished interior wood trim at fabrication shop

Apply one coat of sealer of primer to concealed surfaces of wood trim. Apply two coats to end-grain surfaces.

Apply a wash coat sealer to wood trim made from closed-grain wood before staining and finishing. After staining, if any, apply paste wood filler to open grain woods and wipe off excess. Tint filler to match stained wood.

Transparent Finish:

Finish: System - 8, water-based cross linking acrylic.

2. Sheen: Satin or semigloss - Verify with Owner.

# 3.1 INSTALLATION B. Install wood trim to comply with referenced quality standard for grade specified

1.1 RELATED DOCUMENTS

1.3 ACTION SUBMITTALS

PART 2 - PRODUCTS

b. <u>DuPont de Nemours, Inc</u>.

. <u>Raven Industries, Inc.</u>

2.2 FLEXIBLE FLASHING

<u>DuPont de Nemours, Inc</u>.

Polyguard Products, Inc.

PART 3 - EXECUTION

1.0 GENERAL

B. Related requirements:

1.2 COORDINATION

1.3 ACTION SUBMITTALS

1.5 QUALITY ASSURANCE

1.1 SUMMARY

b. <u>Protecto Wrap Company</u>.

c. Raven Industries, Inc.

1.2 SUMMARY

A. Section Includes:

2. Flexible flashing.

1. Building wrap.

). Scribe and cut wood trim to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts. E. Anchor wood trim to anchors or blocking built in or directly attached to substrates. Fasten with countersunk concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed nailing, countersunk and filled flush with woodwork. F. Interior Standing and Running Trim: Install with minimum number of joints possible using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use pieces less than 96 inches long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members. SECTION 07 25 00 - WATER BARRIERS PART 1 - GENERAL

A. Before installation, condition wood trim to average prevailing humidity conditions in installation area.

Install wood trim level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

A. Product Data: For each type of product.

1. For building wrap, include data on air and water-vapor permeance based on testing according to referenced standards. B. Shop Drawings: Show details of building wrap at terminations, openings, and penetrations. Show details of flexible flashing applications. 1.4 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For water-resistive barrier and flexible flashing, from ICC-ES.

2.1 WATER-RESISTIVE BARRIEF A. Building Wrap: ASTM E 2556, Type 1 water-resistive barrier; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E84; UV stabilized; and acceptable to authorities having jurisdiction.

Manufacturers: Subject to compliance with requirements, provide products by one of the following: Dow Chemical Company (The).

Water-Vapor Permeance: Not less than 75 perms (4300 ng/Pa x s x sq. m) per ASTM E96/E96M, Desiccant Method (Procedure A). 3. Air Permeance: Not more than 0.004 cfm/sq. ft. at 0.3-inch wg (0.02 L/s x sq. m at 75 Pa) when tested according to ASTM E2178. Allowable UV Exposure Time: Not less than three months. 5. Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285.

B. Building-Wrap Tape: Pressure-sensitive plastic tape recommended by building-wrap manufacturer for sealing joints and penetrations in building wrap.

A. Butyl Rubber Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm). 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285.

B. Rubberized-Asphalt Flashing: Composite, self-adhesive, flashing product consisting of a pliable, rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm). 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:

a. Advanced Building Products Inc. Carlisle Coatings & Waterproofing Inc

Flame Propagation Test: Materials and construction shall be as tested according to NFPA 285. C. Primer for Flexible Flashing: Product recommended in writing by flexible flashing manufacturer for substrate

D. Nails and Staples: Product recommended in writing by flexible flashing manufacturer and complying with ASTM F1667.

3.1 WATER-RESISTIVE BARRIER INSTALLATION

A. Cover exposed exterior surface of sheathing with water-resistive barrier securely fastened to framing immediately after sheathing is installed. B. Cover sheathing with water-resistive barrier as follows:

1. Cut back barrier 1/2 inch (13 mm) on each side of the break in supporting members at expansion- or control-joint locations.

. Apply barrier to cover vertical flashing with a minimum 4-inch (100-mm) overlap unless otherwise indicated. C. Building Paper: Apply horizontally with a 2-inch (50-mm) overlap and a 6-inch (150-mm) end lap; fasten to sheathing with galvanized staples or roofing nails. D. Building Wrap: Comply with manufacturer's written instructions and warranty requirements.

1. Seal seams, edges, fasteners, and penetrations with tape.

Extend into jambs of openings and seal corners with tape.

E. At Stone Veneer: Install two (2) layers of water-resistive barrier behind stone veneer over wood construction. The first layer (directly over sheathing) serves as the wall system's air and water barrier and shall be integrated with window and door flashings, the weep screed at the bottom of the wall, and any through wall flashing or expansion joints. Lath shall be installed over the intervening layer (second layer) in accordance with ASTM C1063-03 Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster, and applicable codes.

3.2 FLEXIBLE FLASHING INSTALLATION A. Apply flexible flashing where indicated to comply with manufacturer's written instructions.

1. Prime substrates as recommended by flashing manufacturer.

2. Lap seams and junctures with other materials at least 4 inches (100 mm) except that at flashing flanges of other construction, laps need not exceed flange width. Lap flashing over water-resistive barrier at bottom and sides of openings.

Lap water-resistive barrier over flashing at heads of openings.

. After flashing has been applied, roll surfaces with a hard rubber or metal roller to ensure that flashing is completely adhered to substrates. 3.3 DRAINAGE MATERIAL INSTALLATION

Install drainage material over building wrap and flashing to comply with manufacturer's written instructions. SECTION 074646 - FIBER-CEMENT SIDING

A. Section includes fiber-cement siding and soffit.

Section 061000 "Rough Carpentry" for wood furring, grounds, nailers, and blocking. . Section 072500 "Weather Barriers" for weather-resistive barriers.

