

### **CODE INFORMATION**

AUTHORITIES HAVING JURISDICTION:	CITY OF ST.LOUIS, MISSOURI ST.LOUIS FIRE PROTECTION DISTRICT
BUILDING CODE:	2009 ICC INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS
ACCESSIBILITY:	AMERICANS WITH DISABILITIES ACT 2009 ICC/ANSI A117.1, REFERENCED BY BUILDING CODE
EXISTING BUILDING CODE:	2009 ICC INTERNATIONAL EXISTING BUILDING CODE WITH LOCAL AMENDMENTS
FIRE PREVENTION:	2009 ICC INTERNATIONAL FIRE CODE WITH LOCAL AMENDMENTS
MECHANICAL:	2009 ICC INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS
ELECTRICAL:	2011 NFPA NATIONAL ELECTRIC CODE WITH LOCAL AMENDMENTS
PLUMBING:	2009 ICC UNIFORM PLUMBING CODE WITH LOCAL AMENDMENTS
PROPERTY MAINTENANCE:	2009 ICC INTERNATIONAL PROPERTY MAINTENANCE CODE WITH LOCAL AMENDMENTS
ENERGY:	2009 ICC INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS
<u>GAS:</u>	2009 ICC INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS

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- C12 STORM WATER POLLUTION PREVENTION PLAN DETAILS L-101 LANDSCAPE PLANTING PLAN
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- A-703 SECTIONS WALL
- A-704 SECTIONS WALL
- A-705 SECTIONS WALL

USE GROUPS

BUSINESS **CONSTRUCTION TYPE** 

<u>SEISMIC CATEGORY</u>

BUILDING AREA AND HEIGHT: AREA: 22,956 SF HEIGHT: 1 STORY, 122'-

OCCUPANCY LOAD CALCULAT ACTUAL G FLOOR: FIRST FLOOR 22,956 \$

\* REFER TO LIFE SAFETY PLANS OCCUPANT LOAD

TYPE AND MEANS OF EGRESS: REFER TO LIFE SAFETY PLANS ON SHEET A-003

ALLOWABLE HEIGHT AND AREA: USE GROUP B IS MOST RESTRICTIVE

TABLE 601 FIRE-RESISTANCE R BUILDING ELEMENT STRUCTURAL FRAME, COLUMN **BEARING WALLS - EXTERIOR / I** NON-BEARING WALLS & PARTIT FLOOR CONSTRUCTION INCLUDING BEAMS & JOIST ROOF CONSTRUCTION INCLUD

1015.1 MINIMUM REQUIRED EC THE MEANS OF EGRESS WIDTH CALCULATED. MEANS OF EGRE DOORS/AISLES - 0.20" PER OCCUPANT

<u>1016.1 EXIT ACCESS TRAVEL DISTANCE:</u> DISTANCE IS 300'

1-500 OCCUPANTS: 2 REQUIRED NUMBER OF EXITS PROVIDED: 24

OCCUPANCY CALCULATIONS: OCCUPANCY TYPE ACCESSORY STORAGE AREAS

BUSINESS AREAS TOTAL DESIGN OCCUPANCY LOAD

A-801	DETAILS - BUILDING - AXONS
A-802	DETAILS - BUILDING - SECTION
A-803	DETAILS - BUILDING - SECTION
A-804	DETAILS - BUILDING - SECTION
A-805	DETAILS - BUILDING - PLAN DET
A-806	DETAILS - BUILDING - PLAN DET
A-901	DOOR SCHEDULE / DOOR, FRAM
A-902	PARTITION TYPES
A-903	DETAILS - INTERIOR
A-904	DETAILS - EXTERIOR
E-100	FIBER OPTIC CABLE ROUTE
E-101	POWER/DATA PLAN
S1.0	GENERAL NOTES & TYPICAL DE
S2.0	FOUNDATION PLAN
S3.0	FOUNDATION SECTIONS AND D
S4.0	ENTRY PLAN AND SECTIONS

A-500 FINISH LEGEND & DETAILS A-501 FINISH PLAN A-601 ELEVATIONS - EXTERIOR



PROJECT LOCATION

### **BUILDING INFORMATION**

TYPE IIB FULLY SPRINKLERED

### REFER TO GEOTECHNICAL REPORT AND CISCA GUIDELINES FOR REOUIREMENTS

1" TO HIGHEST EAV	e point
I <u>ONS:</u> GSF 9 SF	DESIGN OCCUPANCY*: 266 OCCUPANTS
IS ON SHEET A-003	FOR INDIVIDUAL ROOM

### TABLE 503: ALLOWABLE BUILDING HEIGHTS AND AREAS: 3 STORIES AND 23,000 SF 506.3 AUTOMATIC SPRINKLER INCREASE: 300% FOR ONE STORY ABOVE GRADE PLANE MODIFIED ALLOWABLE AREA IS 23,000SF + (3 X 23,000) = 92,000 SF

ATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)					
	RATING (HOURS)				
NS, GIRDERS & TRUSSES	0				
INTERIOR	0				
TIONS -INTERIOR	0				
	-				

IDING BEAMS & JUIST	0	
DING BEAMS & JOIST	0	
RESS WIDTH		
H MUST BE SUFFICIENT FOR TH	IE OCCUPANT LOAD AS	
ESS WIDTH IS DETERMINED BY	DIVIDING THE CLEAR	
IENT DV THE ADDOODDIATE EAG		

WIDTH OF EACH EXIT COMPONENT BY THE APPROPRIATE FACTOR NOTED BELOW:

FOR FULLY SPRINKLERED ASSEMBLY USE GROUP THE MAXIMUM EXIT ACCESS TRAVEL

### TABLE 1021.1 MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD:

 TABLE 1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

 FLOOR AREA PER OCCUPANT CALCULATED OCCUPANTS 300 SF 100 SF

### **DRAWING INDEX**

IG - SECTION DETAILS **G** - SECTION DETAILS

G - SECTION DETAILS G - PLAN DETAILS

G - PLAN DETAILS

/ DOOR, FRAME AND WINDOW TYPES

TYPICAL DETAILS

TIONS AND DETAILS SECTIONS

### **DESIGN STANDARDS AND REQUIREMENTS**

1. THE FOLLOWING DESIGN CRITERIA SHALL BE USED:

- a. 1.15 WIND IMPORTANCE FACTOR (FOR CLADDING)
- b. GROUND ROUGHNESS "B" c. ENCLOSED BUILDING CLASSIFICATION
- d. 90 MPH WIND SPEED e. 20 PSF GROUND SNOW LOAD
- f. 3.5 IN./HR. RAINFALL INTENSITY
- INSTALL SEISMIC GAS SHUTOFF VALVE (SGSV) ON ALL INCOMING FLAMMABLE GAS OR IGNITABLE LIQUID LINES.
- PROVIDE ADEQUATE RESTRAINT FOR EQUIPMENT USING FLAMMABLE GAS AND FREESTANDING ELECTRICAL CABINETS ON FLOORS OR EQUIPMENT PADS.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN RIGID PIPE CARRYING FLAMMABLE MATERIAL AND POINT-OF-USE EOUIPMENT
- ENSURE FIRE PROTECTION SYSTEMS MEET THE EARTHQUAKE PROTECTION REQUIREMENTS IN FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEETS 2-8, EARTHQUAKE PROTECTION FOR WATER-BASED FIRE PROTECTION SYSTEMS.
- ENSURE FIRE PROTECTION SYSTEMS MEET THE EARTHQUAKE PROTECTION REQUIREMENTS IN FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEETS 3-26, FIRE PROTECTION WATER DEMAND FOR NON STORAGE SPRINKLERED PROPERTIES. THE FOLLOWING DESIGNS SHOULD BE USED.
  - a. HAZARD CATEGORY 1 (HC-1) AREAS SUCH AS CLASSROOMS, OFFICES, RESTROOMS, AND OTHER ASSOCIATED LIGHT HAZARD AREAS SHOULD BE DESIGNED TO PROVIDE A 0.10 GPM/SQ. FT. OVER 1,500 SQ. FT. WITH MINIMUM K5.6 SPRINKLERS. THE DESIGN SHOULD INCLUDE A 250 GPM HOSE STREAM ALLOWANCE.

b. HAZARD CATEGORY 2 (HC-2) AREAS, SUCH AS WORK CELLS, AND LARGE MECHANICAL ROOMS AND ELECTRICAL ROOMS, SHOULD BE DESIGNED TO PROVIDE A 0.20 GPM/SQ. FT. OVER 2,500 SQ. FT. WITH MINIMUM K8.0 SPRINKLERS. THE DESIGN SHOULD INCLUDE A 250 GPM HOSE STREAM ALLOWANCE.

TO MAINTAIN THE PROPER FIRE AND WIND UPLIFT PRESSURE RATINGS, THE PROPOSED ROOF SYSTEMS SHOULD BE FM APPROVED AS WELL AS DESIGNED IN STRICT ACCORDANCE WITH MINIMUM FM GLOBAL CLASS 1-60 GUIDELINES AS SHOWN IN ROOFNAV AND THE LATEST ISSUES OF FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEETS 1-28, WIND DESIGN, AND 1-29, ROOF DECK SECUREMENT AND ABOVE-DECK ROOF COMPONENTS.

ALL MATERIALS USED IN THIS CONSTRUCTION SHOULD BE, IN ORDER OF PREFERENCE, NONCOMBUSTIBLE, FM APPROVED OR CLASS 1. FM APPROVED PRODUCTS ARE ALL MARKED WITH THE "FM DIAMOND." THIS INCLUDES BUT IS NOT LIMITED TO DUCTS, PIPES, PLASTIC CONSTRUCTION MATERIALS AND INSULATIONS. THE APPROVAL GUIDE, A PUBLICATION OF FM APPROVALS, MAY BE REFERENCED AT www.approvalguide.com.

### **ALTERNATES**

ALTERNATE NO.1: CLASSROOM CARPET

BASE BID: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL SPECIALTY CONCRETE CONC-1 IN ROOMS 112, 113, 114 & 115, AS CALLED OUT ON THE CONTRACT DOCUMENTS.

ALTERNATE: OMIT CONC-1 AND PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL CARPET CPT-1, APPROPRIATE CONCRETE SUBFLOOR, AND TRANSITION ACCESSORIES IN ROOMS 112, 113, 114 & 115, AS CALLED OUT ON SHEET A-501 OF THE CONTRACT DOCUMENTS.

ALTERNATE NO.2: WORK CELL OFFICES

BASE BID: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FULLY CONSTRUCT AND FINISH ROOMS 122, 124, 126, 128, 130 & 132, AS CALLED OUT ON THE CONTRACT DOCUMENTS.

ALTERNATE: PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO EXTEND THE FINISH OF ROOMS 121, 123, 125, 127, 129 & 131 AS REQUIRED BY OMISSION OF ROOMS 122, 124, 126, 128, 130 & 132, AS CALLED OUT ON THE CONTRACT DOCUMENTS.

ALTERNATE NO.3: CLASSROOM OPERABLE PARTITION

BASE BID: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL AN OPERABLE PARTITION, ASSOCIATED WALL POCKET, BULKHEAD AND OVERHEAD STRUCTURAL SUPPORT BETWEEN ROOMS 112 & 114, AS SPECIFIED ON THE CONTRACT DOCUMENTS.

ALTERNATE: OMIT OPERABLE PARTITION, WALL POCKET, BULKHEAD AND OVERHEAD STRUCTURAL SUPPORT AND PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL CONTINUOUS SLOPED ACT-1 CEILING IN ROOMS 112 & 114 AND CONTINUOUS SOFFIT ABOVE DOORS 112B & 114A, AS CALLED OUT ON SHEET A-401 OF THE CONTRACT DOCUMENTS.

ALTERNATE NO.4: WORK CELL OPERABLE PARTITION

BASE BID: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL AN OPERABLE PARTITION AND ASSOCIATED BULKHEAD BETWEEN ROOMS 129 & 131, AS SPECIFIED ON THE CONTRACT DOCUMENTS.

ALTERNATE: OMIT OPERABLE PARTITION AND ASSOCIATED BULKHEAD AND PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL FULL HEIGHT GYP. BD. PARTITION BETWEEN ROOMS 129 & 131, AS SPECIFIED ON SHEET A-201 OF THE CONTRACT DOCUMENTS.

# MANUFACTURING INC. 4301 FINNEY AVE. **ST.LOUIS MO 63113**

VICINITY MAP



ARCHITECT

MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST STREET ST. LOUIS, MO 63103 Г (314) 531-7400 CONTACT: STEVE HOOVER EMAIL · SHOOVER@ IEMASTL C

### FNGINEER

CIVIE ENGINEERING DESIGN CONSULT MO CERTIFICATE OF AUTHORITY 2003004 10820 SUNSET OFFICE DRIVE, SUITE 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET

### **STRUCTURAL** ENGINEER

DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY PGREGORY@DAVIDMASON.COM

### LANDSCAPE

DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025

T (636) 549-9007

CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM

SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL C RCHITECT-OF-RECOR MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET **STRUCTURAL** DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: **KK** PROJECT NUMBER: 18-1260.00 SHEET TITLE: **COVER SHEET** 

# Improvement Plans Building Addition for Ranken Technical College

### LEGEND

EXISTING CONTOURS	— — 433 — —		
PROPOSED CONTOURS	433		
EXISTING STORM SEWER	= $=$ $=$ $=$ $=$ $=$		
PROPOSED STORM SEWER	ST ST		
EXISTING SANITARY SEWER			
PROPOSED SANITARY SEWER	SAN SAN		
RIGHT-OF-WAY			
EASEMENT			
CENTERLINE			
EXISTING TREE	(12*)		
EXISTING SPOT ELEVATION	× 433.28		
PROPOSED SPOT ELEVATION	4 <u>33.28</u> ×		
SWALE			
TO BE REMOVED	T.B.R.		
TO BE REMOVED & RELOCATED	T.B.R.& R.		
TO BE USED IN PLACE	U.I.P.		
ADJUST TO GRADE	A. T.G.		
BACK OF CURB	B.C.		
FACE OF CURB	F.C.		
WATER MAIN	— w — w — w —		
GAS MAIN	GAS GAS		
UNDERGROUND TELEPHONE	TT		
OVERHEAD WIRE	OHE OHE		
UNDERGROUND ELECTRIC	— е — е — е —		
SILTATION CONTROL	x x		
FIRE HYDRANT	×		
POWER POLE			
WATER VALVE	₩V X		
LIGHT STANDARD	¢		

### ABBREVIATIONS

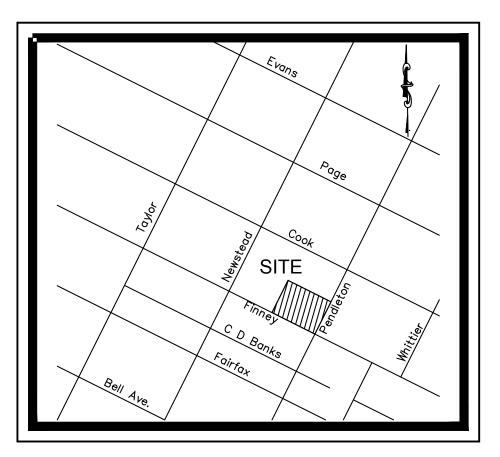
Ν	NORTH
S E	SOUTH
E	EAST
W	WEST
CONC	CONCRETE
ASPH	ASPHALT
PB	PLAT BOOK
DB	DEED BOOK
PG	PAGE
SF	SQUARE FEET
AC	ACRES
ELEV	ELEVATION
FF	FINISH FLOOR
FL	FLOWLINE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
STM	STORM
SAN	SANITARY
(S)	SAVE
(R)	REMOVE
(T.B.R.)	TO BE REMOVED
(T.B.R.&R.)	
H.G.	HYDRAULIC GRADE
D.C.	DOWNSPOUT CONNECTION

Prepared For: JEMA 3005 LOCUST STREET ST. LOUIS, MISSOURI 63103 PH. (314) 531-7400



10820 Sunset Office Drive Suite 200 St. Louis, Missouri 63127

BLOCK 4558 FINNEY AVENUE CITY OF ST. LOUIS, MISSOURI



LOCATION MAP (NOT TO SCALE)

### PROPERTY DATA

	PROP	ERITUATA
	OWNER	= PARCEL #1-#3 - RANKEN TECHNICAL COLLEGE SECONDARY OWNER (BUILDINGS AND GRO PARCEL #4-#6 - DAVID RANKEN JR TECHNICAL COLLEGE SECONDARY OWNER (BUILDINGS AND GRO
:	SITE ADDRESS	= PARCEL #1 - 4301-4309 FINNEY AVENUE (PARCEL 455800 PARCEL #2 - 4321 FINNEY AVENUE (PARCEL 455800270) PARCEL #3 - 4335-4339 FINNEY AVENUE (PARCEL 45580 PARCEL #5 - 4341 FINNEY AVENUE (PARCEL 455800290) PARCEL #4 - 4343 FINNEY AVENUE (PARCEL 455800300) PARCEL #6 - 4345 FINNEY AVENUE (PARCEL 455800310)
:	SITE ACREAGE	= TOTAL 64,579 S.F. $(1.48 \pm AC)$
	₩ATERSHED	= MISSISSIPPI RIVER
	WUNNENBERG'S STREET GUIDE	= PG. 26, I-19
ļ	EXISTING ZONING	= "F" NEIGHBORHOOD COMMERCIAL
	M.S.D. BASE MAP	= 18F4
ł	M.S.D. NO.	= 18MSD - 00284
	UT	TILITIES
ELECTRIC COMPAN	Y = AMERENUE - MACKENZIE 9823 MACKENZIE ROAD ST. LOUIS, MO 63123 PH. (314) 992-9711 CELL (618) 420-2997 ATTN: JIM HOLDENER email: fholdener@ameren.com (PREMISE No. 265505510)	WATER COMPANY = CITY OF ST. LOUIS WATER DIVISION 4600 McREE AVENUE ST. LOUIS, MO 63110 PH. (314) 633–9023 FAX (314) 664–4074 ATTN: MARK NANKIVIL CABLE = CHARTER COMMUNICATIONS MAPPING & DESIGN DEPARTMENT
PHONE COMPANY	<ul> <li>AT&amp;T</li> <li>164 CRESTWOOD PLAZA, SUITE 2</li> <li>ST. LOUIS, MO 63126</li> <li>PH. (314) 963–3846</li> <li>ATTN: ENGINEERING</li> </ul>	941 CHARTER COMMONS

### = LACLEDE GAS COMPANY TURN-OFF & ABANDON PH. (314) 658-5441 ATTN: MS. MARY REYNOLDS

Avenue.

= LACLEDE GAS COMPANY

St. Louis, MO 63101

PH. (314) 658-5499

ATTN: MR. JASON HECK

720 OLIVE STREET, Room 1408

GAS COMPANY

ENGINEERING

GAS COMPANY

SERVICE

# SEWER SERVICE

FIRE DISTRICT

- = CITY OF ST. LOUIS FIRE DEPARTMENT 1421 N. JEFFERSON ST. ST. LOUIS, MO 63106 PH. (314) 289-1900 ATTN: CAPTAIN JOHN WALK, FIRE MARSHAL
- = METROPOLITAN ST. LOUIS SEWER DISTRICT 2350 MARKET STREET ST. LOUIS, MO 63103 PH. (314) 768–6379 ATTN: JODY BROWN, INSPECTIONS, CONNECTIONS AND TAPS

### BENCHMARKS

MSD. City Benchmark 18-F # 108 Elev. 505.14' (NAVD 88 Measured) 505.71' (NGVD 29)(92.02 City Datum Add 413.69' to convert to NGVD 29) - "Triangle" on the water table stone at the Southwest corner of #4307-#4309 Cook Avenue; 80' West of Pendleton

### SITE BENCHMARK

Elev. 506.04' - "O" in (CO) company on fire hydrant as shown on this survey.

### LAND DESCRIPTION

Parcel#1: A Lot In Block No 4558 of the City of St. Louis, fronting 160 feet on the North line of Finney Avenue, by a depth Northwardly of 142 feet 11 Inches, more or lese, to an alley, bounded East by Pendleton Avenue.

Parcel #2: The Western 175 feet of the Eastern 335 feet of Lot 48 of Taylor Place Addition and in City Block 4568 of the City of St. Louis, fronting 175 feet on the North line of Finney Avenue, by a depth Northwardly of 142 feet 11-1/2 inches, more or less, to an alley; bounded East by a line 160 feet West of and parallel to the West line of Pendleton Avenue or by property now or formerly of William Anderson and wife.

Parcel #3: Part of Lot 48 of Taylor Place and in Block 4558 of the City of St. Louis, fronting 58 feet 3 Inches on the North line of Finney Avenue by a depth Northwardly, of equal width of 142 feet 11-1/2Inches, more or less, to an alley 20 feet wide, bounded east by a line parallel to and 335 feet West of the West line of Pendleton Avenue.

Parcel #4: Part of Lot 48 of Taylor Place Addition and in Block 4558 of the City of St. Louis, fronting 14 feet 7-1/2 Inches on the North line of Finney Avenue by a depth Northwardly of 142 feet 11 Inches to the South line of an alley and bounded East by a line 422 feet 4-1/2 inches West of the West line of Pendleton Avenue.

Parcel #5: Part of Lot 48 of Taylor Place Addition and In Block 4558 of the City of St. Louis, fronting 14 feet 6 inches on the North line of Finney Avenue by a depth Northwardly of 142 feet 11 inches to the South line of an alley and bounded East by a line 393 feet 3 inches West of the West line of Pendleton Avenue.

Parcel #6: Part of Lot 48 of Taylor Place Addition and in Block 4558 of the City of St. Louis, fronting 29 feet 1-1/2 Inches on the North line of Finney Avenue by a depth Northwardly of 142 feet 11 inches to the South line of an alley and bounded West by the East line of Lot 9 of Scharff's Addition.

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C12	STORM WATER POLLUTION PREVENTION PLAN DETAILS

ROUNDS DEPT ROUNDS DEPT) 00260) 300280)

### NOTE: CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo. NOTES TO CONTRACTOR:

- 1.) CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARDS TO MAKING CONNECTIONS TO; OR CROSSINGS OF THEIR FACILITIES; WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS. SUCH INVESTIGATION TO INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.
- 2.) THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS, ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.
- 3.) THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.
- 4.) PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE "RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITY", SECTION 10.090 (ADDENDUM).

### NOTE: The underground utilities have been plotted from available sources and their locations must be considered approximate only. The verification of the actual locations of all underground utilities, either shown or not shown on this drawing, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.



MODOT IS NOT A PART OF DIG-RITE. CALL MODOT @ 314-340-4100 BEFORE DIGGING

MISSOURI ONE CALL TICKET NUMBER 180590725 & 180590726 The utilities contacted by Missouri One Call were Ameren Missouri Electric, ATT Distribution, Charter Communications, Spire Mo East, City of St. Louis BPS Water and City of St. Louis BPS Traffic.



18MSD-00284 BASEMAP 18F4

### **GENERAL NOTES**

1.)	ALL UTILITIES SHOWN HAVE BEEN LOCATED FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
2.)	ALL ELEVATIONS ARE BASED ON THE BENCHMARK SHOWN.
3.)	BOUNDARY AND TOPOGRAPHIC SURVEY BY MARLER SURVEYING COMPANY.
4.)	ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ST. LOUIS AND M.S.D.
5.)	ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE CITY OF ST. LOUIS.
6.)	PRIOR TO BEGINNING ANY WORK ON THE SITE, THE SUBCONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
7.)	GRADING CONTRACTOR SHALL INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING. ADDITIONAL SILTATION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY THE CITY OF ST. LOUIS.
8.)	ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS. ALL IMPORT SOILS TO BE PRE-APPROVED BY THE SOILS ENGINEER PRIOR TO IMPORT.
9.)	GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
10.)	PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
11.)	ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF ST. LOUIS AND M.S.D.
12.)	SEEDING, SODDING, MULCHING AND PLANTINGS FOR ALL DISTURBED AREAS SHALL BE SPECIFIED ON THE LANDSCAPE PLAN.
13.)	SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1'V: 20'H. SLOPES GREATER THAN 1'V: 20'H MUST BE DESIGNED AS A RAMP.
14.)	SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ADAA GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADAA GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.
15.)	ALL PUBLIC SIDEWALKS TO BE CONSTRUCTED TO CITY OF ST. LOUIS ADA STANDARDS.
16.)	NO GRADE SHALL EXCEED 3:1 SLOPE UNLESS APPROVED BY GEOTECHNICAL ENGINEER
17.)	STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS.
18.)	ALL LANDSCAPED AREAS TO BE FILLED WITH A MINIMUM OF 6" OF CLEAN TOPSOIL. TOPSOIL REQUIRED TO BE APPROVED BY THE SOILS ENGINEER PRIOR TO IMPORT AND PLACEMENT.
19.)	ALL LANDSCAPED AREAS DISTURBED BY OFF-SITE WORK SHALL BE IMMEDIATELY SEEDED OR SODDED AS DIRECTED BY THE CITY OF ST. LOUIS.
20.)	ADEQUATE TEMPORARY OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES' VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS CLEAN OF DEBRIS AT ALL TIMES.
21.)	ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWER AND DRAINAGE FACILITIES, (LATEST EDITION).
22.)	SIGNAGE PROPOSED FOR THIS SITE SHALL BE IN CONFORMANCE WITH THE ORDINANCE REQUIREMENTS OF THE CITY OF ST. LOUIS.
23.)	SAFETY NOTICE TO CONTRACTOR PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
24.)	ALL PUBLIC ROADS MUST BE KEPT CLEAR OF MUD AND DEBRIS AT ALL TIMES. FAILURE TO DO SO WILL BE CAUSE FOR THE CITY TO SUSPEND WORK.
25.)	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RAZING AND REMOVAL OF THE EXISTING STRUCTURES, INCLUDING FOUNDATIONS, RELATED UTILITIES, PAVING, UNDERGROUND FACILITIES AND ANY OTHER EXISTING IMPROVEMENTS.
26.)	THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING ALL PHASES OF THE CONSTRUCTION.
27.)	THE GENERAL CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR NEW SERVICE AND SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES.
28.)	ALL WORK SHALL BE BE COORDINATED WITH THE OWNER'S TESTING AGENCY.
29.)	DESIGN OF SHORING FOR UTILITY AND SEWER TRENCHES IS THE RESPONSIBILITY OF THE CONTRACTOR.
30.)	THE GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE REPORT WHICH SHALL BE USED AS THE BASIS FOR CONSTRUCTION MEANS AND METHODS.

- 1.) ALL CONCRETE PIPE SHALL BE REINFORCED, AND CONFORM TO A.S.T.M. DESIGNATION C76-80 CLASS III UNLESS NOTED.
- 2.) ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE
- FOR SEWERS AND DRAINAGE FACILITIES, 2009. 3.) TYPE "C" BEDDING PER M.S.D. STANDARDS IS REQUIRED FOR PIPES IN ROCK.
- 4.) ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH M.S.D. STANDARDS.
- 5.) ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED TO 95 PERCENT OF THE STANDARD AASHTO T-99 COMPACTION TEST A.S.T.M. D-698.
- 6.) JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT
- 7.) FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%). VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.
- FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.
- MSD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.
- FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
- 8.) ADJUSTMENT OF MANHOLE TO GRADE: IF A MANHOLE IS TO BE RAISED: MANHOLES MAY BE RAISED USING COURSES OF BRICK OR APPROVED GRADE RING(S). PROVIDED THE TOTAL ADJUSTMENT OF THE MANHOLE DOES NOT EXCEED 12-INCHES (INCLUDING THE EXISTING RINGS OR COURSES OF BRICK). FOR MANHOLES WHICH WILL EXCEED THE MAXIMUM OF 12-INCHES, THE TRANSITION SECTION OF THE STRUCTURE THE EXISTING STRUCTURE.
- IF A MANHOLE IS TO BE LOWERED: MANHOLES MAY BE LOWERED BY REMOVING THE TRANSITION SECTION, AND LOWERING THE EXISTING BOTTOM SECTION BY SAWCUTTING THE EXISTING CAST-IN-PLACE RISER SECTION AS APPROPRIATE.

### M.S.D. NOTES

STANDARD CONSTRUCTION: All storm and sanitary sewer structures and appurtenances to be dedicated to MSD, or to be Private Under MSD Inspection, shall conform to the Metropolitan St. Louis Sewer District, Standard Construction Specifications for Sewers and Drainage Facilities, 2009. That will include Standard Details shown therein, and shall include all subsequent changes made Some recent changes concern Plastic Pipe Materials and Pipe Field Testing and performance, and include the following:

PART 2 - MATERIALS OF CONSTRUCTION High Density Polyethylene (HDPE) pipe is not allowed for gravity sewers for storm, combined, or sanitary sewers that are "public" or "private under MSD inspection". Polypropylene (PP) pipe is allowed as follows for aravity sewers that are "public" or "private under MSD inspection: 1.) For use in sanitary and combined sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene

(PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer Applications. 2.) For use in storm sewers 12 to 24 inches in diameter it shall conform to the requirements of ASTM F2881 "Standard Specification for 12 to 60 in. Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications; "or 3.) For use in storm sewers 12 to 60 inches in diameter it shall conform to the requirements of ASTM F2764 "Standard Specification for 6 to 60 in. Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non- Pressure Sanitary Sewer

Applications." PART 4 - PIPE SEWER CONSTRUCTION Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing - delete the first sentence and the following replacement applies:

of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications. Section B, Pipe Field Tests, Paragraph 2, Reach Integrity Testing, Subparagraph c, Infiltration/Exfiltration Testing — delete the sixth sentence, concerning leakage limits, and the following replacement applies: The measurement of leakage shall not exceed 100 gallons/inch of pipe diameter/mile of line/day, as required by the Missouri Department of Natural Resources Specifications. Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph a, Vacuum Testing - after the first sentence, the following addition applies: The vacuum test must be performed prior to backfilling around the manhole unless the contractor provides documentation from the precast manhole manufacturer stating that the manhole may be vacuum tested after backfilling has taken place. The contractor must submit this documentation prior to backfilling around any manhole.

Section B, Pipe Field Tests, Paragraph 4, Manhole Testing, Subparagraph b, Exfiltration Testing - delete the second sentence, concerning leakage limits, and the following addition applies For exfiltration testing, the allowable leakage limit is 100 gallons/inch of pipe diameter/mile of line/day when the average head on the test section is three feet (3') or less. If Reinforced Concrete Pipe is used for sanitary or combined sewers larger than 27", all pipe AND joints shall conform to ASTM C 361. In addition, if the diameter is larger than

48", the joint type must include a gasket that is confined in a groove in the spigot of the pipe.

### STORM SEWER NOTES

METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS

GRANULAR BACKFILLED. TRENCH BACKFILLS UNDER PAVED AREAS, OUTSIDE OF PUBLIC

OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.

INSTALLED REACH OF SEWER. PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION

SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN

THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE

SHALL BE REMOVED AND THE BOTTOM SECTION RAISED USING THE SAME MATERIAL AS

CONCRETE, REMOVING THE REQUIRED COURSES OF BRICK, OR REMOVING THE PRECAST

All sanitary and combined sewers shall sustain a maximum leakage limit of 100 gallons/inch

### SANITARY SEWER NOTES

- 1.) ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2009.
- 2.) 6" AND 8" LATERALS CONSTRUCTED OF P.V.C. S.D.R.-35 THICKWALL PIPE, A.S.T.M. D-3034.
- 3.) 6" AND 8" LATERAL JOINTS TO CONFORM TO A.S.T.M. STANDARD S.D.R.-35 THICKWALL COMPRESSION JOINT FOR P.V.C.
- 4.) ALL MANHOLE FRAMES AND COVERS SHALL BE M.S.D. STANDARD FRAME AND COVER.
- 5.) ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE ST. LOUIS COUNTY PLUMBING CODE.
- 6.) ALL TRENCHES UNDER AREAS TO BE PAVED SHALL BE GRANULARLY FILLED WITH 3/4" CRUSHED LIMESTONE. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARDS.
- 7.) CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM MANHOLE AND WORK UPSTREAM.
- 8.) CLEANOUTS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL CHANGES IN DIRECTION OF FLOW OF HOUSE LATERALS AND ANY SANITARY LATERAL OF 100 FEET OR LONGER.
- 9.) TYPE "C" BEDDING PER M.S.D. STANDARDS REQUIRED FOR PIPES IN ROCK.
- 10.) VERTICAL CLEARANCE BETWEEN SEWER AND WATER MAINS SHALL BE A MINIMUM OF 2' 0". 11.) ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILLED. TRENCH BACKFILLS UNDER PAVED AREAS. OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED
- TO 95 PERCENT OF THE STANDARD AASHTO T-99 COMPACTION TEST A.S.T.M. D-698. 12.) JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 13.) FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%). VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.
- FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.
- MSD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.
- THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
- 14.) ADJUSTMENT OF MANHOLE TO GRADE: If a manhole is to be raised: Manholes may be raised using courses of brick or approved grade ring(s), provided the total adjustment of the manhole does not exceed 12-inches (including the existing rings or courses of brick). For manholes which will exceed the maximum of 12-inches, the transition section of the structure shall be removed and the bottom section raised using the same material as the existing structure.
- If a manhole is to be lowered: manholes may be lowered by removing the transition section, and lowering the existing bottom section by sawcutting the existing cast-in-place concrete, removing the required courses of brick, or removing the precast riser section as appropriate.
- 15.) MAINTENANCE OF THE SEWERS DESIGNATED AS "PUBLIC" SHALL BE THE RESPONSIBILITY OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.
- 16.) FOUNDATION DRAINS, IF INSTALLED, SHALL NOT CONNECT TO THE SANITARY SEWER.

### EARTHWORK NOTES

BULK FILL \_\_\_\_\_\_\_ CUBIC YARD (INCLUDES 15% FOR SHRINKAGE) THE CALCULATED EARTHWORK QUANTITIES SHOULD BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT AND/OR REDISTRIBUTION OF SOILS FOR THE SUBJECT PROPERTY. THE CALCULATED QUANTITIES ARE INTENDED FOR GENERAL USE AND SHOULD BE USED ONLY AS A COMPARISON WITH THE QUANTITIES CALCULATED BY THE EARTHWORK SUBCONTRACTOR. THE EARTHWORK SUBCONTRACTOR SHALL BE FULLY RESPONSIBLE FOR EARTHWORK QUANTITIES ON-SITE AND FINAL DETERMINATION OF ANY REQUIRED IMPORT OF

THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR FILL SHORTAGES. DISCREPANCIES BETWEEN THE ENGINEER'S CALCULATED QUANTITIES AND THE EARTHWORK SUBCONTRACTOR'S ESTIMATE SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY. THE EARTHWORK QUANTITIES ESTIMATED FOR THE SUBJECT SITE ARE BASED UPON HORIZONTAL AND VERTICAL LOCATION OF THE IMPROVEMENTS AS PROPOSED ON THE SITE ENGINEERING PLANS PREPARED BY CIVIL ENGINEERING DESIGN

CONSULTANTS, INC. THE ENGINEER'S ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS PERTAINING TO EARTHWORK QUANTITIES THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT:

- A.) MISCELLANEOUS UNDERGROUND CONDUITS AND MANHOLES B.) WATER MAINS LESS THAN TWENTY-FOUR INCHES IN DIAMETER.
- C.) BUILDING FOOTINGS AND FOUNDATIONS D.) UTILITY AND/OR LIGHT STANDARD BASES

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATIONS MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND THEREFORE, THE ACTUAL EARTHWORK QUANTITIES MAY VARY FROM THE THESE ESTIMATED QUANTITIES. THE ENGINEER ALSO ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO THE REMOVAL OF UNSUITABLE MATERIAL WHICH MUST BE REMOVED FROM THE SITE. **ASSUMPTIONS** 

- 1.) IT IS ASSUMED THAT THE TOPSOIL, IF ANY, WILL BE REUSED ON-SITE WITHIN LANDSCAPING AREAS AND WILL NOT BE HAULED OFF. 2.) SUBGRADE FOR REGULAR PAVEMENT SECTIONS - 11"
- BUILDING SUBGRADE -10" 3.) ASSUMED 15% SHRINKAGE FACTOR
- 4.) PERVIOUS PAVEMENT SUBGRADE -24"

### **CITY WATER NOTES**

NOTE: THE CONTRACTOR SHALL REFER TO THE CITY OF ST. LOUIS WATER DIVISION "REGULATIONS FOR THE INSTALLATION OF LARGE CONNECTIONS AND THE LAYING OF WATER MAINS AND INFORMATION ON SMALL SERVICE CONNECTIONS" (LATEST EDITION) FOR THE COMPLETE LIST OF THE LATEST SPECIFICATIONS AND REQUIREMENTS.

1.) CITY ORDINANCE 57997 REQUIRES THAT THE PERSON REQUESTING A LARGE SERVICE LINE CONNECTION - I.E. A SERVICE CONNECTION LARGER THAN TWO (2) INCHES IN DIAMETER -SHALL DO ALL EXCAVATING, INSTALLATION OF THE PIPING, VALVE AND METER BOXES, AND COMPLETE ALL BACKFILLING AND GRADE RESTORATION, ETC. AND ARE REQUIRED TO CONFORM TO THE WATER DIVISION'S STANDARDS BEFORE SERVICE IS GRANTED. COST ESTIMATES FOR WORK

- 2.) A WRITTEN REQUEST FOR A COST ESTIMATE FOR A LARGE SERVICE CONNECTION MUST INCLUDE THE FOLLOWING INFORMATION:
  - A. APPROXIMATE LOCATION OF THE SERVICE CONNECTION B. THE TYPE OF SERVICE CONNECTION - I.E. DOMESTIC SERVICE, FIRE SERVICE, COMBINED SERVICE. SPLIT SERVICE. ETC
  - . THE APPROXIMATE VOLUME OF WATER REQUIRED EXPECTED DATE THAT SERVICE CONNECTION IS TO BE INSTALLED E. A DRAWING SHOWING ALL RELATED DETAILS OF INSTALLATION. THIS

INFORMATION SHALL INCLUDE A SITE PLAN, PROPOSED LOCATIONS OF THE SERVICE TAPS, METER BOX, BACKFLOW PREVENTER, ETC. 3.) THE WATER DIVISION WILL PREPARE A WRITTEN COST ESTIMATE FOR THE WORK TO BE DONE BY OUR FORCES. THIS COST ESTIMATE FOR THE WORK IS VALID FOR A PERIOD OF SIXTY (60) DAYS FROM THE DATE OF THE COST ESTIMATE AND WILL

### APPLICATION FOR A TAP INSTALLATION

SCHEDULE THE INSTALLATION OF THE TAP CONNECTION.

<u>TAP EXCAVATION & METER INSTALLATION INSPECTIONS</u>

INSPECT THE TAP EXCAVATION BEFORE THE WORK IS SCHEDULED.

NEED TO BE RESUBMITTED IF THAT TIME EXPIRES.

4.) BEFORE THE WATER DIVISION CAN PROCEED WITH THE WORK, THE CONTRACTOR WILL NEED TO MAKE AN APPLICATION FOR SERVICE AND WILL BE REQUIRED TO SUBMIT THE FOLLOWING

- ITEMS: A. A CHECK OR MONEY ORDER MADE OUT TO THE "CITY OF ST. LOUIS WATER DIVISION" IN THE AMOUNT OF THE COST ESTIMATE FOR THE TAP INSTALLATION.
- B. COPY OF THE EXCAVATION PERMIT COPY OF THE PLUMBING PERMIT
- COPY OF THE PURCHASE ORDER OR BILL OF SALE FOR THE BACKFLOW PREVENTER (FOR FIRE LINES OR HIGH RISK INSTALLATIONS) E. COPY OF AN APPROVED DRAWING STAMPED AND SIGNED BY THE FIRE
- MARSHAL'S OFFICE (FOR FIRE CONNECTIONS) AND/OR THE PLUMBING SECTION (FOR DOMESTIC SERVICE CONNECTIONS)
- F. COMPLETION OF AN APPLICATION FOR SERVICE FROM THE WATER DIVISION CUSTOMER SERVICE SECTION ONLY WHEN THE ITEMS NOTED ABOVE HAVE BEEN SUPPLIED WILL THE WATER DIVISION

5.) THE WATER DIVISION WILL RENDER AN INVOICE AT THE COMPLETION OF THE WORK. THE AMOUNT OF THE INVOICE WILL BE BASED ON A TIME AND MATERIAL BASIS FOR THE WORK DONE BY THE WATER DIVISION. IF THE BILL IS LESS THAN THE AMOUNT OF THE DEPOSIT. A REFUND OF THE DIFFERENCE WILL BE MADE. IF THE BILL IS GREATER THAN THE DEPOSIT, THE DIFFERENCE WILL BE BILLED TO THE CONTRACTOR.

6.) WHEN THE CONTRACTOR HAS MADE THE TAP EXCAVATION AND HAS THE WATER MAIN EXPOSED AND CLEANED, CONTACT MARK NANKIVIL AT (314) 771-4880, EXT. 123 AT LEAST 24 HOURS IN ADVANCE TO SET UP AN INSPECTION. THE WATER DIVISION WILL

7.) AFTER THE TAP HAS BEEN MADE AND THE CONTRACTOR HAS INSTALLED THE PIPING AND VALVE BOXES, THE WATER DIVISION REQUIRES THAT THE WORK BE INSPECTED PRIOR TO BACKFILLING AND GRADE RESTORATION. CONTACT MARK NANKIVIL AT (314) 771-4880, EXT. 123 TO SCHEDULE AN INSPECTION.

- 8.) WHEN THE METER VAULT IS READY FOR THE INSTALLATION OF THE METER, CONTACT ERNIE CARROLL OF THE WATER DIVISION'S METER & TAP SECTION AT (314) 771-4880, EXT. 175 TO SET UP AN INSPECTION PRIOR TO INSTALLATION OF THE METER. A. WHEN INSTALLING THE METER FLANGES, THE BOLT HOLES ON THE FLANGE SHALL BE SET UP TO STRADDLE TOP CENTER. THE FLANGES SHALL BE A MINIMUM OF SIX (6) INCHES FROM THE SIDES OF THE METER VAULT TO ALLOW FOR THE INSTALLATION AND REMOVAL OF THE MOUNTING BOLTS
- FROM THE FLANGE. B. NO WATER SHALL BE TURNED ON TO ANY CONNECTION UNTIL THE WATER DIVISION HAS INSPECTED AND APPROVED THE INSTALLATION. NO WATER SHALL BE TURNED ON WITHOUT A WATER METER INSTALLED. SHORING OF EXCAVATION

9.) THE CONTRACTOR WILL BE RESPONSIBLE TO ADEQUATELY SHORE THE EXCAVATION PRIOR TO THE WATER DIVISION MAKING THE TAP. ANY EXCAVATION GREATER THAN FIVE (5) FEET IN DEPTH WILL REQUIRE SHORING. ADEQUACY OF THE SHORING SHALL BE DETERMINED AT THE TIME OF THE TAP EXCAVATION.

SPECIFICATIONS FOR MATERIALS TO BE USED ON LARGE CONNECTIONS TO WATER MAINS AND FOR THE LAYING OF WATER MAINS

DUCTILE IRON PIPE 10.) ALL PIPE USED WITHIN THE CITY RIGHT-OF-WAY SHALL BE CLASS 52 DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS, FOR USE WITH POTABLE WATER OR OTHER LIQUIDS AND AS SPECIFIED IN THE AMERICAN NATIONAL STANDARDS INSTITUTE SPECIFICATIONS AND A21.51-86 (OR LATEST REVISION) AND THE AMERICAN WATER WORKS ASSOCIATION AWWA C151 STANDARDS. NOMINAL PIPE SIZES TO BE USED SHALL BE SIX (6), EIGHT (8), TWELVE (12), AND TWENTY (20) INCHES IN DIAMETER.

11.) ALL PIPE FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI (MINIMUM) AND A CAST IRON STRENGTH OF 25,000 PSI, OR A 350 PSI PRESSURE RATING WHEN MADE OF DUCTILE IRON. ALL PIPE FITTINGS SHALL MEET THE STANDARDS FOR GRAY IRON AND DUCTILE IRON FITTINGS AS SET FORTH IN THE AMERICAN NATIONAL STANDARDS INSTITUTE ANSI A21.10-87 (OR LATEST REVISION) AND THE AMERICAN WATER WORKS ASSOCIATION AWWA C110 STANDARDS.

RESTRAINED/RUBBER GASKET JOINTS ALL RUBBER GASKET JOINTS SHALL MEET THE STANDARDS FOR DUCTILE IRON AND GRAY IRON PRESSURE PIPE AND FITTINGS AS APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE ANSI A21.11-85 (OR LATEST REVISION) AND THE AMERICAN WATER WORKS ASSOCIATION AWWA C111 STANDARDS.

13.) ALL PIPE AND FITTING JOINTS WITHIN THE CITY RIGHT-OF-WAY SHALL BE RESTRAINED JOINTS. THE USE OF U.S. PIPE FIELD-LOK RUBBER GASKETS (OR APPROVED EQUAL) IS ACCEPTABLE. GATE VALVES - SPECIFICATIONS FOR 6" THROUGH 12" GATE VALVES

14.) GATE VALVES SHALL BE MANUFACTURED IN FULL COMPLIANCE WITH THE CONTENTS OF THIS SPECIFICATION AND IN ADDITION, THE GATE VALVE SHALL COMPLY WITH THE AMERICAN WATER WORKS ASSOCIATION AWWA C500 STANDARDS.

- A. GATE VALVE TYPE SHALL BE METROPOLITAN PATTERN, DOUBLE DISC, PARALLEL SEAT, SIDE WEDGE WITH NON-RISING STEM. . VALVES SHALL OPEN AS REQUIRED TO THE RIGHT CLOCKWISE.
- VALVE END CONNECTIONS GATE VALVES SHALL BE FURNISHED WITH THE TYPE END CONNECTION SPECIFIED - BELL ENDS FOR A POURED JOINT, MECHANICAL JOINT OR 125# FLANGED. D. DISC AND DISC SEAT RINGS - CAST IRON DISCS SHALL BE ACCURATELY
- MACHINED TO RECEIVE BRONZE DISC SEAT RINGS. THE DISC SEAT RING SURFACES IN CONTACT WITH THE IRON DISC AND THE DOVETAILED PROJECTIONS SHALL BE FULLY MACHINED AND THE DISC RINGS SHALL BE ROLLED, PEENED OR PRESSED IN TO THE MACHINED GROOVES ON THE IRON DISC WHEN SECURED INTO PLACE, A ROUGH FINISH CUT SHALL BE TAKEN OVER THE

DISC SEAT RING BEARING SURFACE. 15.) VALVE SIZE MIN. DIA. OF VALVE STEMS BODY/BONNET AT BASE OF THREADS THICKNESS 0.6250 1.250 0.6875 0 7187 0.7500" 1.500

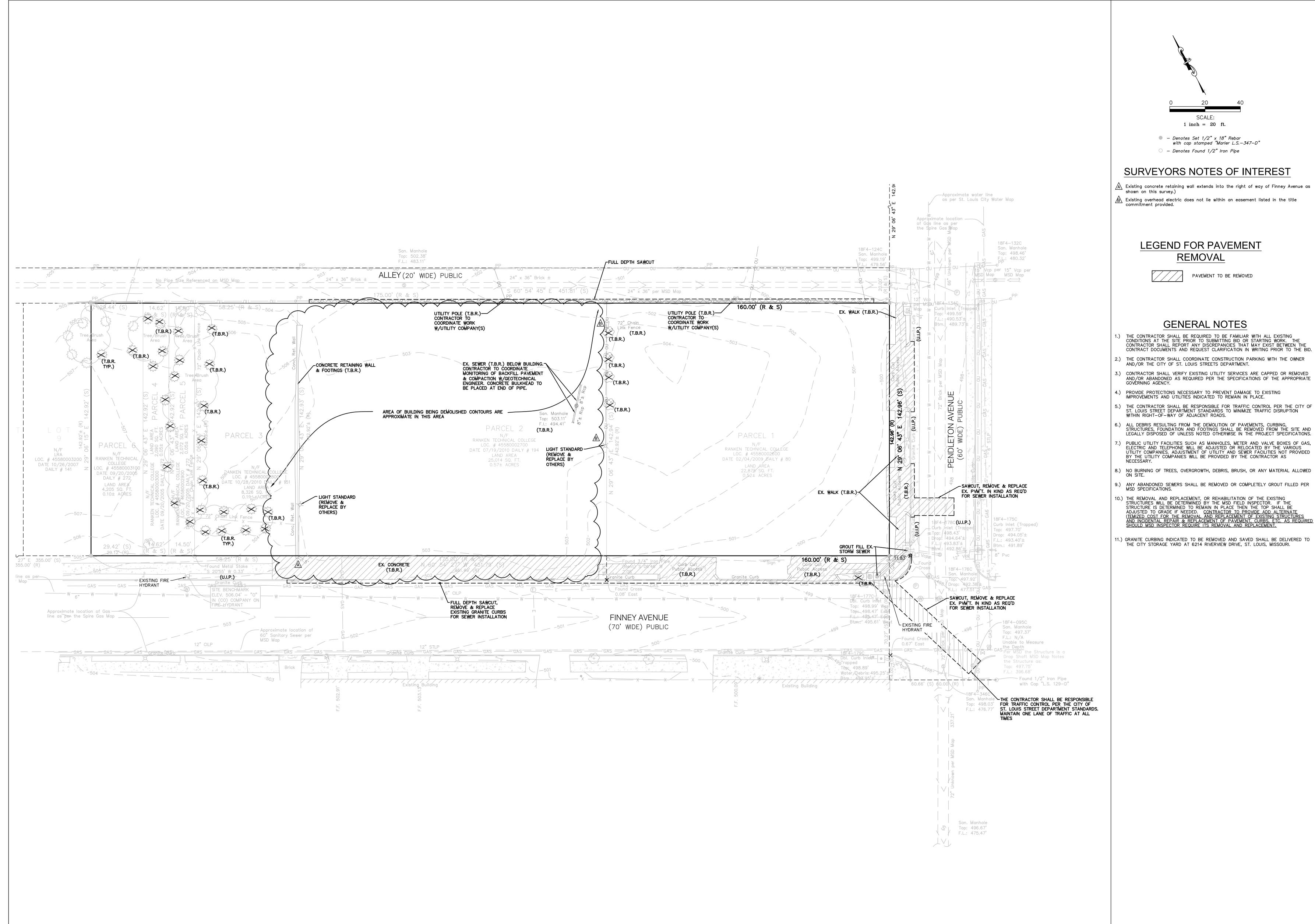
- 16.) 6" THROUGH 12" GATE VALVES SHALL HAVE A 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
- 17.) 6" AND 8" VALVE WEDGES SHALL BE MADE OF BRONZE. 10" AND LARGER VALVE WEDGES SHALL BE CAST IRON BRONZE MOUNTED.
- 18.) THE HOUSING FOR THE VALVE STEM THRUST COLLAR SHALL BE CAREFULLY MACHINED AND SHALL BE FULLY BRONZED LINE FOR ALL SIZE VALVES. 19.) THE VALVES SHALL BE PROVIDED WITH "O" RING SEALS.
- POLYETHYLENE ENCASEMENT
- 20.) ALL PIPE, FITTINGS, VALVES, ETC. SHALL BE ENCASED WITH POLYETHYLENE MEETING THE POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPING FOR WATER AND OTHER LIQUIDS AS APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE ANSI A21.5-88 (OR LATEST REVISION) AND THE AMERICAN WATER WORKS ASSOCIATION AWWA C105 STANDARDS.

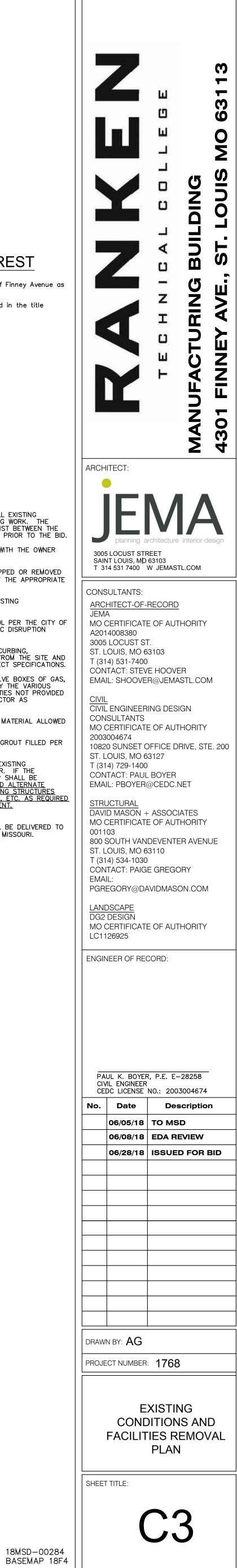
<u>PIPE\_INSTALLATION</u> 21.) ALL PIPE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED ACCORDING TO THE INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES STANDARD APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE AND AMERICAN WATER WORKS ASSOCIATION ANSI/AWWA C600 (OR LATEST REVISION).

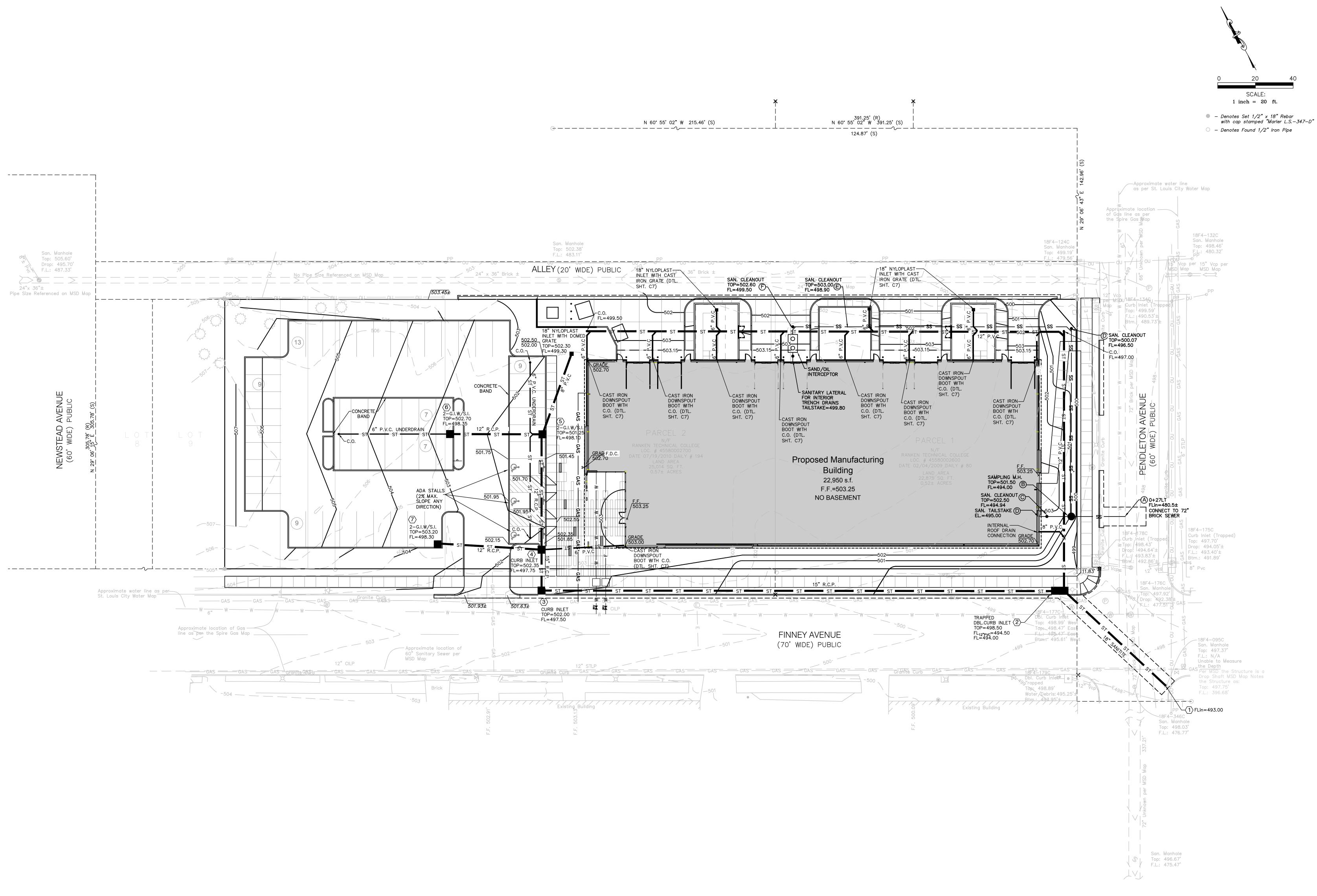
- 22.) THE DUCTILE IRON PIPE RESEARCH ASSOCIATION ALSO PUBLISHES A PAMPHLET ENTITLED "A GUIDE FOR THE INSTALLATION OF THE DUCTILE IRON PIPE" WHICH IS USEFUL IN OUTLINING AND DESCRIBING THE PROPER INSTALLATION METHODS. <u>METER VAULTS AND VALVE BOXES</u>
- 23.) ALL METER VAULTS AND VALVE BOXES SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS FOUND IN THE CITY OF ST. LOUIS WATER DIVISION REGULATIONS OR BY APPROVED PRE-CAST VAULTS/BOXES. CONTRACTORS SHALL SUBMIT SHOP DRAWINGS TO THE WATER DIVISION FOR APPROVAL WHEN PERMITS ARE SUBMITTED. CONNECTIONS OVER TWO (2) INCHES IN SIZE SHALL HAVE FLANGED CONNECTIONS AS CALLED FOR BY THE AMERICAN NATIONAL STANDARDS INSTITUTE AND AMERICAN WATER WORKS ASSOCIATION ANSI/AWWA C110 STANDARDS.
- 24.) NO WATER SHALL BE TURNED ON TO ANY CONNECTION UNTIL THE WATER DIVISION HAS INSPECTED AND APPROVED THE INSTALLATION. NO WATER SHALL BE TURNED ON WITHOUT A WATER METER INSTALLED.
- EXCAVATION, BACKFILL AND GRADE RESTORATION 25.) ALL EXCAVATIONS, BACKFILL AND GRADE RESTORATION SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING THE REQUIRED VALVE BOXES AND METER VAULTS AND THE CAST IRON FRAME AND COVERS. THE CONTRACTOR WILL BE RESPONSIBLE TO ADEQUATELY SHORE THE EXCAVATION PRIOR TO THE WATER DIVISION MAKING THE TAP. ANY EXCAVATION GREATER THAN FIVE (5) FEET IN DEPTH WILL REQUIRE SHORING. ADEQUACY OF THE SHORING SHALL BE DETERMINED AT THE TIME OF THE TAP EXCAVATION.

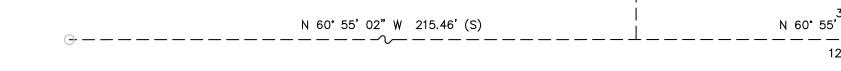


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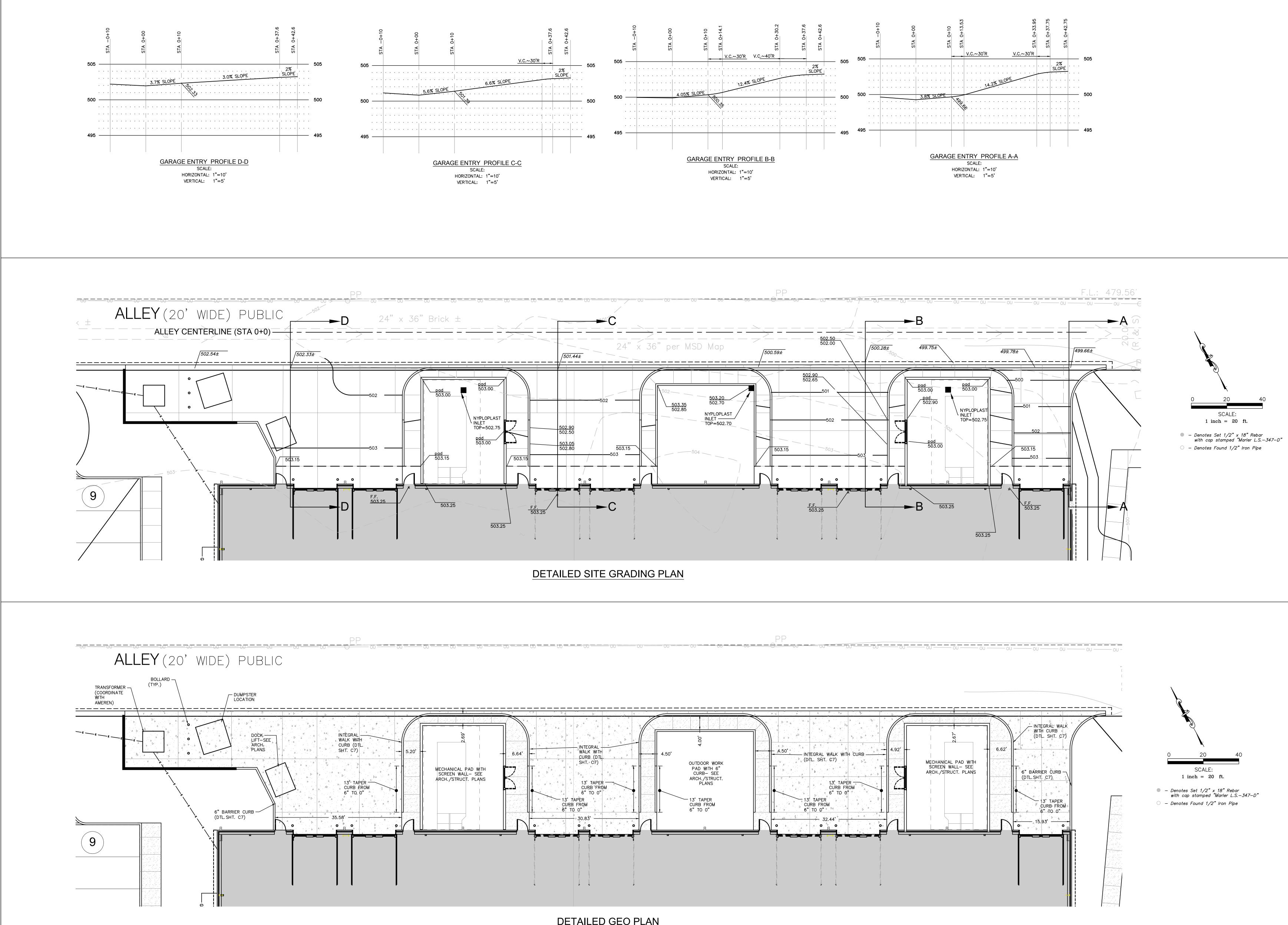








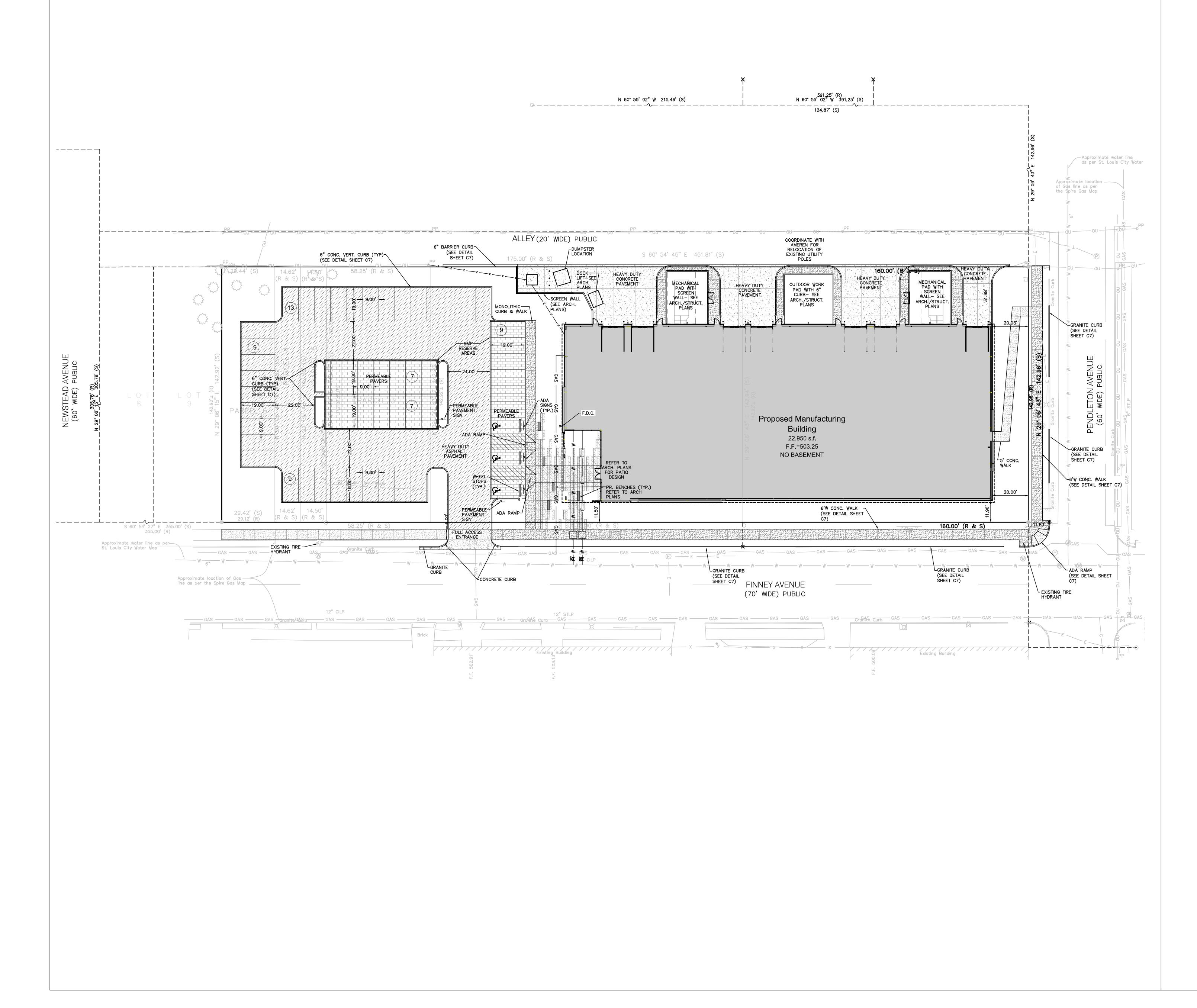
18MSD—00284 BASEMAP 18F4

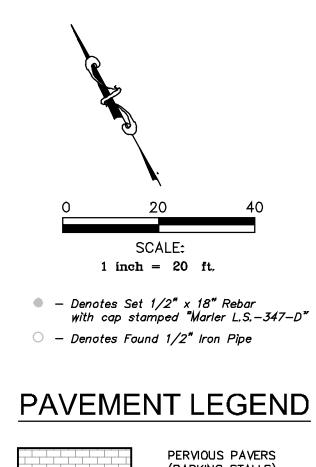


### DETAILED GEO PLAN



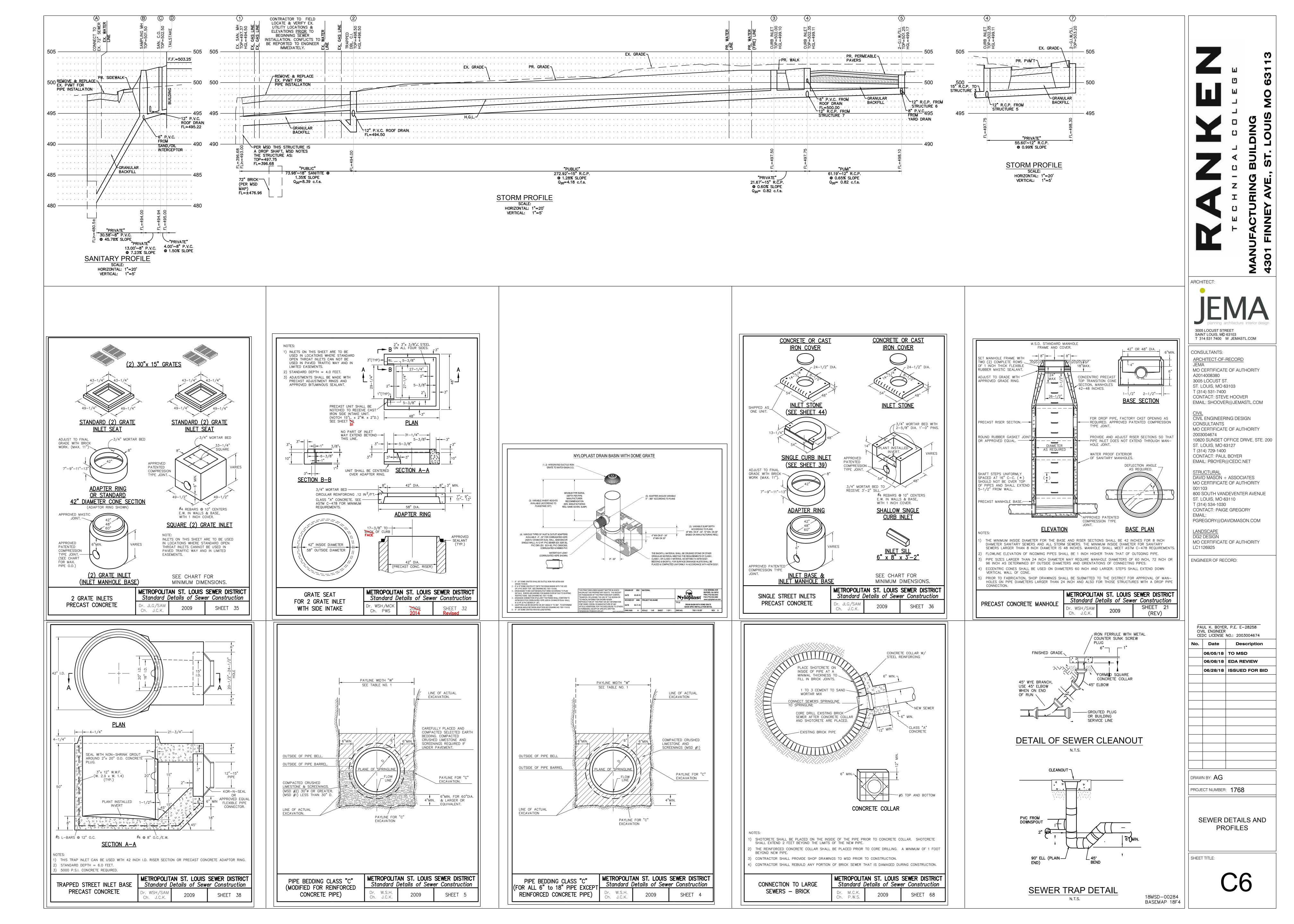
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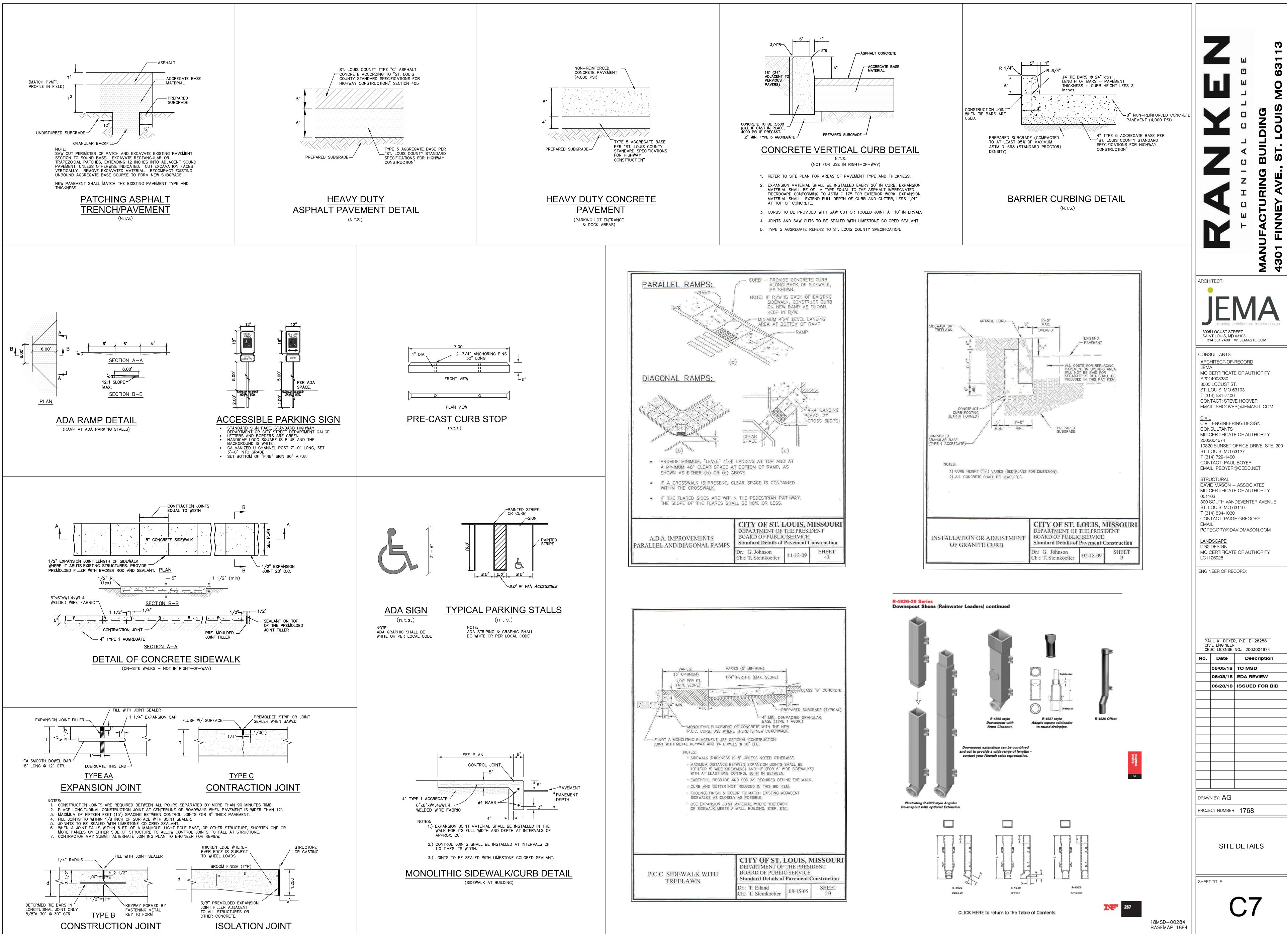


