orcutt winslow

Project No. 2022_110

Midlothian ISD Baxter ES Kitchen Upgrades

ADDENDUM NO. 1

March 9, 2023

<u>GENERAL</u>: The following changes, additions or deletions for the above project shall be made to the Contract Documents; all other Conditions shall remain the same. Note: the additions, deletions or changes listed in this Addendum may affect more than the specific instance(s) mentioned. Coordination may be necessary to fully revise cases of duplicate information. The Addendum supersedes current conditions shown. Acknowledge receipt of this Addendum. This addendum forms a part of the Contract Documents and modifies them as follows:

NOTICE

Addendum No. 2 will be issued March 20, 2023 and will include additional bidder questions.

BIDDER'S QUESTIONS/CLARIFICATIONS

1. Will the fire protection need to be replaced or updated for the HVAC Hood area?

Currently there are not provisions for revising the hood or hood fire suppression system.

2. Who is the make and model of the existing Fire Alarm Panel & System?

The existing fire alarm manufacturers is Fire Lite. The specific fire alarm control panel model should be field verified by the fire alarm contractor.

3. Please confirm Fire Alarm scope to support, remove and reinstall devices?

Fire alarm scope was shown on construction documents. Please refer to the drawings.

4. Please confirm Fire Sprinkler scope to support, remove and reinstall devices?

Contractor shall rework the existing wet sprinkle system as required in order to accommodate areas of renovation and/or areas required by Local AHJ to be covered by the sprinkler system. This shall include but is not limited to the upsizing, reworking and extension of the fire main, sprinkler mains, cross mains and branch lines. The Sub-Contractor shall coordinate the removal and replacement of any existing ceiling affected by the sprinkler system rework with the General Contractor. Where existing systems are modified, the contractor shall match the existing sprinkler head types and provide escutcheons for all new and existing sprinkler heads as needed.

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5. Will all the revised electrical outlets be required to have GFCI protection?

Yes, all kitchen receptacles are required by Code to be GFCI protected.

DRAWINGS

- A1.: Sheet G-001 Title Sheet: REPLACE in its entirety with the attached, dated 03/09/23
- A2: Sheet G-002 Wall Types/Project Information: REPLACE in its entirety with the attached, dated 03/09/23.
- A3: Sheet A-101 First Floor Plan: REPLACE in its entirety with the attached, dated 03/09/23.
- A4: Sheet A-103 First Floor RCP: REPLACE in its entirety with the attached, dated 03/09/23.
- A5: Sheet A-601 Door Sched/Elev: REPLACE in its entirety with the attached, 03/09/23.
- A6: Sheet A-701 Floor Finish Plan: REPLACE in its entirety with the attached. 03/09/23
- A7: Sheet A-703 Door Hardware Specifications: REPLACE in its entirety with the attached, 03/09/23.

ATTACHMENTS:

G-001, Title Sheet, dated 03/09/23 G-002, Wall Types/Project Information, dated 03/09/23 A-101, First Floor Plan, dated 03/09/23 A-103 First Floor RCP, dated 03/09/23 A-601 Door Sched/Elev, dated 03/09/23 A701 Floor Finish Plan, dated 03/09/23 A703 Door Hardware Specifications, dated 03/09/23



2929 n central ave eleventh floor phoenix az 85012 602 257 1764 t

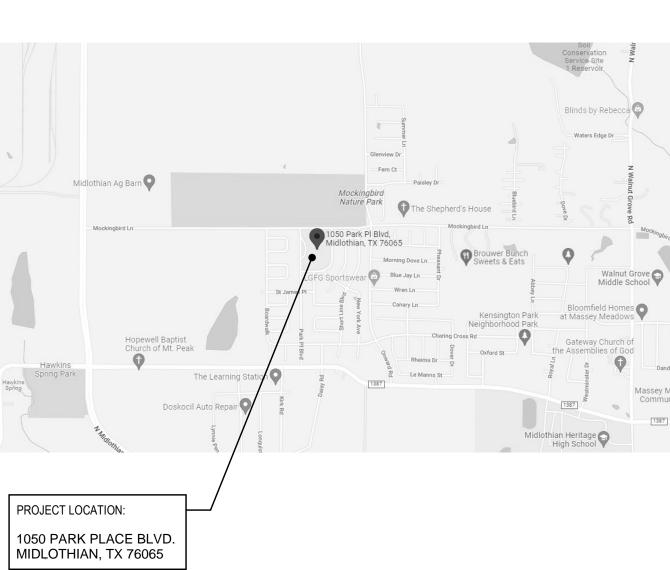
602 257 9029 f

T E BAXTER ELEMENTARY SCHOOL KITCHEN EQUIPMENT REPLACMENT

CONSULTANT INFO

MEP - RWB CONSULTING ENGINEERS 12001 N. Central Expressway, Suite 1100 DALLAS, TX 75243 Nathan Hart nhart@rwb.net Office: (972) 788-4222 Fax: (972) 788-0002

VICINITY MAP



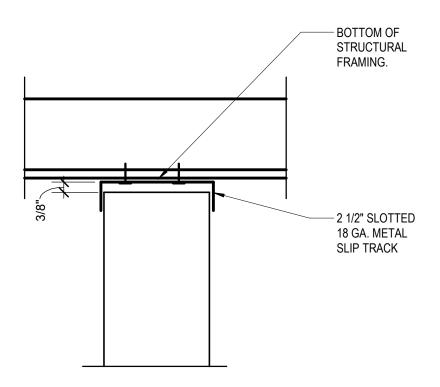
SHEET INDEX

	genera	al			
^	SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
<u>_1</u> {	G-001 G-002	TITLE SHEET WALL TYPES/PROJECT INFORMATION	03/09/2023 03/09/2023		03-09-2023 03-09-2023)
	archite	ectural			
	SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
	AD101 -A-101 A-103 A-601 -A-701 -A-702 A-703	DEMOLITION PLANS FIRST FLOOR PLAN FIRST FLOOR RCP DOOR SCHED./ELEV. FLOOR FINISH PLAN SPECIFICATIONS DOOR HARDWARE SPCIFICATIONS	03/09/2023 03/09/2023 03/09/2023 03/09/2023 03/09/2023 03/09/2023 03/09/2023		03-09-2023 03-09-2023 03-09-2023 03-09-2023 03-09-2023 03-09-2023

mechan	ical			
SHEET # DI	ESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
M001 SPECIFICATIONS - MECHANICAL M100 FLOOR PLAN - LEVEL 1 - KITCHEN - HVAC			23 23	
plumbing	g			
SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
P000 P100	PLUMBING SPECIFICATIONS, LEGENDS & NOTES FLOOR PLAN - LEVEL 1 - PLUMBING	03/09/20 03/09/20		
electrica	I			
SHEET # DI	ESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
E000 E001 E100 E200 E600 E700	ELECTRICAL NOTES & LEGENDS SPECIFICATIONS ELECTRICAL FLOOR PLAN - LEVEL 1 - ELECTRICAL FLOOR PLAN - LEVEL 1 - LIGHTING ELETRICAL DETAILS LIGHT FIXTURE & PANEL SCHEDULES	03/09/20 03/09/20 03/09/20 03/09/20 03/09/20 03/09/20	23 23 23 23 23	

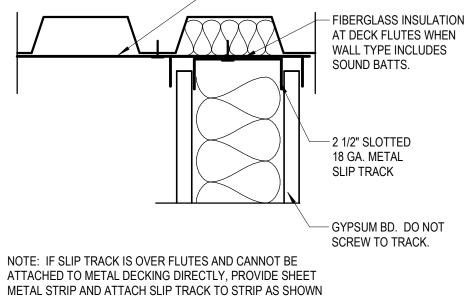






TOP OF WALL @ STRUCT FRAME

CONDITION 2

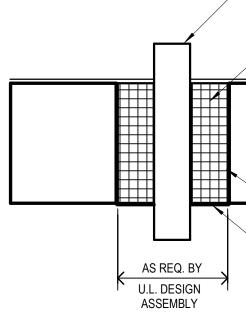


CONDITION 1

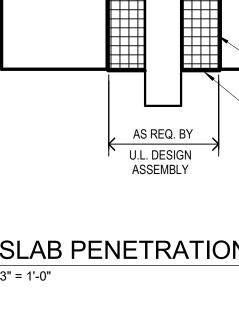
WALL & PARTITION GENERAL NOTES

- above.
- strapping, UNO.
- H. All light gauge metal framing shall be installed in strict accordance with ASTM
- except at fire rating stamp typical.

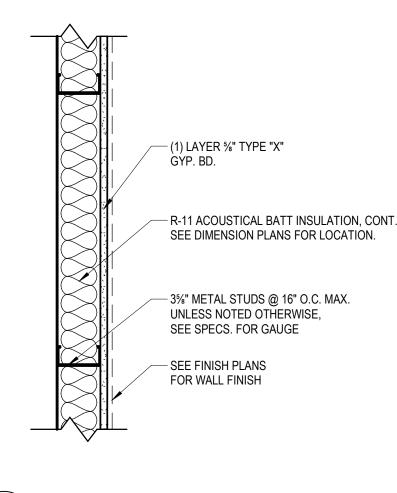
NOTE: FIELD VERIFY CORE AREA DOES NOT CONTAIN STEEL REINFORCING BARS (X-RAY OR AS REG.)