A. Coordinate siding installation with flashings and other adjoining construction to ensure proper sequencing.

A. Product data: For each type of product. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Samples for verification: For each type, color, texture, and pattern required. 1. 12-inch-long-by-actual-width sample of siding.

2. 24-inch-wide-by-36-inch-high sample panel of siding assembled on plywood backing. 3. 12-inch-long-by-actual-width sample of soffit.

4. 12-inch-long-by-actual-width samples of trim and accessories. 1.4 INFORMATIONAL SUBMITTALS

A. Product certificates: For each type of fiber-cement siding and soffit.

B. Product test reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for fiber-cement siding. C. Research/evaluation reports: For each type of fiber-cement siding required, from ICC-ES.

#### D. Sample warranty: For special warranty.

A. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.

#### 1. Build mockups for fiber-cement siding and soffit including accessories. A. Size: 48 inches long by 60 inches high.

B. Include outside corner on one end of mockup and inside corner on other end. Approval of mockups does not constitute approval of deviations from the contract documents contained in mockups unless architect specifically approves such deviations in

3. Subject to compliance with requirements, approved mockups may become part of the completed work if undisturbed at time of substantial completion.

1.6 DELIVERY, STORAGE, AND HANDLING A. Deliver and store packaged materials in original containers with labels intact until tim

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081100 contin. 1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver doors and frames cardboard-wrapped or crated to provide protection during transit and job storage.

B. Inspect doors and frames on delivery for damage. Minor damages may be repaired provided refinished items match new work and are acceptable to Architect; otherwise, remove and replace damaged items as directed.

2.0 PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following

1. Steel Doors and Frames:

a. Amweld Building Products, Inc.;

b. <u>Ceco Door Products;</u> Republic Builders Products

d. Steelcraft

2.2 MATERIALS

A. Hot-Rolled Steel Sheets and Strip: Commercial-quality carbon steel, pickled and oiled, complying with ASTM A 569. B. Cold-Rolled Steel Sheets: Carbon steel complying with ASTM A 366, commercial quality, or ASTM A 620.

. Supports and Anchors: Fabricated from not less than 18 gage thick steel sheet.

2.3 DOORS

A. Steel Doors: Provide 1-3/4-inch thick doors of materials and ANSI/SDI 100 grades and model specified below: 1. Exterior Doors: Grade II, heavy-duty, Model 2, seamless design, minimum 0.0516-inch thick galvanized steel sheet faces.

2.4 FRAMES

A. Provide metal frames for doors, transoms, sidelights, borrowed lights, and other openings, according to ANSI/SDI 100. Fabricate frames of minimum 0.0478-inch thick cold-rolled steel sheet

B. Fabricate frames with mitered or coped and continuously welded corners.

C. Door Silencers: Except on weather-stripped frames, drill stops to receive 3 silencers on strike jambs of single-door frames and 2 silencers on heads of double-door frames. 2.6 FABRICATION

A. Exposed Fasteners: Unless otherwise indicated, provide countersunk flat or oval heads for exposed screws and bolts.

- B. Thermal-Rated (Insulating) Assemblies: At exterior locations and elsewhere as shown or scheduled, provide doors fabricated as thermal-insulating door and frame assemblies. C. Hardware Preparation: Prepare doors and frames to receive mortised and concealed hardware according to final door hardware schedule and templates provided by hardware
- supplier. Comply with applicable requirements of SDI 107 and ANSI A115 Series specifications for door and frame preparation for hardware. D. Reinforce doors and frames to receive surface-applied hardware. Drilling and tapping for surface-applied hardware may be done at Project site.

E. Locate hardware as indicated on Shop Drawings or, if not indicated, according to the Door and Hardware Institute's (DHI) "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."

2.7 FINISHES, GENERAL A. Apply primers and organic finishes to doors and frames after fabrication:

2.8 STEEL SHEET FINISHES

A. Factory priming for Field-Painted Finish: Apply shop primer that complies with ANSI A224.1 acceptance criteria, is compatible with finish paint systems indicated, and has capability to provide a sound foundation for field-applied topcoats. Apply primer immediately after surface preparation and pretreatment.

3.1 EXECUTION

3.2 INSTALLATION

A. Install steel doors, frames, and accessories according to Shop Drawings, manufacturer's data, and as specified.

B. Placing Frames: Comply with provisions of SDI 105, unless otherwise indicated. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged. C. In masonry construction, install at least 3 wall anchors per jamb adjacent to hinge location on hinge jamb and at corresponding heights on strike jamb. Acceptable anchors include

masonry wire anchors and masonry T-shaped anchors. D. Door Installation: Fit doors accurately in frames, within clearances specified in ANSI/SDI 100.

# SECTION 081113 - HOLLOW METAL DOORS AND FRAMES 1.0 GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Shop Drawings. 2.0 PRODUCTS

2.1 HOLLOW METAL DOORS AND FRAMES

A. <u>Manufacturers</u>: One of the following:

Amweld Building Products, LLC;

Ceco Door Products; an Assa Abloy Group Company;

- Curries Company; an Assa Abloy Group Company; Fleming Door Products Ltd.; an Assa Abloy Group Company;
- Kewanee Corporation (The);
- Pioneer Industries, Inc;
- Steelcraft; an Ingersoll-Rand company;
- or Owner-approved equal.

B. Fire-Rated Doors and Frames: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, based on testing at positive pressure according to NFPA 252 or UL 10C.

1. Where indicated, provide doors that have a temperature rise rating of 450 deg. F (250 deg. C). C. Doors: Complying with SDI A250.8 for level and model and SDI A250.4 for physical-endurance level indicated, 1-3/4 inches (44 mm) thick unless otherwise indicated.

