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M2.01 MECHANICAL DETAILS M3.01 MECHANICAL SCHEDULES M4.01 MECHANICAL SPECIFICATIONS M4.02 MECHANICAL SPECIFICATIONS

## TN6.00 TECHNOLOGY SPECS SECURITY

TA2.02 A/V ROOF RCP

**TECHNOLOGY** 

TY0.00 SECURITY GEN. NOTES & LEGEND TY1.00 SECURITY SITE PLAN TY1.01 SECURITY FIRST FLOOR PLAN TY5.00 SECURITY DETAILS TY5.01 SECURITY SCHEDULES TY6.00 SECURITY SPECIFICATIONS

TN0.00 TECH. GENERAL NOTES & LEGEND

TN3.00 TECHNOLOGY ENLARGED PLANS

TN1.01 TECH. FIRST FLOOR PLAN

TN5.00 TECHNOLOGY DETAILS

# PROJECT TEAM

ARCHITECT CONTRACTOR
FINKLE + WILLIAMS ARCHITECTURE FOGEL ANDERSON 8787 Renner Blvd, Suite 100 Lenexa, Kansas 66219 PH. 913.498.1550 9801 Renner Blvd, Suite 300 Lenexa, Kansas 66219

PH. 913-577-8341

LANDSCAPE HOERR SCHAUDT / LAND3 2100 Central St, Suite 01C Kansas City, Missouri 64108 PH. 312-492-6501

**FOUNDATIONS** BSE STRUCTURAL ENGINEERS 11320 West 79th St. Lenexa, Kansas 66214 PH. 913-492-7400

STRUCTURAL BSE STRUCTURAL ENGINEERS 11320 West 79th St. Lenexa, Kansas 66214 PH. 913-492-7400

1212 E. 8th St. Kansas City, Missouri 64106 PH. 816-842-6914 **MECHANICAL** 

HENDERSON ENGINEERS

8345 Lenexa Dr, Suite 300 Lenexa, Kansas 66214 PH. 913-742-5000 **PLUMBING** HENDERSON ENGINEERS

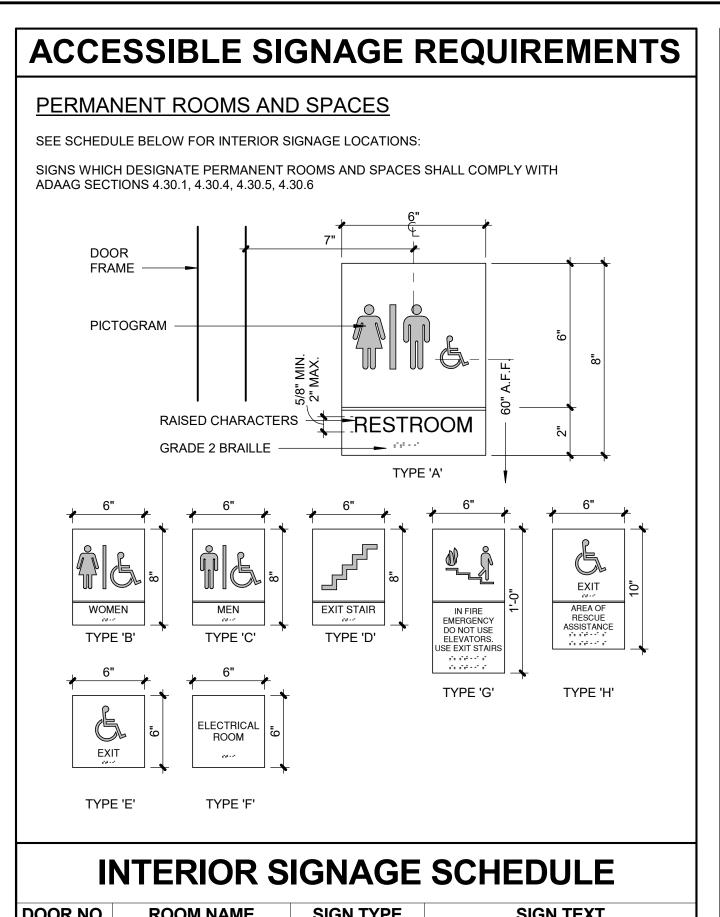
8345 Lenexa Dr, Suite 300 Lenexa, Kansas 66214 PH. 913-742-5000 **ELECTRICAL** 

HENDERSON ENGINEERS 8345 Lenexa Dr, Suite 300 Lenexa, Kansas 66214 PH. 913-742-5000

FIRE PROTECTION
HENDERSON ENGINEERS 8345 Lenexa Dr, Suite 300 Lenexa, Kansas 66214 PH. 913-742-5000



2



#### **ROOM NAME** SIGN TYPE **SIGN TEXT** DOOR NO. WATER SERVICE WATER SERVICES

ELECTRICAL ROOM

# CHARACTERS SHALL BE RAISED MINIMUM 1/32"

**ELECTRICAL** 

RESTROOM

- CHARATERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE
- CHARACTERS SHALL BE UPPER CASE & SANS SERIF OR SERIF TYPESTYLE b. CHARACTERS SHALL BE A MINIMUM OF 5/8" HIGH AND MAXIMUM 2" HIGH
- PICTOGRAMS (SYMBOLS) PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTORGRAM AS INDICATED.
- THE BORDER DIMENSION OF THE PICTORGRAM SHALL BE 6" MIN. IN HEIGHT
- INTERIOR SIGNAGE 1. GLARE FINISH AS RECOMMENDED BY THE SIGN MANUFACTURER. 2. BACKGROUND SHALL CONSIST OF 1/4" ACRYLIC, COLOR TO MATCH SW 7068 "GRIZZLE GREY"
- 3. CHARACTERS AND SYMBOLS SHALL BE WHITE EXTERIOR SIGNAGE 1. SOLID ALUMINUM CONSTRUCTION 2. CUSTOM PAINT BODY COLOR TBD TO MATCH MB-1

3. GLARE FINISH AS RECOMMENDED BY THE SIGN MANUFACTURER.

## MOUNTING LOCATION AND HEIGHT

- a. MOUNT AT 60" ABOVE FINISH FLOOR TO THE CENTER OF SIGN MOUNT ON WALL ADJACENT TO THE LATCH SIDE OF THE DOOR IF NO WALL SPACE EXISTS ON THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, MOUNT ON THE NEAREST ADJACENT WALL
- INCLUDE 4" HIGH VINYL WHITE LETTERS W/ MIN. 0.5" STROKE READING "SPRINKLER ROOM" APPLIED TO EXTERIOR SIDE OF DOOR, AS REQUIERD BY LOCAL FIRE DEPT.

# **DIRECTIONAL INFORMATION**

**A0.01** SCALE: 3" = 1'-0"

OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL COMPLY WITH ADAAG SECTIONS: 4.30.1, 4.30.2, 3.30.3, 4.30.5

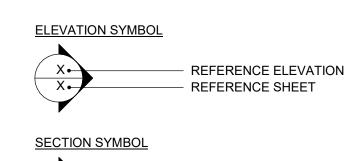
# DRAWING SYMBOLS LEGEND

EXISTING CONSTRUCTION TO REMAIN 

NEW CONSTRUCTION

- WALL TYPE DESIGNATION -• XX REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A0.02 FOR CONSTRUCTION REQUIREMENTS.
- **ROOM NAME AND NUMBER -**REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR FINISHES.
- DOOR AND FRAME DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DOOR AND FRAME SCHEDULE FOR REQUIREMENTS.

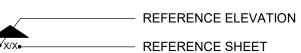
- REFERENCE SECTION



- REFERENCE SHEET ENLARGED DETAIL / ENLARGED PLAN SYMBOI

REFERENCE DETAIL REFERENCE SHEET

### **INTERIOR ELEVATION SYMBOL**



### FINISH DESIGNATION SYMBOL

XX-1 WALL FINISH DESIGNATION XX-1- BASE FINISH DESIGNATION LIMITS OF WALL AND BASE FINISHES

> REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS.

- FLOOR FINISH DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS.
- **REVISION NOTE**
- **CONSTRUCTION NOTE**
- **DEMOLITION NOTE**
- **RESTROOM ACCESSORY DESIGNATION -**
- GYPSUM BOARD CONTROL JOINT -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DETAIL 2/A0.01 FOR CONSTRUCTION REQUIREMENTS.
- CONCRETE MASONRY CONTROL JOINT -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DETAIL 3/A0.01 FOR CONSTRUCTION REQUIREMENTS.
- WALL MOUNTED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENMFG.COM, MODEL MP10 W/B2 MOUNTING BRACKET, REFERENCE FLOOR PLAN(S) FOR LOCATIONS. MOUNT SO CENTERLINE OF EXTINGUISHER IS 46" A.F.F.
- SEMI-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENMFG.COM OR APPROVED EQUAL: ARCHITECTURAL SERIES, MODEL # AL-2409-6R. ALUMINUM, SEMI-RECESSED (2 1/2" PROTRUSION FROM WALL WITH ROLLED EDGES), SOLID DOOR WITH RECESSED HANDLE, ENGRAVED VERTICAL LETTERS WITH NO BACKFILL "FIRE EXTINGUISHER" ON DOOR. CABINET TO BE PROVIDED WITH MP10 FIRE EXTINGUISHER AND MANUFACTURER'S STANDARD MOUNTING

BRACKET. MOUNT SO CENTERLINE OF CABINET HANDLE IS 46" A.F.F.

**CONTROL JOINT** 

SCALE: 3" = 1'-0"

A0.01

# **GENERAL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE APPLICABLE CODE INDICATED IN THE BUILDING SUMMARY COLUMN AND ALL LOCAL CODES PRESENTLY IN EFFECT UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
- ALL NEW CONSTRUCTION SHALL COMPLY W/THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE (INCLUDES ICC A117.1 PER IBC)
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED INSPECTIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BUILDING & SITE
- UTILITIES BETWEEN CIVIL & MEP DRAWINGS. THE CONTRACTOR SHALL ALSO CONTACT ALL APPLICABLE UTILITY COMPANIES & PROVIDE CONDUIT & OTHER FACILITIES AS REQUIRED. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS & CONDITIONS ON THE JOB SITE PRIOR TO THE BIDDING OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. IN CASES OF DISCREPANCY CONCERNING DIMENSIONS, QUANTITIES AND LOCATION, THE CONTRACTOR SHALL, IN WRITING, CALL TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN SPECIFICATIONS, PLANS, DETAILS OR SCHEDULES. THE ARCHITECT WILL THEN INFORM THE CONTRACTOR, IN WRITING, WHICH DOCUMENT TAKES PRECEDENCE. THERE SHALL BE NO ADJUSTMENT TO THE COST OR TIME OF THE WORK RESULTING FROM CLARIFICATION OF SUCH DISCREPANCIES.
- DIMENSIONS ON DRAWINGS ARE SHOWN TO FINISHED FACE OF WALLS AND PARTITIONS OF EXISTING OR NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS AND ALL OTHER VERTICAL DIMENSIONS ARE TO THE FINISHED FLOOR SURFACE UNLESS OTHERWISE NOTED.
- ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES FOR CASEWORK, FINISHES, DOORS, FRAMES, HARDWARE, MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, AND OTHER ITEMS REQUIRING ARCHITECT'S REVIEW FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. AND FOR ALL ITEMS WHICH ALLOWED CONTRACTOR OPTIONS. PRIOR TO FORWARDING TO THE ARCHITECT FOR REVIEW. THESE SUBMITTALS MUST BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL AFFIX A STAMP TO SUBMITTAL INDICATING HIS REVIEW. SUBMITTALS FORWARDED WITHOUT A STAMP WILL BE RETURNED. ALL SUBMITTALS MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST FAULT OF ANY MATERIAL OR WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION OR ACCEPTANCE. FAULTY WORK SHALL BE REPLACED OR REPAIRED AS REQUIRED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WITH OWNER ALL ITEMS TO BE SALVAGED PRIOR TO SUBMISSION OF BIDS AND START OF CONSTRUCTION. OWNER SHALL HAVE SALVAGE RIGHTS TO RETAIN ALL REMOVED ITEMS.
- ALL CHANGES PROPOSED DURING CONSTRUCTION WHICH RESULT IN A CHANGE TO THE CONTRACT TIME AND/OR SUM SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AND

APPROVED BY THE ARCHITECT AND OWNER BEFORE SUCH WORK SHALL COMMENCE.

- 12. CONTRACTOR SHALL COORDINATE CLEAR OPENINGS FOR ALL APPLIANCES PRIOR TO CONSTRUCTION OF CASEWORK.
- CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-RETARDANT TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- CONTRACTOR SHALL COORDINATE ALL LOCK AND LATCH SETS AND FINAL KEYING WITH OWNER. DOUBLE KEYED LOCKS ARE NOT PERMITTED ON ANY REQUIRED OR MARKED EXIT. MATCH EXISTING KEYING SYSTEM IF ONE IS EXISTING.
- 15. ALL DOOR HARDWARE ON EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS
- SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT.
- CONTRACTOR SHALL PREPARE ALL NEW AND EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SUBSTRATE & FINISH BEING APPLIED.
- CONTRACTOR SHALL COORDINATE FINAL QUANTITY AND LOCATIONS OF FIRE EXTINGUISHERS WITH THE FIRE DEPARTMENT AND/OR BUILDING DEPARTMENT. SEE SYMBOLS LEGEND FOR TYPE OF EXTINGUISHER.
- 18. ALL CONSTRUCTION MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE. OR SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.
- 19. ALL PIPING, LOW VOLTAGE WIRE AND CABLE, OPTICAL FIBER, PNEUMATIC TUBING, AND ALL DUCT AND DUCT COVERINGS, LININGS AND CONNECTORS INSTALLED WITHIN PLENUMS MUST BE RATED FOR PLENUM USE.
- 20. TENANT SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF VOICE AND DATA CABLING AND EQUIPMENT.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE AUTOMATIC SPRINKLER SYSTEM. THE DESIGN SHALL BE PER NFPA REQUIREMENTS.
- 22. ALL NEW GLASS AND GLAZING LOCATED IN HAZARDOUS LOCATIONS AS DEFINED IN IBC SECTION 2406.3 SHALL MEET THE REQUIREMENTS FOR SAFETY GLAZING AS DEFINED IN IBC
- 23. IF THE CONTRACTOR FAILS TO SUBMIT A MATERIAL FOR APPROVAL, THE MATERIAL MAY BE REQUIRED TO BE REMOVED BY THE CONTRACTOR EITHER BY DIRECTION OF THE OWNER OR ARCHITECT.
- 24. ALL HIGH-PILED STORAGE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE APPLICABLE EDITION OF THE INTERNATIONAL FIRE CODE.
- 25. THE CONTRACTOR IS TO PROVIDE AS BUILT DRAWINGS IN HARD COPY & AN ELECTRONIC AUTOCAD FILE TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
- 26. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES, DUCTWORK, & STRUCTURE PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES, DUCTWORK, AND STRUCTURE. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONSTRUCTION INDICATED TO REMAIN AND SHALL REPAIR AND/OR REPLACE ALL AREAS AND /OR MATERIAL DAMAGED DURING CONSTRUCTION AT A MINIMUM TO THE CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION.

# PROFESSIONAL SERVICES DISCLAIMER

THIS DISCLAMER SERVES NOTICE OF ACCEPTANCE OF RESPONSIBILITY AND DISCLAIMER OF RESPONSIBILITY AS TO THE CONTRACT DOCUMENTS PREPARED FOR

19050.02, LOT 20 - HUB BUILDING BY FINKLE + WILLIAMS, INC. THE UNDERSIGNED ARCHITECT, AND FINKLE + WILLIAMS, INC., ARE RESPONSIBLE FOR PREPARATION OF ONLY THE NOTED CONSTRUCTION DRAWINGS BELOW:

<u>TITLE</u> DATE **COVER SHEET** 8/06/21 A0.01 LEGENDS & GEN. NOTES 8/06/21 8/06/21 WALL TYPES ARCHITECTURAL SITE PLAN & DETAILS 8/06/21 8/06/21 FIRST FLOOR PLAN ENLARGED TOILET PLANS AND DETAILS 8/06/21 INTERIOR ELEVATIONS 8/06/21 8/06/21 **ROOF PLAN** 8/06/21 **EXTERIOR ELEVATIONS** 8/06/21 EXTERIOR ELEVATIONS

8/06/21 **BUILDING SECTIONS** WALL SECTIONS 8/06/21 8/06/21 WALL SECTIONS WALL SECTIONS DETAILS DETAILS DOOR SCHEDULE AND DETAILS

8/06/21 8/06/21 8/06/21 8/06/21 DOOR & WINDOW DETAILS 8/06/21 FINISH SCHEDULE AND DETAILS 8/06/21 REFLECTED CEILING PLAN 8/06/21 PROJECT SPECIFICATIONS 8/06/21 8/06/21 PROJECT SPECIFICATIONS PROJECT SPECIFICATIONS 8/06/21

THE UNDERSIGNED ARCHITECT AND FINKLE + WILLIAMS DISCLAIM RESPONSIBILITY FOR ALL OTHER CONSTRUCTION DOCUMENTS, AND ANY OTHER SPECIFICATIONS, REPORTS, ESTIMATES, SHOP DRAWINGS, ETC. RELATING TO OR INTENDED TO BE USED FOR ANY PART OF THE ARCHITECTURAL OR ENGINEERING PROJECT, INCLUDING ANY GEOTECHNICAL ENGINEERING SERVICES, OR ENVIRONMENTAL REPORTS.

THIS NOTICE IS EXECUTED BY THE UNDERSIGNED AND AUTHENTICATED BY THE ARCHITECTURAL SEAL OF THE PERSON PREPARING THS NOTICE.

ARCHITECT: DAVID A. WILLIAMS

# **BUILDING SUMMARY**

**GENERAL BUILDING INFORMATION** PROJECT NAME: \_ LOT 20 - HUB BUILDING ADDRESS: 2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081 PROPOSED USE: \_

APPLICABLE CODES

NTERNATIONAL BUILDING CODE (IBC <u>NTERNATIONAL MECHANICAL CODE (IMC)</u> NTERNATIONAL PLUMBING CODE (IPC) NTERNATIONAL FIRE CODE (IFC) <u> 2018 EDITI</u> INTERNATIONAL FUEL GAS CODE (IFGC
INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE 10 2000 EDITIO DEPT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN

GENERAL BUILDING LIMITATIONS (CHAPTER 3, 5)

Group (B) TYPE II-B 23,000 S.F OCCUPANCY CLASSIFICATION: **CONSTRUCTION TYPE: BASIC ALLOWABLE FLOOR AREA:** 3 STORIES, 55 FT **BASIC ALLOWABLE HEIGHT:** 

**HEIGHT MODIFICATIONS (Sec. 504)** 

SPRINKLER INCREASE: Sprinkler increase = 20' and (1) Story TOTAL ALLOWABLE HEIGHT: 75', (4) Stories TOTAL PROPOSED HEIGHT: 20', (1) Stories

PROVIDED THROUGHOUT PER IBV 907 AND

(ANCILLARY)

11 OCCUPANTS

FIRE PROTECTION

FIRE ALARM & DETECTION SYSTEM:

ALL OTHER SPACES =

TOTAL =

FIRE SPINKLER SYSTEM: PROVIDED THROUGHOUT PER IBC 903 AND NSTALLED PER NFPA 13

NSTALLED PER NFPA 72 GENERAL EXITING LIMITATIONS (CHAPTER 10)

OCCUPANT LOAD (1004): **BUSINESS:** OPEN OFFICE: 1247 / 150 SF = 9 OCCUPANTS ACCESSORY STORAGE / MECHANICAL: 458 / 300SF = 2 OCCUPANTS

**MAXIMUM TRAVEL DISTANCE (1016)** B = 300 FT (FULLY SPRINKLERED)

MINIMUM PLUMBING FIXTURE COUNT (CHAPTER 29) WATER CLOSETS | LAVATORIES | DRINKING | OTHER OCCUPANT LOAD | MALE\* | FEMALE | MALE\* | FEMALE | FOUNTAINS~ REQ'D/PROV. REQ'D/PROV. REQ'D/PROV. REQ'D/PROV. REQ'D/PROV. 1 Serv. (B) 11 OCC. PER CODE PLAN 1/1 1/1 1/1 0/0\* Sink

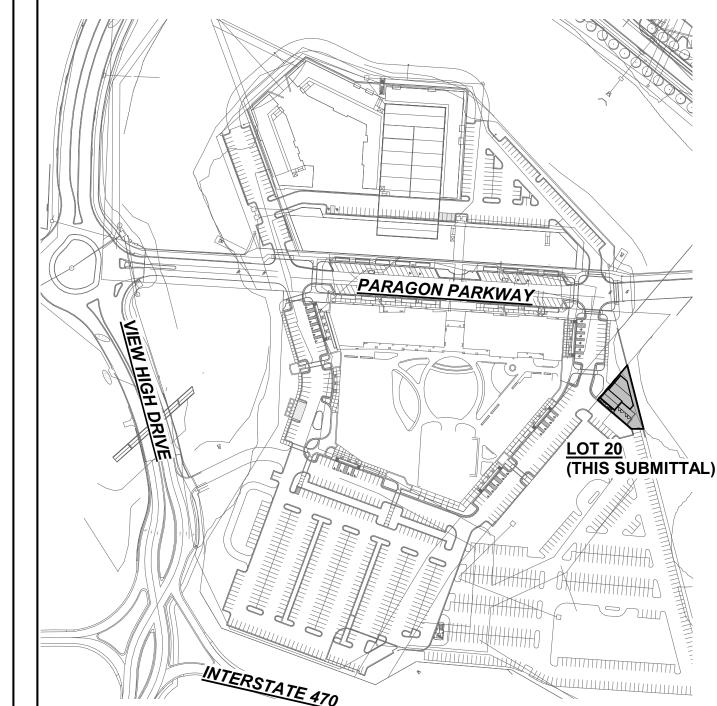
Water coolers or bottled water dispensers shall be permitted to be substituted for no more than 50 percent of the required drinking fountains as permitted by section 410.1 of the IPC.

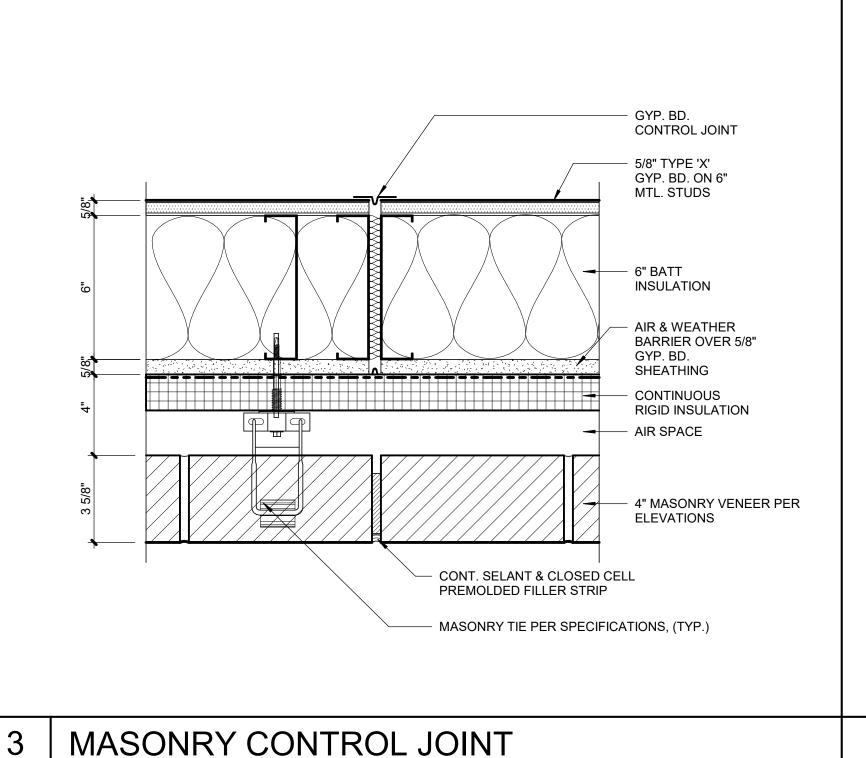
Separate facilities shall not be required in business occupancies in which a maximum occupant

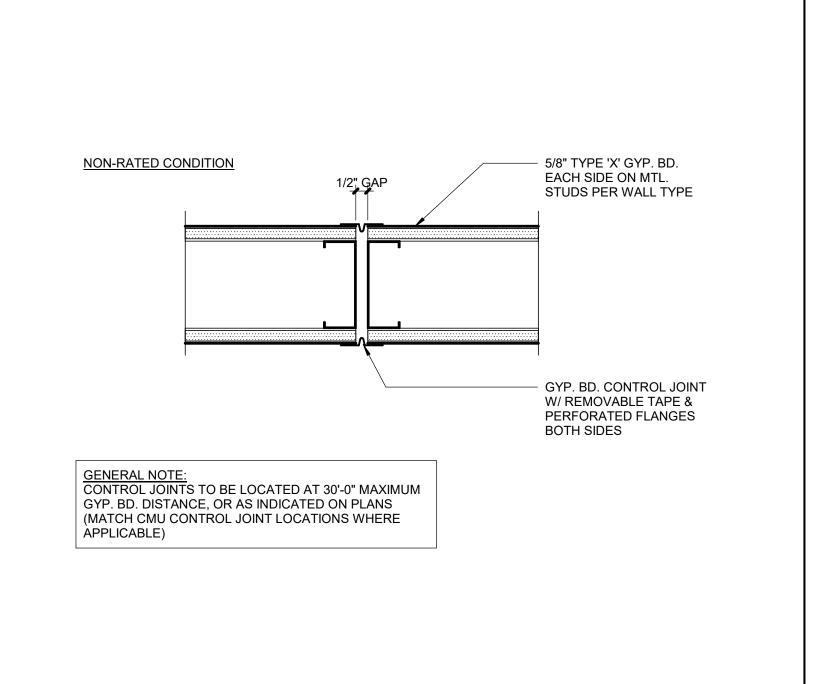
Drinking foundtains shall not be required for an occupant load of 15 or fewer.