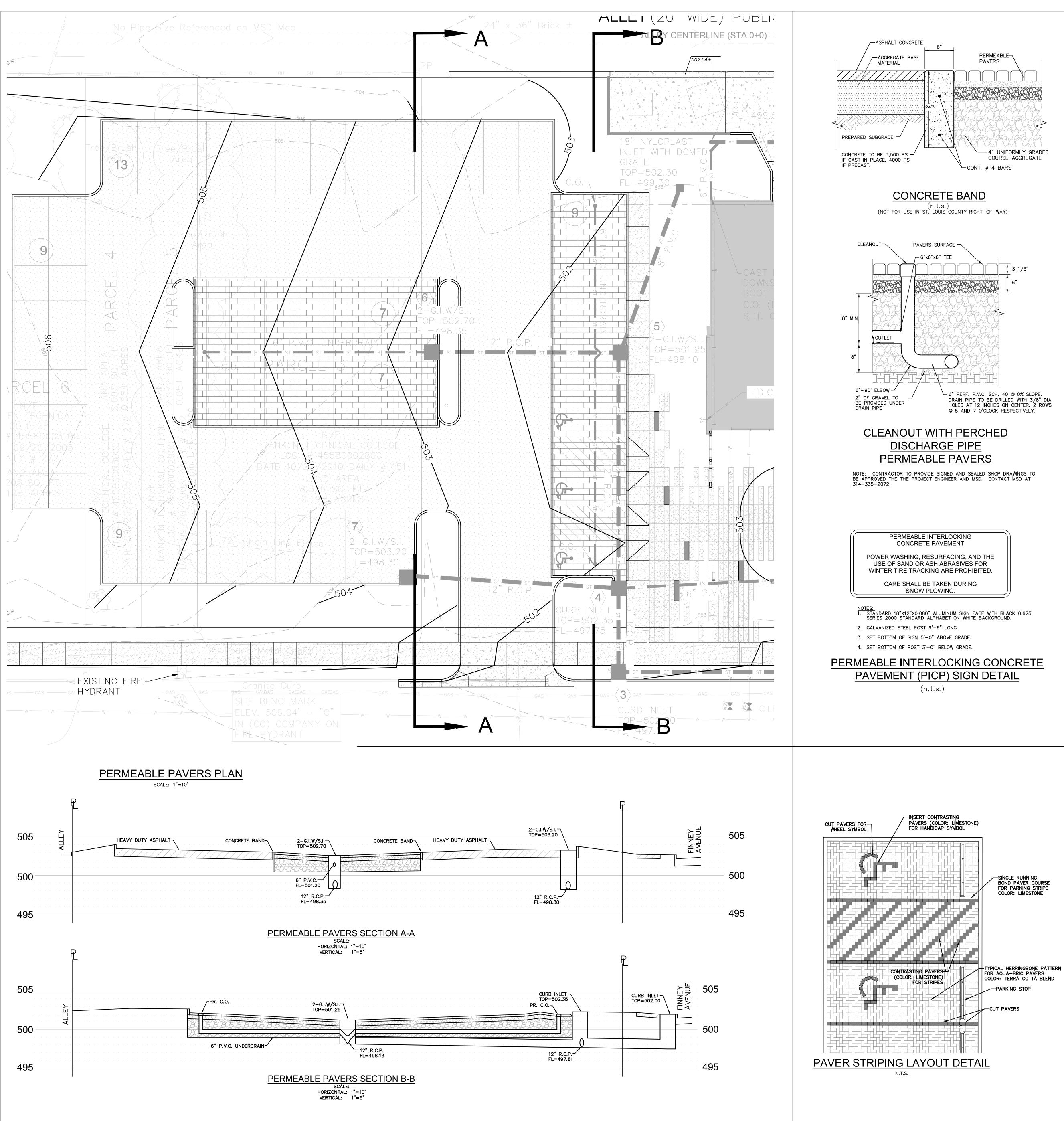


(PARKING STALLS)
HEAVY DUTY ASPHALT (DRIVE AISLES)
LIGHT DUTY CONCRETE (SIDEWALK)
HEAVY DUTY CONCRETE (DRIVES/DOCK AREA)

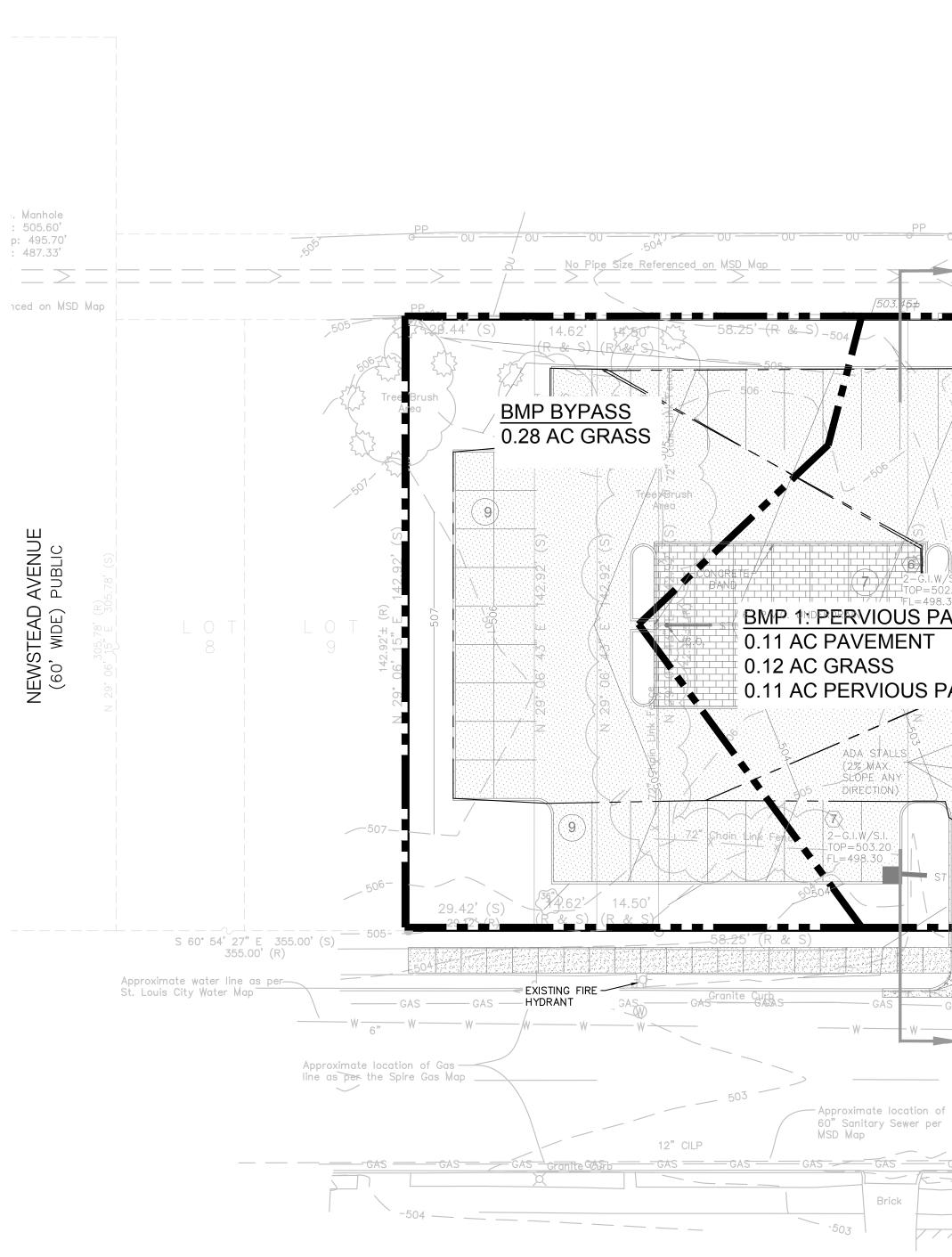






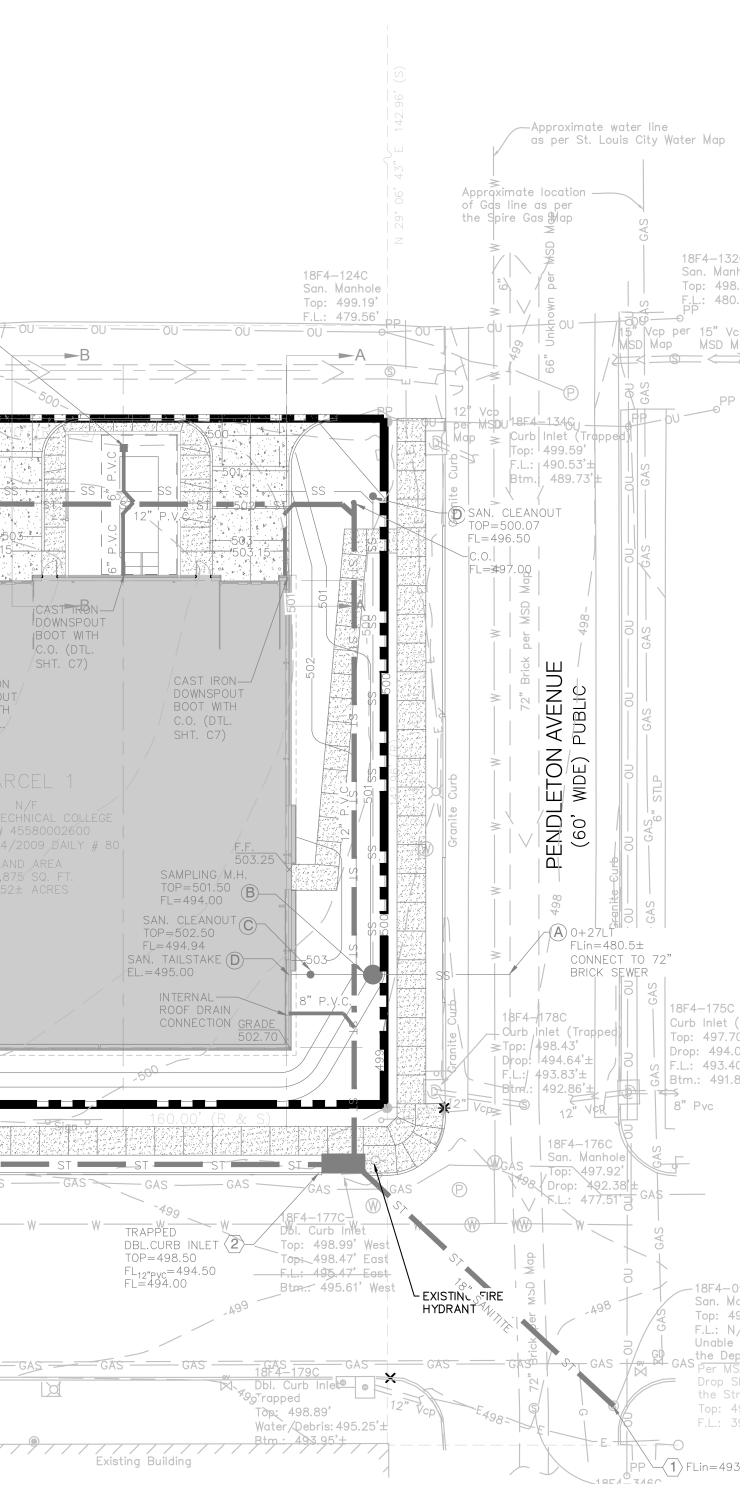


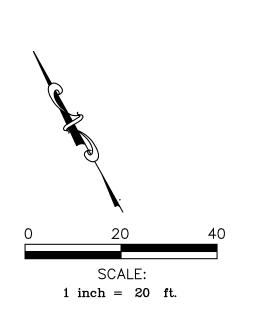




	BMP SUMMARY TABLE				
BMP AREA	TRIBUTARY AREA	BMP	PERVIOUS PAVER AREA	DRAINAGE AREA TO PAVERS	RATIO OF DRAIN. AREA TO PERVIOUS PAVERS
1	0.34 ACRES	PERVIOUS PAVERS	0.11 ACRES	0.23 ACRES	2.09:1
BYPASS	1.14 ACRES	NONE			
TOTALS	TOTALS= 1.48 ACRES				

	San. Manhole Top: 502.38' F.L.: 483.11'		PP				PP	
$ \begin{array}{c} 00 & -00 & -00 \\ 50^{3^{-2}} & 24^{*} \times 36^{*} & \text{Brick} \\ \hline \mathbf{A} & - 00 \\ \hline \mathbf{A} & -$	ALLEY (20' WIDE ALLEY (20' WIDE 175.00' (R & S)		NYLOPLAST NET WIH CAST RON GRATE (DTL.	6" Brick ±	0U 0U - AN. CLEANOUT 9P5502.69 L=499.50	00 00 SAN> CLEANOUT 24"TOP = 503.00 FL= 498.90		OU 7 OI NYLOPLAST T WITH CAST GRATE (DTE C7)
CONCRETE- BAND W/S.1. 502.70 98.35	18" NYLOPLAST INLET WITH DOMEN 502.50 GRATE TOP=502.30 FL=499.30 C C C C C C C C C C C C C C C C C C C	CAST IRON DOWNSPOUT BOOT WITH C.O. (DTL. SHT. C7)	ST 502 ST 503 503.15 CAST IROI DOWNSPOU BOOT WITH C.O. (DTL SHT. C7)	JT H	ST ST -503.15 -503.15 -503.15 -6 -CAST IRON DOWNSPOUT BOOT WITH C.O. (DTL. SHT. C7)	SANITARY LATERA FOR INTERIOR TRENCH DRAINS TAILSTAKE=499.8	CAST IRON DOWNSPOUT	501 502 503 503 503 503 503 503 503 503 503 503
PAVEIZINI PAVERS	2-G.I.W/S.I TOP=501.25 FL=498.10	GRAD F.D.C. DAT	ANKEN TECHNICAL LOC. # 4558000 0. E 07/19/2010 DA LAND AREA 0. 25,014 SQ. F 0.57± ACRE 0. E. D3.25	<u>/IP BYPAS</u> 55 AC RO 19 AC PA 12 AC GR	OF VEMENT	Proposed Ma Build 22,950 F.F.=50 NO BASE	ing s.f. 3.25	PARC N/ RANKEN TECHN ILOC. # 455 DATE 02/04/20 LAND 22,875 0.52±
12" R.C.P.     ST       CURB     TOP=       FL=49       GA     GA       501.93±     SO       SO     SO       GA     GA       SO     SO	(4) INLET 502.35 97.75 97.75 97.75 10 10 10 10 10 10 10 10 10 10		AST IRON         OWNSPOUT         OOT WITH C.O.         DTL. SHT. C7-         S)         S)         S)         S)         S)         S)         S)         S)         S)         GAS         GAS         W         W	ST	COS COS COS COS COS COS COS COS	ST     ST       GAS     GAS	502 501 501 ST S GAS G/	501=
of er GAS GAS	5 <u>Growits</u> <u>Curb</u> GAS		GAS GAS	GAS	GAS - GAS - G	FINNEY AVENUE (70' WIDE) PUBLIC	S GAS -500	Grantite Curb G
6	20 						ľ	00.

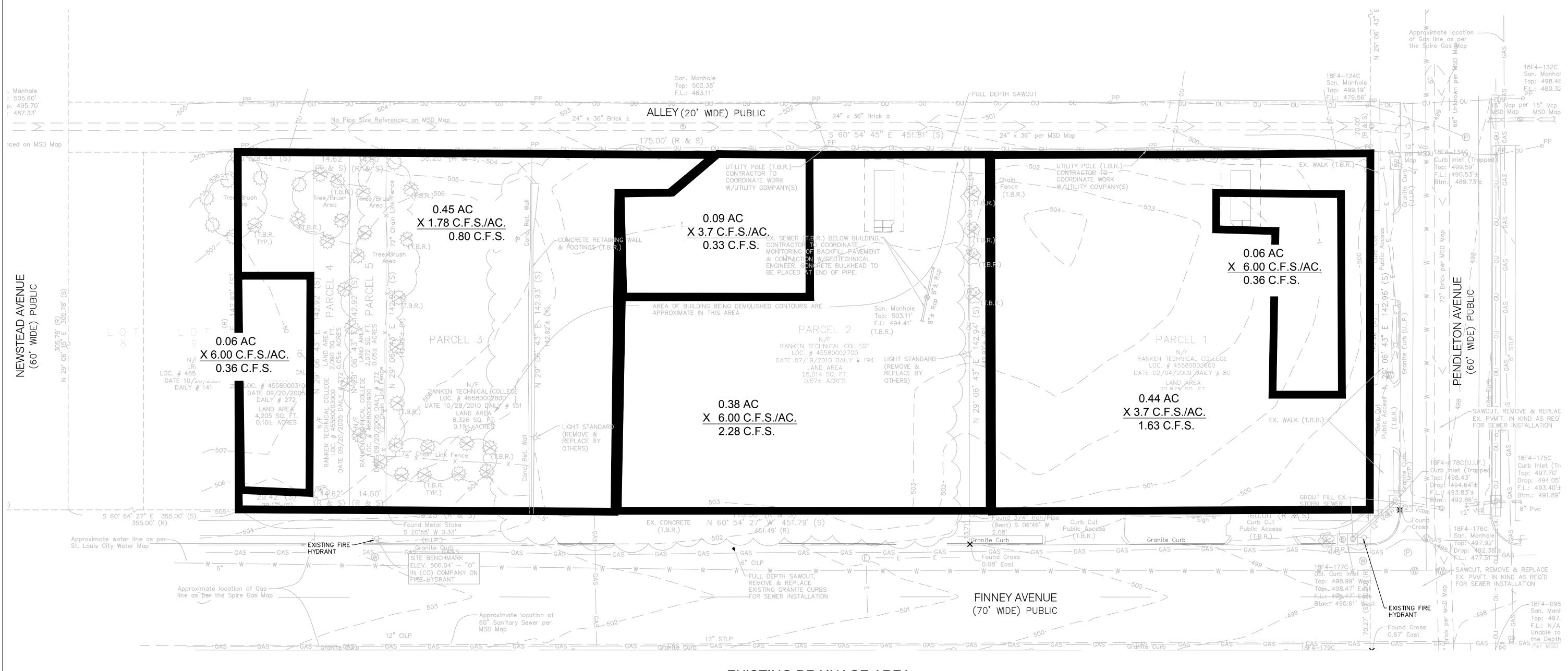


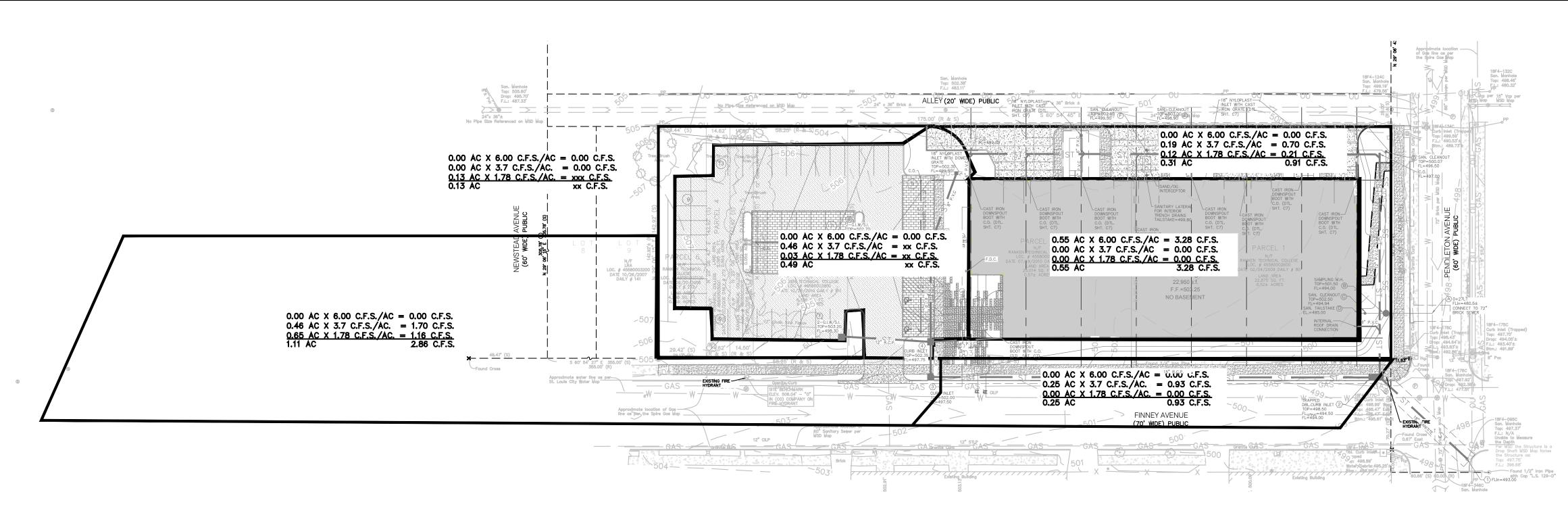


 Denotes Set 1/2" x 18" Rebar with cap stamped "Marler L.S.-347-D" ○ – Denotes Found 1/2" Iron Pipe



18MSD–00284 BASEMAP 18F4

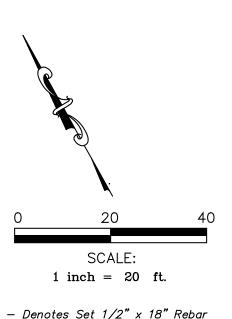




20 Y	′R																								
HYDRAU	LIC CALO	CULATION	N SHEET (S	SEE DRAIN	AGE AF	REA PLAN	FOR P.I. AN	D Q (inflow	) FOR EACH	STRUCTURE)															-
Project na	ame:	Ranken			Calcula	ted By:	AMG																		
Project n	umber:	1768			Checke	ed By:	РКВ				Bend Coef	ficients :													
Project L	ocation:	St. Louis			Date:		6/4/18	?	5 <sup>°</sup> = 0.06	20 <sup>°</sup> = 0.24	35 <sup>°</sup> = 0.40	50 <sup>°</sup> = 0.50	65 <sup>°</sup> = 0.57	80 <sup>°</sup> = 0.65											
	LIN	E	FLOW	LINE					10 <sup>°</sup> = 0.11	25 <sup>°</sup> = 0.30	40 <sup>°</sup> = 0.43	55 <sup>°</sup> = 0.52	70 <sup>°</sup> = 0.60	85 <sup>°</sup> = 0.67		HEAD LC	SS		Hyd	raulic Elevat	ions		TOP or		
			ELEVA	TIONS					15 <sup>°</sup> = 0.18	30 <sup>°</sup> = 0.35	45 <sup>°</sup> = 0.47	60 <sup>°</sup> = 0.55	75 <sup>°</sup> = 0.62	90 <sup>°</sup> = 0.70								Structure	SILL	Free	
Structure	Upper	Lower	Upper	Lower	Length	Flowline	Pipe Size	Full Flow	Total (Q)	Mean Full Flow	Bend	Velocity	QVh	Pipe Coef.	$\mathbf{H}_{f}$	Junction	Bend	Total	Upper F.L	Lower H.E.	Lower H.E.	Upper	Structure	Board	Structure
Number	structure	estructure	structure	Structure	(ft)	Grade ft/ft	(in.)	Cap. (cfs)	(cfs)	Vel.(V) (ft/s)	Coef.	Head (V <sub>h</sub> ) (ft)	(ft <sup>4</sup> /s)	(n)	<b>(ft)</b>	(ft)	(ft)	H <sub>mt</sub>	+ Dia.	+Hf		H.E. + H <sub>mt</sub>	Elevation		Number
5	5	4	498.05	497.60	69.7	0.0065	12	2.87	0.82	1.04	0.00	0.02	0.01	0.013	0.04	0.02	0.00	0.02	499.05	499.14	499.11	499.17	501.75	2.58	5
4	4	3	497.60	497.50	16.8	0.0060	15	5.00	0.82	0.67	0.70	0.01	0.01	0.013	0.00	0.00	0.00	0.00	498.85	499.10	499.10	499.11	502.00	2.89	4
3	3	2	497.50	494.50	272.9	0.0110	15	6.79	4.18	3.41	0.62	0.18	0.75	0.013	1.14	0.24	0.11	0.35	498.75	497.64	496.50	499.10	502.00	2.90	3
2	2	1	494.00	493.00	74.0	0.0135	18	12.25	8.39	4.75	0.35	0.35	2.94	0.013	0.47	0.35	0.65	1.00	495.50	494.97	494.50	496.50	498.50	2.00	2
1	1		493.00											S	tarting H	HGL = top o	f pipe at	1							
	MEAN F		W VELOO	<b>V = Q</b> <sub>AC</sub>	T./A <sub>PIPE</sub>		JUNCTION	LOSSES	 (JUNC.) = [	<b>Q</b> <sub>out</sub> Vh <sub>out</sub> - Surr	ן ז (Q <sub>in</sub> V <sub>in</sub> )]x1	.33/Q <sub>out</sub>		Note:	1. IF M	ORE THA			NG LINE, (	L CALCULAT	E EACH BE	END LOSS	S AND AD	D TOGE	THER.
	FRICTIC	N LOSS	<b>(H</b> <sub>f</sub> ):	Hf = 2.87	' <b>n</b> <sup>2</sup> (LV <sup>2</sup>	<sup>2</sup> /d <sup>1.33</sup> )	BEND LOS	SES (BEN	<b>D) = <math>(V_{in}^2/2g)</math></b>	g) * ANGLE CO	EFFICIENT				2. NO S	STRUCTU	RE LOS	SES TO	BE CALC	ULATED A	T A DROP.				
	VELOCI	TY HEAD		$V_{\rm h} = V^2/2$	2a										3 IF Q	$V_{h(in)} > Q_{h(in)}$			TION LOS	SES TO BE	CALCULA	TED			

EXISTING DRAINAGE AREA

### PROPOSED DRAINAGE AREA

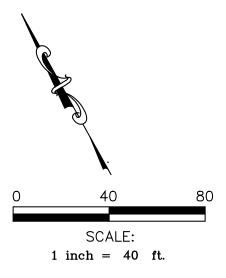


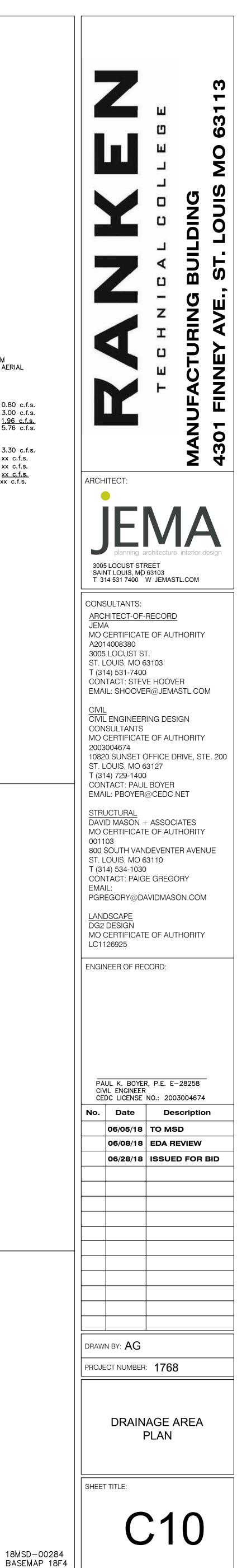
 Denotes Set 1/2" x 18" Rebar with cap stamped "Marler L.S.-347-D" ○ – Denotes Found 1/2" Iron Pipe

### DRAINAGE AREA

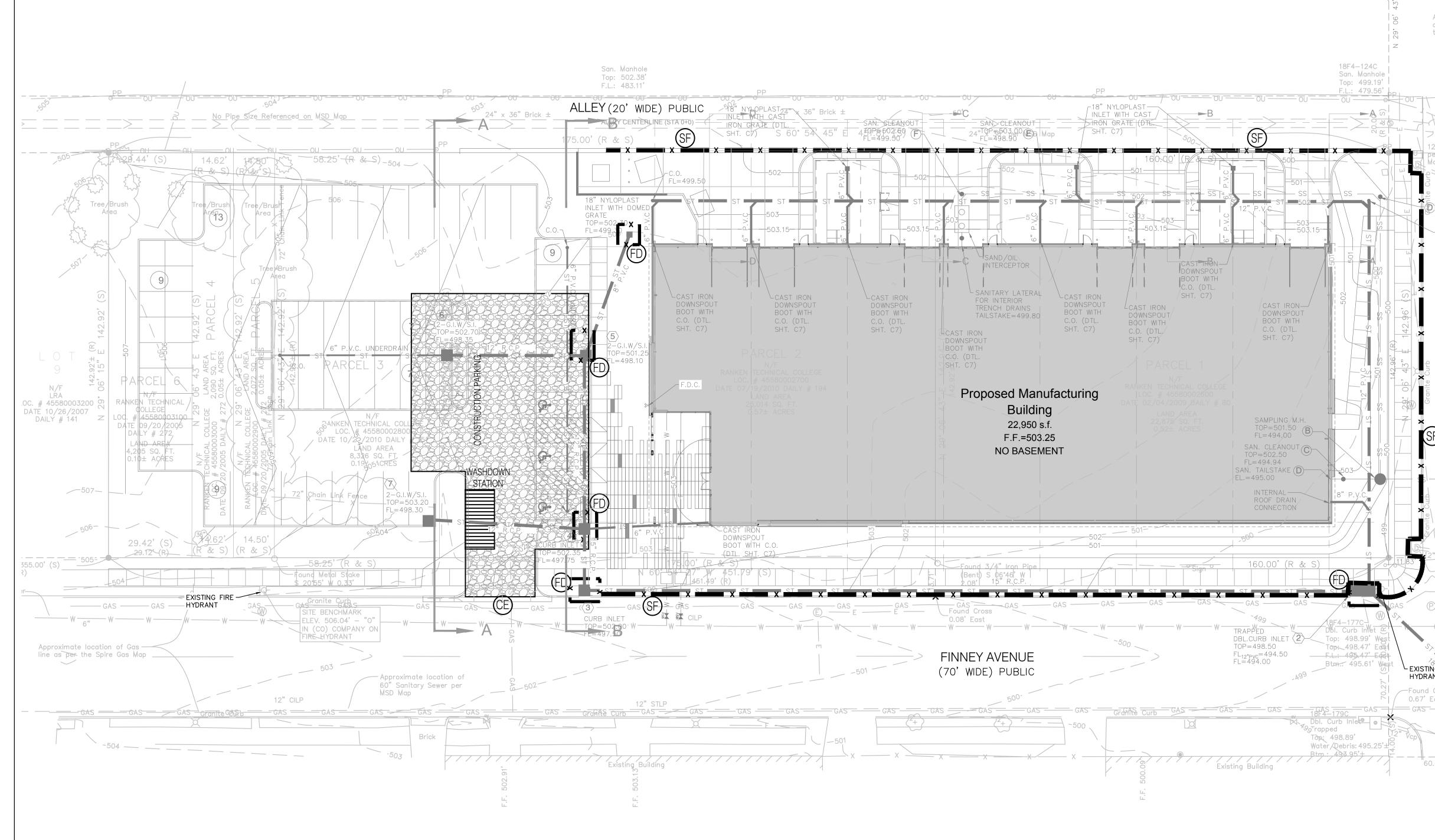
NOTES: 1. ANALYSIS BASED UPON 20-YEAR / 20 MINUTE STORM 2. COMPARISON OF EXISTING CONDITION ASSUMES 2000 AERIAL

EXISTING SITE: (2000 AE		
GRASS	0.45 ac. x 1.78 c.f.s./ac.	= 0.80  c.f.s
BLDG	0.50 ac. x 6.00 c.f.s./ac.	= 3.00  c.f.s
PAVEMENT	<u>0.53 ac.</u> x 3.70 c.f.s./ac.	= 1.96  c.f.s
	1.48 ac	= 5.76  c.f.s
PROPOSED SITE:		
BLDG. (PIPED)	0.55 ac. x 6.00 c.f.s./ac.	= 3.30 c.f.s
PAVEMÈNT	0.65 ac. x 3.70 c.f.s./ac.	= xx c.f.s.
PERMEABLE PAVEMENT	0.00 ac. x 1.78 c.f.s./ac.	= xx c.f.s.
GRASS	<u>0.28 ac.</u> x 1.78 c.f.s./ac.	= <u>xx c.f.s.</u>
	1.48 ac.	xx c.f.s.
DIFFERENTIAL RUNOFF		
xx c.f.s. – 5.76 c.f	.s. = $-xx$ c.f.s. (Decrease)	





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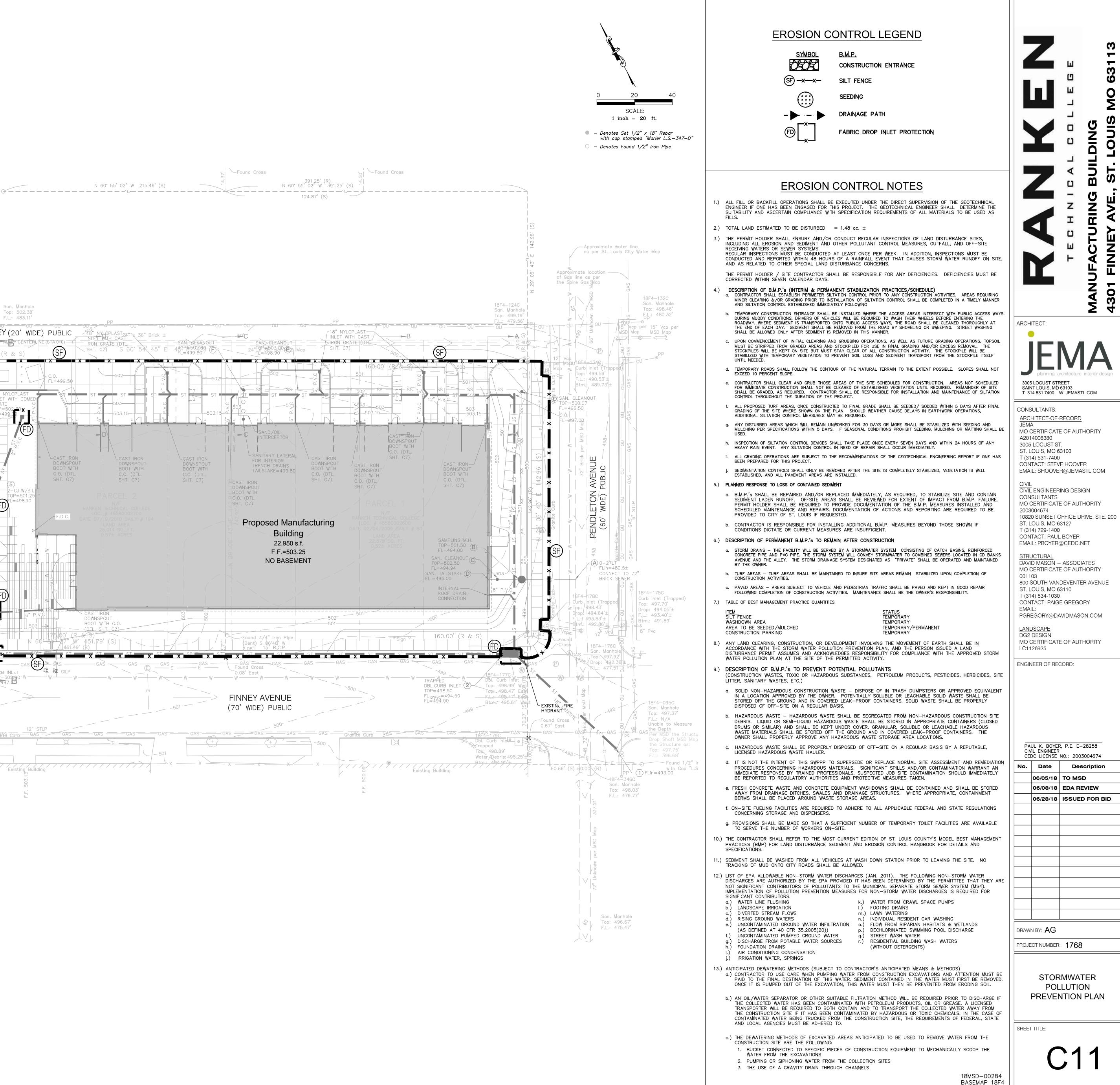
Found Cross

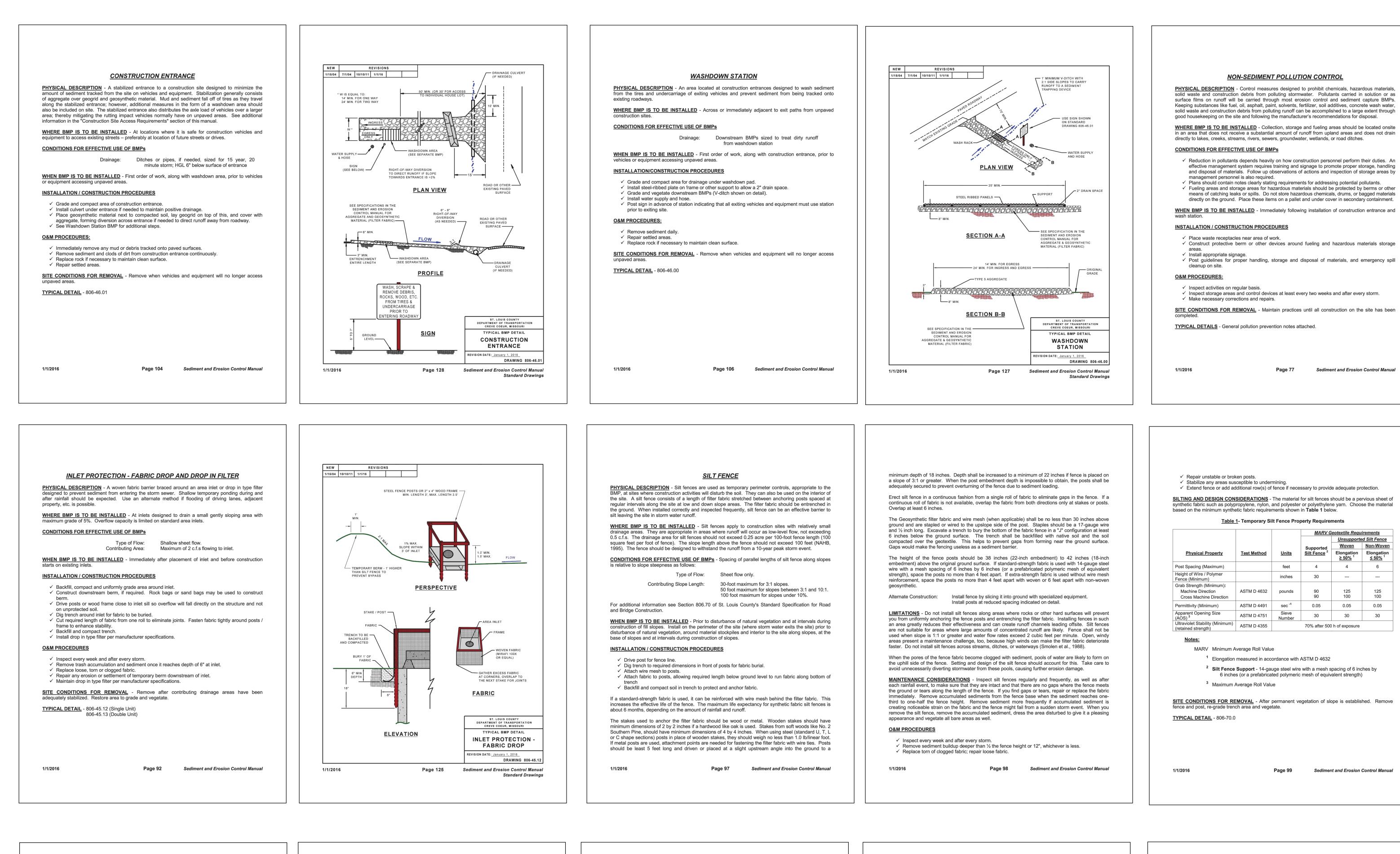
-Found Cross

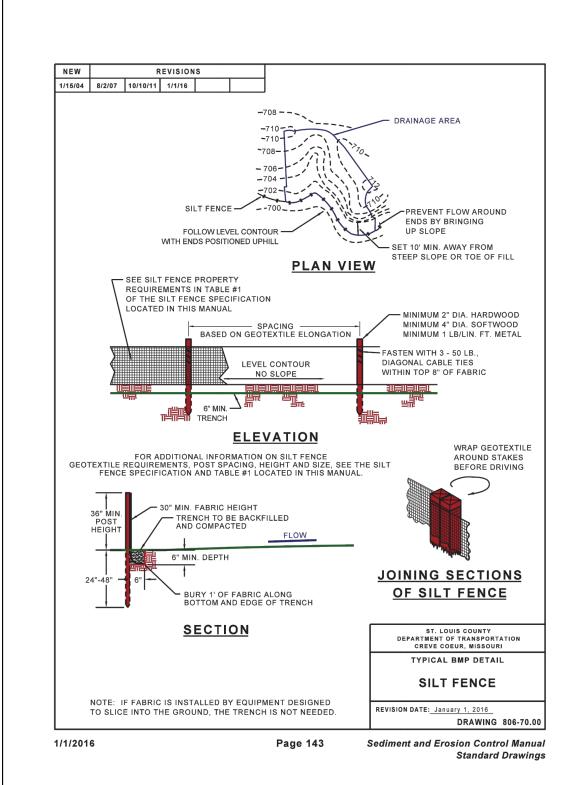
N 60° 55' 02" W 391.25' (S)

124.87'(S)

N 60°55'02"W 215.46'(S)







SEEDING PHYSICAL DESCRIPTION - Establishment of vegetation by spreading grass seed designed to protect	SEEDING REQUIREMENTS Dates for Seeding	<b>SODDING</b> <b>PHYSICAL DESCRIPTION</b> - A ¾ inch to 1-inch thick mat of vigorous turf, free of disease, insects and
exposed soil from erosion by eliminating direct impact of precipitation and slowing overland flow rates. Once established, the vegetative cover will also filter pollutants from the runoff. Use only perennial vegetation for final stabilization.	Dates for SeedingPermanent SeedingJanFebMarchAprilMayJuneJulyAugSepOctNovDecTall Fescue00000000000Smooth Brome00000000000	weeds. Sod prevents raindrops from disrupting the soil structure and causing erosion. Sod slows water runoff and acts as a filter when sediment-laden runoff crosses over the sodded area.
WHERE BMP IS TO BE INSTALLED - To exposed soil after a phase of rough or finish grading has been completed, or areas where no activity will occur for 30 days.	Fescue & Brome     O     O     O     O     O       Fescue, Rye & Bluegrass     A     A     O     O     O     P     P       Temporary Seeding     Jan     Feb     March     April     May     June     July     Aug     Sep     Oct     Nov     Dec	WHERE BMP IS TO BE INSTALLED - Typically installed in areas requiring immediate erosion protection, such as swales or detention ponds and as filter strips, around inlets, and adjacent to curbs. Also installed in areas requiring immediate aesthetic appearance or function such as entrances to new subdivision and off site construction areas.
Type of Flow: Sheet flow Contributing Slope Length: 30 foot maximum for 3:1 slopes	Rye or Sudan         A         A         O         O         O         O         O         O         O         A         A           Oats         A         O         O         O         O         O         O         O         A         A	CONDITIONS FOR EFFECTIVE USE OF BMPs - Type of Flow: Sheet flow and low concentrated flows with velocities less than 5 fps.
50 foot maximum for slope between 3:1 and 10:1100 foot maximum for slopes under 10%Minimum Rates:Acceptable Dates:See attached chart	<ul> <li>O = Optimum seeding dates</li> <li>A = Acceptable seeding dates</li> <li>P = Permitted seeding dates with reseeding 2 months later - Initially use 50% of seed and 75% of fertilizer. Reseed with additional 75% seed and remaining fertilizer.</li> </ul>	WHEN BMP IS TO BE INSTALLED - Immediately after finish grading, installation of area inlets, and installation of underground services and foundations of new homes.
WHEN BMP IS TO BE INSTALLED - Immediately after rough or finished grading is completed.		INSTALLATION / CONSTRUCTION PROCEDURES
INSTALLATION / CONSTRUCTION PROCEDURES		<ul> <li>✓ Finish grade area and remove all debris larger than ½ inch in diameter and concentrated areas of smaller debris.</li> <li>✓ Soil preparation of area to be sodded shall be determined by tests to determine lime and fertilizer</li> </ul>
<ul> <li>Install upstream BMPs to protect area to be seeded.</li> <li>Rough grade area and remove all debris larger than 1-inch in diameter and concentrated areas of smaller debris.</li> </ul>	Minimum Fertilizer and Seeding Rates           Permanent Seeding*         Pounds per acre         Pounds Per 1000 sq. ft.	requirements. Soil amendments shall be mixed into top 3 to 6 inches of soil by disking or other means. ✓ Level and roll soil lightly to provide an even grade and firm the surface. Soil should not be
<ul> <li>✓ Install stabilization grids, if needed.</li> <li>✓ Mix soil amendments (lime, fertilizer, etc.) into top 3 to 6 inches of soil as needed.</li> <li>✓ Plant seed ¼ to ½ inch deep.</li> </ul>	Tall Fescue         300         7.0           Smooth Brome         200         4.6           Mixture # 1         250         5.7	<ul> <li>excessively wet or dry.</li> <li>✓ Lay first row of sod perpendicular to the slope or direction of flow. Butt subsequent rows tight against previous rows with strips staggered in brick-like pattern. Fill minor gaps with good soil</li> </ul>
<ul> <li>Roll lightly to firm surface.</li> <li>Cover seeded area with mulch unless seeding completed during optimum spring and summer dates.</li> <li>Install additional stabilization (netting, bonded fiber matrix, etc.) as required.</li> <li>Water immediately - enough to soak 4 inches into soil without causing runoff.</li> <li>If contract / permit allows seeding to be used for final stabilization, only perennial vegetation seeds shall be used.</li> </ul>	Mixture # 2       210       4.8         Mixture # 1 = Tall Fescue @ 150 pounds per acre and Brome @ 100 pounds per acre.       Mixture # 2 = Tall Fescue @ 100 pounds per acre; Perennial Rye grass @ 100 pounds per acre; and Kentucky Blue grass @ 10 pounds per acre.         * = Seeding rate for slopes in excess of 20% (5:1), shall be 10 pounds per 1000 sq. ft.	<ul> <li>And roll entire surface to ensure contact.</li> <li>Stake, staple and / or net corners and centers of sod strips as required.</li> <li>Water immediately after installation enough to soak 4 inches into soil without causing runoff.</li> <li>For additional information see Section 803 of St. Louis County's Standard Specification for Road and Bridge Construction.</li> <li>Type of sod shall be as specified in the contract or on the approved plans.</li> </ul>
✓ For additional information see Sections 805 and 806.50 of St. Louis County's Standard Specification for Road and Bridge Construction.	Temporary Seeding         Pounds per acre         Pounds Per 1000 sq. ft.           Rye or Sudan         150         3.5	O&M PROCEDURES:
O&M PROCEDURES: ✓ Inspect every week and after every storm ✓ Protect area from vehicular and foot traffic	Ng bi sudan         150         3.3           Oats         200         2.5	<ul> <li>Water sod daily for 3 weeks - enough to soak 4-inches into soil without causing runoff.</li> <li>Reposition areas of sod that has moved along the slope.</li> <li>Remove sediment accumulations - replace sod if necessary.</li> </ul>
<ul> <li>Reseed areas that have not sprouted within 21 days of planting.</li> <li>Repair damaged or eroded areas and reseed and stabilize as needed</li> <li>Do not mow until 4 inches of growth occurs</li> </ul>	Permanent Seeding         Temporary Seeding           Fertilizer         (pounds per acre)         (pounds per acre)           Nitrogen         45         30	<ul> <li>✓ Repair any eroded areas, replace sod, and stabilize as needed.</li> <li>✓ Do not mow until 3-inches of new growth occur. During the first 4 months, mow no more than ⅓ the grass height.</li> </ul>
<ul> <li>✓ During the first 4 months, mow no more than ¼ the grass height</li> <li>✓ Re-fertilize during 2<sup>nd</sup> growing season</li> </ul>	Phosphate         65         30           Potassium         65         30	SITE CONDITIONS FOR REMOVAL - Not applicable.
SITE CONDITIONS FOR REMOVAL - Does not require removal, but temporary seeding can be removed immediately prior to work returning to an area	Lime - ENM     600     600       ENM =     Effective neutralizing material per State evaluation of quarried rock.	TYPICAL DETAIL - 803-10.00
1/1/2016 Page 70 Sediment and Erosion Control Manual	1/1/2016 Page 71 Sediment and Erosion Control Manual	1/1/2016 Page 73 Sediment and Erosion Control Manual

### k mat of vigorous turf, free of disease, insects and e soil structure and causing erosion. Sod slows runoff crosses over the sodded area. installed in areas requiring immediate erosion s filter strips, around inlets, and adjacent to curbs.

### <u>SODDING</u>

PHYSICAL DESCRIPTION - A ¾ inch to 1-inch thick mat of vigorous turf, free of disease, insects and weeds. Sod prevents raindrops from disrupting the soil structure and causing erosion. Sod slows water runoff and acts as a filter when sediment-laden runoff crosses over the sodded area. WHERE BMP IS TO BE INSTALLED - Typically installed in areas requiring immediate erosion protection, such as swales or detention ponds and as filter strips, around inlets, and adjacent to curbs. Also installed in areas requiring immediate aesthetic appearance or function such as entrances to new subdivision and off site construction areas. CONDITIONS FOR EFFECTIVE USE OF BMPs - Type of Flow: Sheet flow and low concentrated flows

with velocities less than 5 fps WHEN BMP IS TO BE INSTALLED - Immediately after finish grading, installation of area inlets, and installation of underground services and foundations of new homes. INSTALLATION / CONSTRUCTION PROCEDURES

✓ Finish grade area and remove all debris larger than ½ inch in diameter and concentrated areas

- of smaller debris. ✓ Soil preparation of area to be sodded shall be determined by tests to determine lime and fertilizer
- requirements. Soil amendments shall be mixed into top 3 to 6 inches of soil by disking or other  $\checkmark$  Level and roll soil lightly to provide an even grade and firm the surface. Soil should not be
- excessively wet or dry. ✓ Lay first row of sod perpendicular to the slope or direction of flow. Butt subsequent rows tight against previous rows with strips staggered in brick-like pattern. Fill minor gaps with good soil
- and roll entire surface to ensure contact. Stake staple and / or net corners and centers of sod strips as required ✓ Water immediately after installation enough to soak 4 inches into soil without causing runoff.
- ✓ For additional information see Section 803 of St. Louis County's Standard Specification for Road and Bridge Construction.
- $\checkmark$  Type of sod shall be as specified in the contract or on the approved plans.
- O&M PROCEDURES: ✓ Water sod daily for 3 weeks - enough to soak 4-inches into soil without causing runoff.
- ✓ Reposition areas of sod that has moved along the slope. ✓ Remove sediment accumulations - replace sod if necessary.
- ✓ Repair any eroded areas, replace sod, and stabilize as needed.  $\checkmark$  Do not mow until 3-inches of new growth occur. During the first 4 months, mow no more than  $\frac{1}{3}$ the grass height.

SITE CONDITIONS FOR REMOVAL - Not applicable.

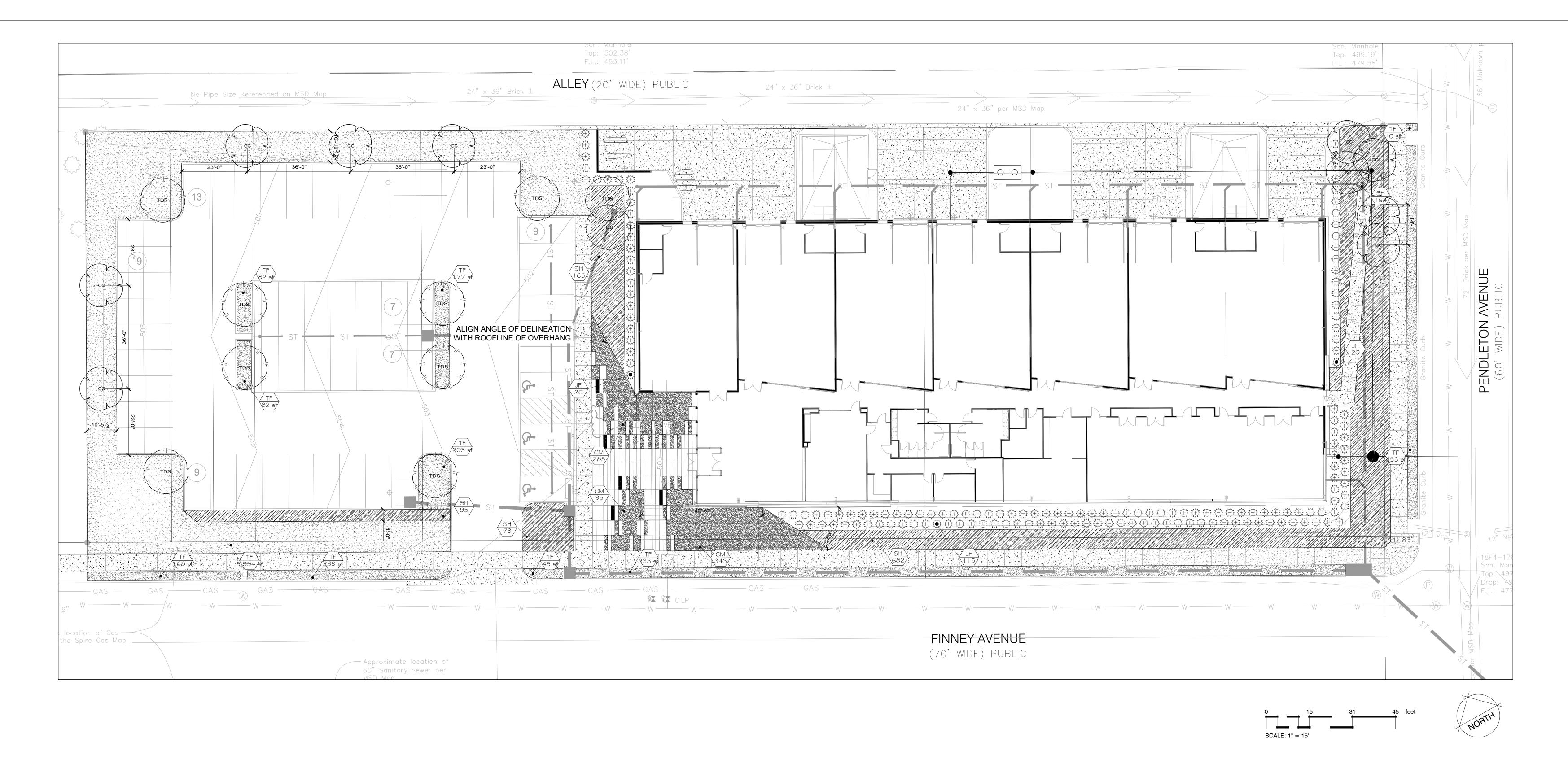
TYPICAL DETAIL - 803-10.00

1/1/2016

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PLANT SCHEDULE							
TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL		HGT		QTY
	СС	CERCIS CANADENSIS `FOREST PANSY` TM / FOREST PANSY REDBUD	MULTISTEM	B+B	8 FT.		10
	TDS	TAXODIUM DISTICHUM `SHAWNEE BRAVE` TM / BALD CYPRESS	3" CAL	B+B			10
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT				QTY
	JP	JUNIPERUS X PFITZERIANA `GOLD COAST` / GOLD COAST JUNIPER	3 GAL				161
PERENNIAL GRASSES	<u>CODE</u> SH	BOTANICAL NAME / COMMON NAME SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	<u>CONT</u> I GAL			SPACING 24" o.c.	<u>QTY</u> 1,179
GROUND COVERS	CODE	BOTANICAL NAME / COMMON NAME	CONT			SPACING	QTY
	СМ	CAREX MIX / SEDGE MIX	I QT.			8" o.c.	723
	TF	TURF SOD FESCUE / DROUGHT TOLERANT FESCUE BLEND	SOD				8,387 SF

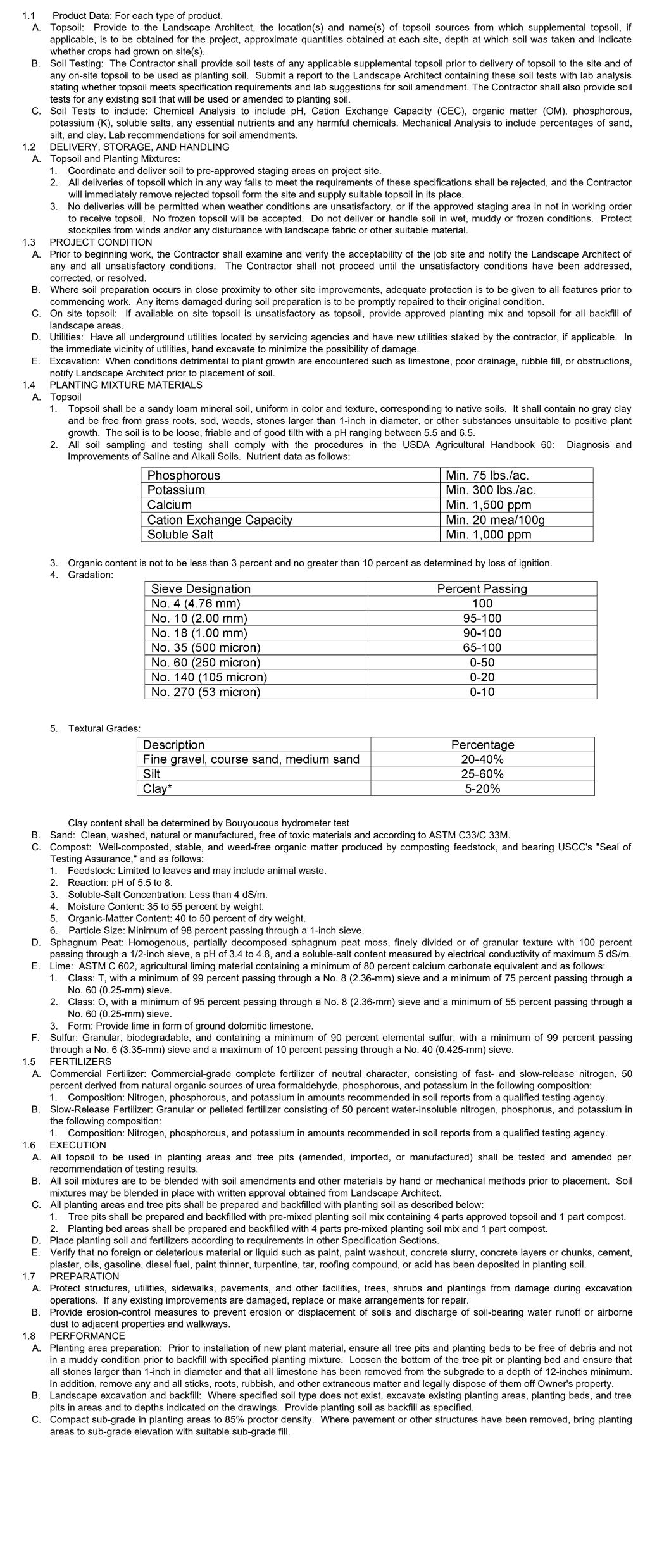
### GENERAL NOTES:

- 1. BASED UPON DRAWINGS: 1.1. CIVIL SITE PLAN BY CEDC, RECEIVED FROM JEMA ARCHITECTS 06/08/18
- 1.2. ARCHITECTURAL FLOOR PLAN AND SITE PLAN BY JEMA ARCHITECTS, RECEIVED 06/06/18
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO ANY CONSTRUCTION.
- 3. LOCATIONS OF STRUCTURES AND UTILITIES ARE APPROXIMATE AND SHALL BE THE CONTRACTOR' S RESPONSIBILITY TO DETERMINE OR VERIFY THEIR EXISTENCE AND EXACT LOCATION AND AVOID ANY DAMAGE. 4. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND UTILITIES DURING THE
- LANDSCAPE INSTALLATION.
- NOTIFIY MISSOURI DIG-RITE (1-800-344-7483) A MINIMUM OF 72 HOURS PRIOR TO DIGGING. 6. REPORT ANY DISCREPANCIES FOUND WITH REGARD TO EXISTING CONDITIONS OR PROPOSED DESIGN IMMEDIATELY TO LANDSCAPE ARCHITECT.
- 7. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHERE IT IS FOUND THAT KNOWN DISCREPANCIES EXIST. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

	SEDGE MIX						
Botanical Name	Common Name	Percentage of Mix	Quantity				
Carex albicans	White-tinged Sedge	50 %	361				
Carex pensylvanica	Pennsylvania Sedge	50%	362				

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DAVID MO CE 001103 800 SC ST. LO T (314) CONTA EMAIL:	DUTH VANI UIS, MO 6 534-1030 ACT: PAIGI GORY@DA	E OF AU DEVEN 3110 E GREG	UTHOF ITER A' GORY	RITY VENUE	
LC1120 4835 M EUREK T (636) CONTA EMAIL:	ERTIFICATE 5925 10-109, ST (A, MO 630 549-9007 ACT: KRIST KDEGUIR FOR C	E. 102 )25 IY DEG E@DG	GUIRE	GN.COM	
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SHEET LAND	TITLE: SCAPE P	PLANT	ING P	LAN	

SOIL PREPARATION SPECIFICATIONS



- D. After planting areas have been prepared and planting operations completed, backfill planting areas and tree pits with specified planting mixtures to grades indicated on project drawings. E. Finish grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove
- ridges, and fill depressions to meet finish grades. 1.9 PROTECTION AND CLEANING
- F. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations: 3. Storage of construction materials, debris, or excavated material.
- 4. Parking vehicles or equipment.
- 5. Vehicle traffic.
- 6. Foot traffic.
- 7. Erection of sheds or structures. 8. Impoundment of water.
- Excavation or other digging unless otherwise indicated.
- B. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated. 10. Dispose of excess subsoil and unsuitable materials on-site where directed by Owner.
- PLANTING SPECIFICATIONS:
- 1.1 PRIOR TO PLANTING
- A. Notify the landscape architect upon ordering of plant stock. all trees and shrubs are to be approved, and tagged at nursery by the landscape architect prior to delivery to the site. B. Plant locations are to be staked in the field, the location of all plant material will be approved in the field by the landscape
- architect. notify the landscape architect a minimum of 2 days prior to planting. do not dig holes for plants until the location is approved.
- C. Contractor is to verify all plant quantities. bring any discrepancies to the attention of the landscape architect. in case of a conflict between the plan drawings and the written plant schedule, the written plant schedule will prevail. 1.2 DELIVERY, STORAGE, AND HANDLING
- A. Do not prune trees before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.
- B. Handle planting stock by root ball. C. Deliver plants after preparations for planting have been completed and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.
- 1.3 PLANT MATERIAL
- A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant Schedule indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement. B. Root-Ball Depth: Furnish trees with root balls measured from top of root ball, which begins at root flare according to ANSI Z60.1. Root flare shall be visible before planting.
- 1.4 FERTILIZERS

A. Planting Tablets: Tightly compressed chip-type, long-lasting, slow-release, commercial-grade planting fertilizer in tablet form. Tablets shall break down with soil bacteria, converting nutrients into a form that can be absorbed by plant roots.

- B. Size: 5-gram and 21-gram tablets. C. Nutrient Composition: 20 percent nitrogen, 10 percent phosphorous, and 5 percent potassium, by weight plus micronutrients.
- 1.5 MULCHES A. Organic Mulch: Shredded hardwood mulch shall be double ground, hardwood, natural color.
- 1.6 PESTICIDES A. General: Pesticide registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by
- manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction. 1.7 PLANTING SOIL
- A. Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. B. Planting soil may be a prepared soil by a reputable local nursery or similar source, or existing soil may be amended with
- compost and mixed by contractor on site. C. Planting soil shall be free of stones, stumps, roots or other woody material over 1 inch in diameter. for best results brush or
- seeds from noxious weeds, such as johnson grass, mugwort, nutsedge and canadian thistle should not be present in the
- D. Planting soil shall have a ph range of: 5.0 7.0 E. Planting soil shall contain 2-10% organic matter
- F. Planting soil shall be installed with all trees, shrubs, perennials, and groundcovers as specified in the details on I200.
- 1.8 PLANTING WINDOW
- A. Contractor shall install trees, shrubs, and perennial plugs within the recommended planting window: September 15 May 15. Any plant installation that falls outside of this window shall be approved by the Landscape Architect and Owner. 1.9 EXCAVATION FOR TREES
- A. Planting Pits and Trenches: Excavate circular planting pits.
- B. Excavate planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.
- C. Excavate approximately two times as wide as ball diameter.
- D. Excavate at least 12 inches wider than root spread and deep enough to accommodate vertical roots for bare-root stock. E. Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.
- F. Backfill Soil: Subsoil and topsoil removed from excavations may be used as backfill soil if it meets the requirements of the planting soil mixture as specified in Section 329113 "Soil Preparation"
- 1.10 TREE PLANTING

### A. Inspection: At time of planting, verify that root flare is visible at top of root ball and undamaged according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

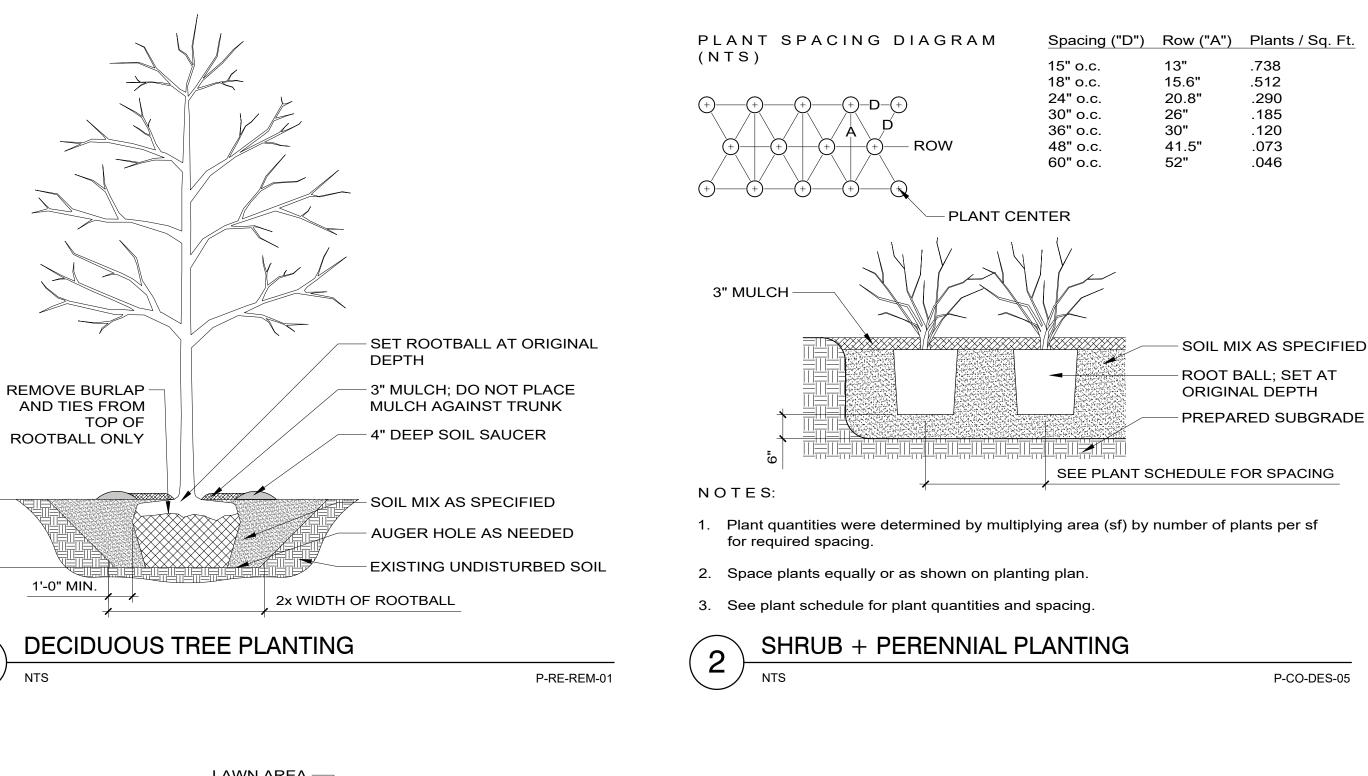
- Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.
- C. Set each tree plumb and in center of planting pit or trench with root flare 2 inches above adjacent finish grades
- D. Balled and Burlapped Stock: After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation. . Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half
- filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Place planting tablets equally distributed around each planting pit when pit is approximately one-half filled. Place tablets beside the root ball about 1 inch from root tips; do not place tablets in bottom of the hole.
- G. Size: 21g tablet.
- H. Quantity: Two for each caliper inch of tree. Continue backfilling process. Water again after placing and tamping final layer of soil.
- Slopes: When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball. 1.11 TREE PRUNING
- A. Prune, thin, and shape trees, according to standard professional horticultural and arboricultural practices. Unless otherwise indicated by Landscape Architect, do not cut tree leaders; remove only injured, dying, or dead branches from trees; and prune to retain natural character.
- B. Do not apply pruning paint to wounds.
- 1.12 SHRUB AND PLUG PLANTING
- A. Set out and space plugs as indicated on Drawings in even rows with triangular spacing. B. Set shrubs plumb and in center of planting pit or trench with root flare 2 inches above adjacent finish grades. Free root flare of girdled or kinked roots by cutting cleanly.
- C. Use planting soil per the requirements of notes on this sheet.
- D. Dig holes large enough to allow spreading of roots. Place planting tablets at the edge of the planting pit; do not place tablet in bottom of the hole.
- F. Size: 5g tablet.
- G. Quantity: One for each plant.
- H. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
- Water thoroughly after planting, taking care not to cover plant crowns with wet soil. J. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.
- 1.13 PLANTING AREA MULCHING A. Mulch backfilled surfaces of planting areas and other areas indicated.

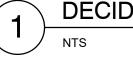
B. Apply organic hardwood mulch of 3-inch average thickness, with a diameter equal to twice the width of the root ball around trunks of trees. Apply same mulch for shrub and perennial planting areas as shown on the Drawings. Do not place mulch within 4 inches of tree trunks, or in direct contact with shrub or perennial stems.

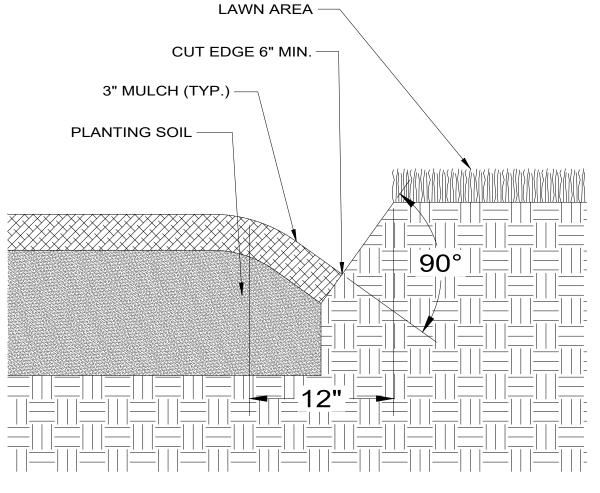
- TURF AND GRASSES SPECIFICATIONS
- A. The soil-testing laboratory shall oversee soil sampling.

- 1.2 TURFGRASS SOD

- 1.3 TURF MAINTENANCE
- Owner before each application is performed.









1.1 Soil Analysis: For each unamended soil type, furnish soil analysis and a written report by a qualified soil-testing laboratory.

B. Report suitability of tested soil for turf growth.

C. State recommendations for nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory planting soil suitable for healthy, viable plants. D. Report presence of problem salts, minerals, or heavy metals; if present, provide additional recommendations for corrective action.

A. TURFGRASS SOD: PREMIUM QUALITY TURFGRASS SOD. FREE OF THATCH. WEEDS. DISEASES. NEMATODES. AND INSECTS. COMPLYING WITH "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" IN TPI'S "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING." FURNISH VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE THAT IS STRONGLY ROOTED AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.

B. TURFGRASS SPECIES: SOD OF GRASS SPECIES AS FOLLOWS: 1. SHADE TOLERANT FESCUE BLEND: PROPORTIONED AS FOLLOWS:

a. 90 PERCENT TALL FESCUE BLEND, MINIMUM 3 VARIETIES.

b. 10 PERCENT KENTUCKY BLUEGRASS BLEND, MINIMUM 3 VARIETIES

C. LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY

D. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD: DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SOIL OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SOIL, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS.

2. LAY SOD ACROSS SLOPES EXCEEDING 1:3.

3. ANCHOR SOD ON SLOPES EXCEEDING 1:6 WITH WOOD PEGS OR STEEL STAPLES SPACED AS RECOMMENDED BY SOD MANUFACTURER BUT NOT LESS THAN TWO ANCHORS PER SOD STRIP TO PREVENT SLIPPAGE. E. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES (38 MM) BELOW SOD.

A. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.

B. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain height appropriate for species without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings. C. Apply pesticides and other chemical products and biological control agents in accordance with authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify

### SPADE CUT EDGE

P-CO-P19-MIDV-08



### DEFINITION OF TERMS: THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORM PROFESSIONAL SERVICES ON THIS PROJECT. THE WORD "PROJECT" AS USED IN THESE DOCUMENTS REFERS TO THE SCOPE OF WORK DESCRIBED IN THESE DOCUMENTS THE WORDS "CONTRACTOR", "GENERAL CONTRACTOR", AND "G.C." AS USED IN THESE DOCUMENTS REFER TO THE GENERAL CONTRACTOR SELECTED BY THE CLIENT TO PERFORM THE WORK DESCRIBED IN THESE DOCUMENTS. ALL NOTES IN THESE DOCUMENTS INSTRUCT THE GENERAL CONTRACTOR. THE WORD "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO ARCHITECT-OF-RECORD, JEMA. THE WORDS "CONSTRUCTION TEAM" REFER TO ALL PARTIES INVOLVED IN THE CONSTRUCTION PHASE, INCLUDING BUT NOT LIMITED TO: THE CLIENT AND THEIR CONSULTANTS; THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS; THE CONSULTING ENGINEERS AND THE ARCHITECT THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SUPERSEDES ANY DIMENSIONAL INFORMATION INDICATED. IF DISCREPANCIES OCCUR. NOTIFY ARCHITECT IMMEDIATELY THE WORD "PROVIDE" AS USED IN THESE DOCUMENTS MEANS FURNISH AND INSTAL THE WORDS "NOT IN CONTRACT" AND "N.I.C." AS USED IN THESE DOCUMENTS REFER TO WORK OR EQUIPMENT PROVIDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENTS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL PARTIES FURNISHING AND/OR INSTALLING N.I.C. ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION THE WORD "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE OF MAJOR SURFACE. COORDINATE REQUIREMENTS FOR BASE BOARD HEATERS OR OTHER PROTRUSIONS WITH ARCHITECT. THE WORD "MAXIMUM" OR "MAX." AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT 11. THE WORD "MINIMUM" OR "MIN" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR OUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT. 12. THE WORD "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT 13. THE SYMBOL "+/-" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSION OR QUANTITY IS ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. IF ACTUAL DIMENSION VARIES BY MORE THAN 1" FROM DIMENSION NOTED AS "+/-", INFORM ARCHITECT BEFORE PROCEEDING. CONTRACTOR'S RESPONSIBILITY

ALL NOTES IN THESE DOCUMENTS INSTRUCT THE GENERAL CONTRACTOR OR, AT HIS DISCRETION, HIS SELECTED SUBCONTRACTORS.

- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE ALL SUBCONTRACTORS RECEIVE THIS SHEET OF GENERAL NOTES IN ADDITION TO TRADE-SPECIFIC INFORMATION.
- VISIT THE PROJECT SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT. NOTIFY THE CLIENT, THE BUILDING OWNER, AND THE ARCHITECT OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.
- SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND/OR DESIGN INTENT, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BID SUBMITTAL AND/OR PROCEEDING
- WITH ANY WORK, OR RELATED WORK, IN QUESTION THESE CONTRACT DOCUMENTS ARE INTENDED TO DESCRIBE ONLY THE SCOPE AND APPEARANCE OF THE REAL PROPERTY IMPROVEMENTS, INCLUDING THE PERFORMANCE AND LEVEL OF QUALITY EXPECTED OF ITS COMPONENTS. IT IS INCUMBENT UPON THE CONTRACTOR TO ENSURE THAT ALL WORK COMPLETED AND MATERIALS INSTALLED BE IN FULL COMPLIANCE, AS A MINIMUM STANDARD, WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION.
- THOROUGHLY REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND AS AMENDMENTS MAY BE MADE AS CONSTRUCTION PROCEEDS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, INCONSISTENCIES, ERRORS OR OMISSIONS THAT MAY BE DISCOVERED. IN SUCH CASES, OBTAIN CLARIFICATION OR VERIFICATION OF INTENT FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK
- VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AT THE PROJECT SITE. NOTIFY ARCHITECT OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE
- PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE WRITTEN CODES, ORDINANCES, LAWS, RULES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. IF THE CONTRACTOR PERFORMS OR PROCEEDS IN A MANNER CONTRARY TO ANY SUCH REQUIREMENTS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THEREFORE AND SHALL BEAR COSTS RESULTING FROM NONCOMPLIANCE OR VIOLATION INCLUDING COSTS ASSOCIATED WITH REPAIRING, REPLACING OR OTHERWISE BRINGING THE WORK INTO CONFORMANCE. BRING TO THE ARCHITECT'S ATTENTION ANY CONDITIONS REPRESENTED IN THE CONTRACT DOCUMENTS THAT ARE NOT IN CONFORMANCE WITH APPLICABLE REQUIREMENTS
- PERFORM ALL WORK IN CONFORMANCE WITH ALL BUILDING OWNER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO WORK HOURS, CONSTRUCTION PROCEDURES, MATERIAL DELIVERY AND STORAGE, ELEVATOR AND RESTROOM ACCESS, PERSONAL CONDUCT, ETC. CONTACT OWNER FOR REQUIREMENTS PROVIDE CLIENT WITH WRITTEN CONSTRUCTION SCHEDULE IMMEDIATELY AFTER AWARD OF CONTRACT SCHEDULE TO SHOW PHASING OF ALL NEW WORK AND WORK IN EXISTING FACILITY BY CATEGORY AND
- SUBCONTRACTOR. PRODUCE AND DISTRIBUTE TO CONSTRUCTION TEAM A CONSTRUCTION SCHEDULE AT FIRST CONSTRUCTION MEETING. SCHEDULE TO IDENTIFY MAJOR MILESTONES AND BE BROKEN DOWN BY TRADE. AT FIRST CONSTRUCTION MEETING, IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL SEQUENCING AND DEADLINES, AND DATE OF SUBSTANTIAL COMPLETION.
- CONDUCT WEEKLY ON SITE CONSTRUCTION MEETINGS AT A TIME MUTUALLY AGREED UPON BY THE CONSTRUCTION TEAM. DISTRIBUTE MEETING NOTES PRIOR TO THE NEXT CONSTRUCTION MEETING, INCLUDING
- THE UPDATED CONSTRUCTION SCHEDULE. PRIOR TO THE START OF CONSTRUCTION, G.C. AND ALL SUBCONTRACTORS TO CONFIRM ALL MATERIALS AND FINISHES WITHIN SCOPE OF WORK ARE AVAILABLE IN SUFFICIENT QUANTITY AND WITHIN THE REQUIRED TIMEFRAME ESTABLISHED IN THE CONSTRUCTION SCHEDULE. G.C. TO INFORM CLIENT AND ARCHITECT OF ANY MATERIALS OR FINISHES THAT ARE NOT IN STOCK, WILL NOT BE AVAILABLE IN TIME TO MEET THE CONSTRUCTION SCHEDULE REQUIREMENTS, OR WHERE THE SUBCONTRACTOR OR SUPPLIER IS UNABLE OR UNWILLING TO COMMIT TO THE CONSTRUCTION SCHEDULE
- PROVIDE STRUCTURAL TESTS AND SPECIAL INSPECTIONS AS REQUIRED BY CODE.

### **EXISTING CONDITIONS AND CHANGE ORDERS**

- PRIOR-TO SUBMITTING THE CONSTRUCTION BID, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS AND ANY CRITICAL DIMENSIONS ASSOCIATED WITH THE PROPOSED WORK. THE CONTRACTOR SHALL CONFIRM THAT ALL WORK OUTLINED WITHIN THESE DOCUMENTS MAY BI ACCOMPLISHED AS SHOWN, PRIOR TO THE COMPLETION OF THE BIDDING PROCESS, AND SHALL NOTIFY BOTH THE ARCHITECT AND THE BUILDING OWNER OF ANY CONDITIONS ENCOUNTERED WHICH MAY EFFECT BUILDING CODE COMPLIANCE, LIFE SAFETY AND ASSURANCE OF A CERTIFICATE OF OCCUPANCY, THE TIMELY COMPLETION FOR THE PROJECT OR ESTABLISHED BUDGET OF SUCH WORK
- NO ADDITIONAL FUNDS WILL BE APPROVED FOR WORK OMITTED FROM THE CONSTRUCTION BID DUE TO LACK OF VERIFICATION BY THE CONTRACTOR, EXCEPT AS OTHERWISE APPROVED BY THE OWNER FOR WORK ASSOCIATED WITH "HIDDEN" CONDITIONS NOT ACCESSIBLE PRIOR TO CONSTRUCTION

### SUBMITTALS

- SUBMIT ALL SUBCONTRACTOR SHOP DRAWINGS AND SUBMITTALS TO ARCHITECT FOR APPROVAL BEFORE FABRICATION OR INSTALLATION OF ANY ITEMS.
- SUPPLY A MINIMUM OF FIVE COPIES OF ALL SHOP DRAWINGS AND SUBMITTALS: ARCHITECT, GENERAL CONTRACTOR, SUBCONTRACTOR, FIELD COPY, AND CLIENT
- REQUIRED SHOP DRAWING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO: MILLWORK, H.V.A.C., PLUMBING, ELECTRICAL, GLASS AND GLAZING, DOOR HARDWARE, ALL ITEMS ON FINISH LEGEND, 2'X2' WALL FINISH SAMPLE, PAINTING AND WALLCOVERING
- CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED AS THE BASIS FOR REQUIRED SUBMITTALS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE ARCHITECT. SUBMITTALS CONTAINING CONTRACT DOCUMENTS OR PORTIONS OF CONTRACT DOCUMENTS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT ACTION OR COMMENT, AND ARE NOT TO BE USED FOR PROCUREMENT FABRICATION OR INSTALLATION OF ANY WORK IN THE PROJECT.
- ELECTRONIC SUBMITTALS: IDENTIFY AND INCORPORATE INFORMATION IN EACH ELECTRONIC SUBMITTAL FILE AS FOLLOWS: ASSEMBLE COMPLETE SUBMITTAL PACKAGE INTO A SINGLE INDEXED FILE INCORPORATING SUBMITTAL REQUIREMENTS OF A SINGLE SPECIFICATION SECTION AND TRANSMITTAL FORM WITH LINKS ENABLING NAVIGATION TO EACH ITEM.

### **GENERAL NOTES: DEMOLITION**

- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM
- INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN.
- HAZARDOUS MATERIALS: CLIENT ACCEPTS SOLE RESPONSIBILITY FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS RELATING TO THE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS AND THE OCCUPATIONAL SAFETY AND HEALTH ACT. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE. HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

### GENERAL NOTES: ARCHITECTURAL

- DOCUMENTS FOR USE BY INSPECTORS AT TIMES OF INSPECTION. DETAILS NOT SHOWN ARE TO BE SIMILAR IN CHARACTER TO THOSE DRAWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED THE CONTRACTOR IS TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK PROVIDE BLOCKING IN STUD WALLS BEHIND ITEMS SUPPORTED BY WALLS, OF SIZES, LENGTHS AND HEIGHTS AS REQUIRED. ATTACH BLOCKING TO STUDS WITH TYPE, SIZE, NUMBER AND SPACING OF ANCHORS AS REQUIRED TO PROPERLY SUPPORT LOADS OF ITEMS SUPPORTED. WHERE WOOD BLOCKING IS USED IT IS TO BE FIRE RETARDANT TREATED. WHERE METAL IS USED PROVIDE MIN 1/8 INCH THICK PLATE, WELDED, SCREWED OR BOLTED TO METAL STUD FRAMING. IF PLATES ARE NOT LOCATED COMPLETELY BEHIND ITEMS SUPPORTED, LET PLATES INTO STUDS OR OTHERWISE CONFIGURE SO THAT
- THERE ARE NO VISIBLE BULGES IN SURFACE OF FINISHED GYPSUM BOARD DUE TO THICKNESS OF PLATES BETWEEN STUDS AND GYPSUM BOARD. TO PREVENT GALVANIC ACTION BETWEEN DISSIMILAR METALS, WHERE DISSIMILAR METALS COME INTO CONTACT WITH EACH OTHER, WHERE METALS COME INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMINOUS COATING OR AN ELASTOMERIC FILM UNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.
- STEEL EXPOSED TO WATER AND/OR EXTERIOR WEATHER CONDITIONS IS TO BE GALVANIZED UNLESS
- PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION
- THE CONTRACT DOCUMENTS.
- RESPONSIBLE FOR KEEPING THE ACTUAL LOAD BELOW THE ALLOWABLE LIMITS. STANDARD FOR USE IN SUCH ASSEMBLIES.
- ALL BUILDING ACCESSIBILITY IS DESIGNED AND SHALL BE IN ACCORDANCE WITH I.B.C., ANSI 117.1 2003, 10. ADAAG AND DOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, WHICHEVER STANDARD PROVIDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEMENT EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. THE OPERATION OF THE SECURITY DEVICES SHALL BE COMPLIANT WITH THE CODES. SIGNAGE INDICATING ACCESSIBLE ENTRANCES, RESTROOMS, SIGNS PLAINLY VISIBLE STATING
- OWNER AND INSTALLED BY CONTRACTOR

11.

12.

13.

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19.

28.

- WILL BE BY OWNER AND INSTALLED BY CONTRACTOR.
- SEE SHEET A-902 FOR PARTITION TYPES. INSTALL WATER-RESISTANT GYP. BD. AT ALL WET WALLS, INCLUDING BUT NOT LIMITED TO RESTROOM AND SINK LOCATIONS. PROVIDE GYP. TILE BACKER BOARD AT ALL WALLS TO RECEIVE CERAMIC TILE EDGE OF DOOR SHALL BE LOCATED 6" OFF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
- FOR ALL DOORS INTO ELECTRICAL CONTROL PANELS, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER- OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL
- BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
- THERE IS NO WALL SPACE ON THE LATCH SIDE. BE SAFETY GLAZED
- BY CONTRACTOR. ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE. BELOW THE TOP OF THE DOOR THRESHOLD. DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES.
- PROVIDE GARBAGE DISPOSAL AT ALL BREAK ROOM SINKS. FIXTURES AND ACCESSORIES.
- LIMITED TO QUANTITIES, TYPES, AND LOCATIONS OF ELEMENTS

### **GENERAL NOTES: FINISH**

1.	G.C. TO REVIEW AND SUBMIT TO ARCHITECT ALL MATERIALS IN FINISH LEGEND. REFER TO PLANS, RCP, ELEVATIONS, FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORMATION AND LOCATIONS. SAMPLES TO BE THE SPECIFIED COLOR AND FINISH FOR REVIEW. SUPPLY A MINIMUM OF FIVE
	COPIES OF EACH ITEM: ARCHITECT, GENERAL CONTRACTOR, SUB-CONTRACTOR, FIELD COPY, AND CLIEN
2.	REFER TO PLANS, RCP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO ELEVATIONS FOR
	ADDITIONAL FINISH INFORMATION OR WHERE MULTIPLE FINISHES ARE INDICATED ON PLAN FOR THE SAM
	WALL.
3.	THE FINISH NAME TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS.
	CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING MATERIALS.
4.	IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND
	DATE OF SUBSTANTIAL COMPLETION.
5.	ALL INTERIOR FINISH AND SUNDRIES TO MEET OR EXCEED CLASS II FLAME SPREAD, 26 - 75 AND SMOKE
	DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE CODES.
6.	ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723
	(ASTM-E849A) FLAME SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS.
7.	ALL VINYL WALL COVERING FIRE HAZARD CLASSIFICATION (ASTM-E-84) FLAME SPREAD 5, FUEL
	CONTRIBUTION 0, SMOKE DENSITY FACTOR 5.
8.	U.N.O. ALL G.W.B. CEILINGS TO BE PAINTED PT-3. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL
	CEILING FINISHES.
9.	U.N.O. ALL HOLLOW METAL FRAMES TO RECEIVE PAINT PT-5. REFER TO DOOR SCHEDULE FOR ADDITIONA
	INFORMATION.
10.	U.N.O. ALL PAINTED SURFACES TO RECEIVE A MINIMUM OF ONE (1) PRIMER COAT AND THEN TWO (2) FINIS
	PAINT COATS. TINT PRIMER COAT PER MANUFACTURER'S SPECIFICATIONS.
11.	U.N.O. ALL GLASS IN DOORS AND SIDELITES TO BE GLASS GL-2.
12.	CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING REQUIRED FLOOR ASSEMB
	RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINIS
13.	INSTALL ALL FLOORING PER MANUFACTURER'S RECOMMENDATIONS AND ACCEPTED INDUSTRY
	PRACTICES, INCLUDING BUT NOT LIMITED TO MOISTURE TESTING, FLOOR PREPARATION, INSTALLATION
	METHOD, AND ADHESIVES. VERIFY WITH ALL MANUFACTURERS AND SUPPLIERS PRIOR TO INSTALLATION.
14.	U.N.O. ALL FLOORING TRANSITIONS TO BEGIN AT CENTER LINE UNDER DOOR. REFER TO TRANSITION
	DETAILS FOR ALL FLOORING CHANGES.
15.	U.N.O. ALL RESILIENT BASE TO BE RESILIENT BASE RB-1.
16.	U.N.O. ALL WALLCOVERING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. AFTER HANGING
	LENGTHS OF THE WALLCOVERING MATERIAL, CHECK FOR ANY DEFECTS. IF THERE IS A PROBLEM
	CONTACT YOUR SUPPLIER IMMEDIATELY, IF THE PROBLEM CAN NOT BE RESOLVED IN A TIMELY MANNER,
	CONTACT THE ARCHITECT.
17.	PAINT ALL PLYWOOD TO MATCH NEW WALL FINISH TO WHICH IT IS ATTACHED.
18.	ALL LIGHT SWITCH AND OUTLET COVER PLATES TO BE WHITE.
<u>U.N.U.</u>	ALL PAINTED SURFACES TO RECEIVE THE FOLLOWING FINISHES:
	G.W.B. VERTICAL WALL SURFACES - EGGSHELL (SATIN)
	G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT

G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT HOLLOW METAL SURFACES - SEMI-GLOSS PAINTED WOOD SURFACES - SEMI-GLOSS CONCRETE MASONRY UNIT - EGGSHELL

THE CONTRACTOR IS TO MAINTAIN ON SITE A COPY OF THE APPLICABLE EDITION OF THE UL FIRE RESISTANCE DIRECTORY AND OTHER FIRE RESISTIVE STANDARDS REFERENCED IN THE CONTRACT

- INDICATED OTHERWISE. WHERE CUTTING, FASTENING, ANCHORAGE OR CONNECTION CONDITIONS RESULT IN BREAKS IN THE GALVANIZING COATING, RESTORE COATING OR APPLY ADDITIONAL COMPATIBLE
- SHEET METAL FLASHING SHALL BE OF APPROPRIATE THICKNESS AND SIZES, AND DETAILED, CONFIGURED AND INSTALLED SO AS TO ALLOW FOR ACCEPTABLE THERMAL MOVEMENTS WITHOUT VISIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEM'S ABILITY TO PERFORM AS REQUIRED BY
- THE LIVE LOADS FOR WHICH EACH FLOOR OR PART THEREOF OF A COMMERCIAL OR INDUSTRIAL BUILDING IS OR HAS BEEN DESIGNED SHALL HAVE SUCH DESIGNED LIVE LOADS CONSPICUOUSLY POSTED BY THE OWNER IN THAT PART OF EACH STORY IN WHICH THEY APPLY, USING DURABLE METAL SIGNS, AND IT SHALL BE UNLAWFUL TO REMOVE OR DEFACE SUCH NOTICES. THE OCCUPANT OF THE BUILDING SHALL BE PARTITIONS SHALL BE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE
- ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROVED BY U.L. OTHER RECOGNIZED
- "ELECTRICAL ROOM" AND ANY OTHER INTERIOR SIGNAGE REQUIRED BY CODE SHALL BE PROVIDED BY ALL EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN ACCESSIBLE MEANS OF EGRESS, SHALL PROVIDE SIGNS INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS. SIGNS
- IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3
- INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: (1) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. (2) OTHER DOORS. (A) INTERIOR HINGED DOORS: 5 IBF (22.2N) (B) SLIDING OR FOLDING
- DOORS: 5 IBF (22.2N) THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION TACTILE SIGNAGE SHALL BE LOCATED ON THE WALL ADJACENT TO THE DOOR'S SIDE AND AT A HEIGHT OF 60 INCHES ABOVE THE FLOOR. SIGNS MAY BE LATCH PLACED ON THE NEAREST ADJACENT WALL WHEN
- EACH GLAZING UNIT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. GLAZING LOCATED WITHIN 24" OF A DOOR AND LESS THAN 60" ABOVE WALKING SURFACE SHALL
- ACCESSIBLE TOILET FACILITIES SHALL BE IDENTIFIED WITH A SIGN, PROVIDED BY OWNER AND INSTALLED
- ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NO MORE THAN 1/2 INCH
- COORDINATE QUANTITY AND LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS CONNECTIONS REQUIRED FOR ALL EQUIPMENT. REFER TO EQUIPMENT LEGEND FOR ADDITIONAL ELECTRICAL AND COMMUNICATIONS REQUIREMENTS AT EQUIPMENT LOCATIONS.
- REFER TO PLUMBING FIXTURE & ACCESSORIES LEGEND FOR ADDITIONAL INFORMATION ON PLUMBING
- REFER TO FURNITURE/ELECTRICAL/COMMUNICATIONS REFERENCE DRAWINGS FOR ADDITIONAL ELECTRICAL, COMMUNICATIONS, AUDIOVISUAL, SECURITY, AND FURNITURE INFORMATION.
- G.C. TO REVIEW AND COORDINATE ALL DESIGN/BUILD COMPONENTS WITH ARCHITECT, INCLUDING BUT

### **GENERAL NOTES: MILLWORK**

LOCATIONS

- 1. MILLWORK CONSTRUCTION TO COMPLY WITH LATEST EDITION OF A.W.I. STANDARDS, CUSTOM REFER TO INTERIOR ELEVATIONS FOR OVERALL MILLWORK DIMENSIONS.
- REFER TO INTERIOR ELEVATIONS AND MILLWORK SECTIONS FOR FINISH INFORMATION.
- U.N.O., ALL SOLID SURFACE COUNTERTOP EDGE PROFILES TO BE EASED, ALL PLAM COUNTERTOP EDGE PROFILES TO BE SQUARE
- ALL MILLWORK CABINETRY DOORS AND DRAWERS TO BE FLUSH OVERLAY CONSTRUCTION. EACH CABINETRY DOOR TO RECEIVE TWO (2) FULLY CONCEALED SNAP-ON HINGES. INSTALL 4" WIRE PULLS VERTICALLY AT ALL CABINETRY DOORS AND HORIZONTALLY AT
- DRAWERS. REFER TO TYPICAL PULL MOUNTING DETAIL FOR LOCATION. U.N.O. ALL CABINETS HARDWARE PULLS HW-1
- INSTALL CONTINUOUS SPLASH WHERE COUNTERTOP TERMINATES AT PARTITION AT ALL SIDES AND BACK. U.N.O. ALL MILLWORK BACKSPLASHES TO BE 4" TALL
- U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH CABINETRY OF FACE LAMINATE. U.N.O. ALL MILLWORK INTERIORS TO BE BLACK MELAMINE ALL CABINETRY CORE MATERIAL TO BE LOW-V.O.C. EMITTING M.D.F. PARTICLE BOARD WILL NOT 13
- BE ACCEPTED. PROVIDE BLOCKING AS REQUIRED IN PARTITION TO SECURE MILLWORK.
- EXTEND FINISH FLOOR UNDER ALL BASE CABINETRY AND COUNTERTOPS 16 NO GLUE UP WOOD BASE TOLERATED.
- 17. VERIFY ACTUAL DIMENSIONS OF ALL APPLIANCES AND EQUIPMENT INDICATED ON PLANS,
- ELEVATIONS, AND SECTIONS BEFORE FABRICATION. COORDINATE ALL POWER AND COMMUNICATIONS REQUIREMENTS AND LOCATIONS FOR
- EQUIPMENT AND APPLIANCES WITH SUBCONTRACTORS PROVIDE PLASTIC SCREW CAPS IN COLOR TO MATCH ADJACENT FINISH AT ALL FASTENER HEAD

### GENERAL NOTES: REFLECTED CEILING PLAN

- REVIEW CEILING LAYOUT AS SHOWN AND NOTIFY ARCHITECT OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PIPEWORK, FIRE PROTECTION SYSTEMS, ETC. BEFORE PROCEEDING WITH CONSTRUCTION.
- U.N.O. ALL NEW SUSPENDED ACOUSTICAL CEILING GRID AND TILE SYSTEMS ON PLAN TO BE ACT-1. CENTER GRID WITHIN EACH ROOM OR REFERENCE GRID STARTING POINT ON PLAN. REFER TO FINISH LEGEND FOR SPECIFICATION
- INSTALL NEW CEILINGS TO COMPLY WITH ALL SEISMIC RESTRAINT REQUIREMENTS IN ACCORDANCE WITH ALL LOCAL BUILDING CODES. REFER TO SEISMIC INFORMATION ON SHEET A-001
- U.N.O. LIGHTING LOCATIONS TAKE PRECEDENCE OVER ALL OTHER CEILING ELEMENTS. MECHANICAL, PLUMBING, AND FIRE PROTECTION WORK MUST ACCOMMODATE LOCATIONS AND CLEARANCES FOR ALL NEW AND EXISTING LIGHT FIXTURES. G.C. IS RESPONSIBLE TO COORDINATE WITH ALL TRADES.
- U.N.O. LOCATE DOWNLIGHTS AND WALL WASHERS IN CENTER OF CEILING TILE. IF CONFLICT OCCURS, NOTIFY ARCHITECT PRIOR TO PROCEEDING
- CONTRACTOR TO VERIFY EXACT LOCATION OF ALL RECESSED DOWNLIGHTING IN G.W.B. 6.
- CEILINGS. COORDINATE WITH ARCHITECT BEFORE PROCEEDING WITH THE WORK. REFER TO LIGHT FIXTURE LEGEND FOR LIGHT FIXTURE SPECIFICATION AND ADDITIONAL
- INFORMATION. U.N.O. INSTALL LINEAR DIFFUSERS IN ALL G.W.B. AND 2x2 DIFFUSERS A.C.T. CEILINGS. DIFFUSER
- COLOR TO MATCH CEILING FINISH, OR DUCT FINISH WHERE EXPOSED U.N.O. ALL SPRINKLER HEADS IN G.W.B. AND A.C.T. CEILINGS TO BE FULLY RECESSED TYPE.
- CENTER ALL SPRINKLER HEADS WITHIN 3" OF CENTER OF A.C.T. REFER TO ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL-MOUNTED LIGHT
- FIXTURES 11. COORDINATE AND VERIFY LOCATION OF LIGHT SWITCHES, THERMOSTATS, FIRE ALARMS, ETC. WITH ARCHITECT BEFORE INSTALLATION.
- REFER TO ELECTRICAL DRAWINGS FOR DEVICE LOCATION DIAGRAM.
- ALL EXPOSED CEILING EDGES TO BE FINISHED. U.N.O. ALL G.W.B. CEILINGS IN RESTROOMS, SHOWER ROOMS AND OTHER WET LOCATIONS TO BE 14. MOISTURE RESISTANT
- 15. ELECTRICAL CONTRACTOR TO COORDINATE SWITCHING AND DIMMING REQUIREMENTS AND LOCATIONS WITH ARCHITECT U.N.O. LIGHTING IN EACH ROOM TO BE SWITCHED FROM ONE LOCATION WITHIN THAT ROOM.
- U.N.O. ALL LIGHT FIXTURE TYPES WITHIN EACH ROOM OR OPEN OFFICE AREA TO BE SWITCHED SEPARATELY. GANG ALL SWITCHES IN EACH ROOM UNDER A SINGLE COVERPLATE U.N.O. POWER OUTLETS, COMMUNICATIONS RECEPTACLES, COVER PLATES, DEVICES, ETC. TO BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMM SYMBOLS AND
- ADDITIONAL INFORMATION. IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEMENTS INCLUDING LIGHTING, MECHANICAL DIFFUSERS, RETURN AIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS,
- EXIT SIGNS, AUDIOVISUAL EQUIPMENT, SECURITY DEVICES, ETC. WITH ARCHITECT BEFORE INSTALLATION. NOTIFY ARCHITECT OF ANY REQUIREMENTS FOR ACCESS PANELS NOT SHOWN ON DOCUMENTS
- BEFORE PROCEEDING WITH CONSTRUCTION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY AND LOCATION OF EXIT
- LIGHTING. EXIT LIGHTING IS SHOWN IN PLANS ONLY TO IDENTIFY PATHS OF EGRESS. 22. ALL EXPOSED DUCTWORK TO BE RIGID SPIRAL METAL DUCTWORK.



ALL SUSPENDED CEILING SYSTEMS ARE TO BE INSTALLED PER IBC SECTION 1621 REQUIREMENTS, CISCA GUIDELINES FOR SEISMIC ZONES 3 & 4, AND ASCE SECTION 7 REQUIREMENTS.

BASIC CONNECTIONS, PERIMETER, AND LATERAL SPLAY BRACING: SUSPENDED CEILINGS GREATER THAN 144 S.F. SHALL BE BRACED IN ACCORDANCE WITH THE

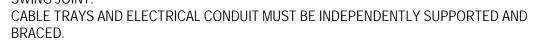
- FOLLOWING: MINIMUM INTERSECTION STRENGTH LIMITS @ MAIN TEE/CROSS TEE IS 180 LBS.
- PROVIDE MIN. 12-GAUGE VERTICAL HANGER WIRE AT 4'-0" O.C. MIN. CONNECTION DEVICE FROM VERTICAL WIRE TO STRUCTURE ABOVE MUST SUSTAIN MIN. 100
- MAIN TEE CLASSIFICATION TO BE HEAVY DUTY. 1 IN 6 MAX. PLUMB OF VERTICAL HANGER WIRES REQUIRED.
- PROVIDE PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM WALL
- MINIMUM CLEARANCE FROM GRID END TO WALL IS 3/4". PERIMETER CLOSURE (MOLDING) WIDTH MIN. 2"
- PROVIDE GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS.
- TIE PERIMETER TEE ENDS TOGETHER. PROVIDE HORIZONTAL RESTRAINT (SPLAY WIRES OR RIGID BRACING) WITHIN 2" OF
- INTERSECTION AND SPLAYED 90 DEGREES APART AT 45 DEGREE ANGLES. 12. PROVIDE COMPRESSION POSTS (STRUTS) AT 12" O.C. IN BOTH DIRECTIONS, STARTING 6'
- FROM WALL
- 13. SPLAY BRACING CONNECTION STRENGTH TO BE MIN. 200 LBS. OR THE DESIGN LOAD, WHICHEVER IS GREATER.
- PARTITIONS ARE TO BE BRACED INDEPENDENT OF CEILING SPLAY BRACING
- IN ADDITION TO REQUIREMENTS NOTED ABOVE, FOR SUSPENDED CEILINGS GREATER THAN 2500 S.F. PROVIDE A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION DIVIDING CEILINGS INTO AREAS LESS THAN 2,500 S.F.
- 16. PROVIDE RIGID BRACING FOR CEILING PLANE ELEVATION CHANGES.
- LIGHT FIXTURE ATTACHMENT MECHANICALLY ATTACH ALL LIGHT FIXTURES TO CEILING GRID. ATTACHMENTS MUST SUPPORT 100% OF LIGHT FIXTURE WEIGHT
- SURFACE-MOUNTED FIXTURES DO NOT REQUIRE ATTACHMENT TO GRID. SUPPORT PENDANT-HUNG FIXTURES DIRECTLY FROM STRUCTURE WITH 9-GAUGE WIRE OR APPROVED ALTERNATE.
- FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING LESS THAN 10 LBS PROVIDE (1) WIRE TO STRUCTURE (MAY BE SLACK). FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING FROM 10 TO 56 POUNDS PROVIDE (2) VERTICAL SUPPORT WIRES (MUST BE SLACK). FOR LIGHT FIXTURES GREATER THAN 56 POUNDS PROVIDE DIRECT AND INDEPENDENT SUPPOR FROM THE BUILDING STRUCTURE.

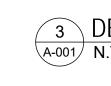
### LIGHT FIXTURE SUPPLEMENTARY HANGER WIRES

PROVIDE INTERMEDIATE DUTY MAIN TEES WITH CROSS TEE RATING BELOW 16 LBS/LF. PROVIDE HEAVY DUTY MAIN TEES WITH CROSS TEE RATING BELOW 16 LBS/LF. ATTACH MIN. 12-GAUGE HANGER WIRES TO THE SUPPORTING CROSS TEE WITHIN (3) THREE INCHES OF THE CORNER OF EACH LIGHT FIXTURE.

### SERVICE APPLICATIONS:

- ALL MECHANICAL AIR TERMINALS MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. FOR TERMINALS WEIGHING FROM 20 TO 56 POUNDS PROVIDE (2) VERTICAL SUPPORT WIRES (MAY BE SLACK.) FOR TERMINALS WEIGHING GREATER THAN 56 POUNDS PROVIDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE. SPRINKLER HEADS AND OTHER PENETRATIONS REQUIRE A MIN. 2" DIAMETER OPENING OR A
- SWING JOINT. CABLE TRAYS AND ELECTRICAL CONDUIT MUST BE INDEPENDENTLY SUPPORTED AND





CIFIED COLOR AND FINISH FOR REVIEW. SUPPLY A MINIMUM OF FIVE
ENERAL CONTRACTOR, SUB-CONTRACTOR, FIELD COPY, AND CLIENT
), AND DETAILS TO VERIFY FINISHES. REFER TO ELEVATIONS FOR
NHERE MULTIPLE FINISHES ARE INDICATED ON PLAN FOR THE SAME
OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS.

- NCIES BEFORE ORDERING MATERIALS. N TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND
- O MEET OR EXCEED CLASS II FLAME SPREAD, 26 75 AND SMOKE ) AND ALL OTHER APPLICABLE CODES. CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723
- ESS. SMOKE DEVELOPED 400 OR LESS. RD CLASSIFICATION (ASTM-E-84) FLAME SPREAD 5, FUEL TOR 5
- NTED PT-3. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL RECEIVE PAINT PT-5. REFER TO DOOR SCHEDULE FOR ADDITIONAL
- CEIVE A MINIMUM OF ONE (1) PRIMER COAT AND THEN TWO (2) FINISH MANUFACTURER'S SPECIFICATIONS.
- TES TO BE GLASS GL-2. ACCEPT NEW FLOORING, MAINTAINING REQUIRED FLOOR ASSEMBLY
- JS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH. TURER'S RECOMMENDATIONS AND ACCEPTED INDUSTRY ED TO MOISTURE TESTING, FLOOR PREPARATION, INSTALLATION H ALL MANUFACTURERS AND SUPPLIERS PRIOR TO INSTALLATION. D BEGIN AT CENTER LINE UNDER DOOR. REFER TO TRANSITION
- ILIENT BASE RB-1.
- NSTALLED PER MANUFACTURER'S INSTRUCTIONS. AFTER HANGING 3 FERIAL, CHECK FOR ANY DEFECTS. IF THERE IS A PROBLEM LY, IF THE PROBLEM CAN NOT BE RESOLVED IN A TIMELY MANNER,

### NALL FINISH TO WHICH IT IS ATTACHED. PLATES TO BE WHITE.

- E FOLLOWING FINISHES:
- GSHELL (SATIN)

STEEL STUD POST

DECK ABOVE

CROSS TEE

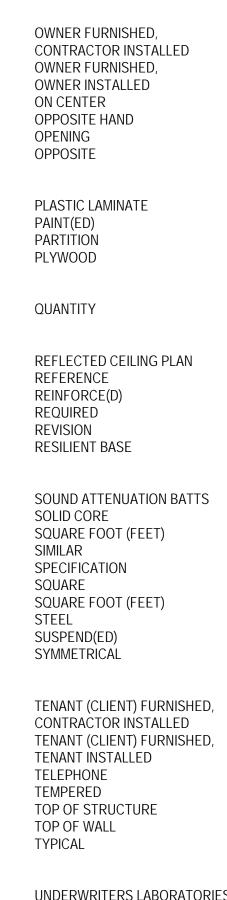
\A-001/ N.T.S.

### ABBREVIATIONS LEGEND:

<b>A</b> AFF	ABOVE FINISHED FLOOR	M MAX	MAXIMUM
ACT AHJ	ACOUSTICAL CEILING TILE AUTHORITY HAVING	MECH MEP	MECHANICAL MECHANICAL, ELECTRICAL, ANI
	JURISDICTION		PLUMBING
ALT ALUM	ALTERNATE ALUMINUM		ECHANICAL, ELECTRICAL, PLUMBING
APPROX	APPROXIMATE(LY)	MTL	METAL
ARCH	ARCHITECT(URAL)	MIN MISC	MINIMUM MISCELLANEOUS
В			WISOLLI WESSS
BLKG BLDG	BLOCKING BUILDING	N NIC	NOT IN CONTRACT
BD	BOARD	NTS	NOT TO SCALE
С		0	
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
С	CENTERLINE	OFOI	OWNER FURNISHED,
CLG		00	OWNER INSTALLED
CT CLR	CERAMIC TILE CLEAR	OC OH	ON CENTER OPPOSITE HAND
CONC	CONCRETE	OPG	OPENING
CONT CJ	CONTINUE, CONTINUOUS CONTROL JOINT	OPP	OPPOSITE
CORR	CORRIDOR	Р	
-		PLAM	PLASTIC LAMINATE
<b>D</b> DIA	DIAMETER	PT PTN	PAINT(ED) PARTITION
DIM	DIMENSION(S)	PWD	PLYWOOD
E		Q	
EA	EACH	QTY	QUANTITY
ELEC ELEV	ELECTRIC(AL) ELEVATION	R	
EQ	EQUAL	RCP	REFLECTED CEILING PLAN
EQUIP	EQUIPMENT	REF	REFERENCE
EXP EJ	EXPANSION EXPANSION JOINT	REINF REQ	REINFORCE(D) REQUIRED
EXIST	EXISTING	REV	REVISION
EXT	EXTERIOR	RB	RESILIENT BASE
F FIN	FINISH(ED)	<b>S</b> SAB	SOUND ATTENUATION BATTS
	IISHED FLOOR	SC	SOLID CORE
FE	FIRE EXTINGUISHER	SF	SQUARE FOOT (FEET)
FEC CA	FIRE EXTINGUISHER BINET	SIM SPEC	SIMILAR SPECIFICATION
FLR	FLOOR	SQ	SQUARE
FD		SQ FT	SQUARE FOOT (FEET)
FLUOR FLU FRT	UORESCENT FIRE-RETARDANT TREATED	STL SUSP	STEEL SUSPEND(ED)
G		SYM	SYMMETRÌCÁL
GA	GAUGE	Т	
GC GYP BD GY	GENERAL CONTRACTOR PSUM BOARD	TFCI	TENANT (CLIENT) FURNISHED, CONTRACTOR INSTALLED
		TFTI	TENANT (CLIENT) FURNISHED,
H HCP	HANDICAPPED	TEL	TENANT INSTALLED TELEPHONE
HDW	HARDWARE	TEMP	TEMPERED
HT HC	HEIGHT HOLLOW CORE	TOS TOW	TOP OF STRUCTURE TOP OF WALL
HM	HOLLOW METAL	TYP	TYPICAL
HOR	HORIZONTAL		
HR HVAC	HOUR HEATING, VENTILATION,	U UL	UNDERWRITERS LABORATORIE
	AND AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
I		V	
INCL INSUL	INCLUDE(D) INSULATION	VERT	VERTICAL
INSUL	INTERIOR	W	
_		WC	WALL COVERING
<b>j</b> JT	JOINT	W/ W/O	WITH WITHOUT
JI	JUINT	WV/O	WITTIOUT

### ARCHITECTURAL SYMBOLS LEGEND

	NEW PARTITION
	NEW WINDOW FRAMING SYSTEM TO REMAIN
	NEW OR RELOCATED DOOR, FRAME, AND HARDWARE
FEC	FIRE EXTINGUISHER IN SEMI-RECESSED CABINET



UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE VERTICAL WALL COVERING WITH WITHOUT

### EQUIPMENT LEGEND:

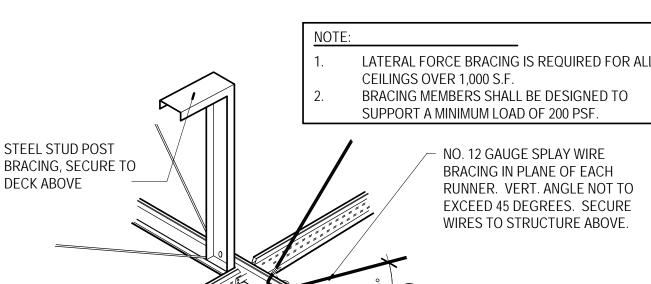
MW

REF

L \_\_ \_\_

(I.B.C - SEISMIC CATEGORY D.E.F)

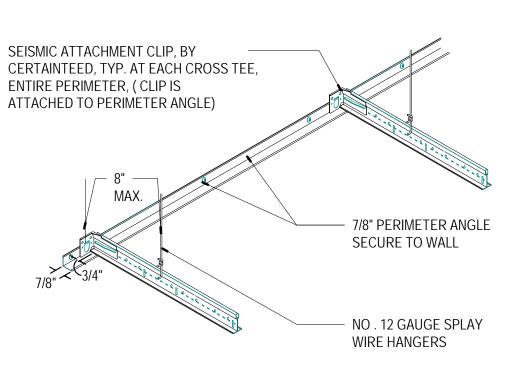
- VENDING (O.F.O.I.): \_ \_ \_ \_ \_ VEND REQUIREMENTS. \_ \_ \_ \_
  - REFRIGERATOR (O.F.O.I.): PROVIDE REQUIRED ELECTRICAL. COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL



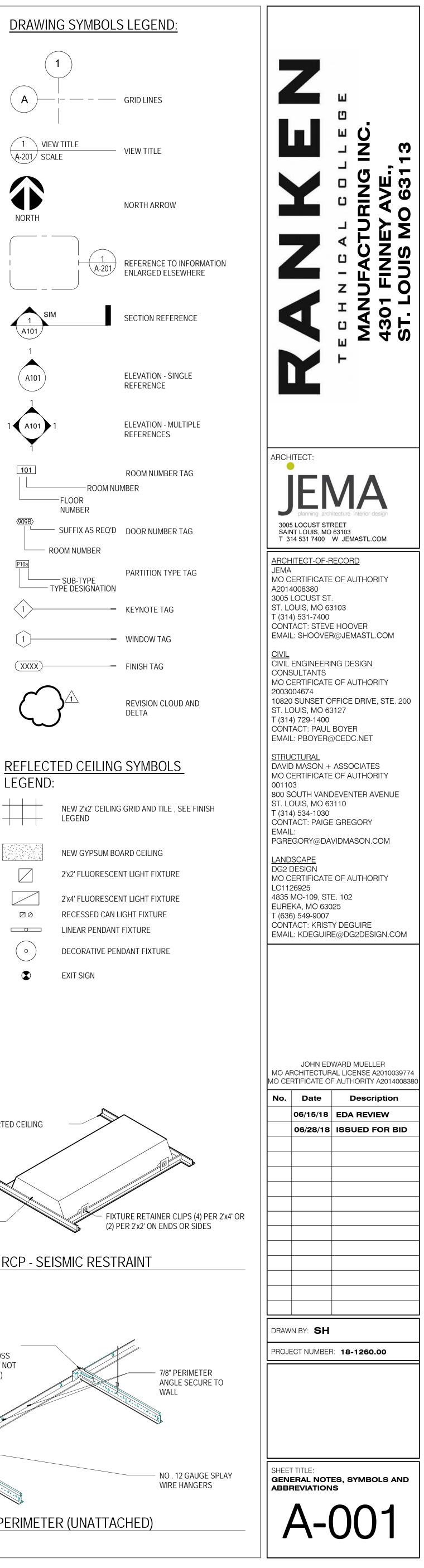
1 DETAIL - RCP - LATERAL BRACING

SUSPENSION CEILING

GRID SYSTEM - MAIN TEE



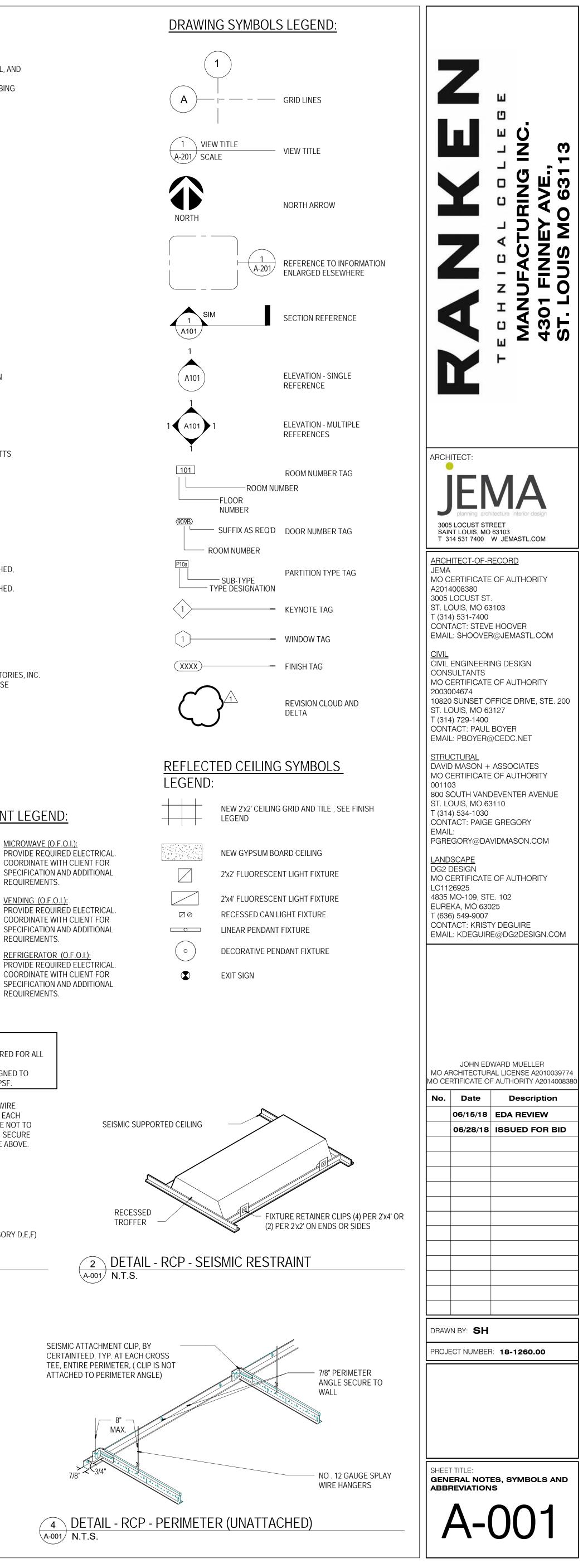
3 DETAIL - RCP - PERIMETER (ATTACHED)



GEND:	
	NEW 2'x2' CEILIN LEGEND
	NEW GYPSUM B
	2'x2' FLUORESC
	2'x4' FLUORESC
$\square \oslash$	RECESSED CAN
	LINEAR PENDAN
0	DECORATIVE PE
	EXIT SIGN

RECESSED TROFFER

\_A-001/ N.T.S.



		<u>1.5</u> COMN 1.	TELECOMMUNICATIONS AND DAT //UNICATIONS DESIGN/BUILD WORK S MEET WITH CLIENT TO ESTABLISH
<u>i.i G</u> E 1.	<u>INERAL NOTES:</u> INCLUDE IN BASE BID ALL SERVICES, INCLUDING DESIGN, MATERIALS, INSTALLATION, COORDINATION, PERMITS, AND INSPECTIONS FOR ALL DESIGN/BUILD SERVICES LISTED OR REFERENCED IN THIS	1. 2. 3.	CLIENT TO PROVIDE WRITTEN SC DESIGN AND PROVIDE A TELECON
2.	SECTION. REVIEW AND COORDINATE ALL DESIGN/BUILD COMPONENTS WITH ARCHITECT, INCLUDING BUT NOT		INCLUDING CABLING AND SERVIC ADDITIONAL INFORMATION.
3.	LIMITED TO QUANTITIES, TYPES, AND LOCATIONS OF ALL ELEMENTS. SUBMITTAL OF DESIGN/BUILD DOCUMENTS AS LISTED BELOW IS REQUIRED. G.C. TO OBTAIN	4. 5.	OBTAIN PERMITS AND INSPECTIO FIELD VERIFY EXISTING CONDITIO
	DOCUMENTS FROM SUBCONTRACTORS FOR CLIENT AND ARCHITECT REVIEW WITHIN (3) THREE WEEKS OF AWARD OF THIS CONTRACT. SUBMITTALS ARE REQUIRED TO ALLOW CLIENT AND ARCHITECT TO	6.	INSTALLING SYSTEM OR FIXTURE PRIOR TO COMMENCEMENT OF C COORDINATE COMMUNICATION L
	PROVIDE FEEDBACK ON DESIGN SOLUTIONS PRIOR TO PROCUREMENT AND CONSTRUCTION. NO EXCEPTIONS WILL BE MADE FOR UNSUBMITTED DOCUMENTS, AND ANY WORK PERFORMED WITHOUT APPROVAL BY SUBMITTAL PROCESS WILL BE CORRECTED BY THE G.C. OR SUBCONTRACTOR AT NO	0.	CABLING CONTRACTOR TO PROV REQUIREMENTS. CABLING CONT
1.	EXPENSE TO THE CLIENT. REFER TO DOCUMENTS FOR ADDITIONAL INFORMATION.	7.	SUPPLIER. UNLESS NOTED OTHERWISE ALL
	ATING, VENTILATION AND AIR CONDITIONING WORK ("HVAC" OR "MECHANICAL"):	8.	WHERE A/V CABLING LOCATIONS TERMINATION BOXES BETWEEN.
HVAC 1.	DESIGN/BUILD WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: MEET WITH CLIENT TO ESTABLISH CLIENT'S REQUIREMENTS.	9.	COMMUNICATIONS SUBCONTRAC AND TERMINATIONS LABELED.
2. 3.	COMPUTE COOLING AND HEATING LOADS FOR THE PROJECT. VERIFY PROPOSED MECHANICAL ZONES AND FINALIZE ZONING WITH CLIENT.	10.	PROVIDE A SEPARATE DEDICATE TERMINATION(S) FOR EACH PRINT COORDINATE WITH CLIENT.
1.	DESIGN HVAC DISTRIBUTION AND CONTROL SYSTEM TO PROVIDE ADEQUATE COOLING AND HEATING IN ACCORDANCE WITH ASHRAE STANDARDS. EQUIPMENT, AIR DISTRIBUTION, ETC. SHALL BE CAREFULLY	11.	WHERE DISCREPANCIES OCCUR I AND/OR DESIGN/BUILD ENGINEER
ō.	DESIGNED FOR NOISE ISOLATION. PROVIDE THERMOSTAT LOCATION PLAN TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FINISH TO WHITE IN COLOR.	12.	THE WORK FOR CLARIFICATION. REFER TO DOCUMENTS FOR ADD
5. 7.	COORDINATE DESIGN WITH OTHER DESIGN/BUILD DISCIPLINES INVOLVED IN PROJECT. SUBMIT HVAC DESIGN DOCUMENTS PREPARED BY A LICENSED MECHANICAL ENGINEER, INCLUDING	13.	PROVIDE ELECTRONIC AS-BUILT I
	COOLING AND HEATING LOAD COMPUTATIONS, DISTRIBUTION SYSTEM DRAWINGS SHOWING DUCT AND DIFFUSER LOCATIONS, FAN LOCATIONS AND SIZES, DEVICE AND EQUIPMENT SPECIFICATIONS AND	FIRE I	RE PROTECTION WORK: PROTECTION DESIGN/BUILD WORK S
	CATALOG DATA AND THERMOSTAT LOCATIONS TO CLIENT, GENERAL CONTRACTOR AND ARCHITECT FOR REVIEW PRIOR TO PROCUREMENT OR INSTALLATION.	1. 2.	MEET WITH CLIENT TO ESTABLISH DESIGN ALL SYSTEMS IN ACCORE
3. 9.	OBTAIN PERMITS AND INSPECTIONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION. INSTALL SYSTEM IN ACCORDANCE WITH DESIGN DOCUMENTS.	3.	LOCAL BUILDING AND FIRE SAFET COORDINATE WORK WITH EXISTII INSTALLATIONS. REVIEW LOCATION
10. 11.	BALANCE THE MECHANICAL SYSTEM. BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING TECHNICIAN. SUBMIT BALANCING REPORT TO OWNER. REFER TO DOCUMENTS FOR ADDITIONAL INFORMATION.	4.	SIGNS WITH CLIENT AND ARCHITE OBTAIN PERMITS AND INSPECTIO
1. 2.	PROVIDE ELECTRONIC AS-BUILT DRAWINGS TO ARCHITECT AND OWNER.	5.	INSTALL WORK, IN ACCORDANCE NECESSARY CODE INSPECTIONS
	<u>UMBING WORK:</u> BING DESIGN/BUILD WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:	6.	PROVIDE BUILDING STANDARD FI LOCATION PLAN TO ARCHITECT F
	PROVIDE AND INSTALL NEW FIXTURES AND ALL PLUMBING, AS REQUIRED. TIE ALL NEW PLUMBING, INCLUDING BUT NOT LIMITED TO HOT AND COLD WATER SUPPLY, ALL DRAINS,	7. 8.	REFER TO DOCUMENTS FOR ADD PROVIDE ELECTRONIC AS-BUILT I
	AND ALL VENTS, INTO EXISTING PLUMBING AT CORE. FIXTURE DESCRIPTIONS AND/OR MODEL NUMBERS GIVEN ARE FOR DESIGN, FINISH AND GENERAL		TERMINATIONS LABELED.
	IDENTIFICATION OF MAJOR ITEMS ONLY. DEVELOP ADDITIONAL DESIGN SPECIFICATIONS AND PRODUCT DATA FOR COMPLETE ASSEMBLIES AND SUBMIT TO ARCHITECT FOR APPROVAL. COORDINATE WITH THE GENERAL CONTRACTOR FOR PIPE CHASE REQUIREMENTS, FIXTURE BACKING		
	AND SUPPORT, ACCESS PANELS AND OTHER CONSTRUCTION REQUIREMENTS. COORDINATE WITH HVAC, FIRE PROTECTION AND ELECTRICAL DESIGN/BUILD SPECIFICATIONS AS REQUIRED.		
	SUBMIT DESIGN DOCUMENTS AND FIXTURE CATALOG CUTS FOR CLIENT AND ARCHITECT REVIEW. OBTAIN PERMITS AND INSPECTIONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.		
7. 3.	REFER TO DOCUMENTS FOR ADDITIONAL INFORMATION. PROVIDE ELECTRONIC AS-BUILT DRAWINGS TO ARCHITECT AND CLIENT.		
	ECTRICAL WORK:		
ELECT	RICAL DESIGN/BUILD WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: MEET WITH CLIENT TO ESTABLISH CLIENT'S REQUIREMENTS. ELECTRICAL CONTRACTOR TO VERIFY AND		
)	COORDINATE ALL ELECTRICAL AND COMMUNICATION REQUIREMENTS WITH CLIENT BEFORE INSTALLATION. ALL ELECTRICAL AND COMMUNICATION DEVICES ARE NEW. MOUNT DEVICES AT 18" A.F.F. UNLESS		
3.	OTHERWISE NOTED. REFER TO ELEC/COMM SYMBOLS ON SHEET E-101 FOR ADDITIONAL INFORMATION. ALL FIXTURES TO BE AS SPECIFIED ON DESIGN/BUILD DOCUMENTS. PREPARE COMPLETE DESIGN		
J.	SPECIFICATION AND SUBMIT TO ARCHITECT FOR REVIEW. PROVIDE REQUIRED LIFE SAFETY LIGHTING, INCLUDING BUT NOT LIMITED TO EMERGENCY EGRESS		
<u>.</u>	LIGHTING AND ILLUMINATED EXIT SIGNAGE, IN ACCORDANCE WITH ALL CODE REQUIREMENTS. PREPARE SWITCHING CONTROL DESIGN INCORPORATING ARCHITECT'S DESIGN AND SUBMIT TO		
).	ARCHITECT FOR REVIEW. PROVIDE JUNCTION BOX IN PARTITION WITH CONDUIT STUBBED OUT 6" ABOVE CEILING FOR ALL NEW		
	COMMUNICATIONS RECEPTACLES. ELECTRICAL CONTRACTOR TO COORDINATE LOCATION, SIZE, AND TYPE WITH TENANT, COMMUNICATION CONTRACTOR, AND FURNITURE MANUFACTURER BEFORE INSTALLATION.		
'. }.	PROVIDE DEVICES AND PLATES AS NOTED ON DOCUMENTS. WHERE SPECIFIC LAMPS ARE NOT SHOWN, PROVIDE LAMPS MOST SUITABLE FOR THE APPLICATION AND		
).	SUBMIT TO ARCHITECT FOR APPROVAL. AT PROJECT COMPLETION, CLEAN ALL LIGHT FIXTURES.		
10.	DESIGN A POWER SUPPLY SYSTEM INCORPORATING REQUIREMENTS SHOWN ON ARCHITECT'S DRAWINGS AND IN ACCORDANCE WITH ALL CODE REQUIREMENTS.		
1.	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH OTHER SYSTEMS - INCLUDING BUT NOT LIMITED TO HVAC, FIRE PROTECTION, PLUMBING, COMMUNICATIONS, AND SECURITY SYSTEMS. COORDINATE		
2. 3.	POWER AVAILABILITY, LOCATION, EXISTING RESTRICTIONS AND OTHER REQUIREMENTS WITH CLIENT. COORDINATE ALL BUILDING SECURITY REQUIREMENTS WITH CLIENT. DEVELOP COMPLETE ELECTRICAL DESIGN AND INSTALLATION DRAWINGS PREPARED BY A LICENSED		
<b>4</b> .	ELECTRICAL ENGINEER AND SUBMIT FOR ARCHITECT'S REVIEW. DESIGN AND INSTALL BUILDING FIRE ALARM SYSTEM COMPLIANT WITH ALL APPLICABLE CODE		
ч. 5.	REQUIREMENTS. COORDINATE REQUIREMENTS WITH BUILDING OWNER. PROVIDE BUILDING STANDARD FIRE STROBES THAT COMPLY WITH CODE REQUIREMENTS. PROVIDE		
16.	LOCATION PLAN TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. OBTAIN PERMITS AND INSPECTIONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.		
7.	FIELD VERIFY EXISTING CONDITIONS AND REVIEW WITH ARCHITECT PRIOR TO DESIGNING AND INSTALLING SYSTEM OR FIXTURES. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR		
18. 10	TO COMMENCEMENT OF CONSTRUCTION. INSTALL THE SYSTEM IN ACCORDANCE WITH THE DESIGN/BUILD DOCUMENTS. UPDATE PANEL LABELING TO REFLECT ALL MODIFICATIONS.		
19. 20.	UPDATE PANEL LABELING TO REFLECT ALL MODIFICATIONS. ALL SECURITY EQUIPMENT, WIRING, AND INSTALLATION TO BE PROVIDED UNDER SEPARATE CONTRACT WITH OWNER. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN BOXES AS NOTED ON POWER/COMM		
21.	SYMBOLS. REFER TO SHEET E-101 FOR ELEC/COMM SYMBOLS. UNLESS NOTED OTHERWISE ALL NEW OUTLETS, RECEPTACLES, AND COVERS TO MATCH EXISTING		
	BUILDING STANDARD STYLE AND COLOR. IN THE ABSENCE OF AN EXISTING BUILDING STANDARD, COLOR TO BE: WHITE.		
2. 3.	ALL DEDICATED OUTLETS TO BE LABELED AS SUCH ON THE COVERPLATE. WHERE ELECTRICAL OUTLETS AND DATA RECEPTACLES ARE INDICATED ON WALLS OR COLUMNS WITH		
	FURNITURE, MILLWORK, OR OTHER ITEMS, COORDINATE OUTLET HEIGHT WITH ARCHITECT AND TENANT.		
.4.	AT ALL ENCLOSED MILLWORK LOCATIONS, INSTALL ALL NEW ELECTRICAL OUTLETS AND COMMUNICATIONS RECEPTACLES ABOVE COUNTER U.N.O. REFER TO MILLWORK ELEVATIONS FOR ADDITIONAL OUTLET LOCATION INFORMATION		
25.	ADDITIONAL OUTLET LOCATION INFORMATION. PROVIDE REQUIRED POWER FOR SYSTEMS FURNITURE. COORDINATE WITH CLIENT, FURNITURE SYSTEM MANUFACTURER, AND INSTALLER BEFORE INSTALLATION.		
26.	SYSTEM MANUFACTURER, AND INSTALLER BEFORE INSTALLATION. COORDINATE POWER POLE AND JUNCTION BOX LOCATIONS WITH FURNITURE LAYOUT BEFORE INSTALLATION. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECT AND FURNITURE		
27.	SUPPLIER REGARDING FURNITURE CIRCUITING REQUIREMENTS. CONFIRM INSTALLATION LOCATIONS AND REQUIREMENTS FOR ALL NEW ELECTRICAL PANELS WITH		
28.	BUILDING OWNER. CONFIRM LOCATIONS WITH ARCHITECT BEFORE INSTALLATION. LABEL ALL NEW ELECTRICAL CIRCUITING AT PANEL, JUNCTION BOX(ES), AND ON COVER PLATE AT		
<u>2</u> 9.	TERMINATION. INSTALL LIGHT SWITCH AT EACH ROOM ENTRY DOOR OR OPENING . SEE DEVICE LOCATION DIAGRAM ON		
80.	SHEET A-903 FOR APPROPRIATE SWITCH LOCATION. EACH NUMBERED ROOM TO HAVE ITS OWN SEPARATE SWITCH, IF NOT ALREADY EXISTING.		
31.	COORDINATE WITH I.T. AND NETWORK DEPARTMENTS FOR EXACT NUMBER OF ELECTRICAL OUTLETS AND DATA/VOICE RECEPTACLES, AND SPECIFIC H.V.A.C. REQUIREMENTS AT I.D.F. ROOMS.		
32.	PROVIDE GENERAL CONVENIENCE OUTLETS EVERY 40' OF WALL SPACE OR AS REQUIRED BY CODE, WHICHEVER IS MORE STRINGENT. CONTRACTOR TO COORDINATE FINAL LOCATIONS WITH ARCHITECT.		
33.	REFER TO DOCUMENTS FOR ADDITIONAL INFORMATION. PROVIDE ELECTRONIC AS-BUILT DRAWINGS TO ARCHITECT AND CLIENT.		

### ATA COMMUNICATIONS WORK ("COMMUNICATIONS"): C SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: SH CLIENT'S REQUIREMENTS. COPE DOCUMENTS & SPECIFICATIONS.

MMUNICATIONS AND DATA COMMUNICATIONS NETWORK, CE TO BUILDING, AS REQUIRED BY CLIENT. REFER TO E-101 FOR

ONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION. IONS AND REVIEW WITH ARCHITECT PRIOR TO DESIGNING AND ES. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS CONSTRUCTION. LOCATIONS WITH FURNITURE LAYOUT BEFORE INSTALLATION.

VIDE AND COORDINATE NECESSARY CLIENT CABLING TRACTOR TO COORDINATE WITH ARCHITECT AND FURNITURE

CABLING IN SCOPE OF WORK TO BE CAT6E. VERIFY WITH CLIENT. ARE SPECIFIED, PROVIDE CONDUIT BETWEEN AND PULL LINE

CTOR TO PROVIDE AS-BUILT PLANS TO TENANT WITH ALL CABLING ED ELECTRICAL DUPLEX OUTLET AND REQUIRED CAT6E CABLING NTER, EACH FAX, AND EACH COPIER LOCATION SHOWN IN PLANS.

BETWEEN EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, RING DRAWINGS, CONSULT ARCHITECT BEFORE PROCEEDING WITH

DITIONAL REQUIREMENTS. DRAWINGS TO ARCHITECT AND OWNER.

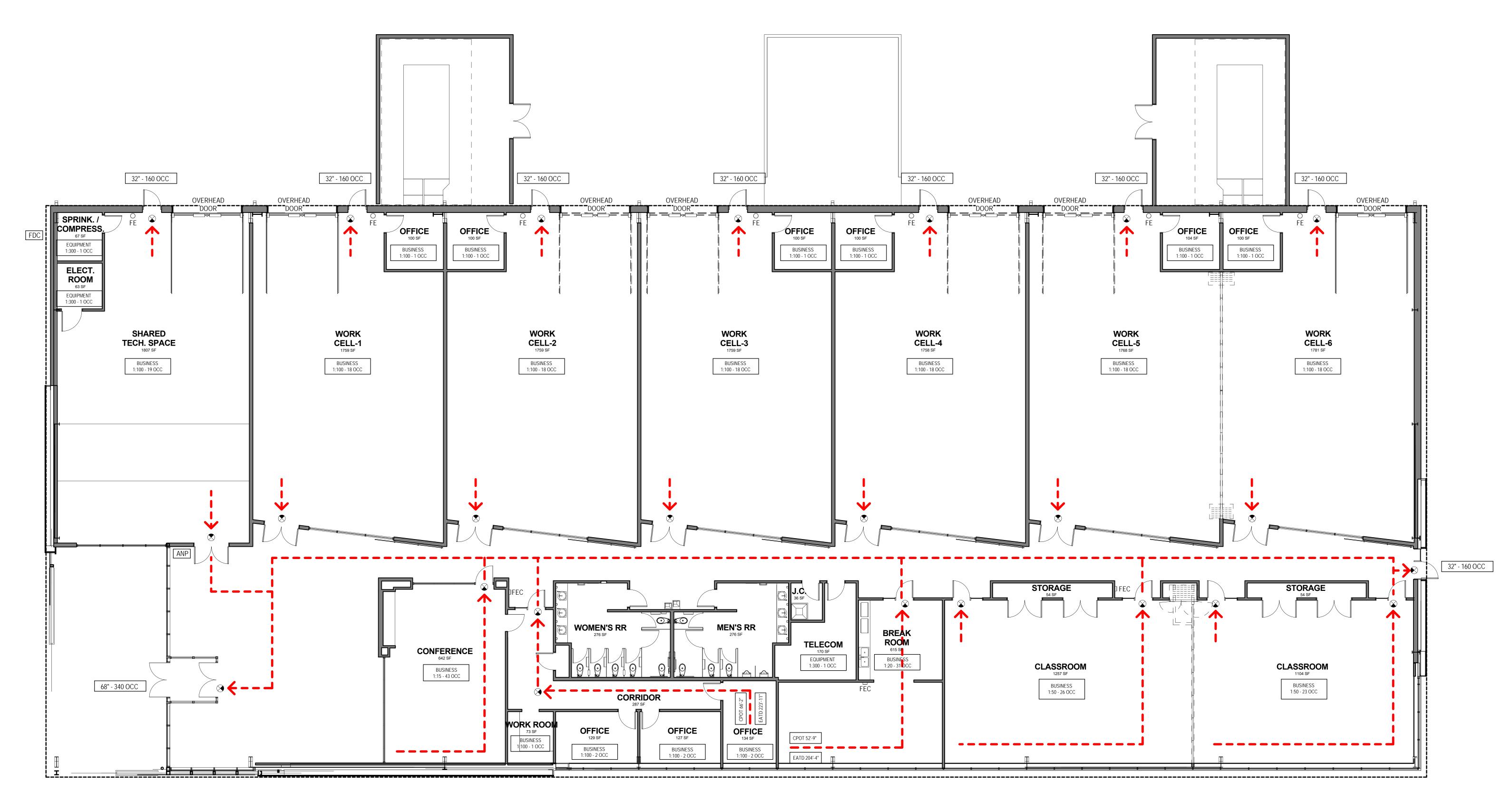
SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: SH CLIENT'S REQUIREMENTS. RDANCE WITH NFPA-LIFE SAFETY CODE AND IN ACCORDANCE WITH TY CODES AND REGULATIONS CURRENTLY IN FORCE. TING AND PROPOSED ARCHITECTURAL, HVAC AND ELECTRICAL FIONS AND DESIGN OF ACCESS PANELS, VALVES, CONTROLS AND

ONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION. E WITH DESIGN DOCUMENTS, TEST SYSTEM AND OBTAIN S & APPROVALS.

IRE STROBES TO COMPLY WITH CODE REQUIREMENTS. PROVIDE FOR REVIEW AND APPROVAL BEFORE INSTALLATION. DITIONAL REQUIREMENTS.

DRAWINGS TO ARCHITECT AND CLIENT WITH ALL CABLING AND

٥ шО Z () Шσ **>** (0) ר י **4**5 0 4 N ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTÁCT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: KK PROJECT NUMBER: 18-1260.00 SHEET TITLE: DESIGN / BUILD GENERAL NOTES A-002





### LIFE SAFETY LEGEND

ANP FDC 0 FEC

X:X - X OCC

- FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER ON HOOK SEMI-RECESSED FIRE
- EXTINGUISHER CABINET EGRESS PATH
- XOCC= AREA PER OCCUPANCY LOAD

FIRE ALARM ANNUNCIATOR PANEL

XX" - X OCC XX= CLEAR OPENING IN INCHES AND EGRESS CAPACITY

EATD EXIT ACCESS TRAVEL DISTANCE, MAX. X'-X" CONDITION/WORST CASE INDICATED

EXIT SIGN



### **CODE INFORMATION**

AUTHORITIES HAVING JURISDICTION: CITY OF ST.LOUIS, MISSOURI

BUILDING CODE: ACCESSIBILITY:

EXISTING BUILDING CODE: FIRE PREVENTION: MECHANICAL: ELECTRICAL: PLUMBING:

PROPERTY MAINTENANCE:

ENERGY: <u>GAS:</u>

ST.LOUIS FIRE PROTECTION DISTRICT

2009 ICC INTERNATIONAL BUILDING CODE WITH LOCAL AMEND AMERICANS WITH DISABILITIES ACT 2009 ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

2009 ICC INTERNATIONAL EXISTING BUILDING CODE WITH LOCA 2009 ICC INTERNATIONAL FIRE CODE WITH LOCAL AMENDMENT 2009 ICC INTERNATIONAL MECHANICAL CODE WITH LOCAL AME 2011 NFPA NATIONAL ELECTRIC CODE WITH LOCAL AMENDMEN 2009 ICC UNIFORM PLUMBING CODE WITH LOCAL AMENDMENT

2009 ICC INTERNATIONAL PROPERTY MAINTENANCE CODE WIT AMENDMENTS 2009 ICC INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS

2009 ICC INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS

### **BUILDING INFORMATION**

	USE GROUPS:		
	В	BUSINESS	
IDMENTS	<u>CONSTRUCTIO</u> TYPE IIB	<u>N TYPE:</u> FULLY SPRINKLERED	
CAL AMENDMENTS	<u>SEISMIC CATE(</u> D	<u>GORY:</u> REFER TO GEOTECHNICAL REPOR <sup>-</sup> GUIDELINES FOR REQUIREMENTS	F AND CISCA
NTS	<u>BUILDING AREA</u> AREA: HEIGHT:	<u>A AND HEIGHT:</u> 22,956 SF 1 STORY, 122'-1" TO HIGHEST EAVE	POINT
MENDMENTS			
ENTS	FLOOR:	OAD CALCULATIONS: ACTUAL GSF	DESIGN OCCUPANCY*:
ITS	FIRST FLOOR	22,956 SF	266 OCCUPANTS
/ITH LOCAL	* REFER TO LIF OCCUPANT LO	E SAFETY PLANS ON SHEET A-003 FO AD	OR INDIVIDUAL ROOM
		NS OF EGRESS:	

REFER TO LIFE SAFETY PLANS ON SHEET A-003

### DESIGN STANDARDS AND REQUIREMENTS

- 1. THE FOLLOWING DESIGN CRITERIA SHALL BE USED:
  - a. 1.15 WIND IMPORTANCE FACTOR (FOR CLADDING) b. GROUND ROUGHNESS "B"
  - c. ENCLOSED BUILDING CLASSIFICATION d. 90 MPH WIND SPEED
  - e. 20 PSF GROUND SNOW LOAD
  - f. 3.5 IN./HR. RAINFALL INTENSITY
- INSTALL SEISMIC GAS SHUTOFF VALVE (SGSV) ON ALL INCOMING FLAMMABLE GAS OR IGNITABLE LIQUID LINES.
- PROVIDE ADEQUATE RESTRAINT FOR EQUIPMENT USING FLAMMABLE GAS AND FREESTANDING ELECTRICAL CABINETS ON FLOORS OR EQUIPMENT PADS.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN RIGID PIPE CARRYING FLAMMABLE EQUIPMENT.
- ENSURE FIRE PROTECTION SYSTEMS MEET THE EARTHQUAKE PROTECTION REQ PROPERTY LOSS PREVENTION DATA SHEETS 2-8, EARTHQUAKE PROTECTION FOR PROTECTION SYSTEMS.
- ENSURE FIRE PROTECTION SYSTEMS MEET THE EARTHQUAKE PROTECTION REQ PROPERTY LOSS PREVENTION DATA SHEETS 3-26, FIRE PROTECTION WATER DEM SPRINKLERED PROPERTIES. THE FOLLOWING DESIGNS SHOULD BE USED.
  - a. HAZARD CATEGORY 1 (HC-1) AREAS SUCH AS CLASSROOMS, OFFICES, ASSOCIATED LIGHT HAZARD AREAS SHOULD BE DESIGNED TO PROVIDE FT. WITH MINIMUM K5.6 SPRINKLERS. THE DESIGN SHOULD INCLUDE A 250 ALLOWANCE.
  - b. HAZARD CATEGORY 2 (HC-2) AREAS, SUCH AS WORK CELLS, AND LARG ELECTRICAL ROOMS, SHOULD BE DESIGNED TO PROVIDE A 0.20 GPM/SQ. MINIMUM K8.0 SPRINKLERS. THE DESIGN SHOULD INCLUDE A 250 GPM HOS
- 7. TO MAINTAIN THE PROPER FIRE AND WIND UPLIFT PRESSURE RATINGS, THE PROF BE FM APPROVED AS WELL AS DESIGNED IN STRICT ACCORDANCE WITH MINIMUM FM GLOBAL CLASS 1-60 GUIDELINES AS SHOWN IN ROOFNAV AND THE LATEST ISSUES OF FM GLOBAL PROPERTY LOSS PREVENTION DATA SHEETS 1-28, WIND DESIGN, AND 1-29, ROOF DECK SECUREMENT AND ABOVE-DECK ROOF COMPONENTS.
- ALL MATERIALS USED IN THIS CONSTRUCTION SHOULD BE, IN ORDER OF PREFERENCE, NONCOMBUSTIBLE, FM 8. APPROVED OR CLASS 1. FM APPROVED PRODUCTS ARE ALL MARKED WITH THE "FM DIAMOND." THIS INCLUDES BUT IS NOT LIMITED TO DUCTS, PIPES, PLASTIC CONSTRUCTION MATERIALS AND INSULATIONS. THE APPROVAL GUIDE, A PUBLICATION OF FM APPROVALS, MAY BE REFERENCED AT www.approvalguide.com.