Interior Doors: Level 1 and Physical Performance Level C (Standard Duty), Model 1 (Full Flush).

- 2. Exterior Doors (when required): Level 2 and Physical Performance Level B (Heavy Duty) Model 2 (Seamless), metallic-coated steel sheet faces. a. Thermal-Rated (Insulated) Doors: Where indicated, provide doors with thermal-resistance value (R-Value) of not less than 2.1 deg. F x h x sg. ft./ Btu (0.370 K x sg.m/W) when
- tested according to ASTM C 1363.

3. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as door face sheets.

D. Frames: ANSI A250.8; conceal fastenings unless otherwise indicated. Steel Sheet for Interior Frames: 0.042-inch- (1.0-mm-) minimum thickness.

Steel Sheet for Exterior Frames: 0.053-inch- (1.3-mm-) minimum thickness, metallic coated.

- 3. Interior Frame Construction: Knocked down or Face welded, per door schedule.
- 4. Exterior Frame Construction: Face welded.
- Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
- Frame Anchors: Not less than 0.042 inch (1.0 mm) thick.

E. Door Silencers: Three on strike jambs of single-door frames and two on heads of double-door frames. . Grout Guards: Provide where mortar might obstruct hardware operations.

- G. Prepare doors and frames to receive mortised and concealed hardware according to SDI A250.6 and BHMA A156.115.
- H. Reinforce doors and frames to receive surface-applied hardware. Prime Finish: Manufacturer's standard, factory-applied coat of lead- and chromate-free primer complying with SDI A250.10 acceptance criteria.
- 2.2 MATERIALS

#### A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, suitable for exposed applications.

- B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, free of scale pitting, or surface defects.
- Metallic-Coated Steel Sheet: ASTM A 653/ A 653M. G60 (Z180 or) A60 (ZF180).

D. Frame Anchors: ASTM A 879/A 879M, 4Z (12G) coating designation; mill phosphatized. 1. For anchors built into exterior walls, sheet steel complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, hot-dip galvanized according to ASTM A 153/A 153M, Class B.

E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.

- 3.0 EXECUTION 3.1 INSTALLATION
- A. Install hollow metal frames to comply with SDI A250.11.
- 1. Fire-Rated Frames: Install according to NFPA 80.

B. Install doors to provide clearances between doors and frames as indicated in SDI A250.11. C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of comparable air-drying rust -inhibitive primer. Use galvanizing repair paint for metallic coated surfaces.

SECTION 081416 - FLUSH WOOD DOORS

1.0 GENERAL

- 1.1 SECTION REQUIREMENTS A. Submittals: Samples for factory-finished doors.
- 2.0 PRODUCTS

2.1 FLUSH WOOD DOORS

- A. Manufacturers: One of the following: 1. Eagle Plywood & Door Manufacturing, Inc.;
- . Eggers Industries;
- 3. Graham; an Assa Abloy Group Company;
- Mohawk Flush Doors, Inc.: a Masonite Company;
- Oshkosh Architectural Door Company; Vancouver Door Company;
- VT Industries, Inc.;
- 8. Or Owner-approved equal.
- 2.2 DOOR CONSTRUCTION, GENERAL
- A. Quality Standards: WDMA I.S.I-A.
- B. Fire-Rated Wood Doors: Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing at positive pressure according to NFPA 252 or
- UL 10C.

1. Where indicated, provide doors that have a temperature rise rating of 450 deg. F. (250 deg. C.). C. Low-Emitting Materials: Provide doors made with adhesives and composite wood products that do not contain urea formaldehyde.

- . WDMA I.S.I-A Performance Grade:
- Heavy Duty unless otherwise indicated 2. Extra Heavy Duty: Public toilets, janitor's closets, and patient rooms.

E. Particleboard-Core Doors: Provide blocking in particleboard cores or provide structural composite lumber cores instead of particleboard cores for doors with exit devices or

- protection plates.
- F. Fire-Protection-Rated Doors: Provide core specified or mineral core as needed to provide fire-protection rating indicated. Provide the following for mineral core doors:
- . Composite blocking where required to eliminate through-bolting hardware. 2. Laminated-edge construction.
- 3. Formed-steel edges and astragals for pairs of doors.
- 2.3 FLUSH WOOD DOORS

3.0 EXECUTION

A. Doors for Transparent Finish: 1. Interior Solid-Core Doors: Premiu, grade, five-ply, particleboard or structural composite lumber cores.

1. At fire-rated doors provide wood-veneered beads for use in doors of fire-protection rating indicated.

A. Factory fit doors to suit frame-opening sizes indicated and to comply with clearances specified.

B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-2.

Faces: Grade A rotary-cut select white birch or plain sliced select white maple.

Cut and trim openings to comply with referenced standards.

2. Factory install glazing in doors indicated to be factory finished.

- a. Veneer Matching: Slip and running or Pleasing match.
- b. Pair matching and set matching. c. Continuous matching for doors with transoms.
- 2.4 LOUVERS AND LIGHT FRAMES A. Light Frames: Wood beads of same species as door faces.

. Trim light openings with moldings indicated.