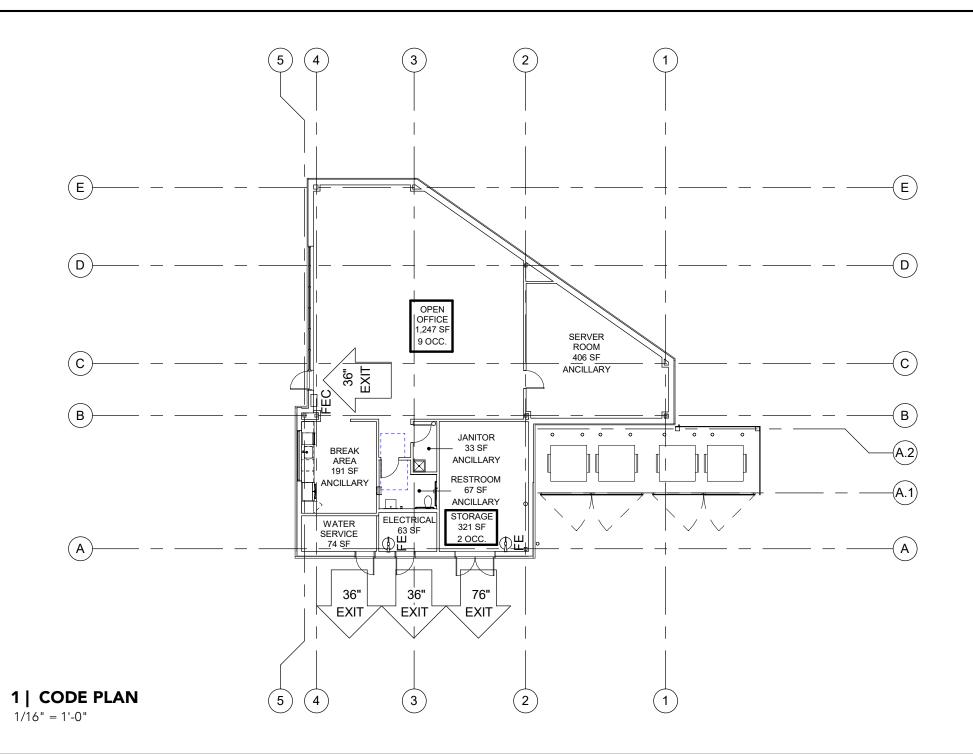
403.2 Separate Facilities: Exception 4:

\*410.2 Small Occupancies:

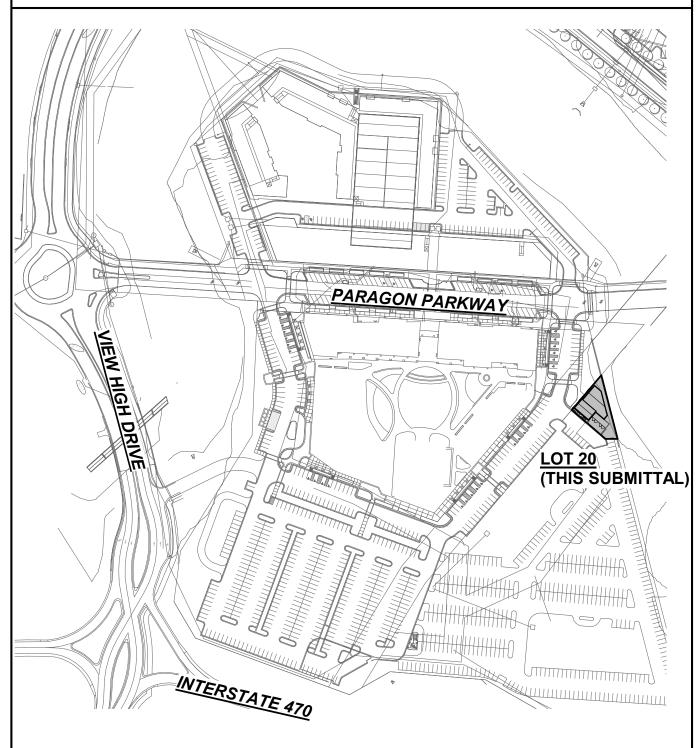








**CODE REVIEW PLANS** 



**LOCATION PLAN** 

PARAGON STAR

BUILDING

2151 NW PARAGON PKWY

LOT 20 - HUB

LEE'S SUMMIT, MO 64081 Project No.: 19050.02 08/06/2021

REVISIONS

Issued For: PERMIT SET

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE

LANDSCAPE HOERR SCHAUDT /

BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** 

FOUNDATIONS

PLUMBING HENDERSON **ENGINEERS MECHANICAL** HENDERSON

ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

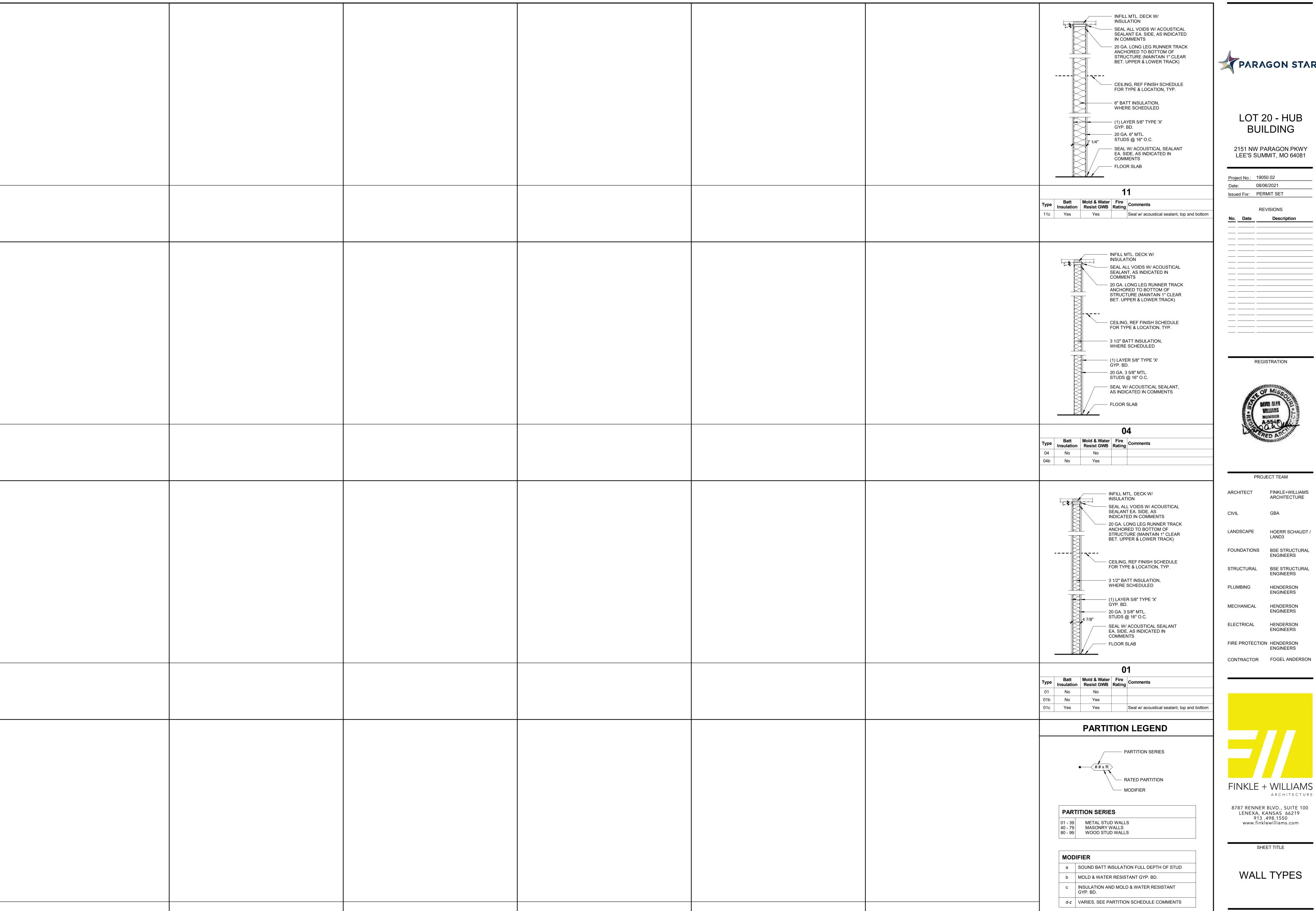
FINKLE + WILLIAMS ARCHITECTURE

8787 RENNER BLVD., SUITE 100 LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

SHEET TITLE

LEGENDS & **GEN. NOTES** 

A0.01

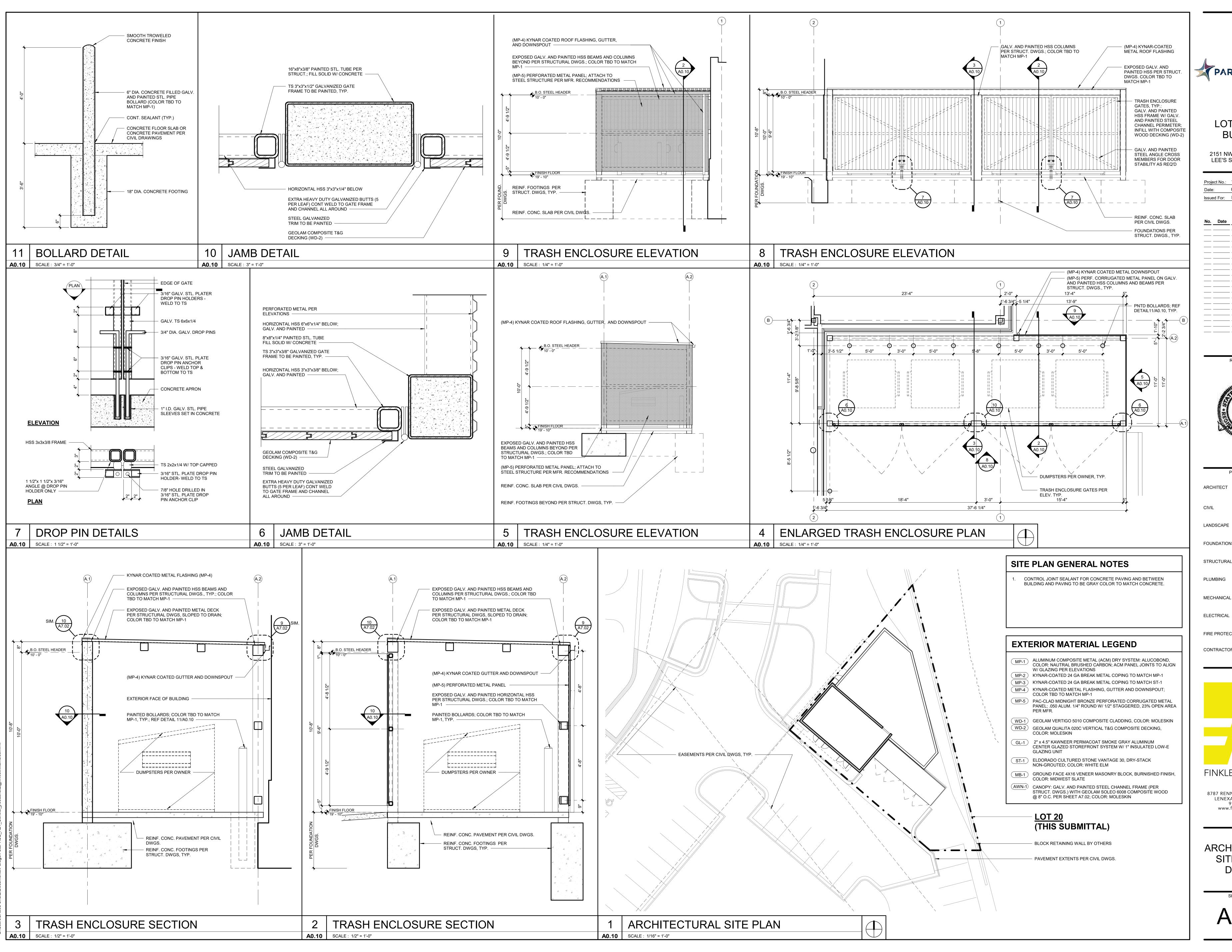


FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL BSE STRUCTURAL

ARCHITECTURE

SHEET NUMBER

R FIRE RATED, SEE SCHEDULE FOR ADDITIONAL INFO.



LOT 20 - HUB BUILDING

2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081

 Project No.:
 19050.02

 Date:
 08/06/2021

 Issued For:
 PERMIT SET

REVISIONS

D. Date Description

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

CAPE HOERR SCHAUDT / LAND3

DATIONS BSE STRUCTURAL

**ENGINEERS** 

**ENGINEERS** 

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS
FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

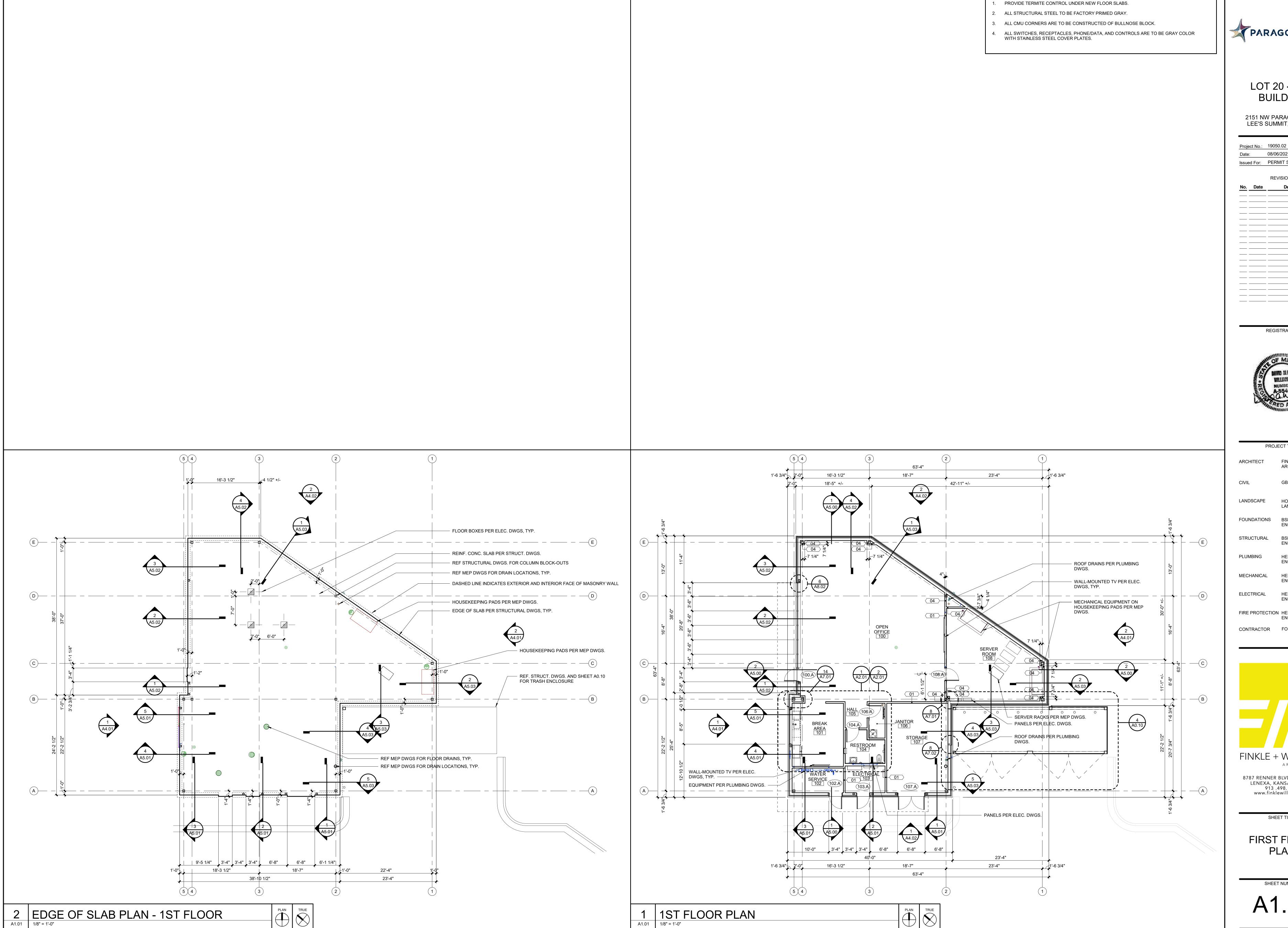
ARCHITECTURE

8787 RENNER BLVD., SUITE 100 LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

SHEET TITLE

ARCHITECTURAL SITE PLAN & DETAILS

AO.10





CONSTRUCTION GENERAL NOTES

LOT 20 - HUB BUILDING

2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081

Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL **ENGINEERS** HENDERSON **ENGINEERS** MECHANICAL HENDERSON HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON ENGINEERS CONTRACTOR FOGEL ANDERSON

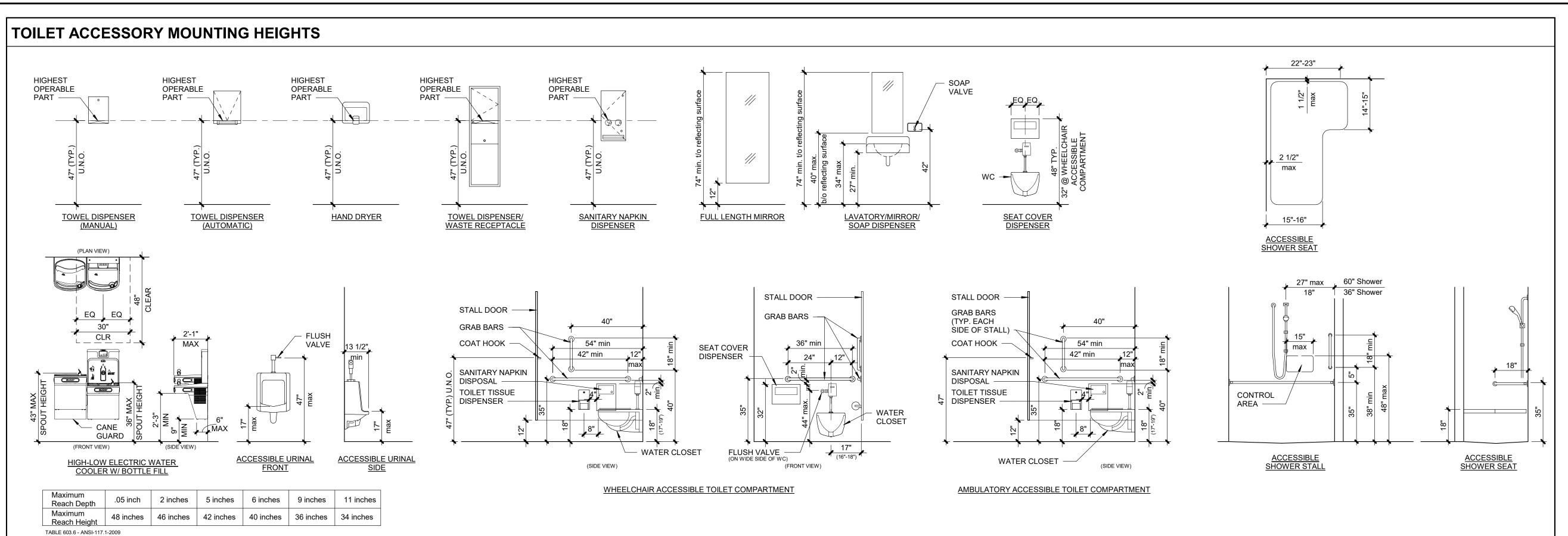


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SHEET TITLE

FIRST FLOOR PLAN

SHEET NUMBER A1.01



## TOILET ACCESSORY / EQUIPMENT LEGEND

- ALL ACCESSORIES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL ACCESSORIES SHALL BE DESIGNED TO MEET ADA STANDARDS.
- (1) COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE, RECESSED (BOBRICK B-3944)
- ALITOMATIC WALL MOUNTED COAD DIODENICED (DODDIOK D 2040)
- 2 AUTOMATIC WALL MOUNTED SOAP DISPENSER (BOBRICK B-2012)
- 3 FRAMED MIRROR (BOBRICK B-165) 30"W X 48"H
- 4 MULTI-ROLL TOILET TISSUE DISPENSER W/NO KEYED LOCK (BOBRICK B-2888)
- (5) GRAB BARS AS SHOWN ON PLANS AND ELEVATIONS (BOBRICK B-6806 SERIES)
- 5A) GRAB BAR (BOBRICK B6806 X 42)
- LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS

  (5B) GRAB BAR (BOBRICK B6806 X 36)
- LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS
- GRAB BAR (BOBRICK B6806 X 18)
  LOCATE AS SHOWN IN ACCESSORY MOUNTING HEIGHTS

(6) SANITARY NAPKIN DISPOSAL, RECESSED WALL MOUNT (BOBRICK B-353)

- 7 U-LINE WALL-MOUNT UTILITY HOOKS
- (11) COAT AND HAT HOOK (BOBRICK B-6827)
- (12) A.D.A. RESTROOM SIGNAGE, SEE SHEET A0.01

REGISTRATION

PARAGON STAR

LOT 20 - HUB

BUILDING

2151 NW PARAGON PKWY

LEE'S SUMMIT, MO 64081

08/06/2021

REVISIONS

Project No.: 19050.02

Issued For: PERMIT SET



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** BSE STRUCTURAL STRUCTURAL **ENGINEERS** HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS

FINKLE + WILLIAMS

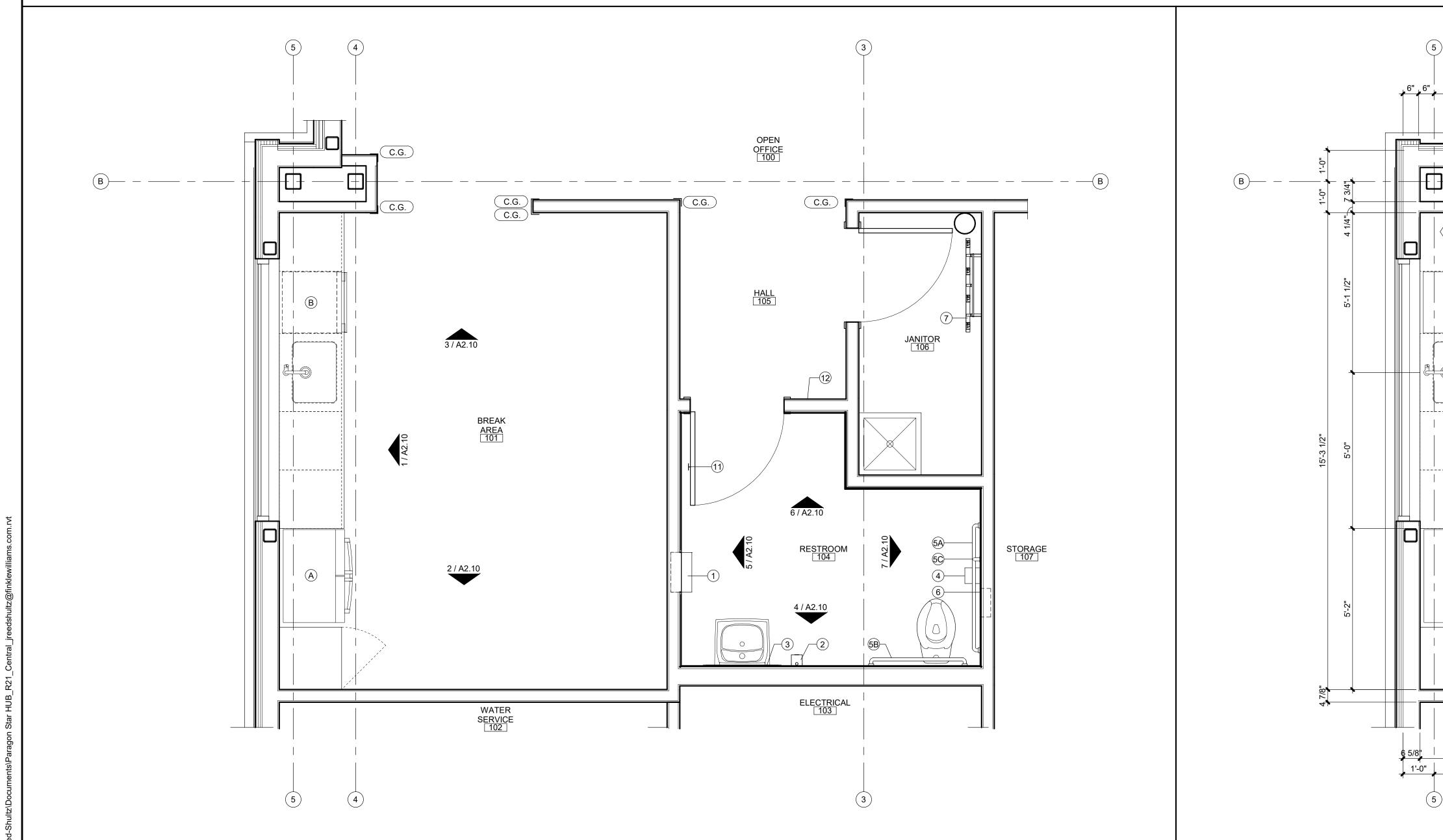
ARCHITECTURE

8787 RENNER BLVD., SUITE 100
LENEXA, KANSAS 66219
913 .498.1550
www.finklewilliams.com

SHEET TITLE

ENLARGED TOILET PLANS AND DETAILS

A2.01



PLAN TRUE

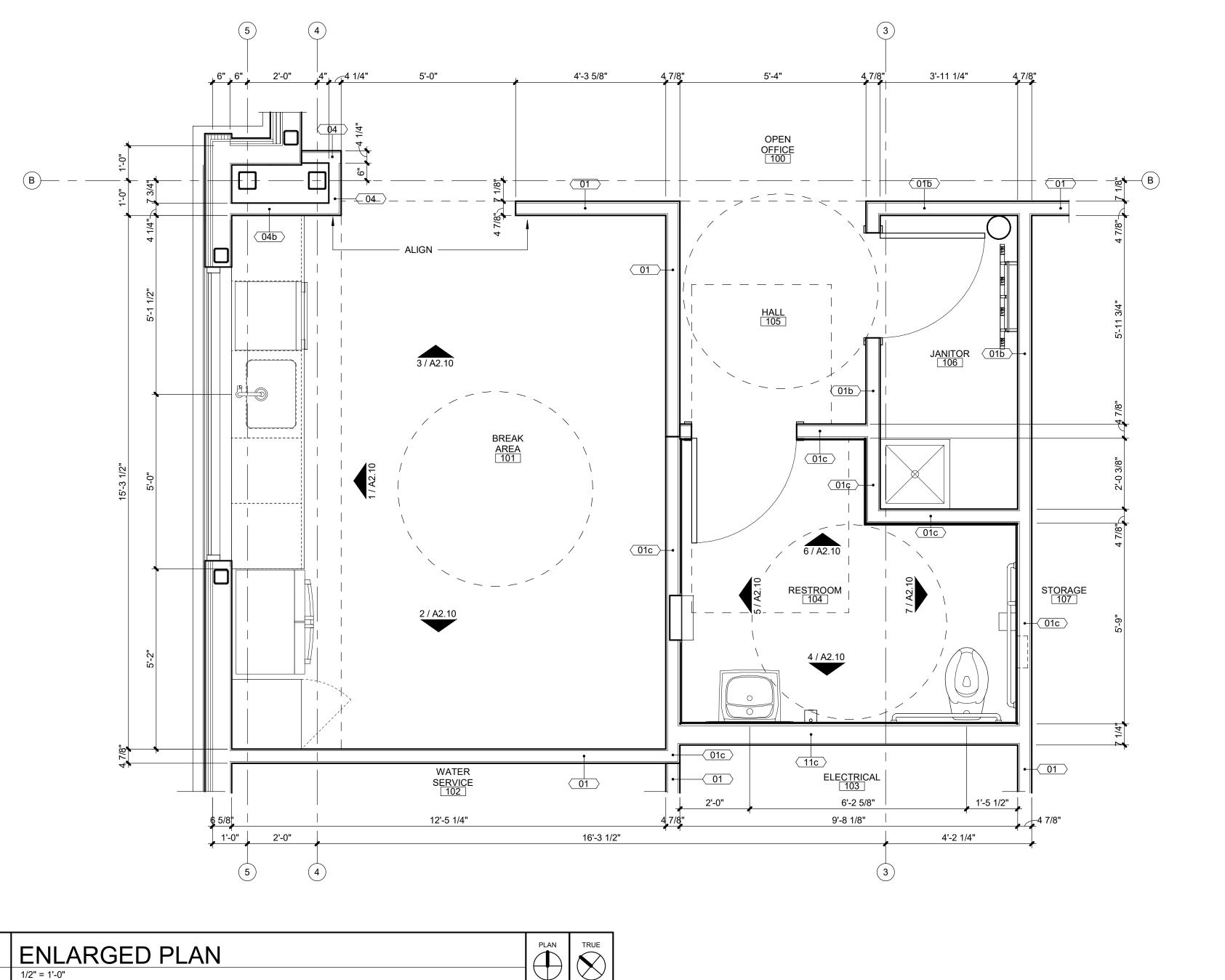
APPLIANCE LEGEND

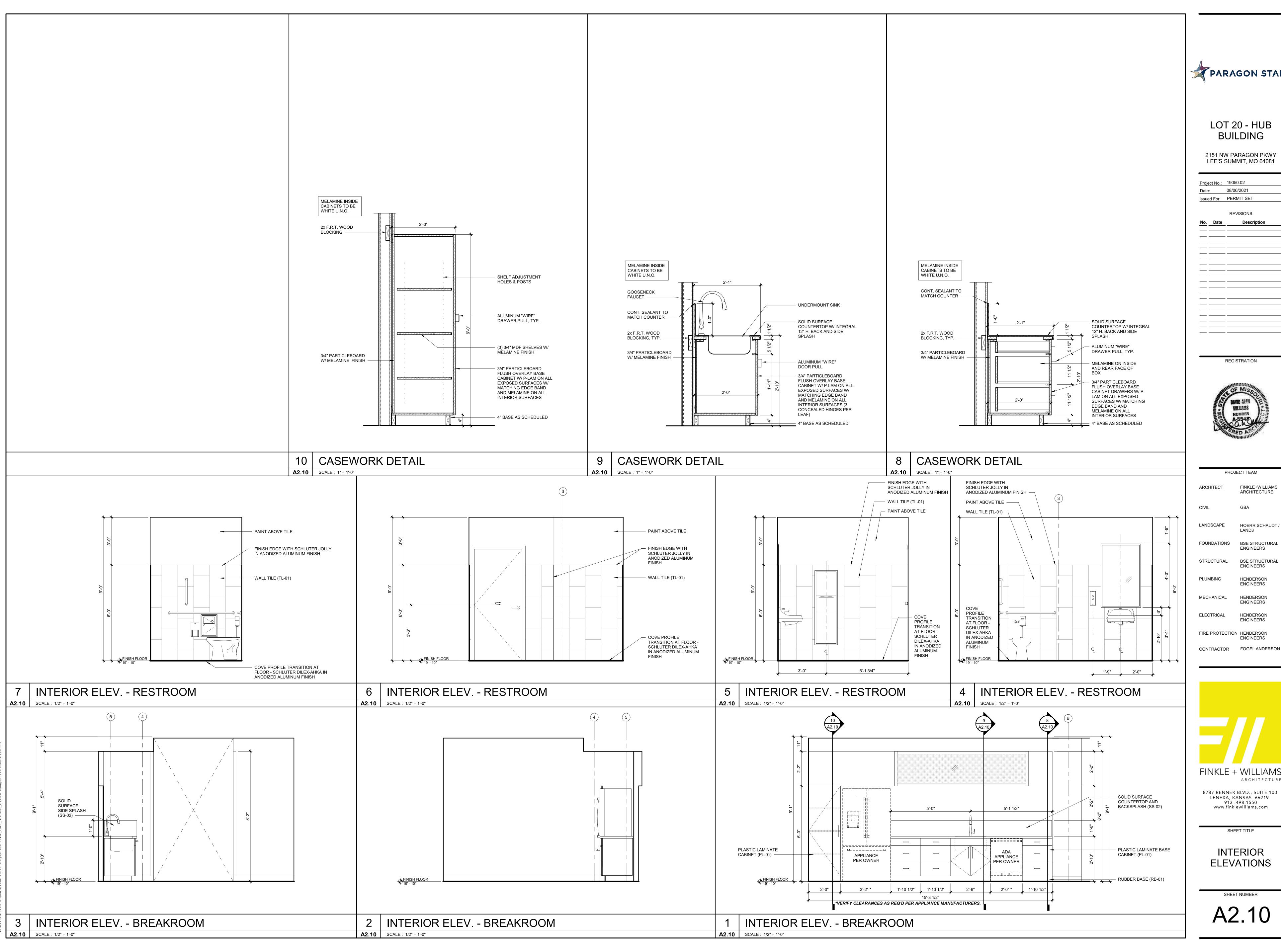
(A) REFRIGERATOR - PER OWNER

(B) ADA DISHWASHER - PER OWNER

OWNER PROVIDED, CONTRACTOR-INSTALLED APPLIANCES AS NOTED BELOW.