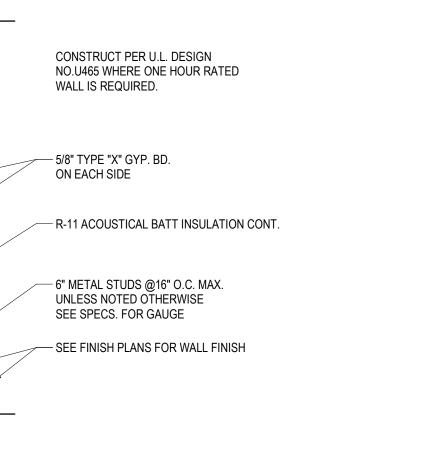
4 SLAB PENETRATION



3" = 1'-0"



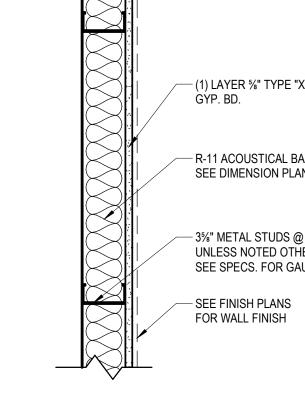




3 S-01 WALL PARTITION

WALL CONDITIONS DIAGRAM

1/4" = 1'-0"





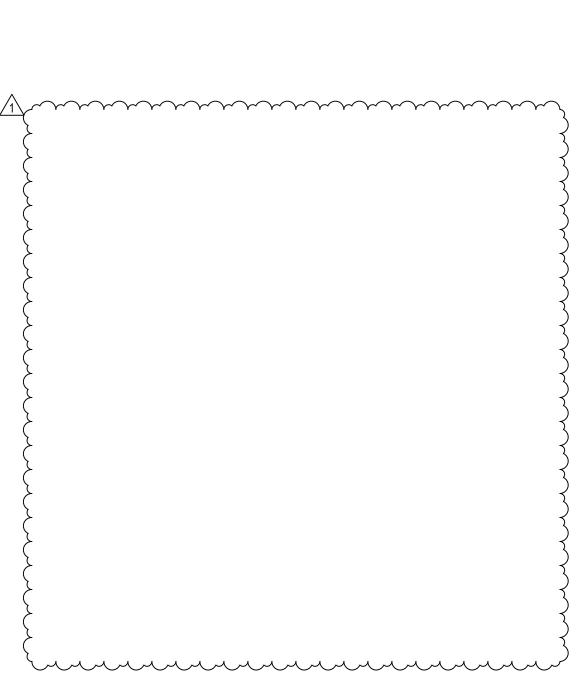


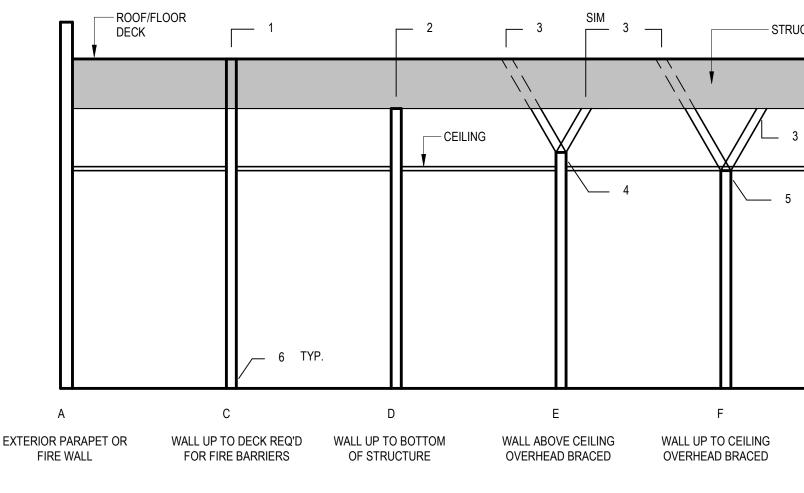


– 18 GA. SHEET METAL STRIP

CONT. ACROSS FLUTES IF

REQ'D. SEE NOTE BELOW





A. All fire rated walls shall be completely and continuously constructed first, and then other non-rated walls constructed to the finished surface.

B. All fire rated walls extend full height to structure above and seal to deck, UNO. See Fire Rated Details for approved joint conditions.

C. All penetrations at smoke and fire rated assemblies shall be protected, sealed, and dampered, using only UL or ICC-ES approved methods, materials and installation, as required to maintain the assembly's rating and smoke resistance. All materials and installation details shall conform to the UL listings for "through penetration fire stop systems" where applicable. The Contractor shall submit shop drawing details, furnished by the manufacturer of the fire stop material, that show complete conformance to the UL Listing, and such drawings shall be available to the Fire or Building Inspectors onsite. The drawings shall be specific for each penetration type.

D. Smoke separation walls shall form an effective membrane, continuous from outside wall to outside wall, from fire barrier to fire barrier, from smoke barrier to smoke barrier and from floor slab to floor or roof slab above, thereby providing continuity through all concealed spaces. The Contractor shall completely seal all openings where the smoke barrier abuts other smoke barriers, fire barriers, exterior walls, the floor below and the floor or ceiling

E. All backing support for wall mounted items shall be 16 gauge min. metal

F. Brace interior non-bearing walls to structure per Architectural Drawings.

G. Slotted slip track shall be used at all top of full-height wall conditions subject to loading by deflection of the structure above.

754 "Standard Specifications for Installation of Steel Framing Members".

I. At IDF and MDF rooms, provide 8' high fire rated plywood panels continuous at all walls as required to mount special system equipment. Paint plywood

U.L. RATED SEALANT TO MATCH THE FIRE RESISTANCE OF THE PENETRATED ASSEMBLY

- LOOSE ALUMINA SILICA FIBER DAMMING AS

FLOOR SLAB

REQUIRED

- STRUCTURAL FRAMING

_____ 3 SIM EXTERIOR WALL UP TO ROOF

GENERAL NOTES

otherwise.

- A. Do not scale drawings. Rely only on Architect's written dimensions. B. Typical details may not be necessarily be cut on plans, but apply unless noted
- C. All work and material shall be regarded as new unless specifically indicated as
- "existing" or "(e)" on the drawings and/or within the specifications. D. Contractor shall coordinate all trades and methods of construction as required
- for completion of the project with the intent of these documents. E. All materials and unfinished surfaces exposed to view shall be painted unless
- factory prefinished, noted otherwise, or directed by the Architect. F. No utilities, plumbing, piping, conduit, etc. shall be exposed without the written
- approval of the Architect. G. Should dimensions be missing or conflicting, notify the Architect prior to
- proceeding with related work.
- H. Contractor shall verify locations of utilities prior to excavating, trenching, etc. and shall repair or replace utilities damaged as a result of construction. I. Contractor shall be responsible for all temporary shoring and bracing required
- during construction.
- J. Security and safety are the Contractor's responsibility. Site shall be completely fenced and secured during construction.
- K. No asbestos shall be used or incorporated into the project in any form.
- L. Separate dissimilar metals as they occur and/or per manufacturer's recommendations.
- M. Apply sealant at intersections of all dissimilar materials.
- N. Contractor shall furnish and install an Orcutt | Winslow job site sign or banner per Section 150000 in a prominent location as directed by the Architect.

ABBREVIATIONS LIST

Air Conditioning/Conditioner

A/C

AS DESCRIBED THE US NATIONAL CAD STANDARDS MODULE 4 TERMS AND ABBREVIATIONS, INCLUDING THE FOLLOWING: MAX Maximum

AB ABC ACT AFF ALT ALUM	Anchor Bolt Aggregate Base Course Acoustical Ceiling Tile Above Finish Floor Alternate Aluminum	MECH MFR MO MIN MISC MTL.	Mechanical Manufacturer Masonry Opening Minimum Miscellaneous Metal
BRG BM BUR	Bearing Beam Built up roof	NIC NTS	Not In Contract Not To Scale
CI CJ CL CLG	Cast Iron Control Joint Center Line Ceiling	OC OD OPP ORD	On Center Outside Diameter Opposite Overflow Roof Drain
CLR CMU CO COL CONC CONT	Clear Concrete Masonry Unit Clean Out Column Concrete Continue	PL PLAM PLMB PLYWD PWR	Property Line Plastic Laminate Plumbing Plywood Power
CPT CT	Carpet Ceramic Tile	RD RO	Roof Drain Rough Opening
DF DIA DIM DS DWG	Drinking Fountain Diameter Dimension Downspout Drawing	S/S SCHED SF SHT SIM	Stainless Steel Schedule Square Foot Sheet Similar
ELEC EJ EL EQ EXIST EXT	Electric Expansion Joint Elevation Equal Existing Exterior	SPEC SQ SS STD STRUCT SUSP	Specifications Square Sanitary Sewer Standard Structural Suspended
FD FDC FEC FIN FLR FIN GR FIN FLR GA	Floor Drain Fire Department Connection Fire Extinguisher Cabinet Finished Floor Finished Grade Finish Floor Gage	T&G TEMP TMPD TOB TOC TOJ TOM TOS TOW TYP	Tongue and Groove Temporary Tempered Top of Beam Top of Curb/Concrete Top of Joist Top of Masonry Top of Steel Top of Wall Typical
GAL GLU LAM GYP	Galvanized I Glue Laminated Wood Gypsum	UGNG UNO	Underground Unless Noted Otherwise
HB	Gypsum Board Hose Bibb	VCT VERT	Vinyl Composition Tile Vertical
HM HORIZ HVAC	Hollow Metal Horizontal Heating/Ventilating/Air Conditioning	WC WD WH	Water Closet Wood Water Heater
ID INFO INT	Inside Diameter Information Interior	WWF	Welded Wire Fabric
LAV LLH LLG LVR	Lavatory Long Leg Horizontal Long Leg Vertical Louver		

DEFERRED SUBMITTALS

Per IBC 107.3.4.1 DEFERRED SUBMITTALS Documents for Deferred Submittal items shall be submitted to the Registered Design Professional in Responsible Charge, who shall review and forward them to the Building Official with a notation indicating that the Deferred Submittal Documents have been reviewed and been found to be in general conformance to the design of the building. The Deferred Submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.

FIRE PROTECTION Fire Protection systems to be approved by [Enter AHJ] Fire Department and Development Services Department.