3. Factory install louvers in prepared openings.

3.1 FABRICATION AND FINISHING

D. Factory finish doors (optional) indicated for transparent finish with stain and manufacturer's standard finish complying with WDMA TR-6, catalyzed polyurethane for grade specified for doors

1. Sheen: Satin or Semigloss - verify with Owner Representative.

- 3.2 INSTALLATION A. Install doors to comply with manufacturer's written instructions and WDMA I.S.I-A, and as indicated.
- Install doors to comply with NFPA 80. . Align and fit doors in frames with uniform clearances and bevels. Machine doors for hardware. Seal cut surfaces after fitting and machining.
- Clearances: As follows, unless otherwise indicated:
- 1/8 inch at heads, jambs, and between pairs of doors. 1/8 inch from bottom of door to top of decorative floor finish or covering.
- 1/4 inch from bottom of door to top of threshold.
- 4. Comply with NFPA 80 for fire-rated doors. Repair, refinish, or replace factory-finished doors damaged during installation, as directed by Architect.
- SECTION 088000 GLAZING

#### 10 GENERAL

1.1 SUMMARY A. Section includes:

1. Glass for windows, doors, and storefront framing.

- 2. Glazing sealants and accessories. 1.2 ACTION SUBMITTALS
- A. Product Data: For each type of product
- B. Glass Samples: For each type of the following products; 12 inches square.
- 1. Insulated glazing units C. Glazing Accessory Samples: For sealants and colored spacers, in 12-inch lengths. Install sealant Samples between two strips of material representative in color of the adjoining framing system.
- 1.3 INFORMATIONAL SUBMITTALS
- A. Qualification Data: For Installer and manufacturers of insulating-glass units with sputter-coated, low-E coatings. B. Product Certificates: For glass.
- C. Product Test Reports: For coated glass, insulating glass, and glazing sealants, for tests performed by a qualified testing agency.
- 1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period. D. Sample Warranties: For special warranties.
- 1.4 QUALITY ASSURANCE
- A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved and certified by coated-
- glass manufacturer. B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.

## 1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.6 FIELD CONDITIONS A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and

when glazing channel substrates are wet from rain, frost, condensation, or other causes. 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F. 1.7 WARRANTY

A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.

1. Warranty Period: 10 years from date of Substantial Completion. B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated class is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's

written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

# 1. Warranty Period: 10 years from date of Substantial Completion.

C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass. 1. Warranty Period: 10 years from date of Substantial Completion.

2.0 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the followina:

. AGC Glass Company North America, Inc.;

- . <u>Cardinal Glass Industries;</u>
- Guardian Industries Corp.; SunGuard; Oldcastle BuildingEnvelope;
- <u>Pilkington North America</u>
- <u>PPG Industries</u>, Inc.; PPG Flat Glass;
- 7. <u>Viracon, Inc</u>.;

#### B. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.

C. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

## 2.2 PERFORMANCE REQUIREMENTS

A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other

defects in construction. B. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E 1300.

#### 1. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.

a. Basic Wind Speed: 150 mph. b. Importance Factor: 1.0.

c. Exposure Category: D.

2. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch, whichever is less

3. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites. Windborne Debris Impact Resistance: Exterior glazing shall comply with enhanced protection testing requirements in ASTM E 1996 for Wind Zone 4 when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on Project and shall be installed in same manner as glazing indicated for use on

#### 1. Large-Missile Test: Enhanced Protection E for glazed openings located within 30 feet of grade.

D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures

#### indicated below

. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 program, expressed as Btu/sq. ft. x h x deg F.

Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program. 2.3 GLASS PRODUCTS - GENERAL A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See

these publications for glazing terms not otherwise defined in this Section or in referenced standards.

GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual".

IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use". B. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.

#### 2.4 GLASS PRODUCTS

A. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear), Quality-Q3. . Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

#### 2.5 LAMINATED GLASS

A. Windborne Debris Impact-Resistant Laminated Glass: Comply with requirements specified above for laminated glass except laminate glass with one of the following to comply with interlayer manufacturer's written instructions:

#### 1. Polyvinyl butyral interlayer:

Polyvinyl butyral interlayers reinforced with polyethylene terephthalate film;

#### 3. Ionomeric polymer interlayer; 4. Cast-in-place and cured-transparent-resin interlayer;

i. Cast-in-place and cured-transparent-resin interlayer reinforced with polyethylene terephthalate film.

## 2.6 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.

#### Sealing System: Dual seal, with manufacturer's standard and secondary sealants. Perimeter Spacer: Manufacturer's standard spacer material and construction.

Desiccant: Molecular sieve or silica gel, or a blend of both.

## 2.7 GLAZING SEALANTS

. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT.

#### Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following

a. BASF Corporation; Construction Systems;

## Dow Corning Corporation;

GE Construction Sealants; Momentive Performance Materials Inc.; May National Associates, Inc.; a subsidiary of Sika Corporation;

Pecora Corporation; Polymeric Systems, Inc.

Sika Corporation;

#### Tremco Incorporated 2.8 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; non-staining and non-migrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:

#### 1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types: AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant

#### 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.9 MISCELLANEOUS GLAZING MATERIALS A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for

## application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners. Primers. and Sealers: Types recommended by sealant or gasket manufacturer.

. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5. D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

E. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant

#### performance. 2.10 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written

- instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements. 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
- a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