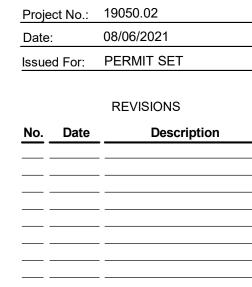
2 ENLARGED PLAN - ACCESSORIES







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REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE HOERR SCHAUDT / BSE STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON

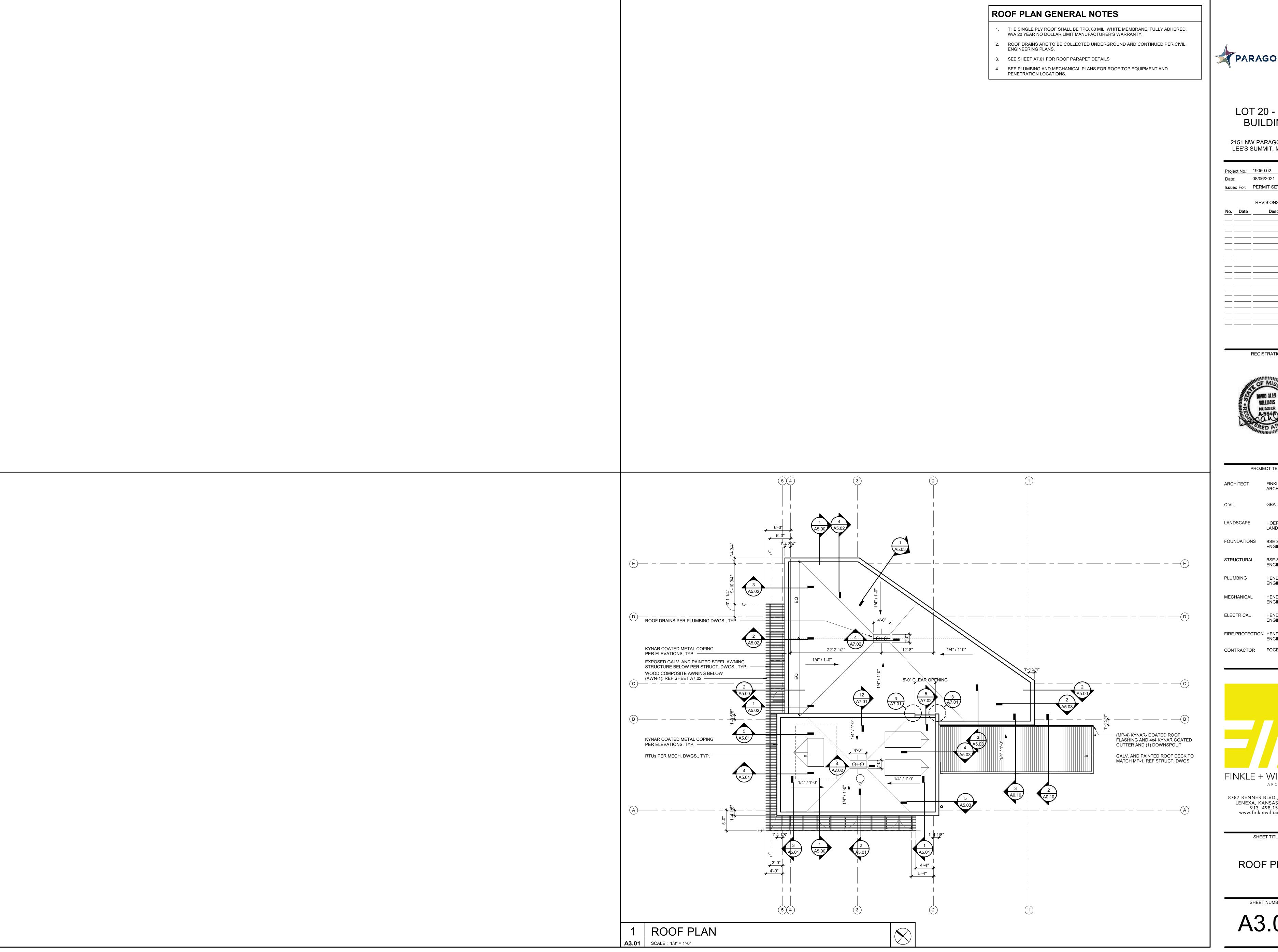
> FINKLE + WILLIAMS ARCHITECTURE

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SHEET TITLE

INTERIOR **ELEVATIONS** 

SHEET NUMBER A2.10

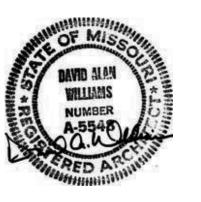




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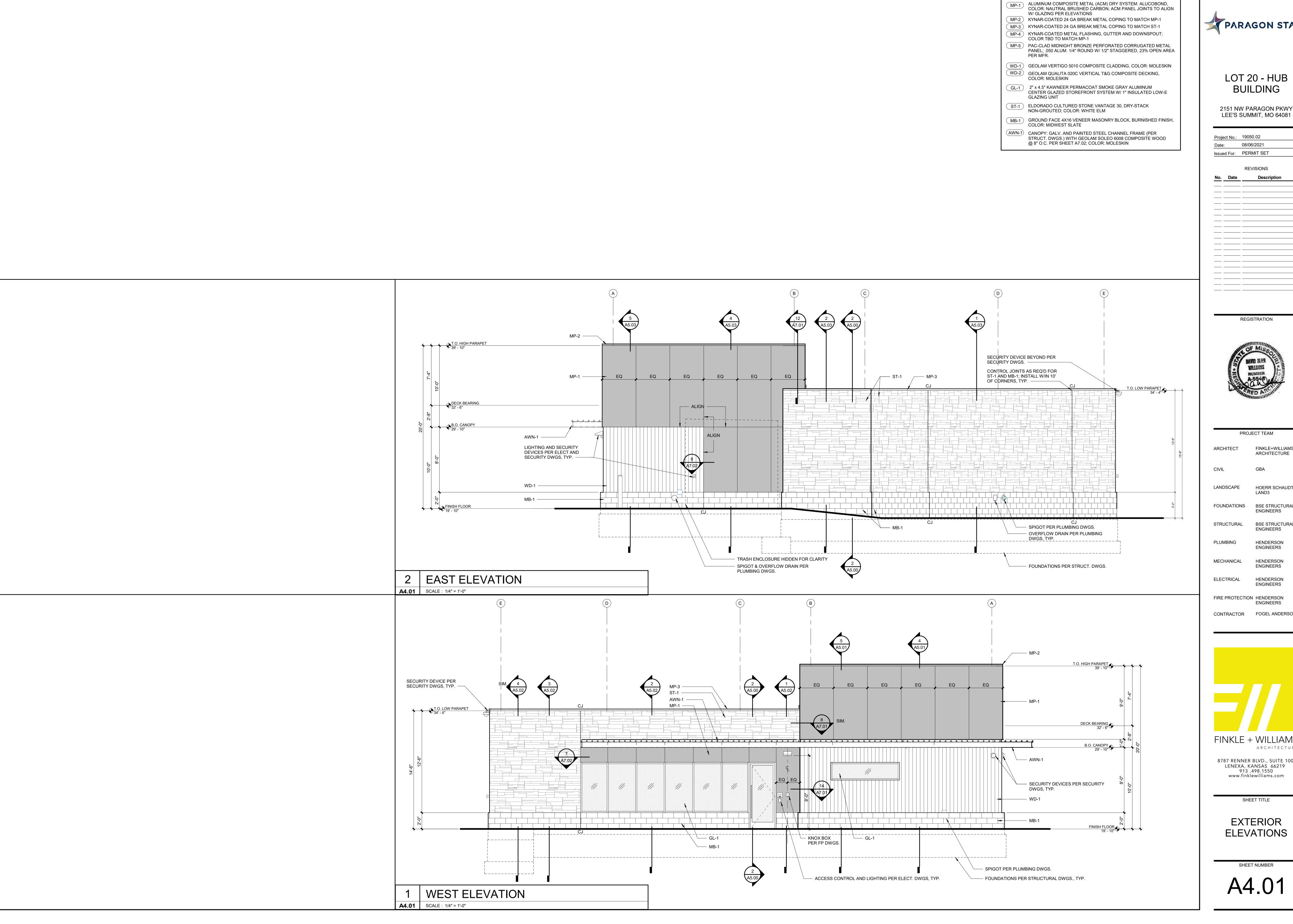
PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL **BSE STRUCTURAL ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** CONTRACTOR FOGEL ANDERSON



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SHEET TITLE

**ROOF PLAN** 





EXTERIOR MATERIAL LEGEND

LOT 20 - HUB BUILDING

2151 NW PARAGON PKWY

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REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE HOERR SCHAUDT / LANDSCAPE FOUNDATIONS BSE STRUCTURAL **ENGINEERS** 

BSE STRUCTURAL

**ENGINEERS** 

HENDERSON **ENGINEERS** MECHANICAL HENDERSON

HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON **ENGINEERS** 

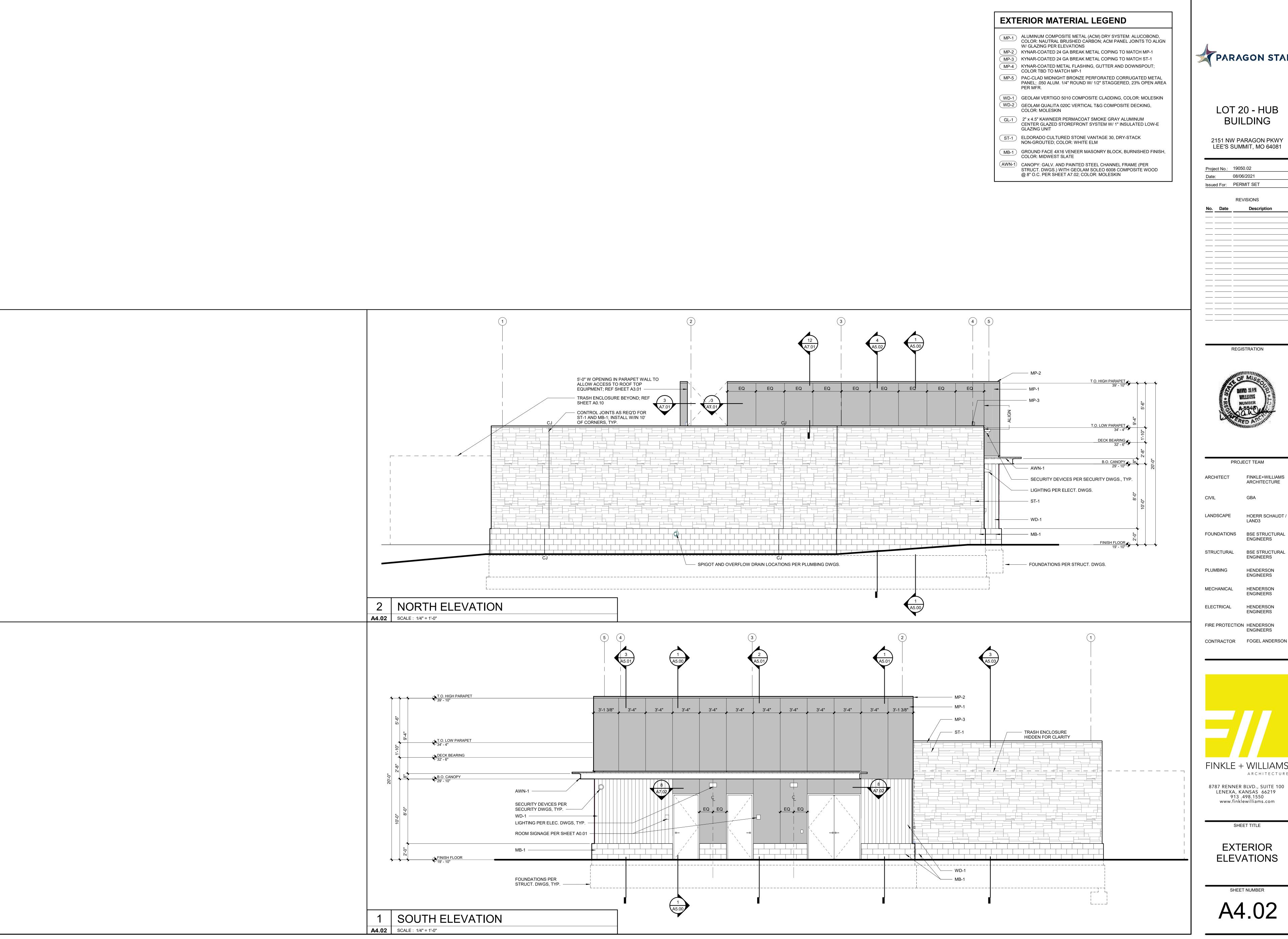
CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS ARCHITECTURE

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SHEET TITLE

**EXTERIOR ELEVATIONS** 





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PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE LANDSCAPE HOERR SCHAUDT /

FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** 

> HENDERSON **ENGINEERS**

> HENDERSON **ENGINEERS**

MECHANICAL HENDERSON

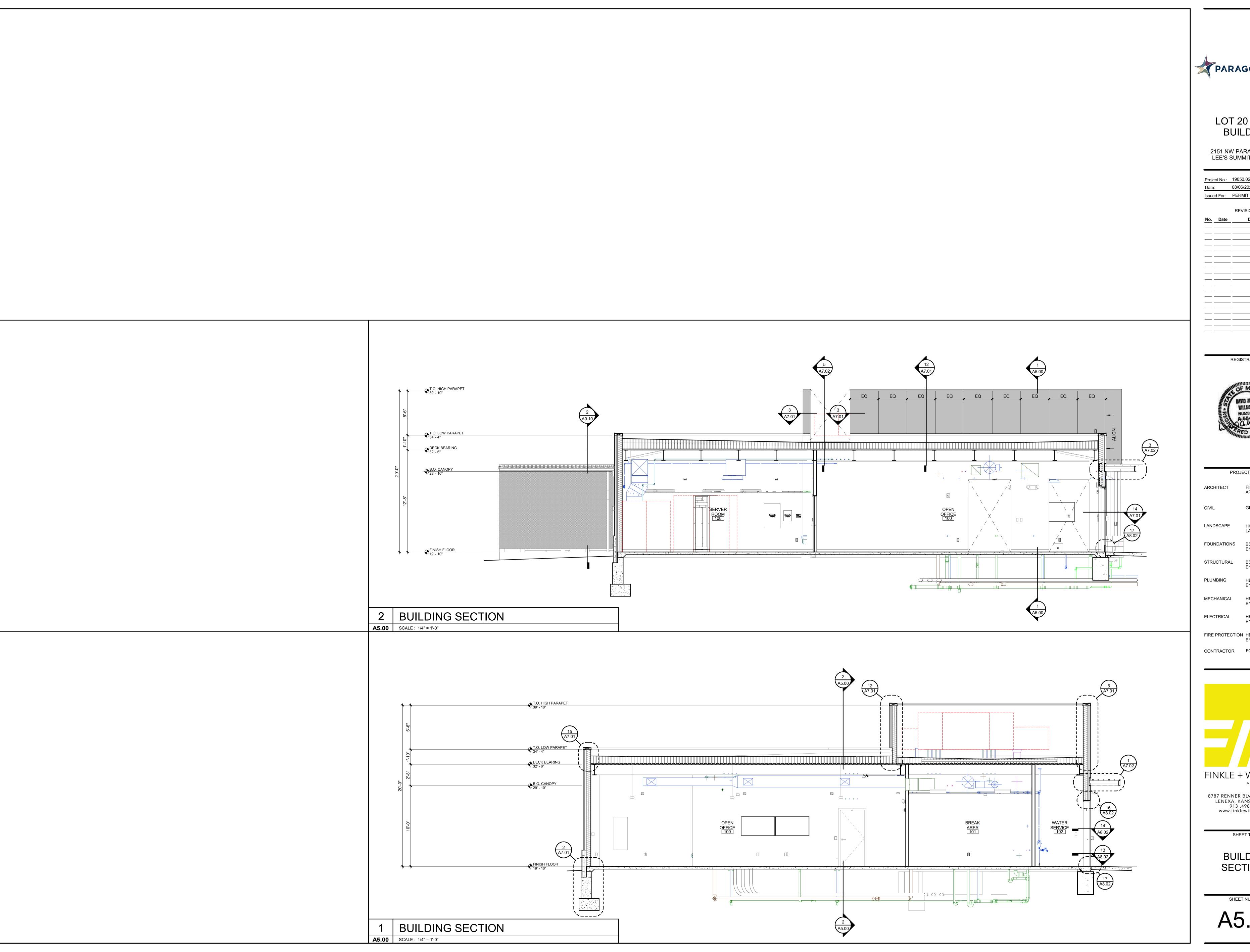
FIRE PROTECTION HENDERSON

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SHEET TITLE

**EXTERIOR ELEVATIONS** 





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REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECTURE ARCHITECT

LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL **ENGINEERS** HENDERSON

**ENGINEERS** HENDERSON MECHANICAL

ELECTRICAL HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON ENGINEERS CONTRACTOR FOGEL ANDERSON

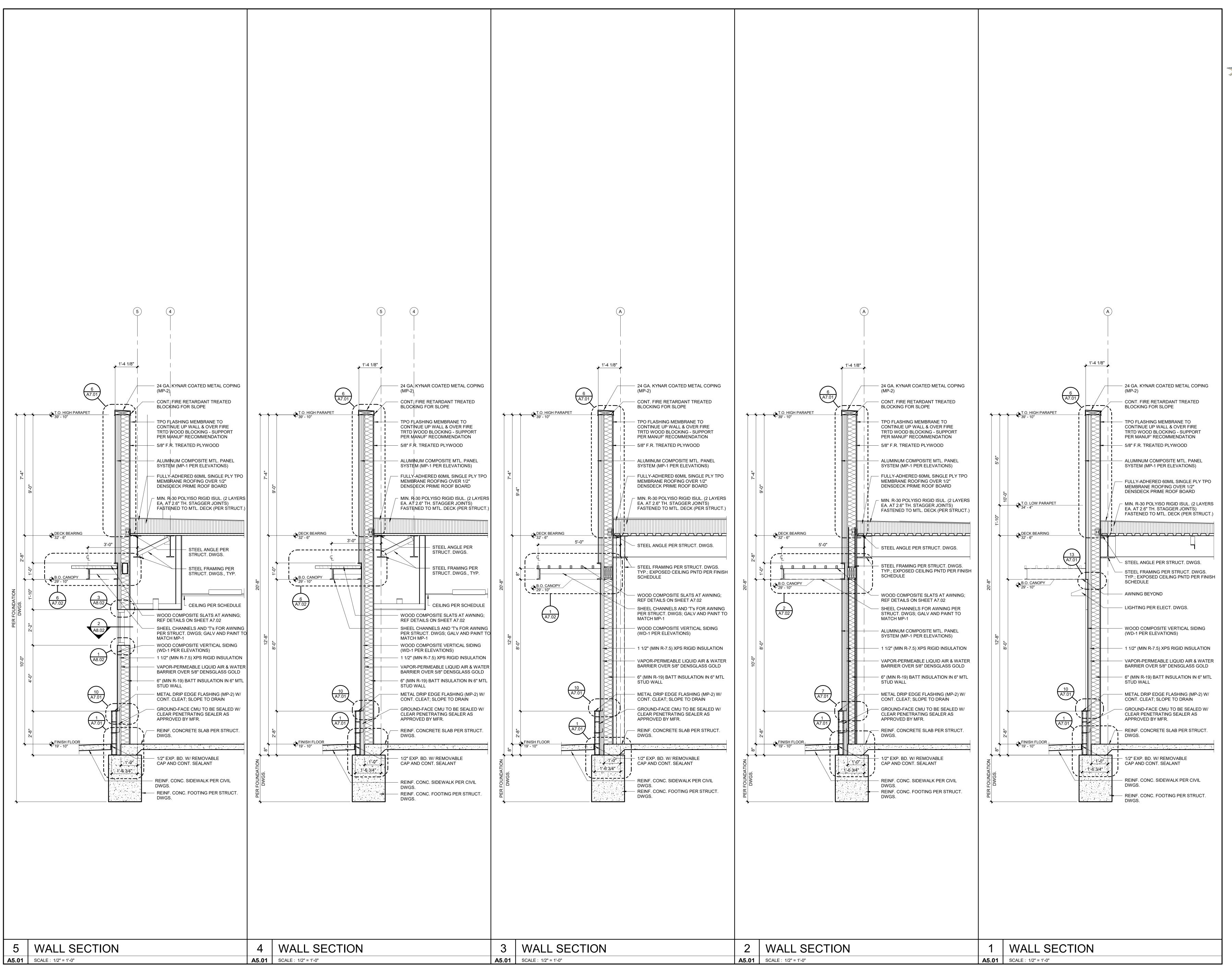
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SHEET TITLE

BUILDING SECTIONS

A5.00





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REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE CIVIL HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON



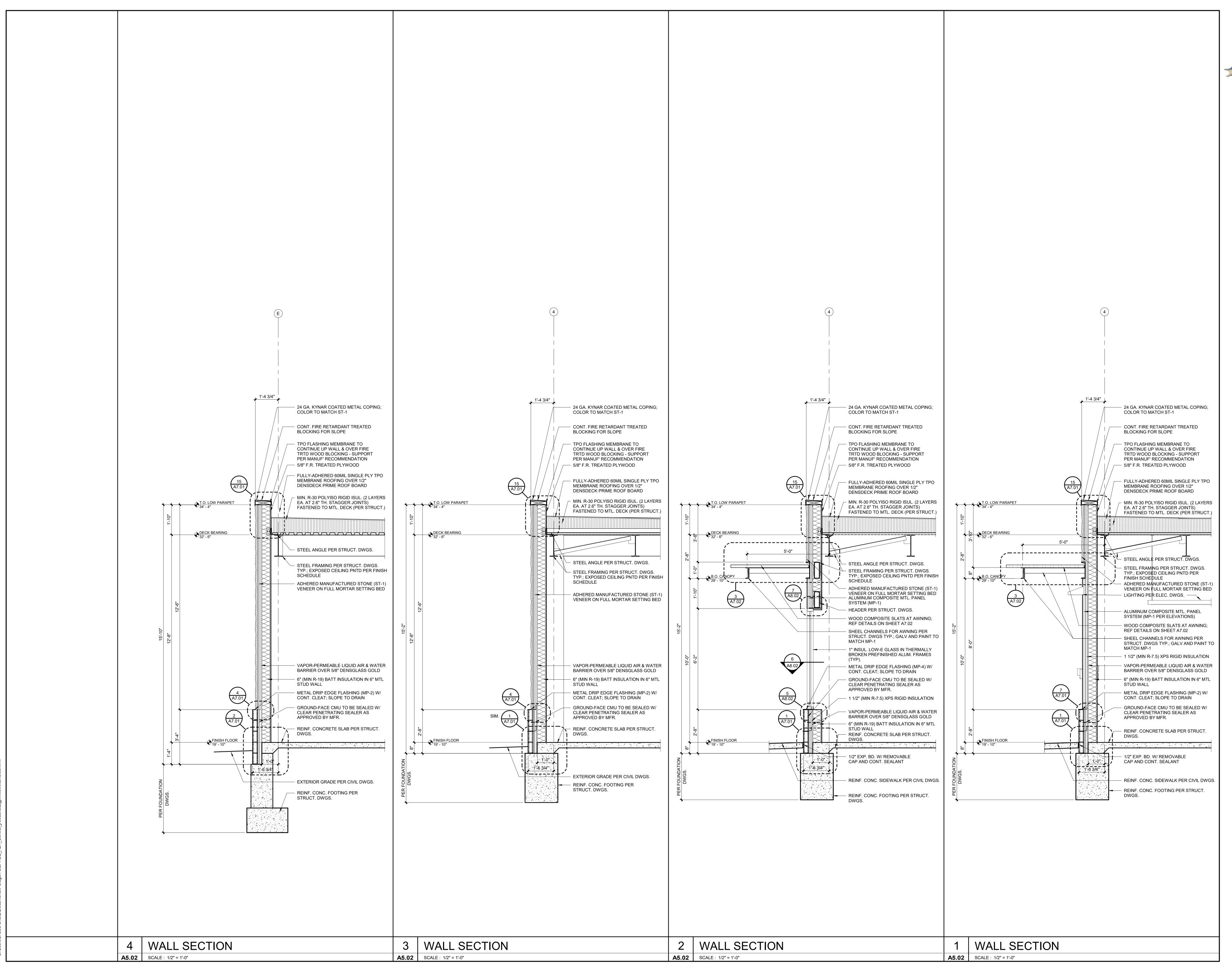
CONTRACTOR FOGEL ANDERSON

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SHEET TITLE

WALL SECTIONS

SHEET NUMBER A5.01





2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081

Project No.: 19050.02

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No. Date Description

REGISTRATION



PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

PLUMBING HENDERSON ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON



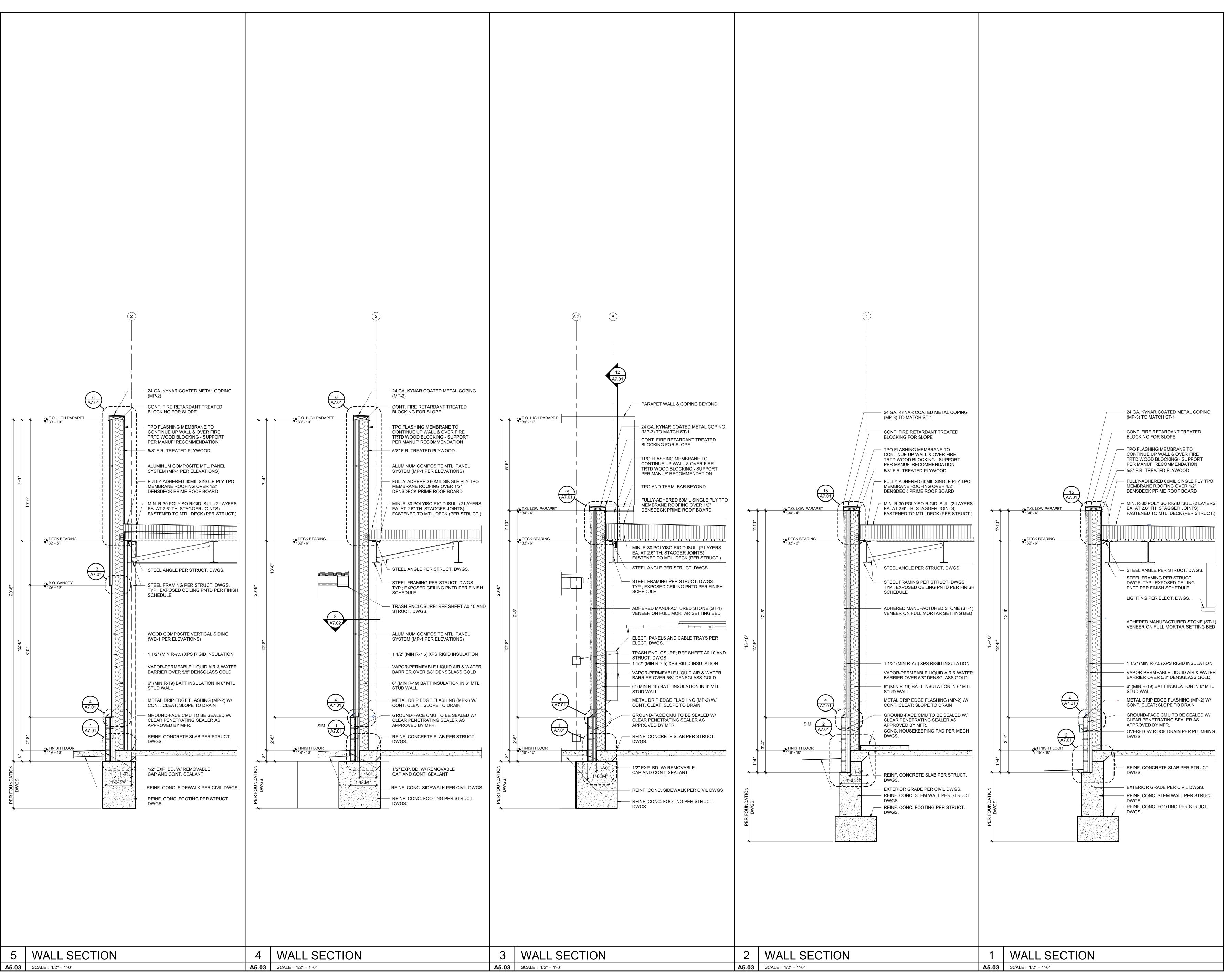
87 RENNER BLVD., SUITE 100

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SHEET TITLE

WALL SECTIONS

A5.02





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PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

CIVIL GBA

LANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL ENGINEERS

MECHANICAL HENDERSON ENGINEERS

ELECTRICAL HENDERSON ENGINEERS

FIRE PROTECTION HENDERSON

HENDERSON ENGINEERS

PLUMBING

ENGINEERS

CONTRACTOR FOGEL ANDERSON

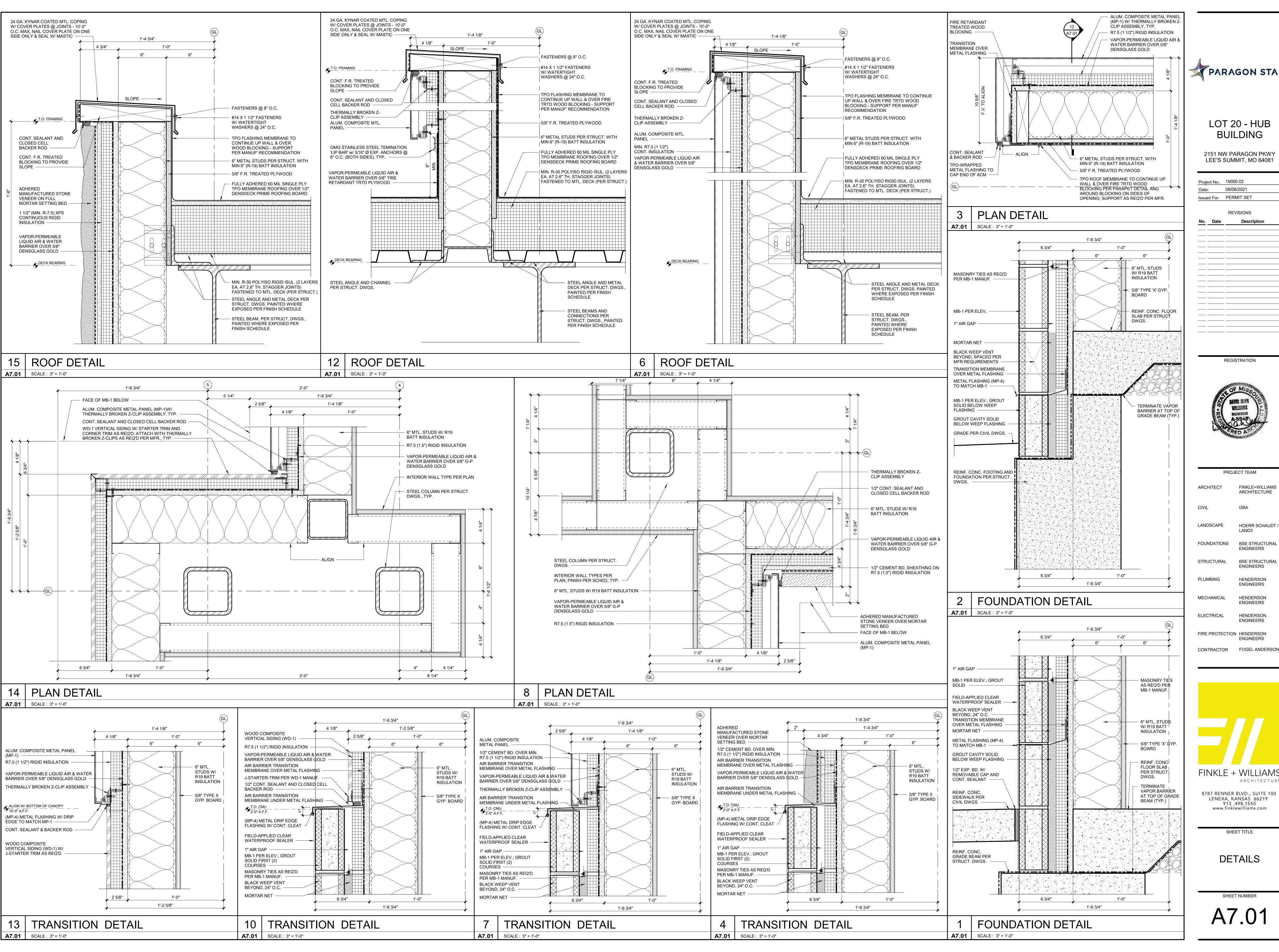


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SHEET TITLE

WALL SECTIONS

A5.03



LOT 20 - HUB BUILDING

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PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE LANDSCAPE HOERR SCHAUDT / **FOUNDATIONS** BSE STRUCTURAL **ENGINEERS** 