### **PLUMBING FIXTURE CALCULATIONS**

PER CITY OF ST. LOUIS ORDINANCE #69255, TABLE 4-1: MINIMUM PLUMBING FACILITIES

MINIMUM PLUMBING FIXTURE CALCULATIONS

OCC. TYPE	QTY.	W.C. RAT	10	#REQUIRED	# PROVIDED
MALE	133	1:50		3	4
FEMALE	133	1:25		6	6
		URINAL R	ATIO	#REQUIRED	<b>#PROVIDED</b>
MALE	133	1:100		2	2
		LAV. RAT	10	#REQUIRED	<b>#PROVIDED</b>
MALE	133	1/2(WC+L	IRIN.)	3	3
FEMALE	133	1/2(WC)		3	3
DRINKING FO	UNTAIN:	RATIO	QTY.	#REQUIRED	#PROVIDED

	DRINKING FOUNTAIN. RATIO QTT.			
E MATERIAL AND POINT-OF-USE	1:150 266	2	2	-
QUIREMENTS IN FM GLOBAL				
	ALLOWABLE HEIGHT AND AREA:			
OR WATER-BASED FIRE	USE GROUP B IS MOST RESTRICTIVE			-
	TABLE 503: ALLOWABLE BUILDING HEIGHT	'S AND AREAS: 3 S	ORIES AND 23,000 SF	-
	506.3 AUTOMATIC SPRINKLER INCREASE:	300% FOR ONE ST	ORY ABOVE GRADE PLANE	
QUIREMENTS IN FM GLOBAL	MODIFIED ALLOWABLE AREA IS 23,000SF -	+ (3 X 23,000) = 92,0	00 SF	
EMAND FOR NON STORAGE				-
	TABLE 601 FIRE-RESISTANCE RATING REC	UIREMENTS FOR F	NUILDING ELEMENTS (HOURS)	-
	BUILDING ELEMENT		TING (HOURS)	-
S, RESTROOMS, AND OTHER	STRUCTURAL FRAME, COLUMNS, GIRDER		0	
E A 0.10 GPM/SQ. FT. OVER 1,500 SQ.		3 & TRU35L5	0	
	BEARING WALLS - EXTERIOR / INTERIOR		0	-
50 GPM HOSE STREAM	NON-BEARING WALLS & PARTITIONS -INTE		0	-
	FLOOR CONSTRUCTION INCLUDING BEAN	IS & JOIST	0	
	ROOF CONSTRUCTION INCLUDING BEAMS	S & JOIST	0	
GE MECHANICAL ROOMS AND				-
2. FT. OVER 2,500 SQ. FT. WITH	1015.1 MINIMUM REQUIRED EGRESS WIDT	Н		-
IOSE STREAM ALLOWANCE.	THE MEANS OF EGRESS WIDTH MUST BE		HE OCCUPANT LOAD AS CALCULATED I	MEANS OF
	EGRESS WIDTH IS DETERMINED BY DIVID			
OPOSED ROOF SYSTEMS SHOULD			STITULE REFERENCE COMPONENT BT THE	-
	APPROPRIATE FACTOR NOTED BELOW:			
JM FM GLOBAL CLASS 1-60	DOORS/AISLES - 0.20" PER OCCUPANT			

1016.1 EXIT ACCESS TRAVEL DISTANCE: FOR FULLY SPRINKLERED ASSEMBLY USE GROUP THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 300'

TABLE 1021.1 MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD: 1-500 OCCUPANTS: 2 REQUIRED

NUMBER OF EXITS PROVIDED: 2+

OCCUPANCY CALCULATIONS: TABLE 1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT OCCUPANCY TYPE FLOOR AREA PER OCCUPANT CALCULATED OCCUPANTS 300 SF ACCESSORY STORAGE AREAS **BUSINESS AREAS** 100 SF TOTAL DESIGN OCCUPANCY LOAD

CORRIDOR ELECT. ROOM WORK CELL-1 OFFICE WORK CELL-2 OFFICE WORK CELL-3 OFFICE WORK CELL-4 OFFICE WORK CELL-5 OFFICE WORK CELL-6 OFFICE WEST MECH. EAST MECH.

NUMBER

LOBBY

CORRIDOR

OFFICE

OFFICE

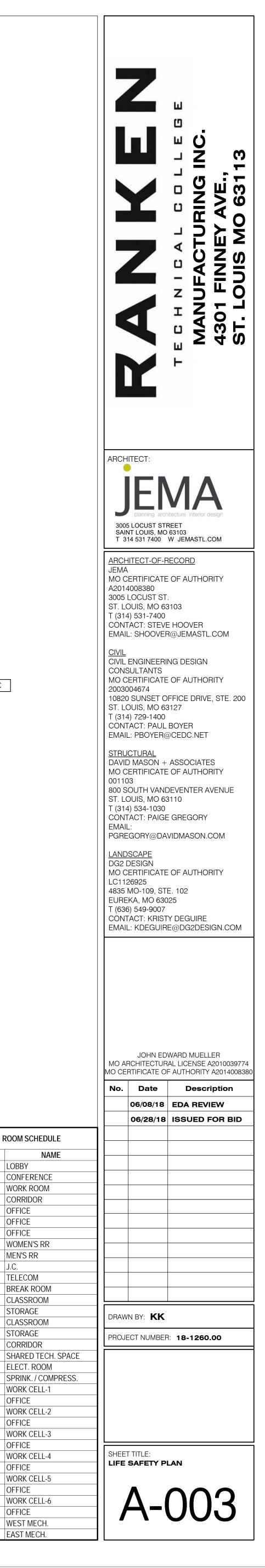
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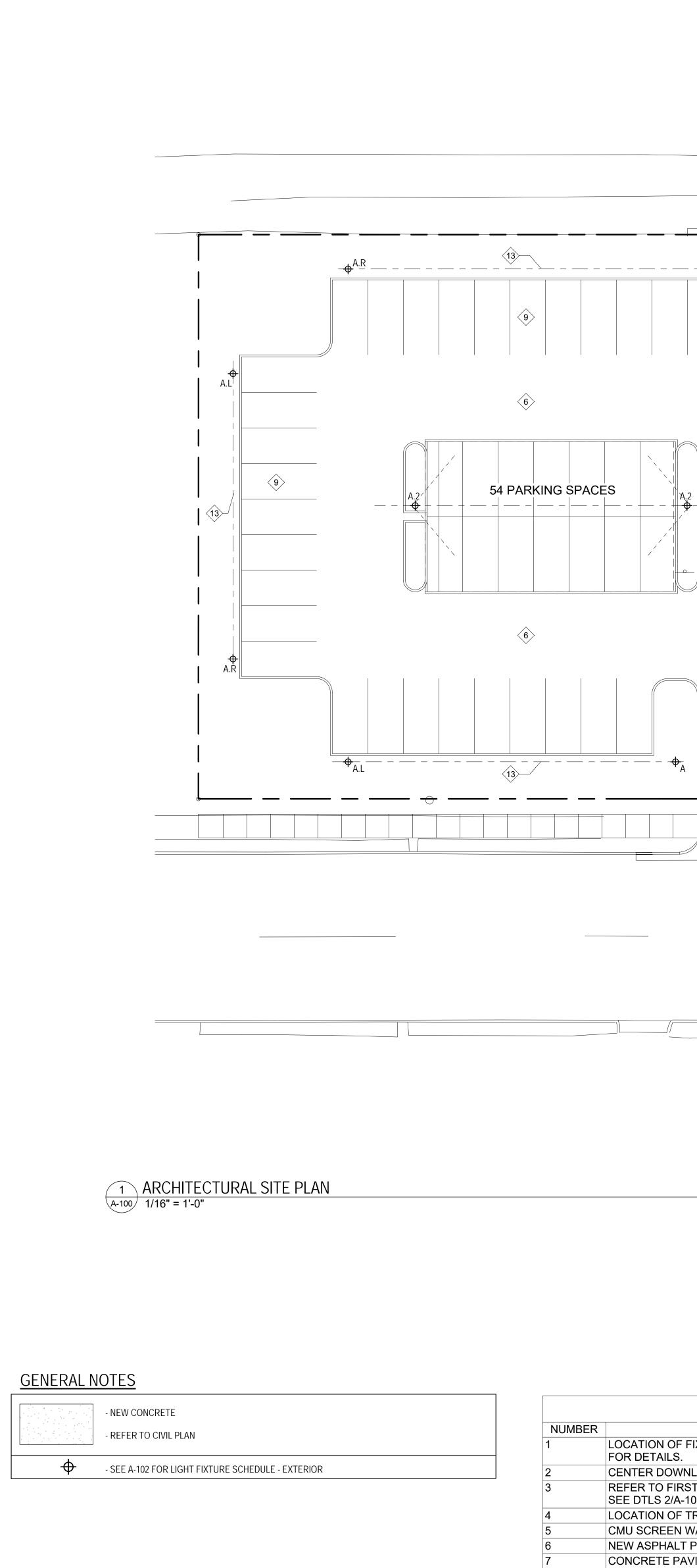
MEN'S RR

TELECOM

STORAGE

STORAGE





		1	2	3	4
A	18' - 0" 18' - 0" 15' - 4" 15' - 4" 15' - 4"	5	EQ EQ EQ		
A.2	1 A-102 A-102				
0					
6					
Ā					
					O Granite Curb
		FINNE	EY AVE.		

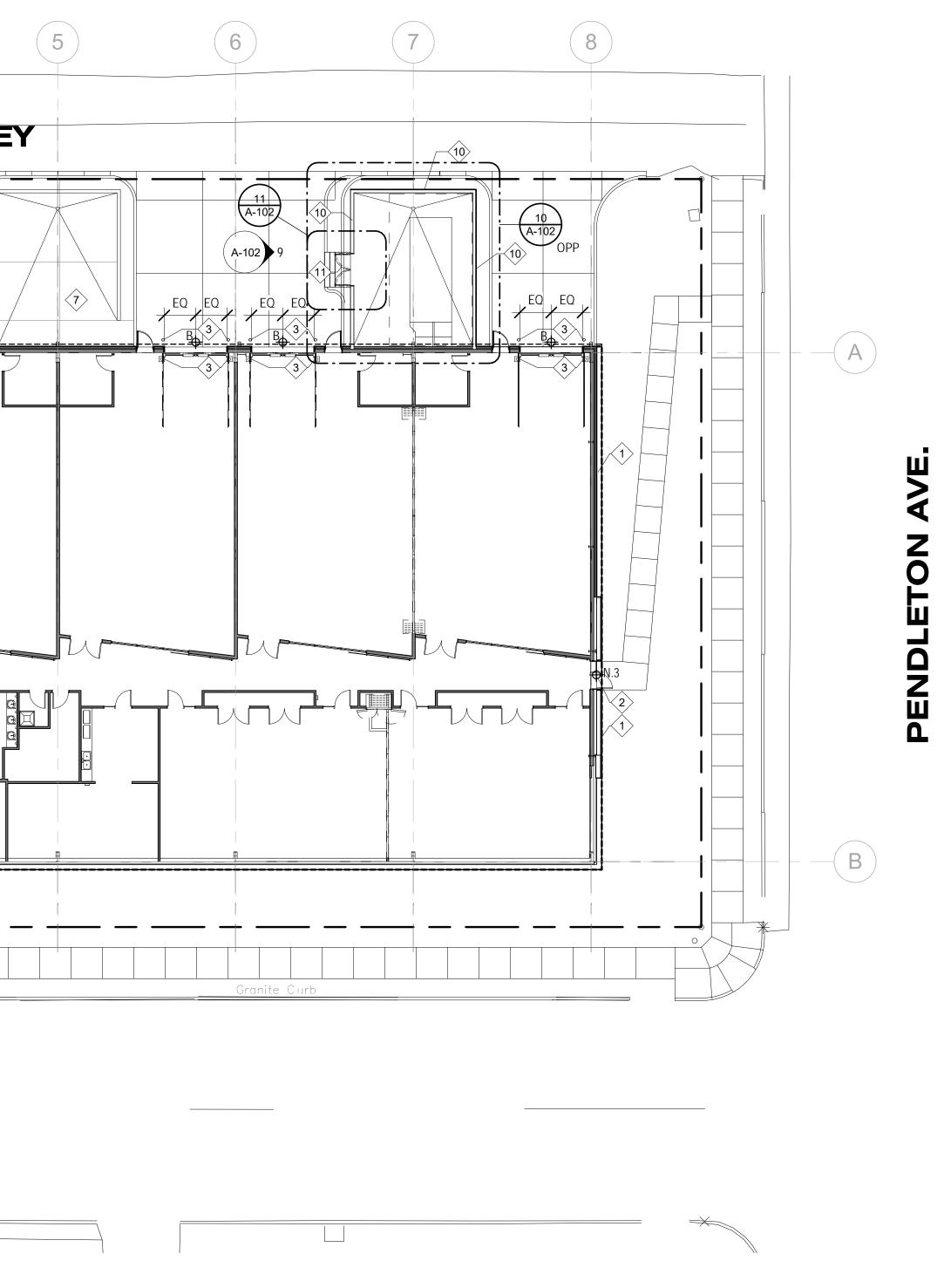
	KEYED NOTES - SITE PLAN
ER	DESCRIPTION
	LOCATION OF FIXTURE TYPE E. RE: A-601 FOR EXTENT, AND NOTED SECTIONS FOR DETAILS.
	CENTER DOWNLIGHT IN SOFFIT.
	REFER TO FIRST FLOOR ARCHITECTURAL PLAN FOR PIPE BOLLARD LOCATIONS. SEE DTLS 2/A-102 & 8/A-102
	LOCATION OF TRASH DUMPSTER, BY OWNER
	CMU SCREEN WALL, REFER TO DETAIL.
	NEW ASPHALT PAVING, REFER TO CIVIL DRAWINGS.
	CONCRETE PAVING, REFER TO CIVIL DRAWINGS.
	DOCK LIFT, REFER TO SPECIFICATIONS.
	PAVERS, REFER TO CIVIL DRAWINGS.
	CMU MECHANICAL SCREEN WALL, REFER TO DETAILS.
	GALVANIZED STEEL POSTS AN GATES WITH PRIVACY SLATS, REFER TO ELEVATION AND DETAILS
	PLANNED LOCATION OF PAD MOUNTED TRANSFORMER, ELECTRICAL CONTRCATOR TO CONFIRM SIZE AND COORDINATE WITH UTILITY.

10

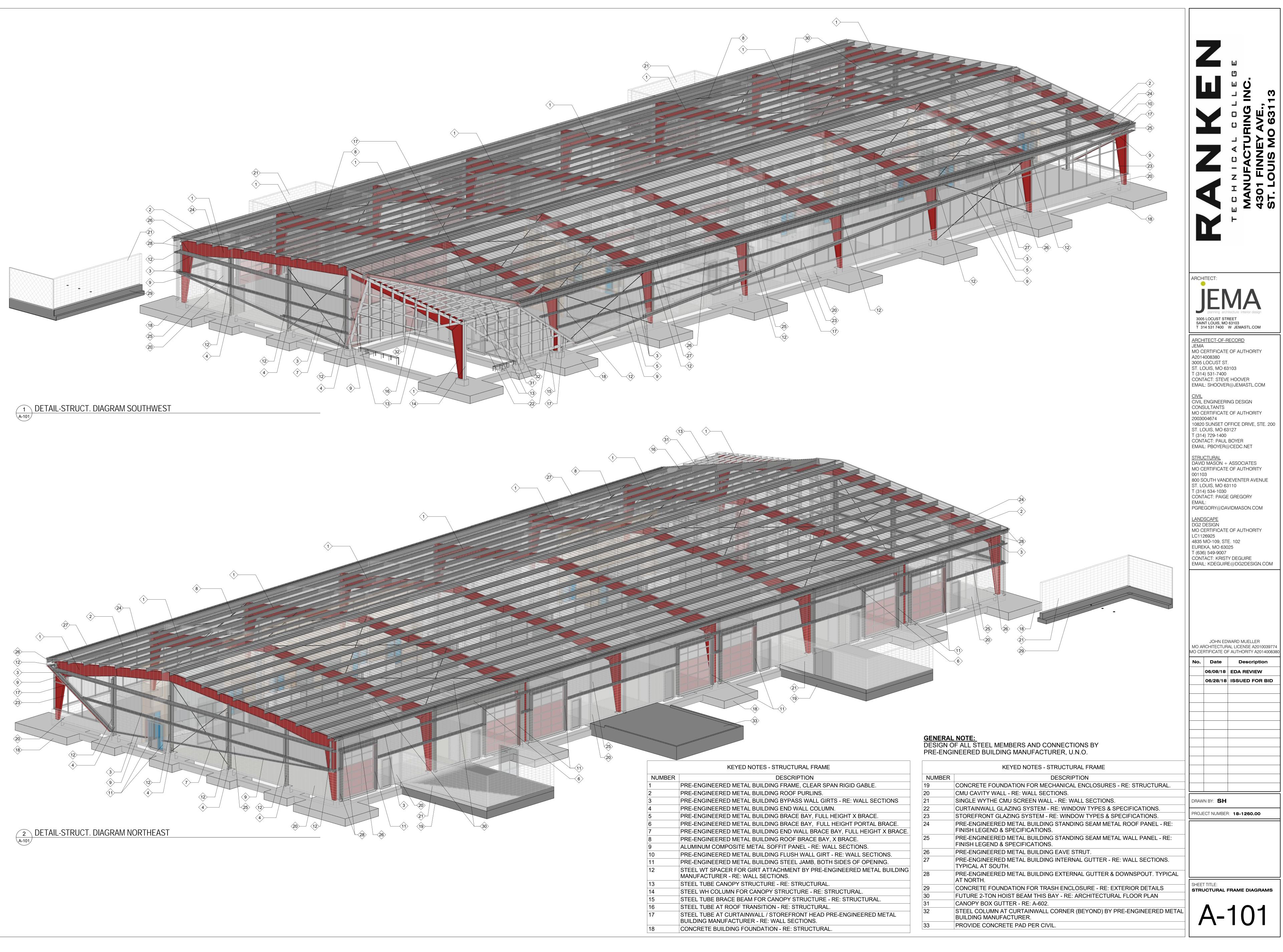
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ALIGN .

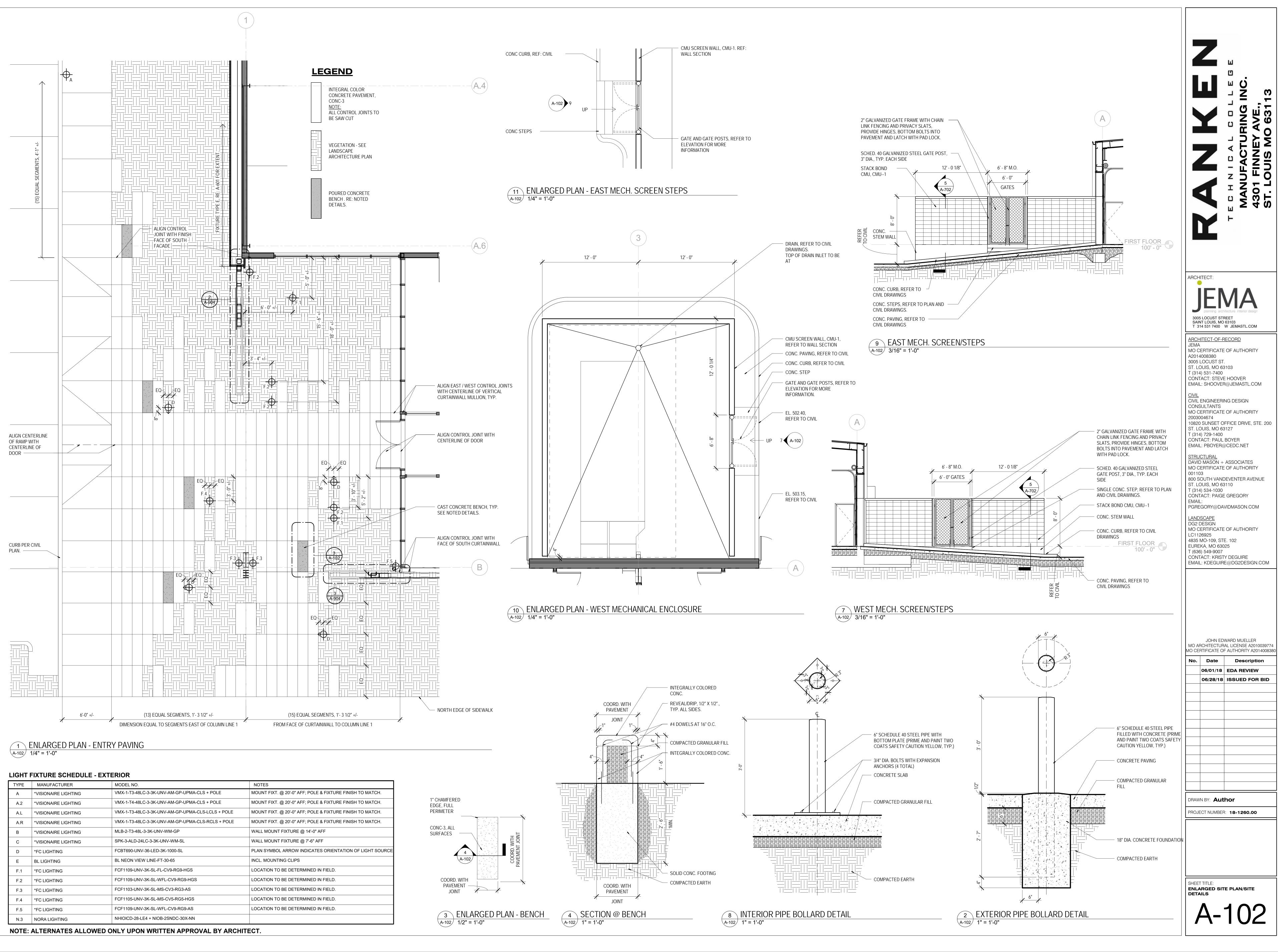


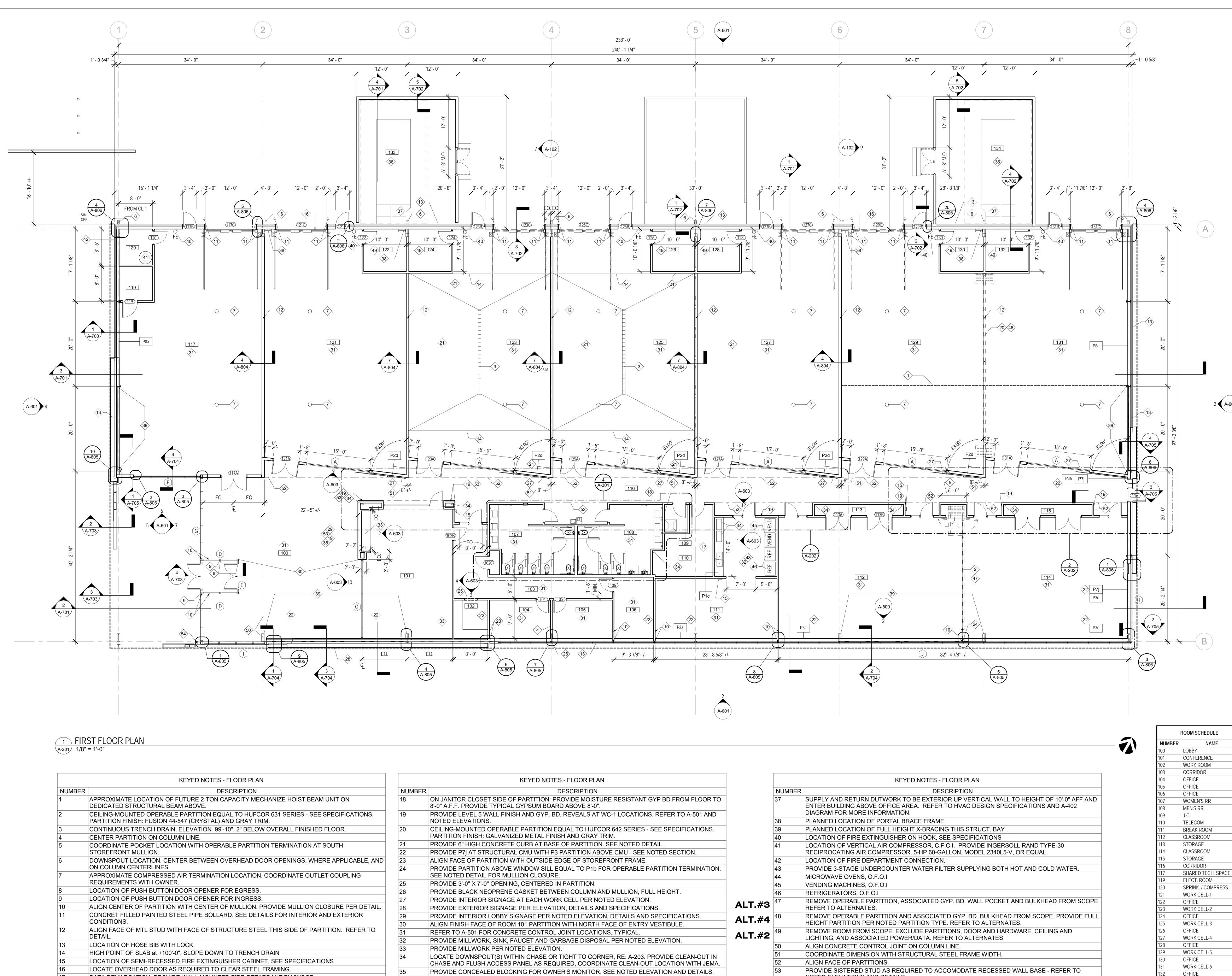
() $(\mathbf{p})$ ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM <u>CIVIL</u> CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: Author PROJECT NUMBER: 18-1260.00 SHEET TITLE: ARCHITECTURAL SITE PLAN -100



OTES - STRUCTURAL FRAME	
DESCRIPTION	NUM
BUILDING FRAME, CLEAR SPAN RIGID GABLE.	19
BUILDING ROOF PURLINS.	20
BUILDING BYPASS WALL GIRTS - RE: WALL SECTIONS	21
BUILDING END WALL COLUMN.	22
BUILDING BRACE BAY, FULL HEIGHT X BRACE.	23
BUILDING BRACE BAY, FULL HEIGHT PORTAL BRACE.	24
BUILDING END WALL BRACE BAY, FULL HEIGHT X BRACE.	
BUILDING ROOF BRACE BAY, X BRACE.	25
ETAL SOFFIT PANEL - RE: WALL SECTIONS.	
BUILDING FLUSH WALL GIRT - RE: WALL SECTIONS.	26
BUILDING STEEL JAMB, BOTH SIDES OF OPENING.	27
IRT ATTACHMENT BY PRE-ENGINEERED METAL BUILDING LL SECTIONS.	28
UCTURE - RE: STRUCTURAL.	29
CANOPY STRUCTURE - RE: STRUCTURAL.	29 30
I FOR CANOPY STRUCTURE - RE: STRUCTURAL.	30 31
ANSITION - RE: STRUCTURAL.	-
VALL / STOREFRONT HEAD PRE-ENGINEERED METAL R - RE: WALL SECTIONS.	32
INDATION - RE: STRUCTURAL.	33

	KEYED NOTES - STRUCTURAL FRAME
NUMBER	DESCRIPTION
19	CONCRETE FOUNDATION FOR MECHANICAL ENCLOSURES - RE: STRUCTU
20	CMU CAVITY WALL - RE: WALL SECTIONS.
21	SINGLE WYTHE CMU SCREEN WALL - RE: WALL SECTIONS.
22	CURTAINWALL GLAZING SYSTEM - RE: WINDOW TYPES & SPECIFICATIONS
23	STOREFRONT GLAZING SYSTEM - RE: WINDOW TYPES & SPECIFICATIONS
24	PRE-ENGINEERED METAL BUILDING STANDING SEAM METAL ROOF PANEL FINISH LEGEND & SPECIFICATIONS.
25	PRE-ENGINEERED METAL BUILDING STANDING SEAM METAL WALL PANEL FINISH LEGEND & SPECIFICATIONS.
26	PRE-ENGINEERED METAL BUILDING EAVE STRUT.
27	PRE-ENGINEERED METAL BUILDING INTERNAL GUTTER - RE: WALL SECTION TYPICAL AT SOUTH.
28	PRE-ENGINEERED METAL BUILDING EXTERNAL GUTTER & DOWNSPOUT. T AT NORTH.
29	CONCRETE FOUNDATION FOR TRASH ENCLOSURE - RE: EXTERIOR DETAIL
30	FUTURE 2-TON HOIST BEAM THIS BAY - RE: ARCHITECTURAL FLOOR PLAN
31	CANOPY BOX GUTTER - RE: A-602.
32	STEEL COLUMN AT CURTAINWALL CORNER (BEYOND) BY PRE-ENGINEERE BUILDING MANUFACTURER.
33	PROVIDE CONCRETE PAD PER CIVIL.





	KEYED NOTES - FLOOR PLAN
NUMBER	DESCRIPTION
1	APPROXIMATE LOCATION OF FUTURE 2-TON CAPACITY MECHANIZE HOIST BEAM UNIT ON DEDICATED STRUCTURAL BEAM ABOVE.
2	CEILING-MOUNTED OPERABLE PARTITION EQUAL TO HUFCOR 631 SERIES - SEE SPECIFICATIONS. PARTITION FINISH: FUSION 44-547 (CRYSTAL) AND GRAY TRIM.
3	CONTINUOUS TRENCH DRAIN, ELEVATION 99'-10", 2" BELOW OVERALL FINISHED FLOOR.
4	CENTER PARTITION ON COLUMN LINE.
5	COORDINATE POCKET LOCATION WITH OPERABLE PARTITION TERMINATION AT SOUTH STOREFRONT MULLION.
6	DOWNSPOUT LOCATION. CENTER BETWEEN OVERHEAD DOOR OPENINGS, WHERE APPLICABLE, A ON COLUMN CENTERLINES.
7	APPROXIMATE COMPRESSED AIR TERMINATION LOCATION. COORDINATE OUTLET COUPLING REQUIREMENTS WITH OWNER.
8	LOCATION OF PUSH BUTTON DOOR OPENER FOR EGRESS.
9	LOCATION OF PUSH BUTTON DOOR OPENER FOR INGRESS.
10	ALIGN CENTER OF PARTITION WITH CENTER OF MULLION. PROVIDE MULLION CLOSURE PER DETA
11	CONCRET FILLED PAINTED STEEL PIPE BOLLARD. SEE DETAILS FOR INTERIOR AND EXTERIOR CONDITIONS.
12	ALIGN FACE OF MTL STUD WITH FACE OF STRUCTURE STEEL THIS SIDE OF PARTITION. REFER TO DETAIL.
13	LOCATION OF HOSE BIB WITH LOCK.
14	HIGH POINT OF SLAB at +100'-0", SLOPE DOWN TO TRENCH DRAIN
15	LOCATION OF SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE SPECIFICATIONS
16	LOCATE OVERHEAD DOOR AS REQUIRED TO CLEAR STEEL FRAMING.
17	DATA DEMARCATION, PROVIDE WALL-MOUNTED FIRE-RETARDANT PLYWOOD.

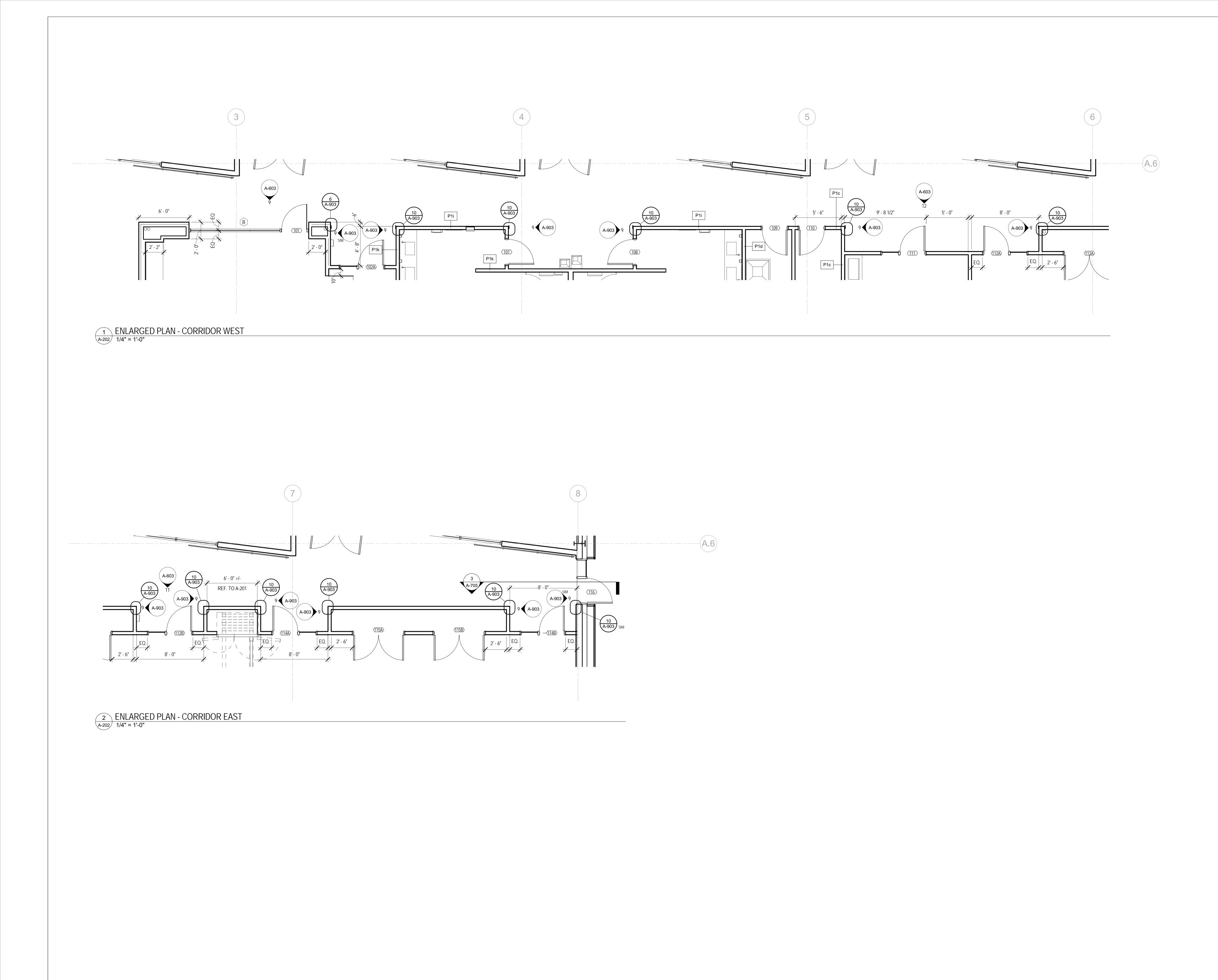
	KEYED NOTES - FLOOR PLAN		
NUMBER	DESCRIPTION		NUMB
-	ON JANITOR CLOSET SIDE OF PARTITION: PROVIDE MOISTURE RESISTANT GYP BD FROM FLOOR TO 8'-0" A.F.F. PROVIDE TYPICAL GYPSUM BOARD ABOVE 8'-0".		37
	PROVIDE LEVEL 5 WALL FINISH AND GYP. BD. REVEALS AT WC-1 LOCATIONS. REFER TO A-501 AND NOTED ELEVATIONS.		38
	CEILING-MOUNTED OPERABLE PARTITION EQUAL TO HUFCOR 642 SERIES - SEE SPECIFICATIONS. PARTITION FINISH: GALVANIZED METAL FINISH AND GRAY TRIM.		39 40
21 F	PROVIDE 6" HIGH CONCRETE CURB AT BASE OF PARTITION. SEE NOTED DETAIL.		41
22 F	PROVIDE P7j AT STRUCTURAL CMU WITH P3 PARTITION ABOVE CMU - SEE NOTED SECTION.		
23	ALIGN FACE OF PARTITION WITH OUTSIDE EDGE OF STOREFRONT FRAME.		42
	PROVIDE PARTITION ABOVE WINDOW SILL EQUAL TO P1b FOR OPERABLE PARTITION TERMINATION. SEE NOTED DETAIL FOR MULLION CLOSURE.		43 44
25 F	PROVIDE 3'-0" X 7'-0" OPENING, CENTERED IN PARTITION.		45
26 F	PROVIDE BLACK NEOPRENE GASKET BETWEEN COLUMN AND MULLION, FULL HEIGHT.		46
27 F	PROVIDE INTERIOR SIGNAGE AT EACH WORK CELL PER NOTED ELEVATION.	ALT #9	47
28 F	PROVIDE EXTERIOR SIGNAGE PER ELEVATION, DETAILS AND SPECIFICATIONS.	ALT.#3	
29 F	PROVIDE INTERIOR LOBBY SIGNAGE PER NOTED ELEVATION, DETAILS AND SPECIFICATIONS.	<b>ALT.</b> #4	48
30	ALIGN FINISH FACE OF ROOM 101 PARTITION WITH NORTH FACE OF ENTRY VESTIBULE.		
31 F	REFER TO A-501 FOR CONCRETE CONTROL JOINT LOCATIONS, TYPICAL.	ALT.#2	49
32 F	PROVIDE MILLWORK, SINK, FAUCET AND GARBAGE DISPOSAL PER NOTED ELEVATION.		50
33 F	PROVIDE MILLWORK PER NOTED ELEVATION.		50
	LOCATE DOWNSPOUT(S) WITHIN CHASE OR TIGHT TO CORNER, RE: A-203. PROVIDE CLEAN-OUT IN		51
	CHASE AND FLUSH ACCESS PANEL AS REQUIRED, COORDINATE CLEAN-OUT LOCATION WITH JEMA.		52
	PROVIDE CONCEALED BLOCKING FOR OWNER'S MONITOR. SEE NOTED ELEVATION AND DETAILS.		53
	GROUND MOUNTED MECHANICAL UNIT, REFER TO HVAC DESIGN SPECIFICATIONS AND A-402 DIAGRAM FOR MORE INFORMATION.		54

NOTED ELEVATIONS AND DETAILS. 5" ROUND DOWNSPOUT. SEE DETAIL 1/A-805 FOR MORE INFORMATION.

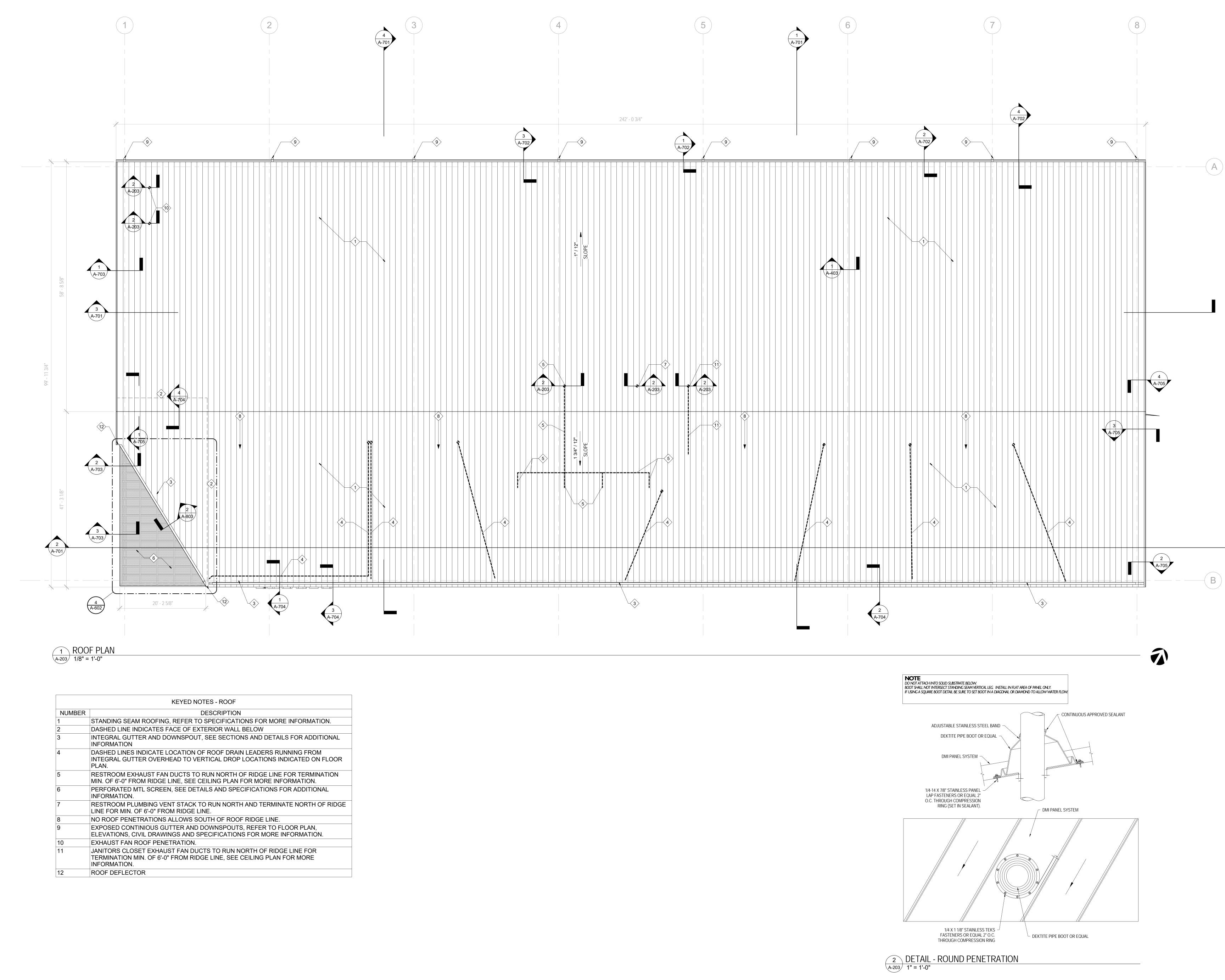
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WEST MECH.

EAST MECH.

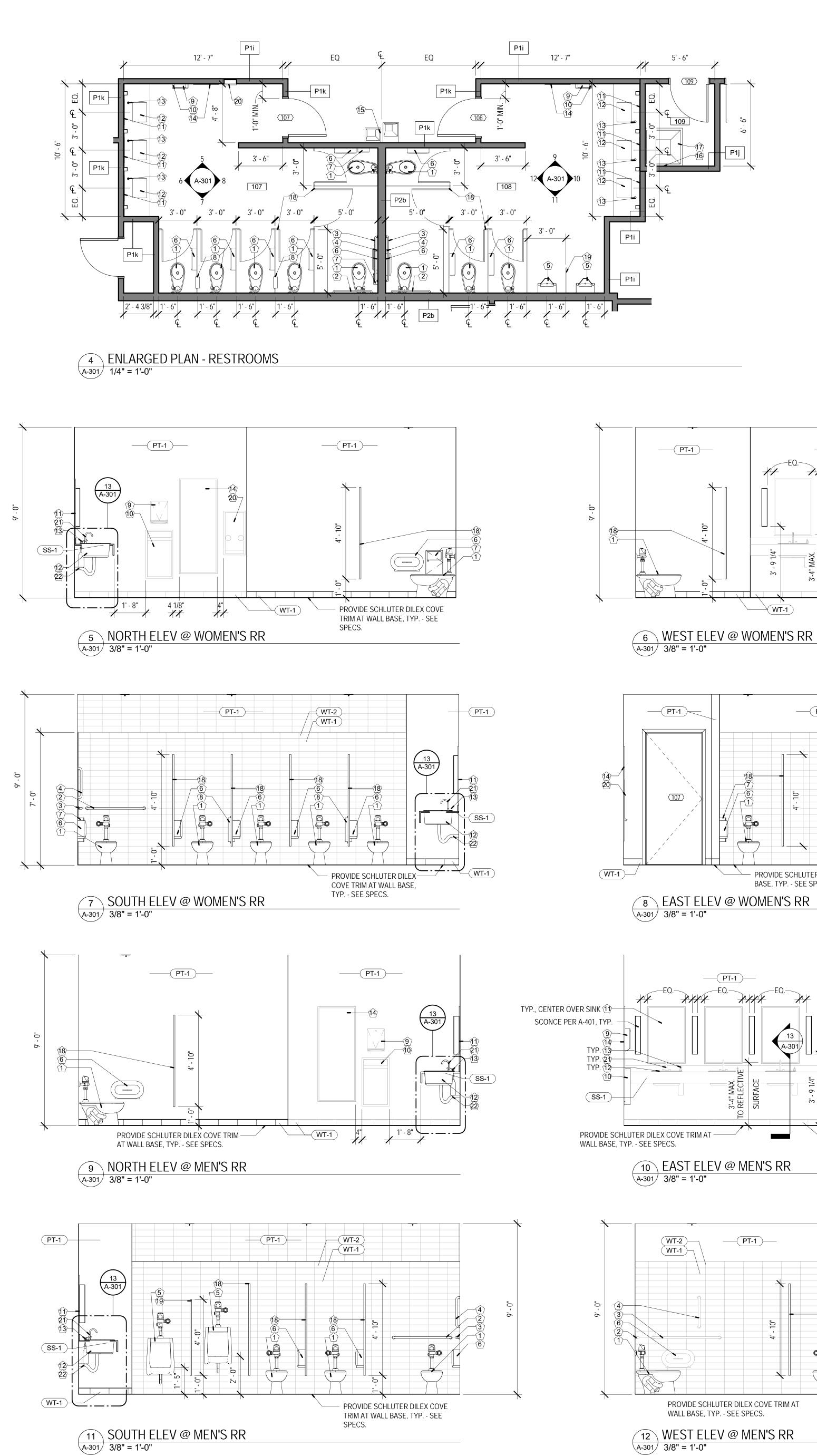


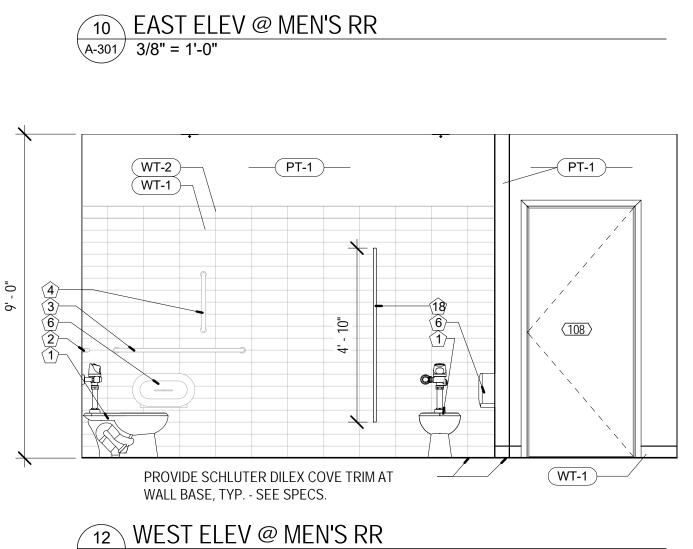
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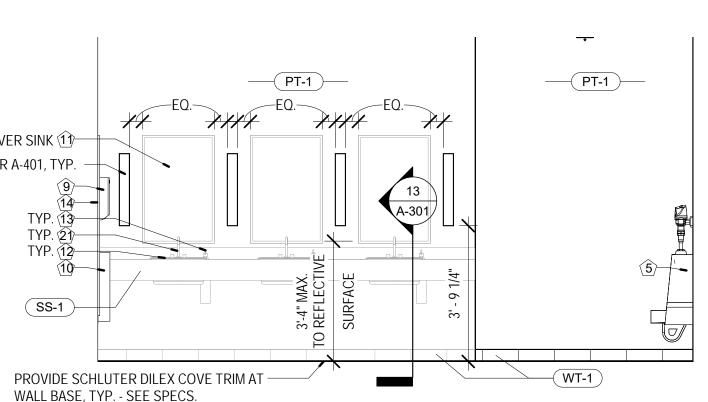


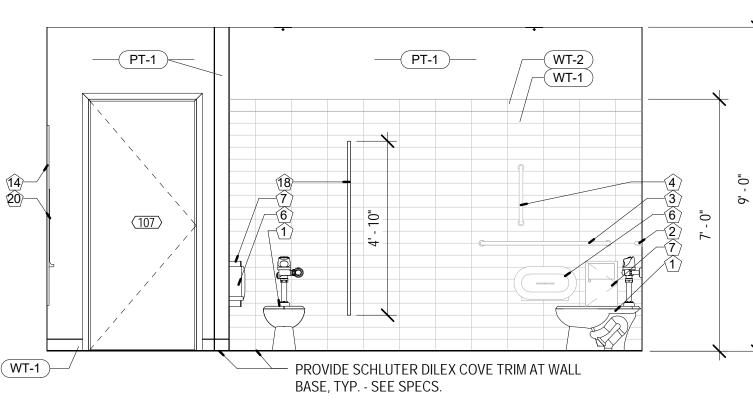
	KEYED NOTES - ROOF
NUMBER	DESCRIPTION
1	STANDING SEAM ROOFING, REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2	DASHED LINE INDICATES FACE OF EXTERIOR WALL BELOW
3	INTEGRAL GUTTER AND DOWNSPOUT, SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION
4	DASHED LINES INDICATE LOCATION OF ROOF DRAIN LEADERS RUNNING FROM INTEGRAL GUTTER OVERHEAD TO VERTICAL DROP LOCATIONS INDICATED ON FLOOR PLAN.
5	RESTROOM EXHAUST FAN DUCTS TO RUN NORTH OF RIDGE LINE FOR TERMINATION MIN. OF 6'-0" FROM RIDGE LINE, SEE CEILING PLAN FOR MORE INFORMATION.
6	PERFORATED MTL SCREEN, SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7	RESTROOM PLUMBING VENT STACK TO RUN NORTH AND TERMINATE NORTH OF RIDGE LINE FOR MIN. OF 6'-0" FROM RIDGE LINE.
8	NO ROOF PENETRATIONS ALLOWS SOUTH OF ROOF RIDGE LINE.
9	EXPOSED CONTINIOUS GUTTER AND DOWNSPOUTS, REFER TO FLOOR PLAN, ELEVATIONS, CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
10	EXHAUST FAN ROOF PENETRATION.
11	JANITORS CLOSET EXHAUST FAN DUCTS TO RUN NORTH OF RIDGE LINE FOR TERMINATION MIN. OF 6'-0" FROM RIDGE LINE, SEE CEILING PLAN FOR MORE INFORMATION.
12	ROOF DEFLECTOR

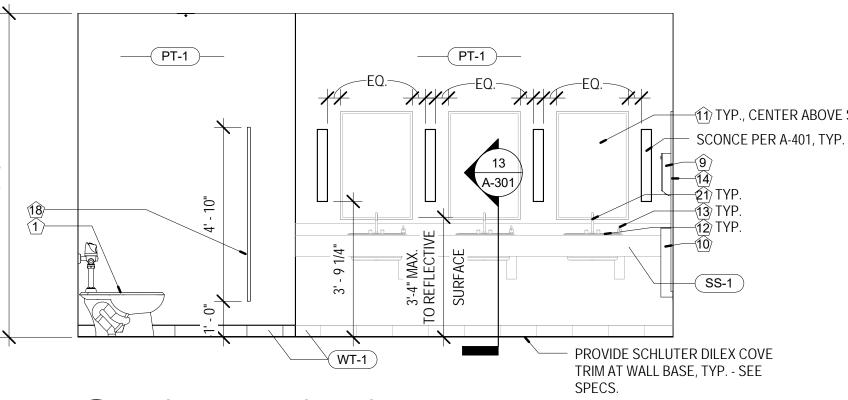




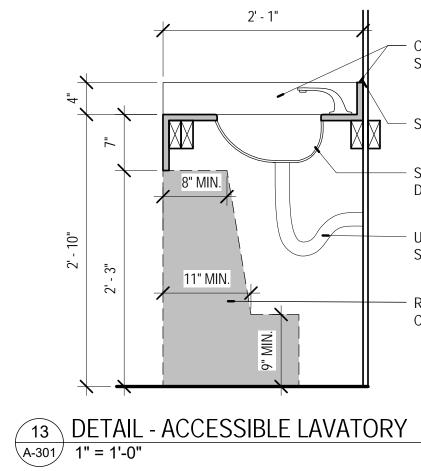










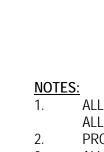


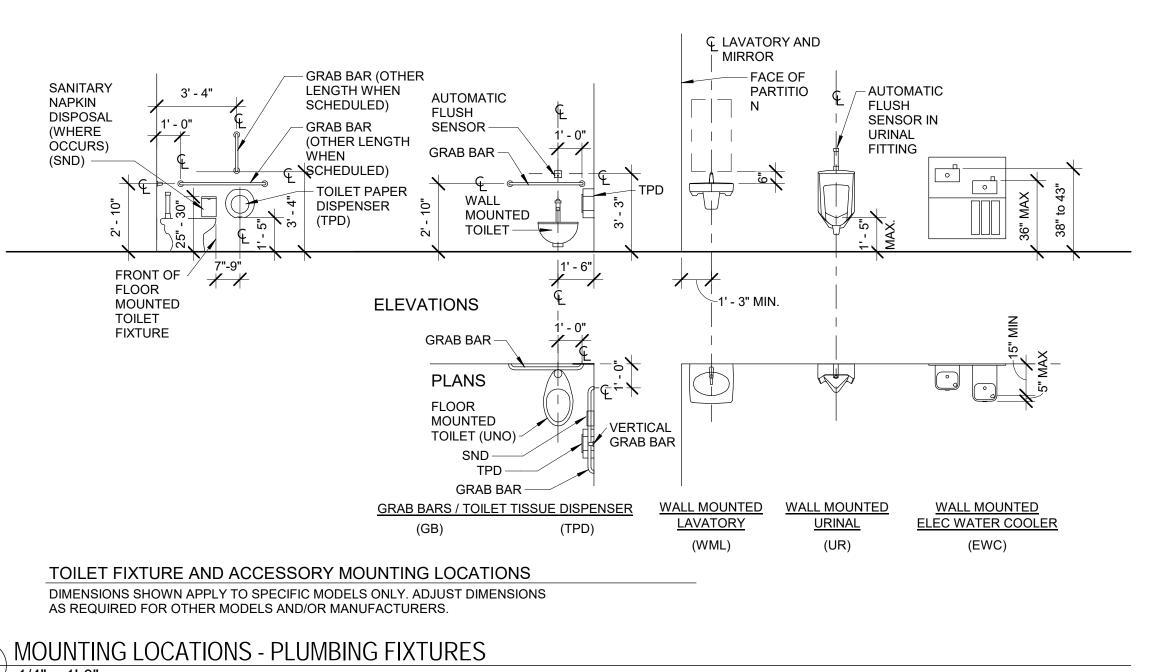
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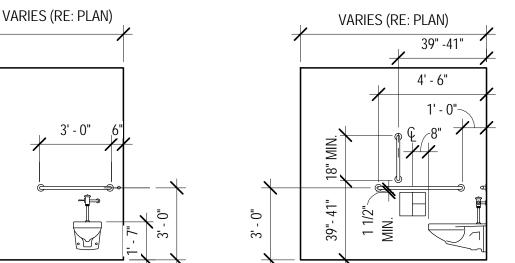
	#K-96057-0, ( AUTOMATIC #ZER600PL-I
<u>2</u> )	<b>GRAB BAR</b> : GRAB BAR V FINISH STAII
$\sim$	

	ALL FIXTURES 117.1. NUMBEI
7	FLOOR-MOU #K-96057-0, 0 AUTOMATIC





### ALL FIXTURES TO COMPLY WITH AND BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE A.D.A., ANSI, AND BUILDING CODE REQUIREMENTS. PROVIDE BLOCKING FOR LAVATORY AND GRAB BARS. ALL DIMENSIONS SHOWN ARE MINIMUM U.N.O. DASHED LINES INDICATE REQUIRED CLEARANCES.



2 MOUNTING LOCATIONS - PLUMBING FIXTURES - ADA WC A-301 1/4" = 1'-0"

### PLUMBING FIXTURES AND ACCESSORIES LEGEND:

S, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI ERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

- **DUNTED TOILET:** KOHLER HIGHCLIFF , COLOR: WHITE. PROVIDE WITH C FLUSH VALVE EQUAL TO ZURN -HET-CPM .
- R: BOBRICK #B-5806.99 X 36 HORIZONTAL WITH CONCEALED MOUNTING, SATIN AINLESS STEEL
- (3) GRAB BAR: BOBRICK #B-5806.99 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- **GRAB BAR:** BOBRICK #B-5806.99 X 18 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- WALL-MOUNTED URINAL: KOHLER BARDON #K-4904-ET, COLOR: WHITE. PROVIDE WITH AUTOMATIC FLUSH VALVE EQUAL TO ZURN ZER6003PL-CCP-EWS.
- TOILET TISSUE DISPENSER: SURFACE MOUNTED,
- SANITARY DISPOSAL: BOBRICK #B-254 CLASSIC SERIES, PARTITION-MOUNTED, SATIN FINISH STAINLESS STEEL
- (WOMEN'S RESTROOMS ONLY)

- **SANITARY DISPOSAL**: BOBRICK #B-354 CLASSIC SERIES, DUAL SIDED, PARTITION-MOUNTED, SATIN FINISH STAINLESS STEEL (WOMEN'S RESTROOMS ONLY).
- 9 **PAPER TOWEL DISPENSER**: SURFACE MOUNT, O.F.C.I.
- WASTE RECEPTACLE: BOBRICK #B-3644 CLASSIC 1 SERIES, PARTIAL RECESSED, SATIN FINISH STAINLESS STEEL
- MIRROR: BOBRICK #B-165-2436 SERIES CHANNEL-1 FRAMED MIRROR, 24"X36"
- **UNDERMOUNT LAVATORY:** KOHLER CAXTON 12 RECTANGLE #K-20000-0, COLOR: WHITE.
- SOAP DISPENSER: LAVATORY-MOUNTED, O.F.C.I. MIRROR: BOBRICK #B-165-2460 SERIES CHANNEL-FRAMED MIRROR, 24"X60"



**DRINKING FOUNTAIN WITH BOTTLE FILLER**: ELKAY #LMABFTL8WSLK.

– REFER TO

PLAN FOR

ORIENTATION

1)

5' - 0" CLEAR

+

AND SWING

DOOR

**REFER TO** 

PLAN FOR

ORIENTATION

AND SWING -

EQ EQ

 $\times$ 

3' - 0"

CLEAR

DOOR

3 ENLARGED TYP. RESTROOM PLANS

EQ EQ

3' - 0"

CLEAR

A-301 1/4" = 1'-0"

- 16 UTILITY SHELF: BOBRICK #B-224 WITH MOP/BROOM HOLDERS AND RAG HOOKS
- (17) MOP SINK: FIAT TSB-100, 24"X24", WHITE PORTLAND CEMENT WITH WHITE CHIPS. PROVIDE WITH FACUET EQUAL TO FIAT 830AA.
- 18 **TOILET PARTITION:** BRADLEY POWDER COATED, SERIES 500, FLOOR-BRACED, COLOR: BLACK (0250). SEE SPECIFICATIONS.
- (19) URINAL SCREEN: BRADLEY POWDER COATED, WALL HUNG, COLOR: BLACK (0250). SEE SPECIFICATIONS.
- SANITARY DISPENSER: SEMI-RECESSED, O.F.C.I.
- FAUCET: EQUAL TO ZURN Z6913-XL. 21
- **UNDERLAVATORY GUARD:** EQUAL TO TRUEBRO LAV 🖄 GUARD.

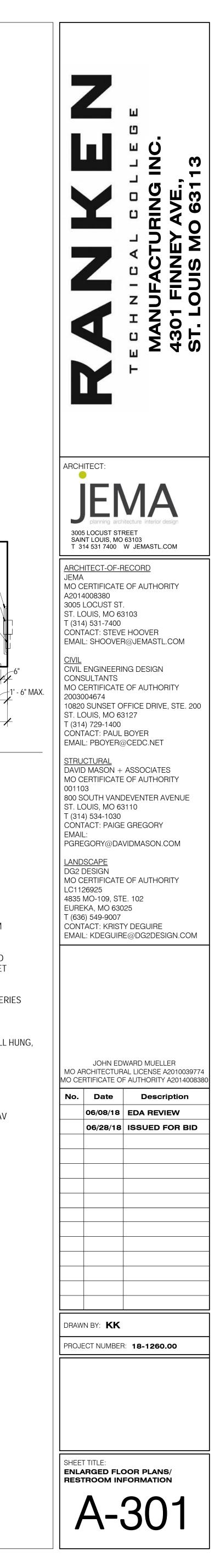
COUNTERTOP BACKSPLASH, SIDESPLASH & FACE, EASE EDGES

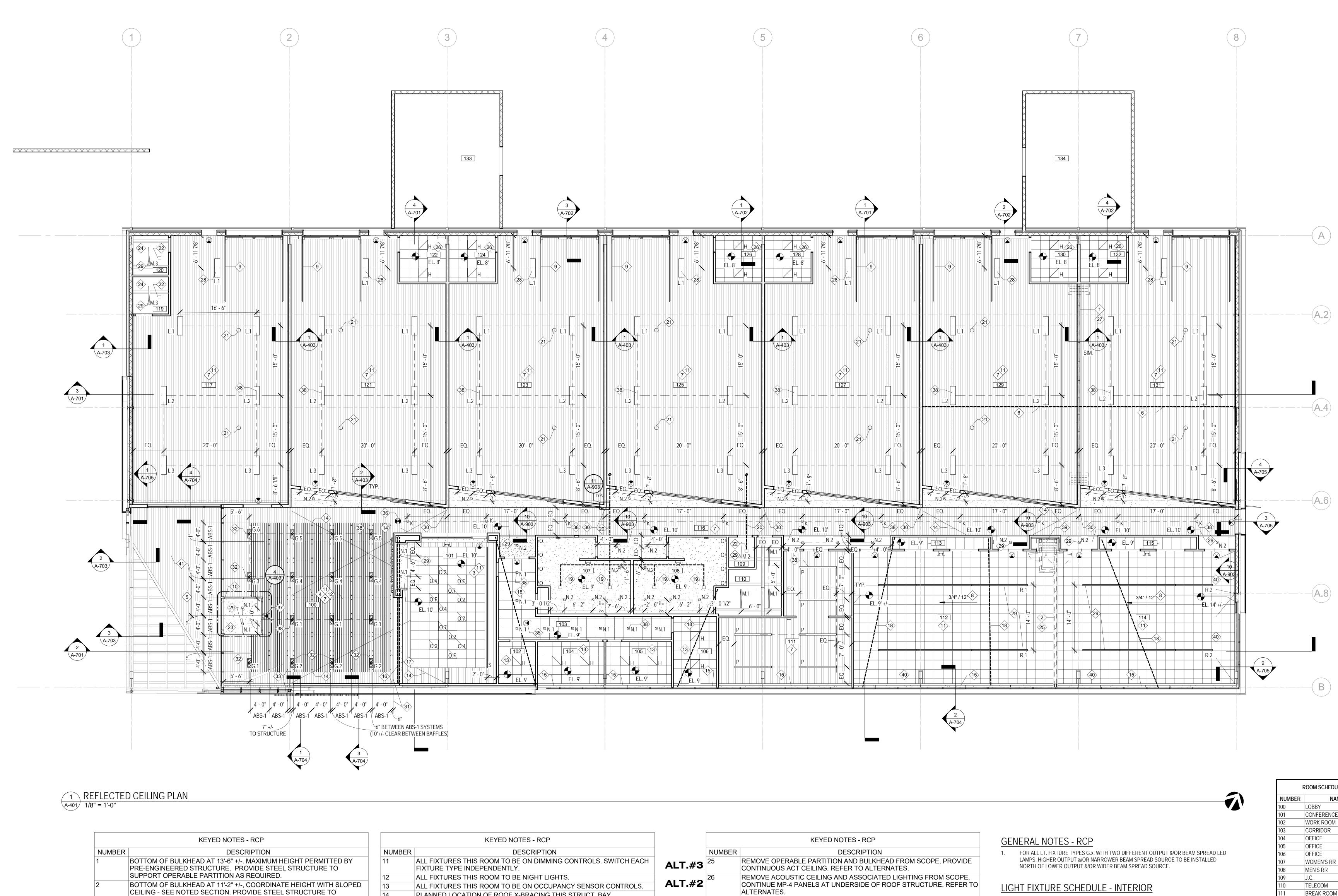
- SEALANT - SINK (ADA OVERFLOW

DESIGN)

UNDERLAVATORY GUARD - TYP. SEE SPEC.

- REQUIRED ACCESSIBLE CLEARANCE





	KEYED NOTES - RCP	
NUMBER	DESCRIPTION	NUM
1	BOTTOM OF BULKHEAD AT 13'-6" +/ MAXIMUM HEIGHT PERMITTED BY PRE-ENGINEERED STRUCTURE. PROVIDE STEEL STRUCTURE TO SUPPORT OPERABLE PARTITION AS REQUIRED.	11
2		12
Ζ	BOTTOM OF BULKHEAD AT 11'-2" +/-, COORDINATE HEIGHT WITH SLOPED CEILING - SEE NOTED SECTION. PROVIDE STEEL STRUCTURE TO	13
	SUPPORT OPERABLE PARTITION AS REQUIRED.	14
3	FLOATING ACT CEILING AT 10'-0" A.F.F. PROVIDE 6" COMPOSSO TRIM FULL PERIMETER, COLOR: WHITE	
4	PROVIDE (56) ABS-1 SYSTEMS, LAYOUT AS NOTED. BAFFLES TO BE HUNG AT ANGLE PARALLEL TO ROOF PLANE, BOTTOM OF BAFFLE TO BE 2'-0" BELOW MP-5 PANELS.	16
5	CENTER ROWS OF ABS-1 BETWEEN NOTED CURTAINWALL MULLIONS.	17
6	APPROXIMATE LOCATION OF FUTURE 2-TON CAPACITY MECHANIZED	
0	ENGINE HOIST BEAM UNIT ON DEDICATED STRUCTURAL BEAM ABOVE. HOIST BEAM TO BE SUPPORTED BY PRE-ENGINEERED BUILDING FRAME.	18
7		19
1	NO CEILING THIS AREA, OPEN TO LINER PANELS AT UNDERSIDE OF ROOF STRUCTURE. TAKE CARE TO RUN ALL EXPOSED PIPES, CONDUIT, ETC. IN	
	CONSOLIDATED PATHS, TURN AT 90 DEGREE ANGLE - RE:A-402.	20
8	INSTALL ACT CEILING AS SLOPED PLANE. ELEVATION TO BE 1" ABOVE	
	HEAD MULLION OF SOUTH STOREFRONT, SLOPE TO MATCH STOREFRONT HEAD ANGLE.	21
9	OVERHEAD DOOR SUPPORT RAILS, HANGERS AND BRACING TO STRUCT.	22
	BY DOOR CONTRACTOR.	22
10	PROVIDE ALUMINUM TRIM FULL PERIMETER OF GYP. BD. CEILING. SEE NOTED DETAIL.	23 24

\_\_\_\_\_ 

	KEYED NOTES - RCP			
ΞR	DESCRIPTION			
	ALL FIXTURES THIS ROOM TO BE ON DIMMING CONTROLS. SWITCH EACH FIXTURE TYPE INDEPENDENTLY.			
	ALL FIXTURES THIS ROOM TO BE NIGHT LIGHTS.			
	ALL FIXTURES THIS ROOM TO BE ON OCCUPANCY SENSOR CONTROLS.			
	PLANNED LOCATION OF ROOF X-BRACING THIS STRUCT. BAY .			
	PROVIDE WINDOW SHADE POCKET PER ELEVATION 2/A-500 AND DETAIL 5/A-803			
	APPROXIMATE LOCATION OF INTERNAL DOWNSPOUT LEADER FOR STRUCT. BAY 1-2. HOLD TIGHT TO SOUTH WALL AND TURN IN CONCEALED SOFFIT AT CONFERENCE ROOM.			
	APPROXIMATE LOCATION OF INTERNAL DOWNSPOUT LEADER FOR STRUCT. BAY 2-3. CONCEAL WITHIN CONFERENCE ROOM SOFFIT.			
	APPROXIMATE LOCATION OF INTERNAL DOWNSPOUT LEADER. TAKE CARE TO CONCEAL ABOVE GYPSUM BOARD / ACOUSTIC CEILING.			
	EXHAUST FAN LOCATION, SEE NOTES ROOF PLAN FOR ADDITIONAL NOTES ON TERMINATION LOCATION.			
	DASHED LINE INDICATES RUN/LOCATION OF EXHAUST FAN DUCTS RUN TIGHT TO UNDERSIDE OF LINER PANEL AND TIGHT TO ADJACENT STEEL BEAM MEMBER AS IT CROSSES CORRIDOR.			
	APPROXIMATE COMPRESSED AIR TERMINATION LOCATION. COORDINATE OUTLET COUPLING REQUIREMENTS WITH OWNER.			
	PROVIDE EXHAUST FAN THIS ROOM.			
	PROVIDE UNIT HEATER IN CEILING, SEE SHEET A-402 FOR MORE INFORMATION.			
	PROVIDE WALL HUNG UNIT HEATER, SEE SHEET A-402 FOR MORE INFORMATION.			

	KEYED NOTES - RCF		
	NUMBER	DESCRIPTIC	
ALT.#3	25	REMOVE OPERABLE PARTITION AND BULK CONTINUOUS ACT CEILING. REFER TO ALT	
ALT.#2	26	REMOVE ACOUSTIC CEILING AND ASSOCIA CONTINUE MP-4 PANELS AT UNDERSIDE C ALTERNATES.	
<b>ALT.</b> #4	27	REMOVE OPERABLE PARTITION AND BULK FULL HEIGHT PARTITION. REFER TO ALTER	
	28	HOLD LIGHT FIXTURE AS TIGHT TO OVERH	
	29	CENTER LIGHT FIXTURE(S) IN ROOM / SOF	
	30	PROVIDE LIGHT POCKET AND FIXTURE J P	
	31	OFFSET ABS-1 INSTALLATION FROM FACE	
	32	CENTER LIGHT FIXTURES ON ABS-1 BAFFL	
	33	HOLD ABS-1 SYSTEM TIGHT TO STRUCTUF	
	35	PROVIDE SURFACE CEILING MOUNT EXIT	
	36	PROVIDE PENDANT MOUNT EXIT SIGN.	
	37	PROVIDE SURFACE WALL MOUNT EXIT SIG	
	38	PROVIDE BATTERY BACK-UP FOR FIXTURE LIGHT.	
ALT.#3	39	REMOVED OPERABLE PARTITION POCKET CONTINUOUS SOFFIT AT NOTED ELEVATION	
	40	HOLD CEILING 1" OFF STRUCTURE, PROVI WHITE) FULL PERIMETER OF OPENING.	
	41	PROVIDE MP-5 LINER PANELS AT UNDERS PRE-ENGINEERED ROOF STRUCTURE.	

KHEAD FROM SCOPE, PROVIDE ERNATES. RHEAD DOOR AS POSSIBLE. FFIT AS SHOWN. PER NOTED DETAIL.

SEE A-403

E OF SOFFIT ABOVE. FLE SYSTEM AS SHOWN, TYP. RF SIGN.