#### 3.1 EXAMINATION A. Examine framing, glazing channels, Manufacturing and installation tolera

	· · · · · · · · · · · · · · · · · · ·
24 EEE/TOOL         35 EEE/TOOL         45 EVALUATION         46 EVALUATION         47 EVALUATION         48 EVALUATION         48 EVALUATION         49 EVALUATION         49 EVALUATION         41 EVALUATION         41 EVALUATION         41 EVALUATION         42 EVALUATION         43 EVALUATION         44 EVALUATION         45	FISHER AND ASSOCIATES, LLCTHIS DRAWING AND ALL INFORMATION CONTAINED HEREINIS THE DRAWING AND AND ASSOCIATES, AND THE RECLUSIVE PROPERTY OF FISHER AND ASSOCIATES, AND TO FOR GENERAL USE OF MY KNOWLEDGE, THE SPECIFICATION AND TO THE BEST OF MY KNOWLEDGE. THE SPECIFICATION AND PLANS SHOWN HEREIN COMPLY WITH THE APPLICABLE MINUM MULDING CODES IN FFECT AT THIS TIME.47874787
<ul> <li>B. Film-Backed Safety Mirrors: Apply film backing with adhesive coating over mirror backing paint as recommended in writing by film-backing manufacturer.</li> <li>15 INSTALLATION</li> <li>A. Provide a minimum air space of 1/8 inch (3 mm) between back of mirrors and mounting surface for air circulation between back of mirrors and face of mounting surface.</li> <li>B. Wall-Mounted Mirrors: Install mirrors with mastic and mirror hardware. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed so heads do not impose point loads on backs of mirrors.</li> <li>1. Top and Bottom Aluminum J-Channels: Provide setting blocks 1/8 inch (3 mm) thick by 4 inches (100 mm) long at quarter points.</li> <li>2. Mirror Clips: Place a felt or plastic pad between mirror and each clip. Locate clips so they are symmetrically placed and evenly spaced.</li> <li>3. Apply maxitic to comply with mastic manufacturer's written instructions for coverage and to allow air circulation between back of mirrors and face of mounting surface.</li> <li>C. Remove non-permanent labels, and clean surfaces immediately after installation.</li> <li>D. Install per Accessibility requirements.</li> </ul> SECTION 092550 - GYPSUM BOARD ASSEMBLIES 1.1 GENERAL 1.2 SUMMARY A. This Section includes the following: 1. Non-load bearing steel framing members for gypsum board assemblies. 2. Gypsum board assemblies attached to steel framing. 1.3 DELIVERY, STORAGE, AND HANDLING A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier. B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Neally stack gypsum parels flat to prevent sagging. C. Handle gypsum board to prevent damage to edges, ends, and surfaces. Do not bend or otherwise damage metal correr beads a	Signature    Signature      Signature    Signature      Released For:    12.11.23      Permit    12.11.23      Constr.    Signature      REVISIONS:    Signature
<ol> <li>PROJECT CONDITIONS</li> <li>Environmental Conditions, General: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C 840 and with gypsum board manufactures: For non-adhesive attachment of gypsum board to framing, m</li> <li>Room Temperatures: For non-adhesive attachment of gypsum board to framing, m</li> </ol>	WILLIAM JOE FISHER ARCHITECT 0010829
HEARTLAND DENTAL PROVIDED SPECIFICATIONS ON THESE	,

SHEETS ARE FOR REFERENCE ONLY. SPECIFICATIONS PROVIDED ARE NOT MEANT TO REPRESENT AN EXHAUSTIVE OR ALL ENCOMPASSING LIST OF THE PROJECT REQUIREMENTS. ALL SPECIFICATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.

A703

Project Date: 1/31/23

oject No.: 223001

- Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm. per ASTM E 648.
- K. Emissions: Provide carpet that complies with testing and product requirements of CRI's "Green Label Plus" program. 2.2 INSTALLATION ACCESSORIES
- A. Carpet Tile Adhesives: Pressure-sensitive type that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for
- conditions indicated for releasable installation. 1. Low-Emitting Materials: Adhesives shall have a VOC content of 50 g/L or less.
- 3.0 EXECUTION
- 3.1 INSTALLATION A. Comply with CRI 104.
- B. Carpet Tile Installation Method: As recommended by manufacturer. 1. Install borders parallel to walls, when required.
- SECTION 099000 PAINTING AND COATING 1.0 GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: 1. Product Data. Include printout of MPI's "MPI Approved Products List" with product highlighted.
- Samples. B. Mockups: Full-coat finish Sample of each type of coating, color, and substrate, applied where directed.
- C. Extra Materials: Deliver to Owner 1 gal. (3.8 L) of each color and type of finish coat paint used on Project, in containers, properly labeled and sealed.
- 2.0 PRODUCTS 2.1 PAINT
- A. Manufacturers:
- 1. Benjamin Moore & Co. 2. Sherwin-Williams Company (The).
- B. MPI Standards: Provide materials that comply with MP standards indicated and listed in its "MPI Approved Products List".
- 1. Interior Painting Materials:
- a. Primer Sealer, Latex: MPI #50 b. Primer Sealer, Institutional Low Odor/VOC: MPI #149
- c. Primer, Latex, for Interior Wood: MPI #39.
- d. Primer, Glavanized, Water Based: MPI #134. e. Latex, Interior, Semigloss, (Gloss Level 5): MPI #54.
- f. Latex, Institutional Low Odor/VOC, Semigloss (Gloss Level 5): MPI #147.
- g. Latex, High Performance Architectural, Semigloss (Gloss Level 5): MPI #141.
- h. Alkyd, Interior, Semigloss (Gloss Level 5): MPI #47. i. Alkyd, Quick Dry, Semigloss (Gloss Level 5): MPI #81.
- 2. Staining and Clear Finishing Materials:
- a. Wood Filler Paste: MPI #91 b. Alkyd, Sanding Sealer, Clear: MPI #102
- c. Stain, Semitransparent, for Interior Wood: MPI #90
- d. Varnish, Interior, Polyurethane, Oil-Modified, Satin (Gloss Level 4): MPI #57
- e. Varnish, Interior, Polyurethane, Oil-Modified, Gloss (Gloss Level 6): MPI #56 f. Varnish, Polyurethane, Moisture-Cured, Gloss (Gloss Level 6): MPI #31
- g. Varnish, Aliphatic Polyurethane, Two-Component (Gloss Level 6 or 7): MPI #78
- C. Material Compatibility: Provide materials that are compatible with one another and with substrates.
- 1. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and one substrate indicated.
- D. Use interior paints and coatings that comply with the following limits for VOC content: 1. Nonflat Paints, Coatings: 150 g/L
- 2. Dry-Fog Coatings: 400 g/L
- 3. Primers, Sealers, and Undercoaters: 200 g/L
- 4. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L
- 5. Clear Wood Finishes, Varnishes: 350 g/L 6. Clear Wood Finishes, Lacquers: 550 g/L
- 7. Stains: 250 g/L
- E. Colors: As selected
- 3.0 EXECUTION 3.1 PREPARATION
- A. Comply with recommendations in MPI's "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove hardware, lighting fixtures, and similar items that are not to be painted. Mask items that cannot be removed. Reinstall items in each area after painting is complete. C. Clean and prepare surface in an area before beginning painting in that are. Schedule painting so cleaning operations will not damage newly painted surfaces.
- 3.2 APPLICATION
- A. Comply with recommendations in MPI's "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Paint exposed surfaces, new and existing, unless otherwise indicated.
- 1. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. 2. Paint surfaces behind permanently fixed equipment or furniture with prime coat only.
- 3. Paint the back side of access panels.
- 4. Color-code mechanical piping in accessible ceiling spaces.
- 5. Do not paint prefinished items, items with an integral finish, operating parts, and labels unless otherwise Indicated.
- C. Apply paints according to manufacturer's written instruction.
- 1. Use brushes only for exterior painting and where the use of other applicators is not practical. 2. Use rollers for finish coat on interior walls and ceilings.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections, cut in
- sharp lines and color breaks. 1. If undercoats or other conditions show through topcoat, apply additional coats until cured fill has a uniform paint finish, color, and appearance.
- E. Apply stains and transparent finishes to produce surface films without color irregularity, cloudiness, holidays, lap marks, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks. Use multiple coats to produce a smooth surface film of even luster.