**ENGINEERS** PLUMBING HENDERSON **ENGINEERS** MECHANICAL HENDERSON

BSE STRUCTURAL

ELECTRICAL HENDERSON **ENGINEERS** 

FIRE PROTECTION HENDERSON **ENGINEERS** 

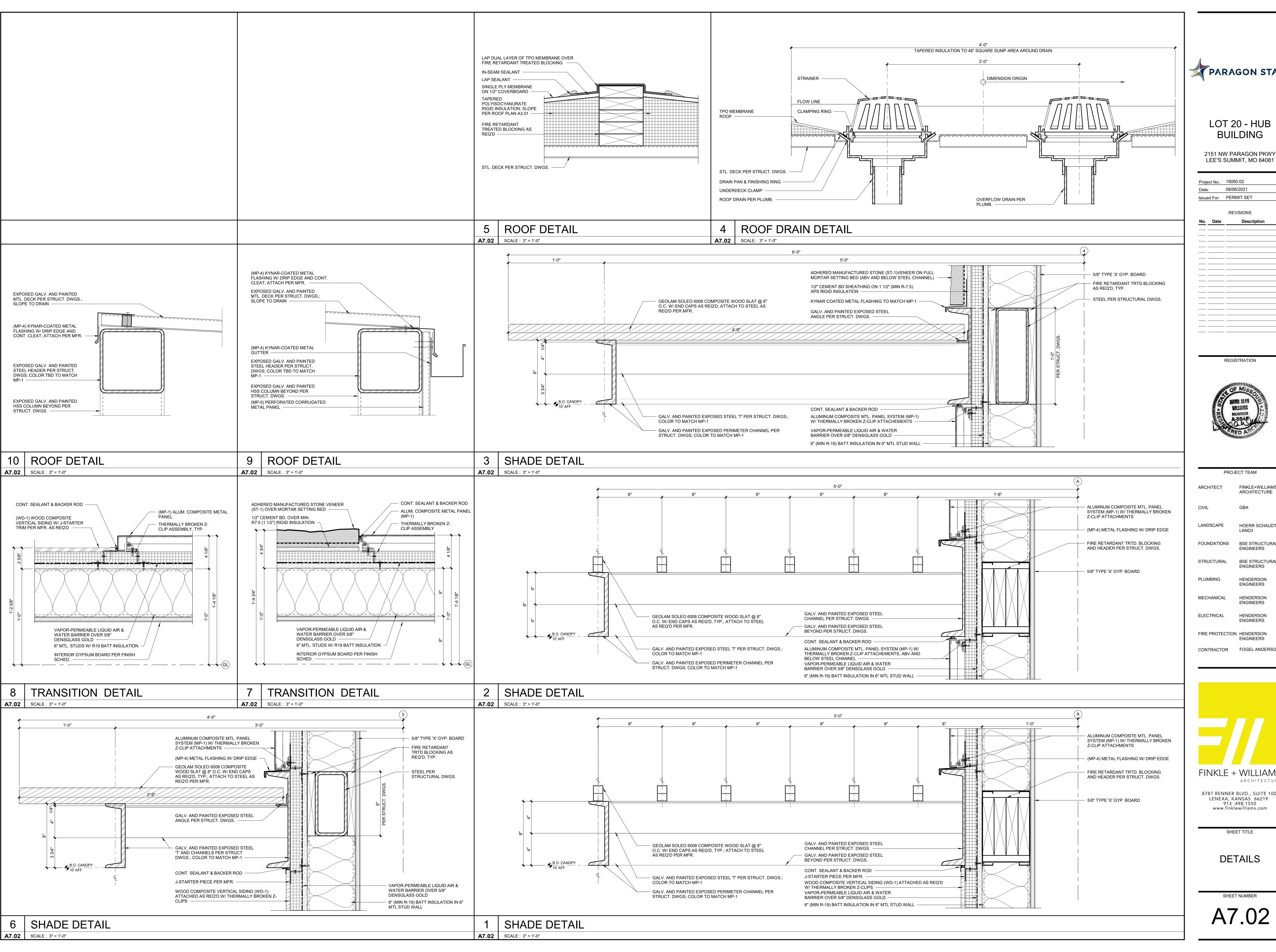
FINKLE + WILLIAMS ARCHITECTURE

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SHEET TITLE

**DETAILS** 

A7.01



LOT 20 - HUB BUILDING

Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET

REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS ARCHITECT ARCHITECTURE GBA

HOERR SCHAUDT /

BSE STRUCTURAL

**ENGINEERS** BSE STRUCTURAL **ENGINEERS** 

> HENDERSON **ENGINEERS**

HENDERSON **ENGINEERS** 

HENDERSON **ENGINEERS** 

CONTRACTOR FOGEL ANDERSON

**ENGINEERS** 

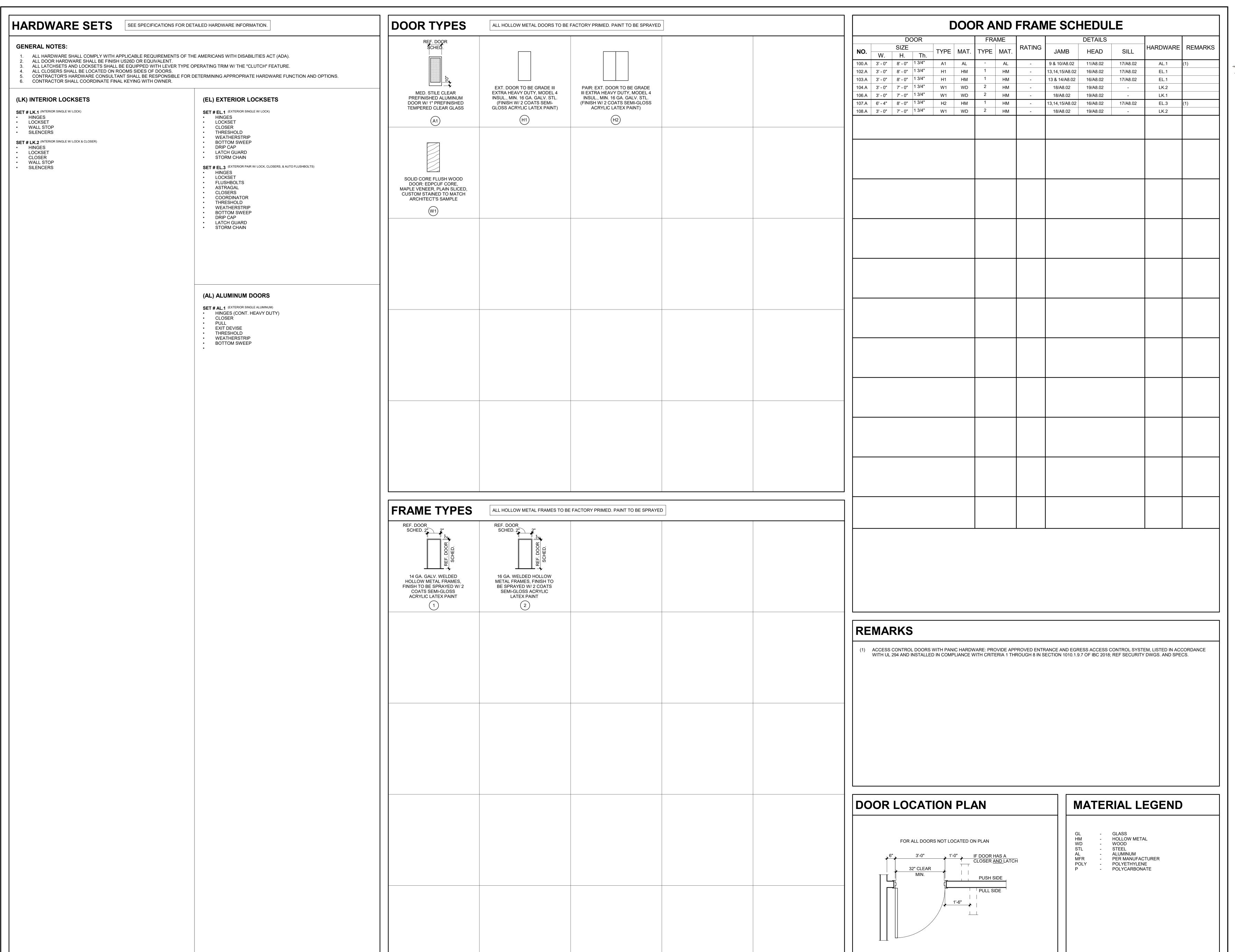
FINKLE + WILLIAMS ARCHITECTURE

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SHEET TITLE

**DETAILS** 

A7.02





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REGISTRATION

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PROJECT TEAM

ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

ANDSCAPE HOERR SCHAUDT / LAND3

FOUNDATIONS BSE STRUCTURAL ENGINEERS

STRUCTURAL BSE STRUCTURAL

PLUMBING HENDERSON ENGINEERS

CHANICAL HENDERSON ENGINEERS

ELECTRICAL

ENGINEERS

FIRE PROTECTION HENDERSON ENGINEERS

HENDERSON

CONTRACTOR FOGEL ANDERSON

FINKLE + WILLIAMS
ARCHITECTURE

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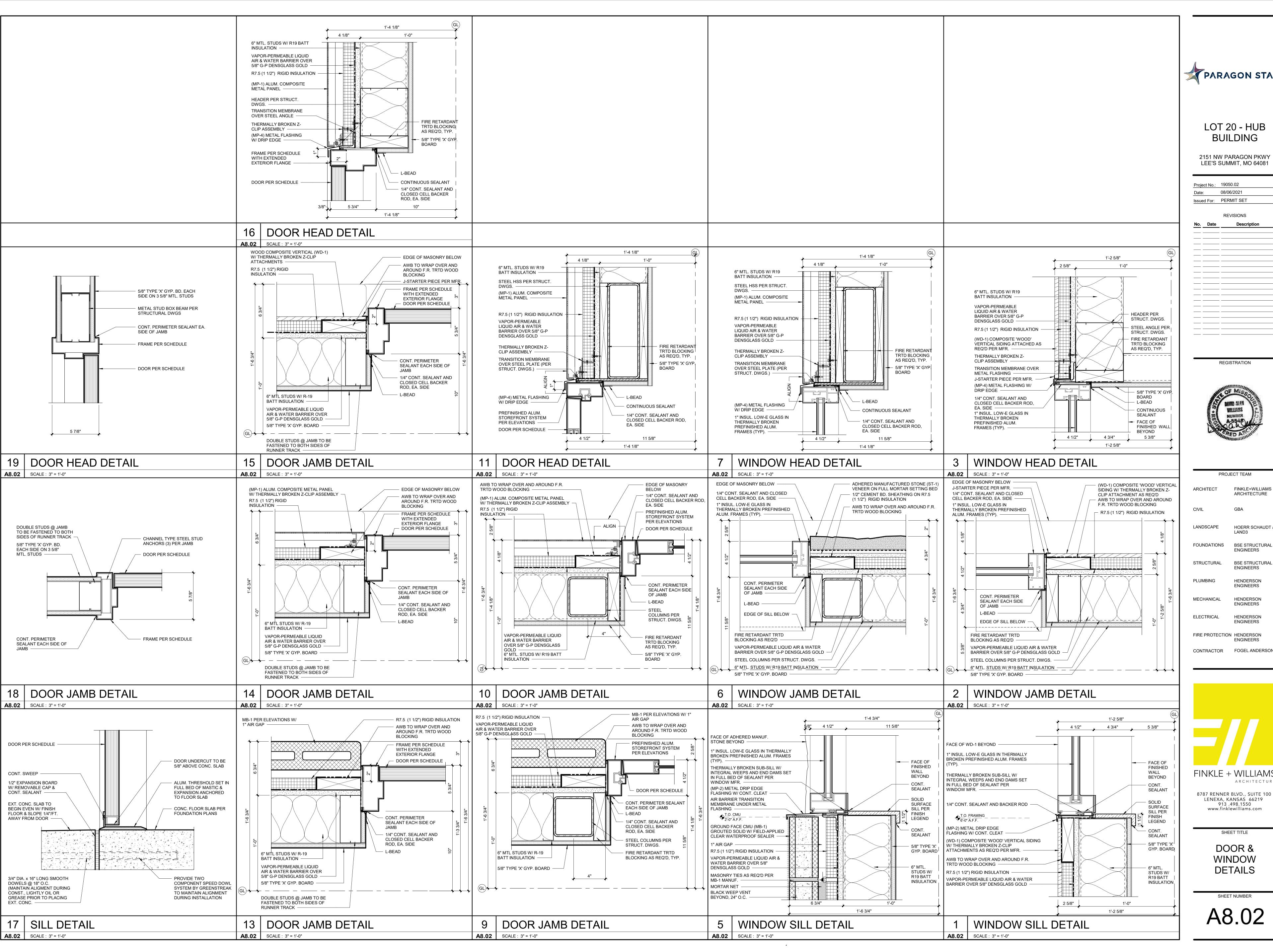
SHEET TITLE

DOOR

DOOR SCHEDULE AND DETAILS

SHEET NUMBER

A8.01



LOT 20 - HUB BUILDING

2151 NW PARAGON PKWY

Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET REVISIONS

REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE GBA LANDSCAPE HOERR SCHAUDT / LAND3 **FOUNDATIONS** BSE STRUCTURAL **ENGINEERS** STRUCTURAL BSE STRUCTURAL **ENGINEERS PLUMBING** HENDERSON **ENGINEERS MECHANICAL** HENDERSON **ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** 



**ENGINEERS** 

FINKLE + WILLIAMS ARCHITECTURE

8787 RENNER BLVD., SUITE 100

LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

SHEET TITLE

DOOR & **WINDOW DETAILS** 

SHEET NUMBER A8.02

# **ROOM FINISH LEGEND**

## **FLOOR FINISHES**

### CONCRETE

SC-01: SEALED CONCRETE W/ASHFORD FORMULA SEALER WITH METZGER/MCGUIRE RE 88 SEMI-RIGID POLYUREA OR EQUAL FLOOR JOINT FILLER.
 PC-01: POLISHED CONCRETE FLOOR GRINDED, HONED, AND POLISHED TO 'SURFACE CREAM FINISH.' METZGER/MCGUIRE RE 80 SEMI-RIGID POLYREA OR EQUAL FLOOR JOINT FILLER TO BE USED TO FILL ALL FLOOR JOINTS. REFERENCE PROJECT SPECIFICATIONS. INITIAL PASS TO BE DONE PRIOR TO WALL CONSTRUCTION & FLOOR TO BE PROTECTED WITH MASONITE FOR THE DURATION OF CONSTRUCTION. REFERENCE 03 3555 POLISHED FLOOR FINISH SPECIFICATION.

# BASE FINISHES REFERENCE ROOM FINISH DESIGNATIONS ON FLOOR PLAN & INTERIOR ELEVATIONS FOR BASE FINISH LOCATIONS & TRANSITIONS.

- RB: .125" THERMOPLASTIC RUBBER RESILIENT WALL BASE
- RB-01: MFR: ROPPE, SIZE: 4" COVE, COLOR: 100 BLACK, NOTE: ROLL GOODS ONLY

# WALL FINISHES ALL GYPSUM BOARD WALLS PERPENDICULAR TO EXTERIOR WALL WITH WINDOWS TO RECEIVE PAINT ARE TO HAVE A LEVEL 5 DRYWALL FINISH.

- PT: ACRYLIC LATEX COATING 2 FINISH COATS OVER PRIMER
- PT-01: SHERWIN WILLIAMS, COLOR NAME, SW 7064 "PASSIVE", EGGSHELL FINISH
- EP: POLYAMIDE EPOXY COATING 2 FINISH COATS OVER PRIMER
- EP-01: SHERWIN WILLIAMS, COLOR NAME, SW 7064 "PASSIVE", SEMI-GLOSS EPOXY COATING
- T: TILE W/ MANUFACTURER'S MINIMUM RECOMMENDED GROUT JOINTS
- T-01: MFR: CAESAR CERAMICS USA, PATTERN: LINK, COLOR: HOOK, SIZE: 12"x24", INSTALLATION: VERTICAL RUNNING BOND, GROUT: TEC ACCUCOLOR PLUS, LIGHT PEWTER 927

## CEILING FINISHES REFERENCE REFLECTED CEILING PLAN(S) FOR CEILING FINISH LOCATIONS & TRANSITIONS.

- AC: ACOUSTICAL CEILING
- AC-01: MFR: ARMSTRONG, PATTERN: OPTIMA SQUARE LAY-IN #3150, SIZE: 24"x24"x3/4",
- INSTALLATION: PRELUDE XL 15/16" SUSPENSION SYSTEM IN BLIZZARD WHITE
- EXP: EXPOSED CEILING (STRUCTURE AND MEP), PRIMED AND PAINTED
- **EXP-01**: LATEX DRY FALL FLAT FINISH PAINT, SHERWIN WILLIAMS SW 2849 "WESTCHESTER GRAY"
- GB: GYPSUM WALLBOARD W/ FLAT FINISH ACRYLIC LATEX PAINT 2 FINISH COATS OVER PRIMER
- GB-01: SHERWIN WILLIAMS SW 7006 "EXTRA WHITE"

## CASEWORK FINISHES REFERENCE ELEVATIONS AND CASEWORK DETAILS FOR FINISH LOCATIONS

- **PL**: HIGH PRESSURE LAMINATE
- PL-01: MFR: WILSONART, PATTERN: 15603-31 SESAME VELVET ELM
- SS: SOLID
- SS-01: MFR: WILSONART, COLOR: 9222SS TITANIUM GREY, MATTE FINISH
- SS-02: MFR: FORMICA, COLOR: 748 WHITE RENEW, MATTE FINISH

# MISCELLANEOUS FINISHES

- CG: CORNER GUARD
- **CG-01:** MFR: KOROGARD, TYPE: GS SERIES STAINLESS STEEL CORNER GUARD # GS20, SIZE: 2" WING, FULL HEIGHT, FINISH: S6, NOTE: SURFACE MOUNTED

# **GENERAL FINISH NOTES**

- 1. PAINT ALL HOLLOW METAL DOORS AND FRAMES W/ 2 COATS OF SEMI-GLOSS, ACRYLIC LATEX PAINT TO MATCH PT-01 SOLID SURFACE WINDOW SILLS TO BE SS-01
- ROOM FINISH SCHEDULE IS FOR GENERAL COORDINATION OF FINISHES. REFERENCE ROOM FINISH PLANS, INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR COORDINATION OF ALL FINAL FINISHES.
- ALL SOFFITS TO BE PAINTED SHERWIN WILLIAMS #SW7006 "EXTRA WHITE" UNLESS NOTED OTHERWISE
  5. PAINT METAL WALL-MOUNTED ACCESS DOORS, GRILLES AND UNFINISHED COVER PLATES TO MATCH ADJACENT WALL SURFACE.

ROOM FINISH SCHEDULE											
ROOM		WALLS						MILLWORK			
NO.	NAME	FLOOR	BASE	N	E	S	W	CEILING	TOP	BASE	REMARKS
100	OPEN OFFICE	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	EXP-01			9 OCC.
101	BREAK AREA	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	GB-01 / AC-01	SS-02	PL-01	ANCILLARY
102	WATER SERVICE	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	-			
103	ELECTRICAL	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	-			
104	RESTROOM	PC-01	-	TL-01 / EP-01	TL-01 / EP-01	TL-01 / EP-01	TL-01 / EP-01	GB-01			ANCILLARY
105	HALL	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	GB-01			
106	JANITOR	PC-01	RB-01	EP-01	EP-01	EP-01	EP-01	-			ANCILLARY
107	STORAGE	PC-01	RB-01	EP-01	EP-01	EP-01	EP-01	-			2 OCC.
108	SERVER ROOM	PC-01	RB-01	PT-01	PT-01	PT-01	PT-01	EXP-01			ANCILLARY



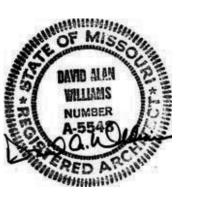
LOT 20 - HUB BUILDING

2151 NW PARAGON PKWY

LEE'S SUMMIT, MO 64081

Date	:	08/06/2021			
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		REVISIONS			
No.	Date	Description			
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REGISTRATION



PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA
ANDSCAPE	HOERR SCHAUDT LAND3
OUNDATIONS	BSE STRUCTURAL ENGINEERS
STRUCTURAL	BSE STRUCTURAL ENGINEERS
PLUMBING	HENDERSON ENGINEERS
MECHANICAL	HENDERSON ENGINEERS
ELECTRICAL	HENDERSON ENGINEERS
FIRE PROTECTION	HENDERSON ENGINEERS

CONTRACTOR FOGEL ANDERSON



8787 RENNER BLVD., SUITE 100

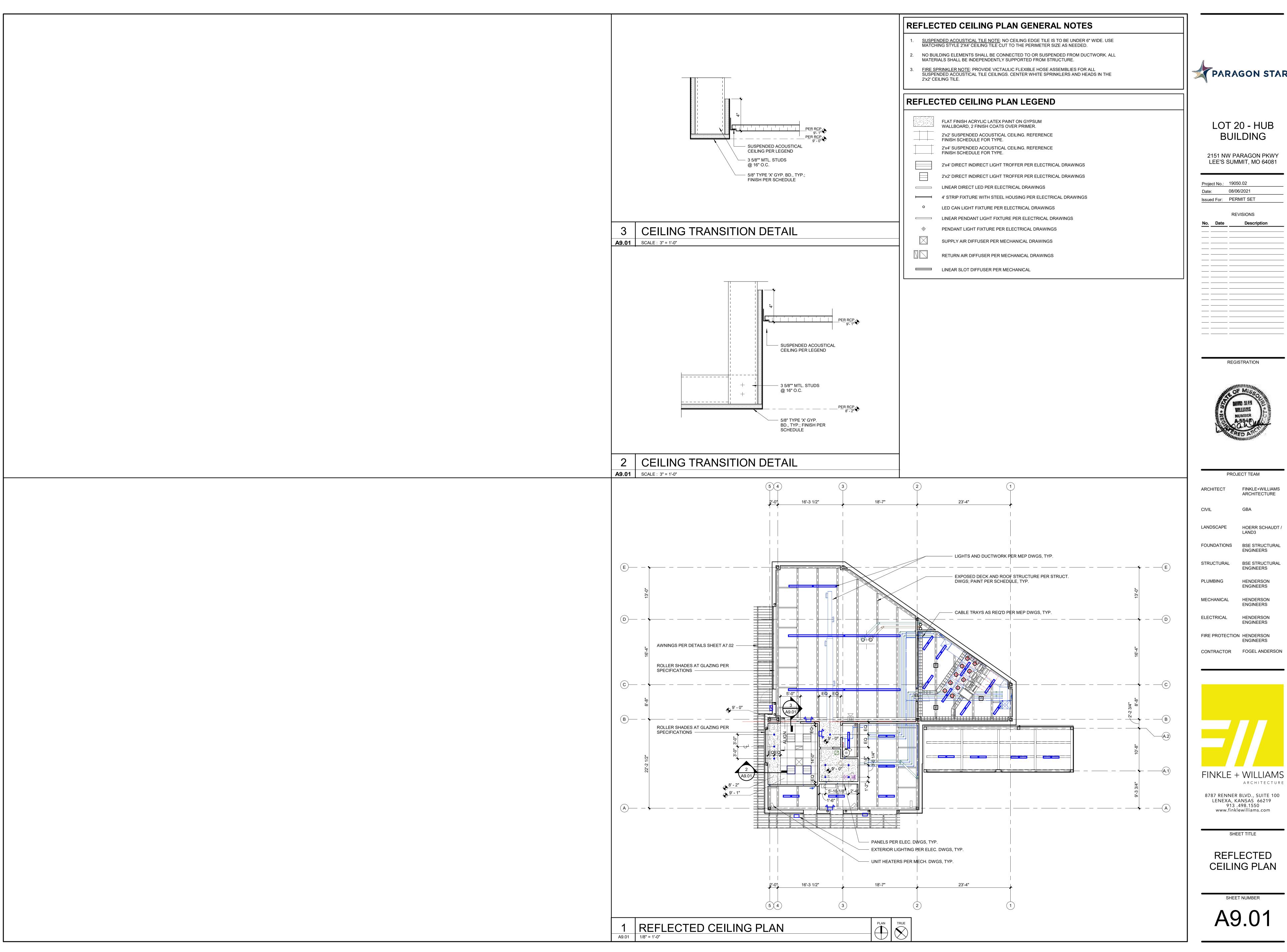
3787 RENNER BLVD., SUITE 10 LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

SHEET TITLE

FINISH SCHEDULE AND DETAILS

SHEET NUMBER

**\8.10** 



LOT 20 - HUB BUILDING

Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET

REVISIONS

REGISTRATION



PROJECT TEAM FINKLE+WILLIAMS

BSE STRUCTURAL

**ENGINEERS** HENDERSON

HENDERSON

HENDERSON **ENGINEERS** 

CONTRACTOR FOGEL ANDERSON

ARCHITECTURE

SHEET TITLE

REFLECTED **CEILING PLAN** 

SHEET NUMBER

A9.01

A. IF ANY UNIT PRICES ARE REQUESTED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL FURNISH A PRICE INCLUDING ALL NECESSARY MATERIAL, TAXES, FREIGHT, MARKUP, DELIVERY, LABOR, OVERHEAD, AND PROFIT PER UNIT OF MEASUREMENT FOR WORK THAT MAY BE ADDED OR DEDUCTED FROM THE CONTRACT SUM IF ESTIMATED QUANTITIES OF WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS ARE INCREASED OR DECREASED.

CHANGE ORDERS A. WHEN CHANGES TO THE CONTRACT SUM OR SCHEDULE ARE NECESSARY, CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF THE PROPOSED CHANGE ORDER AND SUPPORTING DOCUMENTATION TO THE ARCHITECT FOR REVIEW. BEFORE PROCEEDING WITH WORK RELATED TO CHANGE ORDERS, CONTRACTOR SHALL OBTAIN OWNER'S WRITTEN APPROVAL.

4. PAYMENT APPLICATIONS A. PRIOR TO SUBMITTAL OF EACH FORMAL MONTHLY PAYMENT APPLICATION, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AN ELECTRONIC DRAFT OF THE PROPOSED PAYMENT APPLICATION WITH A SCHEDULE OF VALUES INDICATING THE ESTIMATED PERCENT COMPLETE IN EACH CATEGORY. FOLLOWING REVIEW AND ADJUSTMENT (IF ANY) OF THE DRAFT, CONTRACTOR SHALL

SCHEDULE OF VALUES, AND LIEN WAIVERS FOR ARCHITECT'S REVIEW.

 CONTRACTOR SHALL PREPARE AND SUBMIT SUBMITTALS REQUIRED BY INDIVIDUAL SPEC SECTIONS ELECTRONICALLY, EMAILED OR ONLINE PROJECT MANAGEMENT SOFTWARE, FOR ARCHITECT'S REVIEW. PHYSICAL SAMPLES SHOULD BE DELIVERED TO THE ARCHITECT'S OFFICE

SUBMIT AN ELECTRONIC COPY OF THE PROPERLY EXECUTED PAYMENT APPLICATION,

PROCESSING TIME: INITIAL REVIEW: MIN. 10 DAYS RESUBMITTAL REVIEW (AS REQUIRED): MIN. 5 DAYS

CERTIFICATES AND CERTIFICATIONS SUBMITTALS: INCLUDES SIGNATURE OF ENTITY RESPONSIBLE FOR PREPARING CERTIFICATION IPROVIDE DIGITAL SIGNATURE ON ELECTRONICALLY SUBMITTED CERTIFICATES AND CERTIFICATIONS WHERE INDICATED] DELEGATED-DESIGN SERVICES CERTIFICATION: IN ADDITION TO OTHER REQUIRED SUBMITTALS, SUBMIT DIGITALLY SIGNED PDF ELECTRONIC FILE, SIGNED AND SEALED BY

THE RESPONSIBLE DESIGN PROFESSIONAL BIM INCORPORATION [BY CONTRACTOR] IF REQUIRED BY OWNER. CONTRACTOR'S SUBMITTAL REVIEW: CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT. 1. ARCHITECT WILL NOT REVIEW SUBMITTALS THAT DO NOT HAVE CONTRACTOR'S REVIEW AND APPROVAL

A. THE OWNER SHALL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM CODE-REQUIRED "SPECIAL INSPECTIONS" AND QUALITY CONTROL TESTING. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING TIMES FOR TESTS, INSPECTIONS, AND OBTAINING SAMPLES AND NOTIFYING TESTING AGENCY.