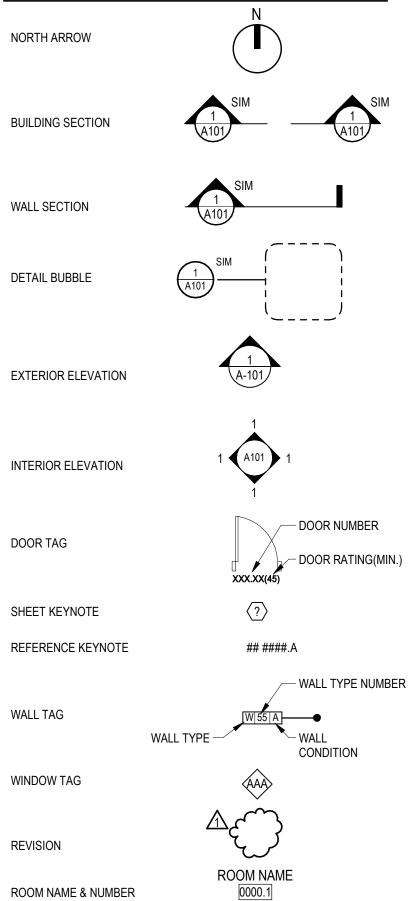
Fire Alarm System Provide shop drawings, separate permit submittal, and permit fees for the fire alarm system modifications in the building. Agency review and separate additional permit may be required prior to starting any work on the fire alarm system.

Fire Sprinkler System Provide shop drawings, flow testing, separate permit submittal, and permit fees for the fire sprinkler system modifications in the building per NFPA-13. Provide one copy of permitted drawings to Architect. A separate additional Permit may be required prior to starting any work on the fire sprinkler system.

STRUCTURAL

Submit Shop Drawings per Section 13300 for review by the Structural Engineer. Open-Web Steel Joists per Structural Drawings

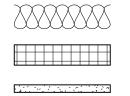
TYPICAL SYMBOLS LEGEND



MATERIALS LEGEND

NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN

OR SECTION, UNLESS NOTED OTHERWISE ABOVE.					
EARTH					
GRANULAR FILL					
SAND, GROUT AS NOTED					
CAST-IN-PLACE CONCRETE					
PRECAST CONCRETE, CAST STONE					
CONCRETE MASONRY UNIT					
BRICK MASONRY					
STONE: LIMESTONE, GRANITE, MARBLE OR AS NOTED					
TERRA COTTA, STRUCTURAL CLAY TILE					
METAL: TYPE AS NOTED					
METAL: ROLLED SHAPES					
FINISHED WOOD SHOWN CUT AND ELEVATION					
ENGINEERED WOOD: GLUE LAMINATED					
WOOD FLOOR, WOOD SHINGLES, OR SIDING					
PARTICLEBOARD					
PLYWOOD					
GLASS FIBER REINFORCED CONCRETE SIDING OR TRIM					
EIFS					
SPRAYED FIREPROOFING SHOWN ON ROLLED SHAPE					
BATT INSULATION: THERMAL OR ACOUSTICAL, UNO					



SHEATHING: GYPSUM, OR AS NOTED

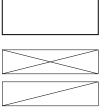
WOOD SHIM

RIGID INSULATION: THERMAL,

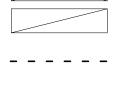
ACOUSTICAL, OR SAFING

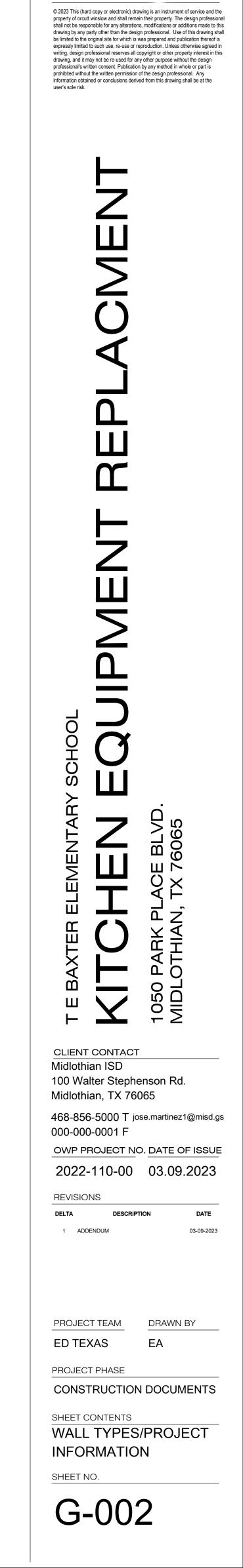
ACOUSTICAL CEILING TILE

WOOD FRAMING / BLOCKING: CONTINUOUS

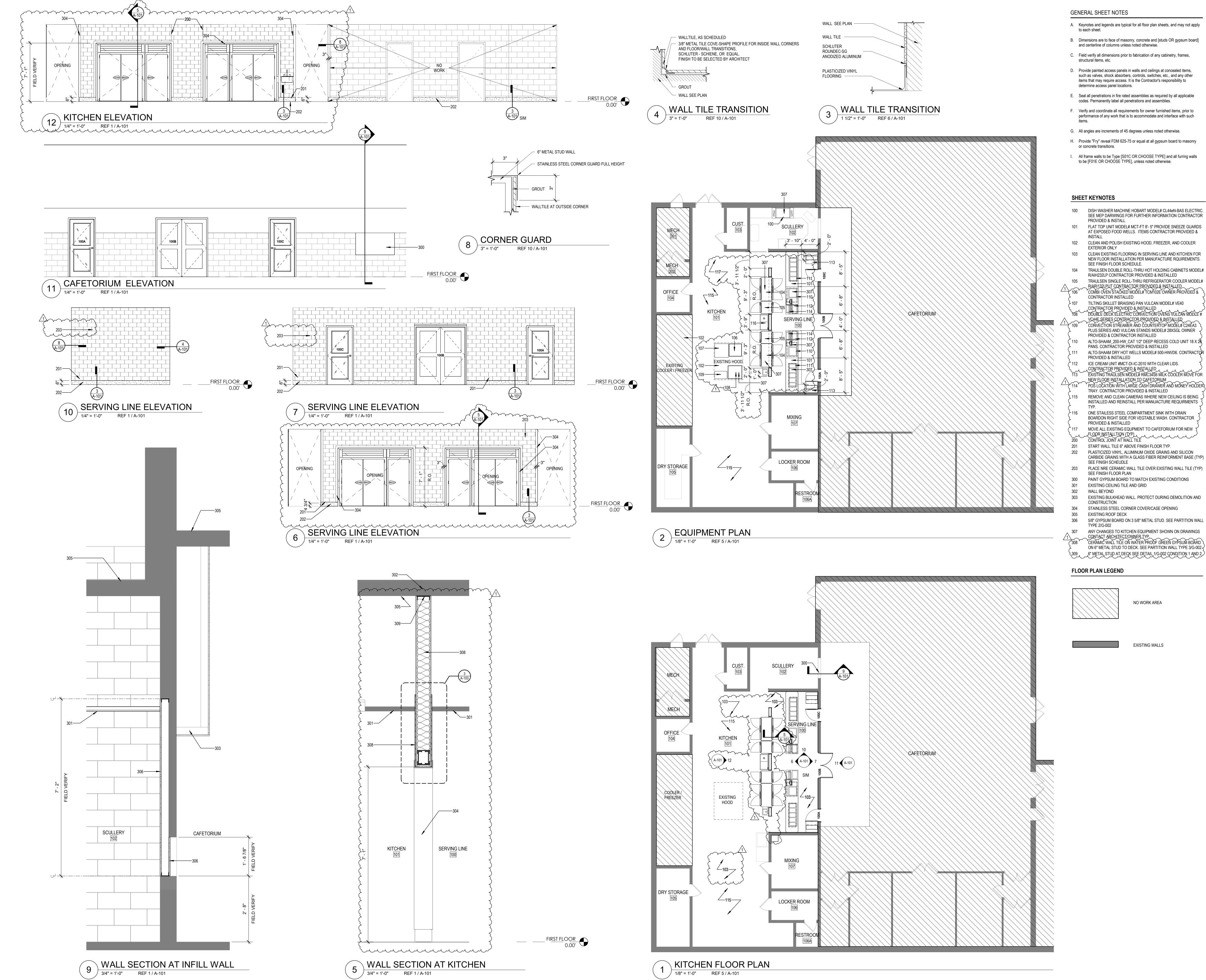


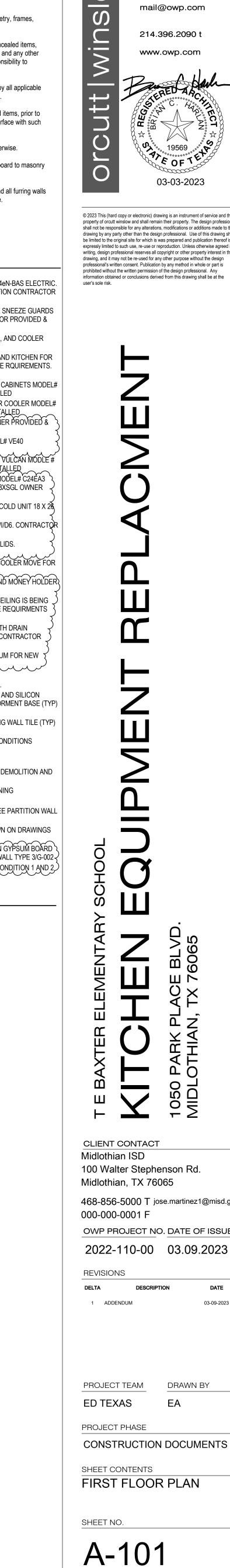
MEMBRANE: WATERPROOF, ROOF, DAMPPROOFING AIR BARRIER SYSTEM

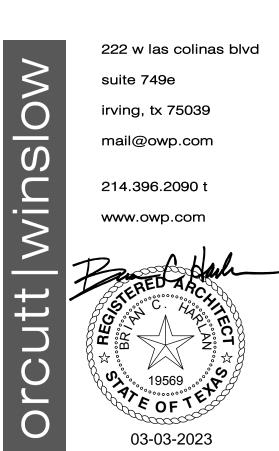




222 w las colinas blvd 2 suite 749e irving, tx 75039 S mail@owp.com 214.396.2090 t N. www.owp.com EOFT 03-03-2023