3.3 INTERIOR PAINT APPLICATION SCHEDULE A. Concrete Masonry Units:

- 1. Semigloss, Institutional Low-Odor/VOC Latex: Two coats over latex block filler: MPI INT 4.2E.
- B. Steel: 1. Semigloss, Alkyd Enamel: Two coats over quick-drying alkyd primer: MPI INT 5.1E.
- C. Galvanized Metal:
- 1. Semigloss, Institutional Low Odor/VOC Latex: One coat over waterborne galvanized-metal primer: MPI INT 5.3N.
- D. Wood: Including non-stained architectural woodwork. 1. Semigloss, Institutional Low Odor/VOC Latex: Two coats over latex primer for wood: MPI INT 6.3V.
- E. Gypsum Board:
- Satin or Semigloss (verify with Owner) Institutional Low Odor/VOC Latex: Two Coats over low odor/VOC Tinted primer/sealer: MPI INT 9.2M
- 3.3 INTERIOR STAIN AND CLEAR FINISH APPLICATION SCHEDULE A. Wood substrates, non-traffic surfaces, including wood trim, architectural woodwork, doors, windows, wood-based panel products.
- Semitransparent Stain: Two coats: MPI INT 6.1G.
- 2. Semigloss of Gloss Alkyd Varnish over Stain: Two coats over sanding sealer and stain: MPI INT 6.1P. 3. Satin or Gloss Oil-Modified Polyurethane Varnish over Stain: Three coats over stain: MPI INT 6.1J.
- SECTION 101400 SIGNAGE 1.0 GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data, Shop Drawings, and Samples.
- 1.2 SIGNS, GENERAL
- A. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Carriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC A117.1.
- 2.0 PRODUCTS
- 2.1 PANEL SIGNS A. Manufacturers: One of the following:
- . ASI Sign Systems, Inc.
- Best Sign Systems, Inc
- Or approved equal.
- B. Interior Panel Signs: Enamel-filled, reverse-engraved clear acrylic or Reverse silk-screened clear acrylic with opaque background with beveled edges and square or rounded corners.
- 1. Finishes and Colors: As selected from manufacturer's full range.
- . Tactile Characters: Characters and Grade 2 Braille raise 1/32 inch (0.8 mm) above surface with contrasting colors. 3. Provide signs for all rooms mounted on the wall beside the room door.
- 2.2 MATERIALS
- A. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing). B. Plastic Laminate: High-pressure laminate engraving stock with face and core in contrasting colors.
- 3.0 EXECUTION
- 3.1 INSTALLATION
- A. Locate signs where indicated or directed by Architect. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance. B. Wall-Mounted Signs:
- . Two-Face Tape: Mount signs to smooth, non-porous surfaces, other than vinyl
- Mechanical Fasteners: Use non-removable mechanical fasteners placed through predrilled holes. SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES
- 1.0 GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data.
- 2.0 PRODUCTS 2.1 TOILET AND BATH ACCESSORIES
- A. Manufacturers: One of the following:
- <u>A & J Washroom Accessories</u>, Inc.
- American Specialties, Inc.
- Bobrick Washroom Equipment, Inc Bradley Corporation.
- B. Paper Towel Dispenser PTD: (Lab and Toilets).
- Mounting: Surface. Minimum Capacity: 400 C-fold or 525 multifold towels.