1.9 REFERENCE STANDARDS A. CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE MOST RECENT STANDARDS IN EFFECT AS OF THE DATE OF THE CONSTRUCTION DOCUMENTS, UNLESS INDICATED

A. PUNCHLIST - PRIOR TO SCHEDULING A SUBSTANTIAL COMPLETION WALK-THROUGH TO DEVELOP A PUNCHLIST OF ITEMS REQUIRING COMPLETION, PROJECT SHALL BE FINAL CLEANED, TOUCH-UP PAINTED, AND DAMAGED CEILING TILE REPLACED. UPON ARRIVAL, IF THE ARCHITECT DETERMINES THE PROJECT IS NOT READY FOR WALK-THROUGH, THE PUNCHLIST SHALL BE RESCHEDULED. 1. WHEN THE CONTRACTOR CONSIDERS THE PUNCHLIST ITEMS FULLY COMPLETED, A FINAL WALK-THROUGH SHALL BE SCHEDULED TO REVIEW THE COMPLETED

PRIOR TO PROJECT COMPLETION, CONTRACTOR SHALL SUBMIT/COMPLETE THE ONE (1) SET OF CONSTRUCTION DRAWINGS NEATLY MARKED UP TO SHOW ACTUAL INSTALLATION WHERE INSTALLATION VARIES FROM THAT SHOWN ON ORIGINALLY ON THE CONSTRUCTION DOCUMENTS

2. TWO (2) COPIES OF OPERATION AND MAINTENANCE MANUALS INCLUDING SUBCONTRACTOR AND SUPPLIER CONTACT INFORMATION, MAINTENANCE AND SERVICE INSTRUCTIONS. SCHEDULES, EMERGENCY INSTRUCTIONS, SPARE PARTS LISTS, WIRING DIAGRAMS, AND WARRANTY INFORMATION. 3. TRAINING OF OWNER PERSONNEL ON USE AND MAINTENANCE OF MECHANICAL,

ELECTRICAL, PLUMBING, FIRE SPRINKLER, ALARM, SECURITY, IRRIGATION, AND OTHER BUILDING SYSTEMS.

## **DIVISION 2 - SITE WORK**

SEE CIVIL AND LANDSCAPE PLANS AND SPECIFICATIONS

# **DIVISION 3 - CONCRETE**

SEE STRUCTURAL PLANS AND SPECIFICATIONS

# **DIVISION 4 - MASONRY**

# 047200 CAST STONE

SUBMITTALS: PRODUCT DATA, SAMPLES, AND SHOP DRAWINGS INDICATING DIMENSIONS. JOINT LOCATIONS, RUSTICATION, EDGE CONDITIONS, EMBED LOCATIONS, AND

B. <u>FABRICATOR</u>: A PRODUCING MEMBER OF THE CAST STONE INSTITUTE.

CAST STONE UNITS: UNITS SHALL COMPLY WITH ASTM C1364, SHALL RESIST FREEZE-HAW, SLOPE HORIZONTAL SURFACES 1:12 MINIMUM AND SHALL HAVE DRIPS ON PROJECTING ELEMENTS UNLESS NOTED OTHERWISE.

D. <u>COLOR AND TEXTURE</u>: TO BE SELECTED

E. <u>ANCHORS AND DOWELS</u>: TYPE 304 STAINLESS STEEL

INSTALLATION: UNITS SHALL BE FULLY CURED PRIOR TO INSTALLATION. INSTALL CAST STONE UNITS SET IN FULL BED OF MORTAR WITH FULL HEAD JOINTS. RAKE OUT ALL JOINTS TO MINIMUM 3/4" AND INSTALL SEALANT TO MATCH CAST STONE (COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND SHALL BE VERIFIED FROM A 12" LONG FIELD APPLIED SAMPLE PRIOR TO COMPLETE INSTALLATION).

**CLEANING AND PATCHING: EXPOSED FACES OF CAST STONE UNITS SHALL BE PROTECTED** FROM MORTAR AND STAINING DURING CONSTRUCTION. AFTER MORTAR IS THOROUGHLY SET AND CURED, CAST STONE SHALL BE CLEANED WITH A PRODUCT EXPRESSLY APPROVED FOR USE BY CLEANER MANUFACTURER AND CAST STONE MANUFACTURER EXCESSIVE STAINING AND AN UNEVEN APPEARANCE SHALL BE CAUSE FOR REJECTION. MINOR PATCHING SHALL BE ALLOWED PROVIDED PATCH CAN BE BLENDED TO MATCH UNITS. UNITS WITH SIGNIFICANT CHIPS OR BREAKAGE SHALL BE REFABRICATED.

# 042000 UNIT MASONRY ASSEMBLIES

SUBMITTALS: PRODUCT DATA FOR MASONRY UNITS AND ACCESSORIES INCLUDING THREE SAMPLES OF EACH BRICK OR CMU UNIT TO ILLUSTRATE COLOR AND TEXTURE RANGE.

MASONRY UNITS: COMPLY WITH ACI 530.1/ASCE 6/TMS 602 1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT WITH SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS. BULLNOSE UNITS FOR OUTSIDE CORNERS, DOOR AND WINDOW JAMBS, AND SILLS, UNLESS OTHERWISE INDICATED.

2. DECORATIVE CONCRETE MASONRY UNITS: ASTM C90 NORMAL WEIGHT WITH INTEGRAL WATER REPELLANT AND SPECIAL SHAPES FOR LINTELS, CORNERS JAMBS. SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS. BULLNOSE UNITS FOR OUTSIDE CORNERS, DOOR AND WINDOW JAMBS, AND SILLS, UNLESS OTHERWISE INDICATED.

CONCRETE LINTELS: PRECAST UNITS MATCHING CMU WITH REINFORCING AS INDICATED OR AS REQUIRED TO SUPPORT LOADING.

4. FACE BRICK: ASTM C 216, GRADE SW, TYPE FBS, SIZE AND COLOR PER

CONSTRUCTION DOCUMENTS.

MORTAR: ASTM C 270 PROPORTION SPECIFICATION, TYPE S ABOVE GRADE, TYPE M

GROUT: ASTM C 476 WITH A SLUMP OF 8-11 INCHES, 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM.

CUSTOM GROUT COLOR TO MATCH MAIN BODY COLOR OF MB-1

REINFORCEMENT: SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR SPECIFICATIONS

TIES AND ANCHORS: HOT-DIP GALVANIZED STEEL, TWO-PIECE, ADJUSTABLE MASONRY ENEER ANCHORS THAT ALLOW VERTICAL OR HORIZONTAL ADJUSTMENT BUT RESIST TENSION AND COMPRESSION FORCES PERPENDICULAR TO THE PLANE OF THE WALL DESIGNED FOR ATTACHMENT OVER SHEATHING TO STUDS AND ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

FLASHING: [45 MIL EPDM], [STAINLESS STEEL 0.0156 INCH THICK]

COMPRESSIBLE FILLER: PREMOLDED STRIPS ASTM 1056. GRADE 2A1 PREFORMED CONTROL JOINTS: SBR OR PVC DESIGNED TO FIT STANDARD SASH

WEEP HOLES: 1/4"-3/8"x24" COTTON OR POLYPROPYLENE ROPE. CAVITY INSULATION: POLYISOCYANURATE BOARD ASTM C 1289, TYPE 1, CLASS 2, ALUMINUM FOIL FACED

MORTAR NET: INSTALL SAWTOOTH MESH MORTAR NET IN ALL MASONRY DRAINAGE 6. FIELD-APPLIED CLEAR WATERPROOF SEALER

(UNIT MASONRY CONT.)

MIX MASONRY UNITS FROM DIFFERENT PALLETS FOR UNIFORM BLEND OF COLOR AND TEXTURE. INSTALL MASONRY UNITS W/ UNIFORM BED AND HEAD JOINTS IN FULL BED OF MORTAR WITH FULL HEAD JOINTS IN RUNNING BOND (UNLESS NOTED OTHERWISE)

KEEPING CAVITIES CLEAN OF MORTAR AND DEBRIS. TOOL MORTAR JOINTS SLIGHTLY FLASHING: INSTALL THROUGH-WALL FLASHING AND WEEP HOLES AT 24" O.C. AT ALL HELF ANGLES, LINTELS, LEDGES, AND OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER. FLASHING SHALL BE PLACED ON A SLOPING BED OF MORTAR AND SHALL EXTEND 1/4" BEYOND FACE OF MASONRY AND BE TRIMMED STRAIGHT AND TRUE. JOINTS IN FLASHING SHALL BE SEALED AND 2" HIGH DAMS SHALL BE FORMED

AT END OF FLASHING. WICKS SHALL BE TRIMMED FLUSH WITH FACE OF MASONRY. LINTELS: INSTALL LINTELS ABOVE ALL OPENINGS AND WHERE INDICATED WITH MINIMUM 8" BEARING AT EACH JAMB AND FILL CORES IN MASONRY UNDER EACH

LINTEL BEARING FULL HEIGHT OF JAMB. CLEANING: CLEAN MASONRY AS THE WORK PROGRESSES AND WHEN MORTAR IS HOROUGHLY SET AND CURED, CLEAN WITH A PROPRIETARY CLEANER APPROVED BY BRICK MANUFACTURER TO REMOVE EXCESS MORTAR

#### 044313.16 ADHERED STONE MASONRY VENEER

PRODUCT DATA FOR CULTURED STONE PRODUCTS AND ACCESSORIES THREE (3) SAMPLES OF EACH STONE TO ILLUSTRATE COLOR AND TEXTURE RANGE SHOP DRAWINGS DEPICTING PROPER INSTALLATION AND FLASHING

PROVIDE MANUFACTURERS 50-YEAR LIMITED WARRANTY

MANUFACTURED STONE VENEER: BASIS OF DESIGN: CULTURED STONE BY BORAL, REFER TO ELEVATIONS FOR COLOR, FINISH, AND LOCATIONS

1. PERFORMANCE CRITERIA: CONFORMING WITH ASTM C1670: a. COMPRESSIVE STRENGTH: >1800 PSI FOR 5 SPECIMANS AND >2100 PSI FOR INDIVIDUAL SPECIMAN (ASTM C 39 AND ASTM C 192)

BOND BETWEEN MANUFACTURED MASONRY UNIT, MORTAR AND BACKING: NOT LESS THAN 50 PSI (ASTM C177) THERMAL RESISTANCE: R-VALUE NOT LESS THAN 0.355 PER INCH (ASTM C 177) FREEZE/THAW: NO DISINTEGRATION AND < 3% WEIGHT LOSS (ASTM C 67)

WATER ABSORPTION: TESTED IN ACCORDANCE WITH UBC 15-5 9-22%

FLAMESPREAD: 25 SMOKE DEVELOPMENT: 450

UNIT WEIGHT: <15 PSF SATURATED

UV STABLE - MINERAL OXIDE PIGMENTS CERTIFICATIONS:

a. ICC ES AC 51 ACCEPTANCE CRITERIA FOR MANUFACTURED STONE VENEER

ACCESSORIES: a. INCLUDE MATCHING CORNER PIECES EXPANDED METAL LATH: 3.4 LB/SQ YARD, SELF-FURRING, DIAMOND-MESH LATH COMPLYING WITH ASTM C 847, FABRICATE FROM STRUCTURAL QUALITY, ZINC-COATED (GALVANIZED) STEEL SHEET COMPLYING WITH ASTM A 653/A 653M, G60. MESH WEEP HOLES: FREE DRAINING MESH MADE FROM POLYETHYLENE STRANDS FULL WIDTH OF HEAD JOINT AND 2 INCHES HIGH BY THICKNESS OF

STONE MASONRY, IN COLOR SELECTED FROM MFR FULL RANGE. WEEP SCREED: PVC MATERIAL MEETING ASTM D 1784 FOR PVC COMPOUNDS, COLOR SELECTED FROM MFR FULL RANGE.

GENERAL: DO NOT USE ADMIXTURES UNLESS OTHERWISE INDICATED.

DO NOT USE CALCIUM CHLORIDE USE PORTLAND CEMENT-LIME MORTAR UNLESS OTHERWISE INDICATED. POLIMER/LATEX MODIFIED PORTLAND CEMENT SETTING MORTAR COMPLYING WITH ANSI 118.4, 118.11 OR 118.15 UNLESS OTHERWISE RECOMMENDED BY MFR. NO-GROUT, DRY-STACK LOOK PER MFR.

METAL FLASHING: PROVIDE STAINLESS STEEL, TYPE 304, .4MM THICK METAL FLASHING WHERE FLASHING IS EXPOSED. FABRICATE METAL DRIP EDGES FROM STAINLESS STEEL, EXTEND AT LEAST 3" INTO WALL AND 1/2" OUT FROM WALL WITH OUTER EDGE BENT DOWN 30 DEGREES AND HEMMED.

2. FLEXIBLE FLASHING: FOR FLASHING UNEXPOSED TO EXTERIOR USE RUBBERIZED ASPHALT FLASHING NOT LESS THAN .030 INCHES THICK. INSTALL PRODUCT IN ACCORDANCE WITH MVMA INSTALLATION GUIDE FOR ADHERED MANUFACTURED STONE VENEER, ASTM C 1780 AND IN ACCORDANCE WITH

MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL/APPLY RELATED MATERIALS IN ACCORDANCE WITH TYPE OF SUBSTRATE AND MANUFACTURED STONE VENEER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL EMBEDDED FLASHING AND WEEP HOLES AT SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO DOWNWARD FLOW OF WATER IN WALL AND

AT STUD FRAMED WALLS, EXTEND FLASHING THROUGH STONE MASONRY, UP SHEATHING FACE AT LEAST 12 INCHES AND BEHIND WEATHER BARRIER. INSTALLATION OF ADHERED STONE MASONRY VENEER

INSTALL NECESSARY WEEP SCREED AT BASE OF WALL AND OVER OPENINGS INSTALL LATH OVER BUILDING INSULATION AND FASTEN IN ACCORDANCE WITH TECHNICAL EVALUATION REPORT TER 1312-01 'BORAL STONE - ADHERED MASONRY VENEER APPLICATION OVER CONIUOUS INSULATION' C. INSTALL SCRATCH COAT OVER METAL LATH 1/2"-3/4" THICK TO FULLY ENGAGE LATH, COMPLY WITH ASTM C926

COAT 100% OF THE BACKS OF STONE UNITS AND FACE OF SCRATCH COAT WITH CEMENT-PASTE BOND COAT, THEN BUTTER BOTH SUFRACES WITH SETTING MORTAR. USE SUFFICIENT SETTING MORTAR, SO A SLIGHT EXCESS WILL BE FORCED OUT THE EDGES OF STONE UNITS AS THEY ARE SET. TAP UNITS INTO PLACE, COMPLETELY FILLING SPACE BETWEEN UNITS AND SCRATCH COAT. PROVIDE (2) LAYERS OF INSTALLATION OF ADHERED STONE MASONRY VENEER

CLEANING: CLEAN CULTURED STONE VENEER AS THE WORK PROGRESSES AND WHEN MORTAR IS THOROUGHLY SET AND CURED, CLEAN WITH A PROPRIETARY CLEANER APPROVED BY MANUFACTURER TO REMOVE EXCESS MORTAR

# - END DIVISION 4 -

# **DIVISION 5 - METALS**

# 051200 STRUCTURAL STEEL

SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR STRUCTURAL STEEL SPECIFICATIONS.

EXTERIOR FABRICATIONS: ALL STRUCTURAL STEEL EXPOSED TO THE EXTERIOR INCLUDING MASONRY LINTELS SHALL BE GALVANIZED AND FACTORY PRIMED READY FOR FINISH PAINTING, UNLESS NOTED OTHERWISE

2. INTERIOR FABRICATIONS: FACTORY PRIMED, UNLESS NOTED OTHERWISE.

# 055113 METAL STAIRS AND RAILINGS

SHOP DRAWINGS AND CALCULATIONS INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS SIGNED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER.

METAL STAIRS AND RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADING AND TO MATCH THE CONFIGURATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS.

1. FABRICATE ITEMS IN LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE WITH JOINTS TIGHTLY FITTED AND SECURED WITH EXPOSED JOINTS WELDED AND GROUND FLUSH AND SMOOTH.

WALL-MOUNT HANDRAIL BRACKETS: SINGLE HOLE FORMED HANDRAIL BRACKET W/ WALL FILLER AND SNAP-ON COVER (WAGNER 1929, OR SIMILAR)

EXTERIOR FABRICATIONS: GALVANIZED AND PRIME PAINTED READY FOR FINISH PAINTING, UNLESS NOTED OTHERWISE. INTERIOR FABRICATIONS: PRIME PAINTED READY FOR FINISH PAINTING

SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE FABRICATED FROM SAME MATERIAL AND FINISH AS FABRICATION UNLESS NOTED OTHERWISE. SHIM AND LEVEL FABRICATIONS AS NECESSARY. COAT CONCEALED SURFACES OF ALUMINUM FABRICATIONS IN CONTACT WITH

CONCRETE, GROUT, MASONRY, WOOD, OR DISSIMILAR METALS WITH BITUMINOUS

# 057313 GLAZED DECORATIVE METAL RAILINGS

MANUFACTURER'S STANDARD WARRANTY

# PRODUCT DATA

- END DIVISION 5 -

SHOP DRAWINGS INCLUDING PLANS, SECTIONS, AND DETAILS AT JOINTS AND PERIMETER CONDITIONS, ATTACHMENT, AND INTERFACE WITH WORK BY OTHERS. STRUCTURAL CALCULATIONS

DELEGATED DESIGN: FOR PRODUCTS INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, SEALED DRAWINGS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF KANSAS.

PRODUCTS:
1. BASIS OF DESIGN: STRUCT-U-RAIL AS MANUFACTURED BY LIVERS BRONZE CO. OR APPROVED EQUAL

MATERIALS: A. ALUMINUM: CONFORMING TO ASTM B 2212 ALLOW 6063-T52

B. STAINLESS STEEL: CONFORMING TO ASTM A666, TYPE 304

A. GLAZING: FULLY TEMPERED ASTM C 1048 KIND FT. QUALITY Q3. MONOLITHIC TEMPERED THICKNESS 1/2"-3/4" MIN. REQUIRED TO MEET ALL STRUCTURAL

REQUIREMENTS. COLOR: CLEAR, POLISHED EDGE GLASS SUPPORT BASES: STANDARD EXTRUDED ALUMINUM BASE FOR 1/2" GLASS -MODEL 810A, 3/4" GLASS - MODEL 813. TOP MOUNT OR SIDE MOUNT BASE TO 1/2" EMBEDDED STEEL PLATE (BY STEEL FABRICATOR) OR STEEL STRINGER. ALUMINUM BASE IS MOUNTED CONTINUOUS AND IS ANCHORED AT 27" O.C. FOR STEEL AND 9" O.C. FOR CONCRETE.

GLASS INFILL SHALL BE 1/2" TEMPERED OR LAMINATED GLASS, CONFORM TO SAFETY REQUIREMENTS OF ANSI Z97.1. GLASS IS GROUTED INTO ALUMINUM BASE. FITTINGS: SHALL BE STAINLESS STEEL E. HANDRAIL BRACKETS TO BE STAINLESS STELL.

D. FABRICATION: ALL METAL FABRICATION TO BE PERFORMED BY A SIGNLE SOURCE FABRICATOR.

WATERPROOFING

## **DIVISION 6 - WOOD AND PLASTICS**

061000 ROUGH CARPENTRY

SEE STRUCTURAL CONSTRUCTION DOCUMENTS FOR SPECIFICATIONS RELATED TO STRUCTURAL LUMBER, ENGINEERED WOOD PRODUCTS, PANEL PRODUCTS, FASTENERS, AND ACCESSORIES

PRODUCT DATA FOR TREATED WOOD, ENGINEERED WOOD PRODUCTS, FOAM PLASTIC SHEATHING, AND BUILDING WRAP.

**LUMBER: PROVIDE S4S, 19 PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH NOMINAL** THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY OF THE

INTERIOR PARTITION FRAMING: STANDARD, STUD, OR NO. 3 GRADE EXPOSED FRAMING: NO. 1 OR NO. 2, MISCELLANEOUS LUMBER FOR NAILERS, BLOCKING, AND SIMILAR CONSTRUCTION: STUD, OR NO. 3 GRADE

PANEL PRODUCTS: DOC PS 2. PROVIDE PLYWOOD COMPLYING WITH DOC PS 1 WHERE PLYWOOD IS INDICATED AND AS FOLLOWS: WALL SHEATHING:

PLYWOOD: EXTERIOR OR EXPOSURE 1, STRUCTURAL I, FIRE RETARDANT-TREATED ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL I GLASS-MAT GYPSUM: ASTM C 1177/C 1177M EXTRUDED POLYSTYRENE FOAM: ASTM C 578, TYPE IV WITH T&G OR SHIPLAP LONG

POLYISOCYANURATE FOAM: ASTM C 1289, TYPE I, CLASS 2, WITH ALUMINUM FOIL FACINGS. FOAM PLASTIC CORE AND FACINGS SHALL HAVE A FLAME SPREAD OF 25 OR LESS WHEN TESTED INDIVIDUALLY.

PLYWOOD: EXTERIOR OR EXPOSURE 1. STRUCTURAL I ORIENTED STRAND BOARD: EXPOSURE 1, STRUCTURAL I PLYWOOD SUBFLOORING: EXTERIOR OR EXPOSURE 1, STRUCTURAL I TELEPHONE AND ELECTRICAL EQUIPMENT BACKING BOARDS: PLYWOOD, EXPOSURE 1, C-D PLUGGED, FIRE RETARDANT TREATED, 1/2" THICK.

ROOF SHEATHING, WHERE INDICATED ON DRAWINGS

PRESERVATIVE-TREATED MATERIALS: APWA C2 LUMBER AND APWA C9 PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW. AFTER TREATMENT, KILN-DRY LUMBER TO 19 PERCENT MOISTURE CONTENT AND PLYWOOD TO 15 PERCENT. TREAT INDICATED ITEMS AND THE FOLLOWING: WOOD MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND

CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE WOOD FRAMING LESS THAN 18" ABOVE GRADE WOOD FLOOR PLATES INSTALLED OVER CONCRETE SLABS DIRECTLY IN CONTACT WITH

FIRE-RETARDANT TREATED MATERIALS: COMPLY WITH PERFORMANCE REQUIREMENTS IN AWPA C20 FOR LUMBER AND AWPA C27 FOR PLYWOOD LABELED BY TESTING AND INSPECTING AGENCY. USE INTERIOR TYPE A HIGH TEMPERATURE (HT). TREAT INDICATED ITEMS AND THE FOLLOWING: INTERIOR RATED: TELEPHONE AND ELECTRICAL EQUIPMENT BACKING BOARDS

EXTERIOR RATED: PLYWOOD SHEATHING AS DETAILED AT ROOF SOFFIT. FASTENERS: SIZE AND TYPE INDICATED, GALVANIZED WHEN EXPOSED TO WEATHER, GROUND CONTACT, OR AREAS OF HIGH HUMIDITY, STAINLESS STEEL WHEN FASTENING PRESERVATIVE-TREATED MATERIALS (CONTRACTOR SHALL CONFIRM COMPATIBILITY OF

FASTENER MATERIAL WITH PRESERVATIVE). METAL FRAMING ANCHORS: HOT-DIP GALVANIZED STEEL OF STRUCTURAL CAPACITY, BUILDING PAPER: ASPHALT SATURATED ORGANIC FELT COMPLYING WITH ASTM D 226 TYPE 1 (NO. 15 ASPHALT FELT), UNPERFORATED.

AIR BARRIERS: AIR-RETARDER SHEETING OR FLUID APPLIED COATING DESIGNED TO PREVENT WATER INSTRUSION FROM EXTERIOR TO INTERIOR BUT TO ALLOW WATER VAPOR TO PASS FROM INTERIOR TO EXTERIOR.

SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES WITH MEMBERS PLUMB. TRUE TO LINE, CUT AND FITTED. DISCARD PIECES WITH DEFECTS THAT WOULD LOWER STRENGTH OR RESULT IN UNACCEPTABLE APPEARANCE OF EXPOSED MEMBERS.

SILL-SEALER: GLASS-FIBER INSULATION, 1" THICK, COMPRESSIBLE TO 1/32".

ADHESIVE FOR FIELD GLUING PANELS TO FRAMING: APA AFG-01.

SPECIFICALLY DETAILED. COMPLY WITH MEMBER SIZES, SPACING, CONFIGURATION, AND FASTENER SIZE AND SPACING AS INDICATED ON THE STRUCTURAL DRAWINGS, BUT NOT LESS THAN REQUIRED BY APPLICABLE CODES AND AFPA WCD 1 T11. CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS AND UNDER

INSTALL STRUCTURAL MEMBER FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE

WALL STUD PARTITIONS THAT ARE PARALLEL TO FLOOR JOISTS. FRAME OPENINGS WITH TWO OR MORE STUDS AT EACH JAMB AND SUPPORT HEADERS PROVIDE DOUBLE 2x10 HEADERS WITH 1/2" PLYWOOD BETWEEN AND 2x4 BOTTOM PLATE

AT ALL DOOR AND WINDOW OPENINGS UNLESS NOTED OTHERWISE. FURNISH CONCEALED BLOCKING AND NAILERS WHERE INDICATED AND AT ALL LOCATIONS WHERE WALL HUNG ITEMS WILL REQUIRE A SUBSTRATE FOR FASTENING OR SUPPORT. INSTALL ROOF SHEATHING PERPENDICULAR TO FRAMING MEMBERS WITH ENDS STAGGERED AND SHEET ENDS OVER FIRM BEARING. PROVIDE PANELS CLIPS BETWEEN

ROOF FRAMING MEMBERS AND SOLID EDGE BLOCKING BETWEEN SHEETS. INSTALL WALL SHEATHING PERPENDICULAR TO TO WALL STUDS WITH ENDS OVER FIRM BEARING AND STAGGERED. 10. INSTALL FLOOR SHEATHING PERPENDICULAR TO FLOOR JOISTS WITH ENDS OVER FIRM

# 064023 INTERIOR ARCHITECTURAL WOODWORK

SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS.

B. <u>QUALITY ASSURANCE</u>: ARCHITECTURAL WOODWORK INSTITUTE'S "ARCHITECTURAL WOODWORK QUALITY STANDARDS"

HARDBOARD: AHA A235.4 MEDIUM DENSITY FIBERBOARD: ANSI A208.2, GRADE MD, MADE WITH BINDER CONTAINING

BEARING. GLUE AND NAIL SHEATHING TO EACH JOIST.

NO UREA FORMALDEHYDE. PARTICLEBOARD: ANSI A208.1, GRADE M-2 SOFT PLYWOOD: DOC PS 1 HARDWOOD PLYWOOD AND FACE VENEERS: HPVA HP-1, MADE WITH ADHESIVE

CONTAINING NO UREA FORMALDEHYDE HIGH PRESSURE DECORATIVE LAMINATE: NEMA LD 3 SOLID SURFACE MATERIAL: HOMOGENOUS SOLID SHEETS OF FILLED PLASTIC RESIN

**HARDWARE**: COMPLY WITH BHMA A156 HINGES: CONCEALED (EUROPEAN-TYPE) BHMA A156.9 PULLS: AS SPECIFIED ON DRAWINGS

DRAWER SLIDES: SIDE-MOUNTED, ZINC-PLATED FULL EXTENSION STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS. COMPLYING WITH BHMA A 156.9, GRADE 1 AND RATED AS FOLLOWS: BOX DRAWERS: 100lbf; FILES DRAWERS: 200 lbf, PENCIL DRAWERS: 45 lbf.

DOOR AND DRAWER LOCKS: BHMA A156.11 GROMMETS: MOLDED PLASTIC WITH CAPS; FURNISH IN COLOR AND LOCATIONS AS

HARDWARE FINISH: SATIN STAINLESS STEEL: BHMA 630 COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT FEASIBLE. DISASSEMBLE ONLY AS NEEDED FOR SHIPPING AND INSTALLING. WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCRIBING AND TRIMMING.

BACKOUT AND GROOVE BACKS OF FLAT MEMBERS, KERF BACKS OF OTHER WIDE, FLAT MEMBERS, EXCEPT WHERE ENDS WILL BE EXPOSED IN FINISHED WORK. INTERIOR STANDING AND RUNNING TRIM FOR TRANSPARENT FINISH: CUSTOM GRADE, SPECIES

WOOD CABINETS FOR TRANSPARENT FINISH:

GRADE: PREMIUM

AWI TYPE OF CABINET CONSTRUCTION: FLUSH OVERLAY VENEER MATCHING: BALANCE MATCHED VENEER SPECIES AND CUT: PER DRAWINGS, WITH VENEER ON ALL EXPOSED AND SEMIEXPOSED SURFACES

CABINET INTERIORS: BLACK MELAMINE WITH DARK VENEERS, WHITE MELAMINE FOR LIGHT VENEERS (CONFIRM WITH ARCHITECT) SHELVING AND SUPPORTS: HIGH PRESSURE LAMINATE TO MATCH MELAMINE SUPPORTED ON STAINLESS STL. PINS

AWI TYPE OF CABINET CONSTRUCTION: FLUSH OVERLAY, UNLESS NOTED OTHERWISE ON

LAMINATE CLADDING: a. VERTICAL SURFACES: HGS UNLESS NOTED BELOW ELEVATOR CABS: FIRE RATED LAMINATE WALL PANELS AND WAINSCOTING: HIGH-WEAR LAMINATE

b. HORIZONTAL SURFACES: HGS UNLESS NOTED BELOW

 RECEPTION COUNTERS AND TRANSACTION TOPS: HIGH-WEAR LAMINATE LAB, EXAM RM. AND PROCEDURE COUNTERS: CHEMICAL RESISTANT LAMINATE POSTFORMED SURFACES: HGP EDGES: HGS

CABINET INTERIORS: BLACK MELAMINE WITH DARK COLOR LAMINATES, WHITE MELAMINE WITH LIGHT COLOR LAMINATES (CONFIRM WITH ARCHITECT) SHELVING AND SUPPORTS: HIGH PRESSURE LAMINATE TO MATCH MELAMINE SUPPORTED

H. FLUSH WOOD PANELING FOR TRANSPARENT FINISH: GRADE: PREMIUM

ON STAINLESS STL. PINS

STAINING AND FINISHING.

VENEER MATCHING: SLIP AND BALANCE VENEER SPECIES AND CUT: PER DRAWINGS WITH VENEER ON ALL FACES AND PANEL PANEL MATCHING: SEQUENCE MATCHED UNIFORM SIZE SETS WITHIN EACH AREA

PANEL CONSTRUCTION: FACTORY VENEERED PANEL FACES (NO SHOP VENEERED FACES

APPLY A VINYL WASH COAT TO WOODWORK MADE FROM CLOSED-GRAIN WOOD BEFORE

PERMITTED) SHOP FINISHING OF WOODWORK: FINISH ALL WOODWORK IN THE SHOP TO SAME GRADE AS ITEMS BEING FINISHED APPLY ONE COAT OF SEALER OR PRIMER TO CONCEALED SURFACES OF WOODWORK. APPLY TWO COATS TO BACK OF PANELING.