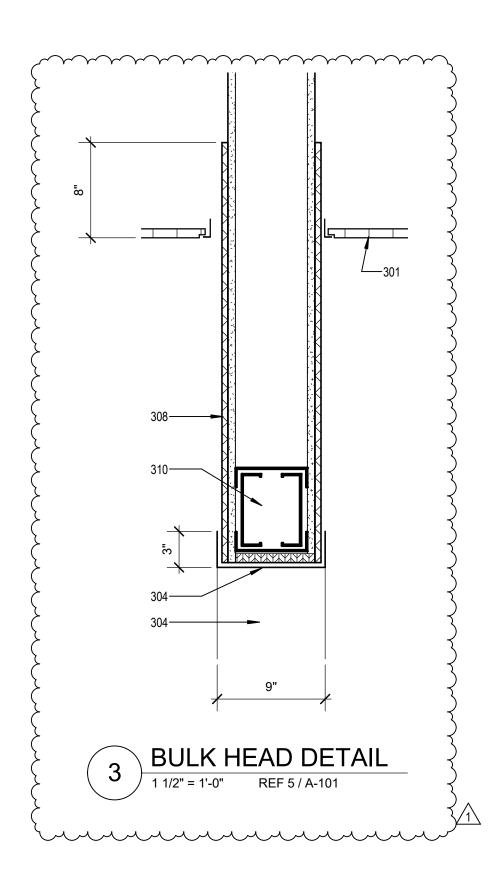


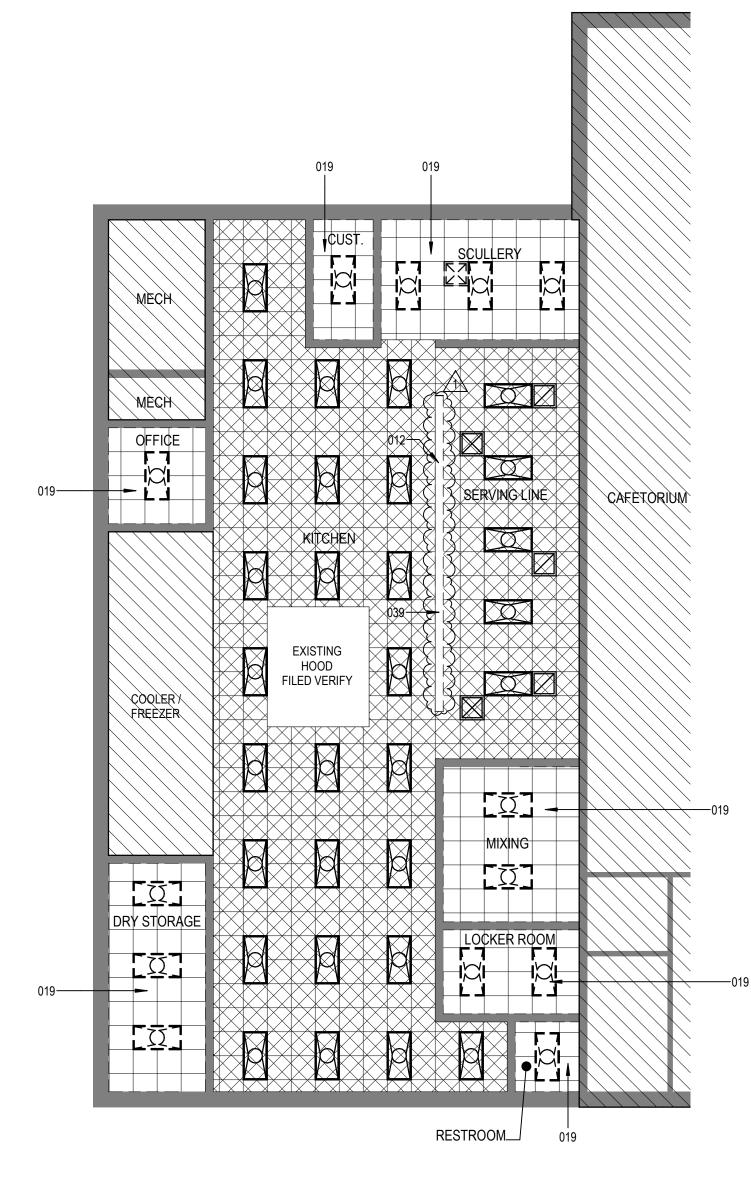
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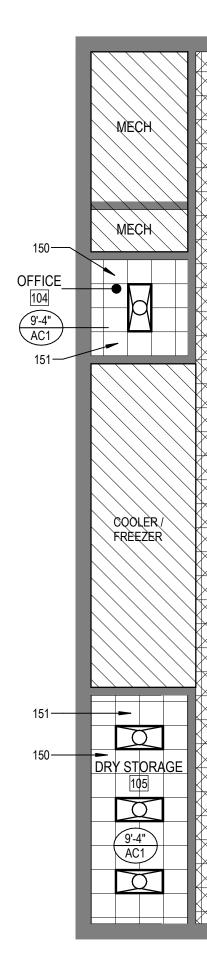


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REF 5 / A-101



GENERAL SHEET NOTES

- A. Ceilings and other suspended items shall be attached to structure by fully embedded or "shear" connection; pull out connections are not acceptable.
- B. All gypsum board ceilings shall be 5/8" type 'X' gypsum board on light
- gauge framing or suspension system.
- C. Ceiling and soffit heights noted on Reflected Ceiling Plans, are above finish
- D. Center all devices, sprinkler heads, etc. in ceiling tiles.
- E. All soffits over casework to extend 1" beyond the face of casework.
- F. Provide continuous sound batt insulation above all toilet room ceilings.
- G. Fire sprinkler contractor shall reference all drawings and specifications for determining proper coverage and sprinkler head layout/design.
- H. Reveal molding to be used at all intersections of different materials. All soffit reveals shall be a continuation of vertical wall reveals.
- I. Refer to electrical drawings for location of reused, relocated, existing or new light locations. Patch all GWB ceilings with new gypsum wall board where damaged or removed for new work. Match existing depth, finish and color of ceiling to be patched.
- J. Ceiling heights indicated in existing areas are approximate. Maximize where possible. Where ceiling grids are to extend, match existing height, direction, manufacturer, style, color and type of grid.

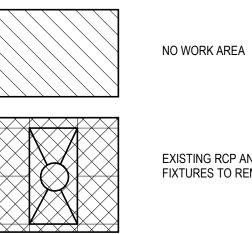
SHEET KEYNOTES

- 012 REMOVE CMU WALL FULL HEIGHT REMOVE CEILING TILE, GRID, AND LIGHT FIXTURE 019 REMOVE CMU BULKHEAD. 039 KITCHEN CEILING TILE VINYL COATED / CLEANABLE AND GRID 150 TYP. SEE SPECIFICATIONS REF. ELEC FOR SUPPLY AND RETURN AIR GRILLS TYP. 151
- EXISTING CEILING TILE AND GRID 301 304 STAINLESS STEEL CORNER COVER/CASE OPENING
- 308 CERAMIC WALL TILE ON WATER PROOF GREEN GYPSUM BOARD ON 6" METAL STUD TO DECK. SEE PARTITION WALL TYPE 3/G-002 310 6" METAL STUD BOX BEAM

REFL. CEILING LEGEND

OPEN	- EXPOSED TO STRUCTURE ABOVE
10'-0"	- HEIGHT ABOVE FINISHED FLOOR
(10'-0") AC1	- CEILING TYPE
	CEILING MOUNTED 2x4 LED
\oslash	RECESSED LED DOWNLIGHT
	1X4 LED HANG LIGHT
	SUPPLY DIFFUSER (SEE MECH.)
	RETURN DIFFUSER (SEE MECH.)
	EMERGENCY LIGHT (SEE ELEC.)
\otimes	CEILING MOUNTED EMERGENCY EXIT LIGHT (SEE ELEC.)
$\overline{\mathbf{A}}$	WALL MOUNTED EMERGENCY EXIT LIGHT (SEE ELEC.)