2. Mounting: Surface mounted with concealed anchorage.

3. Material: Satin-finish aluminum bracket with plastic spindle.

4. Operation: Noncontrol delivery with standard spindle.

5. Capacity: Designed for 5 1/4" diameter-core tissue rolls.

- 3. Material: Stainless Steel, No. 4 finish (satin).
- 4. Lockset: Tumbler type. 5. Refill Indicators: Pierced slots at sides or front.
- . Toilet Tissue Dispenser TPD:

1. Type: Single-roll dispenser w/ one in reserve.

D. Liguid-Soap Dispenser - Soap:
1. Mounting: Surface.
2. Capacity: 40 fl. oz.
3. Materials: Stainless steel, satin finish.
4 Stainless-Steel Soan Valve: Designed for dispensing soan in liquid form
5 Lockset: Tumbler type for top filling
6 Refill Indicator: Window type
E Grab Bar CB - XX
L. Orab Dal OD - AA
2. Mountaing. Concealed.
3. Gripping Surraces: Smoon, saun inish.
4. Outside Diameter: 1-1/4 inches (32 mm) for medium-duty application
F. Underlavatory Guard - IPW:
1. Description: Insulating pipe coverings for supply and drain piping assemblies, which prevent direct contact with and burns from piping, and allow service access without
removing coverings.
2. Material and Finish: Antimicrobial, molded plastic, white.
G. Other/Miscellanaous Items:
1. Description: Provide allowance for Owner selected accessories with high-end finish in public toilet.
2.2 MATERIALS
A. Aluminum: ASTM B 221 (ASTM B 221M), Alloy 6063-T6 or 6463-T6.
B. Galvanized-Steel Sheet: ASTM A 653/A 653M, G60 (Z180).
C. Chromium Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
D. Baked-Enamel Finish: Factory-applied, gloss-white, baked-acrylic-enamel coating
E. Galvanized-Steel Mounting Devices: ASTM A 153/A 153M. hot-dip galvanized after fabrication.
F. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.
G. Keys: Provide universal keys for internal access to accessories for servicing and re-supplying. Provide minimum of six keys to Owner's representative.
3.0 EXECUTION
A Install accessories using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level inlumb and firmly anchored in locations
and at bainties indicated
and a neights indicated.
<ol> <li>Install grad bars to withstall a downward load of at reast 200 bit (112 N), when tested according to mentod in ASTM1 440.</li> <li>B. Adjust assessing for upproximation and exactly provide an exactly approximation property. Deploy dragged or defective items. Personal competency lobels and</li> </ol>
b. Adjust accessibles for unencumbered, smooth operation and verify that mechanisms function property. Replace damaged of delective terms. Remove temporary labels and
protective coalings.
3 SECTION 104400 - FIRE FROTECTION SPECIAL FIES
A. Submittais: Product Data.
2.1 FIRE EX INGUISHERS AND BRACKE IS
A. Portable Fire Extinguishers: NFPA 10, listed and labeled for the type, rating, and classification of extinguisher.
1. Manufacturers: One of the following:
a. <u>Amerex Corporation.</u>
b. <u>J.L. Industries, Inc.</u> ; a division of Activar Construction Products Group.
c. <u>Kidde Residential and Commercial Division</u> ; Subsidiary of Kidde PLC.
d. Larsen's Manufacturing Company.
2. Multipurpose Dry-Chemical Type: UL-rated 2-A:10-B:C, 5 lb nominal capacity, in enameled-steel container.
B. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of size required for fire extinguishers indicated, with plated or
baked-enamel finish.
3.1 INSTALLATION
A. Install Mounting brackets in locations indicated at 54 inches above finished floor to top of fire extinguisher or heights acceptable to authorities having jurisdiction.
B. Install fire extinguishers in mounting brackets where indicated.
SECTION 105300 - MAPES SUPER LUMIDECK FLAT OUTRIGGER SUPPORTED AWNING
1.0 GENERAL
1.1 DESCRIPTION OF WORK
E. Work in this section includes furnishing and installation of extruded aluminum overhead outrigger style canopies as manufactured by Mapes Canopies LLC.
F. Related Items and Considerations:

Flashing of various designs may be required. Generic flashing supplied by Mapes. Specialty flashing to be supplied by installer.

. Determine wall construction, make-up and thickness.

Ensure adequate wall condition to carry canopy loads where required. 4. Consider water drainage away from canopy where necessary.

5. Any necessary removal or relocation of existing structures, obstructions or materials.

1.2 QUALITY ASSURANCE

A. Products meeting these specifications established standard of quality required as manufactured by Mapes Industries, Inc. Lincoln, NE 1-888-273-1132.

1.3 FIELD MEASUREMENT A. Confirm dimensions prior to preparation of shop drawings when possible.

B. If requested, supply manufacturer's standard literature and specifications for canopies.

2. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

1.4 PERFORMANCE REQUIREMENTS

A. Canopy must conform to local building codes.

B. Professional Engineer-stamped calculations are required. 1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver and store all canopy components in protected areas.

2.0 PRODUCTS

2.1 MANUFACTURER A. <u>Mapes Canopies LLC</u>, 7748 North 56th St., Lincoln, NE 68514, Phone: 1-888-273-1132, Fax: 1-877-455-6572.

2.2 MATERIALS

A. Decking shall consist of 3" extruded flat soffit .078 decking.

B. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown in current Mapes brochures.

C. Outriggers and attachment hardware shall be powder coated.

D. Fascia shall be standard 8" extruded G style. 2.3 FINISHES

A. Finish type shall be 2-Coat Kynar Finish.

2.4 FABRICATION

A. All Mapes canopies are shipped in preassembled sections for ease of installation.

B. All connections shall be mechanically assembled utilizing 3/16 fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable. C. Decking shall be designed with interlocking roll-formed aluminum members.

D. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to Front Scupper.

3.0 EXECUTION 3.1 INSPECTION

A. Confirm that surrounding area is ready for the canopy installation.

B. Installer shall confirm dimensions and elevations to be as shown on drawings provided by Mapes Industries. C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed.

3.2 INSTALLATION

A. Installation shall be in strict accordance with manufacturers shop drawings. Particular attention should be given to protecting the finish during handling and erection.

3.3 CLEANING

A. After installation, entire system shall be left in a clean condition.

SECTION 123623 - PLASTIC COUNTERTOPS

1.0 GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Shop Drawings, Samples showing the full range of colors, textures, and pattern available for each type of finish and AWI Quality Certification Program certificates.