AFTER STAINING, IF ANY, APPLY PASTE WOOD FILLER TO OPEN-GRAIN WOODS AND WIPE OFF EXCESS. TINT FILLER TO MATCH STAINED WOOD. FINISH WITH AWI SYSTEM [TR-0 SYNTHETIC PENETRATING OIL] [TR-4, CONVERSION VARNISH] [ TR-5, CATALYZED VINYL LACQUER] [TR-6, CATALYZED POLYURETHANE

064023 INTERIOR ARCHITECTURAL WOODWORK (CONT.)

DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETED, HVAC IS OPERATING, AND WOODWORK IS CONDITIONED TO PREVAILING CONDITIONS OF SPACE WHERE INSTALLED INSTALL WOODWORK LEVEL AND PLUMB AND SHIM AS REQUIRED WITH CONCEALED

SHIMS TO TOLERANCE OF 1/8"/96" AND TO COMPLY WITH REFERENCED QUALITY STANDARD FOR GRADE SPECIFIED. SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK, SEAL CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.

INSTALL TRIM WITH MINIMUM NUMBER OF JOINTS POSSIBLE USING FULL-LENGTH PIECES

TO GREATEST EXTENT POSSIBLE. STAGGER JOINTS IN ADJACENT AND RELATED

ANCHOR PANELING WITH CONCEALED PANEL-HANGER CLIPS AND BY BLIND NAILING ON BACK-UP STRIPS, SPLINE-CONNECTION STRIPS, AND SIMILAR ASSOCIATED TRIM AND

- END DIVISION 6 -

### **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

BUILDING ENVELOPE MEETING WITH ALL DIVISION 7 SUBCONTRACTORS, THE ARCHITECT, AND OWNER SHALL TAKE PLACE ONCE ALL SUBCONTRACTORS HAVE BEEN SELECTED TO ENSURE ALL PRODUCTS ARE COMPATABLE AND TO ELIMINATE ANY GAP IN SCOPE.

071326 SELF-ADHERING SHEET WATERPROOFING A. <u>SUBMITTALS:</u> PRODUCT DATA AND PRODUCT TEST REPORTS

ICENSED WATERPROOFING MANUFACTURER.

B. QUALITY ASSURANCE: MANUFACTURER QUALIFICATIONS: AUTHORIZED, APPROVED, OR

WATERPROOFING MATERIALS: BASIS OF DESIGN - CCW MIRADRI 860/861 AS MANUFACTURED BY CARLISLE COATINGS & WATERPROOFING OR APPROVED EQUAL. TO BE USED WITH MIRADRAIN DRAINAGE SYSTEM AS DETAILED BY CARLISLE DETAIL 860-2D. THIS SYSTEM SHALL BE USED ALONG THE PLAN NORTH ELEVATION WHERE FINISH GRADE IS ABOVE FINISH FLOOR, SEE CONSTRUCTION DOCUMENTS FOR MORE DETAIL.

1. RUBBERIZED ASPHALT SHEET: 60-mil (1.5 mm) THICK. SELF-ADHERING SHEET CONSISTING OF 56 mils (1.4 mm) OF RUBBERIZED ASPHALT LAMINATED TO A 4-mil (0.10 mm) THICK POLYETHYLENE FILM WITH RELEASE LINER ON ADHESIVE SIDE. ACCESSORY PRODUCTS: BASIS OF DESIGN: CCW PRODUCT LINE TO INCLUDE: SURFACE

PRIMER, MASTIC AND SEALANTS, SHEET FLASHING, LIQUID MEMBRANE, SUBSTRATE

RECOMMENDED BY WATERPROOFING MANUFACTURER. PROTECTION COURSE: BASIS OF DESIGN CCW-PROTECTION BOARD 4. PERIMETER DRAINAGE SYSTEM: BASIS OF DESIGN - CCW MIRADRAIN HC.

 D. <u>INSTALLATION:</u>
 1. PROVIDE CLEAN, DUST-FREE, AND DRY SUBSTRATES FOR WATERPROOFING REMOVE FINS, RIDGES, MORTAR, AND OTHER PROJECTIONS AND FILL HONEYCOMB, AGGREGATE POCKETS, HOLES, AND VOIDS.

PATCHING MEMBRANE, ADHESIVES, TAPE, AND METAL TERMINATION BARS

PREPARE, FILL, PRIME, AND TREAT JOINTS AND CRACKS IN SUBSTRATES BRIDGE AND COVER ISOLATION AND EXPANSION JOINTS WITH OVERLAPPING SHEET STRAPS. INVERT AND LOOSELY LAY FIRST SHEET STRIP OVER CENTER OF JOINT. FIRMLY ADHERE SECOND STRIP TO FIRST AND OVERLAP TO SUBSTRATE PREPARE, PRIME, AND TREAT INSIDE AND OUTSIDE CORNERS, TERMINATION, PROTRUSIONS, AND PENETRATIONS THROUGH WATERPROOFING ACCORDING TO ASTM D

6. APPLY PRIMER TO SUBSTRATES AT REQUIRED RATE, ALLOW TO DRY, AND INSTALL SELF

ADHERING SHEETS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND ASTM D 6135

MAINTAINING UNIFORM MINIMUM 21/2" LAP WIDTHS AND END LAPS. OVERLAP AND SEAL

SEAMS AND STAGGER END LAPS. REPAIR ANY TEARS AND VOIDS AND SLIT AND FLATTEN FISHMOUTHS AND BLISTERS. PATCH WITH SHEETS EXTENDING 6" BEYOND REPAIRED AREAS IN ALL DIRECTIONS. INSTALL PROTECTION COURSE OVER WATERPROOFING AND SECURE DRAINAGE PANELS OVER PROTECTION COURSE WITHOUT PENETRATING WATERPROOFING. LAP EDGES AND

## 072726 FLUID-APPLIED MEMBRANE AIR BARRIERS

ENDS OF GEOTEXTILE.

A. <u>SUBMITTALS:</u> PRODUCT DATA AND PRODUCT TEST REPORTS

9. PROTECT WATERPROOFING SYSTEM FROM DAMAGE DURING CONSTRUCTION.

QUALITY ASSURANCE: INSTALLER QUALIFICATIONS: AUTHORIZED, APPROVED, OR LICENSED BY MANUFACTURER. PRODUCTS: BASIS OF DESIGN: "FIRE RESIST BARRITECH VP" BY CARLISLE COATINGS AND

WATERPROOFING OR APPROVED EQUAL a. FLAME SPREAD: <25, ASTM E 84 VAPOR PERMEANCE: NOT LESS THAN 10 PERMS, ASTM E-96, METHOD B AIR PERMEANCE: <0.02 I/S\*M\*M AT 75 Pa

FASTENER SEALABILITY: NO WATER LEAKING THROUGH NAIL PENETRATIONS AFTER 24 HOURS, ASTM D 1970 WATER RESISTANCE: 55 cm COL. OF WATER FOR 5 HOURS, NO LEAKING OR WET FIRE PROPAGATION: MEETS REQUIREMENTS OF NFPA 285 IN APPROVED TESTED WALL

ASSEMBLIES, REF SHEET A0.05 FOR EXTERIOR WALL ASSEMBLY INFORMATION. ACCESSORIES: PROVIDE THE FOLLOWING PRODUCT ACCESSORIES OR APPROVED EQUALS FROM SAME MANUFACTURER AS AIR BARRIER MEMBRANE. a. DETAIL FLASHING: FOIL FACED-BUTYL OR FOIL-FACED RUBBERIZED ASPHALT FLASHING, MIN. 30 MILS THICKNESS. APPROVIED WITH AIR BARRIER MEMBRANE IN NFPA 285 TESTED

DETAIL MASTIC: SURE-SEAL LAP SEALANT TRANSITION MEMBRANE: CCW SURE-SEAL PRESSURE SENSITIVE ELASTOFORM TRANSITION MEMBRANE PRIMER: SURE-SEAL LOW VOC EPDM PRIMER REINFORCING FABRIC: DCH REINFORCING FABRIC GLASS MAT: LIQUIFIBER-W

<u>INSTALLATION:</u> AIR BARRIERS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S

FILL COMPOUND: 2-PART, NON-SAG POLYURETHANE SEALANT, CCW-703 V OR CCW-201

#### INSTALLATION INSTRUCTIONS, THE APPLICABLE ICC-ES EVALUATION REPORT AND THE APPLICABLE CODE.

WALL ASSEMBLIES.

CONTACT ADHESIVE: CCW-702-BASED

072100 THERMAL INSULATION

EXTRUDED POLYSTYRENE RIGID (XPS) BOARD INSULATION:

A. <u>SUBMITTALS:</u> PRODUCT DATA FOR EACH TYPE OF INSULATION SPECIFIED

FLAME SPREAD INDEX: 25 OR LESS SMOKE DEVELOPED INDEX: 50 OR LESS IN EXPOSED AREAS AND PLENUMS; 450 OR LESS

LOCATIONS: TO BE USED BEHIND ADHERED STONE MASONRY WALL ASSEMBLY AND BELOW GRADE. BASIS OF DESIGN PRODUCT: OWENS CORNING "FOAMULAR" 250 XPS INSULATION OR APPROVED EQUAL CLASSIFICATION: ASTM C 578, TYPE IV

FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED WALL ASSEMBLIES WATER ABSORPTION <=0.3% PER ASTM C272 R-VALUE: MIN. R7.5 AT WALLS, MIN. R10 AT BUILDING FOUNDATION, AS INDICATED IN CONSTRUCTION DOCUMENTS

a. LOCATION: TO BE USED IN METAL COMPOSITE PANEL WALL ASSEMBLY PRODUCT: DOW "THERMAX" (CI) EXTERIOR INSULATION OR APPROVED EQUAL CLASSIFICATION:ASTM C1289, TYPE 1, CLASS 2 FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED WALL ASSEMBLIES R-VALUE: MIN. R7.5, AS INDICATED IN CONSTRUCTION DOCUMENTS.

POLYISOCYANURATE (POLYISO) FOAM RIGID BOARD INSULATION:

INSTALL PER MANUFACTURER'S RECOMMENDATION AND AS FOLLOWS:

OBSTRUCTIONS AND FILL VOIDS WITH INSULATION.

a. TYPE I, UNFACED a. PROVIDE 6LB/CF MINERAL ROCK WOOL AT ALL HOLLOW METAL DOOR FRAMES. PROVIDE 4 LB/CF MINERAL ROCK WOOL AT WINDOW HEAD LOCATIONS IN BRICK CAVITY WALL AND CONT. AT EA. FLOOR LINE WHERE STUD FRAMING IS CONTINUOUS

a. INSTALL INSULATION IN AREAS AND IN THICKNESSES INDICATED OR REQUIRED TO

PRODUCE R-VALUES WHERE INDICATED. CUT AND FIT TIGHTLY AROUND

GLASS FIBER BLANKET INSULATION: MEETS NFPA 285 IN APPROVED ASSEMBLIES

# 074213.23 METAL COMPOSITE MATERIAL WALL PANELS

PAST FLOOR SLAB.

PRODUCT DATA, TEST DATA, WARRANTIES SHOP DRAWINGS SHOWING ALL PANEL JOINTS LAYOUTS, AND ATTACHMENT DETAILS. PANEL SYSTEM ASSEMBLY, FINISH SAMPLES.

INSTALLER QUALIFICATIONS: AUTHORIZED, APPROVED, OR LICENSED BY MANUFACTURER. MANUFACTURER SHALL HAVE MINIMUM 15 YEARS IN THE MANUFACTURING OF THIS

PRODUCTS:

1. COMPOSITE WALL PANELS (REFER TO ELEVATIONS FOR LOCATIONS AND COLOR): ALUMINUM-FACED COMPOSITE PANELS WITH MOUNTING SYSTEM. PANEL MOUNTING SYSTEM INCLUDING ANCHORAGES, FURRING, FASTENERS, GASKETS AND SEALANTS. RELATED FLASHING ADAPTERS AND MASKING FOR COMPLETE INSTALLATION. a. BASIS OF DESIGN PRODUCT: ALUCOBOND PLUS MANUFACTURED BY 3A

COMPOSITES USA OR APPROVED EQUAL.

SYSTEM TYPE: ROUTE AND RETURN DRY

ESR-3435

THICKNESS: 4MM (0.157") ALUMINUM FACE SHEETS: THICKNESS (0.020"), ALLOY (3000 SERIES) CORE MATERIAL: FIRE RESISTANT FIRE PERFORMANCE: ASTM E84 CLASS A FIRE PROPAGATION: MEETS NFPA 285 IN APPROVED ASSEMBLIES, REFER TO ICC-ES

FINISH: COIL COATED FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT: COMPLYING WITH AAMA 2604. APPLIED BY MANUFACTURER COLOR: AS INDICATED IN DRAWINGS.

074213.23 METAL COMPOSITE MATERIAL WALL PANELS (CONT.)

2. EXPOSED FASTENER LAPPED SEAM PANEL

MATERIAL: PERFORATED CORRUGATED ALUMINUM PANEL THICKNESS: .050 PROFILE: PAC-CLAD BOX RIB 1

COLOR: AS INDICATED IN DRAWINGS PROVIDE COMPONENTS REQUIRED FOR A COMPLETE WALL PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIA, MULLIONS, CORNER UNITS, CLIPS, SEAM COVERS, FLASHINGS,

OPENNESS: 1/4" ROUND WITH 1/2" STAGGERED, 23% OPEN

SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. FLASHING AND TRIM: FORMED FROM 0.0179" (0.045mm) THICK, ZINC-COATED (GALVANIZED) STEEL SHEET OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET. PROVIDE FLASHING AND TRIM AS REQUIRED TO SEAL AGAINST WEATHER AND TO PROVIDE FINISHED APPEARANCE. FINISH FLASHING AND TRIM WITH SAME FINISH SYSTEM AS ADJACENT

BITUMINOUS COATING: COLD-APPLIED ASPHALT MASTIC, SSPC-PAINT 12, COMPOUNDED FOR 15-MIL (0.4mm) DRY FILM THICKNESS PER COAT.

INSTALL MANUFACTURER RECOMMENDED GASKETS, JOINT FILLERS, AND SEALANTS

PROVIDE WEEPS IN METAL WALL PANELS AS REQUIRED TO PREVENT COLLECTION OF

SELF-ADHERED FLASHING WHICH IS COMPATIBLE WITH AIR BARRIER SYSTEM. WEEP HOLE COVERS TO PREVENT INSECTS. FINISH TO MATCH PANEL.

ANCHOR PANELS SECURELY IN PLACE WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT. INSTALL WITH CONCEALED FASTENERS UNLESS OTHERWISE INDICATED USING STAINLESS STEEL FOR SURFACES EXPOSED TO THE EXTERIOR AND GALVANIZED FOR SURFACES EXPOSED TO THE INTERIOR.

WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF ASSEMBLIES. USE BITUMINOUS COATING OR SELF ADHERED FLASHING TO SEPARATE DISSIMILAR METALS AND WHERE ALUMINUM PANELS WILL CONTACT WOOD, FERROUS METAL OR CONCRETE. CONFIRM COMPATIBILITY OF PRODUCT TO BE UTILIZED WITH ADJACENT

# 075423 THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

WATER BEHIND PANELS.

PRODUCT DATA FOR ALL MATERIALS, AND SHOP DRAWINGS OF TAPERED INSULATION

PROVIDE (30) YEAR MANUFACTURER'S STANDARD WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY MANUFACTURER AGREEING TO REPAIR LEAKS DUE TO

DEFECTS IN MATERIALS OR WORKMANSHIP AND A (3) YEAR LABOR AND MATERIAL

WARRANTY FROM THE ROOFING SUBCONTRACTOR. 2. <u>EXTERIOR FIRE TEST EXPOSURE</u>: ASTM E 108, CLASS B.

TPO SHEET: ASTM D 6878, TYPE II, SCRIM OR FABRIC INTERNALLY REINFORCED 80 MILS (1.5 mm) THICK; COLOR: WHITE. a. BASIS OF DESIGN PRODUCT: FIRESTONE ULTRAPLY TPO OR APPROVED EQUAL. AUXILIARY MATERIALS: RECOMMENDED BY ROOFING SYSTEM MANUFACTURER FOR

INTENDED USE AND AS FOLLOWS: SHEET FLASHING: SAME THICKNESS AND COLOR AS SHEET MEMBRANE. BONDING ADHESIVE: TYPE AS RECOMMENDED BY MANUFACTURER MISCELLANEOUS ACCESSORIES: PROVIDE POURABLE SEALERS, PREFORMED CONE AND VENT SHEET FLASHINGS, PREFORMED INSIDE AND OUTSIDE CORNER SHEET FLASHINGS, T-JOINT COVERS, LAP SEALANTS, TERMINATION REGLETS, AND OTHER

ACCESSORIES.

MINIMUM R-VALUE: AS INDICATED IN DRAWINGS UTILIZE MIN. (2) LAYERS TO ACHIEVE R-VALUE, STAGGER JOINTS. FABRICATE TAPERED INSULATION WITH SLOPE OF 1/4"/FOOT UNLESS OTHERWISE

POLYISOCYANURATE BOARD INSULATION: ASTM C 1289, TYPE II

INSULATION SHAPES WHERE INDICTED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES 4. COVER BOARD: AS INDICATED IN DRAWINGS.

MECHANICALLY FASTEN EACH LAYER OF INSULATION TO DECK. INSTALL TPO SHEET ACCORDING TO ROOFING MANUFACTURER'S WRITTEN NSTRUCTIONS UTILIZING FIRESTONE'S "INVISIWELD" SYSTEM ATTACHMENT METHOD OR APPROVED EQUAL. a. MEMBRANE SHALL BE UNROLLED ON THE AREA TO BE COVERED AND FASTENED ALONG THE LEADING EDGE THROUGH THE MEMBRANE, INSULATION, AND INTO THE DECK. ADJACENT ROLLS OF MEMBRANE SHALL OVERLAP THE FASTENED EDGE OF THE INSTALLED MEMBRANE. FASTEN FIELD SHEETS WITH APPROVED FASTENERS FOR FM I-90 DESIGN FOR THE PROJECT DECK. ENSURE THAT THE DECK MATERIALS AND GRADE HAVE BEEN IDENTIFIED AND THAT THE PROPER FASTENER AND PLATE ARE INSTALLED AT THE NECESSARY SPACING TO ACHIEVE THE DESIGN AS SPECIFIED. FOR ROW SPACING IN EXCESS OF 76" SUBMIT VERIFICATION FROM

PROVIDE PREFORMED SADDLES, CRICKETS, TAPERED EDGE STRIOS, AND OTHER

MANUFACTURER THAT THE DECK AND MEMBRANE ASSEMBLY IS IN COMPLIANCE WITH FM I-90. PERIMETER/CORNER ENHANCEMENT: PERIMETER/CORNER FASTENING ENHANCEMENT SHALL BE INSTALLED AT ALL EXTERIOR ROOF PERIMETERS THAT ARE NOT BORDERED BY A PARAPET WALL OR AN ADJOINING BUILDING A MINIMUM OF 24" HIGHER THAN THE ROOF LEVEL AND IS REQUIRED AT ANY ADJOING ROOF LEVEL 24" OR GREATER ABOVE THE MAIN DECK LEVEL. PROVIDE FASTENERS AT SPACING REQUIRED BY MANUFACTURER TO COMPLY WITH WIND UPLIFT

LAP SPLICE: MEMBRANE SHALL BE OVERLAPPED AND HOT-AIR WELDED WITHOUT

SUBSTRATES. PROTECT ROOFING FROM DAMAGE AND WEAR DURING REMAINDER OF

ANY CONTAMINANTS (ADHESIVE, DIRT, DEBRIS, ETC.) IN THE SEAM. THE ENTIRE LAP EDGE SHALL BE PROBED WITH AN APPROVED SEAM PROBING TOOL AFTER THE SEAM HAS COOLED COMPLETELY TO VERIFY SEAM CONSISTENCY. SEAL EXPOSED EDGES OF SHEET TERMINATIONS. INSTALL SHEET FLASHINGS AND PREFORMED FLASHING ACCESSORIES AND ADHERE TO

A. <u>SUBMITTALS:</u> PRODUCT DATA, SHOP DRAWINGS, AND COLOR SAMPLES PERFORMANCE STANDARD: PROVIDE ROOF ASSEMBLIES THAT COMPLY WITH UL 580 FOR CLASS 90 WIND-UPLIFT RESISTANCE.

WARRANTIES: PROVIDE MANUFACTURER'S STANDARD WRITTEN WARRANTY, WITHOUT IONETARY LIMITATION, SIGNED BY MANUFACTURER AGREEING TO PROMPTLY REPAIR OR REPLACE METAL ROOF PANELS THAT FAIL TO REMAIN WATERTIGHT WITHIN 10 YEARS

CONSTRUCTION PERIOD.

FROM DATE OF SUBSTANTIAL COMPLETION. METAL ROOF PANELS:
1. ROOF PANEL TYPE: STANDING SEAM METALLIC COATED STEEL ROOF PANELS: FABRICATED FROM GALVANIZED STRUCTURAL STEEL SHEET ASTM A 653/A 653M, G90 (Z275), OR ALUMINUM-ZINC ALLOY-COATED STRUCTURAL STEEL SHEET. ASTM A 792/A 792M, CLASS AZ50

COATING DESIGNATION, GRADE 40 (CLASS AZM150 COATING DESIGNATION GRADE

ALUMINUM ROOF PANELS: FABRICATED FROM ALUMINUM SHEET, ASTM B 209 (ASTM

a. METAL THICKNESS: [0.0159" (0.40mm)] [0.0209" (0.55mm)] [0.0269" (0.70mm)] [0.0329" (0.85mm)] [0.0428" (1.10mm)] b. FINISH: MANUFACTURER'S STANDARD FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604.

B 209M) FOR ALCLAD ALLOY 3003, 3004, OR 3105.

a. METAL THICKNESS: [0.032" (0.8mm)] [0.040" (1.0mm)]

FINISH: MANUFACTURER'S STANDARD FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70 PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604. PROVIDE COMPONENTS REQUIRED FOR A COMPLETE ROOF PANEL ASSEMBLY INCLUDING TRIM, FASCIAE, CLIPS, SEAM COVERS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.

FLASHING AND TRIM: FORMED FROM 0.0179" (0.045mm) THICK, ZINC-COATED

(GALVANIZED) STEEL SHEET OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET.

THERMAL SPACERS: WHERE PANELS ATTACH DIRECTLY TO PURLINS, PROVIDE

PROVIDE FLASHING AND TRIM AS REQUIRED TO SEAL AGAINST WEATHER AND TO

PROVIDE FINISHED APPEARANCE. FINISH FLASHING AND TRIM WITH SAME FINISH SYSTEM AS ADJACENT METAL ROOF PANELS. UNDERLAYMENT: SELF-ADHERING POLYETHYLENE-FACED, POLYMER-MODIFIED, BITUMINOUS SHEET ASTM D 1970; 40 MILS (1mm) THICK OR ASPHALT SATURATED ORGANIC FELT ASTM D 226, TYPE II (NO. 30)

SLIP SHEET: RESIN-SIZED BUILDING PAPER, 5lb/100 sq. ft. (2.4 kg/sq. m)

THERMAL SPACERS RECOMMENDED BY PANEL MANUFACTURER. 6. BITUMINOUS COATING: COLD-APPLIED ASPHALT MASTIC, SSPC-PAINT 12, COMPOUNDED FOR 15-MIL (O.4mm) DRY FILM THICKNESS PER COAT. INSTALL UNDERLAYMENT ON ROOF SHEATHING UNDER METAL ROOF PANELS, UNLESS OTHERWISE RECOMMENDED BY METAL ROOF PANEL MANUFACTURER AND APPLY SLIP SHEET OVER UNDERLAYMENT. ANCHOR PANELS SECURELY IN PLACE WITH PROVISIONS FOR THERMAL AND

EXTERIOR AND GALVANIZED FOR SURFACES EXPOSED TO THE INTERIOR. INSTALL MANUFACTURER RECOMMENDED GASKETS, JOINT FILLERS, AND SEALANTS WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF ASSEMBLIES. 4. USE BITUMINOUS COATING TO SEPARATE DISSIMILAR METALS AND WHERE

STRUCTURAL MOVEMENT. INSTALL WITH CONCEALED FASTENERS UNLESS

ALUMINUM PANELS WILL CONTACT WOOD, FERROUS METAL OR CONCRETE

OTHERWISE INDICATED USING STAINLESS STEEL FOR SURFACES EXPOSED TO THE

PARAGON STAR

LOT 20 - HUB

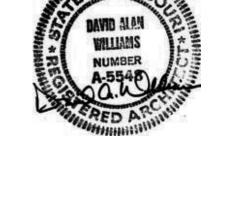
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LEE'S SUMMIT, MO 64081 Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET REVISIONS

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REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

**ENGINEERS** 

**ENGINEERS** 

HENDERSON

LANDSCAPE HOERR SCHAUDT / FOUNDATIONS BSE STRUCTURAL

BSE STRUCTURAL STRUCTURAL **ENGINEERS** PLUMBING HENDERSON

MECHANICAL

**ENGINEERS** ELECTRICAL HENDERSON **ENGINEERS** 

CONTRACTOR FOGEL ANDERSON

FIRE PROTECTION HENDERSON

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SHEET TITLE

**PROJECT** 

### <u>DIVISION 7 - THERMAL AND MOISTURE PROTECTION (CONT.</u>

#### 076200 SHEET METAL FLASHING AND TRIM

- SUBMITTALS: PRODUCT DATA, COLOR SAMPLES, AND SHOP DRAWINGS INDICATING MATERIAL, DIMENSIONS, JOINT LOCATIONS, EDGE CONDITIONS, AND METHODS OF ANCHORAGE.
- FABRICATION STANDARD: COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL". CONFORM TO DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS
- COORDINATION: COORDINATE INSTALLATION OF SHEET METAL FLASHING AND TRIM WITH INTERFACING AND ADJOINING CONSTRUCTION TO PROVIDE A LEAKPROOF, SECURE, AND NONCORROSIVE INSTALLATION.
- SHEET METAL:
  1. COPPER: ASTM B 370, TEMPER H00 OR H01, COLD ROLLED, NOT LESS THAN 16 OZ/S.F. (0.55
- ALUMINUM SHEET: ASTM B 209 (ASTM B 209 M) ALLOY 3003, 3004, 3105, OR 5005, TEMPER SUITABLE FOR FORMING AND STRUCTURAL PERFORMANCE REQUIRED, BUT NOT LESS THAN H14; NOT LESS THAN 0.032 INCH (O.8 mm) THICK, FINISHED WITH MANUFACTURER'S
- FLUOROPOLYMER 2-COAT SYSTEM WITH TOPCOAT CONTAINING NOT LESS THAN 70% POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT; COMPLYING WITH AAMA 2604. 3. STAINLESS STEEL SHEET: ASTM A 240/A 240M, TYPE 304, WITH NO. 2D FINISH; NOT LESS THAN 0.0156 INCH (0.4 mm) THICK.
- FLASHING AND TRIM: FABRICATE FLASHING AND TRIM TO COMPLY WITH RECOMMENDATIONS OF SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO THE DESIGN, DIMENSIONS, METAL, AND OTHER CHARACTERISTICS OF THE ITEM INDICATED OR DETAILED ON THE CONSTRUCTION DRAWINGS. FABRICATE WITH CONCEALED FASTENERS EXCEPT WHERE EXPOSED FASTENERS ARE PERMITTED.

- SOLDER FOR COPPER: ASTM B 32, GRADE Sn50 SOLDER FOR STAINLESS STEEL: ASTM B 32, GRADE Sn60, WITH ACID FLUX OF TYPE RECOMMENDED BY STAINLESS STEEL MFR.
- 3. BUTYL SEALANT: ASTM C 1311, SOLVENT-RELEASE TYPE, FOR EXPANSION JOINTS WITH LIMITED MOVEMENT.
- 4. ASPHALT MASTIC: SSPC-PAINT 12, ASBESTOS FREE, SOLVENT TYPE. ROOFING CEMENT: ASTM D 4586, TYPE I, ASBESTOS FREE, ASPHALT BASED 6. SLIP SHEET: RESIN-SIZED PAPER, MINIMUM 3 LB/100 S.F. (0.16 kg/sq. m)
- INSTALLATION:
  1. COMPLY WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." ALLOW FOR THERMAL EXPANSION; SET TRUE TO LINE AND LEVEL. INSTALL WORK WITH LAPS, JOINTS AND SEAMS PERMANENTLY WATERTIGHT AND WEATHERPROOF; CONCEAL FASTENERS WHERE POSSIBLE SECURE FLASHINGS AT ROOF EDGES ACCORDING TO FMG LOSS PREVENTION DATA
- SHEET 1-49 FOR SPECIFIED WIND ZONE. 3. SEALED JOINTS: FORM NON-EXPANSION, BUT MOVABLE, JOINTS IN METAL TO ACCOMMODATE ELASTOMERIC SEALANT TO COMPLY WITY SMACNA STANDARDS USING
- BAYONET TYPE OR INTERLOCKING HOOKED SEAMS. FABRICATE NONMOVING SEAMS IN SHEET METAL WITH FLAT-LOCK SEAMS. FOR METAL OTHER THAN ALUMINUM, TIN EDGES TO BE SEAMED, FORM SEAMS AND SOLDER. FOR ALUMINUM, FORM SEAMS AND SEAL WITH EPOXY SEAM SEALER. RIVET JOINTS FOR ADDITIONAL STRENGTH.
- SEPARATION: SEPARATE NON-COMPATIBLE METALS OR CORROSIVE SUBSTRATES WITH A COATING OF ASPHALT MASTIC OR OTHER PERMANENT SEPARATION

### 077200 ROOF ACCESSORIES

- A. <u>SUBMITTALS</u>: PRODUCT DATA, INSTALLATION DETAILS, WARRANTIES
- ROOF CURBS AND EQUIPMENT SUPPORTS: SEE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION, INCLUDE MANUFACTURER'S STANDARD RIGID OR SEMIRIGID INSULATION AND PRESERVATIVE-TREATED WOOD NAILERS AT TOPS. PROVIDE UNITS WITH CANT STRIPS AND BASE PROFILE COORDINATED WITH ROOF INSULATION THICKNESS AND ROOF
- DECK SLOPE. ROOF HATCHES: BASIS OF DESIGN: BILCO E-50TB, THERMALLY BROKEN, INSULATED SINGLE-LEAF, 36" W X 36" D OPENING. FABRICATE FROM METALLIC-COATED STEEL WITH INTEGRAL CURB OF HEIGHT NECESSARY TO EXTEND 8" MIN. ABOVE ROOF SURFACE, DOUBLE WALL CONSTRUCTION WITH 11/2" INSULATION, FORMED CANTS AND CAP FLASHING, WITH WELDED MECHANICAL CORNER JOINTS. PROVIDE DOUBLE-WALL COVER (LID) CONSTRUCTION WITH 1" INSULATION CORE. PROVIDE GASKETING AND CORROSION RESISTANT HARDWARE INCLUDING PINTLE HINGES, HOLD-OPEN DEVICES, INTERIOR PADLOCK HASPS, AND BOTH INTERIOR AND EXTERIOR LATCH HANDLES.
- <u>INSTALLATION</u>: INSTALL ROOF ACCESSORY ITEMS ACCORDING TO CONSTRUCTION DETAILS OF NRCA'S "ROOFING AND WATERPROOFING MANUAL". COORDINATE WITH INSTALLATION OF ROOF DECK, VAPOR BARRIERS, ROOF INSULATION, ROOFING, AND FLASHING TO ENSURE COMBINED ELEMENTS ARE SECURE, WATERPROOF, AND WEATHERTIGHT.