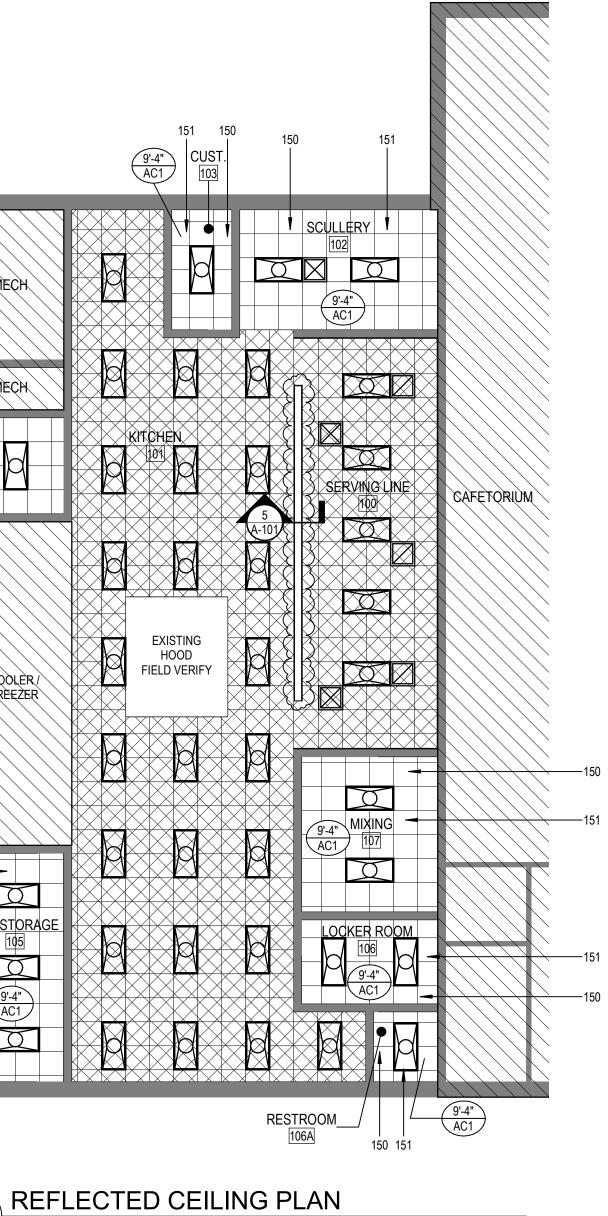
RCP LEGEND



EXISTING RCP AND LIGHT FIXTURES TO REMAIN

DEMOLITION LEGEND

EXISTING LIGHT FIXTURE TO BE REMOVED (SEE MECH.)
EXISTING GRID TO BE REMOVED
REMOVE SUPPLY DIFFUSER (SEE MECH.)
REMOVE RETURN DIFFUSER (SEE MECH.)





SHEET NO.

SHEET CONTENTS FIRST FLOOR RCP

PROJECT PHASE CONSTRUCTION DOCUMENTS

ED TEXAS

03-09-2023

PROJECT TEAM DRAWN BY

EA

Y EXIT

CH.) EC.) Ш

CLIENT CONTACT Midlothian ISD

Midlothian, TX 76065

000-000-0001 F

REVISIONS

1 ADDENDUM

DELTA

100 Walter Stephenson Rd.

468-856-5000 T jose.martinez1@misd.gs

OWP PROJECT NO. DATE OF ISSUE

2022-110-00 03.09.2023

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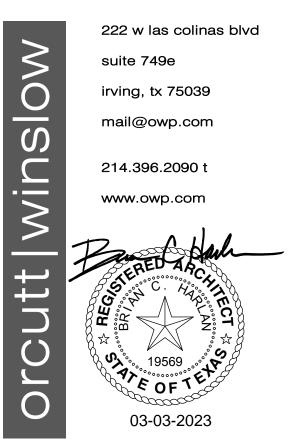
Ш

ШΝ

1050 MID

BOVE

user's sole risk.



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		[DOOR AN) FRAM	E SCHE	DULE	
Door Number X, International Material Action Control C	Midth Height	Door Rating	Glazing Type Hardware Set		Door Accessories	Function	Remarks
FIRST FLOOR							
100A 36" 84" 1 3/4" G2 AL	AA F1 AL AA		TEMP 553A		none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 553AS
100B 72" 84" 1 3/4" G2 AL	AA F2 AL AA		TEMP 553A	· ·	none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 552A
100C 36" 84" 1 3/4" G2 AL Total Doors: 3	AA F1 AL AA		TEMP 553A	S (r	none)	(none)	FIELD VERIFY DOOR FRAME JAMB SIZE. SEE DOOR HARDWARE No. 553AS
Hardware Sets: Hw Set# 552A							uuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu
QTY DESCRIPTION	CATALOG NUMBER		FINISH	MFR		3	
2 EA CONT. HINGE	112XY		628	IVE		\rightarrow	
1 EA AUTO FLUSH BOLT	FB31P/FB41P AS REQ		630	IVE		5	
1 EA DUST PROOF STRIKE	DP2		626	IVE		3	
1 EA CLASSROOM SECURIT		Ē	626	SCH		z	
2 EA FSIC CORE	23-030	Ē	626	SCH		$\left\{ \right.$	
2 EA WALL STOP	WS406/407CCV	Ē	630	IVE		$\frac{1}{2}$	
1 SET SEAL	PERIMETER SEAL BY FRAME	_				}	
-5" STILE REQUIRED						Z	
Hw Set# 553AS						$\left\{ \right\}$	
QTY DESCRIPTION	CATALOG NUMBER		FINISH	MFR		3	
1 EA CONT. HINGE	112XY		628	IVE		2	
1 EA CLASSROOM SECURIT			626	SCH		τ	
2 EA FSIC CORE	23-030		626	SCH			
1 EA OH STOP	100S SERIES X SIZE & MTG AS REQ					3	
1 SET SEAL	PERIMETER SEAL BY FRAME MFR					$\left\{ \right\}$	
-5" STILE REQUIRED						\prec	

GENERAL SHEET NOTES

- A. Fire Protection Glazing Glazing in Fire Window assemblies shall be fire protection rated in accordance with the requirements of IBC section 715.
- B. Safety Glazing All glazing at hazardous locations subject to human impact loads shall comply with IBC section 2406.
- C. Refer to Accessible Details for plumbing fixtures and accessories

DOOR GLASS TYPE

MR MIRROR

FRG FIRE RATED GLASS

PC POLYCARBONATE

TG TEMPERED GLASS

ES ELECTRIC STRIKE

DOOR ACCESSORIES

EH

HO

KP

RATING

HARDWARE

LSG LAMINATED SAFETY GLASS

AO AUTOMATIC / LOW ENERGY OPERATOR

ELECTRIFIED HARDWARE LOCKSET

20, 45, 60 ASSEMBLY RATING IN MINUTES

H-# HARDWARE SET NUMBER PER SECTION 087100 ‡

CR CARD READER CONTROLLER

MAGNETIC HOLD OPEN

KEY PAD CONTROLLER

PB PUSH BUTTON CONTROLLER

PS POSITION INDICATOR SWITCH

DOOR PANEL MATERIAL AL ALUMINUM

HC	HOLLOW CORE WOOD
HM	HOLLOW METAL
SC	SOLID CORE WOOD
STD	MANUFACTURER'S STANDARD

OTHER, SEE SPECS ZO DOOR PANEL FINISH

installation.

ANODIZED ALUMINUM AA PLASTIC LAMINATE PL PAINTED METAL PM MANUFACTURER'S STANDARD STD WOOD VENEER - PAINTED WP WOOD VENEER - PREFINISHED WV OTHER, SEE SPECS. ZO

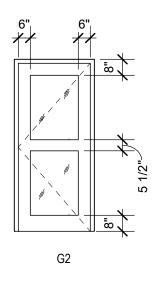
DOOR FRAME MATERIAL

AL HM KD MFR WD	ALUMINUM WELDED HOLLOW METAL KNOCK DOWN FRAME FRAME BY MANUFACTURER WOOD
WD	WOOD

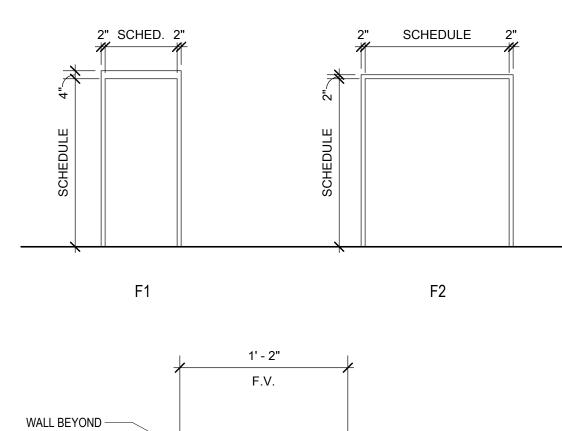
DOOR FRAME FINISH

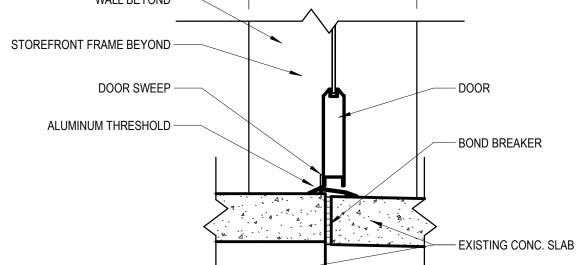
- AA ANODIZED ALUMINUM
- PLASTIC LAMINATE PL PM PAINTED METAL
- STD MANUFACTURER'S STANDARD
- WP WOOD VENEER PAINTED
- WV WOOD VENEER PREFINISHED ZO OTHER, SEE SPECS