B. Fabricator Qualifications: Certified participant in AWI's Quality Certification Program.

C. Installer Qualifications: Fabricator of products. D. Environmental Limitations: Do not deliver or install countertops until building is enclosed, wet work is completed, and HVAC system is operating.

2.0 PRODUCTS 2.1 PLASTIC-LAMINATE COUNTERTOPS

A. Quality Standard: AWI, AWMAC, and WI's "Architectural Woodwork Standards."

B. Plastic-Laminate Countertops: Premium or Custom grade.

Laminate Grade: HGS for flat countertops, HGP for post-formed countertops

Grain Direction: Parallel to cabinet fronts.

B. Edge Treatment: Same as laminate cladding on horizontal surfaces.

2.2 MATERIALS A. Wood Moisture Content: 5 to 10 percent.

B. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.

. Particleboard: ANSI A208.1, Grade M-2, made with binder containing no urea formaldehyde.

. Softwood Plywood: DOC PS 1. E. High-Presure Decorative Laminate: NEMA LD 3.

. Manufacturers:

a. <u>Wilsonart International</u>; Div. of Premark International, Inc. b. or Approved equal.

F. Grommets for Cable Passage through Countertops: 2 inch O.D., molded-plastic grommets and matching plastic caps with slot for wire passage.

a. <u>Doug Mockett & Company, Inc</u>. - OG or SG series. 3.0 EXECUTION

3.1. FABRICATION

A. Complete fabrication to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

3.2 INSTALLATION

A. Before installation, condition countertops to average prevailing humidity condition in installation areas.

B. Install countertops to comply with referenced quality standard for grade specified. . Install countertops level, plumb, true and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.

D. Scribe and cut countertops to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts. E. Anchor countertops securely to base units. Seal space between backsplash and wall.

SECTION 123640 - STONE COUNTERTOPS

1.0 GENERAL 1.1 SECTION REQUIREMENTS

A. Submittals: Shop Drawings and Stone Samples at least 12 inches (300 mm) square. B. Verify dimensions of stone countertops by field measurements and indicate on Shop Drawings.

2.0 PRODUCTS

2.1 STONE

A. Granite: ASTM C 615 . Description: Uniform, fine-grained, stone.

2. Varieties and Sources: Product per drawings. 3. Finish: Polished.

A. Water-Cleanable Epoxy Adhesive: ANSI A118.3.

b. Bonstone Materials Corporation.

2.2 SETTING MATERIALS

a. Bonsal, W.R. Company.

d. Custom Building Products.

MAPEI Corp.

a. Bostik Findley Inc.

<u>Hillyard, Inc.</u>

corners slightly eased.

E. Cutouts and Holes:

3.0 EXECUTION

3.2 CLEANING

3.1 INSTALLATION

b. Custom Building Product

HMK Stone Care System.

Miracle Sealants Company.

2.3 COUNTERTOP FABRICATION

Stone Care International, Inc.

Laticrete International, Inc.

C-Cure.

1. Manufacturers: One of the following:

B. Sealant: Mildew-resistant, neutral-curing, silicone sealant. C. Stone Sealer: Colorless, stain-resistant sealer that does not affect color or physical properties of stone surfaces, as recommended by stone producer for application indicated. 1. Manufacturers: One of the following:

A. Comply with recommendations in MIA's "Dimensional Stone - Design Manual VI."

Thickness: 1-1/4 inches (30 mm). . Edge Detail: Straight, slightly eased at top, 1-1/4 inch (30 mm) bullnose, or 3/8 inch (10 mm) radius with 2-1/2 inch apron, location vary per plan. B. Splashes: 3/4 inch (20 mm) nominal thickness backsplashes and end splashes.

Height: 4 inches, unless noted otherwise. Top-Edge Detail: Straight, slightly eased at corner.

F. Apply sealant to seams and to gap between countertops and splashes.

C. Fabricate molded edges with machines having abrasive shaping wheels made to reverse contour of edge profile. Form corners of molded edges as indicated with outside

D. Seams: Fabricate countertops without seams, preferred, but for joining in field, with seams 1/16 (1.5 mm) in width.

1. Undercounter Fixtures: Make cutouts for undercounter fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves. a. Edge Detail: Vertical, slightly eased at top and bottom surfaces and projecting 3/16 inch (5 mm) into fixture opening. 2. Counter-Mounted Fixtures: Prepare countertops in shop for field cutting openings for counter-mounted fixtures. Mark tops for cutouts and drill holes at corners of cutout

locations. Make corner holes of largest radius practical. 3. Fittings: Drill countertops in ship for plumbing fittings, undercounter soap dispensers, and similar items.

A. Install countertops over plywood subtops with a full spread of water-cleanable epoxy adhesive.

B. Space seams with 1/16 inch (1.5 mm) gap for filling with grout sealant. Use temporary shims to ensure uniform spacing and use clamps to eliminate lipping. C. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts while cutting.

D. Install backsplash and end splashes by adhering to wall with water-cleanable epoxy adhesive. Leave 1/16 inch (1.5 mm) gap between countertop and splash for filling with sealant. Use temporary shims to ensure uniform spacing. E. Grout seams to comply with ANSI A108.10. Tool grout uniformly and smoothly with plastic tool.

A. Clean countertops as work progresses. Remove adhesive, grout, mortar, and sealant smears immediately.

B. Clean stone countertops not less than six days after completion of sealant installation, using clean water and soft rags. Do not use materials or methods that could damage stone. Apply stone sealer to comply with stone producer's and sealer manufacturer's written instructions.

	<b>SPECIFICATIONS</b>	HEARTLAND DENTAL	WINTER GARDEN	AVALON & MARSH RD	WINTER GARDEN, FL 34787
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