GIGN, BLACK IN COLOR. JRE TO SERVE AS EMERGENCY

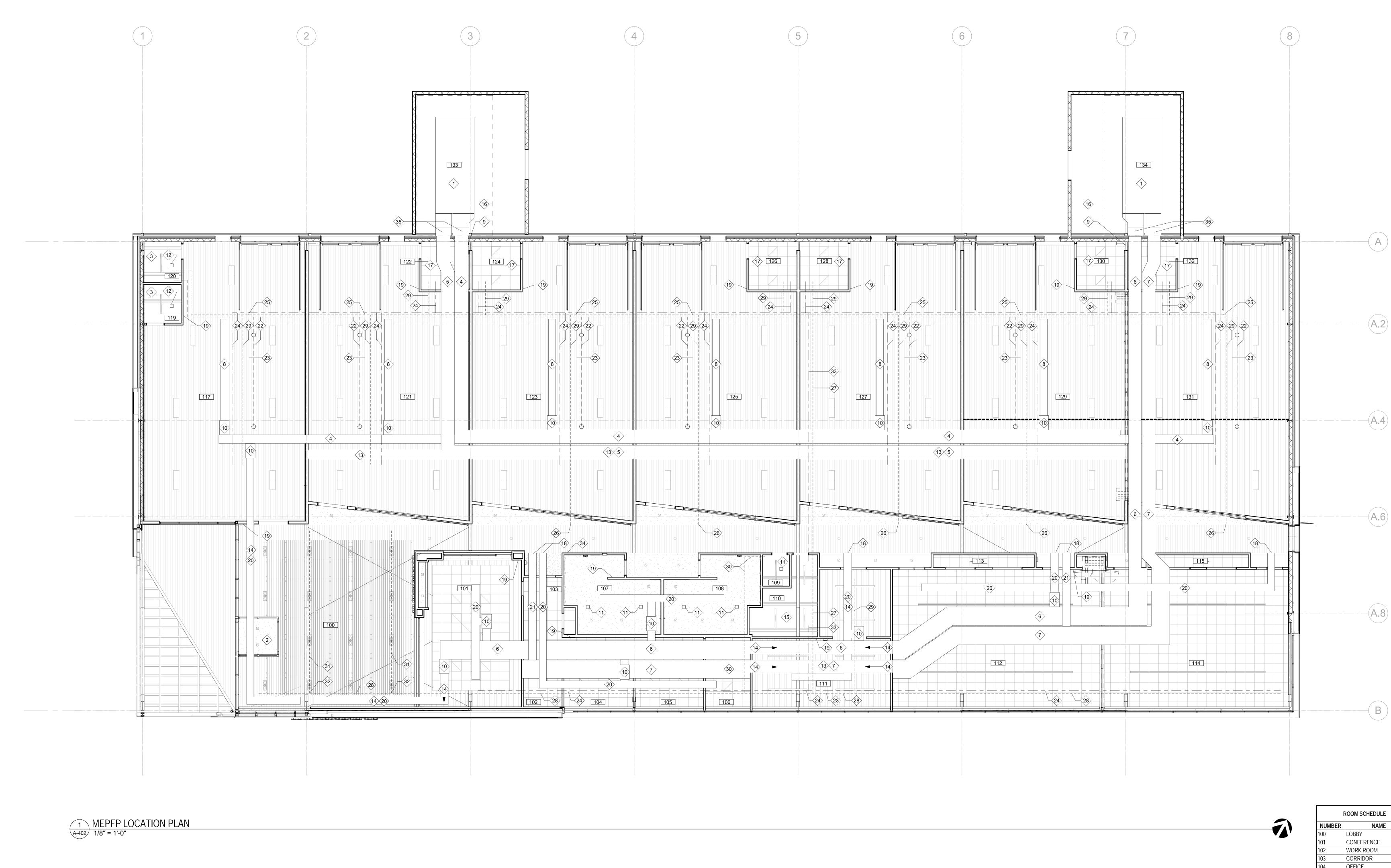
T FROM SCOPE, PROVIDE TION. REFER TO ALTERNATES. VIDE 6" COMPASSO TRIM (COLOR:

SIDE OF EXPOSED



F	ROOM SCHEDULE			
	NAME			
	LOBBY			
	CONFERENCE			
	WORK ROOM			
	CORRIDOR			
	OFFICE			
	OFFICE			
	OFFICE			
	WOMEN'S RR			
	MEN'S RR			
	J.C.			
	TELECOM			
	BREAK ROOM			
	CLASSROOM			
	STORAGE			
	CLASSROOM			
	STORAGE			
	CORRIDOR			
	SHARED TECH. SPACE			
	ELECT. ROOM			
	SPRINK. / COMPRESS.			
	WORK CELL-1			
	OFFICE			
	WORK CELL-2			
	OFFICE			
	WORK CELL-3			
	OFFICE			
	WORK CELL-4			
	OFFICE			
	WORK CELL-5			
	OFFICE			
	WORK CELL-6			
	OFFICE			
	WEST MECH.			

EAST MECH.



### GENERAL NOTES - MEPFP LOCATION PLAN

- 1. REFER TO HVAC DESIGN/BUILD CRITERIA SPECIFICATIONS FOR MORE INFORMATION.
- 2. DUCT LAYOUT SHOWN IS TO REPRESENT A DIAGRAM OF THE DESIRED OVERALL APPROACH. DESIGN/BUILD MECHANICAL ENGINEER TO PROVIDE CODE COMPLIANT AND FULLY ENGINEERED DUCT LAYOUT AND RUNS.
- 3. ZONES INDICATED AS A RESULT OF THE PLACEMENT OF THE VAV TERMINAL UNITS IS SUGGESTED. FINAL ZONING TO BE DESIGED BY
- DESIGN/BUILD MECHANICAL CONTRACTOR. 4. ALL EXPOSED DUCTWORK TO BE ROUND SPIRAL, INCLUDING ALL WORK CELL SUPPLY AND RETURN DUCTS, AND OFFICE DUCTWORK AS NOTED.
- 5. ALL EXPOSED DUCTWORK TO FOLLOW ANGLE OF ROOF/CEILING PLANE, HOLD TIGHT TO CEILING.
- 6. ALL EXPOSED CONDUIT TO BE HARD CONDUIT.
- 7. TAKE CARE TO RUN ALL EXPOSED PIPES, CONDUIT, ETC. IN CONSOLIDATED PATHS, TURN AT 90 DEGREE ANGLES. 8. REFER TO A-002 FOR ADDITIONAL DESIGN/BUILD NOTES.

	KEYED NOTES - MEPFP LOO
NUMBER	DESCRIP
1	GROUND MOUNTED MECHANICAL UNIT, REFER TOMORE INFORMATION.
2	CABINET UNIT HEATER IN VESTIBULE GYP. BD. C FIT WITHIN THE VESTIBULE CEILING PLENUM. C MULLIONS TO BELOW SLAB, REFER TO ELECTRI
3	PROVIDE ELECTRIC WALL HUNG UNIT HEATER T
4	APPROX. LOCATION OF WORK CELL MAIN SUPPI
5	APPROX. LOCATION OF WORK CELL MAIN RETUI
6	APPROX. LOCATION OF CLASSROOM/OFFICE/CC
7	APPROX. LOCATION OF CLASSROOM/OFFICE/CC
8	APPROX. LOCATION OF WORK CELL SUPPLY RU
9	GROUND MOUNTED MECHANICAL UNIT TO BE LO BY BUILDING STRUCTURAL FRAME.
10	PROVIDE VARIABLE AIR VOLUME TERMINAL UNI HVAC DESIGN CRITERIA SPECIFICATIONS FOR M
11	PROVIDE CODE REQUIRED EXHAUST FOR BATH TO HVAC DESIGN CRITERIA SPECIFICATIONS FC
12	PROVIDE EXHAUST FAN FOR THIS ROOM.
13	PROVIDE TRANSFER DUCT AS REQUIRED TO RE
14	PROVIDE ROUND SPIRAL DUCT FOR ALL AREAS VIEW.
15	PROVIDE MINI-SPLIT SYSTEM FOR THIS ROOM, O OF THE MECHANICAL ENCLOSURES.

DCATION PLAN
PTION
R TO HVAC DESIGN SPECIFICATIONS FOR
CEILING. UNIT TO BE SHALLOW ENOUGH TO CONDUIT FOR POWER TO RUN DOWN RICAL PLAN FOR MORE INFO.
THIS ROOM.
PLY DUCT RUNS.
JRN DUCT RUNS.
CONF/LOBBY MAIN SUPPLY DUCT RUNS.
CONF/LOBBY MAIN RETURN DUCT RUNS.
UNS.
LOCATED SO THAT DUCT RUNS WILL PASS
NITS WITH ELECTRIC REHEAT, REFER TO MORE INFORMATION.
HROOMS AND JANITOR'S CLOSET , REFER OR MORE INFORMATION.
ETURN AIR TO THE AHU.
S IN WHICH DUCTS WILL BE EXPOSED TO
CONDENSING UNIT TO BE LOCATED IN ONE

	KEYED NOTES - MEPFP LOCATION PLAN		
NUMBER	MBER DESCRIPTION		
16	CONDENSOR UNIT FOR MINI-SPLIT SYSTEM TO BE LOCATED ON ONE OF THE TWO MECHANICAL ENCLOSURES.		
17	WORK CELL OFFICE TO BE SERVICED BY VAV TERMINAL WITHIN THE SAME WORK CELL.		
18	CORRIDOR TO BE SERVED BY THE VAV TERMINAL IN ADJACENT AREA OT THE SOUTH VIA SIDE WALL SUPPLY DIFFUSERS.		
19	TEMPERATURE CONTROL FOR THIS VAV UNIT ZONE TO BE LOCATED IN THIS LOCATION.		
20	APPROX. LOCATION OF CLASSROOM/OFFICE/CONF/LOBBY SUPPLY RUNS.		
21	APPROX. LOCATION OF CLASSROOM/OFFICE/CONF/LOBBY SUPPLY RUNS.		
22	APPROXIMATE LOCATION OF AIR COMPRESSOR PIPING. PIPING TO RUN TIGHT TO CEILIN SECONDARY RUNS TO FOLLOW ROOF/CEILING SLOPE.		
23	ELECTRICAL HARD CONDUIT PATHWAYS TO FOLLOW NOTED AIR COMPRESSOR, LOW VOLTAGE AND SPRINKLER ROUTES. HOLD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE. ADDITIONAL PATHWAYS REQUIRED FOR LIGHT FIXTURES TO BE PERPENDICULAN TO MAIN EAST/WEST ROUTE, HELD AS TIGHT TO FIXTURES AS POSSIBLE.		
24	APPROXIMATE LOCATION OF LOW VOLTAGE CABLE TRAY ROUTE. WHERE EXPOSED: HOI TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE.		
25	APPROXIMATE LOCATION OF NORTH SPRINKLER MAIN, HOLD TIGHT TO UNDERSIDE OF STRUCTURAL FRAME.		
26	PROVIDE SIDEWALL SPRINKLER HEAD FOR CORRIDOR COVERAGE.		
27	APPROX. LOCATION OF SPRINKLER CROSS MAIN. HOLD TIGHT TO CEILING, FOLLOW RO CEILING SLOPE BOTH SIDES OF RIDGE.		
28	APPROXIMATE LOCATION OF SOUTH SPRINKLER MAIN, HOLD TIGHT TO UNDERSIDE O STRUCTURAL FRAME. PROVIDE SECONDARY RUNS ABOVE DROPPED CEILINGS AS REQUIRED.		

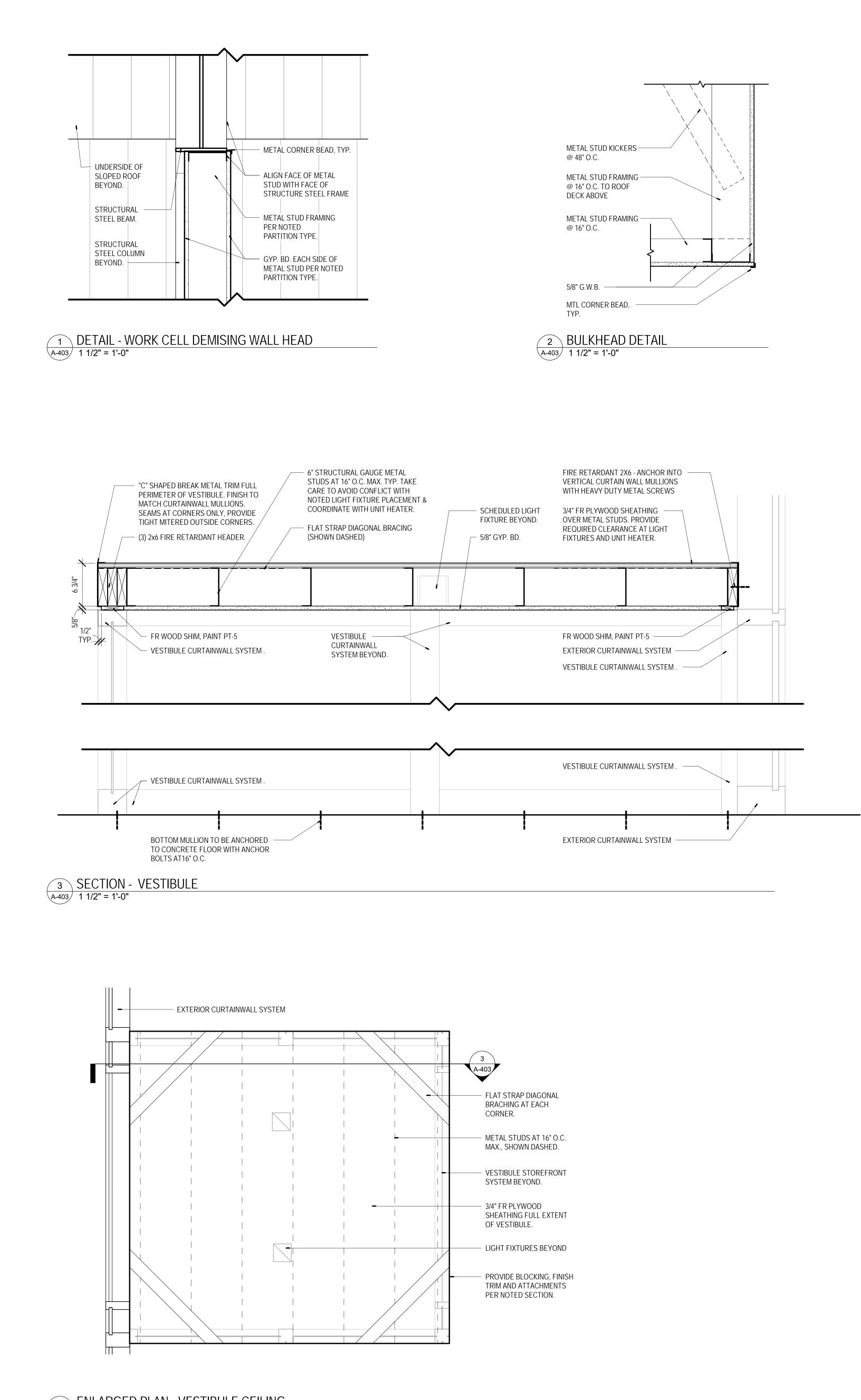
<ul> <li>APPROXIMATE LOCATION OF SECONDARY SPRINKLER RUN. HOLD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE. QUANTITY T.B.D. BY FP CONTRACTOR.</li> <li>APPROXIMATE LOCATION OF SOUTH DRAIN LEADER PIPE, CONCEAL ABOVE DROPPEI CEILINGS. TERMINATE DRAIN AND PROVIDE VALVE IN ROOM 109.</li> <li>APPROXIMATE LOCATION OF SECONDARY SPRINKLER RUN, COORDINATE WITH ABS- OPENINGS FOR LIGHT FIXTURES. HOLD PIPING ABOVE ABS-1, FOLLOW ROOF/CEILING SLOPE. QUANTITY T.B.D. BY FP CONTRACTOR.</li> <li>PROVIDE VERTICAL TRANSITION FROM MAIN TO SECONDARY PIPE AT THIS LOCATION APPROX. LOCATION OF MAIN LOW VOLTAGE CABLE RUN OUT OF ROOM 110. ALL EXPPOSED CABLE TO BE HOUSED IN CABLE TRAY HELD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE.</li> <li>APPROX. LOCATION OF WALL-MOUNT WIRELESS ACCESS POINT.</li> </ul>	NUMBER	DESCRIPTION
CEILINGS. TERMINATE DRAIN AND PROVIDE VALVE IN ROOM 109.31APPROXIMATE LOCATION OF SECONDARY SPRINKLER RUN, COORDINATE WITH ABS-1 OPENINGS FOR LIGHT FIXTURES. HOLD PIPING ABOVE ABS-1, FOLLOW ROOF/CEILING SLOPE. QUANTITY T.B.D. BY FP CONTRACTOR.32PROVIDE VERTICAL TRANSITION FROM MAIN TO SECONDARY PIPE AT THIS LOCATION OF MAIN LOW VOLTAGE CABLE RUN OUT OF ROOM 110. ALL EXPPOSED CABLE TO BE HOUSED IN CABLE TRAY HELD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE.34APPROX. LOCATION OF WALL-MOUNT WIRELESS ACCESS POINT.35MECHANICAL SUPPLY AND RETURN DUCTS TO BE INSULTED EXTERIOR DUCTS TO 10'		APPROXIMATE LOCATION OF SECONDARY SPRINKLER RUN. HOLD TIGHT TO CEILING,
<ul> <li>OPENINGS FOR LIGHT FIXTURES. HOLD PIPING ABOVE ABS-1, FOLLOW ROOF/CEILING SLOPE. QUANTITY T.B.D. BY FP CONTRACTOR.</li> <li>PROVIDE VERTICAL TRANSITION FROM MAIN TO SECONDARY PIPE AT THIS LOCATION</li> <li>APPROX. LOCATION OF MAIN LOW VOLTAGE CABLE RUN OUT OF ROOM 110. ALL EXPPOSED CABLE TO BE HOUSED IN CABLE TRAY HELD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE.</li> <li>APPROX. LOCATION OF WALL-MOUNT WIRELESS ACCESS POINT.</li> <li>MECHANICAL SUPPLY AND RETURN DUCTS TO BE INSULTED EXTERIOR DUCTS TO 10<sup>1</sup></li> </ul>	30	APPROXIMATE LOCATION OF SOUTH DRAIN LEADER PIPE, CONCEAL ABOVE DROPPED CEILINGS. TERMINATE DRAIN AND PROVIDE VALVE IN ROOM 109.
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<ul> <li>EXPPOSED CABLE TO BE HOUSED IN CABLE TRAY HELD TIGHT TO CEILING, FOLLOW ROOF/CEILING SLOPE.</li> <li>34 APPROX. LOCATION OF WALL-MOUNT WIRELESS ACCESS POINT.</li> <li>35 MECHANICAL SUPPLY AND RETURN DUCTS TO BE INSULTED EXTERIOR DUCTS TO 10<sup>1</sup></li> </ul>	32	PROVIDE VERTICAL TRANSITION FROM MAIN TO SECONDARY PIPE AT THIS LOCATION
35 MECHANICAL SUPPLY AND RETURN DUCTS TO BE INSULTED EXTERIOR DUCTS TO 10 <sup>1</sup>	33	EXPPOSED CABLE TO BE HOUSED IN CABLE TRAY HELD TIGHT TO CEILING, FOLLOW
	34	APPROX. LOCATION OF WALL-MOUNT WIRELESS ACCESS POINT.
	35	MECHANICAL SUPPLY AND RETURN DUCTS TO BE INSULTED EXTERIOR DUCTS TO 10 <sup>-,</sup> A.F.F. PROVIDE BREAK METAL FINISH ENCLOSURE PER NOTED ELEVATIONS.

ROOM SCHEDULE			
NUMBER	NAME		
100	LOBBY		
101	CONFERENCE		
102	WORK ROOM		
103	CORRIDOR		
104	OFFICE		
105	OFFICE		
106	OFFICE		
107	WOMEN'S RR		
108	MEN'S RR		
109	J.C.		
110	TELECOM		
111	BREAK ROOM		
112	CLASSROOM		
113	STORAGE		
114	CLASSROOM		
115	STORAGE		
116	CORRIDOR		
117	SHARED TECH. SPACE		
119	ELECT. ROOM		
120	SPRINK. / COMPRESS.		
121	WORK CELL-1		
122	OFFICE		
123	WORK CELL-2		
124	OFFICE		
125	WORK CELL-3		
126	OFFICE		
127	WORK CELL-4		
128	OFFICE		
129	WORK CELL-5		
130	OFFICE		
131	WORK CELL-6		
132	OFFICE		
133	WEST MECH.		
134	EAST MECH.		

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\_\_\_\_\_ SPACE RESS. \_\_\_\_\_ 

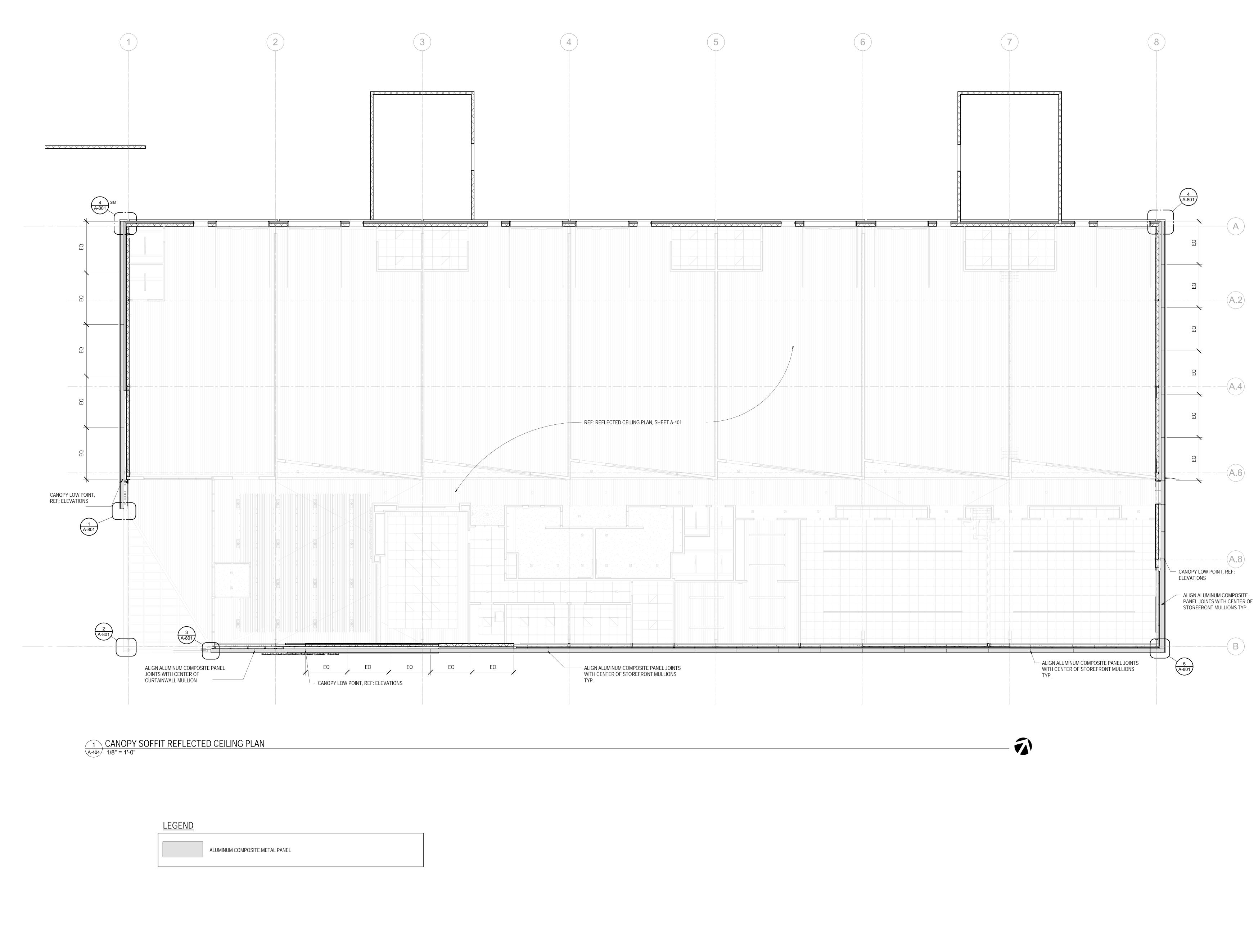


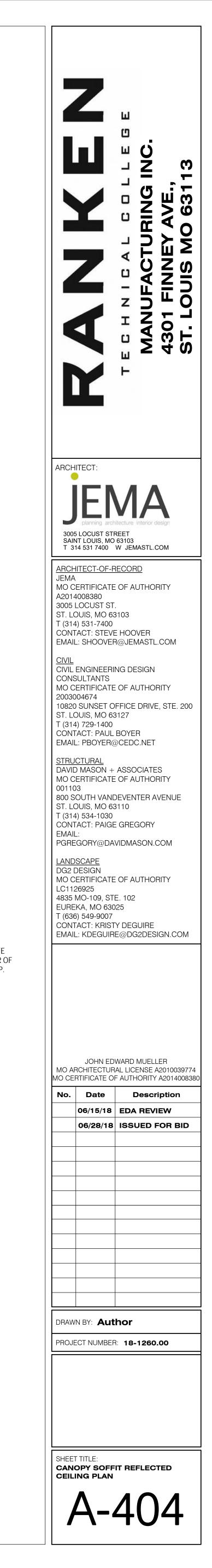


LIGHT	FIXTURE SCH	EDULE - INTERIOR	
TYPE	MANUFACTURE	MODEL NO.	NOTES
G.1	*3G LIGHTING	3G-PM-2LED-22-S80-35K-60D-120-DIM-NG-SV-60-HXB70	FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
G.2	*3G LIGHTING	3G-PM-2LED-CUST-S80-35K-60D-120-DIM-NG-SV-60-HXB70	CUSTOM LAMPING: (1)-22 & (1)-15; FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
G.3	*3G LIGHTING	3G-PM-2LED-30-S80-35K-60D-120-DIM-NG-SV-60-HXB70	FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
G.4	*3G LIGHTING	3G-PM-2LED-22-S80-35K-CUST-120-DIM-NG-SV-60-HXB70	CUSTOM LAMPING: (1)-60D & (1)-40D; FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
G.5	*3G LIGHTING	3G-PM-2LED-22-S80-35K-40D-120-DIM-NG-SV-60-HXB70	FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
G.6	*3G LIGHTING	3G-PM-2LED-30-S80-35K-CUST-120-DIM-NG-SV-60-HXB70	CUSTOM LAMPING: (1)-60D & (1)-40D; FIXT. TO FOLLOW SLOPE OF ROOF; B.O. FIXT. TO ALIGN W/ B.O. ABS-1
н	ENVOY LIGHTING	EBCBLED-22-40W-35KMV-CP	
J	LUMENTRUSS	B3528-24V-240-14MM-19.5W-3500K-IP22	INCL. 45 DEG WOOD MLD. (0.95" W) + NECESSARY DRIVERS, WIRE LEADS, & MISC. HARDWARE; SEE DETAL
к	*FC LIGHTING	FCC610P-120V-LED-35K-2000-SL-WFL	OVERALL PENDANT HEIGHT, INCL. LT. FIXT., TO BE 18" TOTAL.
L.1	*AEI LIGHTING	AHBK-18L-40K-UNI-FR-CAB-PD	B.O. FIXT. TO BE 48" BELOW CEILING
L.2	*AEI LIGHTING	AHBK-21L-40K-UNI-FR-CAB-PD	B.O. FIXT. TO BE 48" BELOW CEILING
L.3	*AEI LIGHTING	AHBK-25L-40K-UNI-FR-CAB-PD	B.O. FIXT. TO BE 48" BELOW CEILING
M.1	PHILIPS	FSI-4-40L-840-UNV-DIM + FKR-126	B.O. FIXT. TO 12' AFF
M.2	PHILIPS	FSI-4-55L-840-UNV-DIM + FKR-126	B.O. FIXT. TO 12' AFF
M.3	PHILIPS	FSI-4-70L-840-UNV-DIM + FKR-126	B.O. FIXT. TO 12' AFF
N.1	NORA LIGHTING	NRM2-413-L09-35-F-CW + NHMIC2-409LE5	
N.2	NORA LIGHTING	NRM2-413-L15-35-F-CW + NHM2-415LE5	
0	*FOCAL POINT	FNVL22ACx2000L35K1CUNVLD1T2WH	VARIOUS LENS DEPTHS: NUMERIC SUFFIX TO TYPE INDICATES DEPTH (EXAMPLE: O.2 IS A 2" LENS DEPTH) O.F. INDICATES FLUSH LENS.
Р	*LUMIUM	O1-CSD-CR8'-35K-VLO-UNV-ND-SC-MF-MA-41-MF-PSS-8	INCL. REMOTE DRIVER; B.O. FIXT. @ 10'-0" AFF
Q	*LUMIUM	Nb3-SMT-2'-35K-VLO-UNV-ND-SC-MF-0	WALL MOUNT; SEE RESTROOM ELEV. FOR FIXTURE LOCATION.
R.1	*LUMIUM	O1-CSD-CR32'-35K-VLO-UNV-1D-SC-MF-MA-41-MF-PSS-2'	FIXT. TO FOLLOW SLOPE OF CEILING; T.O. FIXT. 10" BELOW CEILING.
R.2	*LUMIUM	O1-CSD-CR28'-35K-VLO-UNV-1D-SC-MF-MA-41-MF-PSS-2'	FIXT. TO FOLLOW SLOPE OF CEILING; T.O. FIXT. 10" BELOW CEILING.
S	NORA LIGHTING	(10) NTE-845L30XF35W + (2) NT-331W + (1) NT-301W + (2) NT-310W + (1) NT-316	SUSPEND TRACK SO THAT B.O. TRACK HEADS ARE AT 10'-6" AFF ALIGN NORTH/SOUTH PLACEMENT WITH ADJACENT SUSPENDED ACT CEILING.
$\mathbf{x}$	COOPER LIGHTING	AXU SERIES, ATLITE	SURFACE MOUNT, U.N.O. WH FINISH, U.N.O.
	CONCEALITE	F5000 SERIES	LED LAMPING, RECESSED BACK BOX

NOTE: ALTERNATES ALLOWED ONLY UPON WRITTEN APPROVAL BY ARCHITECT.

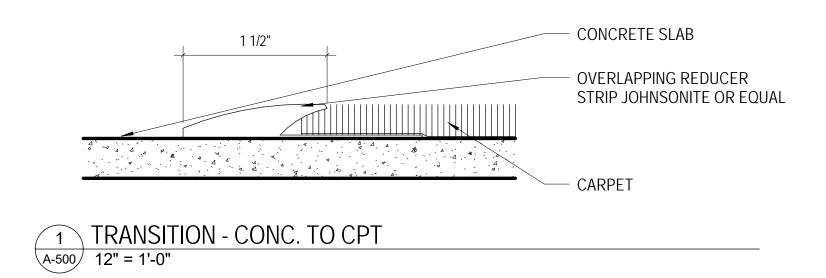


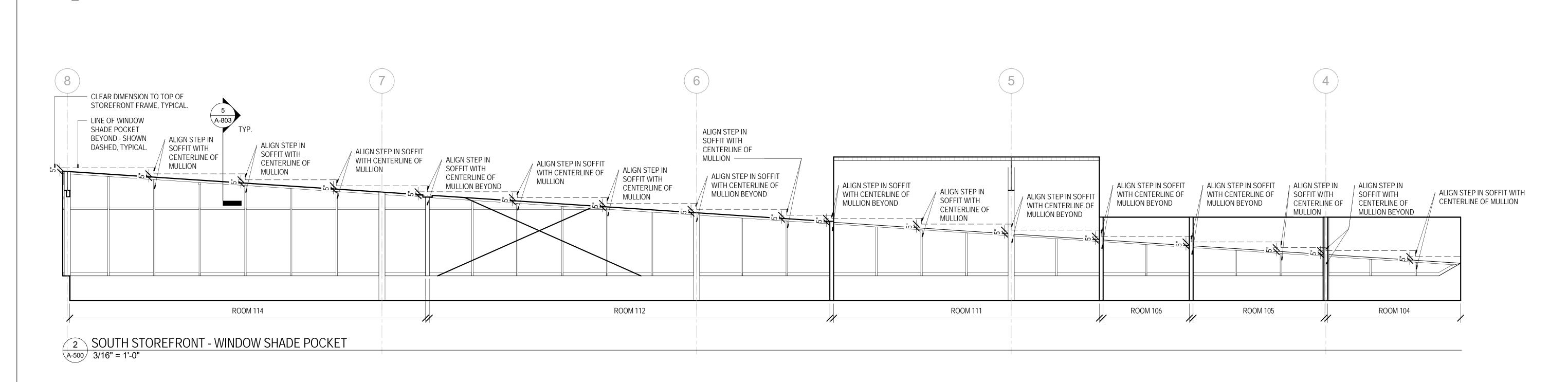




### FINISH LEGEND

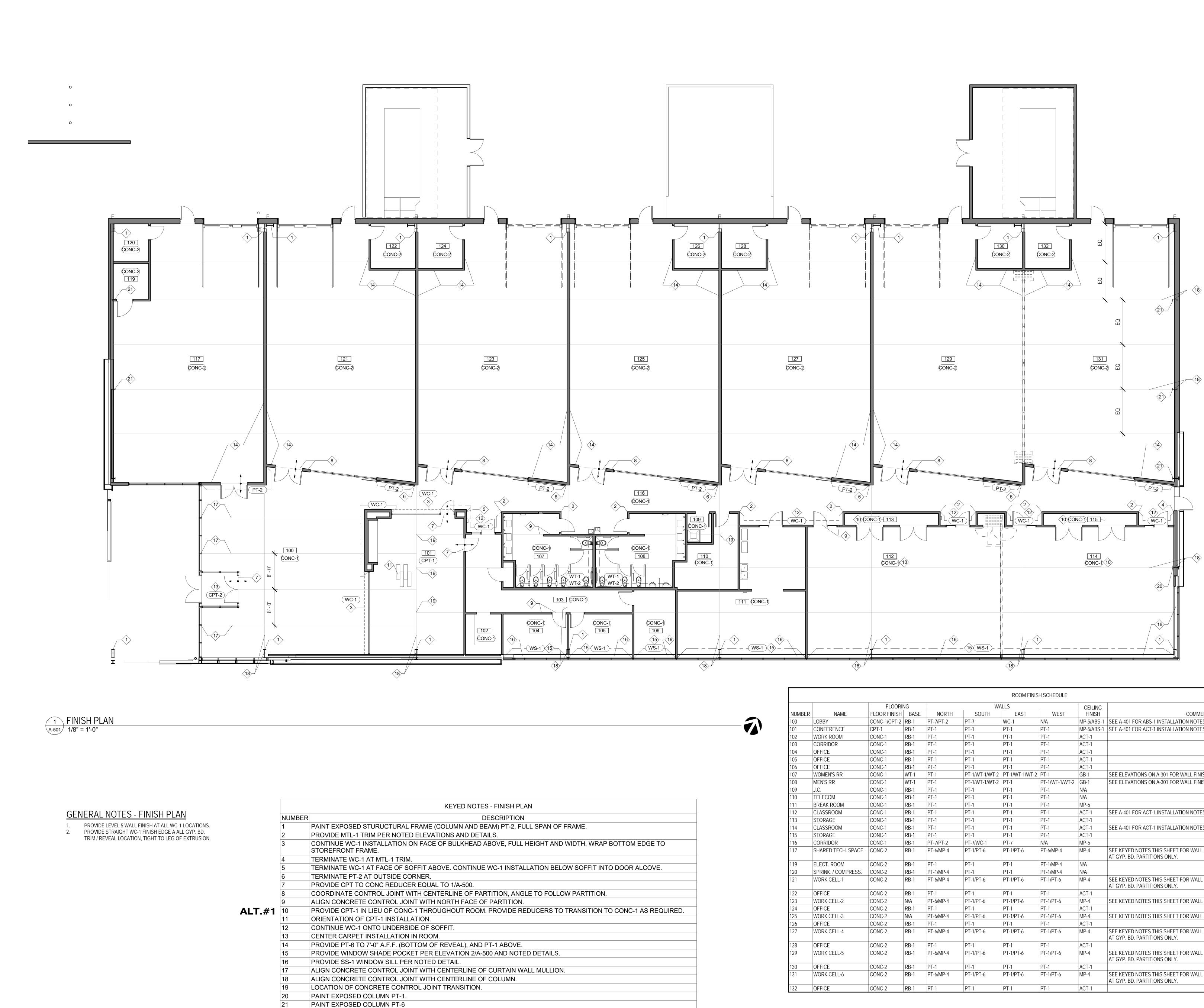
(ACT-1)	DESC: ACOUSTIC CEILING TILE MNF: USG STYLE: MARS #86985 EDGE: FLB	CONC-3	MNF: SCOFIELD PRODUCT: CHROMIX COLOR: LANDMARKS GRAY, #2543 NOTE: PROVIDE SAMPLE POUR FOR	MP-4	DESC: INT MNF: MBC STYLE: PE COLOR: S
(ABS-1)	COLOR: WHITE SIZE: 2'-0" X 2'-0" X 3/4" GRID: 9/16" CENTRICITEE DXT (WHITE) DESC: ACOUSTIC BAFFLE SYSTEM	CW-1	REVIEW AND APPROVAL. DESC: ALUMINUM CURTAINWALL SYSTEM MNF: TUBELITE PRODUCT: 400 TU SERIES 2-1/2" X 7-1/2"	MP-5	DESC: INT MNF: MBC STYLE: PE FINISH: G
	MNF: MDC STYLE: ZINTRA BAFFLE SYSTEM SYSTEM OPTION: STANDARD BAFFLE DEPTH: 5-1/2"	GB-1	FINISH: BLACK ANODIZED ALUMINUM DESCRIPTION: GYPSUM BOARD TYPE: 1/2"	(MTL-1)	DESC: ME TYPE: GA SIZE: 3/8"
	BAFFLE THICKNESS: 1/2" BAFFLE LENGTH: 4'-0" SYSTEM SIZE: 4'-0" X 4'-0" BAFFLE COLOR: PEWTER	GL-1	FINISH: PT-3, U.N.O. DESCRIPTION: 1" INSULATING GLAZING UNIT MNF: VITRO PRODUCT: SOLARBAN 60 (2) CLEAR + CLEAR	PL-1	DESC: PL/ MNF: WILS STYLE #: 4 COLOR: C
	FRAME COLOR: CLEAR SATIN ALUMINUM END CAP COLOR: BLACK SUSPENSION SYSTEM: AIRCRAFT CABLE	GL-2	1/4" CLEAR TEMPERED GLASS	(PL-2)	FINISH: LI
CMU-1	DESC: CONCRETE MASONRY UNIT MANUFACTURER: TRENWYTH	GL-3 (GT-1)	1/2" CLEAR TEMPERED GLASS DESC: GYP. BD. REVEAL	(FL-2)	DESC: PLA MNF: ARB STYLE #: 1
	STYLE: TRENDSTONE PLUS SIZE: 8X8X16 COLOR: LIMESTONE	GI-I	MNF: FRY REGLET STYLE: REVEAL CHANNEL SCREED SIZE: 1/2" HIGH, DCS-625-50		COLOR: C FINISH: C LOCATION
	MORTAR: SOLOMON COLORS, 60 WHITE FLUSH HORIZONTAL AND VERTICAL JOINTS		COLOR: T.B.D NOTE: PROVIDE PRE-MANUFACTURED INTERSECTIONS AS REQ'D.	(PT-1)	DESC: PA MNF: SHE COLOR: S LOCATION
(CMU-2)	DESC: CONCRETE MASONRY UNIT MANUFACTURER: TRENWYTH STYLE: TRENDSTONE PLUS SIZE: 4X8X16 COLOR: LIMESTONE	( <u>GT-2</u> )	DESC: GYP. BD. TRIM MNF: FRY REGLET STYLE: PROTRUDING EDGE PROFILE STYLE #: DRMPET-100 COLOR: T.B.D	(PT-2)	DESC: PA MNF: SHE COLOR: M LOCATION
	MORTAR: SOLOMON COLORS, 60 WHITE FLUSH HORIZONTAL AND VERTICAL JOINTS		NOTE: PROVIDE PRE-MANUFACTURED CORNERS AS REQ'D.	(PT-3)	DESC: PA MNF: SHE
CPT-1	DESC: MODULAR CARPET TILE MNF: INTERFACE	(GT-3)	DESC: GYP. BD. TRIM MNF: FRY REGLET		COLOR: S
	COLLECTION: BIKE PATH BP411 STYLE #: 146860AK00		STYLE: PROTRUDING EDGE PROFILE STYLE #: DRMPET-375 COLOR: T.B.D	PT-4	NOT USEI
	COLOR: 104663 EMBER/RED INSTALLATION: ASHLAR SIZE: 9.84" X 39.37" (25CM X 1M)		NOTE: PROVIDE PRE-MANUFACTURED CORNERS AS REQ'D.	(PT-5)	DESC: PA MNF: SHE COLOR: S
CPT-2	DESC: MODULAR CARPET TILE MNF: INTERFACE	( <u>HW-1</u> )	DESC: HARDWARE PULL MNF: LIBERTY HARDWARE COLLECTION: AVANTE	(PT-6)	DOORS A DESC: PA
	COLLECTION: STEP REPEAT SR899 STYLE #: 1388602500 COLOR: 104940 IRON		STYLE: MODERN PULL 6 5/16", #62319DC FINISH: DULL CHROME		MNF: SCU PRODUCT COLOR: N
	INSTALLATION: MONOLITHIC SIZE: 19.68" x 19.68" (50CM x 50CM)	( <u>MP-1</u> )	DESC: STANDING SEAM METAL PANEL MNF: MBCI STYLE: BATTENLOK HS		R LOCATION
CONC-1	MNF: ADVANCED FLOOR PRODUCTS PRODUCT: RETRO-PLATE 99	(MP-2)	COLOR: SIG. 200, CHARCOAL GRAY DESC: COMPOSITE METAL PANEL	(PT-7)	DESC: PA MNF: SCU PRODUCT
	COLOR: CUSTOM TO MATCH RANKEN WENTZVILLE; SIMILAR TO AMERIPOLISH "MIDNIGHT BLACK" FINISH: RETRO GUARD		MNF: REYNOBOND STYLE: DURAGLOSS 3000 COLOR: CLASSIC RED		COLOR: N R LOCATION
CONC-2	NOTE: PROVIDE SAMPLE POUR FOR COLOR REVIEW AND APPROVAL MNF: TNEMEC	(MP-3)	DESC: PERFORATED METAL PANEL MNF: HENDRICK MATERIAL: ALUMINUM		
	PRODUCT: POWERTREAD COLOR: 31GR SLATE GRAY		THICKNESS: 0.190" PERFORATION: 0.375" DIA. ON 0.5625" STAG. CTR. COLOR: CLEAR ANNODIZED (70) NOTE: SEE NOTED ELEVATIONS FOR PANEL SIZE AND DETAILS.		





DESC: INTERIOR LINER PANEL MNF: MBCI STYLE: PBU COLOR: SIG. 200, SOLAR WHITE DESC: INTERIOR LINER PANEL MNF: MBCI STYLE: PBU INISH: GALVANIZED DESC: METAL TRIM TYPE: GALVANIZED STEEL BAR SIZE: 3/8" X 4" DESC: PLASTIC LAMINATE MNF: WILSONART STYLE #: 4941K-18	PT-8 (RB-1) (SF-1) (SS-1)	NOT USED. DESC: WALL BASE MNF: JOHNSONITE SIZE: 4" HIGH STYLE: STRAIGHT BASE COLOR: 40 BLACK DESC: ALUMINUM STOREFRONT SYSTEM MNF: TUBELITE PRODUCT: 14000 SERIES 2" X 4 1/2" FINISH: BLACK ANODIZED ALUMINUM DESC: SOLID SURFACE MNF: WILSONART COLOR: YUKON RIVERSTONE LOCATION: CONFERENCE ROOM COUNTERTOP &
COLOR: COSMIC STRANDZ INISH: LINEARITY FINISH WITH AEON OCATION: MILLWORK VERTICAL SURFACES DESC: PLASTIC LAMINATE INF: ARBORITE STYLE #: S-577 CA	SS-2	WINDOW SILLS DESC: SOLID SURFACE MNF: CORIAN COLOR: DEEP SPACE LOCATION: BREAK ROOM COUNTERTOP
COLOR: GRAPHITE COLOR: GRAPHITE INISH: CASHMERE OCATION: WORK ROOM COUNTERTOP DESC: PAINT INF: SHERWIN-WILLIAMS COLOR: SW7656 RHINESTONE OCATION: GENERAL WALL PAINT DESC: PAINT INF: SHERWIN-WILLIAMS COLOR: MATCH RAL 3001 OCATION: ACCENT PAINT / STEEL STRUCTURE	WC-1	DESC: WALL COVERING MNF: 3M COLLECTION: DI-NOC STYLE: FINE WOOD COLOR: FW-1258 SIZE: 48" WIDE CONTACT: DESIGNTEX, GLENDA JEHLE, 314-922-6590 INSTALLER: VINYL IMAGES, MATT HOLLENBERG, 636-253-4308 INSTALLATION NOTE: TAKE CARE TO NOT HAVE ADJACENT REPEAT GRAIN PATTERNS
DESC: PAINT INF: SHERWIN-WILLIAMS COLOR: SW7007 - CEILING BRIGHT WHITE OCATION: GENERAL CEILING / DECK PAINT IOT USED. DESC: PAINT INF: SHERWIN-WILLIAMS	WS-1	DESC: WINDOW SHADE MNF: SWF CONTRACT TYPE: SINGLE MANUAL SOLAR SHADE STYLE: TRUE PERFORMANCE FABRIC STYLE: CROSSHATCH S300 (3% OPEN) FABRIC COLOR: EBONY C8208 FASCIA HEIGHT: 3" FASCIA COLOR: 939 BLACK
COLOR: SW6258 - TRICORN BLACK LOCATION: HM DOORS AND FRAMES DESC: PAINT INF: SCUFFMASTER PRODUCT: ARMOR COLOR: MATCH SHERWIN WILLIAMS SW 7656 RHINESTONE OCATION: WORK CELLS TO 7'-0" A.F.F.	WT-1	DESC: WALL TILE MNF: INTERCERAMICS COLLECTION: WALL TILE COLLECTION STYLE: FIELD TILE COLOR: ULTRA WHITE FINISH: BRITE INSTALLATION: BRICK GROUT: ARDEX WA- BRILLIANT WHITE - 35, 1/8" MAX. SIZE: 4-1/4"X12-3/4"
DESC: PAINT INF: SCUFFMASTER PRODUCT: SCRUBTOUGH COLOR: MATCH SHERWIN WILLIAMS SW 7656 RHINESTONE OCATION: LOBBY AND CORRIDOR	WT-2	DESC: WALL TILE MNF: INTERCERAMICS COLLECTION: WALL TILE COLLECTION STYLE: SINGLE BULLNOSE TRIM COLOR: ULTRA WHITE FINISH: BRITE INSTALLATION: BRICK GROUT: ARDEX WA - BRILLIANT WHITE - 35, 1/8" MAX. SIZE: 4-1/4"X12-3/4"

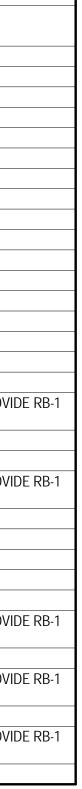
Ü  $(\mathbf{0})$ ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM <u>CIVIL</u> CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTÁCT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: Author PROJECT NUMBER: 18-1260.00 SHEET TITLE: FINISH LEGEND & DETAILS

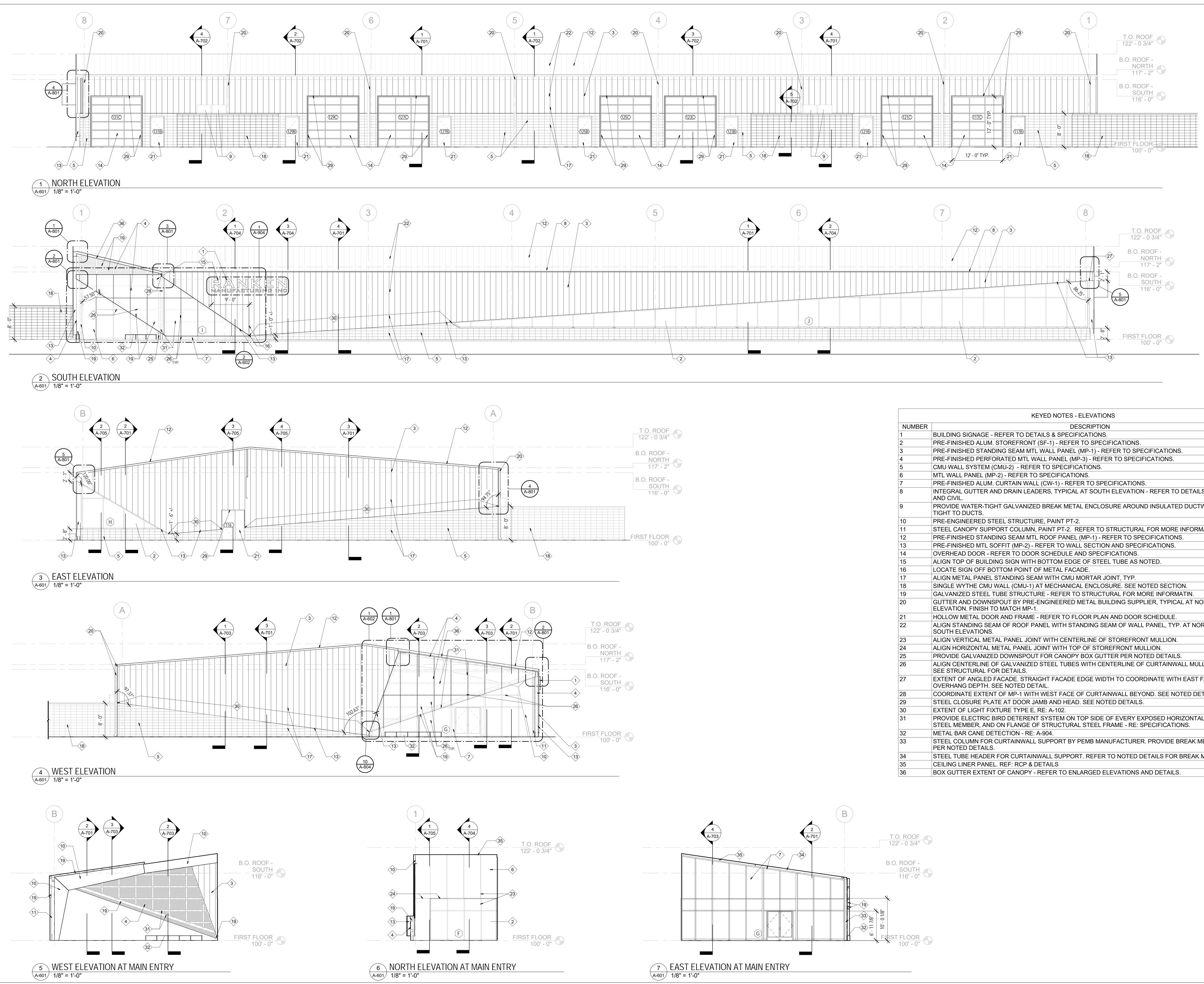


KEYED NOTES - FINISH PLAN
DESCRIPTION
URUCTURAL FRAME (COLUMN AND BEAM) PT-2, FULL SPAN OF FRAME.
M PER NOTED ELEVATIONS AND DETAILS.
STALLATION ON FACE OF BULKHEAD ABOVE, FULL HEIGHT AND WIDTH. WRAP BOTTOM EDGE TO IE.
T MTL-1 TRIM.
T FACE OF SOFFIT ABOVE. CONTINUE WC-1 INSTALLATION BELOW SOFFIT INTO DOOR ALCOVE.
OUTSIDE CORNER.
DNC REDUCER EQUAL TO 1/A-500.
ROL JOINT WITH CENTERLINE OF PARTITION, ANGLE TO FOLLOW PARTITION.
CONTROL JOINT WITH NORTH FACE OF PARTITION.
IEU OF CONC-1 THROUGHOUT ROOM. PROVIDE REDUCERS TO TRANSITION TO CONC-1 AS REQUIRED.
PT-1 INSTALLATION.
TO UNDERSIDE OF SOFFIT.
STALLATION IN ROOM.
-0" A.F.F. (BOTTOM OF REVEAL), AND PT-1 ABOVE.
SHADE POCKET PER ELEVATION 2/A-500 AND NOTED DETAILS.
OOW SILL PER NOTED DETAIL.
ONTROL JOINT WITH CENTERLINE OF CURTAIN WALL MULLION.
ONTROL JOINT WITH CENTERLINE OF COLUMN.
RETE CONTROL JOINT TRANSITION.
LUMN PT-1.
LUMN PT-6

					ROOM FINIS	H SCHEDULE		
	FLOORING		WALLS				CEILING	
NAME	FLOOR FINISH	BASE	NORTH	SOUTH	EAST	WEST	FINISH	COMMENTS
BBY	CONC-1/CPT-2	RB-1	PT-7/PT-2	PT-7	WC-1	N/A	MP-5/ABS-1	SEE A-401 FOR ABS-1 INSTALLATION NOTES.
NFERENCE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	MP-5/ABS-1	SEE A-401 FOR ACT-1 INSTALLATION NOTES.
rk room	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RRIDOR	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
ICE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
ICE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
ICE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
MEN'S RR	CONC-1	WT-1	PT-1	PT-1/WT-1/WT-2	PT-1/WT-1/WT-2	PT-1	GB-1	SEE ELEVATIONS ON A-301 FOR WALL FINISH NOTES.
N'S RR	CONC-1	WT-1	PT-1	PT-1/WT-1/WT-2	PT-1	PT-1/WT-1/WT-2	GB-1	SEE ELEVATIONS ON A-301 FOR WALL FINISH NOTES.
	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
ECOM	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
TAK ROOM	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	MP-5	
SSROOM	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE A-401 FOR ACT-1 INSTALLATION NOTES.
RAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
SSROOM	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE A-401 FOR ACT-1 INSTALLATION NOTES.
RAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RRIDOR	CONC-1	RB-1	PT-7/PT-2	PT-7/WC-1	PT-7	N/A	MP-5	
RED TECH. SPACE	CONC-2	RB-1	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-6/MP-4	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION. PROVIDE AT GYP. BD. PARTITIONS ONLY.
CT. ROOM	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1/MP-4	N/A	
RINK. / COMPRESS.	CONC-2	RB-1	PT-1/MP-4	PT-1	PT-1	PT-1/MP-4	N/A	
RK CELL-1	CONC-2	RB-1	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION. PROVIDE AT GYP. BD. PARTITIONS ONLY.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RK CELL-2	CONC-2	N/A	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RK CELL-3	CONC-2	N/A	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RK CELL-4	CONC-2	RB-1	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION. PROVIDE AT GYP. BD. PARTITIONS ONLY.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RK CELL-5	CONC-2	RB-1	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION. PROVIDE AT GYP. BD. PARTITIONS ONLY.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
RK CELL-6	CONC-2	RB-1	PT-6/MP-4	PT-1/PT-6	PT-1/PT-6	PT-1/PT-6	MP-4	SEE KEYED NOTES THIS SHEET FOR WALL FINISH INFORMATION. PROVIDE AT GYP. BD. PARTITIONS ONLY.
ICE	CONC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	

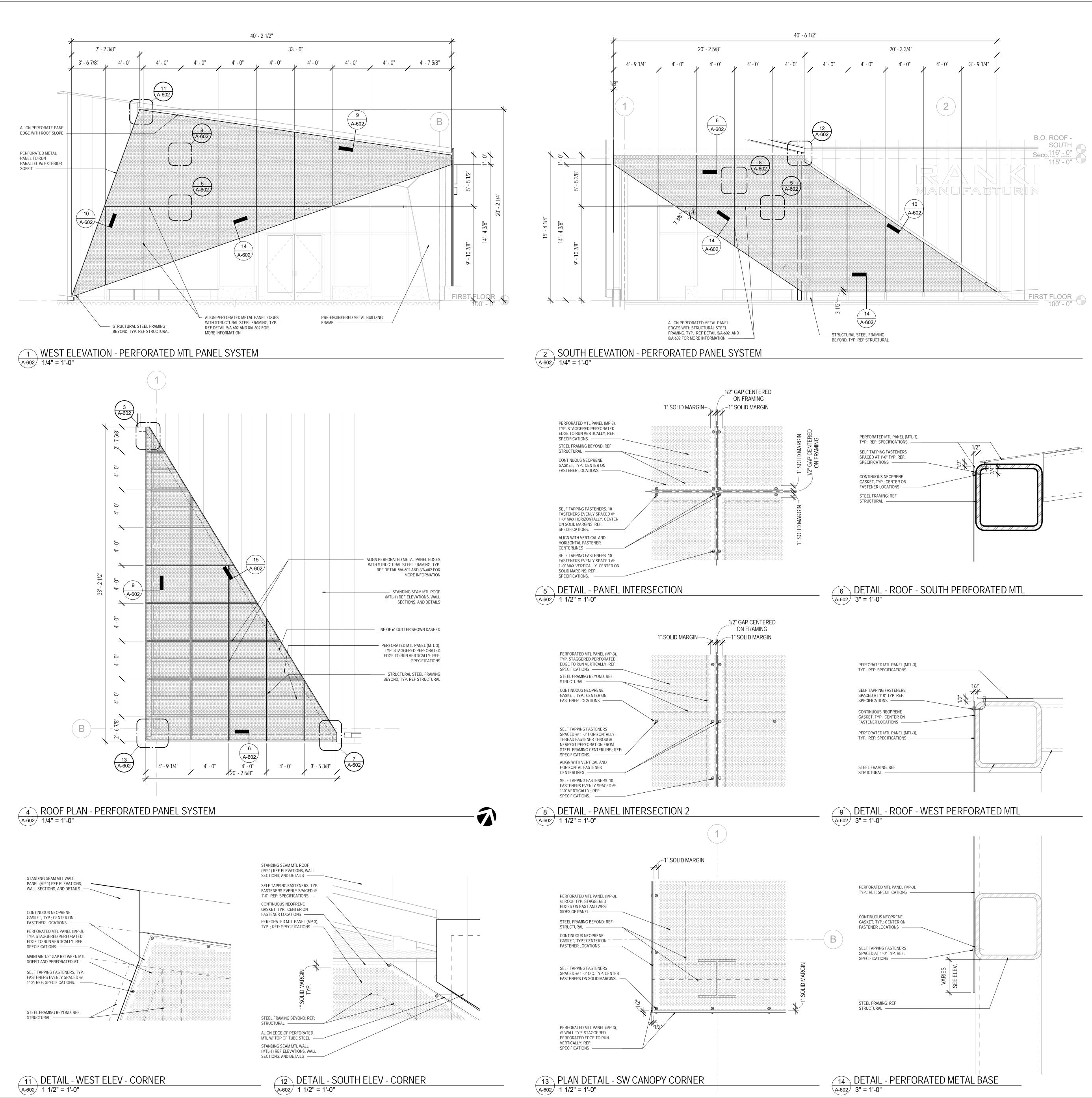


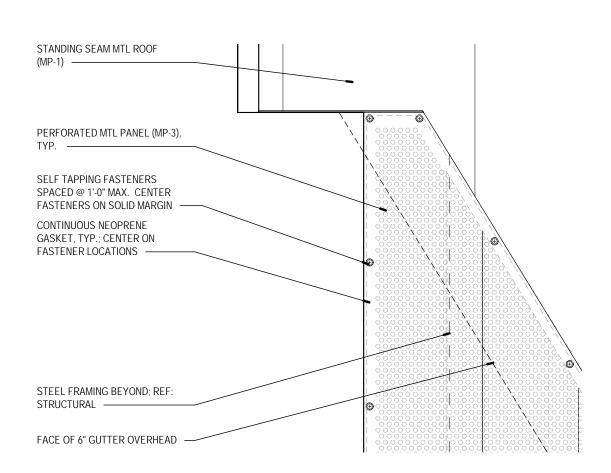




	KEYED NOTES - ELEVATIONS
NUMBER	DESCRIPTION
1	BUILDING SIGNAGE - REFER TO DETAILS & SPECIFICATIONS.
2	PRE-FINISHED ALUM. STOREFRONT (SF-1) - REFER TO SPECIFICATIONS.
3	PRE-FINISHED STANDING SEAM MTL WALL PANEL (MP-1) - REFER TO SPECIFICATIONS.
4	PRE-FINISHED PERFORATED MTL WALL PANEL (MP-3) - REFER TO SPECIFICATIONS.
5	CMU WALL SYSTEM (CMU-2) - REFER TO SPECIFICATIONS.
6	MTL WALL PANEL (MP-2) - REFER TO SPECIFICATIONS.
7	PRE-FINISHED ALUM. CURTAIN WALL (CW-1) - REFER TO SPECIFICATIONS.
8	INTEGRAL GUTTER AND DRAIN LEADERS, TYPICAL AT SOUTH ELEVATION - REFER TO DETAILS, PLU AND CIVIL.
9	PROVIDE WATER-TIGHT GALVANIZED BREAK METAL ENCLOSURE AROUND INSULATED DUCTWORK TIGHT TO DUCTS.
10	PRE-ENGINEERED STEEL STRUCTURE, PAINT PT-2.
11	STEEL CANOPY SUPPORT COLUMN, PAINT PT-2. REFER TO STRUCTURAL FOR MORE INFORMATION
12	PRE-FINISHED STANDING SEAM MTL ROOF PANEL (MP-1) - REFER TO SPECIFICATIONS.
13	PRE-FINISHED MTL SOFFIT (MP-2) - REFER TO WALL SECTION AND SPECIFICATIONS.
14	OVERHEAD DOOR - REFER TO DOOR SCHEDULE AND SPECIFICATIONS.
15	ALIGN TOP OF BUILDING SIGN WITH BOTTOM EDGE OF STEEL TUBE AS NOTED.
16	LOCATE SIGN OFF BOTTOM POINT OF METAL FACADE.
17	ALIGN METAL PANEL STANDING SEAM WITH CMU MORTAR JOINT, TYP.
18	SINGLE WYTHE CMU WALL (CMU-1) AT MECHANICAL ENCLOSURE. SEE NOTED SECTION.
19	GALVANIZED STEEL TUBE STRUCTURE - REFER TO STRUCTURAL FOR MORE INFORMATIN.
20	GUTTER AND DOWNSPOUT BY PRE-ENGINEERED METAL BUILDING SUPPLIER, TYPICAL AT NORTH ELEVATION. FINISH TO MATCH MP-1.
21	HOLLOW METAL DOOR AND FRAME - REFER TO FLOOR PLAN AND DOOR SCHEDULE.
22	ALIGN STANDING SEAM OF ROOF PANEL WITH STANDING SEAM OF WALL PANEL, TYP. AT NORTH AI SOUTH ELEVATIONS.
23	ALIGN VERTICAL METAL PANEL JOINT WITH CENTERLINE OF STOREFRONT MULLION.
24	ALIGN HORIZONTAL METAL PANEL JOINT WITH TOP OF STOREFRONT MULLION.
25	PROVIDE GALVANIZED DOWNSPOUT FOR CANOPY BOX GUTTER PER NOTED DETAILS.
26	ALIGN CENTERLINE OF GALVANIZED STEEL TUBES WITH CENTERLINE OF CURTAINWALL MULLION E SEE STRUCTURAL FOR DETAILS.
27	EXTENT OF ANGLED FACADE. STRAIGHT FACADE EDGE WIDTH TO COORDINATE WITH EAST FACAD OVERHANG DEPTH. SEE NOTED DETAIL.
28	COORDINATE EXTENT OF MP-1 WITH WEST FACE OF CURTAINWALL BEYOND. SEE NOTED DETAIL.
29	STEEL CLOSURE PLATE AT DOOR JAMB AND HEAD. SEE NOTED DETAILS.
30	EXTENT OF LIGHT FIXTURE TYPE E, RE: A-102.
31	PROVIDE ELECTRIC BIRD DETERENT SYSTEM ON TOP SIDE OF EVERY EXPOSED HORIZONTAL AND STEEL MEMBER, AND ON FLANGE OF STRUCTURAL STEEL FRAME - RE: SPECIFICATIONS.
32	METAL BAR CANE DETECTION - RE: A-904.
33	STEEL COLUMN FOR CURTAINWALL SUPPORT BY PEMB MANUFACTURER. PROVIDE BREAK METAL I PER NOTED DETAILS.
34	STEEL TUBE HEADER FOR CURTAINWALL SUPPORT. REFER TO NOTED DETAILS FOR BREAK METAL
35	CEILING LINER PANEL. REF: RCP & DETAILS
36	BOX GUTTER EXTENT OF CANOPY - REFER TO ENLARGED ELEVATIONS AND DETAILS.