DOOR TYPE LEGEND1



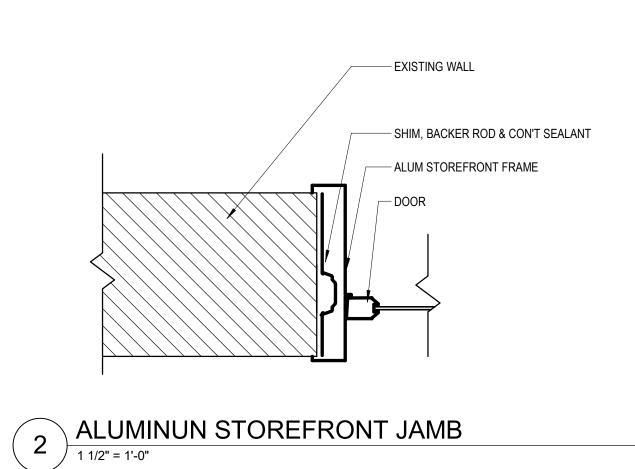
DOOR FRAME TYPES1

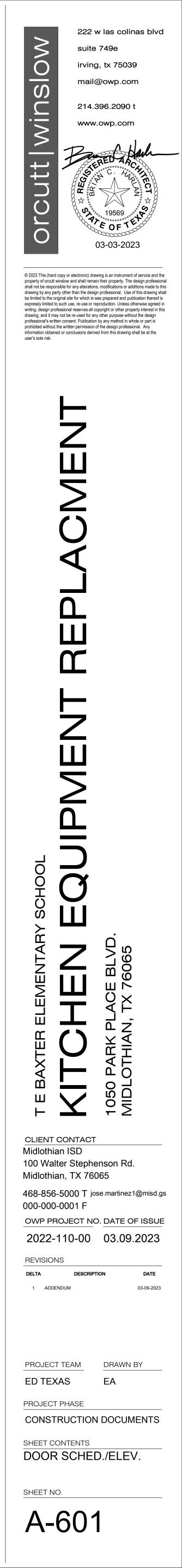




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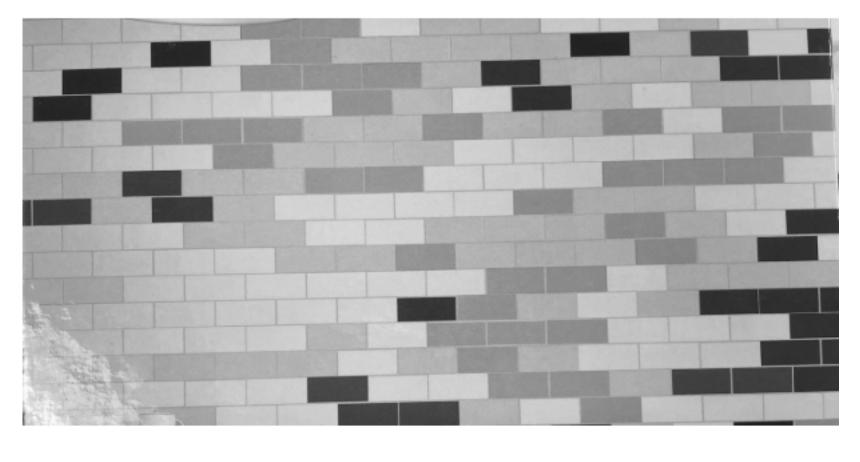
ALUMINUN STOREFRONT THRESHOLD

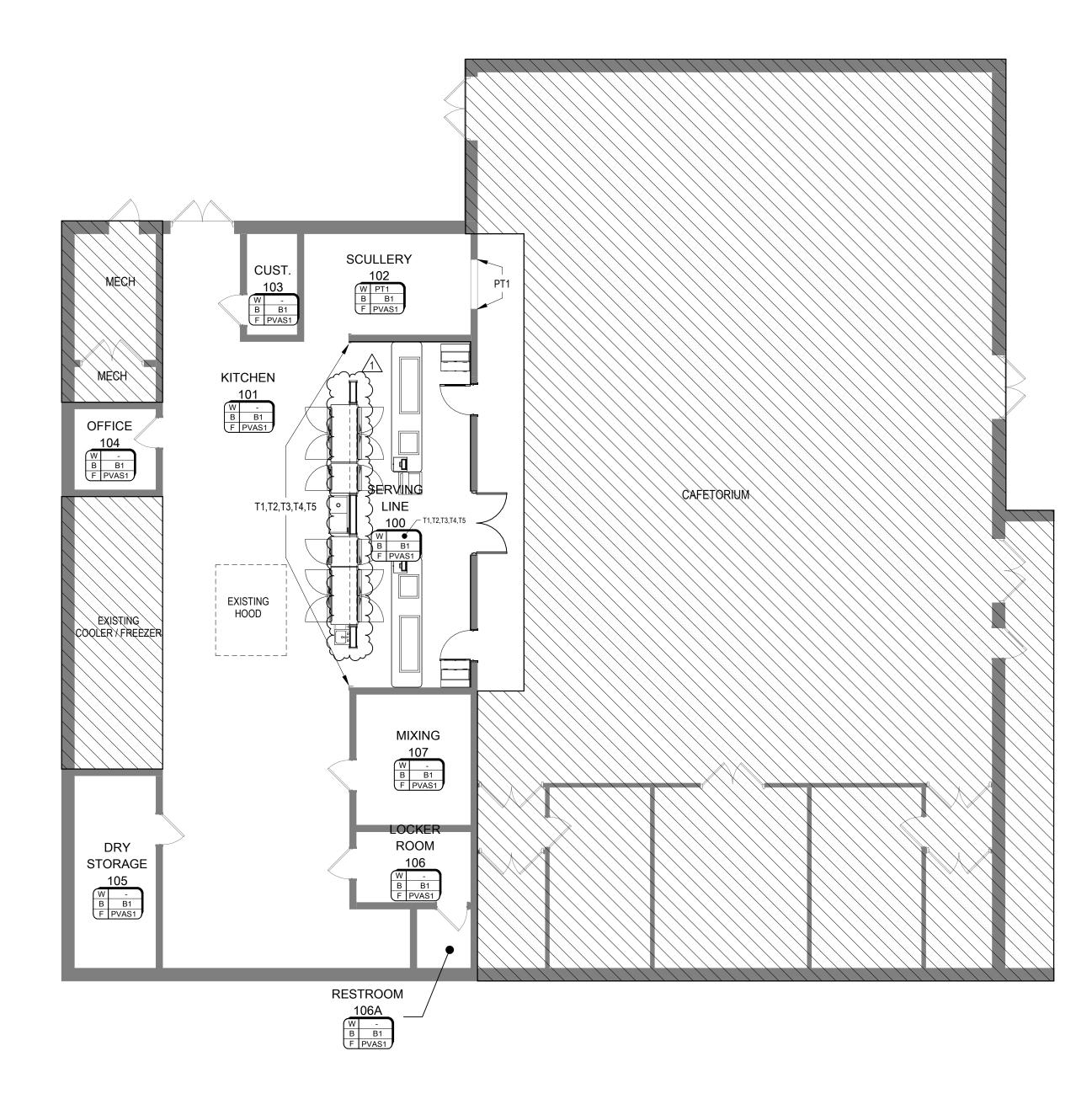




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WALL TILE COLOR MIXTURE





1 FINISH FLOOR PLAN 1/8" = 1'-0" REF 5 / A-101

GENERAL SHEET NOTES

- A. All flooring materials to meet at center of doorway UNO.
- B. All flooring materials continue under casework to toe kick or under open counter to wall.
- C. Door frames to be painted <MFR>, Color: _____. Finish: Semi-gloss enamel, UNO.
- D. Refer to Reflected Ceiling Plan sheet(s) for soffit ceiling finishes.

FINISH PLAN LEGEND

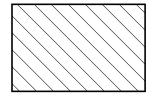
<u> </u>	ALLS:	
P	COLOR: SW0000 MAT	ERWIN WILLIAMS (OR EQUAL) CH EXISTING WALL COLOR ING FINISH AND TECTURE
Τſ	I - WALL TILE, FIELD MANUFACTURER : COLLECTION: COLOR: SIZE: GROUT:	CROSSVILLE RETRO ACTIVE 2.0 RET04 EMPRESS WHITE UPS 6" X 12" MAPEI 27 SILVER
T2	2 - WALL TILE, FIELD MANUFACTURER : COLLECTION: COLOR: SIZE: GROUT:	CROSSVILLE RETRO ACTIVE 2.0 RET09 PHANTOM UPS 6" X 12" MAPEI 27 SILVER
τ	3 - WALL TILE, ACCENT MANUFACTURER : COLLECTION: COLOR: SIZE: GROUT:	CROSSVILLE RET10 ACTIVE 2.0 RET10 UPS 6" X 12" MAPEI 27 SILVER
Τζ		CROSSVILLE RETRO ACTIVE 2.0 RET11 GULF BREEZE UPS 6" X 12" MAPEI 27 SILVER
Τξ	5 - WALL TILE, ACCENT MANUFACTURER : COLLECTION: COLOR: SIZE: GROUT:	
<u>B/</u>	ASE:	
Bʻ	 PLASTICIZED VINYL, A A GLASS FIBER REINF MANUFACTURER: COLLECTION: COLOR: SIZE: 	ALUMINUM OXIDE GRAINS AND SILICO FORCEMENT ALTRO ALTRO STRONGHOLD 30 CANNON-K30911 N/A

FLOOR:

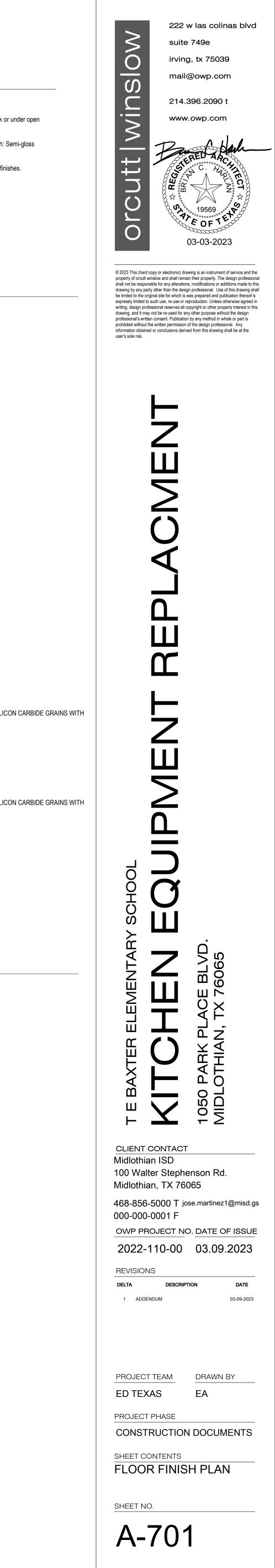
MANUFACIURER.
COLLECTION:
COLOR:
SIZE:

PVAS1 - PLASTICIZED VINYL, ALUMINUM OXIDE GRAINS AND SILICON CARBIDE GRAINS WITH A GLASS FIBER REINFORCEMENT MANUFACTURER: ALTRO COLLECTION: ALTRO STRONGHOLD 30 COLOR: CANNON-K30911 N/A