### 078413 PENETRATION FIRESTOPPING

- SUBMITTALS: PRODUCT DATA AND PRODUCT CERTIFICATES SIGNED BY MFR. CERTIFYING THAT PRODUCTS COMPLY WITH REQUIREMENTS. RATINGS: PROVIDE FIRESTOPPING SYSTEM WITH FIRE RESISTANCE RATINGS INDICATED BY EFERENCE TO UL DESIGNATIONS AS LISTED IN ITS "FIRE RESISTANCE DIRECTORY", OR TO DESIGNATION OF ANOTHER TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING
- FLAME SPREAD/SMOKE DEVELOPED RATINGS: FOR EXPOSED FIRESTOPPING, PROVIDE PRODUCTS WITH FLAME SPREAD INDEXES OF LESS THAN 25 AND SMOKE-DEVELOPED INDEXES OF LESS THAN 450, AS DETERMINED ACCORDING TO ASTM E 84.
- FIRESTOP SYSTEMS: USE SYSTEMS AS DESIGNATED ON THE CONSTRUCTION DRAWINGS, OR IF NOT DESIGNATED, ANY SYSTEM THAT IS CLASSIFIED BY UL AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION FOR THE APPLICATION MAY BE USED.
- INSTALLATION: INSTALL FIRESTOPPING SYSTEMS TO COMPLY WITH REQUIREMENTS LISTED IN FESTING AGENCY'S DIRECTORY FOR INDICATED FIRE-RESISTANCE RATING. <u>IDENTIFICATION</u>: IDENTIFY THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PERMANENT LABELS ATTACHED TO SURFACES ADJACENT TO FIRESTOP SYSTEMS SO THAT LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. LABELS SHALL INCLUDE THE FOLLOWING: THE WORDS "WARNING - THROUGH PENETRATION FIRESTOP SYSTEM - DO NOT DISTURB" CLASSIFICATION/LISTING DESIGNATION OF APPLICABLE TESTING AND INSPECTING
- THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME AND PRODUCT

# 079200 JOINT SEALANTS

- SUBMITTALS: PRODUCT DATA, COLOR SAMPLES, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT SUBMITTED.
- SEALANT COLORS/MOCKUP: MULTIPLE SEALANT COLORS WILL BE REQUIRED TO COORDINATE WITH COLORS OF MATERIALS BEING SEALED, SHALL BE SELECTED FROM MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS, INCLUDING PREMIUM COLORS, AND SHALL BE VERIFIED FROM A 12" LONG FIELD APPLIED SAMPLE OF EACH COLOR PRIOR TO COMPLETE INSTALLATION.
- ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4.4 deg C).
- COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS.
- JOINT SEALANTS BUILDING EXPANSION JOINTS: SINGLE COMPONENT, NEUTRAL-CURING SILICONE SEALANT. ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, M, AND O, WITH THE ADDITIONAL CAPABILITY TO WITHSTAND 50% MOVEMENT IN BOTH EXTENSION AND COMPRESSION FOR EXTERIOR TRAFFIC BEARING JOINTS WHERE SLOPE PRECLUDES POURABLE SEALANT:
- SINGLE COMPONENT, NONSAG URETHANE SEALANT, ASTM C920, TYPE S; GRADE NS; EXTERIOR TRAFFIC BEARING JOINTS WHERE SLOPE PERMITS USE OF POURABLE
- SEALANT: SINGLE COMPONENT, POURABLE URETHANE SEALANT, ASTM C 920, TYPE S; GRADE P; CLASS 25; USES T, M, G, A, AND O. 4. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET
- ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES NT, G, A, AND O;
- FORMULATED WITH FUNGICIDE. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION
- SEALANT COMPLYING WITH ASTM C 834. ACOUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE,
- NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834. ACOUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING. NONSKINNING, NONSTAINING, GUNNABLE, SYNTHETIC-RUBBER SELANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AIRBORNE

JOINT SEALANT BACKING: CYLINDRICAL CLOSED CELL PVC ROD COMPLYING WITH ASTM C330; SIZE 30% TO 50% LARGER THAN JOINT WIDTH. ALL OPEN CELL BACKINGS SUCH AS "DENVER

- BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR. FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
- <u>INSTALLATION</u>: COMPLY WITH ASTM C 1193; ASTM C 919 FOR ACOUSTICAL JOINTS: AND AS REMOVE ALL LOOSE MATERIAL. CLEAN AND PRIME JOINTS IN ACCORDANCE WITH
- MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED. INSTALL SEALANT TOOLED CONCAVE. FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

# - END DIVISION 7 -

FOAM" ARE PROHIBITED.

### **DIVISION 8 - DOOR AND WINDOWS**

- 081213 HOLLOW METAL FRAMES SUBMITTALS: PRODUCT DATA AND FRAME SCHEDULE INDICATING OPENING AND FRAME SIZES
- CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. HOT-ROLLED STEEL SHEETS: ASTM A1011/A 1011M
- COLD-ROLLED STEEL SHEETS: ASTM A 1008/A 1008M OR ASTM A 620/A 620M
- GALVANIZED STEEL SHEETS: ASTM A 653/A 653M, A40 OR G40 (ZF120 OR Z120) COATING STEEL FRAMES: FULLY WELDED, ANSI A 250.8, CONCEALED FASTENING, PREPARED FOR MORTISED AND CONCEALED HARDWARE ACCORDING TO ANSI A 250.6 AND ANSI A 115 SERIES STANDARDS AND REINFORCED TO RECEIVE SURFACE-APPLIED HARDWARE.
- 1. STEEL SHEET THICKNESS FOR INTERIOR FRAMES: PER DOOR SCHEDULE 2. STEEL SHEET THICKNESS FOR EXTERIOR FRAMES: PER DOOR SCHEDULE
- SUPPORTS AND ANCHORS: MIN. .042" THICK GALVANIZED STEEL SHEET PRIMER: MANUFACTURER'S STANDARD FACTORY APPLIED COAT OF RUST-INHIBITIVE PRIMER COMPLYING WITH ANSI A250.10.
- 1. FRAMES: COMPLY WITH SDI 105 AND INSTALL FIRE-RATED FRAMES PER NFPA 80.

#### 081416 FLUSH WOOD DOORS

- SUBMITTALS: PRODUCT DATA, PREFINISHED DOOR SKIN SAMPLES, AND DOOR SCHEDULE INDICATING DOOR AND FRAME SIZES. TYPES, ELEVATIONS, DETAILS, AND HARDWARE WITH DOOR AND HARDWARE NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION
- DOORS: SIZES, SPECIES, AND DESIGNS AS INDICATED COMPLYING WITH WDMA I.S.1-A
- GRADE: PREMIUM VENEER MATCHING: BOOK AND RUNNING
- PAIR MATCHING AND SET MATCHING CONSTRUCTION: INTERIOR VENEER: FIVE OR SEVEN PLY, STRUCTURAL COMPOSITE LUMBER CORES INTERIOR PLASTIC LAMINATE: THREE-PLY, STRUCTURAL COMPOSITE LUMBER CORE FIRE-RATED DOORS: CORE TO PROVIDE FIRE RATING INDICATED WITH FACES AND
- GRADE TO MATCH NON-RATED DOORS. **FABRICATION AND FINISHING** FACTORY FIT DOORS TO SUIT FRAME OPENINGS TO COMPLY WITH REFERENCED
- STANDARD. COMPLY WITH NFPA 80 FOR FIRE-RESISTANCE RATED DOORS. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED.
- CUT AND TRIM OPENINGS TO COMPLY WITH REFERENCED STANDARDS. LITE KITS: [MATCHING WOOD STOPS] [STEEL STOPS]
- FACTORY FINISH DOORS FOR TRANSPARENT FINISH WITH STAIN AND MANUFACTURER'S STANDARD FINISH COMPARABLE TO AWI, SYSTEM TR-4, CONVERSION VARNISH OR AWI SYSTEM TR-6, CATALYZED POLYURETHANE.
- INSTALLATION: COMPLY WITH WDMA'S "HOW TO STORE, HANDLE, FINISH, INSTALL, AND MAINTAIN WOOD DOORS" ALIGNED AND FITTED IN FRAMES WITH UNIFORM CLEARANCES AND 1. INSTALL FIRE RATED DOORS PER NFPA 80.

### 083113 ACCESS DOORS AND FRAMES

- PRODUCTS: PRIME-PAINTED FLUSH, UNINSULATED ACCESS DOORS FOR WALLS AND CEILINGS WITH TRIMLESS FRAME AND SCREWDRIVER OPERATED LOCK FLUSH WITH FINISHED SURFACE.
- FIRE-RATED, SELF-LATCHING. AUTOMATIC CLOSING AT FIRE-RATED WALLS OR CEILINGS INSTALLATION: INSTALL FLUSH TO FINISHED DRYWALL SURFACE WITH FRAME TAPED AND SANDED FLUSH WITH WALL OR CEILING SURFACE AND FINISH TO MATCH ADJACENT SURFACE.

### 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

3. MANUFACTURER'S WARRANTY: 2 YEARS

OF CLEAR SPAN

- INSTALLER QUALIFICATIONS, FABRICATOR QUALIFICATIONS, SOURCE LIMITATIONS
- 2. PRODUCT DATA FOR EACH SYSTEM SPECIFIED, INCLUDING ACCESSORIES, SEALANTS, AND PRODUCTS TO BE SUPPLIED FOR A COMPLETE INSTALLATION. SAMPLES: FULL RANGE OF MANUFUCTURERS STANDARD COLOR, FINISH AND OTHER
- OPTIONS REQUIRED FOR SELECTION. SHOP DRAWINGS STAMPED AND SIGNED BY LICENSED ENGINEER: INCLUDING DETAILS AT JOINTS AND PERIMETER CONDITIONS, FLASHINGS, CONNECTION AND INTERFACE WITH
- WORK BY OTHERS, EXPANSION AND CONTRACTION JOINT, ANY FIELD WELDING REQUIREMENTS, HARDWARE SCHEDULE. CALCULATIONS STAMPED AND SIGNED BY LICENSED ENGINEER: DESIGN LOADS, SYSTEM DIMENSIONS, TOLERANCES, DETAILS AT JOINTS, PERIMETER CONDITIONS, FLASHING,
- CONNECTIONS TO WORK BY OTHERS, EXPANSION AND CONTRACTION JOINT LOCATIONS, AND ANY FIELD WELDING. FOR ENTRANCES, INCLUDE HARDWARE SCHEDULE. SAMPLE WARRANTIES
- MOCK-UP: ON SITE, INCLUDING HEAD, JAMB AND SILL CONDITIONS AND INTERFACE WITH
- <u>DELEGATED DESIGN:</u> DESIGN GLAZED ALUMINUM CURTAIN WALLS AND GLAZED ALUMINUM WINDOW WALLS, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.
- FABRICATOR: COMPANY SPECIALIZING IN MANUFACTURING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE INSTALLER: COMPANY SPECIALIZING IN INSTALLING ALUMINUM GLAZING SYSTEMS WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE

- ALUMINUM SHEET: ASTM B 209 (ASTM B 209M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED. 2. ALUMINUM EXTRUSIONS: ASTM B 221 (ASTM B221M), ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED.
- <u>ALUMINUM FRAMED STOREFRONTS</u>: AT INTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD NON-THERMALLY BROKEN STOREFRONT SYSTEM MATCHING THE EXTERIOR SYSTEM. AT EXTERIOR LOCATIONS, PROVIDE MANUFACTURER'S STANDARD THERMALLY BROKEN, EXTRUDED ALUMINUM STOREFRONT SYSTEM CONSISTING OF FRAMING MEMBERS OF THICKNESS REQUIRED AND REINFORCED AS REQUIRED TO SUPPORT IMPOSED LOADS AND TO FIT THE DIMENSIONS AND DEPTHS INDICATED ON THE CONSTRUCTION DOCUMENTS AND
- COMPLYING WITH THE FOLLOWING: 1. <u>STRUCTURAL PERFORMANCE</u>: PROVIDE SYSTEMS, INCLUDING ANCHORAGE, CAPABLE OF WITHSTANDING THE FOLLOWING LOADS: MAIN FRAMING MEMBER DEFLECTION: LIMITED TO 1/175 OF CLEAR SPAN OR 3/4"
- WHICHEVER IS SMALLER STRUCTURAL TESTING: SYSTEMS WHEN TESTED ACCORDING TO ASTM E 330 AT 150 PERCENT OF INWARD AND OUTWARD WIND-LOAD DESIGN PRESSURE DO NOT EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS, DEFLECTION FAILURES, OR PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS ECEEDING 0.2 PERCENT
- AIR INFILTRATION: LIMITED TO 0.06 CFM/SQ. FT. (0.03 L/s PER SQ. IN.) OF SYSTEM SURFACE AREA WHEN TESTED ACCORDING TO ASTM E 283 AT A STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 lbf/sq. ft. (75 Pa)
- WATER PENETRATION: SYSTEMS DO NOT EVIDENCE WATER LEAKAGE WHEN TESTED ACCORDING TO ASTM E 331 AT MINIMUM DIFFERENTIAL PRESSURE OF 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT LESS THAN 6.24 lbf/sq. ft. (300 Pa). AVERAGE U-FACTOR: NOT MORE THAN 0.69 Btu/sq. ft. x h x deg. f (3.92 W/sq. m x K) PER AAMA
- 5. <u>DOORS:</u> 1-3/4" THICK GLAZED DOORS WITH MINIMUM 0.125" THICK EXTRUDED TUBULAR RAIL AND STILE MEMBERS. MECHANICALLY FASTENED CORNERS WITH REINFORCED BRACKETS THAT ARE DEEP PENETRATION AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE-RODS, SNAP-ON EXTRUDED ALUMINUM GLAZING STOPS, AND PREFORMED GASKETS.
- a. INTERIOR DOORS: GLAZE WITH 1/4" CLEAR TEMPERED GLASS. PROVIDE ANSI/BHMA A156.16 SILENCERS. THREE ON STRIKE JAMB OF SINGLE DOOR FRAMES AND TWO ON HEAD OF DOUBLE DOOR FRAMES.
- EXTERIOR DOORS: GLAZE WITH INSULATED TEMPERED GLASS UNITS MATCHING STOREFRONT GLASS OR CLEAR INSULATED GLASS PER CONSTRUCTION DRAWINGS. PROVIDE COMPRESSION WEATHERSTRIPPING AT FIXED STOPS. AT OTHER LOCATIONS, PROVIDE SLIDING WEATHERSTRIPPING RETAINED IN ADJUSTABLE STRIP MORTISED INTO DOOR EDGE. HARDWARE: PER DOOR SCHEDULE
- FASTENERS AND ACCESSORIES: COMPATIBLE WITH ADJACENT MATERIALS, CORROSION-RESISTANT. NONSTAINING, AND NONBLEEDING. USE CONCEALED FASTENERS EXCEPT FOR APPLICATION OF DOOR HARDWARE.
- FABRICATION: FABRICATE FRAMING IN PROFILES INDICATED. PROVIDE SUBFRAMES AND REINFORCING AS REQUIRED FOR A COMPLETE SYSTEM. FACTORY ASSEMBLE COMPONENTS TO GREATEST EXTENT POSSIBLE. DISASSEMBLE COMPONENTS ONLY AS NECESSARY FOR SHIPMENT AND INSTALLATION. DOORS FRAMING: REINFORCE TO SUPPORT IMPOSED LOADS. FACTORY ASSEMBLE DOOR AND FRAME UNITS AND FACTORY INSTALL HARDWARE TO GREATEST EXTENT POSSIBLE. REINFORCE DOOR AND FRAME UNITS FOR HARDWARE INDICATED. CUT. DRILL, AND TAP FOR FACTORY-INSTALLED HARDWARE BEFORE FINISHING
- 8. <u>ALUMINUM FINISH:</u> COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FLUOROPOLYMER, 2-COAT SYSTEM, COMPLYING WITH AAMA 2604 a. COLOR: CUSTOM COLOR
- ISOLATE METAL SURFACES IN CONTACT WITH INCOMPATIBLE MATERIALS, INCLUDING WOOD, BY PAINTING CONTACT SURFACES WITH BITUMINUOUS COATING OR PRIMER, OR BY APPLYING SEALANT TAPE RECOMMENDED BY MANUFACTURER.
- 2. INSTALL FRAMING COMPONENTS TO PROVIDE A WEATHERPROOF SYSTEM AND TRUE IN ALIGNMENT WITH ESTABLISHED LINES AND GRADES TO THE FOLLOWING TOLERANCES: VARIATION FROM PLANE: LIMIT TO 1/8" IN 12 FEET: 1/4" OVER TOTAL LENGTH LIGNMENT: FOR SURFACES ABUTTING LINE, LIMIT OFFSET TO 1/16". FOR SURFACES
- MEETING AT CORNERS, LIMIT OFFSET TO 1/32". DIAGONAL MEASUREMENTS: LIMIT DIFFERENCE BETWEEN DIAGONAL MEASUREMENTS TO 1/8"
- PERIMETER JOINTS: 1/2" MAXIMUM. INSTALL DOORS WITHOUT WARP OR RACK. ADJUST DOORS AND HARDWARE TO PROVIDE TIGHT FIT AT CONTACT POINTS AND SMOOTH OPERATION.

- SUBMITTALS: PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING
- CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. B. <u>HARDWARE</u>: FURNISH PRODUCTS AS SPECIFIED IN THE HARDWARE SETS CONTAINED IN THE
- CONSTRUCTION DOCUMENTS AND AS FOLLOWS:
- a. QUANTITY: 3 HINGES FOR DOORS 90" OR LESS IN HEIGHT; 4 HINGES FOR DOORS MORE THAN 90" IN HEIGHT.
  - MATERIAL: STAINLESS STEEL OR BRASS/BRONZE HINGES WITH STAINLESS STEEL PINS FOR EXTERIOR. PINS: NONREMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE; NON-
- RISING ELSEWHERE.
- LOCKSETS AND LATCHSETS BORED LOCKS AND LATCHES: BHMA A156.2, SERIES 4000, GRADE 1 EXIT DEVICES: BHMA A156.3, GRADE 1

BEARING: BALL BEARING HINGES AT ALL LOCATIONS.

- AUXILIARY LOCKS: BHMA A156.5, GRADE 1 INTERCONNECTED LOCKS AND LATCHES: BHMA A156.12, SERIES 5000, GRADE 1 MORTISE LOCKS AND LATCHES: BHMA A156.13, SERIES 1000, GRADE 1 TRIM: LEVER HANDLE STYLE PER CONSTRUCTION DOCUMENTS OR IF NOT
- EXISTS, MATCH SCHLAGE "OMEGA"; TRIM ON EXIT DEVICES SHALL MATCH KEYING: PROVIDE CONSTRUCTION KEYING AND COORDINATE FINAL KEYING WITH OWNER'S MASTER-KEY SYSTEM. FURNISH KEY CONTROL SYSTEM, INCLUDING
- a. LOCATION: MOUNT CLOSERS ON INTERIOR (ROOM SIDE) OF DOOR OPENING. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS
  - b. OPTIONS: FURNISH ADJUSTABLE DELAYED OPENING (ADA ACCESSIBLE) FEATURE ON

SPECIFIED, MATCH BUILDING STANDARD. IF NOT SPECIFIED AND NO STANDARD

- STOPS: FURNISH AND INSTALL WALL OR FLOOR STOPS AS APPROPRIATE FOR ALL DOORS WHETHER INDICATED OR NOT. WEATHERSTRIPPING: AT ALL EXTERIOR DOORS AND AS SCHEDULED, PROVIDE WEATHERSTRIPPING ON HEAD AND JAMBS AND DRIP-SWEEP AT SILL.
- SMOKE GASKETING: PROVIDE SMOKE GASKETING AT ALL FIRE-RATED DOORS. THRESHOLDS: PROVIDE THRESHOLDS AT ALL EXTERIOR DOORS AND AS SCHEDULED
- INSTALLATION: MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE, UNLESS OTHERWISE INDICATED.

- SUBMITTALS: PRODUCT DATA AND (2) 12" SQUARE SAMPLES OF EACH TYPE OF GLASS SPECIFIED.
- FIRE RESISTANCE-RATED ASSEMBLIES: PRODUCTS IDENTICAL TO THOSE TESTED PER NFPA 252 FOR DOORS AND NFPA 257 FOR WINDOW ASSEMBLIES; BOTH LABELED AND LISTED BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO
- AUTHORITIES HAVING JURISDICTION. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16
- GLAZING PUBLICATIONS: WHERE APPLICABLE, COMPLY WITH WITH THE PUBLISHED RECOMMENDATIONS OF THE FOLLOWING: GANA PUBLICATIONS: "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE" AAMA PUBLICATIONS: AAMA GDSG-1, "GLASS DESIGN FOR SLOPED GLAZING", AND
- AAMA TIR-A7. "SLOPED GLAZING GUIDELINES". SIGMA PUBLICATIONS: SIGMA TM-3000, "VERTICAL GLAZING GUIDELINES" AND SIGMA TB-3001, "SLOPED GLAZING GUIDELINES".
- FLOAT GLASS: ASTM C 1036, TYPE I, QUALITY q3 HEAT-TREATED FLOAT GLASS: ASTM C 1048, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRED BY CODE OR INSTALLATION CONDITIONS
- COATED GLASS: ASTM C 1048. CONDITION C, TYPE I, QUALITY q3, HEAT STRENGTHENED OR FULLY TEMPERED WHERE INDICATED AND WHERE REQUIRES BY CODE OR INSTALLATION CONDITIONS.
- WIRED GLASS: TYPE II, CLASS I, QUALITY q8, FORM 1 POLISHED, WITH m2 SQUARE MESH. .25" THICK.
- PATTERNED GLASS: ASTM C 1036, TYPE II, CLASS 1 , FORM 3, QUALITY q8, FINISH F1 PATTERN PER CONSTRUCTION DRAWINGS. TEMPERED PATTERNED GLASS: ASTM C 1048. TYPE II, CLASS 1, FORM 3, QUALITY q8,
- FINISH F1, PATTERN PER CONSTRUCTION DRAWINGS. MIRROR GLASS: ASTM C 1036, TYPE I, CLASS 1, QUALITY q1, SILVER COATED PER FS DDM411C, 6.0mm THICK, WITH EDGES FLAT POLISHED.

#### SEALED INSULATING-GLASS UNITS: PREASSEMBLED UNITS COMPLYING WITH ASTM E 774 FOR CLASS CBA UNITS WITH TWO SHEETS OF GLASS SEPARATED BY A 1/2-INCH

- DEHYDRATED SPACE FILLED WITH AIR. a. VISION GLASS: (**GL-1**) PPG SOLARBAN 70XL SOLAR CONTROL LOW-E GLASS OR APPROVED EQUAL • 1/4" CLEAR, 1/2" AIR SPACE, 1/4" CLEAR - PROVIDE LOW-E COATING ON 2ND
- VISIBILE LIGHT TRANSMITTANCE: 64% SOLAR HEAD GAIN COEFFICIENT: 0.27 SPANDREL GLASS: (SP-1) TO MATCH VISION GLASS WITH OPACIFIER APPLIED TO FOURTH SURFACE
- WARRANTY: 10 YEAR WARRANTY TO INCLUDE REPLACEMENT OF SEALED UNITS EXHIBITING SEAL FAILURE, INTERPANE DUSTING OR MISTING.
- COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL"
- SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR CHARACTERISTICS. AFTER GLASS INSTALLATION IS COMPLETE, REMOVE GLAZING MATERIALS AND LABELS FROM FINISHED SURFACES, AND THOROUGHLY CLEAN GLASS AND ADJACENT FRAMING AND SURFACES. REPEAT AS NECESSARY PRIOR TO FINAL WALK-THROUGH.

# - END DIVISION 8 -

# <u>DIVISION 9 - FINISHES</u>

SURFACE.

- 092216 NON-STRUCTURAL METAL FRAMING
- STEEL FRAMING MEMBERS: COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS STEEL SHEET COMPONENTS: COMPLY WITH ASTM C645 WITH MANUFACTURER'S
- STANDARD CORROSION-RESISTANT ZINC COATING. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0625" DIAMETER OR DOUBLE STRAND OF .0475" DIAMTER WIRE.
- WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER. .0162"
- PANEL PRODUCTS: PROVIDE IN THICKNESS AND TYPE INDICATED IN THE CONSTRUCTION DRAWINGS IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS GYPSUM WALLBOARD: ASTM C 36, TYPE 'X' WITH TAPERED EDGES, SAG-RESISTANT TYPE
- FOR CEILING SURFACES. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630, TYPE 'X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED
- GLASS-MAT, WATER RESISTANT GYPSUM BACKING BOARD: ASTM C 1178, GEORGIA PACIFIC "DENS-SHIELD TILE BACKER", OR EQUAL AT TILED, 'WET' WALLS EXTERIOR SOFFIT BOARD: GEORGIA PACIFIC "DENS-GLAS GOLD", OR APPROVED EQUAL CEMENTITIOUS BACKER UNITS: ANSI A118.9.
- MPACT RESISTANT GYPSUM BOARD: ASTM C 1629/C 1629M WITH TAPERED EDGES. GLASS-MAT GYPSUM SHEATHING BOARD: ASTM C 1177, WITH FIBERGLASS MAT AMINATED TO BOTH SIDES AND WITH MANUFACTURER'S STANDARD EDGES, GEORGIA
- PACIFIC "DENSGLASS GOLD SHEATHING"
- TRIM: ASTM 1047, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED ZINC, OR PLASTIC a. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE
- EXPOSED PANEL EDGES: PROVIDE LC-BEAD (J-BEAD) UNLESS NOTED OTHERWISE USE TEAR-AWAY BEAD WHERE GYP. BD. MEETS WINDOW FRAMES OR CEILING GRID. CONTROL JOINTS: PROVIDE WHERE INDICATED OR APPROXIMATELY 30'-0" MAX. CONTACT ARCHITECT FOR LOCATIONS IF NOT INDICATED.
- REVEALS AND MOLDINGS: EXTRUDED ALUMINUM WITH CLASS II CLEAR ANODIZED SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED)

FIRE-RESISTANCE-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL

DECORATIVE REVEALS ARE INDICATED IN A RATED ASSEMBLY, PROVIDE ADDITIONAL LAYERS

O THOSE TESTED IN ASSEMBLIES AS INDICATED BY AND INDEPENDENT TESTING AND

OF GYPSUM BOARD AS NECESSARY TO MAINTAIN THE FIRE RATED ASSEMBLY BEHIND THE

ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PAINTABLE, NONSTAINING

INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. WHERE

LAYER CONTAINING THE REVEALS. STC-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE STED IN ASSEMBLIES PER ASTM E 90 AND CLASSIFIED PER ASTM E 413 BY A QUALIFIED

INDEPENDENT TESTING AND INSPECTING AGENCY.

## (CONT) 092900 GYPSUM BOARD

- FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT AND PROVIDE
- BRACING AS NECESSARY FOR PROPER SUPPORT WHETHER INDICATED OR NOT. GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK AND FINISH AS
- a. LEVEL 1 (EMBED TAPE AT JOINTS)
  - LOCATIONS: AT CONCEALED AREAS UNLESS A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLY. b. LEVEL 2 (EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO

JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH

- TAPE. FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT) LOCATIONS: AT SUBSTRATES BEHIND TILE. c. LEVEL 4 (EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF
- AFTER EACH COAT) • LOCATIONS: AT ALL WALLS RECEIVING FLAT OR SATIN SHEEN PAINT OR WALLCOVERING
- LEVEL 5 (EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY THIN SKIM COAT
- OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH LOCATIONS: AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT LONG HALLWAYS, CRITICAL LIGHTING AREAS ABUTTING WINDOWS OR AREAS
- FLOODED WITH NATURAL OR ARTIFICIAL LIGHT, ALL WALLS ADJACENT TO AND PERPINDICULAR TO EXTERIOR GLASS, AND ALL GYPSUM BOARD CEILINGS TERMINATIONS AT WINDOW MULLIONS: WHEN GYPSUM BOARD PARTITIONS TERMINATE INTO WINDOW MULLIONS, THE TERMINATIONS SHALL BE INSTALLED AS DETAILED ON THE CONSTRUCTION DOCUMENTS. IF NOT DETAILED, THE TERMINATIONS SHALL BE INSTALLED TO ALLOW PERIMETER WINDOW BLINDS TO EXTEND FULLY TO THE WINDOW MULLION, NOT CUT SHORT DUE TO THE WIDTH OF THE PARTITION.