3 PLAN DETAIL - NW CANOPY CORNER A-602 1 1/2" = 1'-0"

SELF TAPPING FASTENERS SPACED @ 1'-0" MAX. CENTER

FASTENERS ON SOLID MARGIN -

FACE OF 6" GUTTER OVERHEAD -

APPROXIMATE LOCATION OF 5"

GALVANIZED DOWNSPOUT -----

PERFORATED MTL PANEL (MP-3),

STEEL FRAMING BEYOND; REF:

CONTINUOUS NEOPRENE

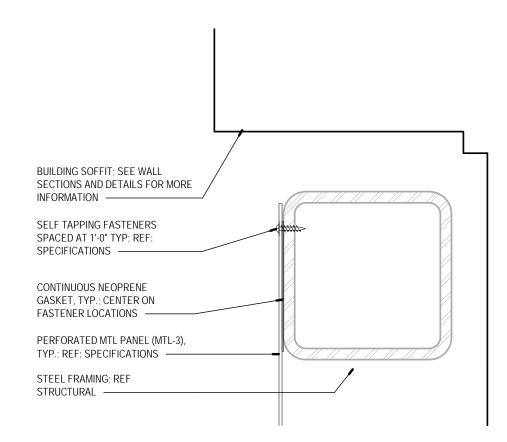
GASKET, TYP.; CENTER ON

FASTENER LOCATIONS

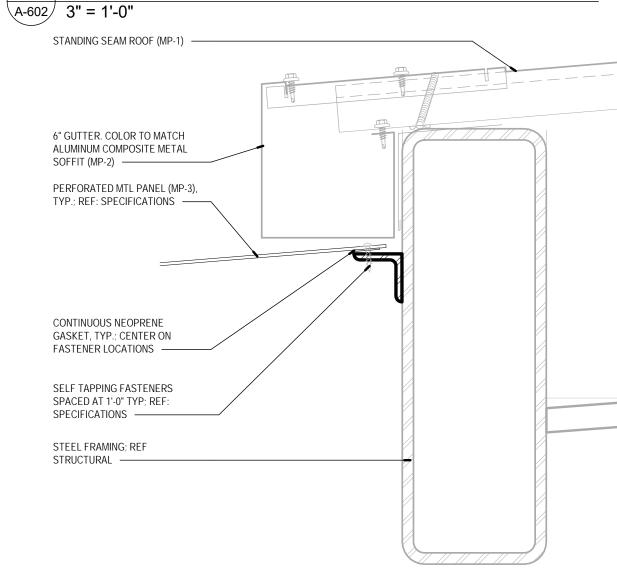
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STRUCTURAL ——

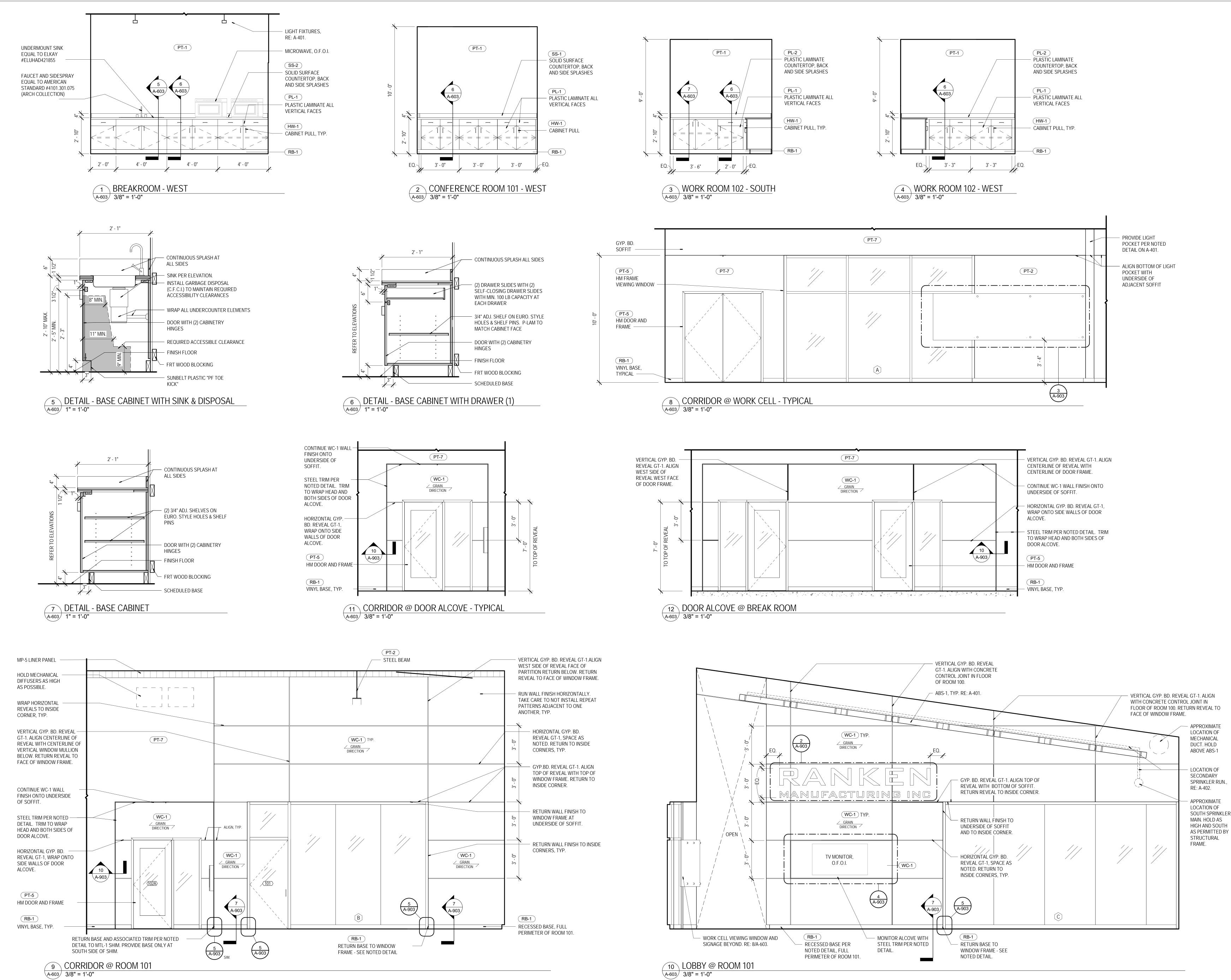
# 7 PLAN DETAIL - SE CANOPY CORNER A-602 1 1/2" = 1'-0"



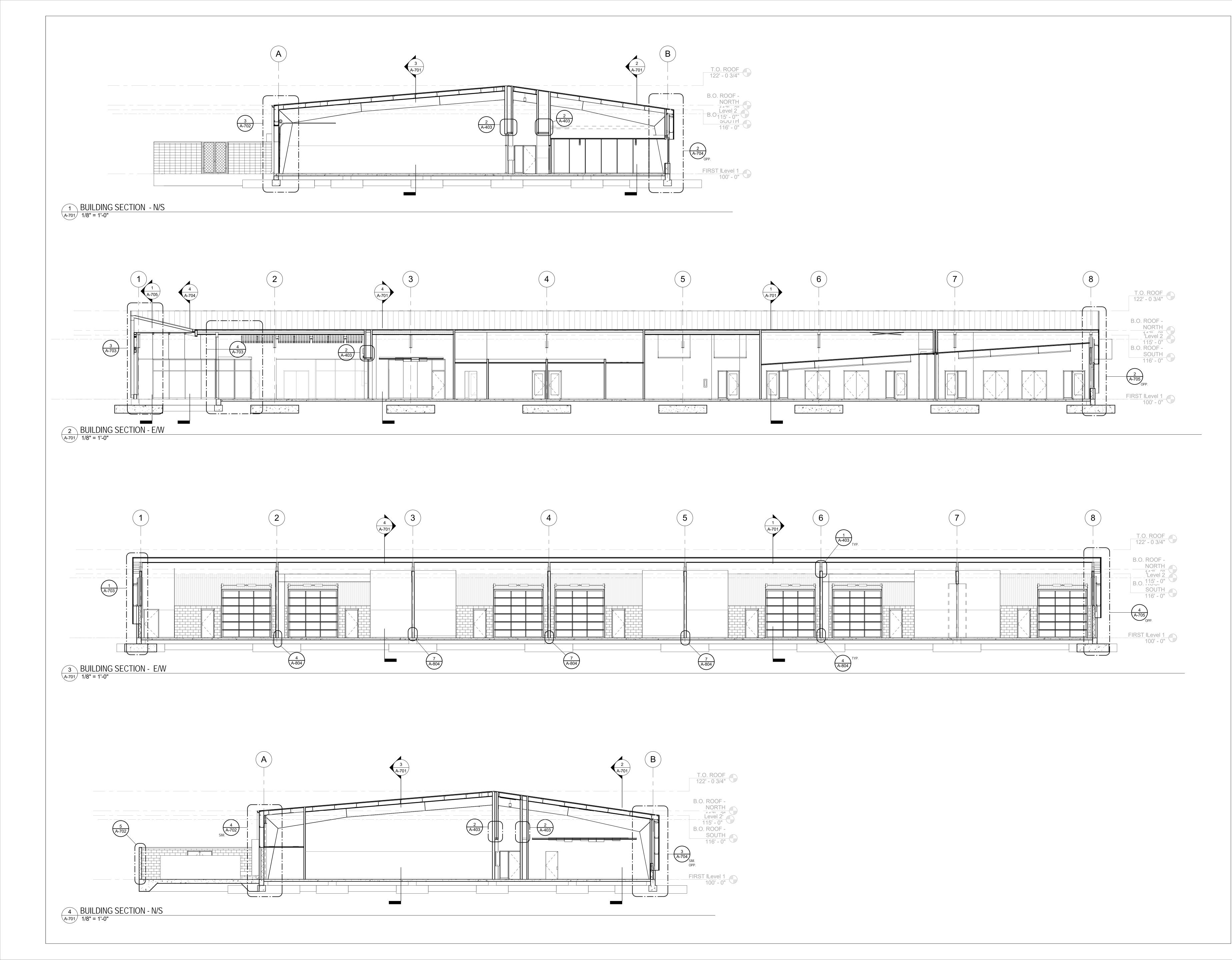
### (10) DETAIL - PERFORATED MTL @ SOFFIT



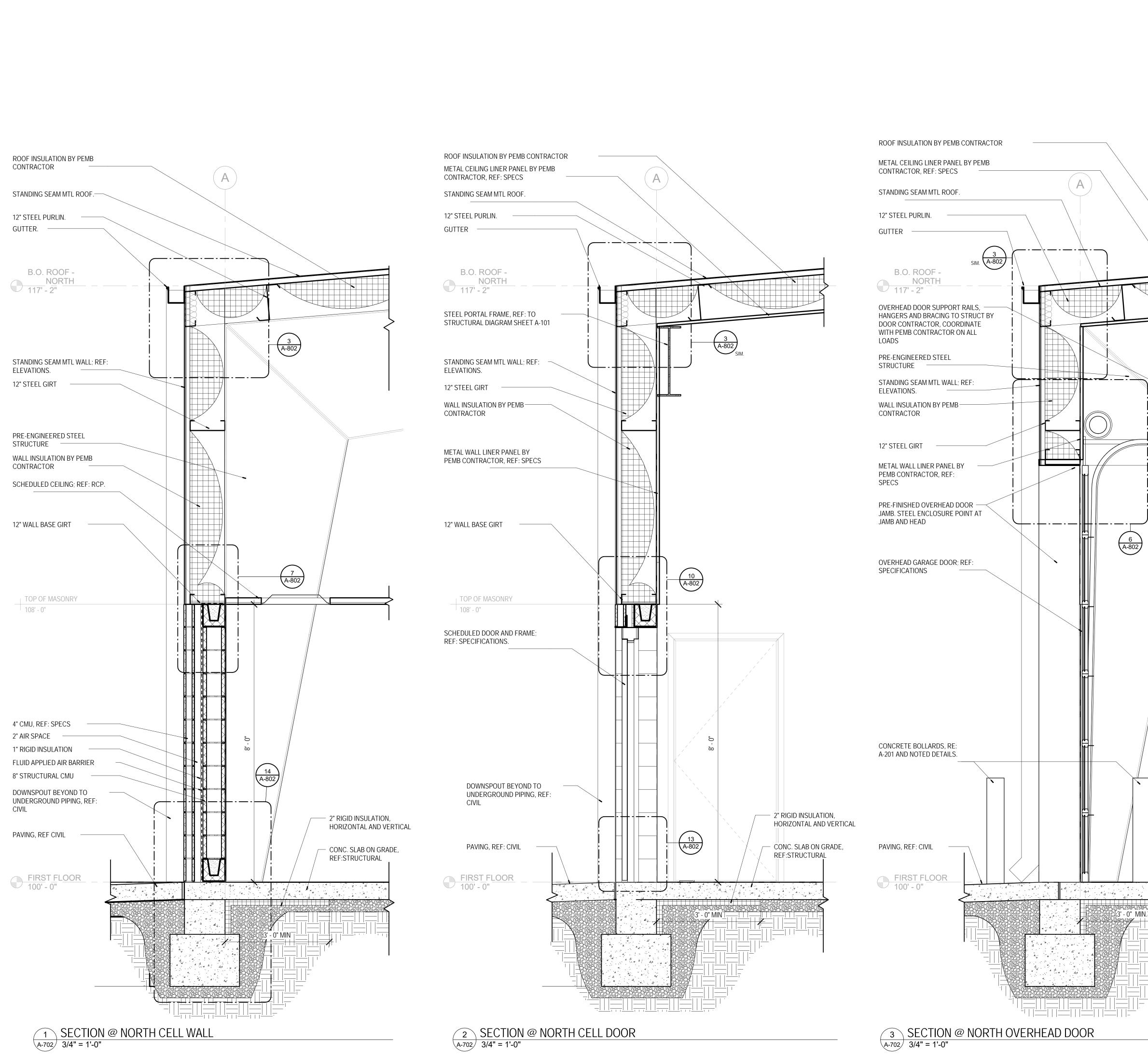
<b>RADAR DALE BE N</b> TECHNICALLEGE MANUFACTURING INC. 4301 FINNEY AVE. 57. LOUIS MO 63113
ARCHITECT:
ARCHITECT-OF-RECORD JEMAMO CERTIFICATE OF AUTHORITY A20140083803005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COMCIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774
MO CERTIFICATE OF AUTHORITY A2014008380       No.     Date       Description
06/22/18 EDA REVIEW 06/28/18 ISSUED FOR BID
PROJECT NUMBER: 18-1260.00
SHEET TITLE: ELEVATIONS - ENLARGED EXTERIOR & DETAILS A-602

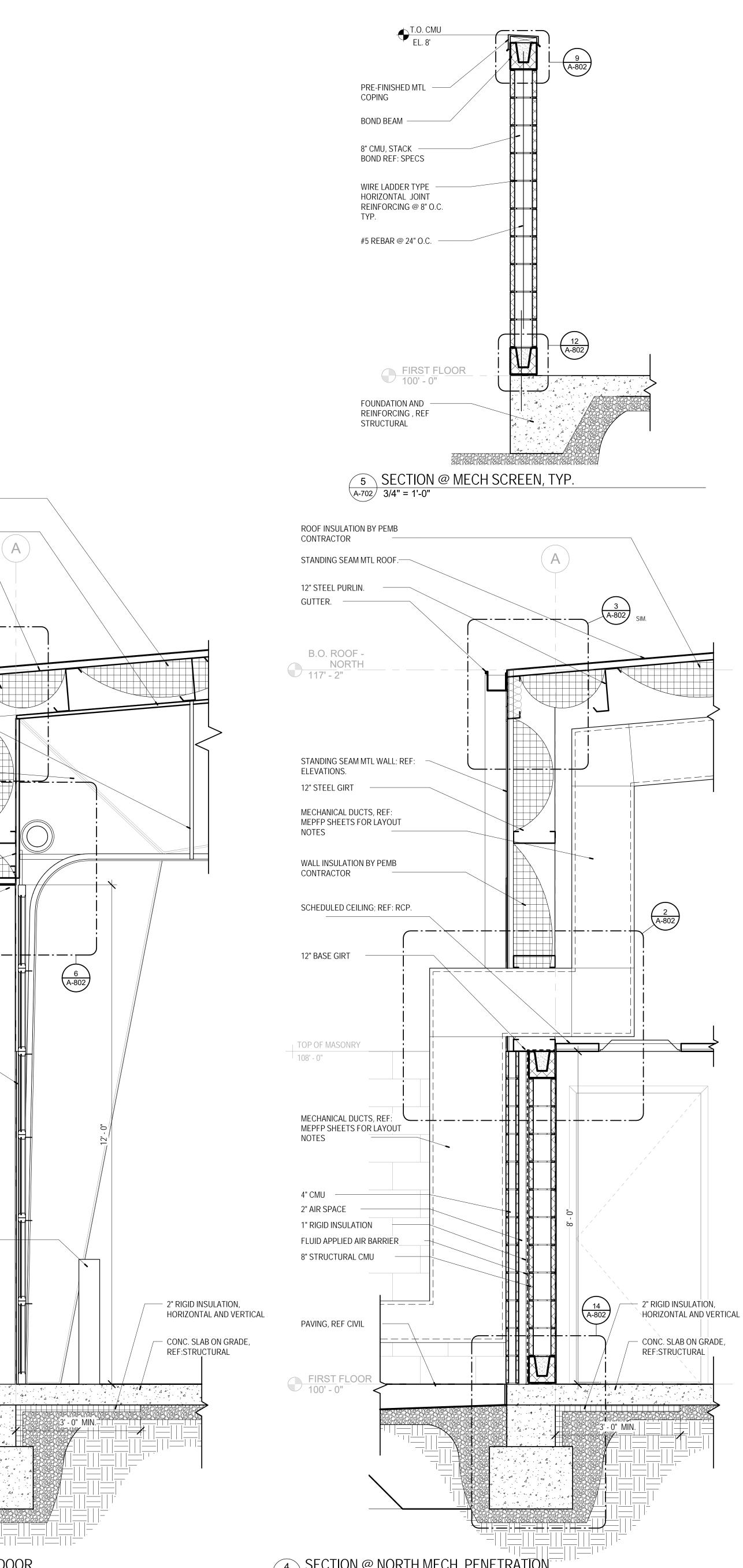


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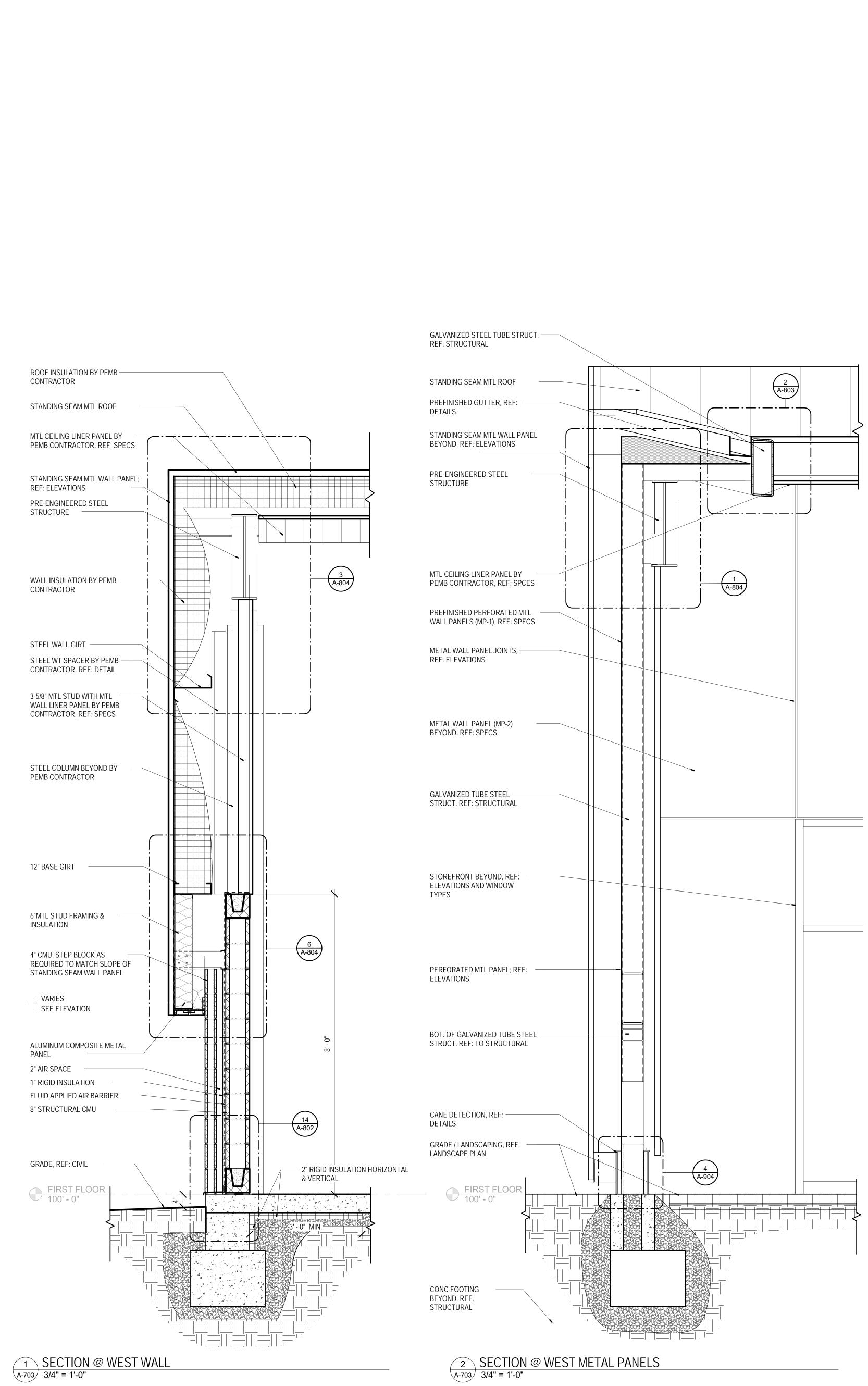
Ü က C Ο 43( ST ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM <u>CIVIL</u> CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTÁCT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM LANDSCAPE DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTÁCT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: MB PROJECT NUMBER: **18-1260.00** SHEET TITLE: SECTIONS - BUILDING -701 A-/

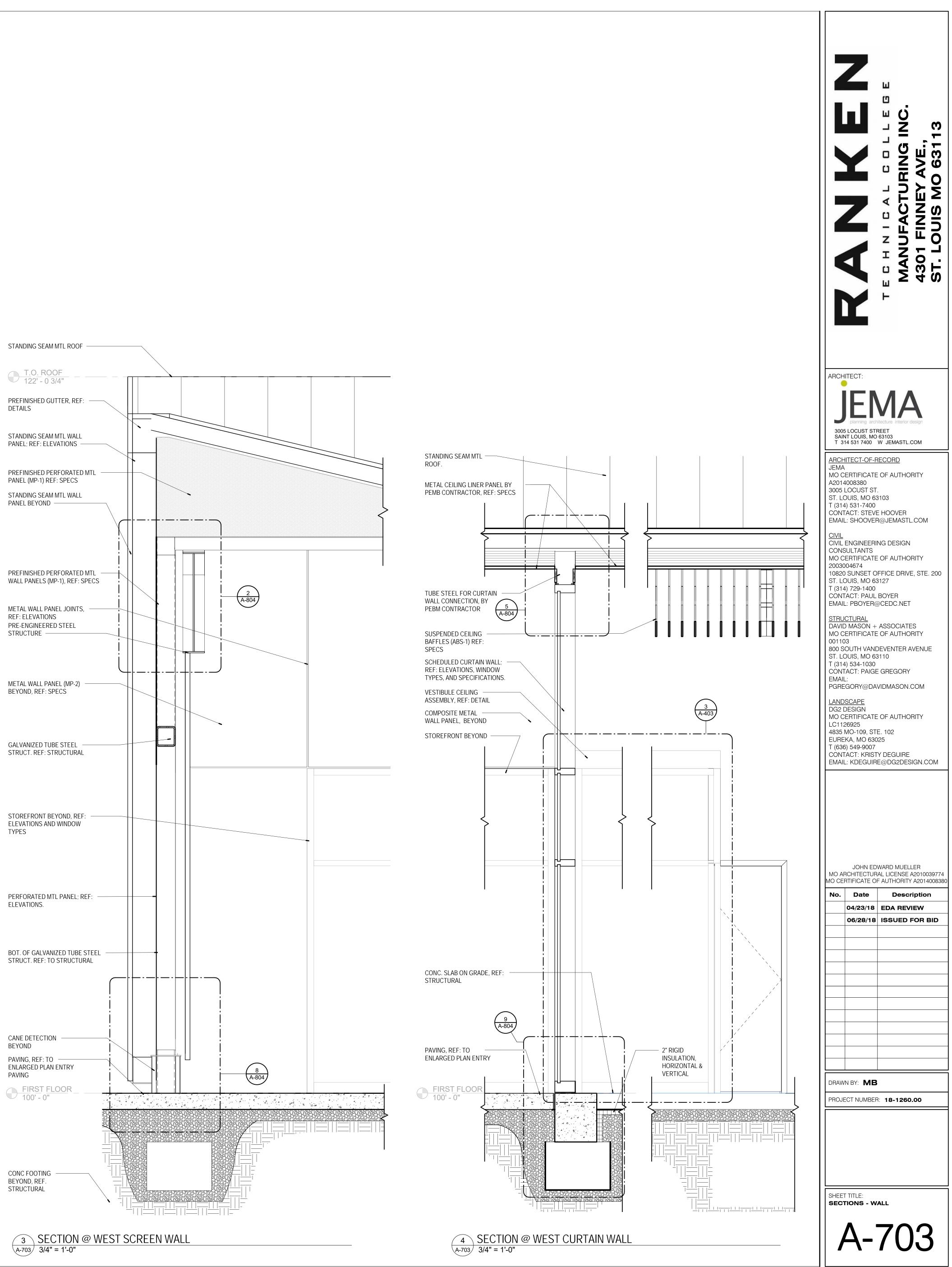




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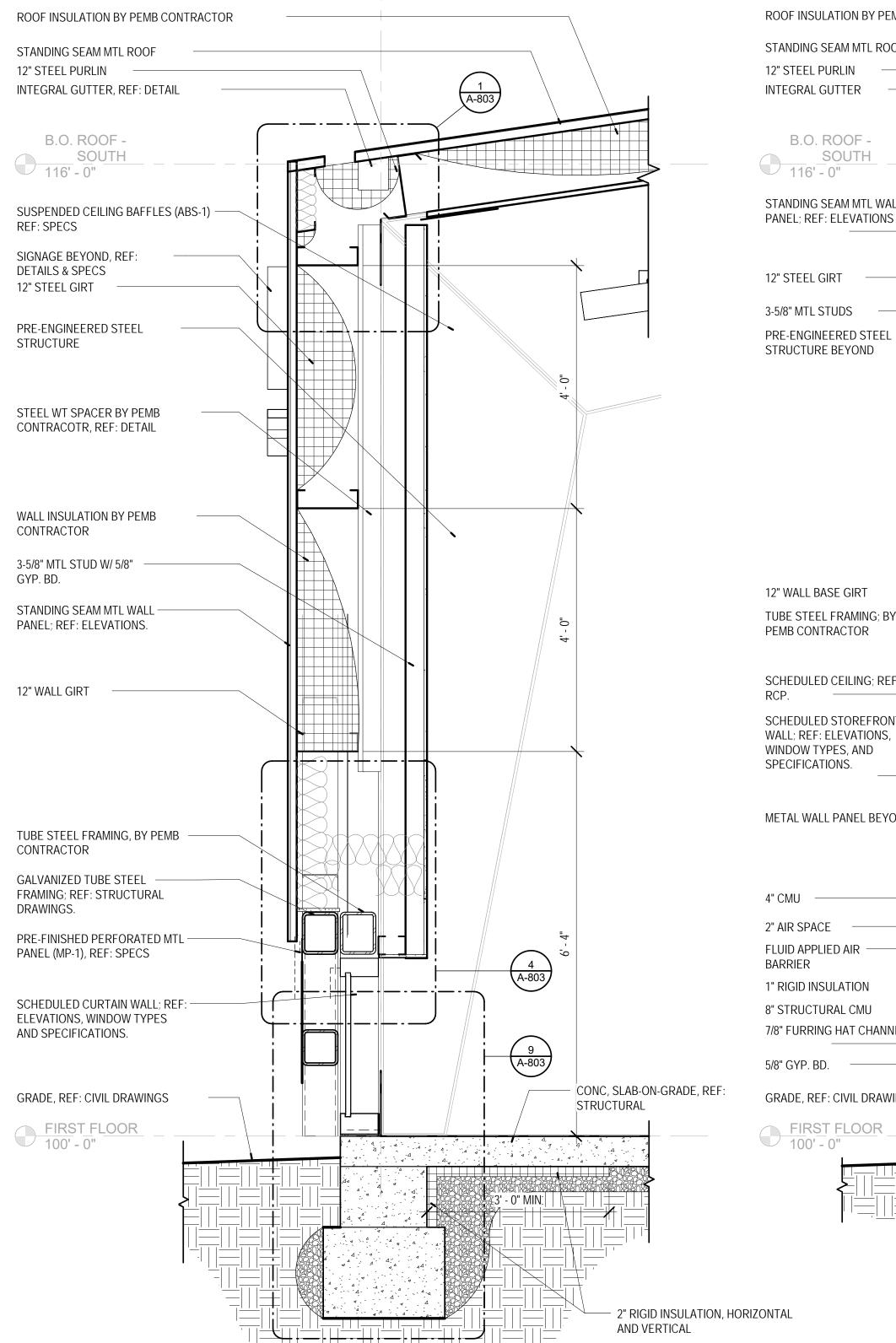
()ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/10/08 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: MB PROJECT NUMBER: 18-1260.00 SHEET TITLE: SECTIONS - WALL A-702







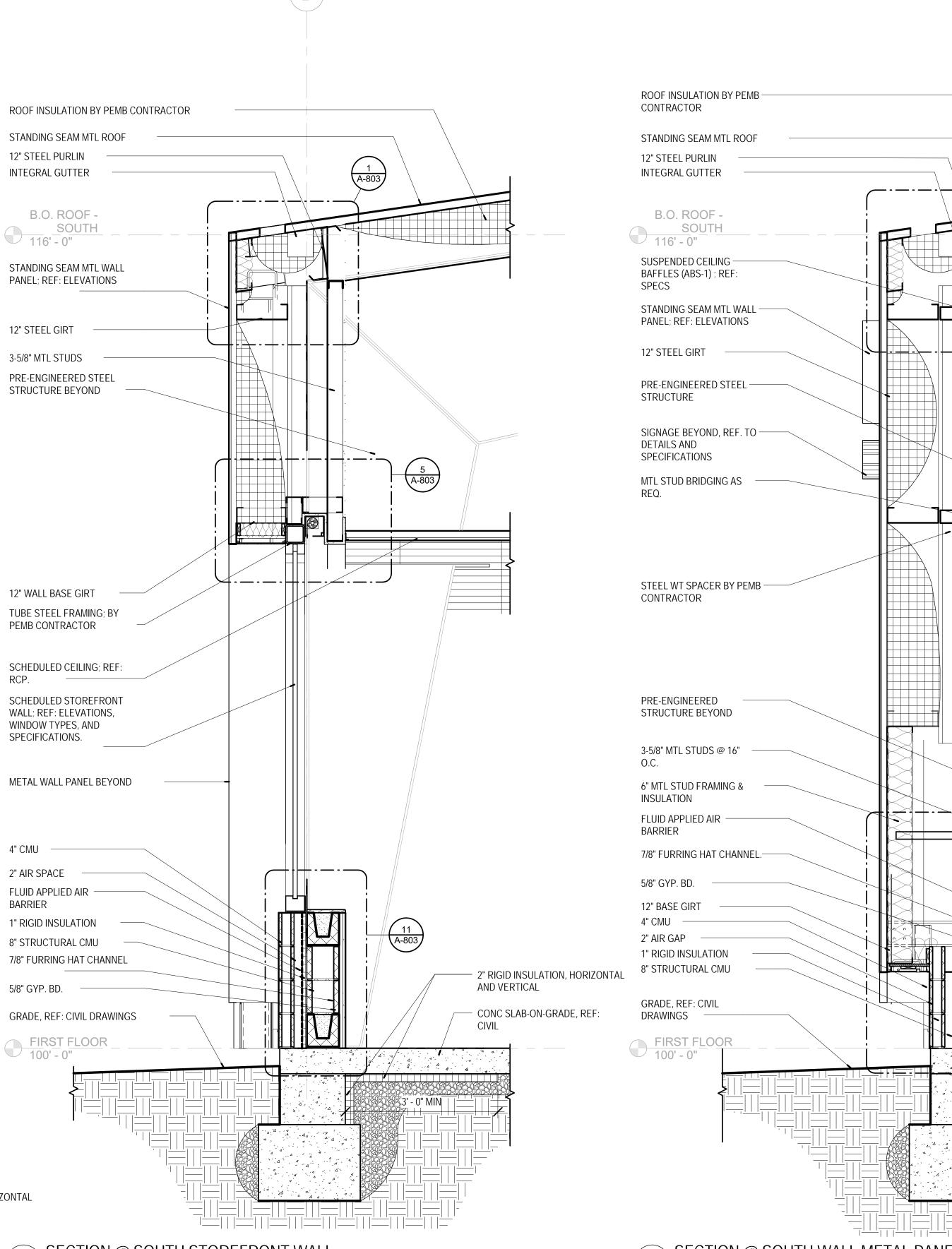




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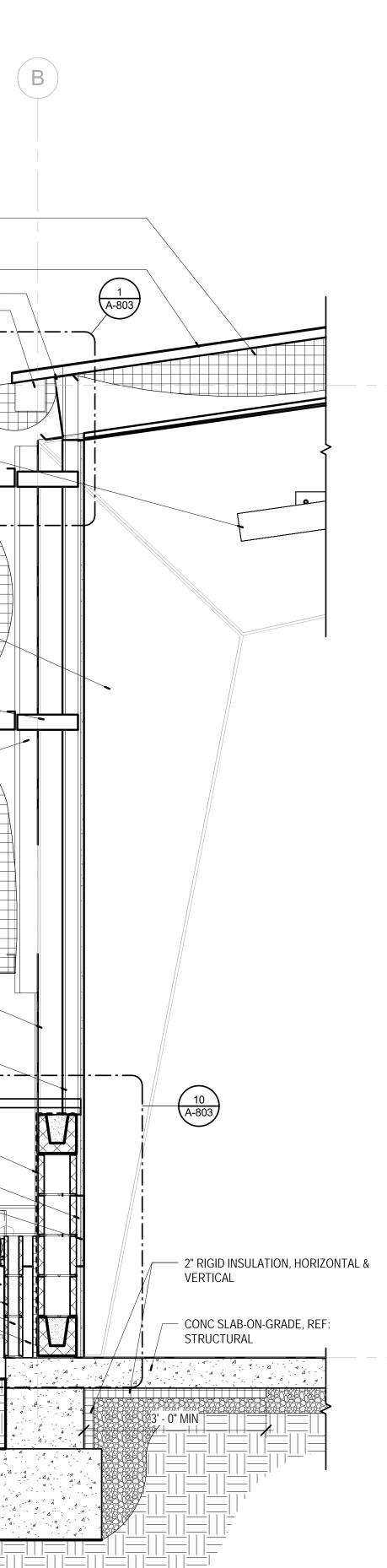
2 SECTION @ SOUTH STOREFRONT WALL A-704 3/4" = 1'-0"

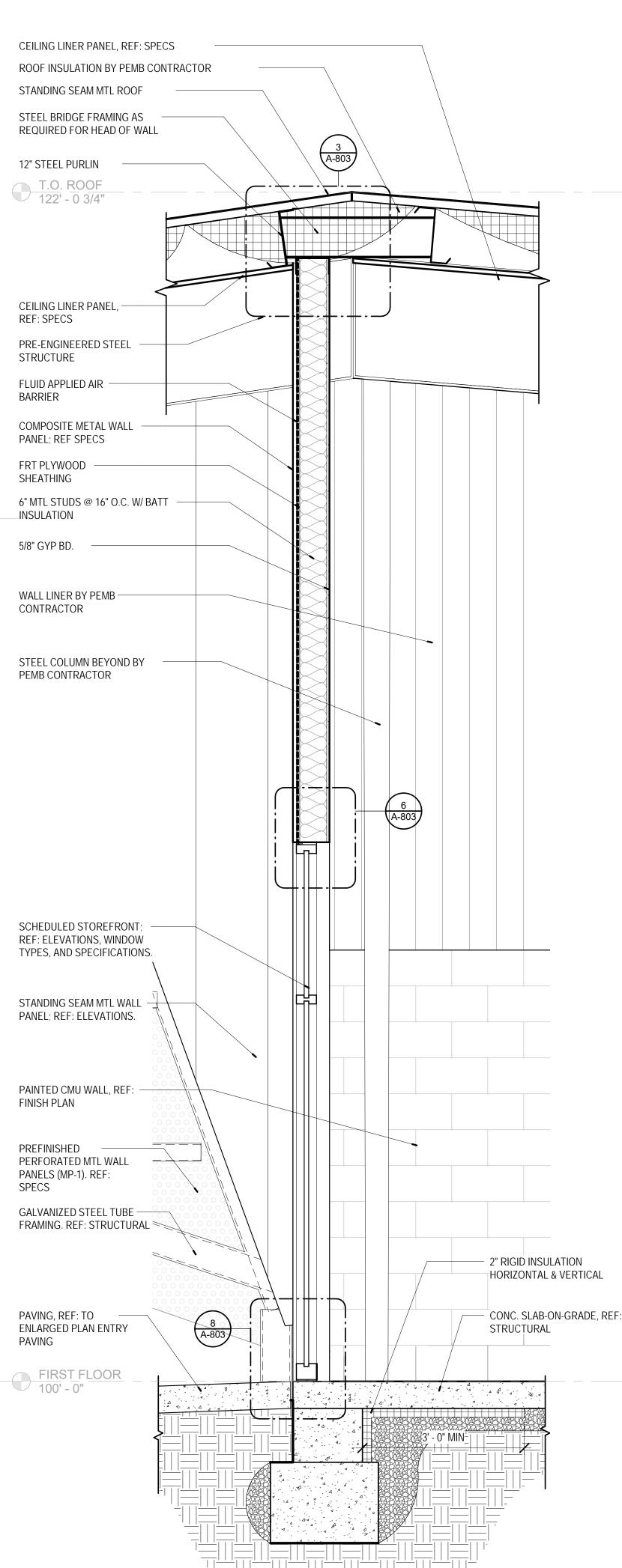
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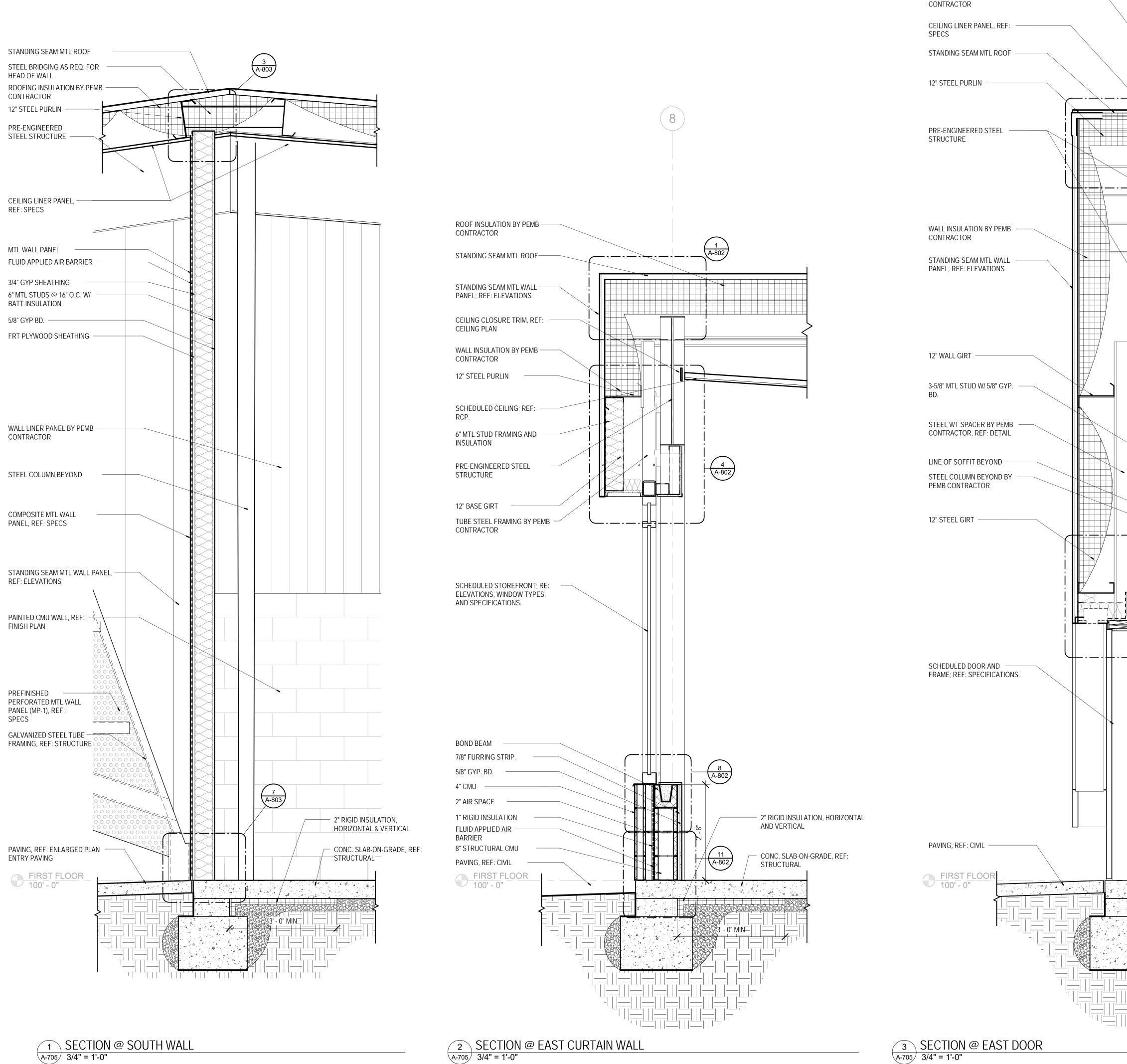
3 SECTION @ SOUTH WALL METAL PANEL A-704 3/4" = 1'-0"

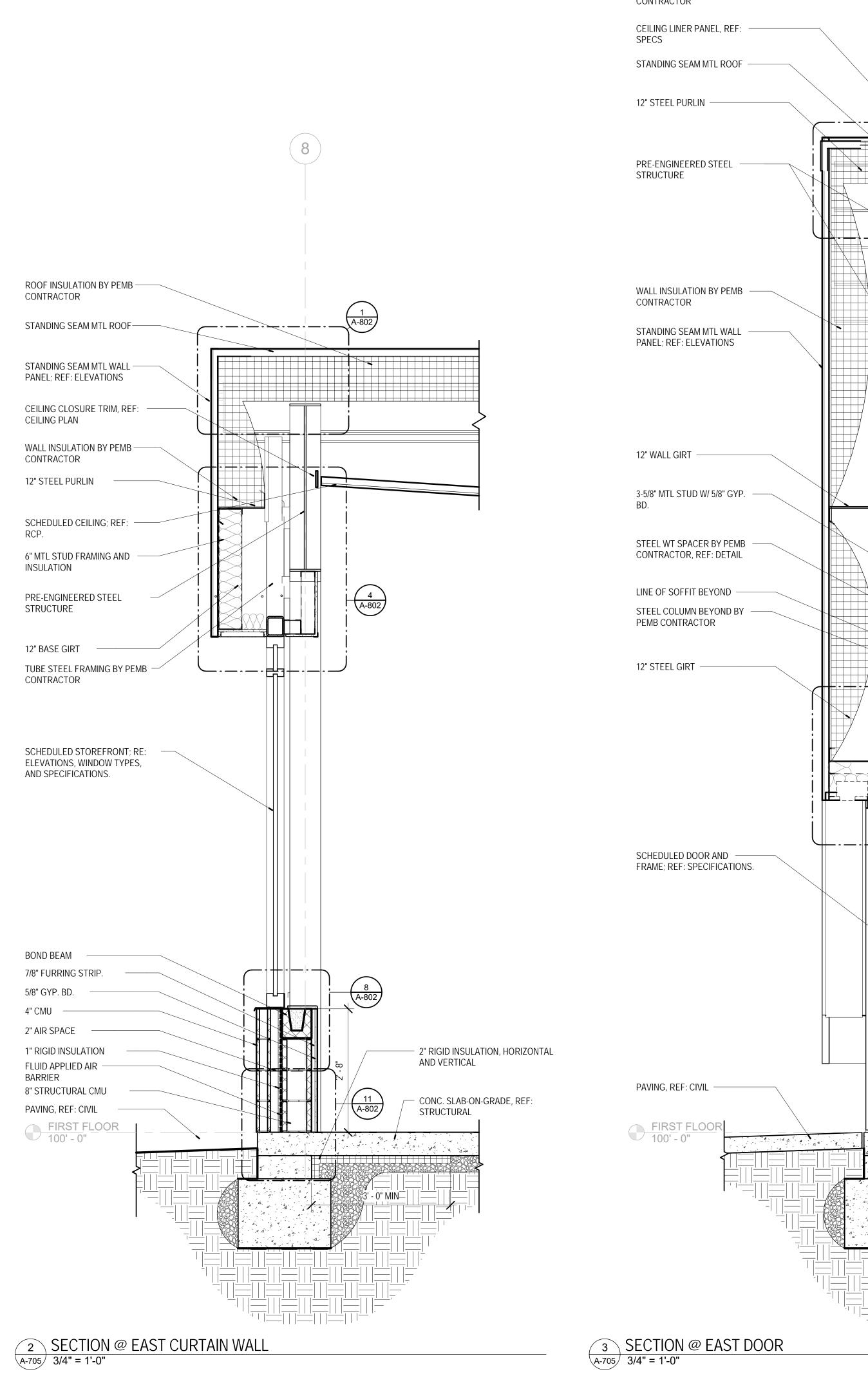




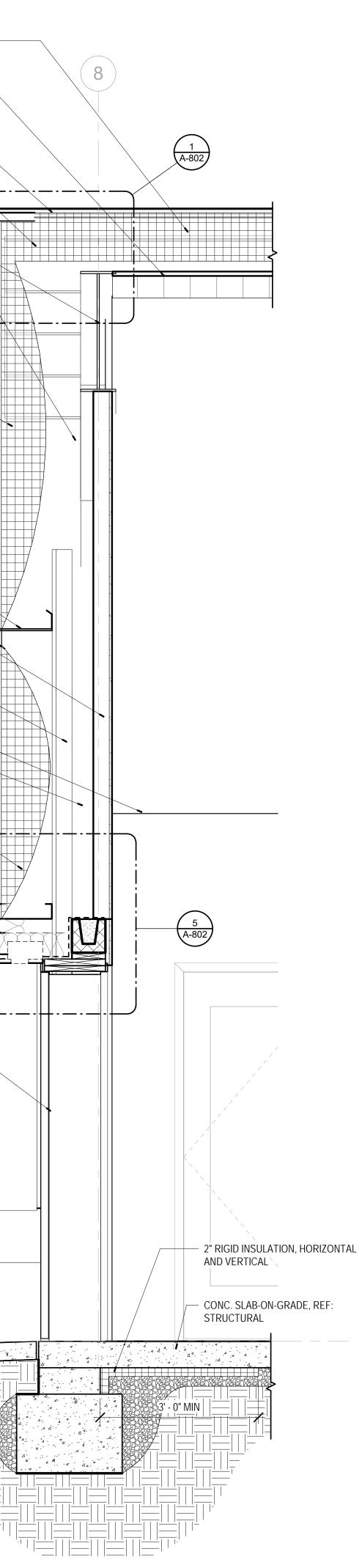


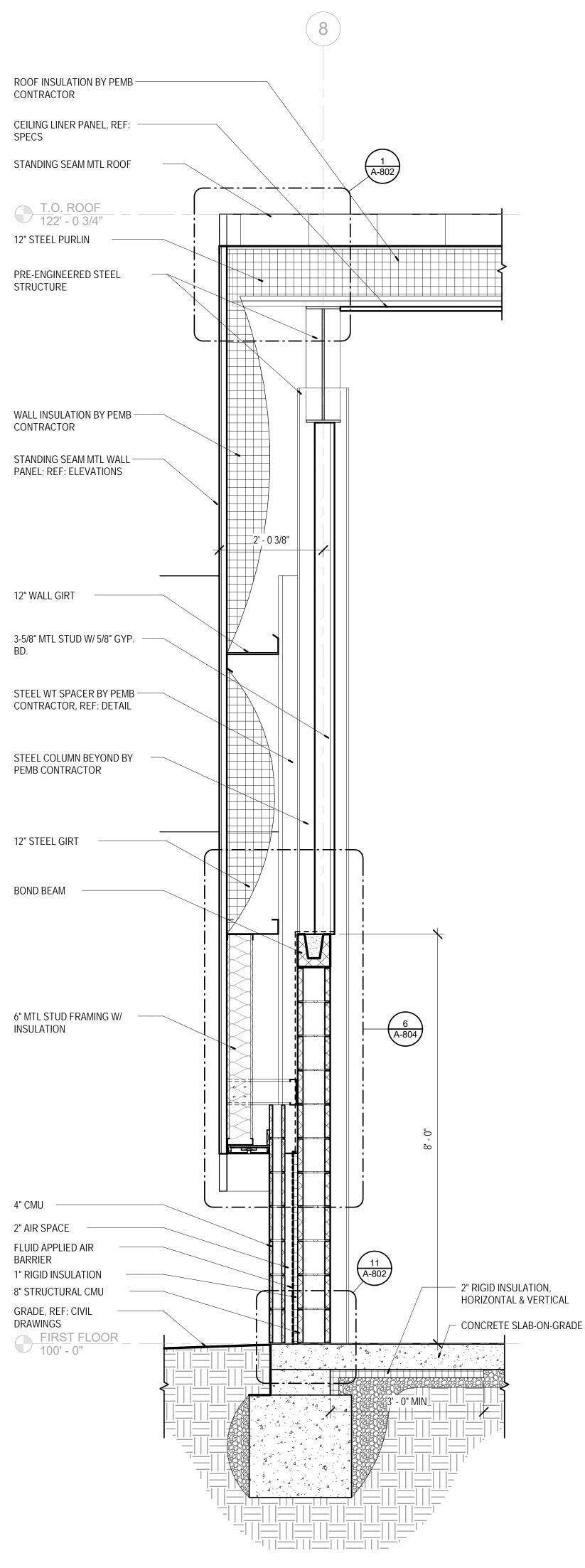
ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM LANDSCAPE DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: MB PROJECT NUMBER: 18-1260.00 SHEET TITLE: SECTIONS - WALL A-704





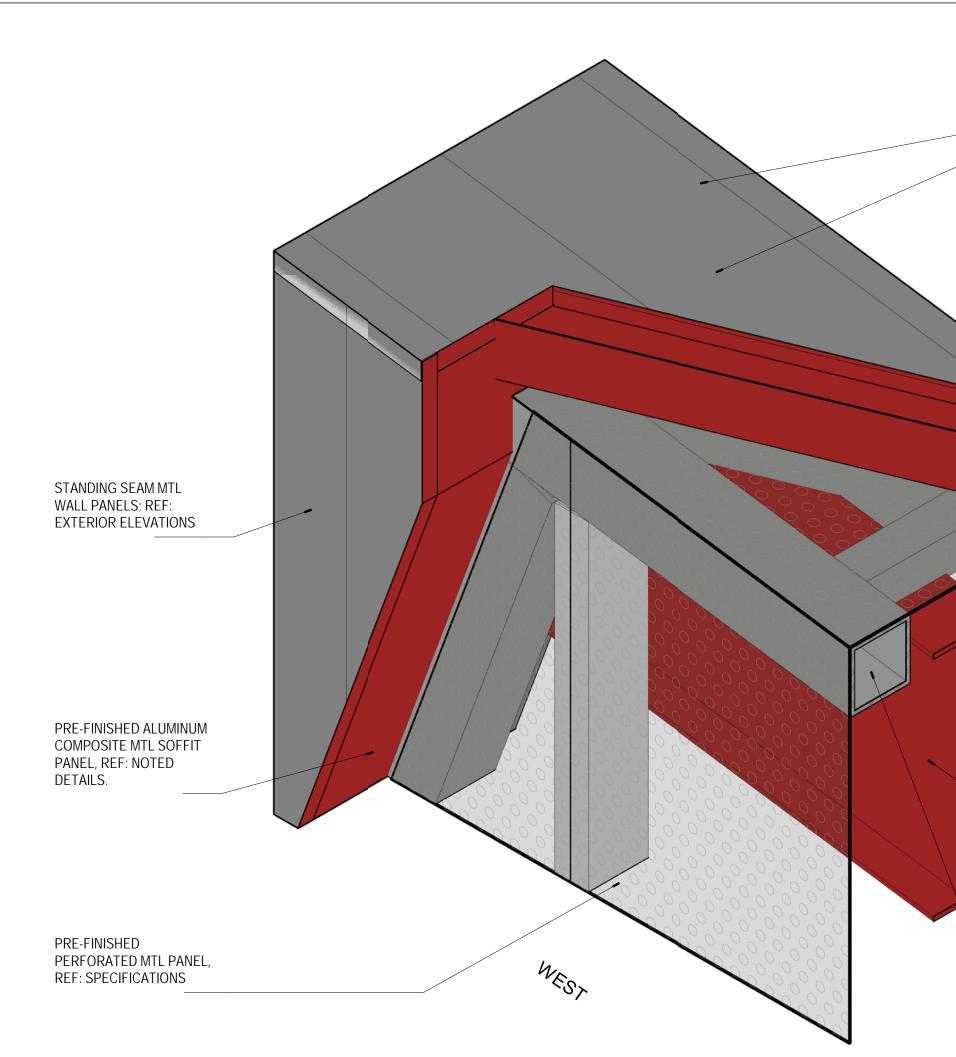
ROOF INSULATION BY PEMB



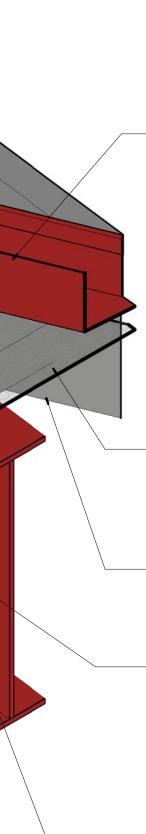


4 SECTION @ EAST WALL METAL PANEL A-705 3/4" = 1'-0"

ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM <u>CIVIL</u> CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY PGREGORY@DAVIDMASON.COM LANDSCAPE DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: MB PROJECT NUMBER: 18-1260.00 SHEET TITLE: SECTIONS - WALL A-705







- STANDING SEAM MTL ROOF PANELS, REF: ROOF PLAN, WALL SECTIONS AND DETAILS.

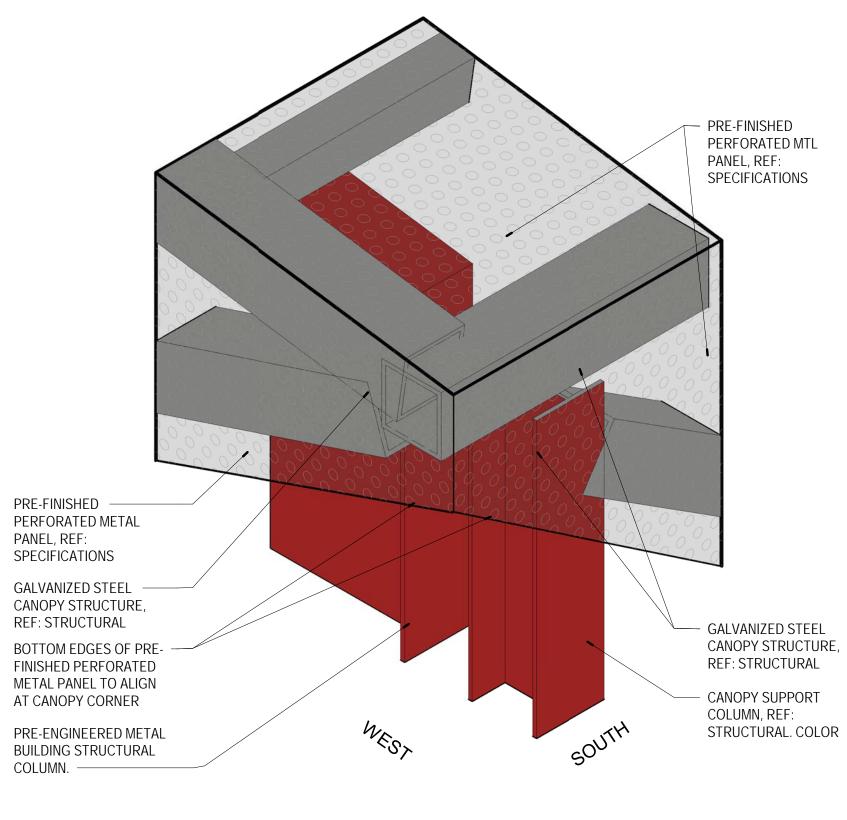
 6" GUTTER; COLOR TO MATCH ALUMINUM COMPOSITE METAL (MP-2)

PRE-FINISHED PERFORATED MTL PANEL, REF: SPECIFICATIONS

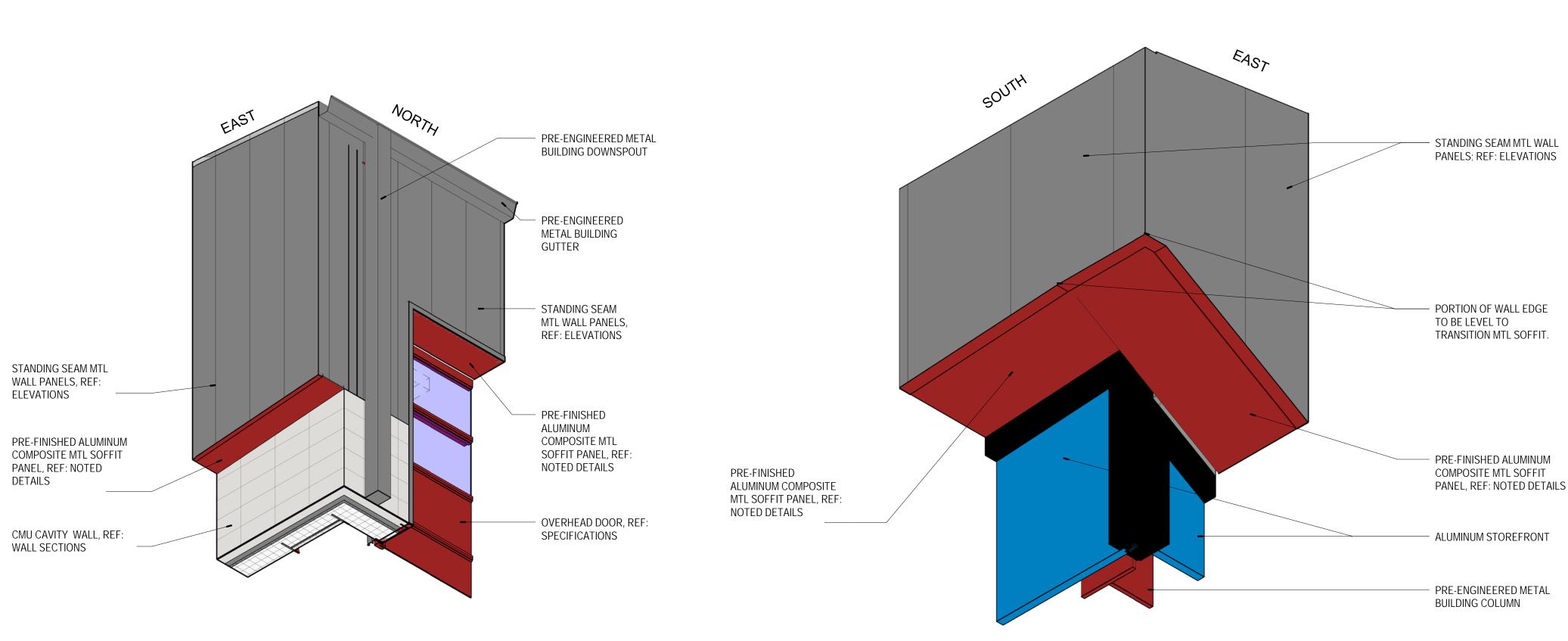
- GALVANIZED STEEL CANOPY STRUCTURE, REF: STRUCTURAL

 PRE-ENGINEERED METAL BUILDING STRUCTURAL FRAME

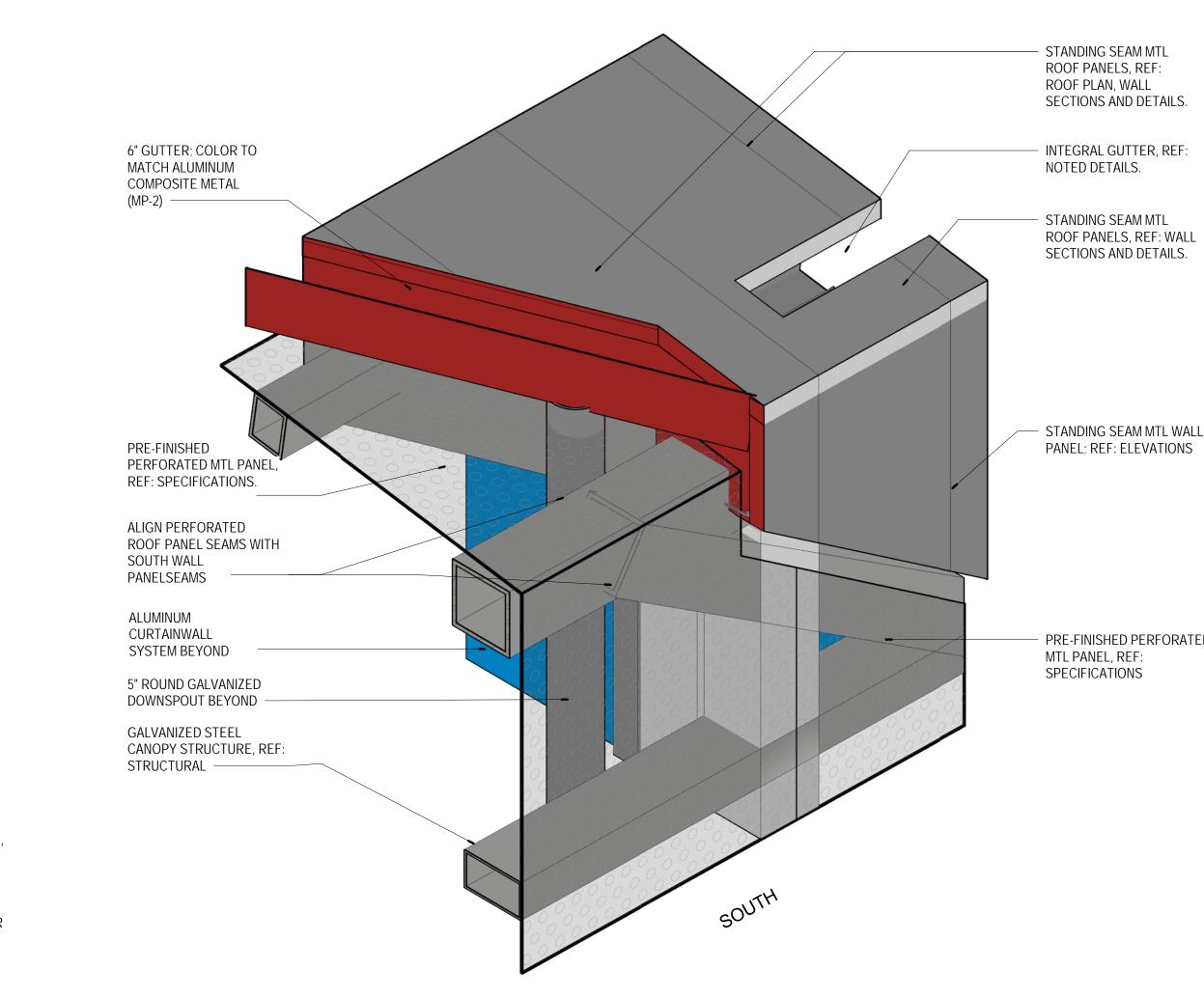
GALVANIZED STEEL
 CANOPY STRUCTURE,
 REF: STRUCTURAL



2 DETAIL - AXON - CANOPY - SOUTHWEST A-801 N.T.S.

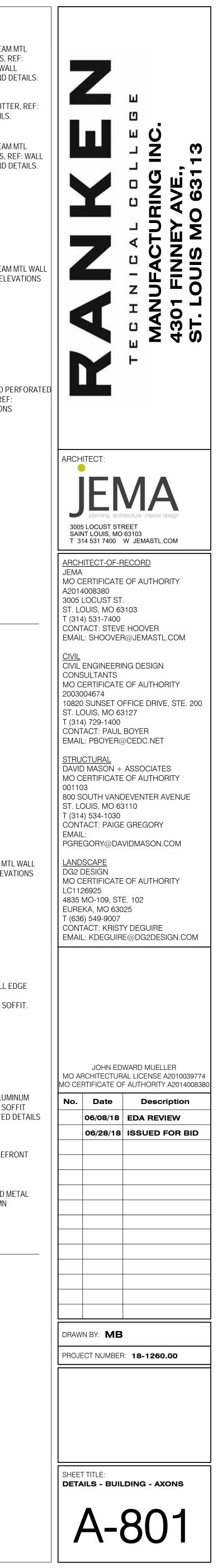


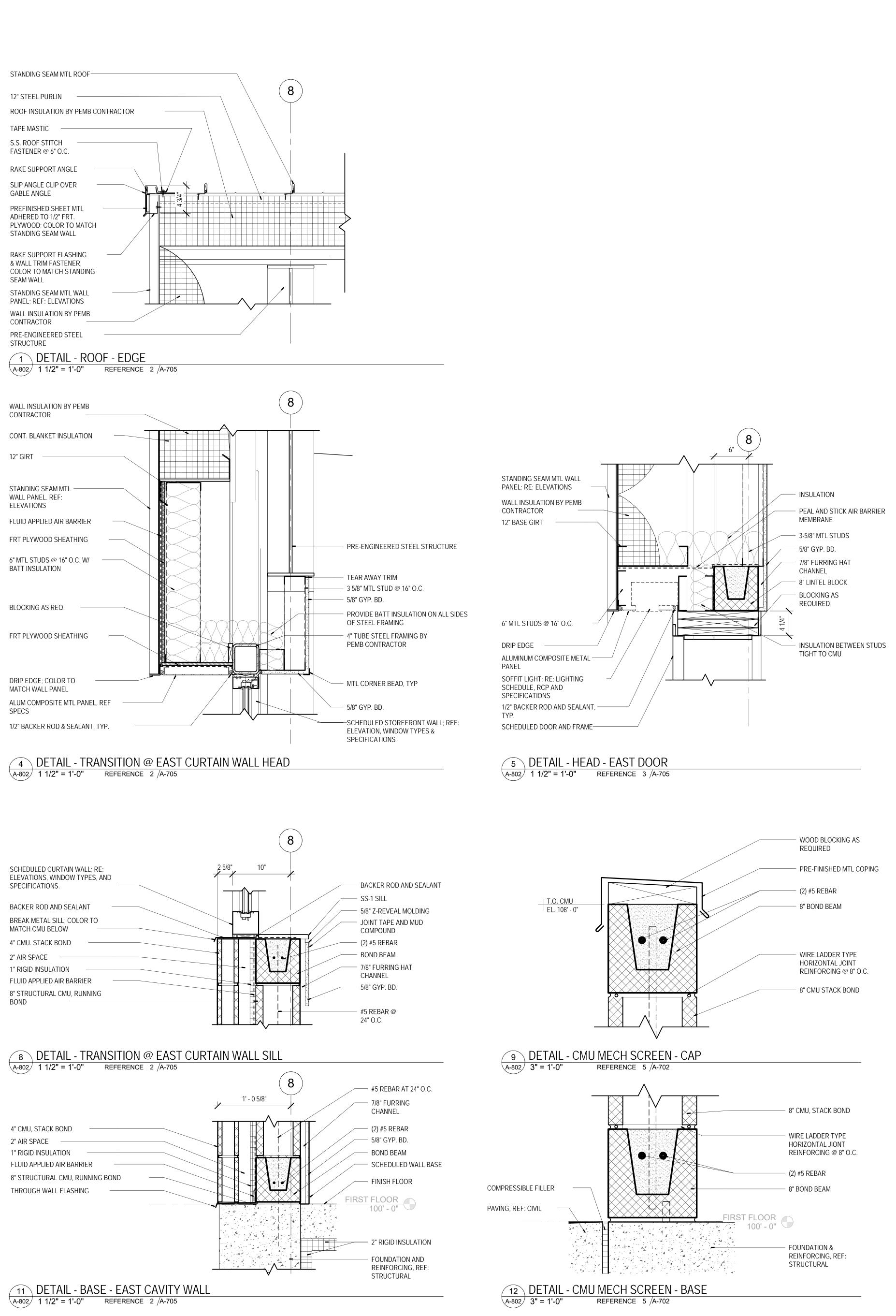
4 DETAIL - AXON - CANOPY - NORTHEAST A-801 N.T.S.

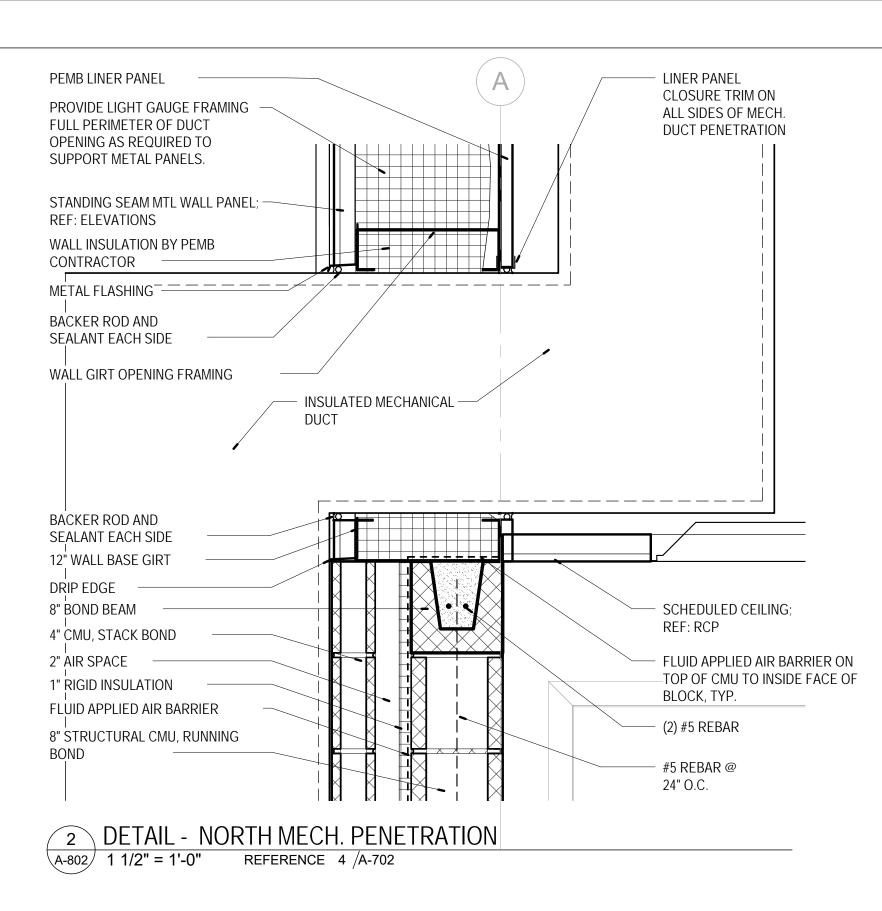


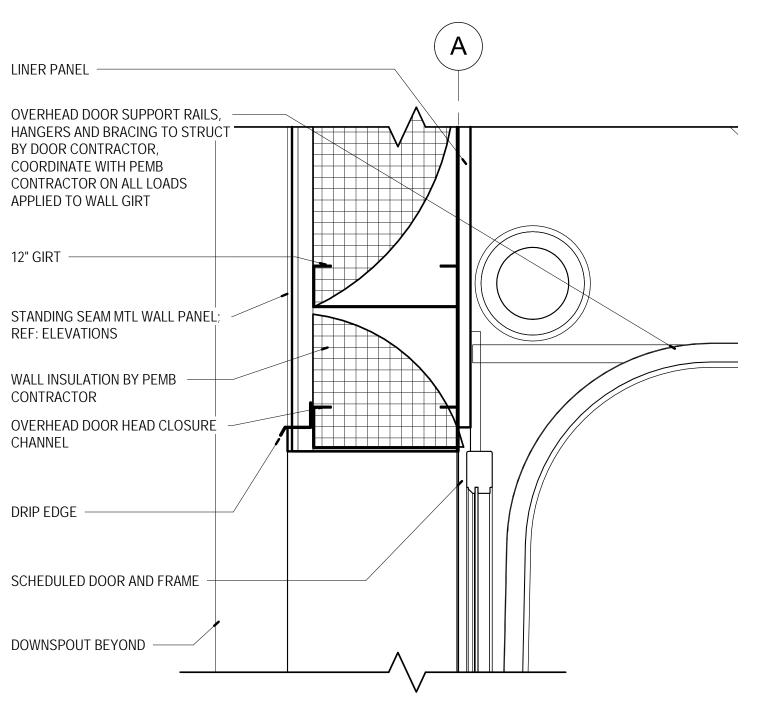


5 DETAIL - AXON - CANOPY - SOUTHEAST A-801 N.T.S.





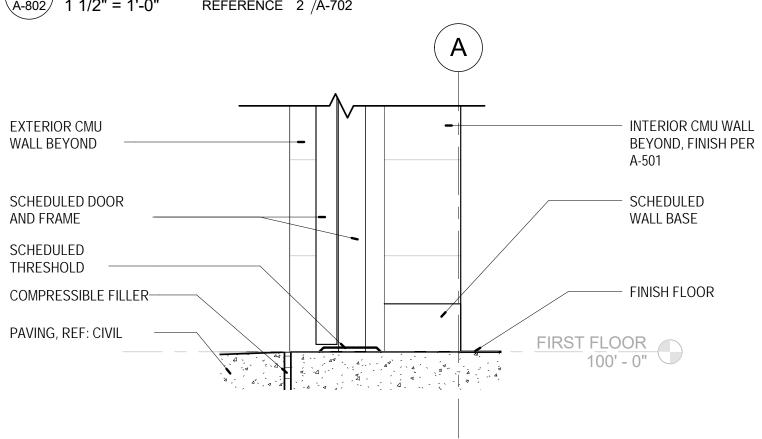




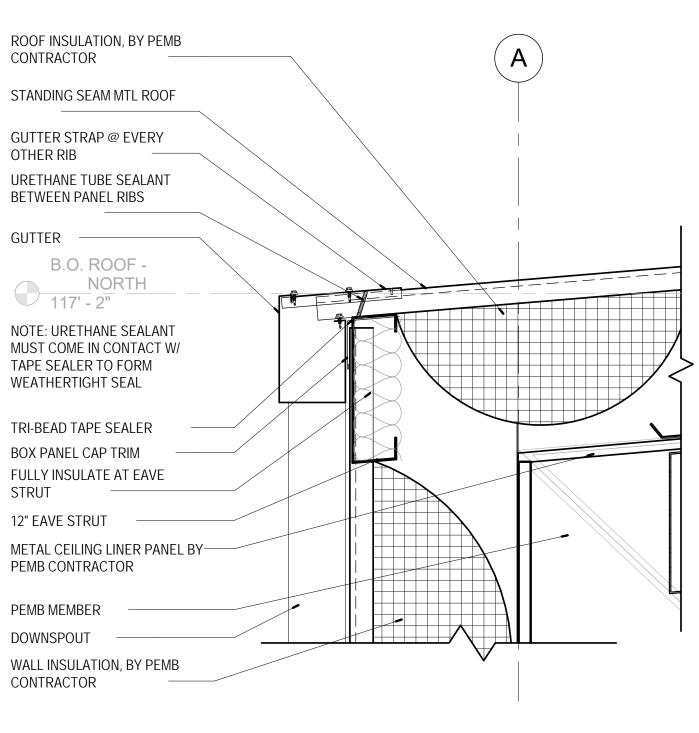
## 6 DETAIL - TRANSITION @ OVERHEAD DOOR HEADER A-802 1 1/2" = 1'-0" REFERENCE 3 /A-702

STANDING SEAM MTL WALL PANEL; REF: ELEVATIONS	
WALL INSULATION BY PEMB CONTRACTOR	
12" BASE GIRT	
DRIP EDGE	
4" CMU, STACK BOND	
1" RIGID INSULATION	
FLUID APPLIED AIR BARRIER	
8" LINTEL BLOCK, L4 X 3 1/2 X 1/4	
STEEL LINTEL, PAINT EXPOSED SURFACES TO MATCH DOOR FRAME	
SCHEDULED DOOR AND FRAME	_

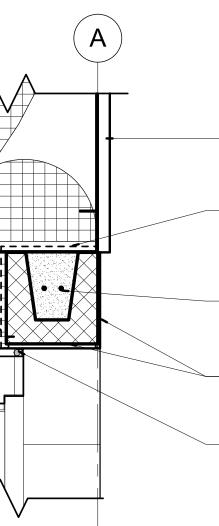
## 10 DETAIL - TRANSITION @ CMU DOOR HEADER A-802 1 1/2" = 1'-0" REFERENCE 2 /A-702



13 DETAIL - BASE - DOOR A-802 1 1/2" = 1'-0" REFERENCE 2 /A-702







METAL WALL PANEL BY

FLUID APPLIED AIR BARRIER

ON TOP OF CMU TO INSIDE

PAINT INTERIOR FACE OF

BLOCK, REF: FINISH PLAN

BACKER ROD & SEALANT,

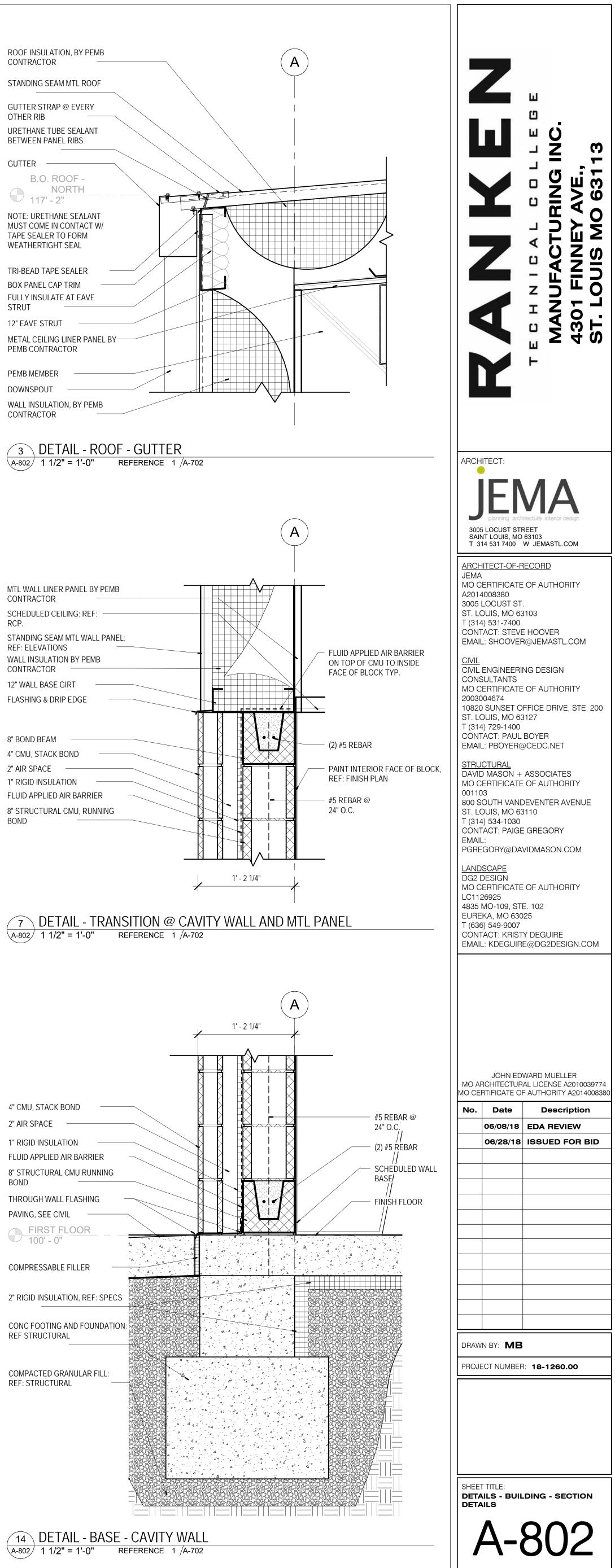
TYP. BOTH SIDES OF FRAME

FACE OF BLOCK TYP.