FLOOR PLAN LEGEND



NO WORK AREA



SECTION	087100 - DOOR HARDWARE
PART 1 - (
	SUMMARY
A.	Section includes:
	1. Mechanical and electrified door hardware
	2. Electronic access control system components
В.	Section excludes:
	1. Windows
	Cabinets (casework), including locks in cabinets
	3. Signage
	4. Toilet accessories
	5. Overhead doors
C.	Related Sections:
	 Division 01 Section "Alternates" for alternates affecting this section.
	2. Division 06 Section "Rough Carpentry"
	3. Division 06 Section "Finish Carpentry"
	4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold
	installation specified in this section.
	5. Division 08 Sections:
	a. "Metal Doors and Frames"
	b. "Flush Wood Doors"
	c. "Stile and Rail Wood Doors"
	 d. "Interior Aluminum Doors and Frames" e. "Aluminum-Framed Entrances and Storefronts"
	e. "Aluminum-Framed Entrances and Storefronts" f. "Stainless Steel Doors and Frames"
	g. "Special Function Doors"
	h. "Entrances"
	 Division 26 "Electrical" sections for connections to electrical power system and for low
	voltage wiring.
	 Division 28 "Electronic Safety and Security" sections for coordination with other
	components of electronic access control system and fire alarm system.
1.02	REFERENCES
	UL LLC
А.	1. UL 10B - Fire Test of Door Assemblies
	2. UL 10C - Positive Pressure Test of Fire Door Assemblies
	3. UL 1784 - Air Leakage Tests of Door Assemblies
	4. UL 305 - Panic Hardware
В.	DHI - Door and Hardware Institute
	1. Sequence and Format for the Hardware Schedule
	2. Recommended Locations for Builders Hardware
	Keying Systems and Nomenclature
	4. Installation Guide for Doors and Hardware
C.	NFPA – National Fire Protection Association
	1. NFPA 70 – National Electric Code
	2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
	3. NFPA 101 – Life Safety Code
	 NFPA 105 – Smoke and Draft Control Door Assemblies
	NFPA 252 – Fire Tests of Door Assemblies
D.	ANSI - American National Standards Institute
	1 ANSI A117.1 2017 Edition Accessible and Usable Buildings and Eacilities

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities 2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties 3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems 4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors 5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

DOOR HARDWARE

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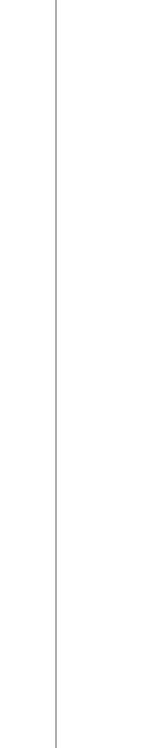
1.03 SUBMITTALS A. General:

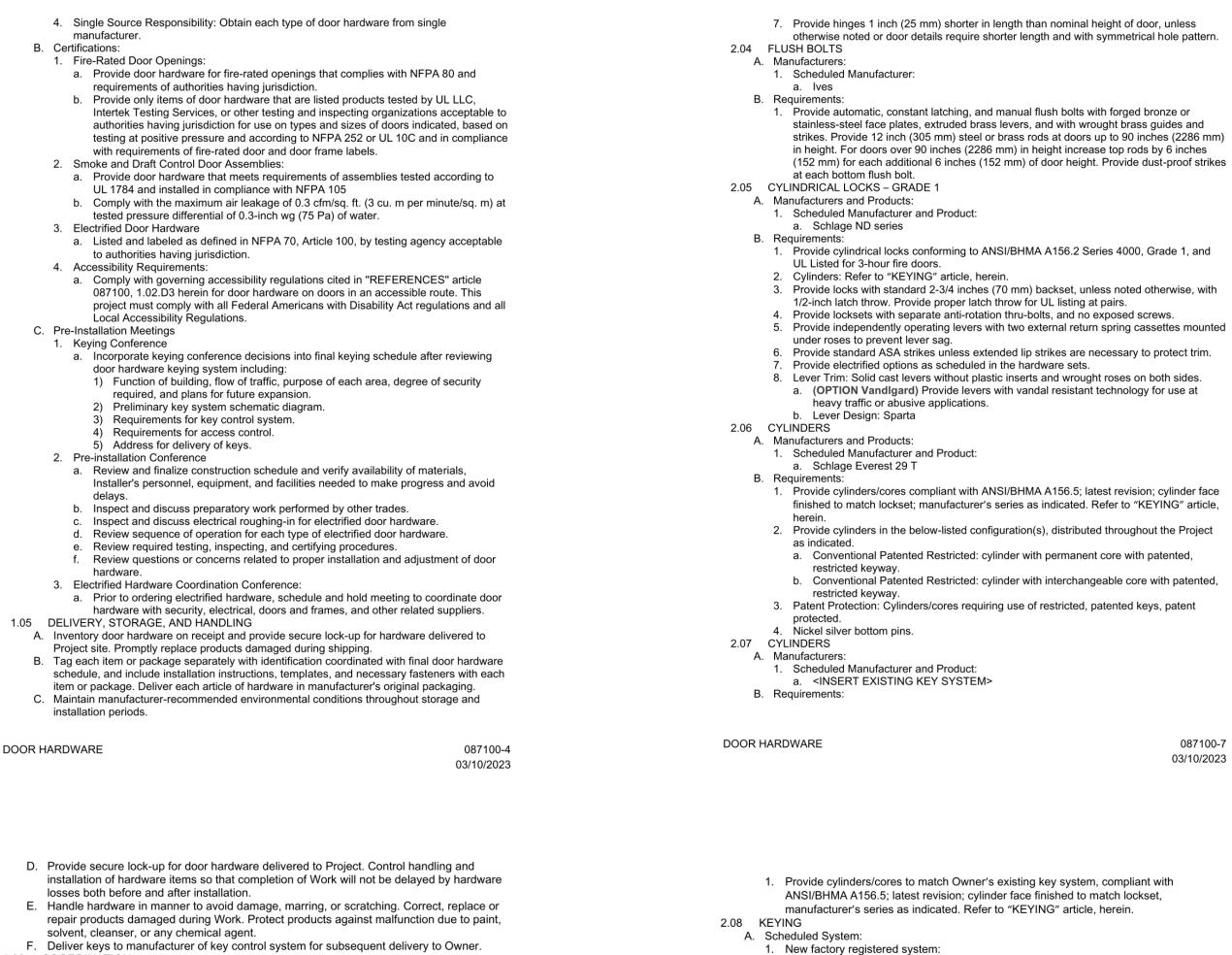
- 1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures. Prior to forwarding submittal: a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
- b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
- B. Action Submittals: 1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements. 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of
- electrified door hardware, indicating: a. Wiring Diagrams: For power, signal, and control wiring and including: 1) Details of interface of electrified door hardware and building safety and security
- ?) Schematic diagram of systems that interface with electrified door hardware. 3) Point-to-point wiring.
- 3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
- a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements 4. Door Hardware Schedule:
- a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule
- b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
- c. Indicate complete designations of each item required for each opening, include:) Door Index: door number, heading number, and Architect's hardware set number. 2) Quantity, type, style, function, size, and finish of each hardware item. Name and manufacturer of each item.
- Fastenings and other pertinent information. 5) Location of each hardware set cross-referenced to indications on Drawings. 6) Explanation of all abbreviations, symbols, and codes contained in schedule. Mounting locations for hardware
- 8) Door and frame sizes and materials. 9) Degree of door swing and handing. 10) Operational Description of openings with electrified hardware covering egress,
- ingress (access), and fire/smoke alarm connections. Kev Schedule: a. After Keying Conference, provide keying schedule that includes levels of keying,
- explanations of key system's function, key symbols used, and door numbers controlled
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying

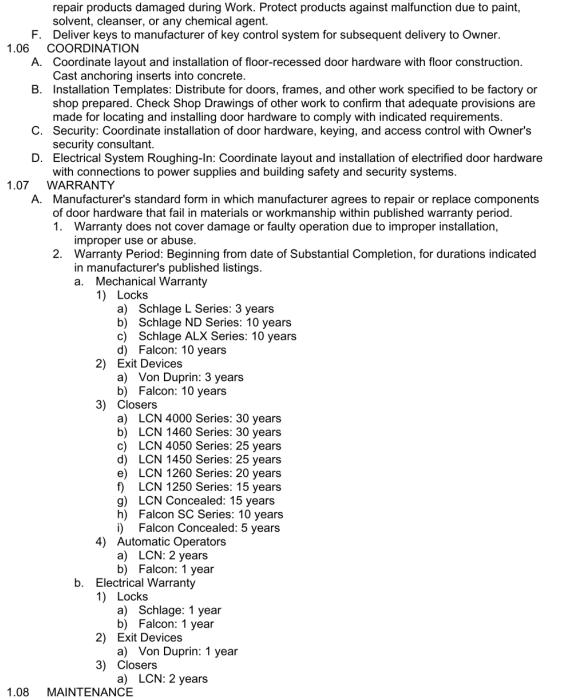
DOOR HARDWARE

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- c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each
- key to unique door designations. d. Index keying schedule by door number, keyset, hardware heading number, cross
- keying instructions, and special key stamping instructions. e. Provide one complete bitting list of key cuts and one key system schematic
- illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner. f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- Informational Submittals: 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant. 2. Provide Product Data:
- a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies. b. Include warranties for specified door hardware.
- D. Closeout Submittals: 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include: a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product. c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
- . Inspection and Testing: 1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for: a. Fire door assemblies, in compliance with NFPA 80.
- b. Required egress door assemblies, in compliance with NFPA 101. 1.04 QUALITY ASSURANCE
- A. Qualifications and Responsibilities: 1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years
 - documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation
- 2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project. 3. Architectural Hardware Consultant: Person who is experienced in providing consulting
- services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements: a. For door hardware: DHI certified AHC or DHC.
- b. Can provide installation and technical data to Architect and other related subcontractors.
- c. Can inspect and verify components are in working order upon completion of
- installation d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.