### 093013 CERAMIC TILE

- SUBMITTALS: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.
- B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CERAMIC TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.
- C. <u>TILE</u>: COMPLY WITH STANDARD GRADE REQUIREMENTS IN ANSI A137.1 "SPECIFICATIONS FOR CERAMIC TILE" FOR PRODUCTS AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS. FLOOR TILE SHALL HAVE A STATIC COEFFICIENT OF FRICTION OF 0.6 OR GREATER PER ASTM C
- D. <u>INSTALLATION MATERIALS</u>

BACKER BOARD)

- TYPICAL INTERIOR INSTALLATIONS: LATEX/POLYMER MODIFIED PORTLAND CEMENT COMPLYING WITH ANSI A108.5 AND ANSI 118.4. GLASS TILE: PER TILE MANUFACTURER'S RECOMMENDATIONS
- 2. GROUT:UNSANDED FOR JOINTS 1/16" WIDTH OR LESS, SANDED FOR JOINTS GREATER THAN 1/16" IN COLOR INDICATED OR TO BE SELECTED. TYPICAL INTERIOR INSTALLATIONS: STANDARD CEMENT GROUT, FOOD SERVICE, BUILDING LOBBIES, AND RESTROOMS: WATER-CLEANABLE EPOXY 3. SETTING BED ACCESSORIES: ANSI A 108.1A
- INSTALLATION METHODS: COMPLY WITH TILE INSTALLATION STANDARDS IN ANSI'S 'SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" AND TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" THAT APPLY TO THE MATERIALS AND METHODS INDICATED BELOW: PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINTS IN SLAB. AT ALL LOCATIONS WHERE TILE EDGES ARE DESIGNED TO BE EXPOSED, FACTORY
- EDGES SHALL BE EXPOSED IN LIEU OF CUT EDGES. 1. EXTERIOR CONCRETE WALKWAYS AND PATIOS: TCA F102 (THIN-SET MORTAR BONDED TO ON-GRADE CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE
- 3. ELEVATED CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SLAB) IF FLOOR IS SUBJECT TO MOVEMENT AND DEFLECTION CONTACT ARCHITECT FOR FLOORS IN FOOD SERVICE, BUILDING LOBBIES, AND RESTROOMS: TCA F-115 (THIN-SET MORTAR BONDED TO CONCRETE SUBFLOOR WITH EPOXY GROUT)
- OVER CMU OR CONCRETE: TCA W202 (LATEX PORTLAND CEMENT MORTAR OVER OVER GYPSUM BOARD: TCA W243 (THIN-SET MORTAR BONDED TO GYPSUM BOARD) OVER COATED GLASS-MAT BACKER BOARD: TCA W245 (THIN-SET MORTAR BONDED TO
- TERMINATIONS: WHERE CUT TILE IS SPECIFIED AS THE TOP COURSE ON WALL WAINSCOTING OR WALL BASE WITH AN EXPOSED TOP EDGE, THE FACTORY EDGE SHALL BE USED AS THE

G. CONFLICTS: IF NOT ADDRESSED ON DRAWINGS, WHERE ELECTRICAL DEVICES OR TOILET

- ACCESSORIES STRADDLE THE TRANSITION FROM THE TOP EDGE OF WAINSCOT WALL TILE TO GYPSUM BOARD SUBSTRATE, CONTACT ARCHITECT FOR RESOLUTION.
- H. GROUT JOINTS:

  1. JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE AND AS RECOMMENED BY THE MFR. BASED ON THE TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED OTHERWISE. 2. TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE THE SAME SIZE, UNLES INDICATED OTHERWISE.

INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING CARE

TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION. SEALER: AFTER FULLY CURED, GROUT SHALL BE SEALED WITH TWO (2) COATS OF

# COMMERCIAL QUALITY PENETRATING SILICONE SEALER.

CLASSIFICATION II (INTERIOR).

- SUBMITTALS: PRODUCT DATA FOR SETTING AND GROUTING MATERIALS AND THREE (3) SAMPLES OF EACH TILE SPECIFIED FOR VERIFICATION PURPOSES.
- ATTIC STOCK: FURNISH 2% OF EACH TYPE OF STONE TILE PACKAGED WITH PROTECTIVE OVERING AND LABELED FOR STORAGE.

STONE TILE: COMPLY WITH STANDARDS BELOW FOR PRODUCTS, SIZES, THICKNESSES,

- AND FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS. 1. GRANITE: COMPLY WITH ASTM C 615, LIMESTONE: COMPLY WITH ASTM C568, CLASSIFICATION II (MEDIUM DENSITY), OR
- CLASSIFICATION III (HIGH DENSITY MARBLE: COMPLY WITH ASTM C 503, CLASSIFICATION I (CALCITE), OR CLASSIFICATION II (DOLOMITE).

4. SLATE: COMPLY WITH ASTM C 629 CLASSIFICATION I (EXTERIOR), OR

- TRAVERTINE: COMPLY WITH ASTM C 1527 CLASSIFICATION I (EXTERIOR), OR CLASSIFICATION II (INTERIOR) SETTING AND GROUTING MATERIALS: COMPLY WITH THE MATERIALS STANDARDS IN
- THE MATERIALS AND METHODS INDICATED. 2. FLOOR SEALER: COLORLESS, SLIP AND STAIN RESISTANT, NOT AFFECTING COLOR OR PHYSICAL PROPERTIES OF STONE SURFACES.

ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" THAT APPLY TO

INSTALLATION METHODS: COMPLY WITH THE TILE INSTALLATION STANDARDS IN ANSI'S "SPECIFICATIONS FOR THE INSTALLATIONS OF CERAMIC TILE" THAT APPLY TO THE MATERIALS AND METHODS INDICATED. ON-GRADE CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE

ELEVATED CONCRETE SLABS: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE

SLAB) IF FLOOR IS SUBJECT TO MOVEMENT AND DEFLECTION CONTACT ARCHITECT

- FOR ALTERNATE METHOD. OVER CMU OR CONCRETE: TCA W202 (LATEX PORTLAND CEMENT MORTAR OVER CONCRETE OR MASONRY). 4. OVER GYPSUM BOARD: TCA W243 (THIN-SET MORTAR BONDED TO GYPSUM BOARD)
- JOINT SIZE: SET TILE WITH THE SMALLEST GROUT JOINT ACHIEVABLE BASED ON THE TILE PRODUCT AND SUBSTRATE CONDITIONS, UNLESS NOTED OTHERWISE.

ACCORDING TO SEALER MANUFACTURER'S WRITTEN INSTRUCTIONS.

THE SAME SIZE, UNLESS INDICATED OTHERWISE.

TILE PATTERN: LAY TILE IN PATTERNS AS INDICATED IN THE CONSTRUCTION

CARE TO AVOID REMOVAL OF GROUT COLOR BY USE OF EXCESS WATER DURING INSTALLATION. FADED OR CHALKY GROUT SHALL BE CAUSE FOR REJECTION. SEALER: AFTER FULLY CURED AND CLEANED, TILE AND GROUT SHALL BE SEALED

DOCUMENTS. ALIGN JOINTS WHERE ADJOINING TILES ON FLOOR AND BASE ARE

INSTALLATION: INSTALL GROUT PER MANUFACTURER'S INSTRUCTIONS, EXERCISING

### 095123 ACOUSTICAL TILE CEILINGS

- A. <u>SUBMITTALS</u>: PRODUCT DATA
- B. <u>ATTIC STOCK</u>: FURNISH 2% OF EACH TYPE OF CEILING TILE PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR STORAGE.
- ACOUSTICAL TILE PRODUCTS: PROVIDE CEILING TILE IN TYPE AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM E 1264, CLASS A MATERIALS, TESTED PER
  - <u>SUSPENSION SYSTEM</u>: PROVIDE HEAVY DUTY, DIRECT-HUNG, SUSPENSION SYSTEMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS COMPLYING WITH ASTM C 635. FURNISH ALUMINUM GRID IN SHOWERS, KITCHENS, AND OTHER HIGH-HUMIDITY AREAS.
- 1. ATTACHMENT DEVICES: SIZE FOR FIVE (5) TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, DIRECT HUNG UNLESS OTHERWISE INDICATED. WIRE HANGERS, BRACES, AND TIES: ZINC-COATED CARBON-STEEL WIRE; ASTM A 641/ (A
- 641 M), CLASS 1 ZINC COATING, SOFT TEMPER WITH A YIELD STRENGTH AT LEAST THREE (3) TIMES THE HANGER DESIGN LOAD (ASTM C 635, TABLE 1, DIRECT HUNG), BUT NOT LESS THAN 0.135" DIAMETER WIRE.
- SEISMIC STRUTS: MANUFACTURER'S STANDARD PRODUCT DESIGNED TO ACCOMMODATE SEISMIC FORCES. HOLD-DOWN CLIPS: PROVIDE HOLD-DOWN CLIPS ON CEILING TILE IN ENTRANCE VESTIBULES, COMPUTER ROOMS EMPLOYING DRY CHEMICAL FIRE-SUPPRESSION
- SYSTEMS, AND OTHER AREAS AS INDICATED. E. <u>INSTALLATION</u>: COMPLY WITH ASTM C 636 AND CISCA'S "CEILING SYSTEMS HANDBOOK" SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL
- BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATION ACTIVITIES HAVE TERMINATED, AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED.
- INSTALL CEILING GRID AS INDICATED TO BE SYMMETRICAL ABOUT BOTH AXES OF EACH ROOM USING NOT LESS THAN HALF-SIZE TILE UNLESS INDICATED OTHERWISE ON THE REFLECTED CEILING PLAN.
- SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6" OF EACH CORNER OR SUPPORT FIXTURES INDEPENDENTLY. PROVIDE MATCHING PERIMETER MOLDING INSTALLED IN BEAD OF ACOUSTICAL SEALANT AT ALL LOCATIONS WHERE CEILING INTERSECTS VERTICAL SURFACES. USE MATCHING

SUPPORT SUSPENSION SYSTEM INDEPENDENTLY OF DUCTS, PIPES, AND CONDUITS.

BASE INSTALLATION.

096513 RESILIENT BASE AND ACCESSORIES A. <u>SUBMITTALS</u>: PRODUCT DATA AND THREE (3) SAMPLES OF EACH TILE AND BASE SPECIFIED FOR

PRE-FORMED CLOSURES AT ROUND OR CURVED OBSTRUCTIONS.

VERIFICATION PURPOSES. B. <u>ATTIC STOCK</u>: FURNISH 20' OF EACH COLOR AND TYPE OF WALL BASE PACKAGED WITH

6. FIELD-CUT EDGES SHALL MATCH PROFILE OF FACTORY EDGES.

PROTECTIVE COVERING AND LABELED FOR STORAGE. RESILIENT WALL BASE: ASTM TYPE TS (RUBBER, VULCANIZED THERMOSET) 1/8" THICK,

TILE IS EXPOSED AS INDICATED IN THE FINISH SCHEDULE.

WITH JOB-FORMED INSIDE AND OUTSIDE CORNERS. D. WALL BASE AND ACCESSORY INSTALLATION: CONFIRM THAT SOLID BACKING IS PROVIDED BEHIND ALL WALL BASE. AREAS WHERE

FURNISHED IN COILS IN STYLES AND SIZES INDICATED IN THE CONSTRUCTION DOCUMENTS

GYPSUM BOARD IS HELD MORE THAN 1/2" ABOVE SLAB SHALL BE FILLED IN PRIOR TO

INSTALL WALL BASE WITH MANUFACTURER'S RECOMMENDED ADHESIVE IN MAXIMUM LENGTHS POSSIBLE. APPLY TO WALLS, COLUMNS, PILASTERS, CASEWORK, AND OTHER PERMANENT FIXTURES INSTALL TRANSITION STRIPS WHERE FLOORING MATERIALS MEET OR WHERE EDGE OF

# 097200 WALL COVERINGS

- A. <u>SUBMITTALS</u>: THREE (3) SAMPLES OF EACH WALLCOVERING SPECIFIED FOR VERIFICATION
- ATTIC STOCK: FURNISH FULL-WIDTH ROLLS OF EACH WALLCOVERING EQUAL TO 5% OF AMOUNT OF EACH TYPE INSTALLED, PACKAGED WITH PROTECTIVE COVERING AND LABELED FOR
- PRODUCTS: PROVIDE WALLCOVERING IN PATTERNS AND COLORS AS INDICATED IN THE CONSTRUCTION DOCUMENTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF NOT MORE THAN 25 AND 450 RESPECTIVELY, PER ASTM E 84. ORDER ALL MATERIALS FROM THE SAME FACTORY DYE LOT.
- INSTALLATION

  1. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR WALLCOVERING BOND, INCLUDING MOLD, MILDEW, OIL, GREASE, INCOMPATIBLE PRIMERS AND DIRT AND PRIME PRIME NEW GYPSUM BOARD WITH PRIMER RECOMMENDED BY WALLCOVERING
- INSTALLATION AREAS NOT LESS THAN 24 HOURS PRIOR TO INSTALLATION. INSTALL SEAMS VERTICAL AND PLUMB, WITH NO HORIZONTAL SEAMS, AND NO OVERLAPPED SEAMS UNLESS "RAILROADING" IS SPECIFIED ON THE CONSTRUCTION DOCUMENTS. MATCH OR RANDOM MATCH PATTERN AND REVERSE HANG WHEN

CLEANING: REMOVE EXCESS ADHESIVE AT FINISHED SEAMS, PERIMETER EDGES, AND

ACCLIMATIZE WALLCOVERING MATERIALS BY REMOVING THEM FROM PACKAGING IN THE

WHERE WALL SURFACES EXTEND INTO THE SAME PLANE AS VERTICAL FACES OF CEILING

SOFFITS, CONTACT ARCHITECT FOR INSTRUCTIONS ON FINISHING OF VERTICAL FACES.

#### ADJACENT SURFACES USING CLEANING METHODS RECOMMENDED BY WALLCOVERING MANUFACTURER.

INDICATED IN MANUFACTURER'S INSTRUCTIONS

COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.

OTHER SURFACE IMPERFECTIONS.

097720 FIBERGLASS REINFORCED PLASTIC PANELS (FRP) A. INSTALL FRP PANELS TO 8'-0" HIGH AND INCLUDING TRIM AND ACCESSORIES HIGH ON ALL

## WALLS BEHIND JANITIOR SINKS AND MOP BASINS (COLOR TO BE SELECTED).

- B. <u>ATTIC STOCK</u>: FURNISH ONE (1) GALLON OF EACH PAINT COLOR AND SHEEN, IN CONTAINERS, PROPERLY LABELED AND SEALED. PRODUCTS: PROVIDE MANUFACTURER'S BEST QUALITY PAINTS OF COLOR AND SHEEN AS INDICATED IN THE CONSTRUCTION DOCUMENTS THAT ARE FORMULATED AND RECOMMENDED

BY MANUFACTURER FOR APPLICATION INDICATED. PROVIDE MATERIALS THAT ARE

A. <u>SUBMITTALS</u>: PRODUCT DATA AND THREE (3) DRAW-DOWN SAMPLES OF EACH COLOR AND SHEEN SPECIFIED.

EQUIPMENT: APPLY COATINGS BY BRUSH, ROLLER, SPRAY, OR OTHER APPLICATORS ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. WHEN SPRAYED, EXTERIOR COATINGS SHALL BE BACK-ROLLED FOLLOWING SPRAY APPLICATION. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS. PIGMENTED (OPAQUE) FINISHES: COMPLETELY COVER SURFACES TO PROVIDE A

SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE. PROVIDE A FINISH FREE OF

CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, RUNS, SAGS, ROPINESS, OR

- 3. TRANSPARENT (CLEAR) FINISHES: USE MULTIPLE COATS TO PRODUCE A GLASS-SMOOTH SURFACE FILM OF EVEN LUSTER. PROVIDE A FINISH FREE OF LAPS, RUNS, CLOUDINESS, COLOR IRREGULARITY, BRUSH MARKS, ORANGE PEEL, NAIL HOLES OR OTHER SURFACE
- E. <u>PAINT SYSTEMS EXTERIOR</u>: PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE EXTERIOR 1. FERROUS METAL: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER RUST-INHIBITIVE ZINC-COATED METAL: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER GALVANIZED METAL
- ALUMINUM: SEMIGLOSS ALKYD ENAMEL: TWO COATS OVER PRIMER PAINT SYSTEMS - INTERIOR: PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE INTERIOR SUBSTRATE INDICATED

WOODWORK: SEMI-GLOSS ALKYD ENAMEL: TWO COATS OVER PRIMER

STAINED WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER AND NATURAL FINISH WOODWORK: ALKYD-BASED, SATIN VARNISH: TWO COATS OVER SEALER FERROUS METAL: SEMIGLOSS ACRYLIC ENAMEL: TWO COATS OVER FERROUS METAL

ZINC COATED METAL: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER

GYPSUM BOARD: ACRYLIC ENAMEL; SHEEN AS INDICATED: TWO COATS OVER PRIMER

#### GALVANIZED METAL PRIMER - END DIVISION 9



LOT 20 - HUB

2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081 Project No.: 19050.02 08/06/2021 Issued For: PERMIT SET REVISIONS

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REGISTRATION



PROJECT TEAM ARCHITECT FINKLE+WILLIAMS ARCHITECTURE

HOERR SCHAUDT / LANDSCAPE

FOUNDATIONS

STRUCTURAL

MECHANICAL

CIVIL

**ENGINEERS** PLUMBING HENDERSON **ENGINEERS** 

ELECTRICAL HENDERSON **ENGINEERS** FIRE PROTECTION HENDERSON

CONTRACTOR FOGEL ANDERSON

BSE STRUCTURAL

BSE STRUCTURAL

**ENGINEERS** 

HENDERSON

**ENGINEERS** 

www.finklewilliams.com

SHEET TITLE

**PROJECT** 

**SPECIFICATIONS** 

8787 RENNER BLVD., SUITE 100

LENEXA, KANSAS 66219

913 .498.1550

ARCHITECTURE

#### 122413 ROLLER WINDOW SHADES

- PRODUCT DATA FOR EACH PRODUCT TYPE MATERIAL SAMPLES FOR SHADE FABRIC OPTIONS AND FASCIA OPTIONS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE PATTERNS AND COLORS SHOP DRAWINGS SHOWING FABRICATION AND INSTALLATION DETAILS
- 4. OPERATION AND MAINTENANCE DATA
- B. WARRANTIES: ROLLER SHADE HARDWARE, CHAIN, AND SHADECLOTH: 10 YEARS
- ACCEPTABLE MANUFACTURERS: MECHOSHADE SYSTEMS, INC., HUNTER-DOUGLAS CONTRACT, WT SHADE, OR APPROVED EQUAL. MUST OBTAIN ROLLER SHADES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
- BASIS OF DESIGN: MANUAL ROLLER SHADE "H100 SOLOMOUNT" BY WT SHADE OR APPROVED EQUAL. PROVIDE WITH FRONT FACSIA (WHITE) OR CLOSURE MOUNT WITH TILE SUPPORT AND REMOVABLE CLOSURE TRIM (WHITE) AS INDICATED IN THE DRAWINGS. CONFIGURATION: ONE-PIECE UNITS EXTENDING FROM WINDOW HEAD TO SILL, UNLESS NOTED OTHERWISE. SEE CONSTRUCTION DRAWINGS FOR MOUNTING LOCATION.
- TYPE: MANUALLY OPERATED, CHAIN DRIVEN, SUNSCREEN ROLLER SHADES. SHADE CLOTH: VISUALLY TRANSPARENT SINGLE THICKNESS, NON-RAVELING, ANTI-STATIC, FADE AND STAIN RESISTANT FABRIC CONTAINING PVC, POLYESTER, OR VINYL
- RANGING FROM 6.00 OZ/SQ. YD 20.70 OZ. SQ. YD. IN PATTERNS AND COLORS TO BE SELECTED FOM MANUFACTURER'S FULL AVAILABLE RANGE. a. ECOFABRIX: 253-89 (GRAY BLACK)
- b. OPENNESS FACTOR: 1% c. FIRE-TEST RESPONSE CHARACTERISTICS: COMPLY WITH NFPA 701-99 ACCESSORIES:
- a. FASCIA: FURNISH CONTINUOUS REMOVABLE EXTRUDED ALUMINUM FASCIA TO FULLY CONCEAL BRACKETS, SHADE ROLLER, AND FABRIC ON THE TUBE THAT ATTACHES TO SHADE MOUNTING BRACKETS WITHOUT THE USE OF ADHESIVES, MAGNETIC STRIPS OR EXPOSED FASTENERS. PROVIDE END CAPS WHERE WHERE
- MOUNTING CONDITIONS EXPOSE OUTSIDE OF ROLLER SHADE BRACKETS. b. SHADE POCKET: WHERE INDICATED, FURNISH EXTRUDED ALUMINUM SHADE POCKETS WITH EXPOSED EXTRUDED ALUMINUM CLOSURE MOUNT, TILE SUPPORT, AND REMOVABLE CLOSURE PANEL TO PROVIDE ACCESS TO SHADES.
- <u>INSTALLATION</u>: FURNISH AND INSTALL SHADES ON ALL EXTERIOR GLASS EXCEPT LOBBY AND /ESTIBULE GLASS, UNLESS NOTED OTHERWISE. 1. INSTALL SHADES AFTER FINISH WORK IS COMPLETE AND AMBIENT TEMPERATURE AND
- HUMIDITY ARE AT LEVELS INTENDED FOR OCCUPANCY. 2. ADJUST AND BALANCE SHADES TO OPERATE SMOOTHLY, EASILY, SAFELY, AND FREE FROM BINDING THROUGH ENTIRE OPERATIONAL RANGE, FABRIC SHALL HANG STRAIGHT WITHOUT CURLING OR RAVELING AND SHALL NOT SHIFT MORE THAN 1/8" IN EITHER DIRECTION PER 8' OF SHADE HEIGHT DUE TO WARP DISTORTION OR WEAVE DESIGN.

### - END DIVISION 12 -

#### **DIVISION 10 - SPECIALTIES**

### 102800 TOILET AND BATH ACCESSORIES:

3. CLEAN SURFACES JUST PRIOR TO OCCUPANCY.

REFERENCE CONSTRUCTION DRAWINGS FOR TYPE, QUANTITY, AND LOCATIONS OF TOILET AND BATH ACCESSORIES.

## - END DIVISION 10

#### **DIVISION 14 - CONVEYING SYSTEMS**

#### 14123.16 MACHINE ROOM-LESS ELECTRIC TRACTION PASSENGER ELEVATORS

- SHOP DRAWINGS INCLUDING PLANS, ELEVATIONS, SECTIONS AND DETAILS OF ASSEMBLY, ERECTION, ANCHORAGE, RAIL BRACKETS, INSERTS, BLOCK-OUTS, CUTOUTS AND EQUIPMENT IN MACHINE ROOM, AND CABS WITHIN HOSITWAY. INDICATE DETAILED ELECTRICAL REQUIREMENTS AND LOADS IMPOSED ON THE STRUCTURE.
- PRODUCT DATA INDICATING COMPLIANCE WITH REQUIREMENTS. FINISH SAMPLES

INSPECTION AND ACCEPTANCE CERTIFICATES AND OPERATING PERMITS AS REQUIRED BY

- **AUTHORITIES HAVING JURISDICTION** WARRANTY: MANUFACTURER'S STANDARD WRITTEN WARRANTY AGREEING TO REPAIR. RESTORE, OR REPLACE DEFECTS IN ELEVATOR WORK FOR A PERIOD OF (12) MONTHS FROM TEH DATE OF SUBSTANTIAL COMPLETION. FURNISH MAINTENANCE AND CALL BACK SERVCIE FOR A PERIOD OF 12 MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION.
- B. <u>ELEVATORS</u>: BASIS OF DESIGN: KONE MACHINE ROOM-LESS, ECOSPACE PROVIDE ELEVATOR(S) COMPLYING WITH ASME A17.1, SECTION 4.10 OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, SECTION 407 OF ICC ANSI A117.1, AND THE
- FOLLOWING:
- 1. ELEVATOR #1 AND 2 (PASSENGER): a. RATED LOAD: 2500 LB
  - RATED SPEED: 110 FPM
- CAB HEIGHT: 10'-0" DOOR HEIGHT: 8'-0" e. ACCOMODATE PORCELAIN FLOOR TILE IN WEIGHT CAPACITY

# C. <u>CAR ENCLOSURES AND ENTRANCES</u>: DOOR, FRAME, AND FRONT WALL INCLUDING CONTROL PANEL: ASTM A666, TYPE 304,

- STAINLESS STEEL, WITH NO. 4 SATIN FINISH, BOTH FACES. DOOR FRAME SHALL HAVE 11/2-2" WIDE FACES.
- REAR AND SIDE WALLS: a. REINFORCED ENAMELED STEEL CAB WALLS PREPARED FOR CUSTOM APPLIED
- FINISHES AND WITH SOUND DEADENING MATERIAL APPLIED TO THE EXTERIOR OF THE CAB WALLS.
- REINFORCED ENAMELED STEEL CAB WALLS WITH REMOVABLE PLASTIC LAMINATE PANELS AND WITH SOUND DEADENING MATERIAL APPLIED TO THE EXTERIOR OF THE
- CAB WALLS. 3. CEILING: REFERENCE FINISH SCHEDULE AND NOTES FLOOR: SUBFLOOR DESIGNED TO RECEIVE PORCELAIN TILE, REFERENCE FINISH
- SCHEDULE AND NOTES. 5. HANDRAILS: MANUFACTURER'S STANDARD SATIN STAINLESS STEEL PIPE RAIL ON REAR
- 6. SILL: EXTRUDED ALUMINUM WITH GROOVED SURFACE, 1/4" THICKNESS. 7. PROTECTION PADS: FURNISH ONE (1) SET OF STUDS AND PROTECTION PADS PER

# D. <u>OPERATING SYSTEM</u>: AS DEFINED IN ASME A17.11. SIMPLEX

ELEVATOR.

- ILLUMINATED HALL-CALL AND CAR-CALL BUTTONS: SATIN STAINLESS STEEL LOCATED BESIDE (NOT IN) DOOR FRAME.
- CONTROL STATION: RECESSED NO. 4 SATIN STAINLESS STEEL EMERGENCY COMMUNICATION SYSTEM: COMPLY WITH ASME A17.1 AND THE AMERICANS
- WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. 4. CAR POSITION INDICATOR: LOCATED IN CAB ABOVE CAR DOOR OR CAR CONTROL
- STATION. ALSO INCLUDE AUDIBLE SIGNAL TO INDICATE CAR IS EITHER STOPPING OR PASSING A FLOOR; INCLUDE DIRECTION ARROWS.
- 5. HALL LANTERNS WITH ILLUMINATED ARROWS: MATCH FINISH OF HALL PUSH BUTTON
- STATIONS. MOUNT ABOVE DOOR FRAME. 6. HALL POSITION INDICATOR: MATCH FINISH OF HALL PUSH BUTTON STATIONS. MOUNT
- ABOVE EACH HOISTWAY ENTRANCE AT GROUND FLOOR. DOOR REOPENING DEVICES, INFRARED ARRAY: UNIFORM ARRAY OF 36 OR MORE MICROPROCRESSOR-CONTROLLED INFRARED LIGHT BEAMS PROJECTING ACROSS CAR ENTRANCE. INTERRUPTION OF ONE OR MORE OF THE LIGHT BEAMS CAUSES DOORS TO

STOP AND REOPEN.

- INSTALLATION:
  1. DRILL HOLES AND INSTALL CYLINDER IN PROTECTIVE CASING WITHIN WELL HOLES OR
- CASINGS AFTER REMOVING WATER AND DEBRIS. ALIGN CYLINDER, ANCHOR SECURELY IN PLACE AT PIT FLOOR, AND FILL VOIDS WITH FINE
- 3. SEAL BETWEEN WELL CASING, PROTECTIVE CASING OR CYLINDER AND PIT FLOOR WITH 4" OF NONSHRINK, NONMETALLIĆ GROUT
- ADJUST ELEVATOR FOR 1/4" LEVELING TOLERANCE.
- 5. SET SILLS FLUSH WITH FINISH FLOOR AND FILL SPACE UNDER SILLS SOLID WITH NONSHRINK, NONMETALLIC GROUT.
- 6. RESTORE ANY STAINLLESS STEEL FINISHES DAMAGED DURING CONSTRUCTION.

#### - END DIVISION 14 -

### **DIVISION 15 - MECHANICAL**

SEE MECHANICAL PLANS AND SPECIFICATIONS

# **DIVISION 16 - ELECTRICAL**

SEE ELECTRICAL PLANS AND SPECIFICATIONS

# **DIVISION 21 - FIRE SUPPRESSION**

- 283100 FIRE ALARM A. SEE ELECTRICAL PLANS FOR SPECIFICATION OF FIRE ALARM SYSTEMS.
- HORN/STROBE DEVICES: HORN/STROBE DEVICES SHALL BE "WHITE" AND SHALL BE CEILING MOUNTED TO MAXIMUM EXTENT FEASIBLE; WALL-MOUNTED WHERE NECESSARY.

# 210500 FIRE SUPPRESSION SYSTEMS

GYPSUM BOARD CEILINGS.

- SEE MECHANICALPLANS FOR SPECIFICATIONS OF FIRE SUPPRESSION SYSTEMS SUBMITTALS: SHOP DRAWINGS INDICATING LAYOUT AND PROPOSED HEIGHTS OF PIPING AND HEADS, AND PRODUCT DATA FOR VALVES, HEADS, AND ALARMS, INCLUDING CALCULATIONS. SUBMIT REQUIRED NUMBER OF SETS TO AUTHORITIES HAVING JURISDICTION FOR REVIEW,
- COMMENT, AND APPROVAL. SPRINKLER HEADS AND ESCUTCHEONS: IN SUSPENDED ACOUSTICAL TILE CEILINGS, SPRINKLER HEADS SHALL BE PENDANT SEMI-RECESSED CHROME PLATED WITH CHROME PLATED ESCUTCHEONS. IN GYSPUM BOARD CEILINGS SPRINKLER HEADS SHALL BE CONCEALED WITH
- WHITE ENAMEL COVERS. LAYOUT: SPRINKLER HEADS SHALL BE LAID OUT TO FALL IN "CENTER-OF-TILE" WHEN INSTALLED IN SUSPENDED ACOUSTICAL TILE CEILINGS AND SHALL BE LAID OUT SYMMETRICALLY IN



2151 NW PARAGON PKWY LEE'S SUMMIT, MO 64081

Project No.:		19050.02		
Date:		08/06/2021		
Issued For:		PERMIT SET		
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No.	Date	Description		
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REGISTRATION



PROJE	CT TEAM
ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA
LANDSCAPE	HOERR SCHAUDT LAND3
FOUNDATIONS	BSE STRUCTURAL ENGINEERS
STRUCTURAL	BSE STRUCTURAL ENGINEERS
PLUMBING	HENDERSON ENGINEERS
MECHANICAL	HENDERSON ENGINEERS
ELECTRICAL	HENDERSON ENGINEERS
FIRE PROTECTION	HENDERSON ENGINEERS
CONTRACTOR	FOGEL ANDERSON



8787 RENNER BLVD., SUITE 100 LENEXA, KANSAS 66219 913 .498.1550 www.finklewilliams.com

SHEET TITLE

**PROJECT SPECIFICATIONS**