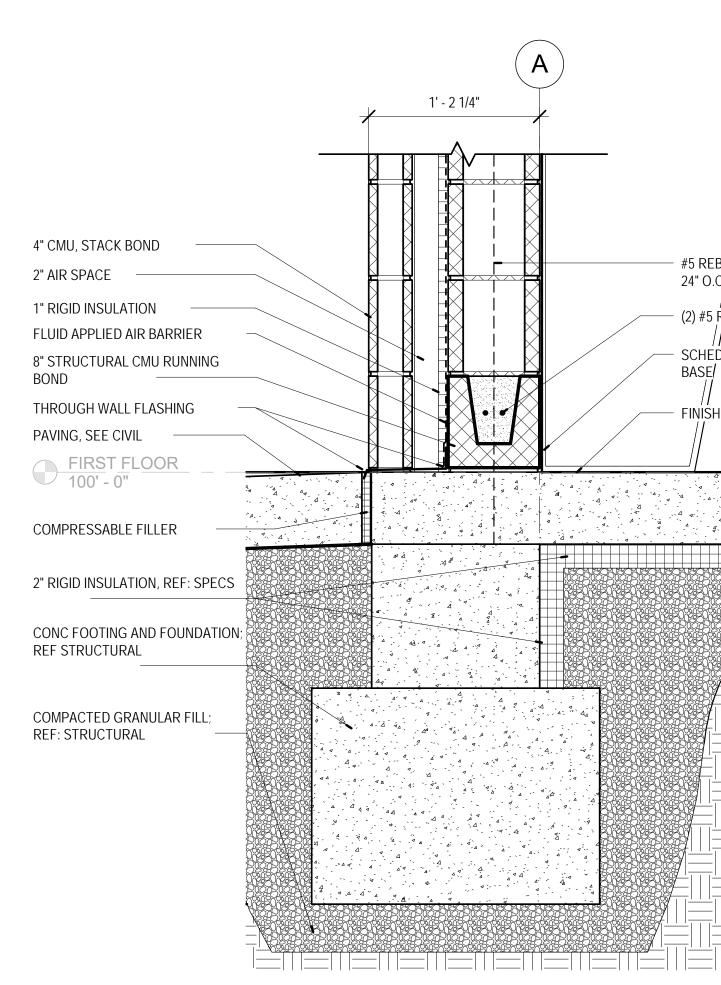
— (2) #5 REBAR

PEMB CONTRACTOR









DOWNSPOUT GUARD	
FOLD STANDING SEAM WALL UP TO ALIGN WITH ROOF	·
SCH 40 PVC SEALED DOWNSPOUT W/ RUBBER GASKET EA. SIDE OVER SILICON	X
FULLY INSULATE AT EAVE STRUT	
6" DOWNSPOUT WRAPPED IN CONTINUOUS INSULATION	
MTL WALL PANEL; RE: ELEVATIONS	
BLANKET WALL INSULATION BY PEMB CONTRACTOR	
_	

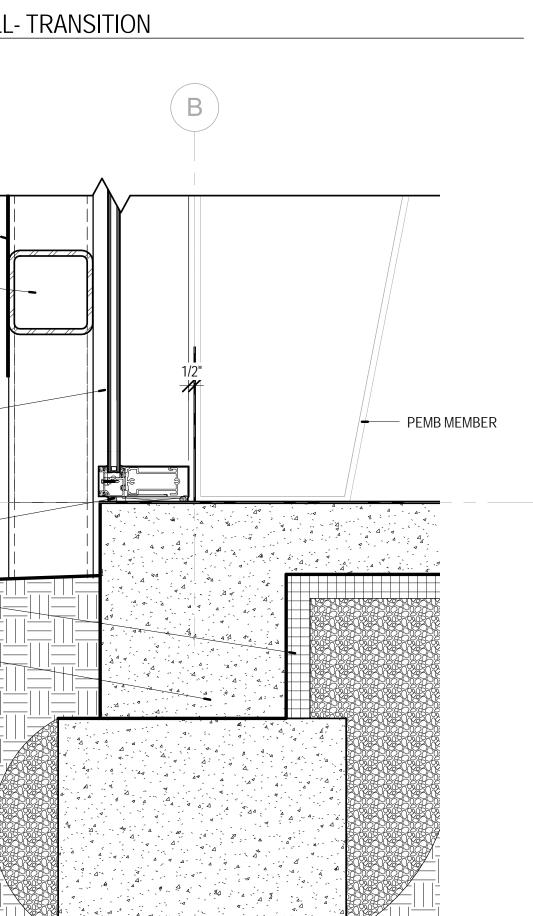
### 1 DETAIL @ SOUTH SCREEN WALL - INTERNAL GUTTER A-803 1 1/2" = 1'-0" REFERENCE 1 /A-704

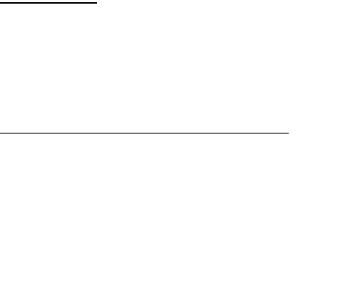
STANDING SEAM MTL WALL PANEL; REF: ELEVATIONS	
FRT PLYWOOD SHEATHING	
	$\langle \rangle$
6" MTL STUDS @ 16" O.C. W/ CONT BATT INSULATION	
BREAK MTL OVER TUBESTEEL; PAINT TO MATCH CURTAIN WALL MULLIONS	
	la la
DRIP EDGE	
DRIP EDGE	
1/2" BACKER ROD AND SEALANT	
1/2" BACKER ROD AND SEALANT ALUMINUM COMPOSITE METAL PANEL	
1/2" BACKER ROD AND SEALANT ALUMINUM COMPOSITE METAL PANEL 7-1GALVANIZED TUBE STEEL	
1/2" BACKER ROD AND SEALANT         ALUMINUM COMPOSITE METAL         PANEL         7-1GALVANIZED TUBE STEEL         FRAMING;RE: STRUCTURAL DRAWINGS.	
1/2" BACKER ROD AND SEALANT         ALUMINUM COMPOSITE METAL         PANEL         7-1GALVANIZED TUBE STEEL         FRAMING;RE: STRUCTURAL DRAWINGS.         PERFORATED MTL PANEL	
1/2" BACKER ROD AND SEALANT         ALUMINUM COMPOSITE METAL         PANEL         7-1GALVANIZED TUBE STEEL         FRAMING;RE: STRUCTURAL DRAWINGS.	

# 4 DETAIL @ SOUTH SCREEN WALL- TRANSITION A-803 1 1/2" = 1'-0" REFERENCE 1 /A-704

PERFORATED STANDIN SEAM METAL PANEL, R TO SPECS AND DETAIL	EFER	 	<u> </u>	_
GALVANIZED TUBE STE FRAMING;REF: STRUCT DRAWINGS.		 		
SCHEDULED CURTAIN ELEVATIONS, WINDOW AND SPECIFICATIONS.	1	 		
FIRST FLOOF 100' - 0"	<u> </u>	 		
CONT. BACKER ROD AN SEALANT BOTH SIDES	ND	 		
2" RIGID INSULATION, REF: SPECS				
FOUNDATION AND REI REF. TO STRUCTURAL	NFORCING, -			$\left \right $
			- <u>     </u> -   <u></u> -       -	
			- <u>     </u> -   <u></u> -       -	

9 DETAIL @ SOUTH SCREEN WALL - BASE A-803 1 1/2" = 1'-0" REFERENCE 1 /A-704





— 3 5/8" MTL STUDS

- 5/8" GYP BD.

- 6" BATT INSULATION

- TUBE STEEL FRAMING BY

PEMB CONTRACTOR

- MTL CORNER BEAD,

- 3-5/8" MTL STUDS @ 16" O.C.;

SLOPE AS REQD TO MATCH

SCHEDULED CURTAIN WALL; REF:

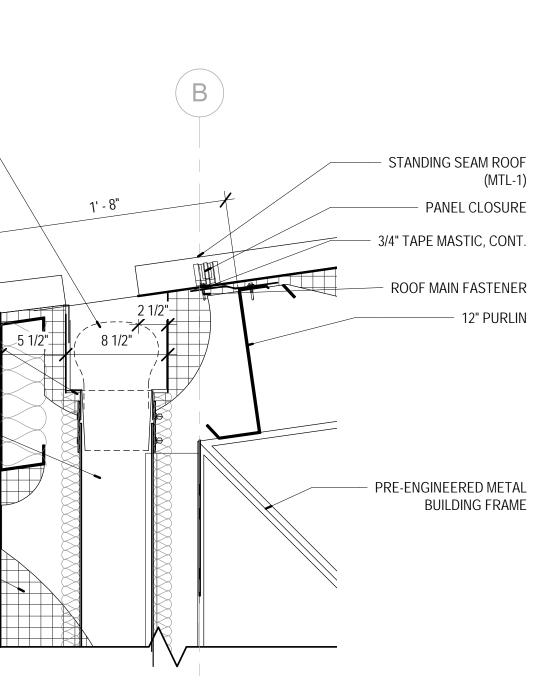
ELEVATIONS, WINDOW TYPES

SLOPE OF CURTAIN WALL

AND SPECIFICATIONS.

TYP.

B



# STANDING SEAM MTL WALL PANEL 6" MTL STUDS @ 16" O.C. FRT PLYWOOD SHEATHING FLUID APPLIED AIR BARRIER -4" CMU, STACK BOND; STEP BLOCK -AS REQUIRED TO MATCH SLOPE OF STANDING SEAM WALL PANEL BLOCKING AS REQUIRED -FRT PLYWOOD SHEATHING DRIP EDGE ALUMINUM COMPOSITE METAL PANEL SOFFIT LIGHT; RE: LIGHTING SCHEDULE AND SPECIFICATIONS 1/2" BACKER ROD AND SEALANT 2" AIR SPACE -**1" RIGID INSULATION** THROUGH WALL FLASHING

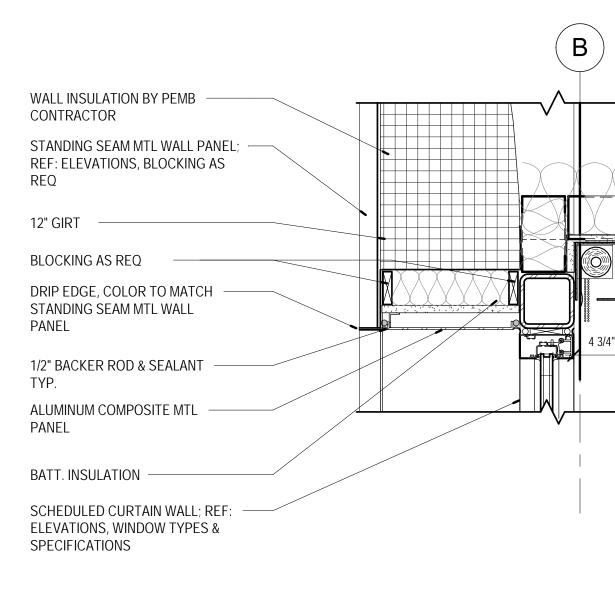
10 DETAIL - SOUTH METAL WALL PANEL

A-803 1 1/2" = 1'-0" REFERENCE 3 /A-704

### 7 DETAIL - BASE - MTL PANEL A-803 1 1/2" = 1'-0" REFERENCE 1 /A-705

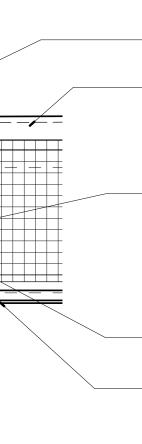
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## 5 DETAIL - SOUTH WINDOW SHADE POCKET A-803 1 1/2" = 1'-0" REFERENCE 2 /A-500



## 2 DETAIL - ROOF - EXTERIOR GUTTER @ CANOPY A-803 1 1/2" = 1'-0" REFERENCE 1 /A-203

URETHANE TUBE SEALANT BETWEEN PANEL RIBS	
TRI-BEAD TAPE SEALER	
6" GUTTER. COLOR TO MATCH ALUMINUM COMPOSITE METAL SOFFIT (MP-2)	
PERFORATED MTL PANEL (MP-3)	
STEEL ANGLE; REF STRUCTURAL	
STEEL TUBE FRAMING; REF: STRUCTURAL DRAWINGS	





- BLANKET INSULATION BY PEMB CONTRACTOR

- ROOF PURLINS

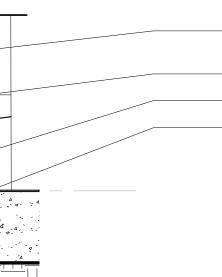
- PEMB LINER PANEL ATTACHED TO ROOF STRUCTURE

- 3 5/8" MTL STUD AT 16" O.C., TYP.; SLOPE FRAMING WITH CLG AS REQ. - 6" BATT INSULATION - 3 5/8" MTL STUDS TO BE

PERPENDICULAR TO FINISH FLOOR @ POCKET; STEP FRAMING @ EACH POCKET; SEE DETAIL 2/A-500 FOR MORE INFORMATION.

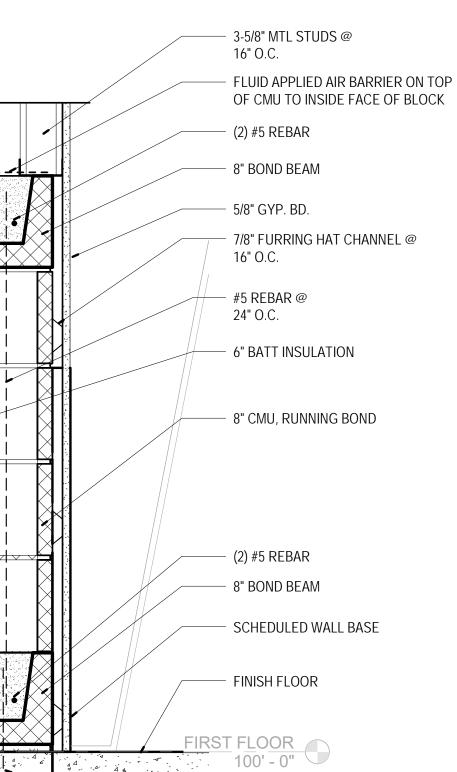
- 5/8" GYP. BD. TYP.

- SCHEDULED CLG; REF: RCP MTL CORNER BEAD TYP. MANUAL WINDOW SHADE, REF: SPECIFICATIONS



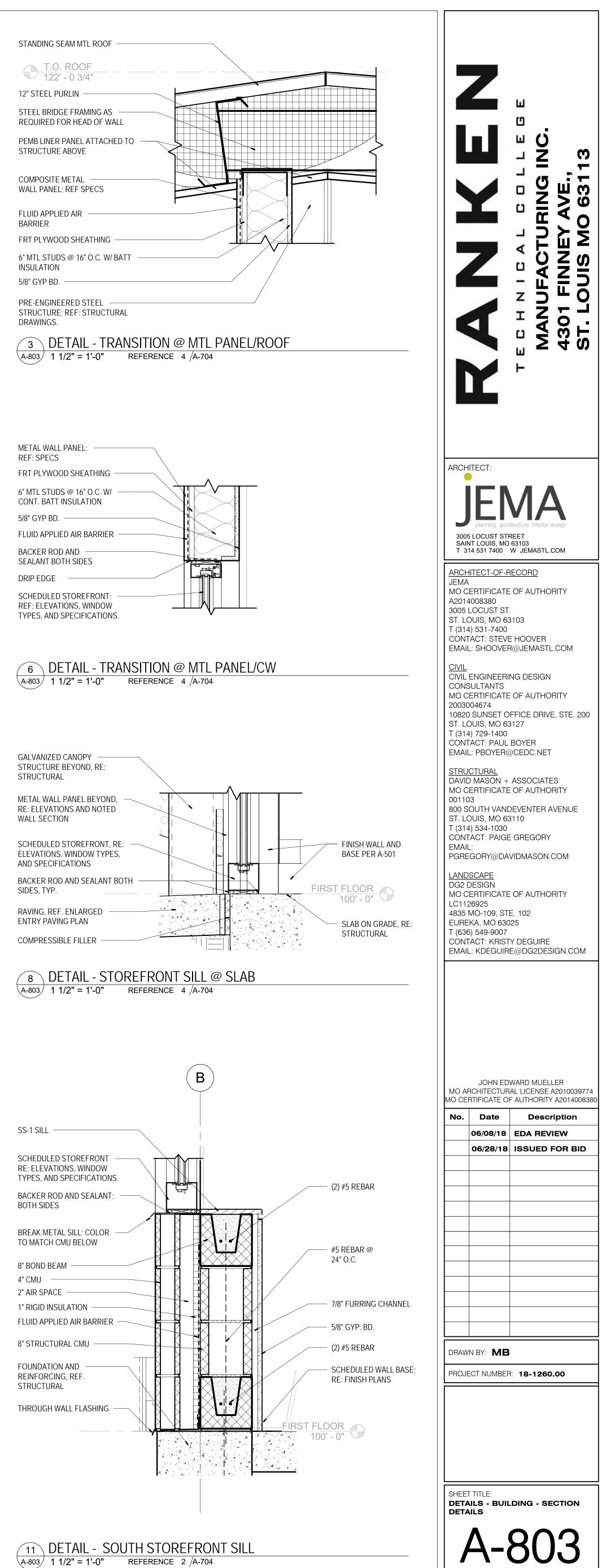
(B

- 6" MTL STUDS @ 16" O.C. W/ BATT INSULATION - 5/8" GYP BD. - SCHEDULED WALL BASE FINISH FLOOR

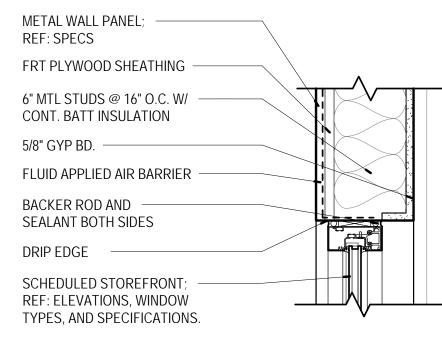


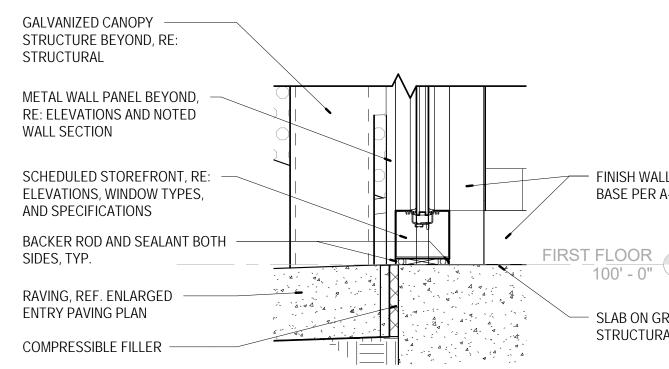
.~ \* <sup>2</sup> · 

FOUNDATION AND REINFORCING, REF. STRUCTURAL

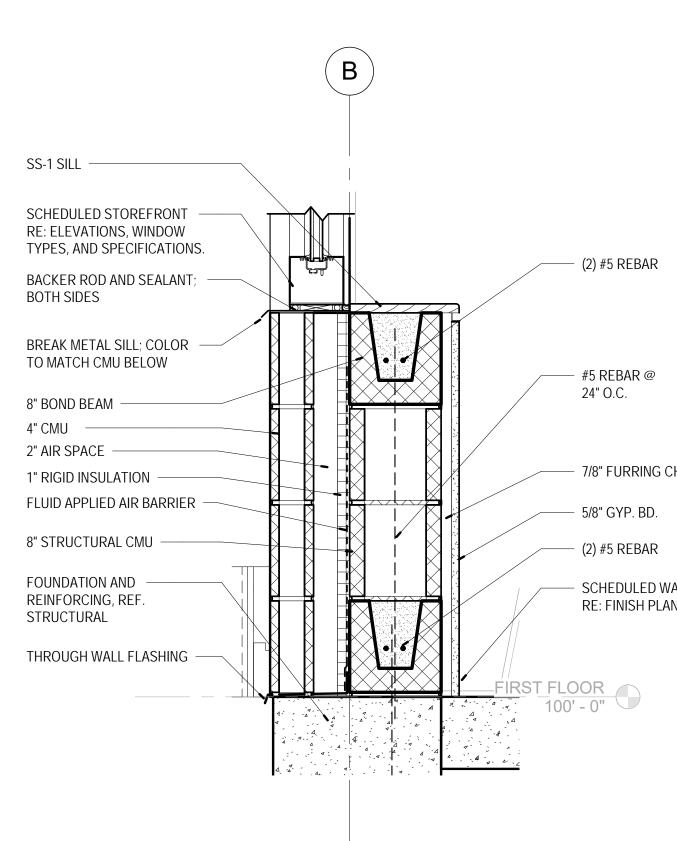


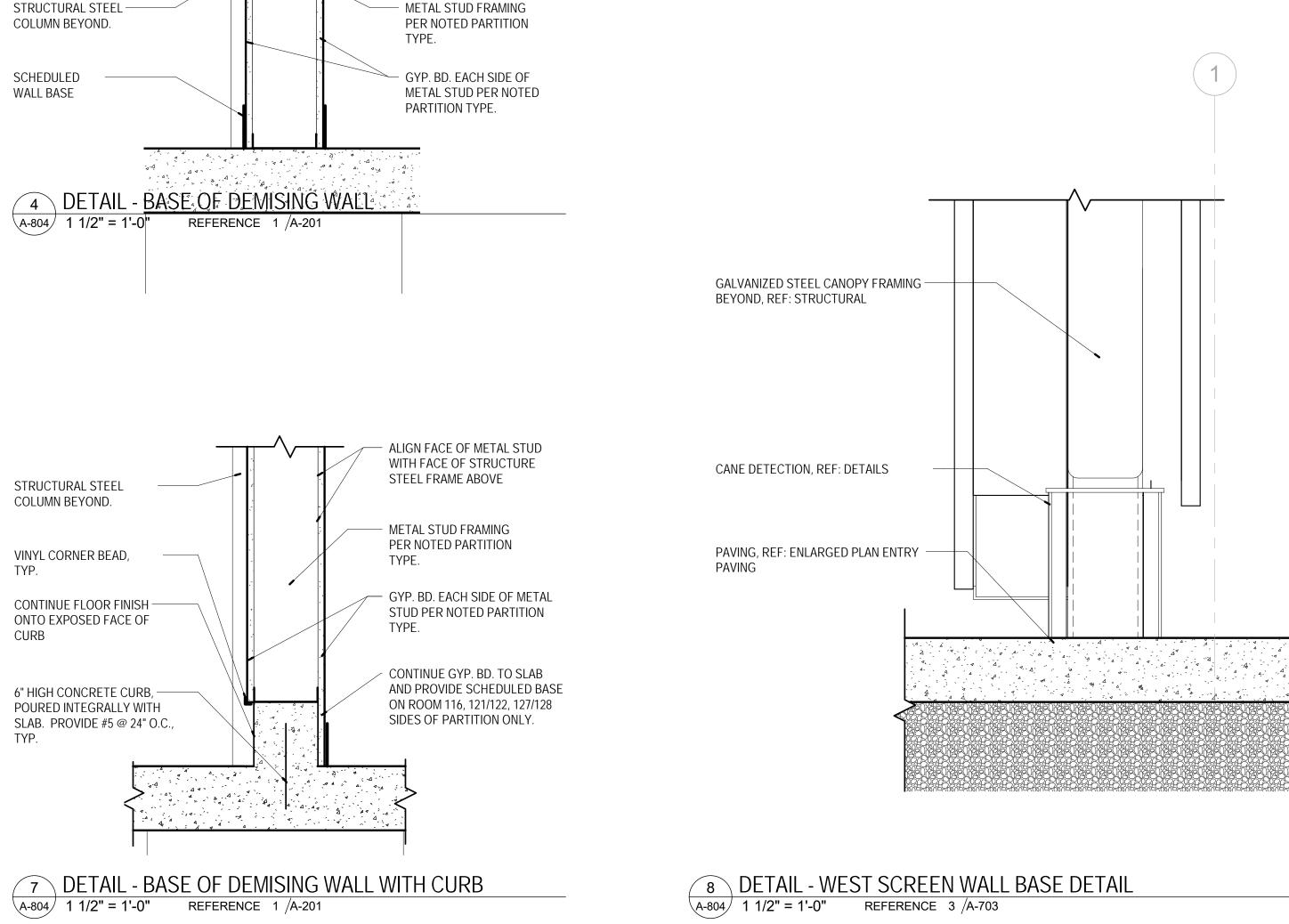










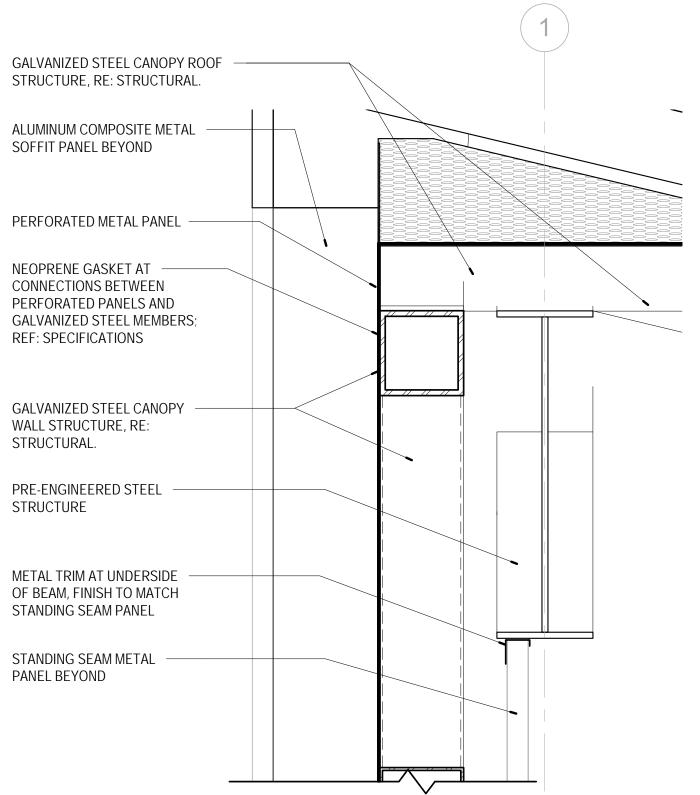


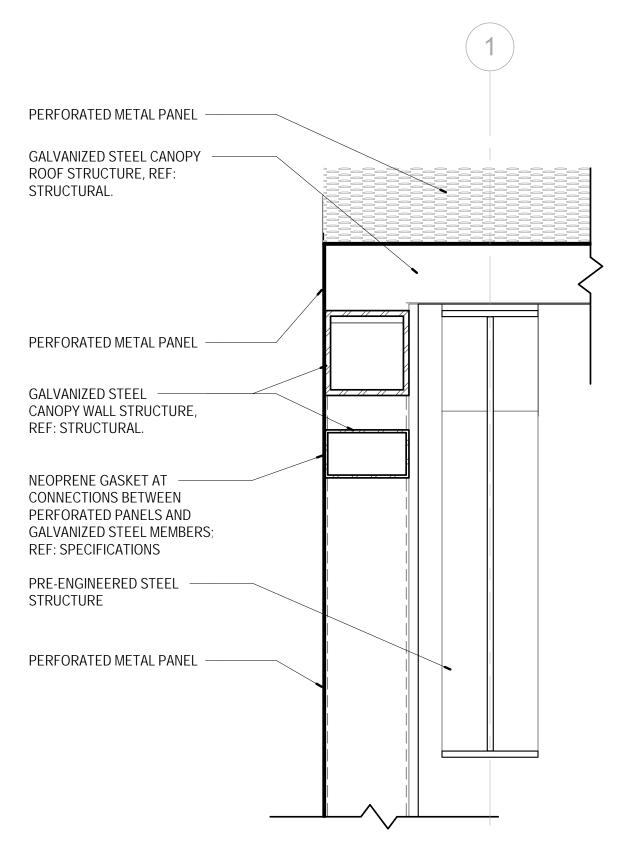
ALIGN FACE OF METAL STUD

WITH FACE OF STRUCTURE

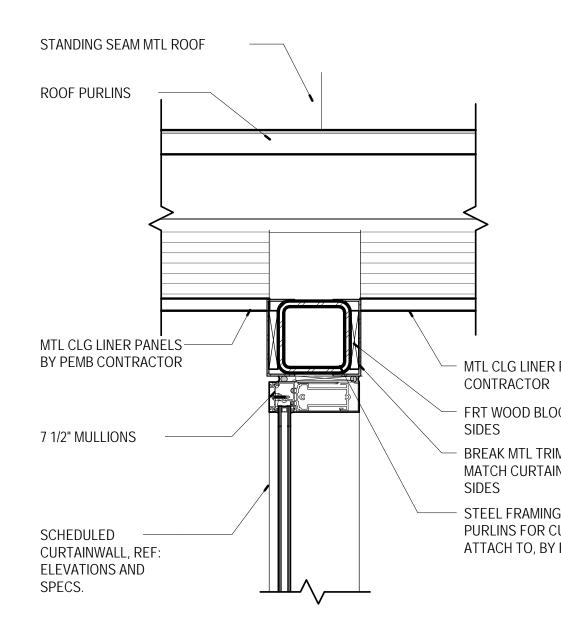
STEEL FRAME

STRUCTURE

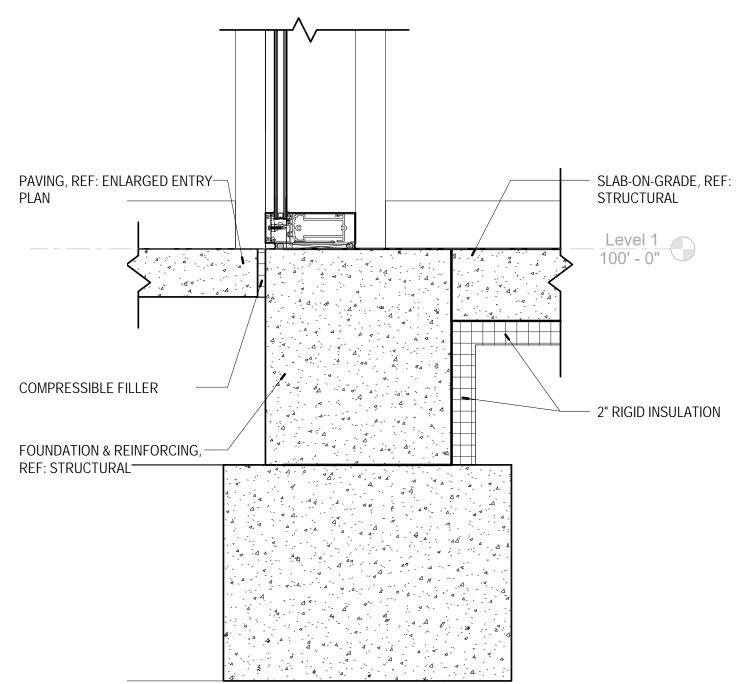




# 1 DETAIL - ROOF EDGE - PERFERATED MTL PANELS A-804 1 1/2" = 1'-0" REFERENCE 2 /A-703



# 5 DETAIL - WEST CURTAIN WALL HEAD A-804 1 1/2" = 1'-0" REFERENCE 4 /A-703



9 DETAIL - WEST CURTAIN WALL SILL A-804 1 1/2" = 1'-0" REFERENCE 4 /A-703

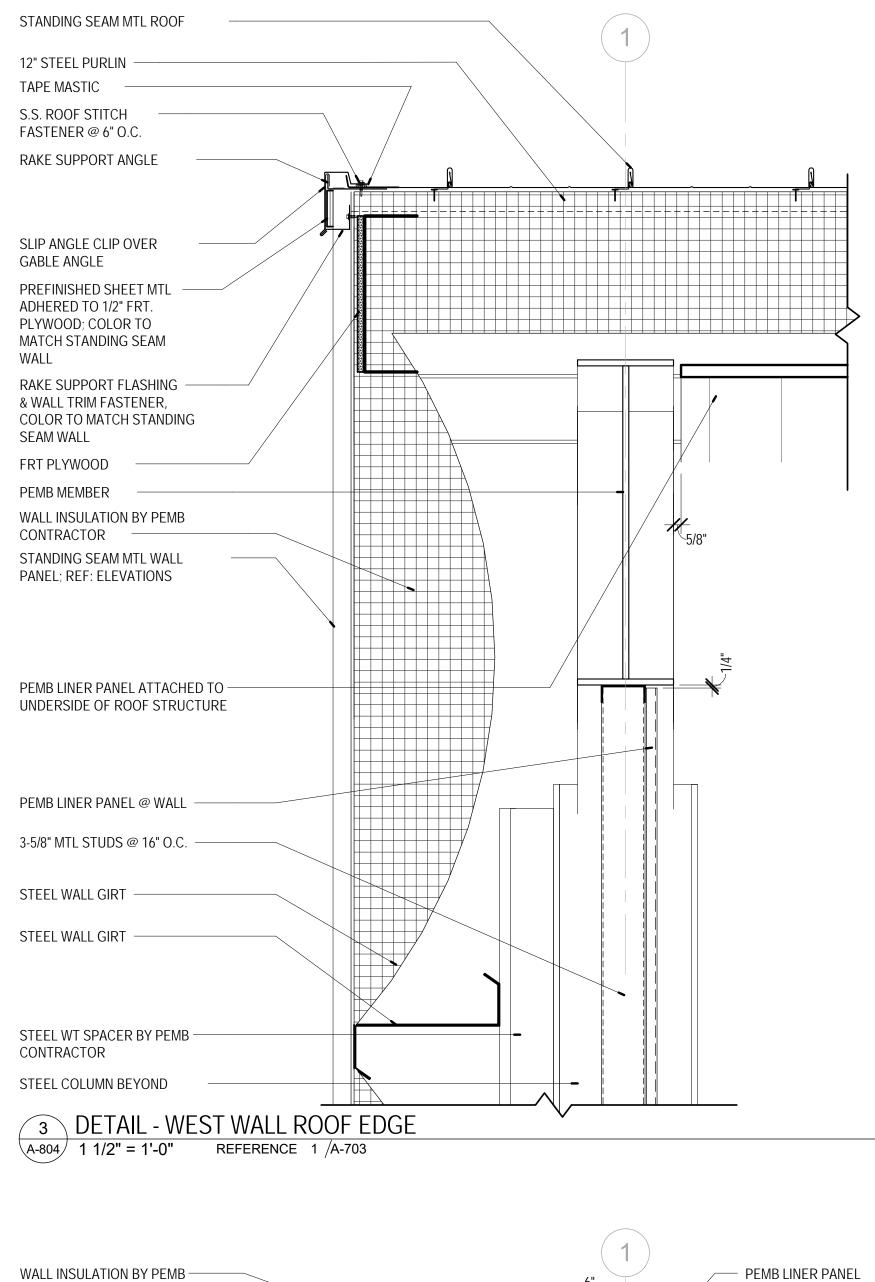
# 2 DETAIL - ROOF EDGE - PERFERATED MTL PANELS A-804 1 1/2" = 1'-0" REFERENCE 3 /A-703

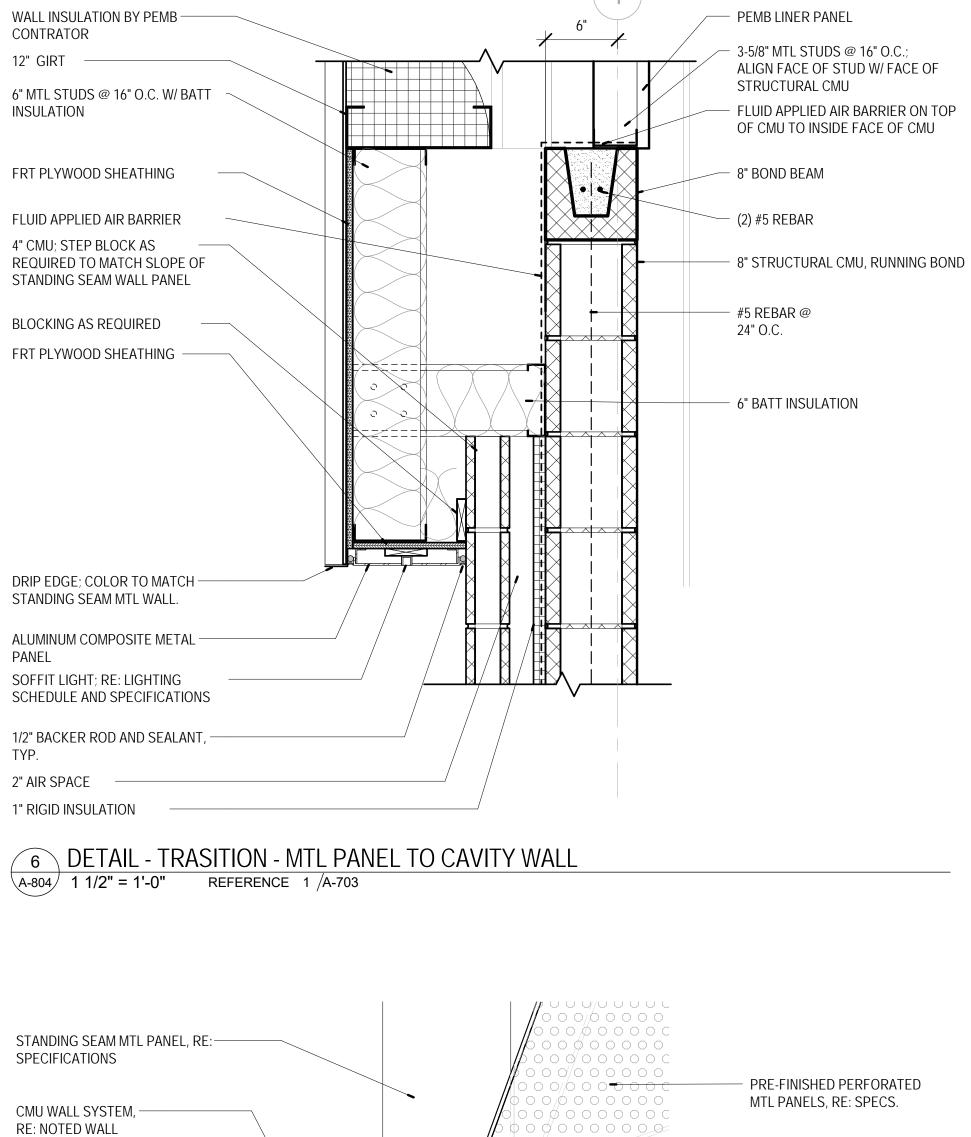
MTL CLG LINER PANELS BY PEMB - FRT WOOD BLOCKING TYP. BOTH

- BREAK MTL TRIM/CLOSURE TO MATCH CURTAINWALL TYP. BOTH

 STEEL FRAMING SPANNING ROOF PURLINS FOR CURTAINWALL TO ATTACH TO, BY PEMB CONTRACTOR

SECTIONS





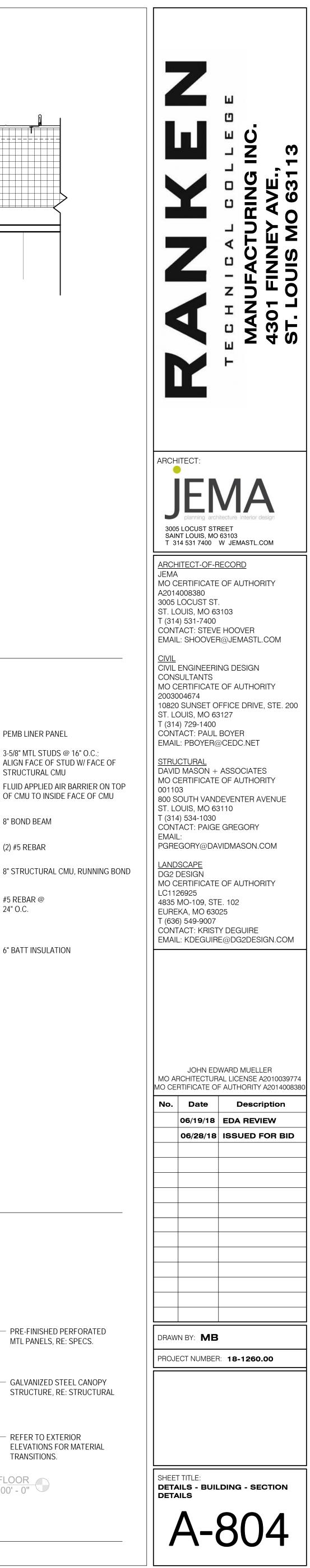
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- REFER TO EXTERIOR

TRANSITIONS.

FIRST\_FLOOR 100' - 0"

10 DETAIL - WEST ELEVATION - LOWER CANNOPY CONNECTION A-804 1" = 1'-0" REFERENCE 4 /A-601



(4)
5/8" GYP. BD.
3-5/8" MTL STUDS @
16" O.C.
PEMB MEMBER
5/8" GYP. BD.
7/8" FURRING
CHANNEL
8" STRUCTURAL CMU
FLUID APPLIED AIR BARRIER
1" RIGID INSULATION
2" AIR SPACE/ /
4" CMU/



2" AIR SPACE

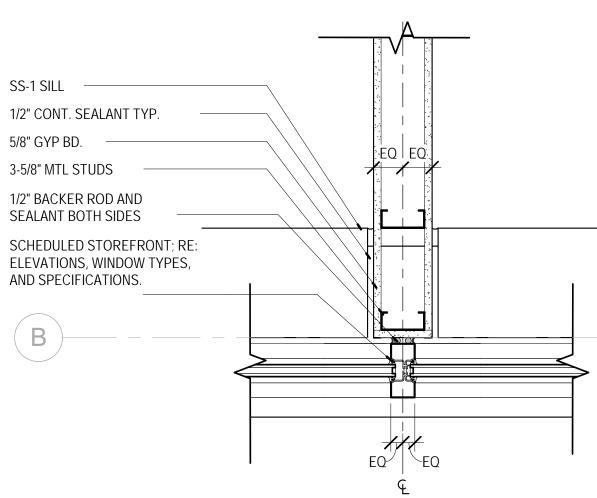
4" CMU -

PEMB MEMBER 5/8" GYP. BD. 7/8" FURRING CHANNEL -B 8" STRUCTURAL CMU FLUID APPLIED AIR barrier — **1" RIGID INSULATION** 

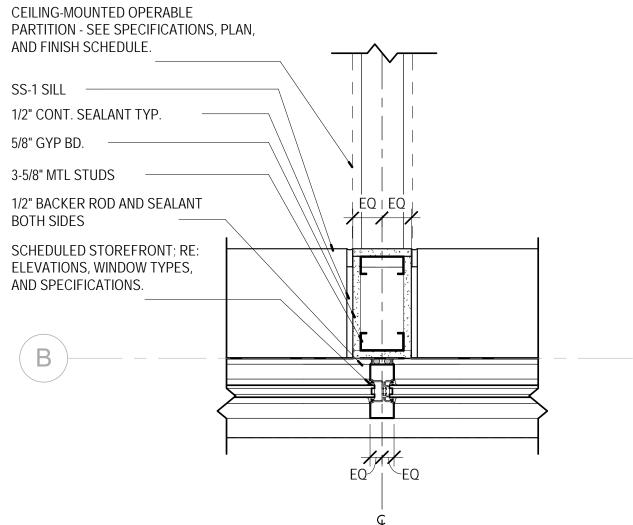
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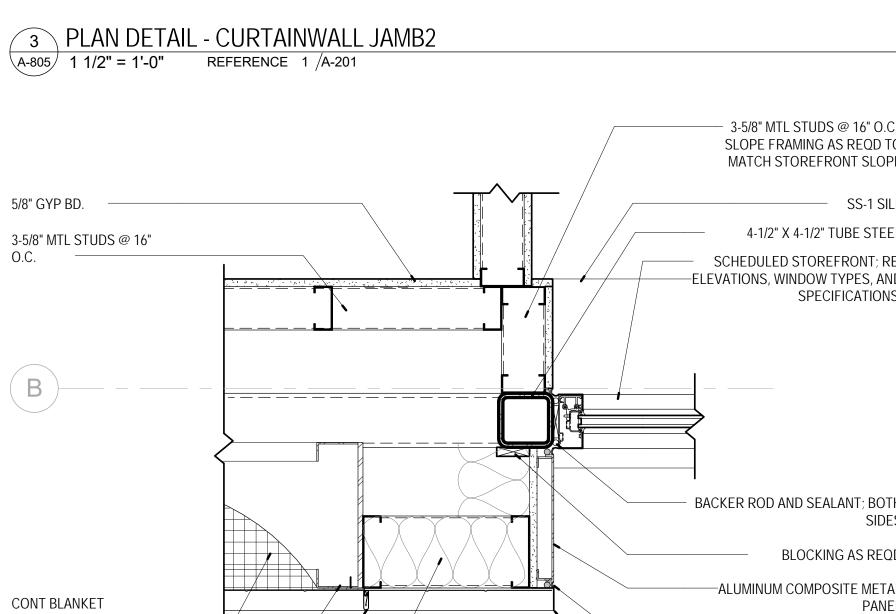
### 8 PLAN DETAIL - PARTITION TO MULLION A-805 1 1/2" = 1'-0" REFERENCE 1 /A-201

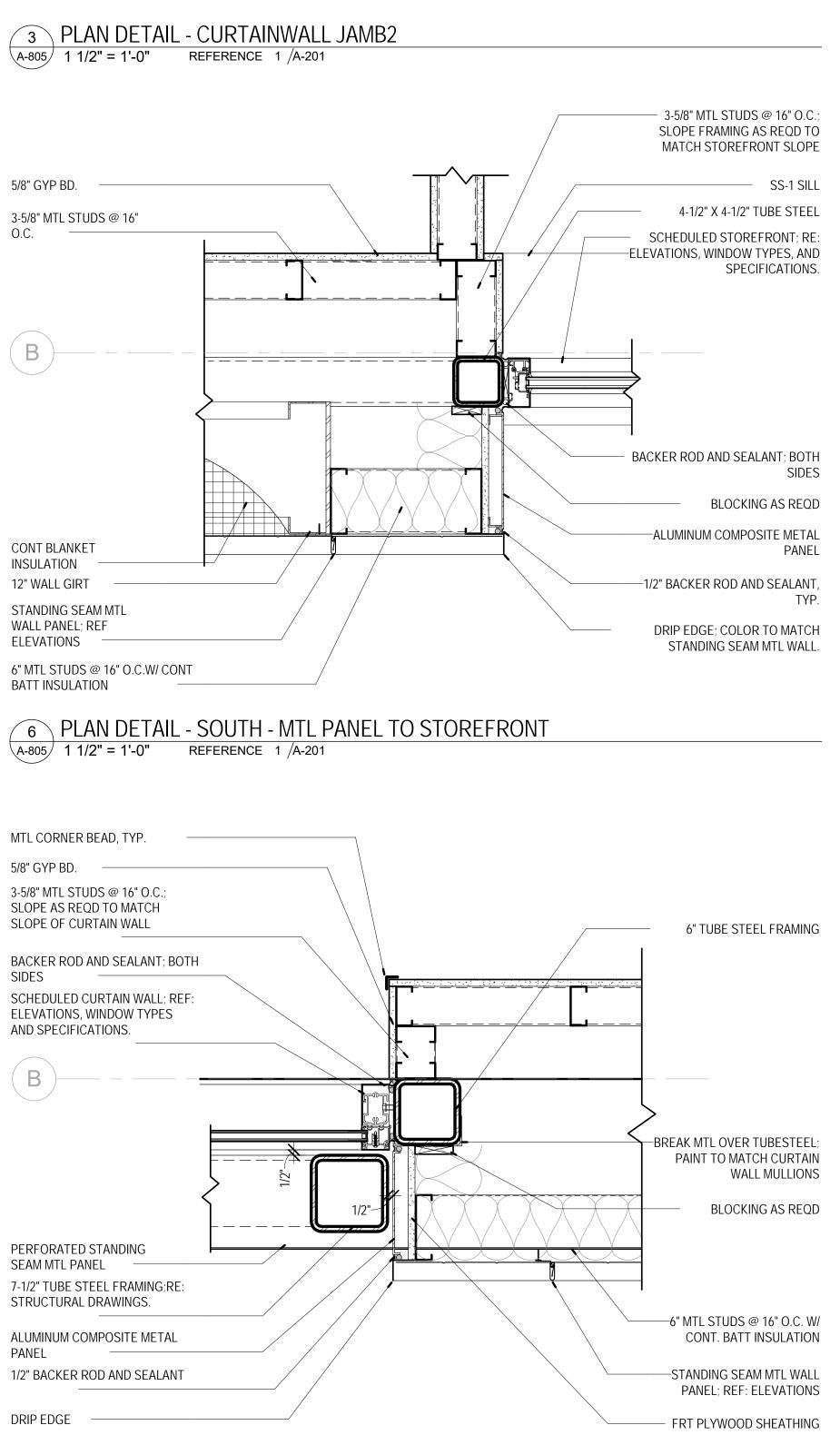


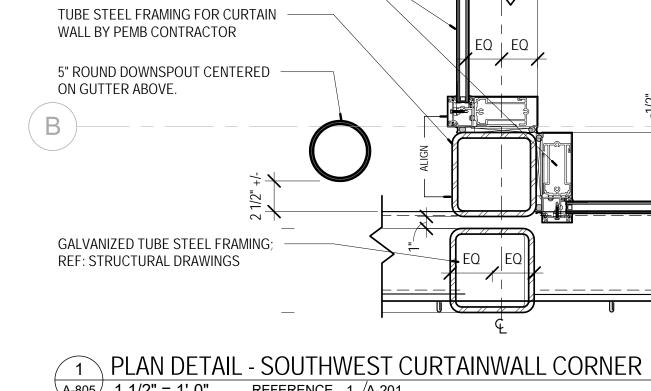






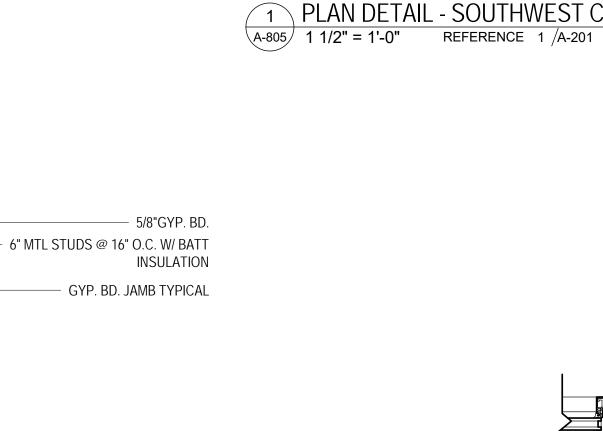






SCHEDULED CURTAN WALL; REF: ELEVATIONS, WINDOW TYPES &

SPECIFICATIONS

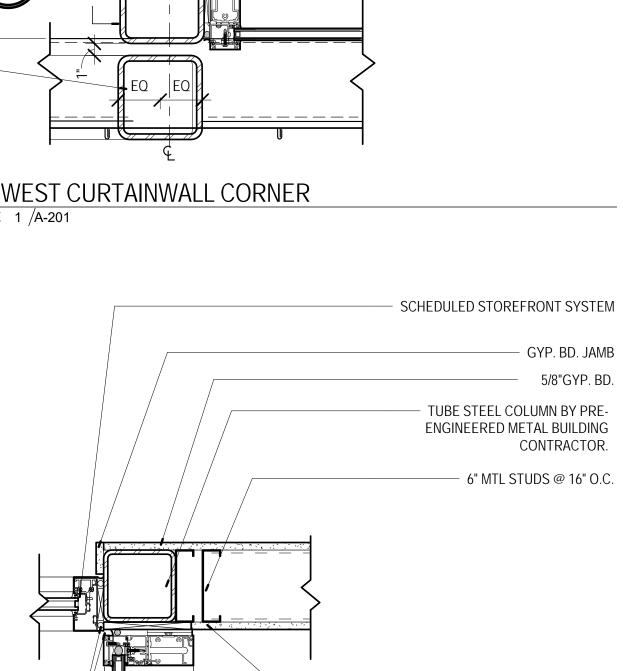


- SCHEDULED STOREFRONT SYSTEM

TYP

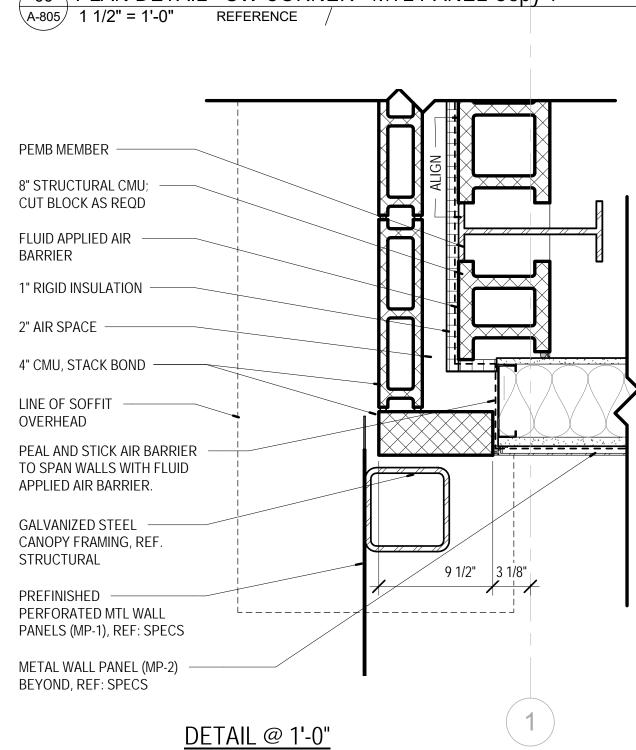
3/4" GYP. SHEATHING

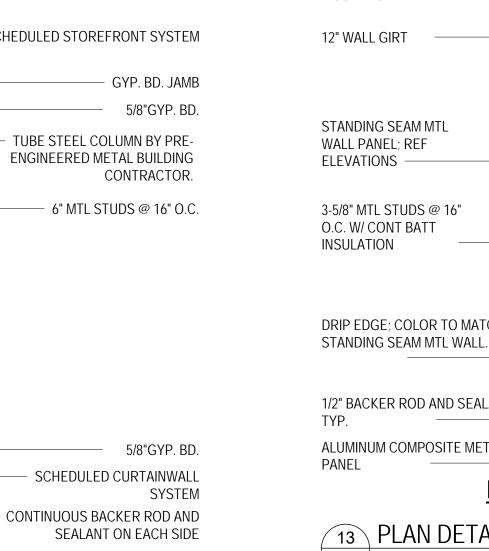
CONTINUOUS BACKER ROD AND SEALANT,



9 PLAN DETAIL - SW CORNER - CURTAIN WALL/PERF PANEL A-805 1 1/2" = 1'-0" REFERENCE 1 /A-201







PEMB MEMBER -

AS REQD

BARRIER

TRIM

W/ CONT BATT

STANDING SEAM MTL

3-5/8" MTL STUDS @ 16" O.C. W/ CONT BATT

STANDING SEAM MTL

DRIP EDGE; COLOR TO MATCH

1/2" BACKER ROD AND SEALANT,

ALUMINUM COMPOSITE METAL

<u>DETAIL @ 4'-0"</u>

66 PLAN DETAIL - SW CORNER - MTL PANEL Copy 1

STANDING SEAM MTL WALL.

WALL PANEL; REF

INSULATION

ELEVATIONS

INSULATION

WALL PANEL

TYP.

PANEL

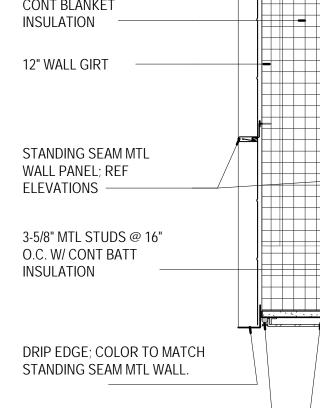
8" STRUCTURAL CMU, -

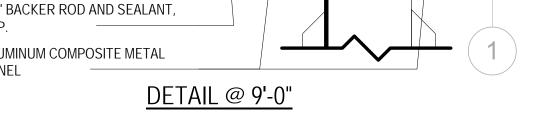
METAL PANEL CLOSURE

6" MTL STUDS @ 16" O.C.

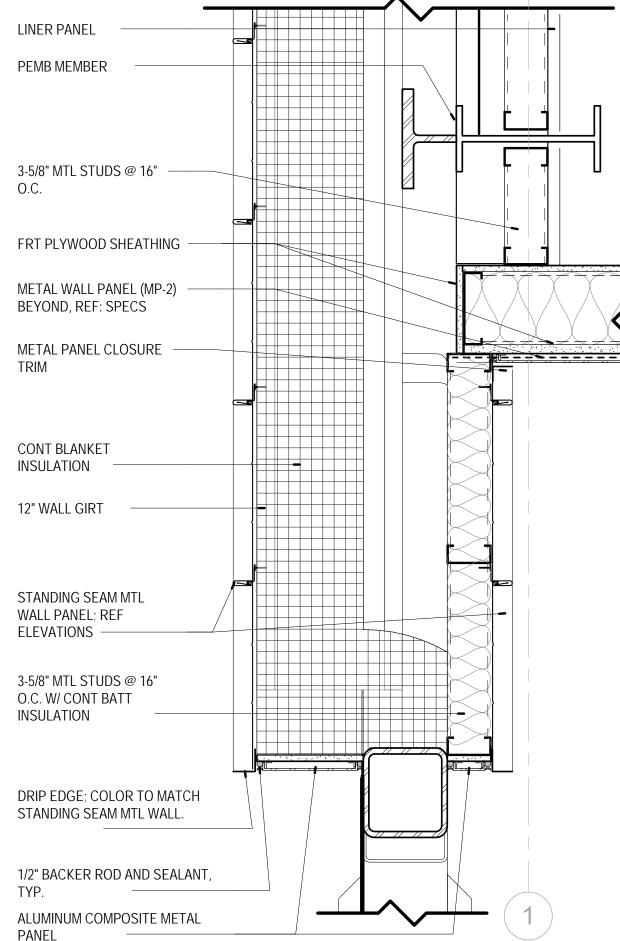
FLUID APPLIED AIR

RUNNING BOND; CUT BLOCK

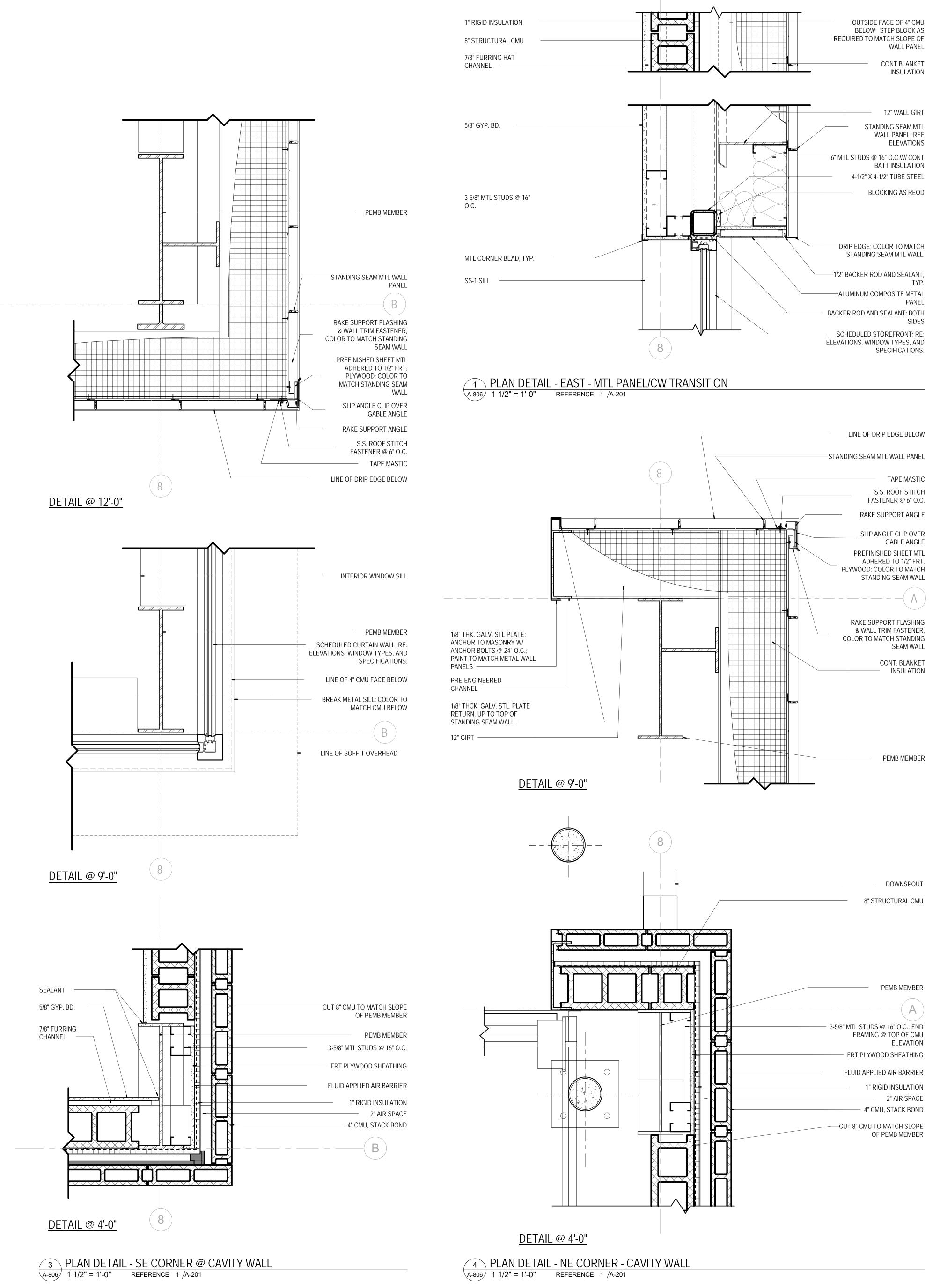








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STANDING SEAM MTL WALL PANEL LINE OF DRIP EDGE BELOW 1/8" THCK. GALV. STL. PLATE RETURN, UP TO TOP OF STANDING SEAM WALL

1/8" THK. GALV. STL PLATE; ANCHOR TO MASONRY W/ ANCHOR BOLTS @ 24" O.C.; PAINT TO MATCH METAL WALL PANELS

PRE-ENGINEERED -CHANNEL 12" GIRT -

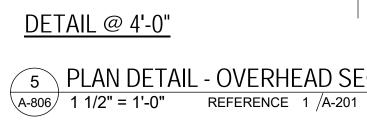
CONT. BLANKET INSULATION

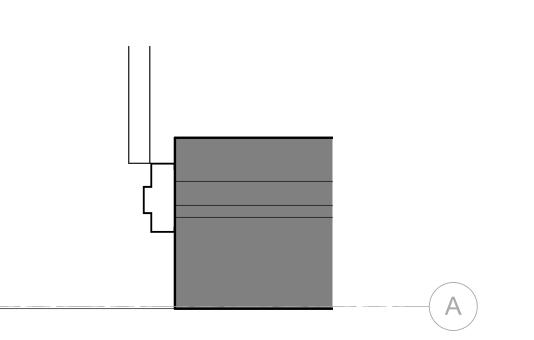
<u>DETAIL @ 9'-0"</u> A-806 1 1/2" = 1'-0" REFERENCE /

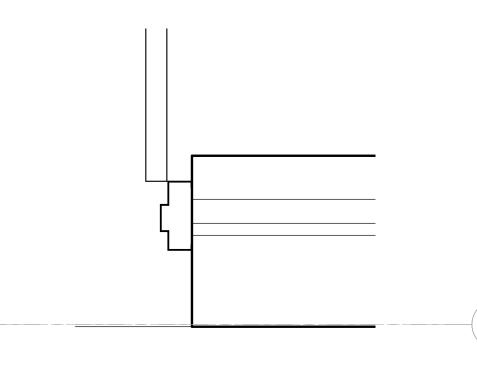
1/8" THK. GALV. STL PLATE; ------ANCHOR TO MASONRY W/ ANCHOR BOLTS @ 24" O.C.; PAINT TO MATCH METAL WALL PANELS

PRE-ENGINEERED CHANNEL SCORE BLOCK AS REQUIRED — TO RECEIVE CHANNEL

OVERHEAD DOOR ——

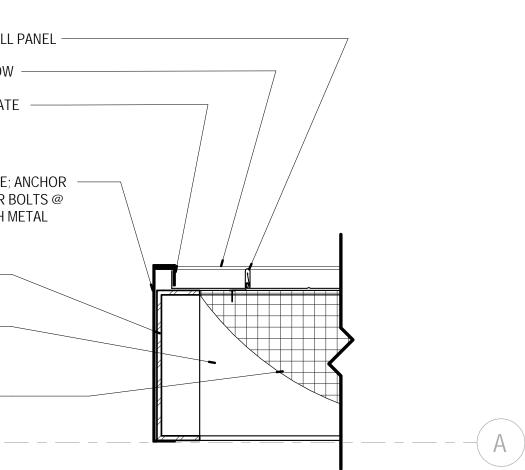




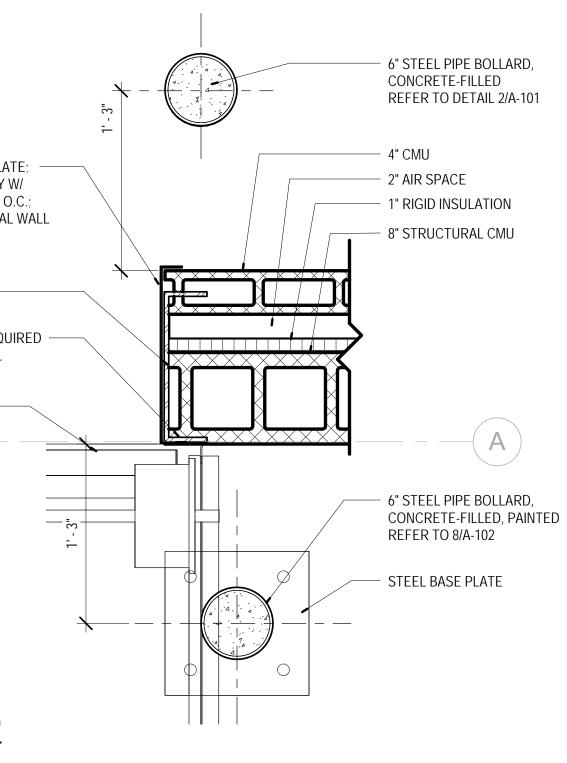


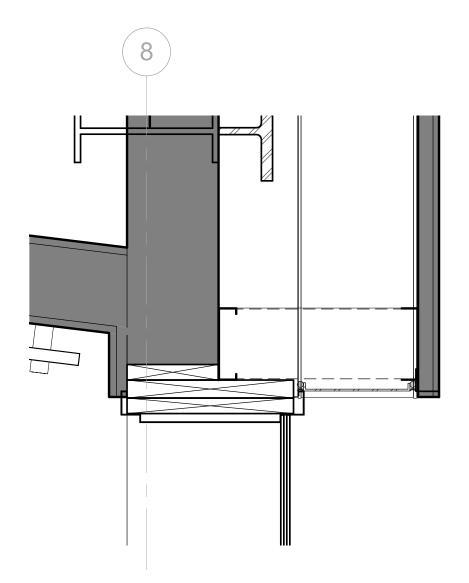
## 2 PLAN DETAIL - DOOR JAMB @ CAVITY WALL, TYP. A-806 1 1/2" = 1'-0" REFERENCE 1 /A-201



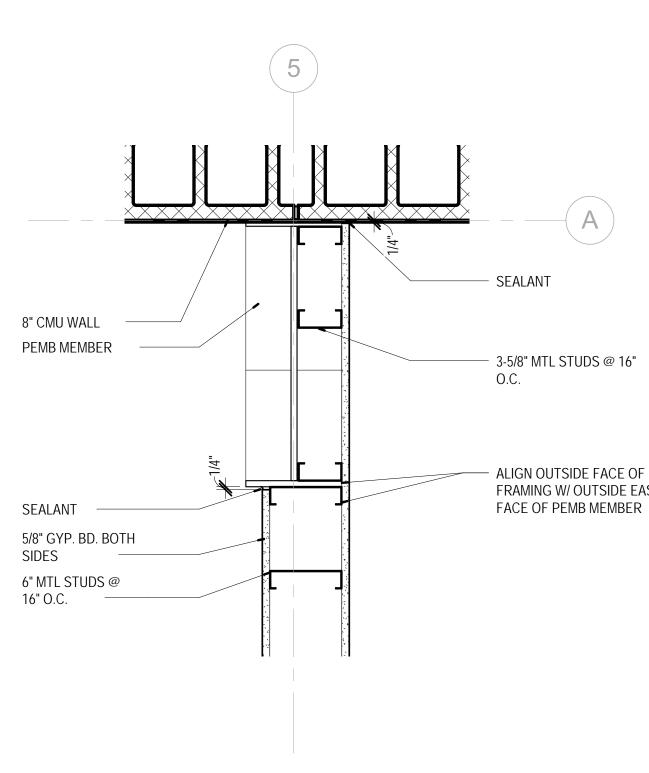


18 PLAN DETAIL - OVERHEAD JAMB DETAIL @ MTL PANEL





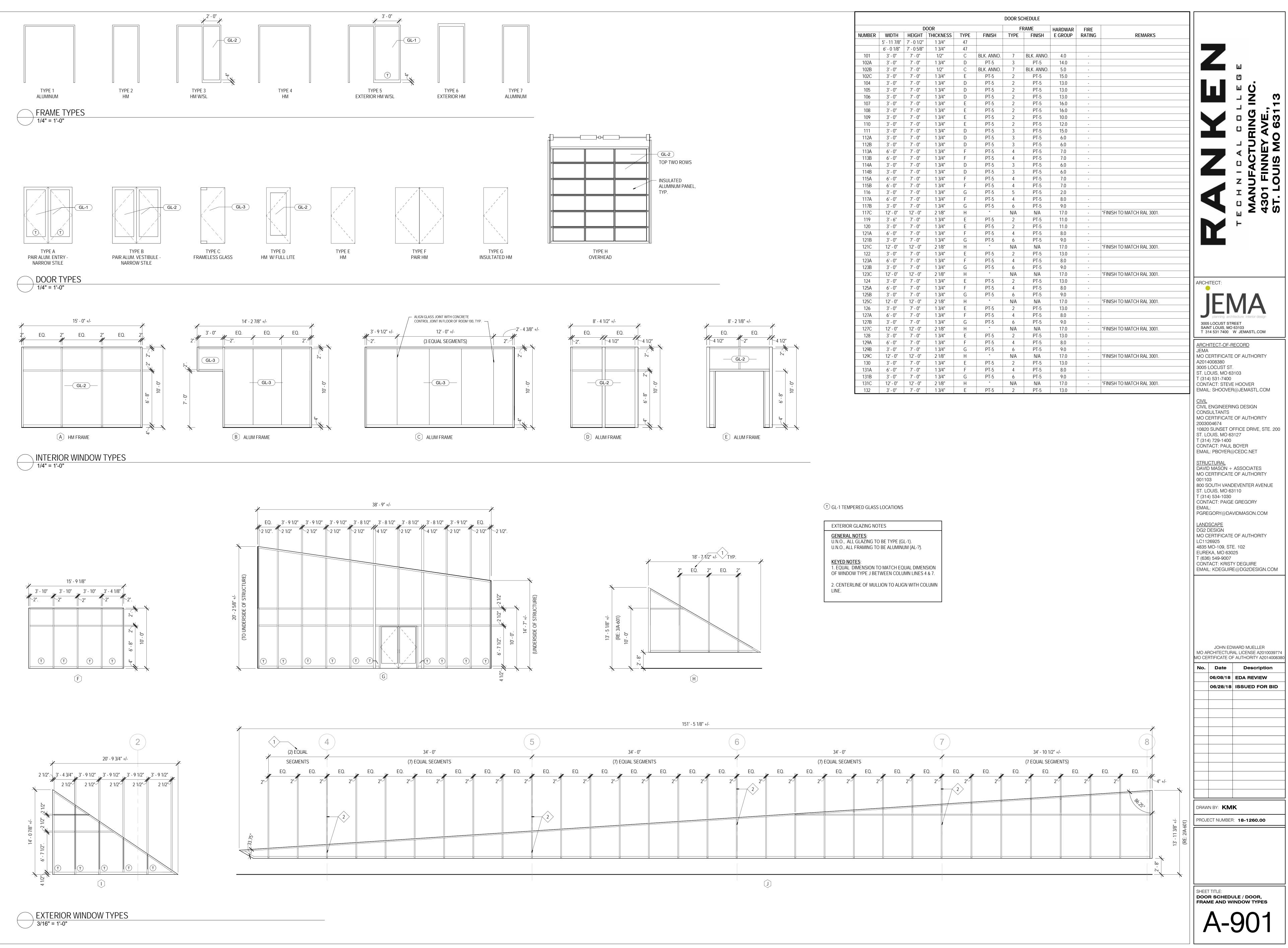
6 PLAN DETAIL - EAST - DOOR JAMB DETAIL A-806 1 1/2" = 1'-0" REFERENCE 1 /A-201



<sup>5</sup> PLAN DETAIL - OVERHEAD SECTIONAL DOOR JAMB

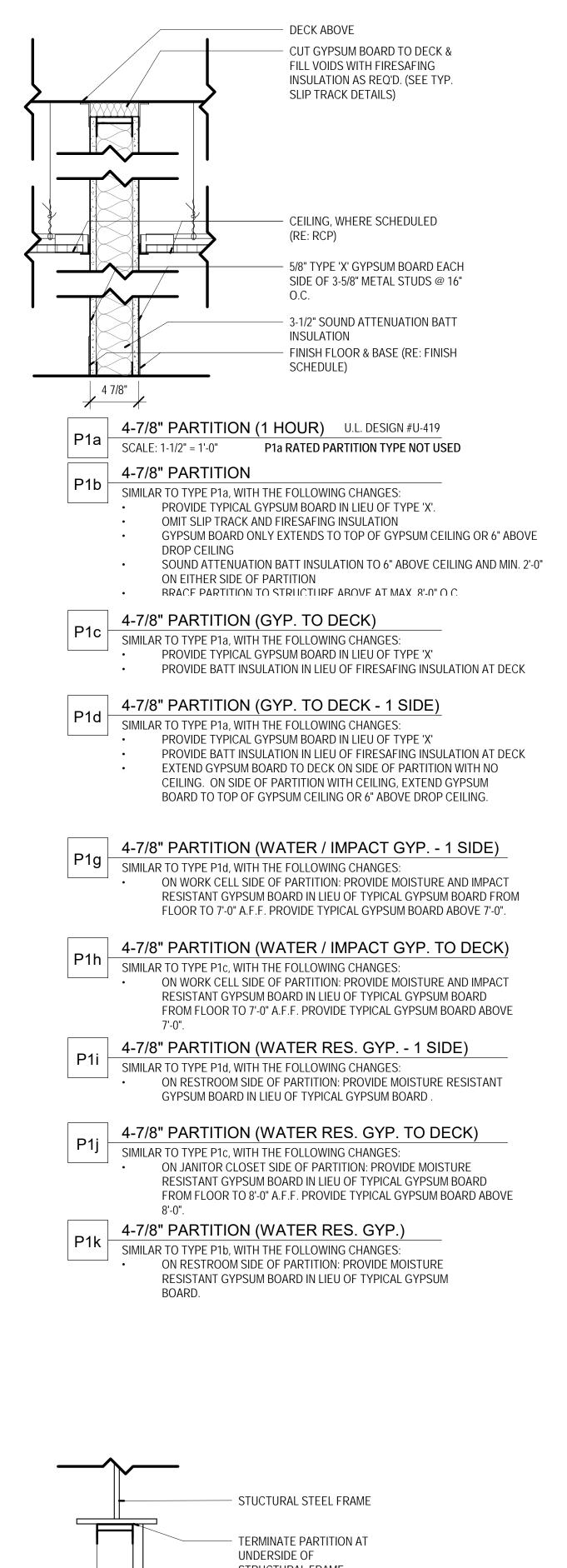
7 PLAN DETAIL - WORKCELL COLUMN, TYP. A-806 1 1/2" = 1'-0" REFERENCE 1 /A-201

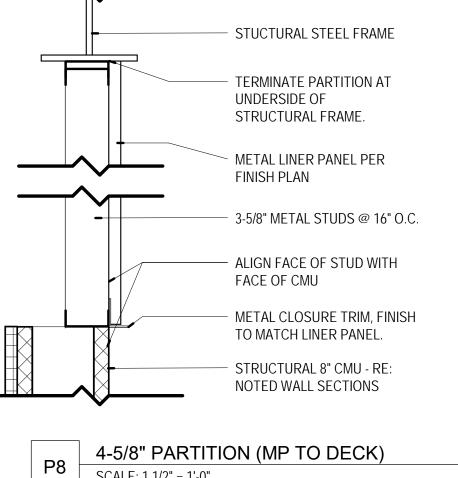




												151' - 5 1/8" +/-		
		(7)	34' - 0" EQUAL SEGMEN	NTS			5		(7)	34' - 0" EQUAL SEGMEN	TS			5
//	EQ.	EQ.	EQ.	EQ.	EQ.	EQ.	EQ.	EQ.		EQ.	EQ.	EQ.	EQ.	EQ.
"	2"-	2"	2"	2"-2	2""	2"	2"	2""	2"	2""	2")	2""	2""	2
							ľ							

	DOOR SCHEDULE									
	DOOR						RAME	HARDWAR	FIRE	
NUMBER	WIDTH	HEIGHT	THICKNESS	TYPE	FINISH	TYPE	FINISH	E GROUP	RATING	REMARKS
	5' - 11 7/8"	7' - 0 1/2"	1 3/4"	47						
	6' - 0 1/8"	7' - 0 5/8"	1 3/4"	47						
101	3' - 0"	7' - 0"	1/2"	С	BLK. ANNO.	7	BLK. ANNO.	4.0	-	
102A	3' - 0"	7' - 0"	1 3/4"	D	PT-5	3	PT-5	14.0	-	
102B	3' - 0"	7' - 0"	1/2"	С	BLK. ANNO.	7	BLK. ANNO.	5.0	-	
102C	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	15.0	-	
104	3' - 0"	7' - 0"	1 3/4"	D	PT-5	2	PT-5	13.0	-	
105	3' - 0"	7' - 0"	1 3/4"	D	PT-5	2	PT-5	13.0	-	
106	3' - 0"	7' - 0"	1 3/4"	D	PT-5	2	PT-5	13.0	-	
107	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	16.0	-	
108	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	16.0	-	
109	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	10.0	-	
110	3' - 0"	7' - 0"	1 3/4"	<u> </u>	PT-5	2	PT-5	12.0	-	
111 112A	3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	D D	PT-5 PT-5	3	PT-5 PT-5	15.0	-	
	3 - 0 3' - 0"	7 - 0	1 3/4	D	PT-5 PT-5	3	PT-5 PT-5	6.0	-	
112B 113A	<u> </u>	7 - 0"	1 3/4	D F	PT-5 PT-5	4	PT-5 PT-5	6.0 7.0	-	
113A 113B	6' - 0"	7 - 0"	1 3/4"	г 	PT-5 PT-5	4	PT-5	7.0	-	
113D	3' - 0"	7 - 0"	1 3/4"	 D	PT-5	3	PT-5	6.0	-	
114A 114B	3' - 0"	7' - 0"	1 3/4"	D	PT-5	3	PT-5	6.0	-	
114D	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	7.0	-	
115A	6' - 0"	7' - 0"	1 3/4"	 F	PT-5	4	PT-5	7.0	-	
116	3' - 0"	7' - 0"	1 3/4"	G	PT-5	5	PT-5	2.0		
117A	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	8.0	-	
117B	3' - 0"	7' - 0"	1 3/4"	G	PT-5	6	PT-5	9.0	-	
117C	12' - 0"	12' - 0"	2 1/8"	Н	*	N/A	N/A	17.0	-	*FINISH TO MATCH RAL 3001.
119	3' - 6"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	11.0	-	
120	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	11.0	-	
121A	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	8.0	-	
121B	3' - 0"	7' - 0"	1 3/4"	G	PT-5	6	PT-5	9.0	-	
121C	12' - 0"	12' - 0"	2 1/8"	Н	*	N/A	N/A	17.0	-	*FINISH TO MATCH RAL 3001.
122	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	13.0	-	
123A	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	8.0	-	
123B	3' - 0"	7' - 0"	1 3/4"	G	PT-5	6	PT-5	9.0	-	
123C	12' - 0"	12' - 0"	2 1/8"	Н	*	N/A	N/A	17.0	-	*FINISH TO MATCH RAL 3001.
124	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	13.0	-	
125A	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	8.0	-	
125B	3' - 0"	7' - 0"	1 3/4"	G	PT-5 *	6	PT-5	9.0	-	
125C	12' - 0"	12' - 0"	2 1/8"	H		N/A	N/A	17.0	-	*FINISH TO MATCH RAL 3001.
126	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	13.0	-	
127A	6' - 0"	7' - 0"	1 3/4"	F	PT-5	4	PT-5	8.0	-	
127B	3' - 0"	7' - 0"	1 3/4"	G	PT-5	6	PT-5 N/A	9.0	-	*FINISH TO MATCH RAL 3001.
127C	12' - 0"	12' - 0"	2 1/8"	<u>Н</u>		N/A		17.0	-	FINISH TO MATCH RAL 3001.
128 129A	3' - 0" 6' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	<u> </u>	PT-5 PT-5	2	PT-5 PT-5	13.0 8.0	-	
129A 129B	8 - 0 3' - 0"	7 - 0	1 3/4	F G	PT-5 PT-5	6	PT-5 PT-5	9.0	-	
129B 129C	12' - 0"	12' - 0"	2 1/8"	H	×	o N/A	N/A	9.0	-	*FINISH TO MATCH RAL 3001.
1290	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	17.0	-	
130 131A	6' - 0"	7 - 0"	1 3/4"	 F	PT-5	4	PT-5	8.0	-	
131A 131B	3' - 0"	7 - 0"	1 3/4"	G	PT-5	6	PT-5	9.0	-	
131D	12' - 0"	12' - 0"	2 1/8"	H	*	N/A	N/A	17.0	-	*FINISH TO MATCH RAL 3001.
1310	3' - 0"	7' - 0"	1 3/4"	E	PT-5	2	PT-5	13.0	-	
102				<u> </u>		<u>~</u>		10.0		1





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

### DECK ABOVE

### CUT GYPSUM BOARD TO DECK & FILL VOIDS WITH FIRESAFING INSULATION AS REQ'D. (SEE TYP. SLIP TRACK DETAILS)

CEILING, WHERE SCHEDULED (RE: RCP)

1/2" REVEAL EQUAL TO FRY REGLET DRM-625-50, COLOR: T.B.D. 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE OF 6" METAL STUDS @ 16" O.C. 3-1/2" SOUND ATTENUATION BATT INSULATION FINISH FLOOR & BASE (RE: FINISH SCHEDULE)

7-1/4" PARTITION (1 HOUR) U.L. DESIGN #U-419 SCALE: 1-1/2" = 1'-0" **P2a RATED PARTITION TYPE NOT USED** 

## 7-1/4" PARTITION (CEMENT BOARD)

7 1/4"

•

•

•

•

7'-0"

DECK

ABOVE 7'-0".