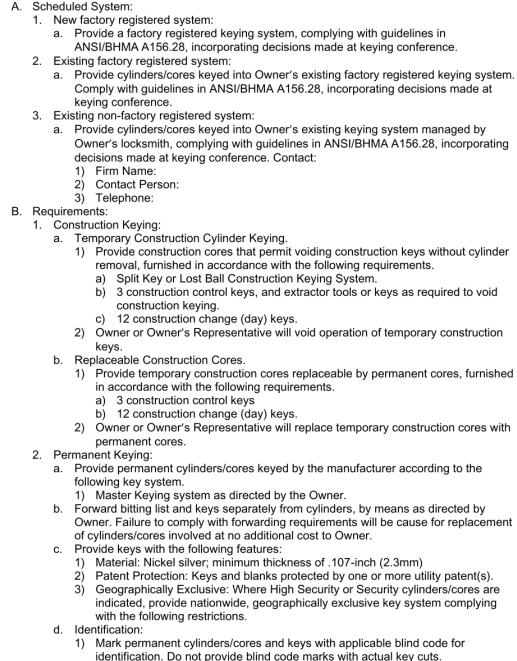








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DOOR HARDWARE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders

- B. Turn over unused materials to Owner for maintenance purposes.
- PART 2 PRODUCTS 2.01 MANUFACTURERS
 - A. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
 - B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
 - C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.
- 2.02 MATERIALS
- A. Fabrication 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
- 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted 3. Provide concealed fasteners wherever possible for hardware units exposed when door is
- closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required. B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for
- hardware installation. Where fasteners are exposed to view: Finish to match adjacent door hardware material. C. Cable and Connectors:
- 1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
- 2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices. 3. Provide through-door wire harness for each electrified locking device installed in a door
- and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies. 2.03 CONTINUOUS HINGES
- A. Manufacturers: Scheduled Manufacturer:

function of specified hardware.

- a. Ives B. Requirements:
- 1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26,
- 2. Provide aluminum geared continuous hinges, where specified in the hardware sets,
- fabricated from 6063-T6 aluminum. 3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating
- operation
- 4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
- 5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on
- rated doors by testing agency acceptable to authority having jurisdiction. 6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric
- DOOR HARDWARE

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3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection. 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner. 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner. e. Quantity: Furnish in the following quantities. 1) Change (Day) Keys: 3 per cylinder/core. 2) Permanent Control Keys: 3. 3) Master Keys: 6. 2.09 KEY CONTROL SYSTEM A. Manufacturers: Scheduled Manufacturer: a. Telkee B. Requirements: 1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project. a. Provide complete cross index system set up by hardware supplier, and place keys or markers and hooks in cabinet as determined by final key schedule. b. Provide hinged-panel type cabinet for wall mounting. 2.10 DOOR CLOSERS A. Manufacturers and Products: 1. Scheduled Manufacturer and Product: a. LCN 4040XP series B. Requirements: 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. Certify surface mounted mechanical closers to meet fifteen million (15,000,000) full load cycles. ISO 9000 certify closers. Stamp units with date of manufacture code 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cas iron cylinder, and full complement bearings at shaft. 3. Cylinder Body: 1-1/2-inch (38 mm) diameter with 11/16-inch (17 mm) diameter double heat-treated pinion journal. 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F. 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.

- 7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers. When closers are parallel arm mounted, provide closers which mount within 6-inch (152 mm) top rail without use of mounting plate so that closer is not visible through vision panel from pull side.
- 8. Pressure Relief Valve (PRV) Technology: Not permitted. 9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI/BHMA Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
- 10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with close mounting
- 2.11 DOOR TRIM A. Manufacturers:

DOOR HARDWARE

1. Scheduled Manufacturer

1. Scheduled Manufacturers:

stop presents tripping hazard.

a. Glynn-Johnson

2.13 DOOR STOPS AND HOLDERS

1. Scheduled Manufacturer:

button of thumbturn.

Scheduled Manufacture

Zero International

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)

Protection Plates: BHMA 630 (US32D)

Door Closers: Powder Coat to Match

8. Latch Protectors: BHMA 630 (US32D)

9. Weatherstripping: Clear Anodized Aluminum

Wall Stops: BHMA 630 (US32D)

10. Thresholds: Mill Finish Aluminum

a minimum thickness of 1.5 mils.

C. COPPER COATINGS

PART 3 - EXECUTION

3.01 EXAMINATION

3.02 INSTALLATION

the growth of bacteria, mold, mildew, and odor

a. Mortise Locks: Levers, Roses, and Bushings

connections before electrified door hardware installation.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.

3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A

4. Installation Guide for Doors and Hardware: DHI TDH-007-20

recommendations, using only fasteners provided by manufacturer.

or required to comply with governing regulations.

2. Custom Steel Doors and Frames: HMMA 831.

as necessary for proper installation and operation.

fasteners and anchors according to industry standards.

2. Exit Devices: Push Bar Assembly and Lever Trim

e. Push Plates and Pulls: all exposed surfaces front and back

A. Prior to installation of hardware, examine doors and frames, with Installer present, for

doors, frames, and walls have been properly reinforced for hardware installation.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring

compliance with requirements for installation tolerances, labeled fire-rated door assembly

C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install

C. Install each hardware item in compliance with manufacturer's instructions and

inspection, testing as specified in section 1.03.E unless otherwise required to comply with

D. Do not install surface mounted items until finishes have been completed on substrate. Protect

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate

construction, wall and floor construction, and other conditions affecting performance. Verify

b. Cylindrical Locks: Levers and Rose

Hospital Latch: Paddles

conditions have been corrected.

governing regulations.

excessive clearance.

DOOR HARDWARE

all installed hardware during painting.

registered with the EPA and FDA listed.

B. SILVER ION COATINGS

clear coating.

B. Provide door stops at each door leaf:

with diameter and length as scheduled.

2.12 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor

Provide friction type at doors without closer and positive type at doors with closer.

1. Provide wall stops wherever possible. Provide concave type where lockset has a push

4. Provide roller bumper where doors open into each other and overhead stop cannot be

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per

2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door

tested according to UL 1784 and installed in compliance with NFPA 105.

or flexible seal strip is easily replaceable and readily available

Aluminum Geared Continuous Hinges: BHMA 628 (US28)

3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)

Overhead Stops and Holders: BHMA 630 (US32D)

otherwise specified in the hardware sets or detailed in the drawings.

assemblies are required, provide door hardware that meets requirements of assemblies

Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient

4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless

Furnish antimicrobial coated hardware items designed with AM suffix to the finish.

3. The powder coat containing the antimicrobial compound to be electro-statically applied to

4. The antimicrobial coatings are to protect the surface of the hardware item by inhibiting

1. Furnish antimicrobial coated hardware components designated with 361 finish. The

applied coating must be recognized by the EPA as an anti-microbial /bactericidal surface

and must retain its efficacy for life of product. The coating must be applied to an SSPC-

finishing operations. The product must be manufactured with EPA registration #85353-1

SP 5 prepared surface with an average thickness of 0.004 inches (0.1016mm) post

5. Provide antimicrobial coating passing the BHMA clear coat requirements and be

meeting all marking and packaging requirements contained therein.

2. The non-toxic coating to be natural inorganic sliver-ion based antimicrobial added to the

Where a wall stop cannot be used, provide universal floor stops.

Where wall or floor stop cannot be used, provide overhead stop.

2.14 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND

architectural details. Match finish of other items.

a. Ives

B. Requirements:

A. Manufacturers:

B. Requirements:

A. Manufacturers:

GASKETING

A. Manufacturers:

B. Requirements:

2.15 FINISHES

DOOR HARDWARE

a. Ives

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2) Identification stamping provisions must be approved by the Architect and Owner.

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087100-

03/10/202;

hardware specified. B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of

a hardware set should be scheduled with the appropriate additional hardware required for

proper application.

. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

DOOR HARDWARE

the architect with corrections made prior to the bidding process. Omitted items not included in

specifications, drawings, and other Contract Documents to verify the suitability of the

3.05 DOOR HARDWARE SCHEDULE A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules,

or deterioration at time of Substantial Completion.

Provide final protection and maintain conditions that ensure door hardware is without damage

A. Clean adjacent surfaces soiled by door hardware installation. B. Clean operating items per manufacturer's instructions to restore proper function and finish.

3.04 CLEANING AND PROTECTION

requirements of authorities having jurisdiction. Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3. Door Closers: Adjust sweep period to comply with accessibility requirements and B. Occupancy Adjustment: Approximately three to six months after date of Substantial

2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage

open position of 30 degrees.

ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements. 1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an

3.03 ADJUSTING A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to

R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed. S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed

tripping hazard.

Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present

O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

ceilings or in equipment room, or alternate location as directed by Architect.

N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible

and stair side of stairway doors.

side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect. M. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors,

cabinet, as determined by final keying schedule. L. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair

K. Key Control System: Tag keys and place them on markers and hooks in key control system

5. Connections to panel interface modules, controllers, and gateways. 6. Testing and labeling wires with Architect's opening number.

directed by Architect.

4. Connection of wire to door position switches and wire runs to central room or area, as

2. Connections to and from power supplies to electrified hardware. Connections to fire/smoke alarm system and smoke evacuation system.

1. Conduit, junction boxes and wire pulls.

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087100-12

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087100-10

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J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:

. Replace construction cores with permanent cores as indicated in keying section. 3. Furnish permanent cores to Owner for installation

 Lock Cylinders: Install construction cores to secure building and areas during construction period.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space

G. Install operating parts so they move freely and smoothly without binding, sticking, or

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