GYPSUM BOARD.

P2a

P2c

P2d

SIMILAR TO TYPE P2a, WITH THE FOLLOWING CHANGES: PROVIDE TYPICAL GYPSUM BOARD IN LIEU OF TYPE 'X'

AT EXTENT OF WALL TILE : PROVIDE CEMENT BOARD IN LIEU OF OMIT SLIP TRACK AND FIRESAFING INSULATION GYPSUM BOARD ONLY EXTENDS TO TOP OF GYPSUM CEILING OR

6" ABOVE DROP CEILING SOUND ATTENUATION BATT INSULATION TO 6" ABOVE CEILING AND MIN. 2'-0" ON EITHER SIDE OF PARTITION • BRACE PARTITION TO STRUCTURE ABOVE AT MAX. 8'-0" O.C.

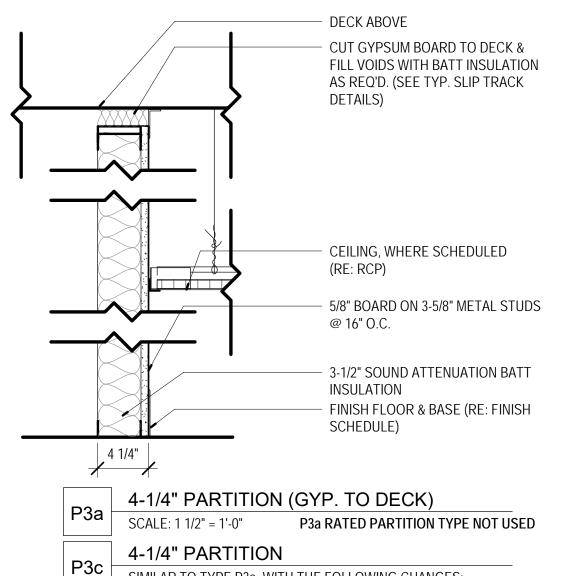
7-1/4" PARTITION (GYP. TO DECK) SIMILAR TO TYPE P2a, WITH THE FOLLOWING CHANGES: • PROVIDE TYPICAL GYPSUM BOARD IN LIEU OF TYPE 'X' . PROVIDE BATT INSULATION IN LIEU OF FIRESAFING INSULATION AT DECK

7-1/4" PARTITION (WATER / IMPACT GYP. - 1 SIDE) SIMILAR TO TYPE P2a, WITH THE FOLLOWING CHANGES: ON WORK CELL SIDE OF PARTITION: PROVIDE MOISTURE AND IMPACT RESISTANT GYPSUM BOARD IN LIEU OF TYPE 'X' FROM FLOOR TO 7'-0" A.F.F. PROVIDE TYPICAL GYPSUM BOARD IN LIEU OF TYPE 'X' ABOVE

 PROVIDE BATT INSULATION IN LIEU OF FIRESAFING INSULATION AT EXTEND GYPSUM BOARD TO DECK ON SIDE OF PARTITION WITH NO

CEILING. ON SIDE OF PARTITION WITH CEILING, EXTEND GYPSUM BOARD TO TOP OF GYPSUM CEILING OR 6" ABOVE DROP CEILING. 7-1/4" PARTITION (WATER / IMPACT GYP. TO DECK)

P2g SIMILAR TO TYPE P2c, WITH THE FOLLOWING CHANGES: ON WORK CELL SIDE(S) OF PARTITION: PROVIDE MOISTURE AND IMPACT RESISTANT GYPSUM BOARD IN LIEU OF TYPICAL GYPSUM BOARD FROM FLOOR TO 7'-0" A.F.F. PROVIDE TYPICAL GYPSUM BOARD

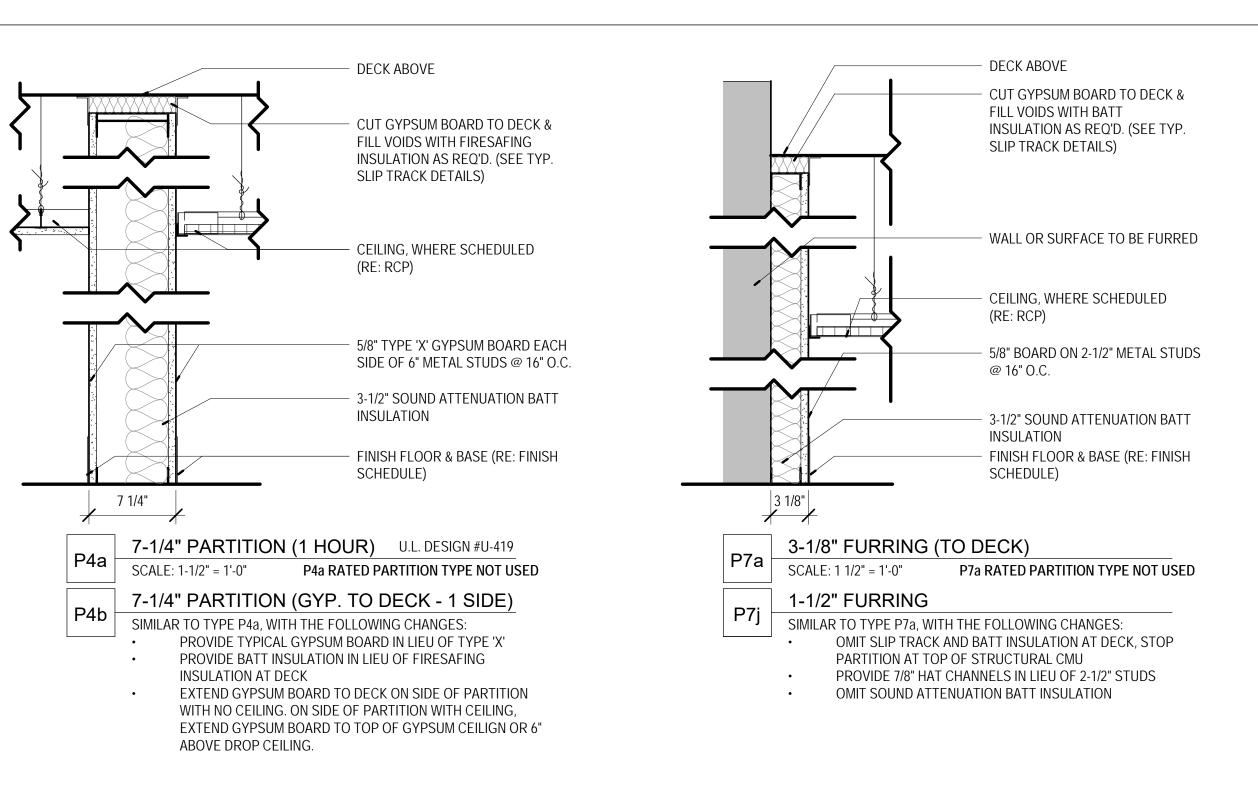


SIMILAR TO TYPE P3a, WITH THE FOLLOWING CHANGES:

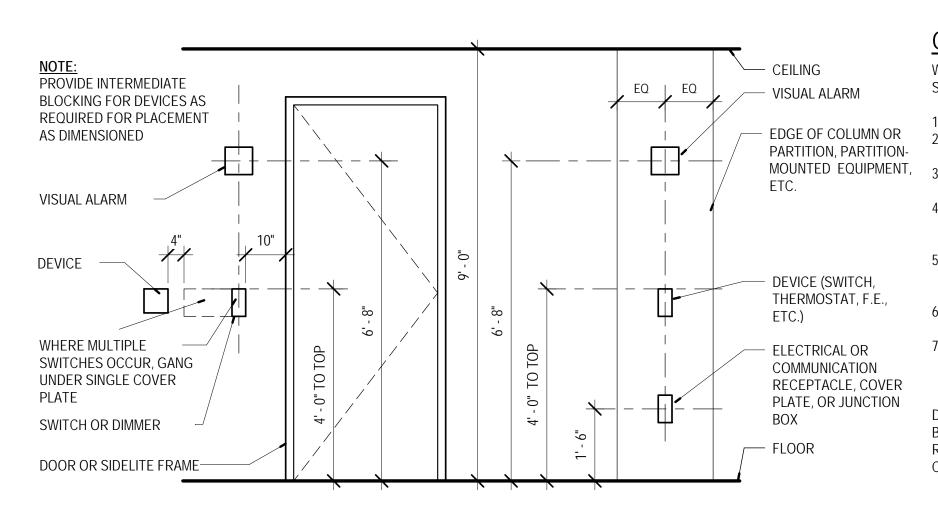
OMIT SLIP TRACK AND BATT INSULATION AT DECK GYPSUM BOARD ONLY EXTENDS TO TOP OF GYPSUM •

CEILING OR 6" ABOVE DROP CEILING

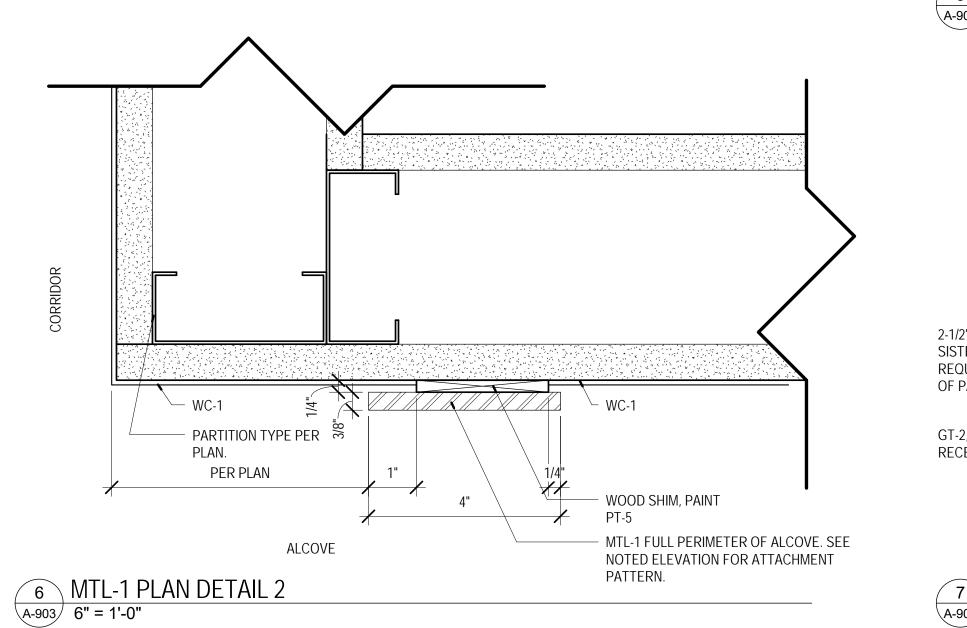
BRACE PARTITION TO DECK AT MAX. 8'-0" O.C. IF NOT USED AS FURRING WALL



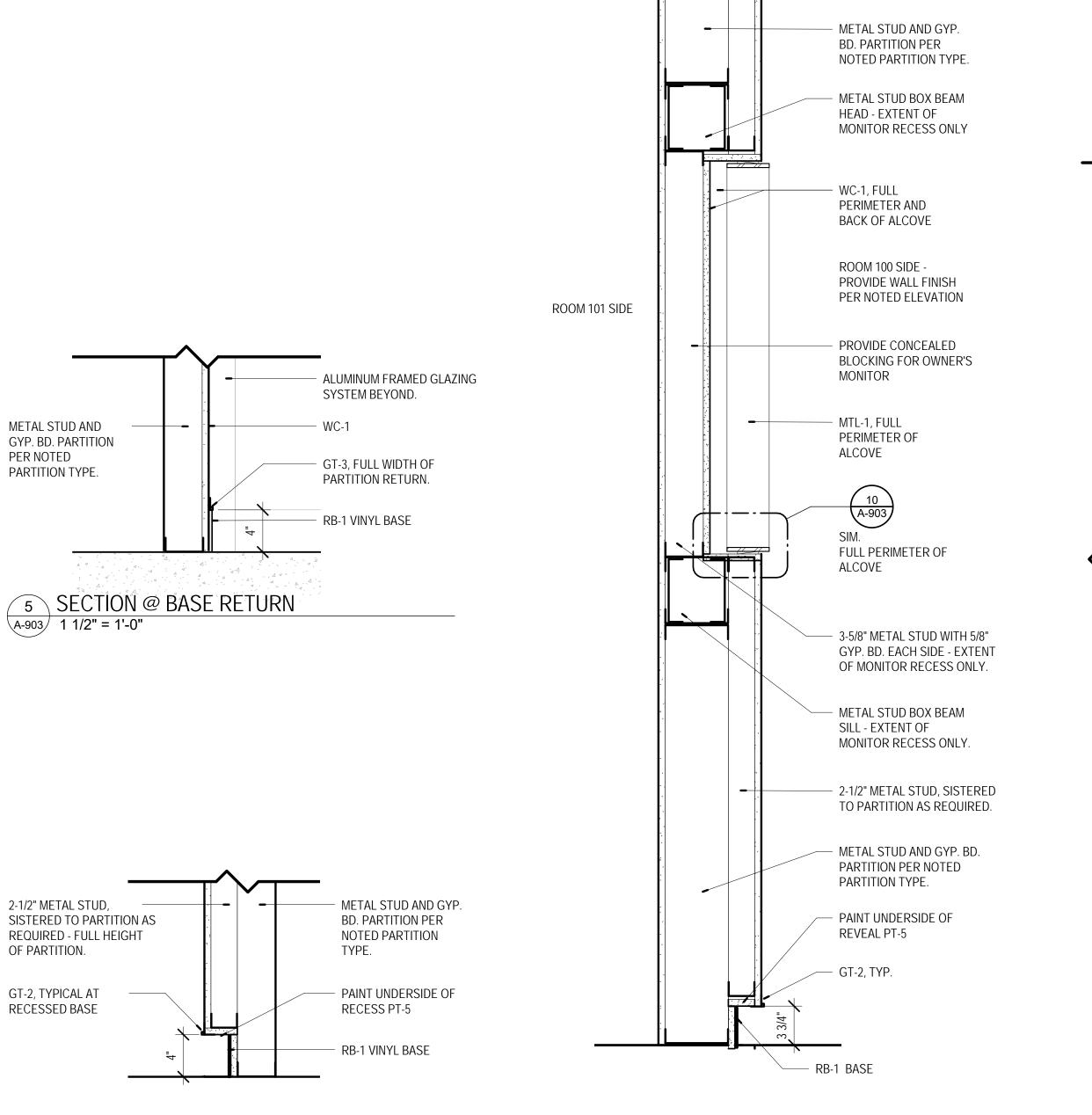
шО Ζ က Шσ > 0 0 Ő 4 N ARCHITECT: 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET STRUCTURAL DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: Author PROJECT NUMBER: **18-1260.00** SHEET TITLE: **PARTITION TYPES** 



1 DEVICE LOCATION DIAGRAM A-903 1/2" = 1'-0"



PER NOTED



### **GENERAL NOTES: DEVICE LOCATIONS**

WHEN MOUNTING MULTIPLE DEVICES FROM DIFFERENT TRADES IN THE SAME LOCATION (SUCH AS LIGHTING SWITCHES, THERMOSTATS, ETC.), THEIR ARRANGEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- LOCATE DEVICES AS SHOWN ON THE ARCHITECTURAL PLANS, ELEVATIONS OR SECTIONS. MULTIPLE DEVICES MOUNTED ON A SINGLE WALL OR IN THE SAME AREA OF A WALL ARE TO BE GROUPED
- TOGETHER AND ARRANGED AS INDICATED HERE. WHERE DEVICE LOCATIONS ARE SHOWN ELSEWHERE IN THE ARCHITECTURAL DRAWINGS, THOSE
- LOCATIONS ARE TO BE THE BASIS FOR ARRANGING OTHER DEVICES IN THE SAME AREA. DEVICES, WHETHER SHOWN ON ARCHITECTURAL, ELECTRICAL, MECHANICAL OR OTHER DRAWINGS ARE TO
- BE ARRANGED AND LOCATED AS INDICATED HERE, WITH UNIFORM SPACING BETWEEN DEVICES AND HORIZONTAL AND VERTICAL ALIGNMENTS AS SHOWN. PRIOR TO INSTALLATION OF DEVICES IN EXPOSED MASONRY OR MATERIALS SUCH AS WOOD PANELS, WALL
- COVERING OR OTHER NON-PAINTED SURFACES, THE CONTRACTOR SHALL REVIEW PROPOSED LOCATIONS WITH THE ARCHITECT TO DETERMINE THE LOCATION OF DEVICES. OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO INSTALLATION WHERE THERE ARE QUESTIONS
- ABOUT CORRECT LOCATIONS OF DEVICES. WHERE DEVICES ARE INSTALLED WITHOUT THE ARCHITECT'S APPROVAL, OR CONTRARY TO THESE LOCATION GUIDELINES, DEVICES WILL BE RELOCATED PER THESE GUIDELINES AS ACCEPTABLE TO THE ARCHITECT AT THE GENERAL CONTRACTOR'S EXPENSE.

DEVIATIONS FROM THE ABOVE PRINCIPLES WITHOUT PRIOR APPROVAL BY THE ARCHITECT SHALL BE CORRECTED BY THE INSTALLING CONTRACTOR AT NO EXPENSE TO THE CLIENT. ALL COSTS ASSOCIATED WITH THE REMOVAL, RELOCATION, AND REINSTALLATION OF ANY DEVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, INCLUDING THE COSTS OF CUTTING, PATCHING, REWIRING, REPAIRING OR REPLACING FINISHES, ETC.

2-1/2" METAL STUD,

AS REQUIRED.

SISTERED TO PARTITION

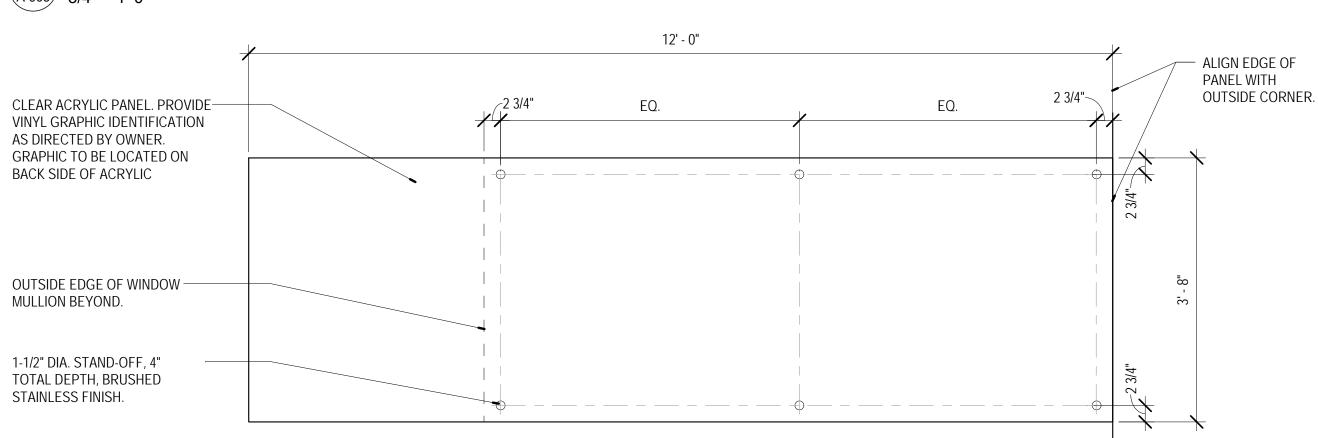


7 SECTION @ RECESSED BASE A-903 1 1/2" = 1'-0"

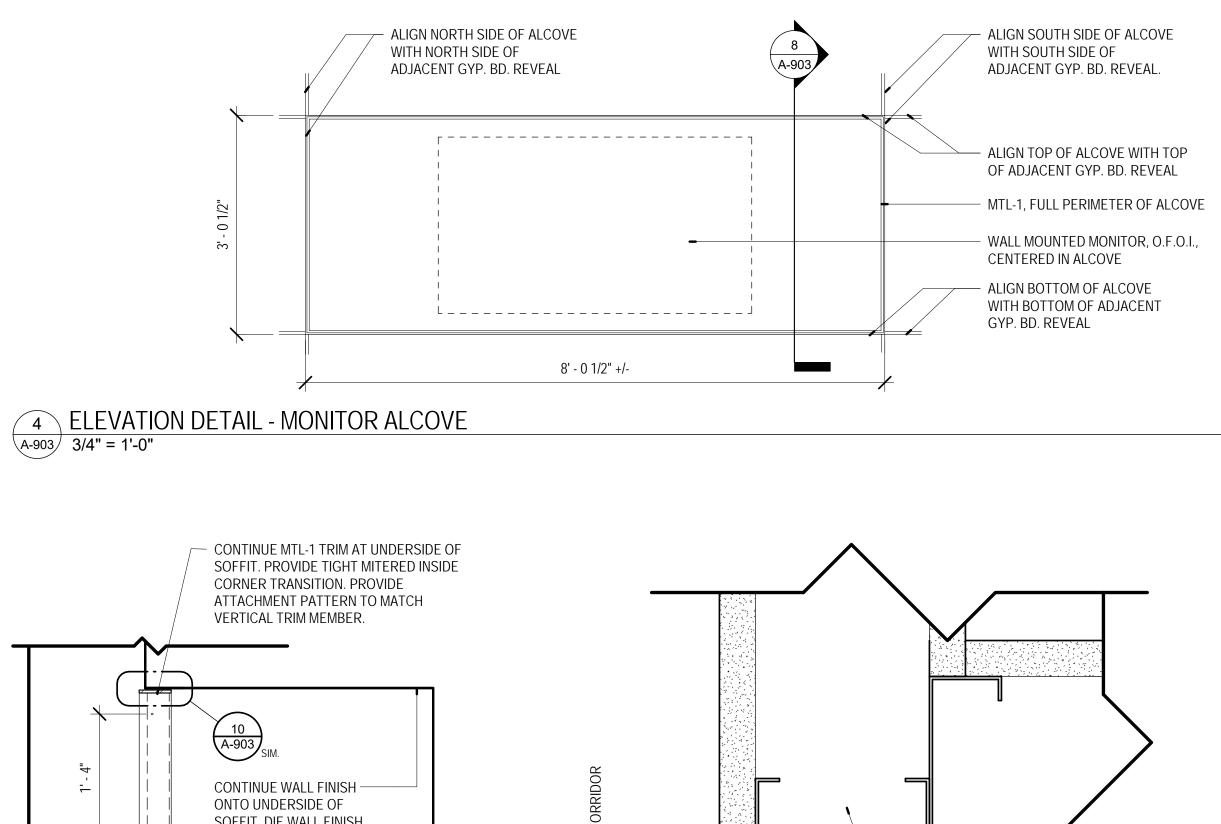
8 SECTION @ MONITOR ALCOVE A-903 1 1/2" = 1'-0"

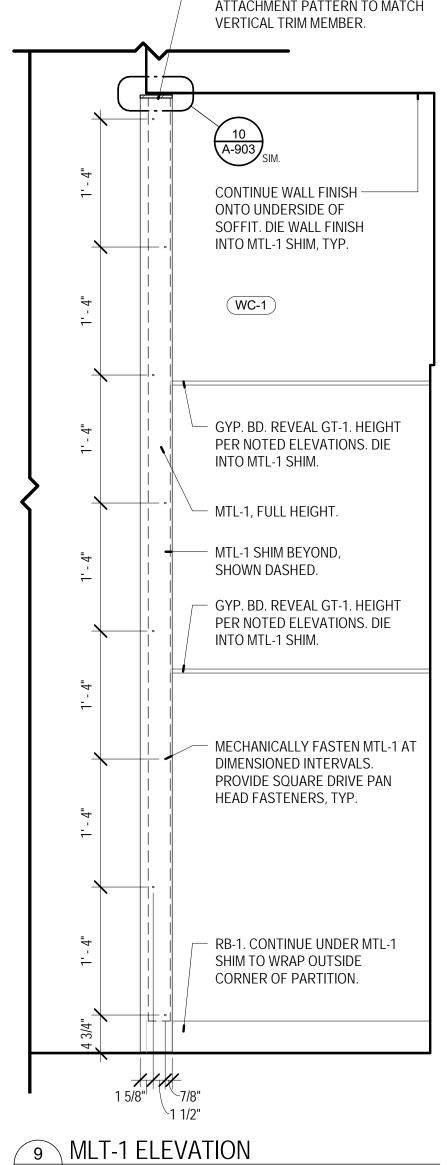


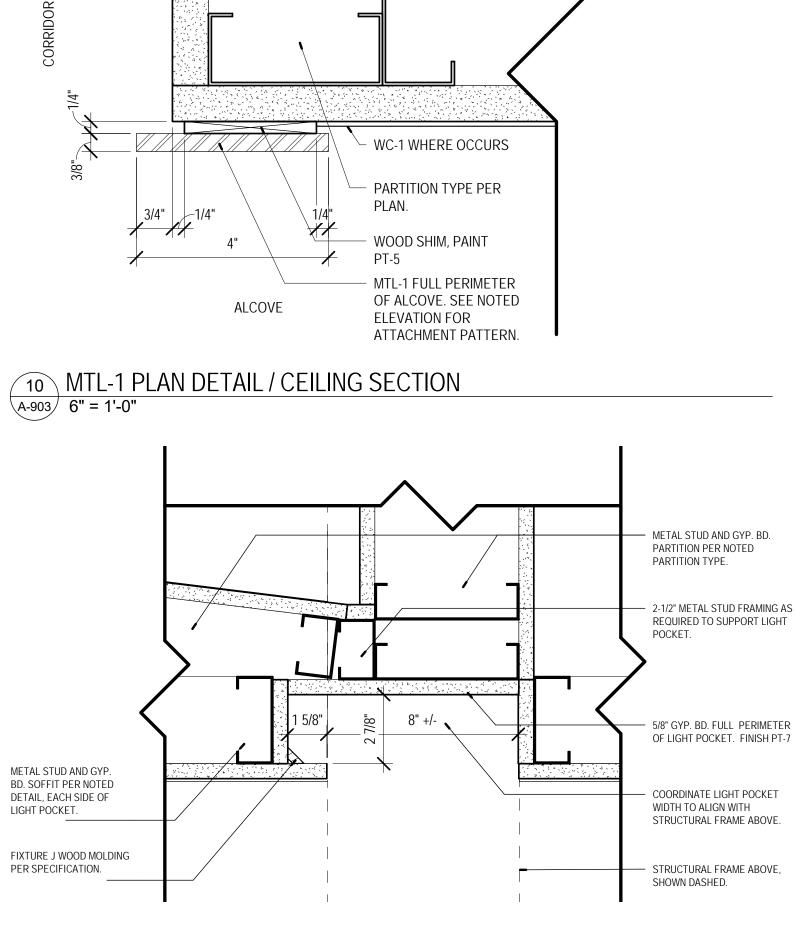
# 2 LOBBY SIGN A-903 3/4" = 1'-0"



# 3 WORK CELL SIGNAGE A-903 3/4" = 1'-0"

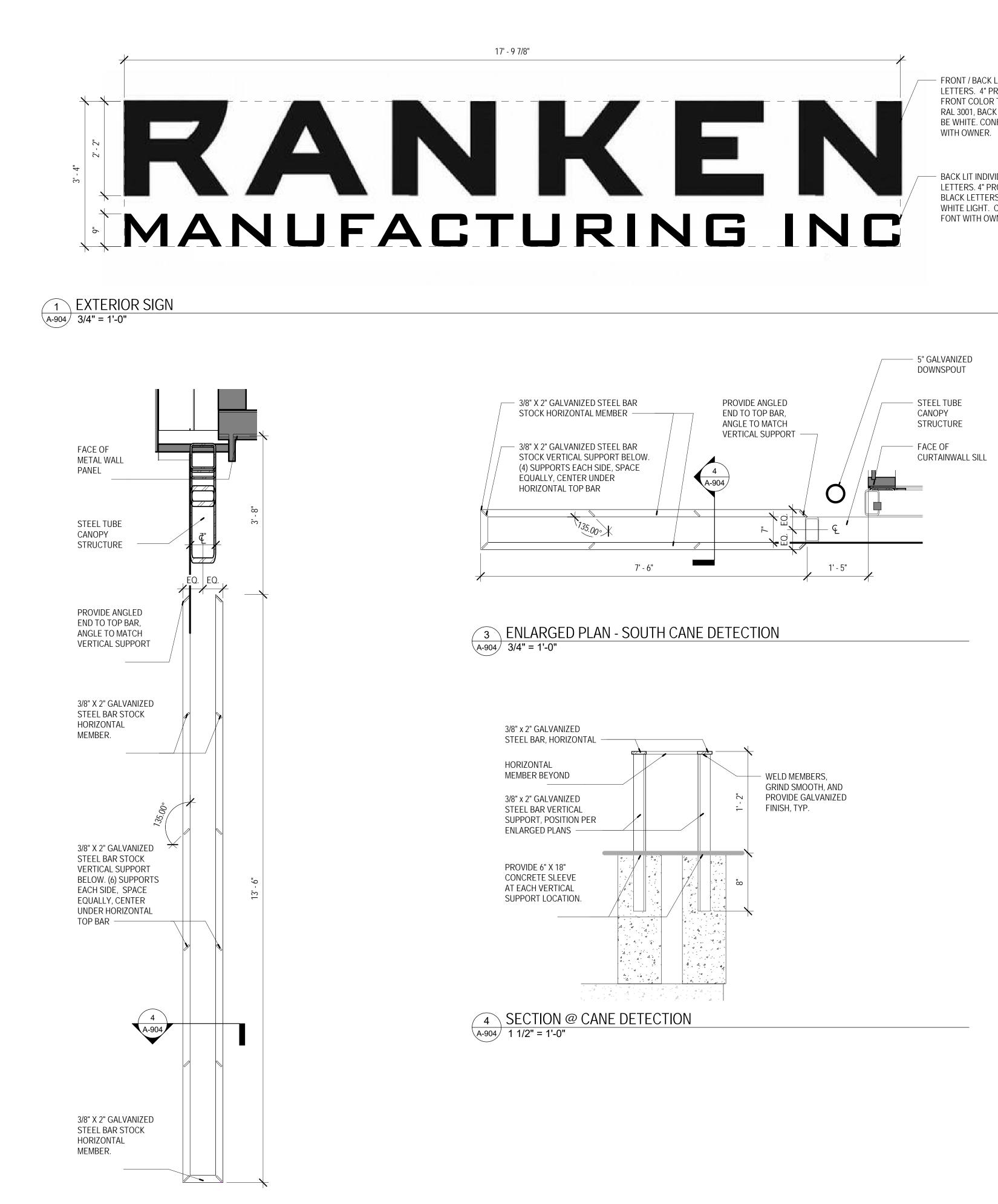






(11) PLAN DETAIL @ VERTICAL LIGHT POCKET A-903 3" = 1'-0"



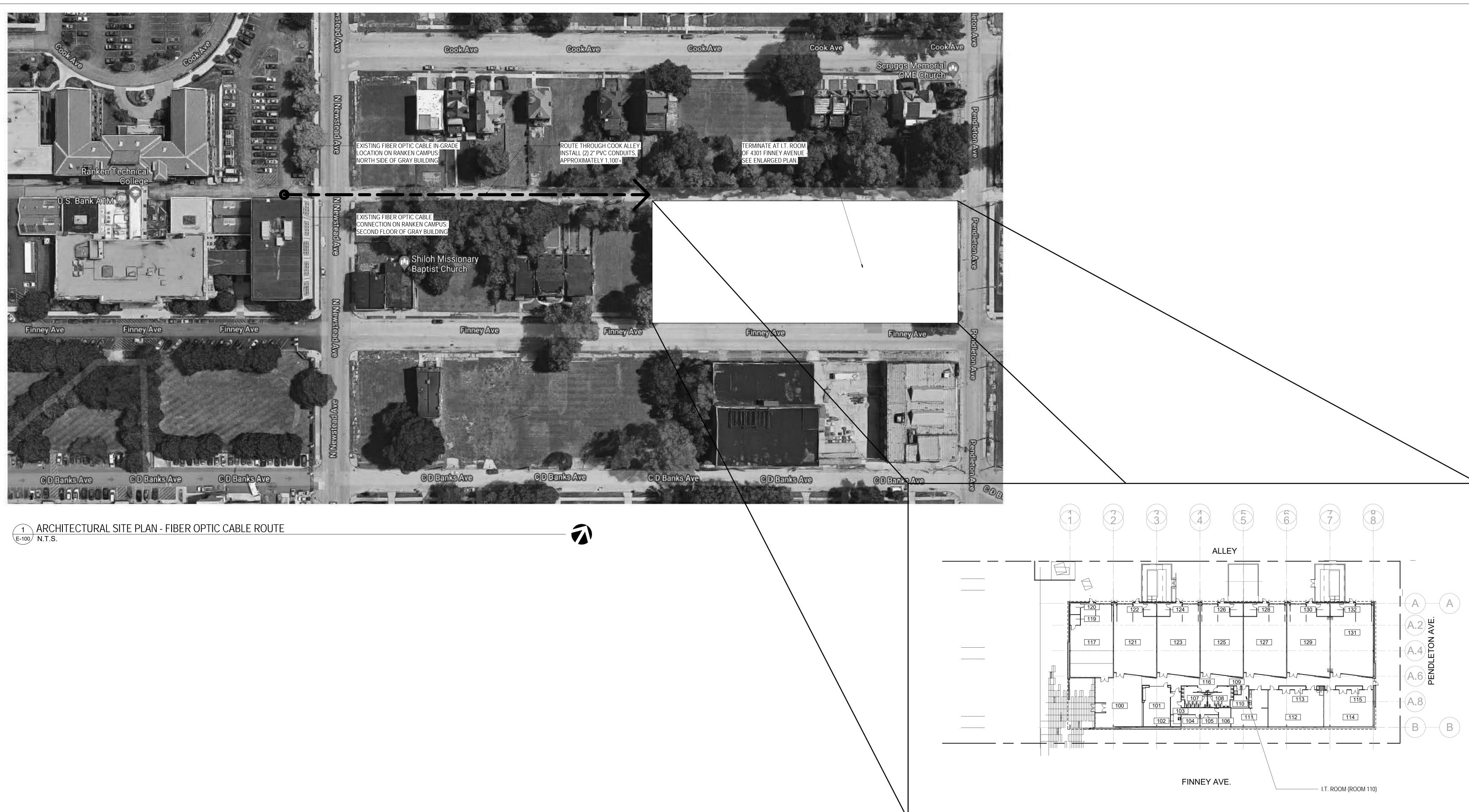


2 ENLARGED PLAN - WEST CANE DETECTION A-904 3/4" = 1'-0"

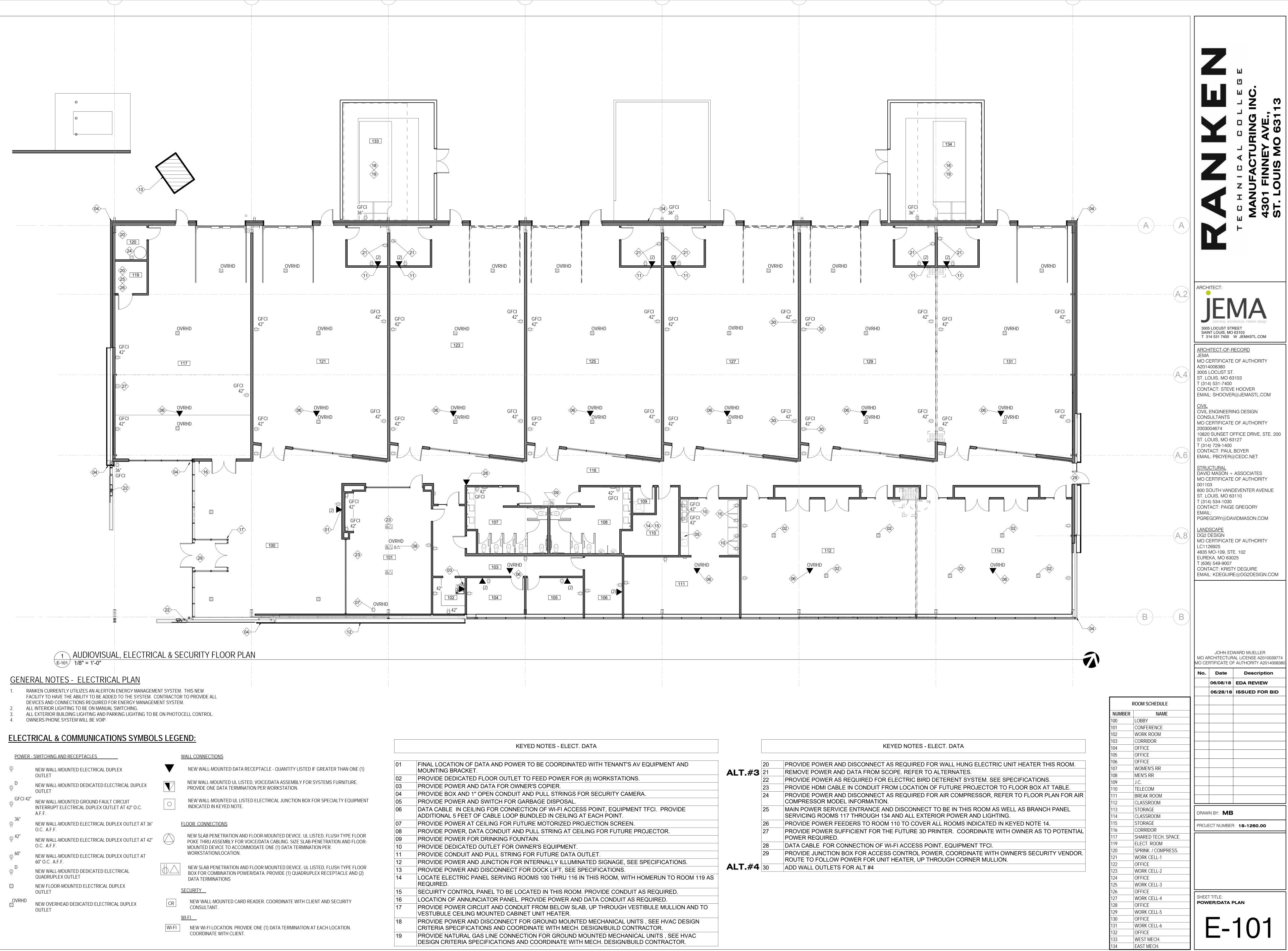
- FRONT / BACK LIT 3D LETTERS. 4" PROJECTION, FRONT COLOR TO MATCH RAL 3001, BACK LIGHT TO BE WHITE. CONFIRM FONT

BACK LIT INDIVIDUAL 3D LETTERS. 4" PROJECTION, BLACK LETTERS WITH WHITE LIGHT. CONFIRM FONT WITH OWNER.

шО က Ο 43 ST ARCHITECT 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/08/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: Author PROJECT NUMBER: **18-1260.00** SHEET TITLE: DETAILS - EXTERIOR



 $\mathbf{r}$ 4 N ARCHITECT: IE' 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD JEMA MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM <u>CIVIL</u> CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTÁCT: PAIGE GREGORY EMAIL: PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039774 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 06/07/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: Author PROJECT NUMBER: 18-1260.00 SHEET TITLE: FIBER OPTIC CABLE ROUTE E-100



		KEYED NOTES - ELECT. DATA	
)	01	FINAL LOCATION OF DATA AND POWER TO BE COORDINATED WITH TENANT'S AV EQUIPMENT AND MOUNTING BRACKET.	ALT.#
	02	PROVIDE DEDICATED FLOOR OUTLET TO FEED POWER FOR (8) WORKSTATIONS.	
	03	PROVIDE POWER AND DATA FOR OWNER'S COPIER.	
	04	PROVIDE BOX AND 1" OPEN CONDUIT AND PULL STRINGS FOR SECURITY CAMERA.	
NT	05	PROVIDE POWER AND SWITCH FOR GARBAGE DISPOSAL.	
	06	DATA CABLE IN CEILING FOR CONNECTION OF WI-FI ACCESS POINT, EQUIPMENT TFCI. PROVIDE ADDITIONAL 5 FEET OF CABLE LOOP BUNDLED IN CEILING AT EACH POINT.	
	07	PROVIDE POWER AT CEILING FOR FUTURE MOTORIZED PROJECTION SCREEN.	
<b>D</b>	08	PROVIDE POWER, DATA CONDUIT AND PULL STRING AT CEILING FOR FUTURE PROJECTOR.	
R R-	09	PROVIDE POWER FOR DRINKING FOUNTAIN.	
	10	PROVIDE DEDICATED OUTLET FOR OWNER'S EQUIPMENT.	
	11	PROVIDE CONDUIT AND PULL STRING FOR FUTURE DATA OUTLET.	
	12	PROVIDE POWER AND JUNCTION FOR INTERNALLY ILLUMINATED SIGNAGE, SEE SPECIFICATIONS.	
R	13	PROVIDE POWER AND DISCONNECT FOR DOCK LIFT, SEE SPECIFICATIONS.	ALT.#
1	14	LOCATE ELECTRIC PANEL SERVING ROOMS 100 THRU 116 IN THIS ROOM, WITH HOMERUN TO ROOM 119 AS REQUIRED.	
	15	SECUIRTY CONTROL PANEL TO BE LOCATED IN THIS ROOM. PROVIDE CONDUIT AS REQUIRED.	
	16	LOCATION OF ANNUNCIATOR PANEL. PROVIDE POWER AND DATA CONDUIT AS REQUIRED.	
	17	PROVIDE POWER CIRCUIT AND CONDUIT FROM BELOW SLAB, UP THROUGH VESTIBULE MULLION AND TO VESTUBULE CEILING MOUNTED CABINET UNIT HEATER.	
	18	PROVIDE POWER AND DISCONNECT FOR GROUND MOUNTED MECHANICAL UNITS , SEE HVAC DESIGN CRITERIA SPECIFICATIONS AND COORDINATE WITH MECH. DESIGN/BUILD CONTRACTOR.	
	19	PROVIDE NATURAL GAS LINE CONNECTION FOR GROUND MOUNTED MECHANICAL UNITS , SEE HVAC DESIGN CRITERIA SPECIFICATIONS AND COORDINATE WITH MECH. DESIGN/BUILD CONTRACTOR.	

PART	1 - DESIGN CRITERIA / GENERAL REQUIREMENTS
A. E	DESIGN CRITERIA Building code: ICC International Building Code, 2015 Edition Bravity Design Loads:
1.	Dead Load: Material self-weight. Roof Live Load:
	<ul><li>a. Uniform Live Load: 20 psf</li><li>b. Snow Load: Ground Snow Load, Pg: 20 psf</li></ul>
	Flat Roof Snow Load, Pf: 14 psf Snow Exposure Factor, Ce: 1.0 Snow Importance Factor, Is: 1.0
3.	Snow Thermal Factor, Ct: 1.0 Uniform Floor Live Load[s] Floor Load: 250 psf
4.	Corridors: 100 psf Concentrated Floor Live Loads:
	<ul> <li>a. Loads are distributed over an area of 2-1/2 sq. ft., unless noted otherwise.</li> <li>Offices: 2000 lb.</li> </ul>
	Schools: 1000 lb. Garage – Passenger: 2000 lb. (over 20 sq. in.) Sidewalks subject to trucking: 8000 lb.
	ateral loads: Wind Load: a. Basic Wind Speed, V: 115 MPH
	<ul><li>b. Wind Importance Factor, Iw: 1.0</li><li>c. Wind Directionality Factor, Kd: 0.85</li></ul>
	<ul> <li>d. Wind Topographic Factor, Kzt: 1.0</li> <li>e. Wind Exposure Category: B</li> <li>f. Gust – effect factor, Gf: 0.85</li> </ul>
2	<ul> <li>g. Internal Pressure Coefficient: +/- 0.18</li> <li>h. Components &amp; Cladding Load: 32 PSF @ walls &amp; 56 PSF @ roof Seismic Load:</li> </ul>
	<ul> <li>a. Seismic Importance Factor, le: 1.0</li> <li>b. Seismic Design Category: D</li> <li>c. Ss = 0.60 S1 = 0.18</li> </ul>
_	d. Site Class: D e. Sds = 0.528 Sd1 = 0.245
1.	Soil Parameters: Active design pressure is equal to an equivalent fluid pressure of [60] pcf.
	At rest design pressure is equal to an equivalent fluid pressure of [60] pcf. Passive design pressure is equal to an equivalent fluid pressure of
4.	[250] pcf. Surcharge loads are 250 psf at the surface.
	Coefficient of sliding friction: concrete/soil = 0.35
A. (	GENERAL REQUIREMENTS
1.	Contractor agrees that Contractor shall assume sole and complete responsibility for job site conditions during the course of the Work, including safety of all persons and property; that this requirement shall apply
	continuously and not be limited to normal working hours; and that Contractor shall defend, indemnify and hold David Mason & Associates
	harmless from any and all liability, real or alleged, in connection with the performance of the Work on this Project, excepting for liability arising from the sole negligence of David Mason & Associates.
2.	The Contract Documents represent the finished structure. They do not include the method of construction. Contractor shall provide all measures necessary to protect the new and existing structures during
	construction. Such measures shall include, but not be limited to: bracing, earth retention systems, shoring for loads due to construction
	equipment, temporary structures, and partially completed work. Observation visits to the site by David Mason & Associates shall not include inspection of the above items.
3.	The Contract Documents do not account for the effects of thermal movement of structural elements during the course of the Work. The Contractor shall be responsible for considering the impact of thermal movements
	during construction. Expansion joints indicated on the Contract Documents are located and dimensioned as required for the completed
4.	structure. David Mason & Associates shall not have control over or charge of and shall not be responsible in any way for construction means, methods,
	techniques, sequences, or procedures, or for safety or safety precautions and programs in connection with any construction activities, since these are solely Contractor's responsibility under the Contract.
5.	David Mason & Associates shall not be responsible for Contractor's schedule or failures to carry out any construction activities in accordance with the Contract Documents. David Mason & Associates shall
	not have control over or charge of actions of Contractor, Subcontractor, or any of their Agents, or employees, or any other persons performing
6.	portions of any construction activities. The structure is stable only in its completed form. Temporary supports required for stability of the structure during all intermediate stages
7.	of construction shall be designed and provided by Contractor. The Contractor is responsible for limiting the amount of construction load imposed upon structural framing. Construction loads shall not
	exceed the design capacity of the framing at the time the loads are imposed.
	XISTING CONDITIONS Contractor shall become familiar with existing conditions as required
2.	to bid and complete the Work. Contractor shall field verify dimensions and elevations of existing construction. Any existing dimensions and elevations shown on the
	Contract Documents are not as-built dimensions, but were obtained from the original structural drawings or other drawings and documents
	made available by the Owner. It is the responsibility of the Contractor to field verify all dimensions, elevations, and member sizes as required prior to beginning fabrication, construction, etc.
3.	Any discrepancies between the existing conditions found and those indicated in the Contract Documents shall be brought to the attention of Architect and Structural Engineer prior to proceeding with the
4.	Work. Contractor shall be responsible for temporary removal and replacement
	/ relocation of any non-structural elements necessary to complete the structural Work. Follow all applicable codes, specifications, and requirements of affected trades. Consideration of this shall
	be included in the Contractor's bid.
1.	Submittals prepared by Subcontractors shall be reviewed by Contractor prior to submitting to Architect. Reproduction of the Contract Documents for Shop Drawings is not permitted.
	Electronic drawing files will not be provided to Contractor. Contractor shall verify the structurally supported equipment weights,
	opening sizes, and locations indicated on the Structural Drawings with Documents from other disciplines and notify Architect of any discrepancies.
4.	Contractor shall submit Shop Drawings showing size, method of anchorage, weight, openings, and locations of equipment not indicated on the Structural Drawings prior to ordering for review by David Mason &
5.	Associates to determine adequacy of the structure. All submittals reviewed by David Mason & Associates are reviewed for
	general conformance with the design concept of the Project and general compliance with the information included in the Contract Documents. Any action indicated is subject to the requirements of the Contract
	Documents. Contractor is responsible for correlating and confirming dimensions at the job site, choice of fabrication processes and techniques
	of construction, and coordination of the work with that of other trades.
1.	Reference to standard specifications or codes of any technical society, organization, or association or to codes of local or state authorities, shall mean the standards in effect as of date of the Contract Documents,
2.	unless otherwise noted. Contract Documents shall govern in the event of a conflict with standard
	specifications or codes of any technical society, organization, or association.

- & Associates for installation of such pipes, ducts, chases, etc. 12. No change in size of dimension of structural members shall be made without written approval from the Structural Engineer. 13. Openings 1'-4" and less on a side are generally not shown on the Structural Drawings. Refer to Architectural and Mechanical Drawings for such openings. 14. Unless otherwise noted, fireproofing methods and materials for structural
- members are not shown on Structural Drawings. Refer to Architectural drawings and Project Specifications for fire rating requirements, fireproofing methods and materials. 15. Details labeled "Typical" on the Structural Drawings apply to all

11. No pipes, ducts, chases, etc. shall be placed in structural beam and

column members nor shall any structural member be cut for pipes,

ducts, etc., unless noted otherwise. Notify David Mason & Associates

when Documents by other disciplines show openings, pockets, etc.

not indicated in the Structural Drawings, but are located in structural

members. Contractor shall obtain prior approval from David Mason

- situations occurring on Project that are the same or similar to those locations specifically indicated. Where a detail is not indicated, the detail shall be the same as for other similar conditions.
- E. CONTRACTOR'S DELEGATED DESIGN 1. Contractor designed elements shall be designed by licensed Professional Engineers registered in the State of Missouri. For permanent building components, contractor shall submit Shop Drawings, design load data, support reactions, and certification that elements were designed for loads specified in the Contract Documents or in the Building Code. All documents noted shall be sealed by the licensed Engineer. If
- criteria indicated are not sufficient, submit a written request for additional information to Architect. The following elements and their connections shall be Contractor designed:
- a. Temporary bracing and shoring b. Earth retention systems necessary for safe excavation c. Aggregate pier foundation system
- d. Structural steel connections[, if altering design shown on the Structural Drawings]
- e. Cold-formed metal framing f. Cold-formed metal framing[, if altering design shown on the Structural Drawings] g. Window and curtain wall systems
- h. Prefabricated buildings i. Stone veneer supports and anchors
- j. Support, anchorage and lateral bracing of mechanical equipment
- and mechanical, electrical, and plumbing system components 2. The Contractor's bid shall include a list of the Professional Engineers to be responsible for each delegated design.
- 3. The successful contractor shall submit a list of the Professional Engineers to the Structural Engineer prior to proceeding with the

PART 2 - FOUNDATIONS

- 2.1 GENERAL A. Foundation design is based upon recommendations in the geotechnical report Report of Geotechnical Exploration Proposed Ranken Manufacturing Building prepared by Intertek PSI dated April 17, 2018. The On-site Geotechnical Representative shall observe and certify the bearing medium for all foundations.
- Any unusual conditions or inadequate bearing conditions shall be reported to David Mason & Associates. B. Recommendations contained within the geotechnical report are to be considered
- part of the contract documents unless specifically modified herein. C. Excavations shall be kept free of loose material and standing water.
- D. All bearing material shall be inspected by the Geotechnical Engineer prior to concrete placement. The geotechnical engineering shall be the sole judge as to the suitability of the bearing material. Footing elevations
- 2.2 BRACING AND SHORING.

shall be adjusted as required.

- A. Foundation walls that retain earth shall be braced against back-filling pressures until floor slabs at top and bottom are complete.
- B. Where foundation walls are to have earth placed on each side, place fill simultaneously so as to maintain a common elevation on each side of the
- C. Contractor shall design temporary bracing for backfill against the foundation

2.3 EARTH RETENTION

- A. The safe retention of all excavations is the complete and sole responsibility of the Contractor. This responsibility includes sheet pile, soldier pile, lagging, tieback, brace, deadman and shotcrete component design, determination of installation sequences and coordination with existing structures and utilities.
- B. Retention systems shall protect all new and existing structures and utilities from damage during the entire excavation and backfill sequence, until all permanent structures are installed and have attained full design strength. C. Do not excavate below existing footings or utilities until the associated earth retention systems are installed.

2.4 FOOTINGS

- A. Individual spread footings and continuous footings shall bear on clean, undisturbed, virgin, sub-soil or compacted engineered fill capable of sustaining a bearing pressure of 2,000 psf and 1,500 psf, respectively, under full service live and dead load.
- B. All footings shall bear on and be formed by clean, undisturbed, virgin, sub-soil or compacted engineered fill with capable of sustaining a bearing pressure of 2,000 psf under full service live and dead load. C. Footings shall be poured into an earth-formed trench, unless noted otherwise. D. Bottom of exterior footings shall bear a minimum of 30 inches below final

PART 3 - CONCRETE

grade for frost protection.

3.1 CAST-IN-PLACE CONCRETE									
A. Standards:									
1. ACI 318 "Building Code Requirements for Reinforced Concrete" (Latest									
Edition)									
	2. CRSI Handbook (Latest Edition).								
B. All detailing, fabrication and erection for reinfor									
support in the forms with accessories must follo									
Manual-2004" and CRSI'S "Manual of Standard		e," 2009.							
C. Minimum concrete cover, unless noted otherw		ound 2"							
<ol> <li>Unformed surface permanently in contact window in the surfaces exposed to earth or weath</li> </ol>									
a. [#6 bar and larger									
b. [#5 bar and smaller									
2. Formed surfaces not exposed to earth or we									
a. Walls, Slabs									
b. Beams, Girders and Columns (To ties or									
D. Concrete shall have a 28-day compressive str	rength ar	nd density, in accordance							
with the following:									
		- Density							
		Density (pcf)							
		(per)							
LEAN CONCRETE FILL									
(BELOW FTGS AND FROST BLOCKS)	2000	145							
ALL OTHER CONCRETE (U.N.O)	4000	145							
<ol> <li>Fine aggregate: Shall be clean, hard, durab substances and conform to ASTM C33.</li> <li>Coarse aggregate: Shall be clean, hard, dur pieces and shall conform to ASTM C33.</li> <li>Light weight aggregate: Shall be clean, hard to ASTM C330.</li> <li>All concrete exposed to freezing and thawing a have 5.5% (+/-1.5%) air entrainment. Do not air trowel finished</li> <li>Reinforcing steel shall be ASTM A615, Grade noted otherwise. Welding of ASTM A615, Grade</li> <li>Reinforcing steel to be welded shall be ASTM</li> <li>Welded wire reinforcing shall be ASTM A185 ai and wired together at least 2" at side and 6" at e J. Dowels in wall footing shall be equivalent in siz bars. Dowels must be anchored or tied in positi pushing bars into freshly placed concrete is not</li> <li>K. Field bending of reinforcing partially embedded unless specifically noted in the Structural Docu</li> </ol>	rable wit d, durabl and deice r entrain 60, defc e 60 reir A706, de nd shall ends. ze and nu on befor accepta d in conc	hout flat or elongated e and conform er chemicals shall concrete to be ormed bars, unless nforcing is not allowed. eformed bars. be contact lap spliced umber to vertical e placing concrete, able. crete is not allowed							
the Structural Engineer. L. All abutting concrete members shall be dowele monolithically. Dowels shall be equal in size an	ed togeth	er unless poured							
in the adjacent members. M. The Architectural, Mechanical, Electrical and F referred to for all mechanical floor requirements and equipment inertia bases, and the various tr	s, housel ades are	keeping pads e responsible for							
placing of sleeves, outlet boxes, anchors, etc. t N. Pipes, sleeves or slots shall not run through a									

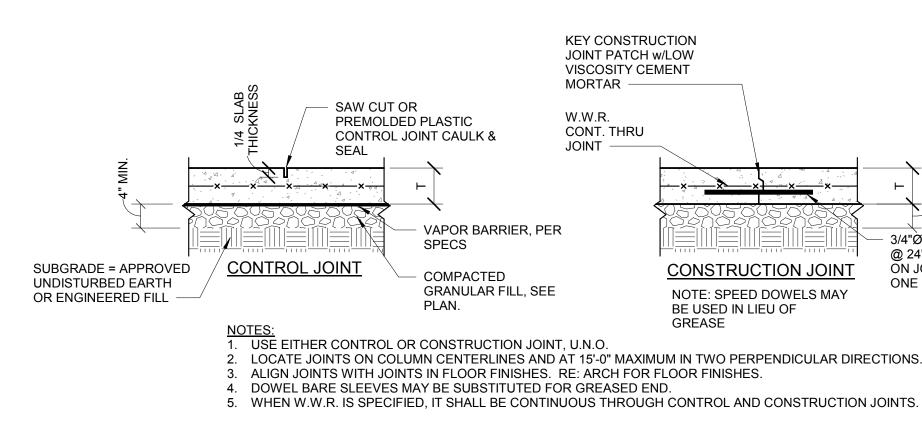
- N. Pipes, sleeves or slots shall not run through any beam or girder unless size and location have been approved by the Structural Engineer. 1. Conduit and pipes embedded in walls, beams, or slabs shall be no larger in outside dimension than 1/3 the overall member thickness or 2" maximum, and shall be placed no closer than 3 diameters or widths on center.
- 2. Conduit and pipes, with their fittings, embedded within a column shall not displace more than 4 percent of the area of the column cross section. O. All reinforcing shall lapped or doweled in accordance with ACI 318 as
- follows, unless noted otherwise: 1. Splice bars with contact laps, unless noted otherwise.
- 2. Use Class B splices, unless noted otherwise. P. Unless otherwise shown in the Architectural Drawings, provide 3/4" chamfers
- at all edges that are exposed to view in the finished structure.

- or not specifically incorporated by reference in the Contract Documents, shall be effective to change the duties and responsibilities of Owner, Architect, David Mason & Associates, Contractor, or any of their Consultants, Agents, or employees from those set forth in the Contract Documents, nor shall it be effective to assign to David Mason & Associates
- or any of David Mason & Associates' Consultants, Agents, or employees any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibilities contrary to the provisions of the Contract Documents. 4. Structural Documents are being released prior to Documents of other disciplines. Contractor shall coordinate Structural Documents with
- other portions of the Contract Documents as they are released. Report any discrepancy or omission to Architect 5. All omissions and conflicts within the Contract Documents shall be
- brought to the attention of Architect prior to proceeding with the
- 6. All things which, in the opinion of the Contractor, appear to be deficiencies, omissions, contradictions or ambiguities, in the plans and specifications shall be brought to the attention of the Structural Engineer. Plans and/or specifications will be corrected, or a written interpretation of the alleged deficiency, omission, contradiction or ambiguity will be made by the Structural Engineer prior to proceeding with the Work. 7. Contractor shall verify dimensions and conditions at the job site.
- Any discrepancies between the conditions found and those indicated in the Contract Documents shall be brought to the attention of Architect prior to proceeding with the Work. 8. Structural Documents are intended to be used with Architectural, Steel
- Building, and Mechanical Drawings. Contractor is responsible for coordinating such requirements during shop drawings and incorporating into the Work. 9. Do not scale these drawings, use dimensions.
- 10. See Documents by other disciplines for floor, wall, and roof openings, trenches, pits, pipe sleeves, equipment pads, metal pan stairs, miscellaneous iron. etc.

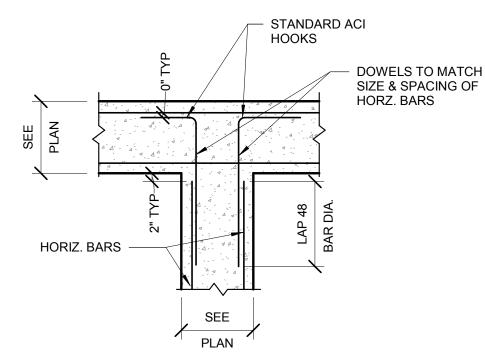
- Q. See Architectural Drawings for door and window openings, drip slots, reglets, masonry, anchors, brick ledge elevations and for miscellaneous embedded plates, bolts, anchors, angles, etc.
- R. All structural steel must be protected by 3" of concrete where earth would otherwise be in contact with steel.
- S. Provide waterstops in below grade construction joints and at other locations as indicated.
- T. Footings may be earth formed at Contractor's option. U. Provide the following additional reinforcing unless otherwise called for
- on Structural Plans: 1. Corner bars at all corners and intersections of concrete walls, grade
- beams and footings to match horizontal reinforcing. 2. Provide #4 slab dowels at 12" o.c. at doors, unless otherwise noted.
- 3. Bars at openings in slabs and walls: Provide bars with area equal to interrupted reinforcing. Place  $\frac{1}{2}$  at each side of opening. V. The Structural Engineer shall be notified for inspection of rebar placement, notice shall be given not less than 24 hours prior to concrete placement.
- 3.2 SLABS-ON-GRADE
- A. All slabs on grade to have 6x6-W1.4xW1.4 WWR centered in middle 1/4 of slab, unless noted otherwise. Support WWR on concrete bricks as necessary to maintain WWR at proper elevation within slab. B. Provide construction or control joints in slab-on-grade as indicated in
- the Structural Drawings. If joint pattern is not indicated, provide joints at 15 feet (+/-) in both directions and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.). C. Floor slab construction shall conform to guidelines of ACI 302. Floor
- finished surface shall conform to the ACI 302 tolerances for flatness and levelness numbers (FF/FL) specified. D. Provide compressible filler and sealant in slab-on-grade and wall and
- column interfaces that are not doweled together. E. See Architectural Drawings for location of floor finishes and slab depressions. F. At floor drains, locally slope floor towards drain. See Documents from other disciplines for drain locations.
- PART 4 METALS

### 4.1 STRUCTURAL STEEL A. GENERAL

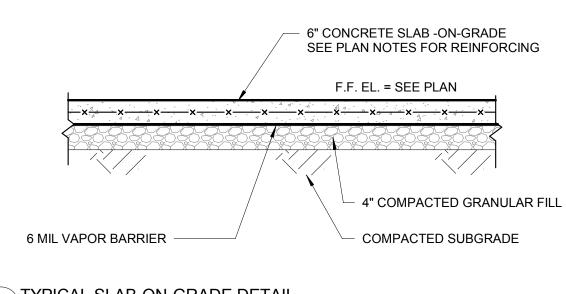
- 1. Structural steel shall be fabricated and erected in accordance with the AISC ["Specification for Structural Steel Buildings" - ANSI/AISC 360-10.] ["Specification for Structural Steel Buildings" — ANSI/AISC 360-05.] [, and "Seismic Provisions for Structural Steel Buildings," ANSI/AISC 341-10.]
- 2. All steel permanently exposed to view shall be designated as architecturally exposed structural steel. 3. Materials shall conform to the following, unless noted otherwise. a. Angles, Base plates & Conn. Plates (u.n.o) ASTM A36
- b. Welding Electrodes Matching strength, 70 ksi min. c. Structural Pipe ASTM A500, Grade B (Fy = 42 KSI)
- d. Bolts ASTM A325, 3/4" diameter (min.), hex head
- e. HSS Structural Tube: Sq. & Rect. ASTM A500, Grade B f. Anchor Bolts ASTM F1554
- g. W's and WT's ASTM A992 (Grade 50) ASTM A36 h. C & MC Shapes
- 4. All structural steel shall be detailed, fabricated and erected in accordance with the AISC Code of Standard Practice (Edition as referenced in the Design Building Code), except as modified in these notes, within the drawings, and/or in the Project Specifications.
- 5. Detail steel beam connections as simple span beams, unless noted otherwise. a. Minimum beam shear reaction is 10 kips.
- b. Installed bolts shall be fully tensioned. 6. Beam connections shall be as indicated on the Structural Drawings.
- a. Minimum beam shear reaction is 10 kips. b. Installed bolts shall be fully tensioned.
- 7. The fabricator shall retain a licensed Professional Engineer registered in the State of Missouri for design of alternate connections or deviations
- from connections detailed on the Structural Drawings. Beam connections not fully detailed shall be designed by the fabricator.
- Connections may be welded or bolted. Generally, con on structural drawings are schematic and are only intended to show the relationship of members connected. Any connection that is not
- shown or is not completely detailed on the structural drawings shall be designed by a licensed Professional Engineer registered in the State of Missouri, retained by the fabricator. Completely detailed
- means the following information is shown on the detail drawings: a. All plate dimensions and grades.
- b. All weld sizes, lengths, pitches and returns. c. All hole sizes and spacings.
- d. Number and type of bolts: where bolts are shown but no number is given, the connection has not been completely detailed. e. Where partial information is given, it shall be the minimum requirement for the connection.
- 9. Moment connections are designated on the Structural Drawings. Where moment magnitude is not shown, the connection shall be designed for the full moment capacity of the beam. 10. Bolted connections:
- a. Slip-critical type connections of A325-SC or A490-SC bolts shall be used for all bolted connections of bracing members, moment connections, cantilevers, and as shown on the drawings. Oversized and long-slotted holes are not allowed for slip-critical connections. b. All other bolted connections shall be bearing type using A325N
- or A490N bolts. Oversized holes and long-slotted holes are not allowed unless shown on the drawings.
- c. A307 bolts may be used where specifically indicated d. Protruding bolt heads, shafts or nuts shall not extend into nor prohibit the application of architectural finishes and they shall not extend into nor prohibit the placement of steel decking to
- the correct line and elevations. e. The fabricator is responsible for verifying the tension capacity of axial loaded members after a section is reduced for bolt holes. Member size may be increased or connection plates added as required. f. Shop drawings shall indicated the type of bolts used in each connection
- and the allowable values used for the various bolt types. 11. Welded Connections:
- a. All welding shall be in accordance with the "Structural Welding Code" (AWS D1.1–Latest Edition). Use minimum E70 electrodes b. All welding shall be done only by operators who meet the qualifications and tests prescribed in the standard qualifications procedure
- of the American Welding Society. c. All groove welds shall be complete penetrations, u.n.o. 12. Design calculations for typical beam connections and all primary bracing and hanger connections shall be submitted to the Structural Engineer
- for review and approval prior to fabrication. Calculations shall be reviewed only for compliance with the Contract Documents. 13. Beam connections shall be designed for service loads based on AISC maximum total uniform load tables or the reactions shown on the Drawings,
- whichever is less. 14. Member forces shown on the drawings are service values as follows: P = Axial Force in kips (+) = Tension (-) = Compression
- V = Shear (KIPS) R = Beam Reaction (KIPS)
- M = Moment (FT-KIPS) 15. Bolted connections designated as fully tensioned shall be installed with direct-tension indicator washers or tension-control bolts. 16. Splicing of steel members, unless shown on the Drawings, is prohibited
- without written approval of the Structural Engineer. 17. No change in size or position of the structural elements shall be
- made and holes, slots, cuts, etc., are not permitted through any member unless they are detailed on the shop drawings and approved by the Engineer of Record.
- 18. The minimum plate thickness shall be 3/8", the minimum bolt diameter shall be 3/4". The minimum weld shall be 3/16" and the minimum design load on any connection shall be 10 kips. 19. All beams, except cantilever beams, shall be fabricated with the mill camber up. Cantilever beams shall be fabricated so that natural camber
- raises cantilever end. 20. The frame of the steel skeleton shall be carried up true and plumb and temporary bolting and bracing shall be introduced to safely carry all loads to which the structure may be subjected (including equipment and the operation of same) until the installation of all permanent bracing is complete. Individual columns must be braced before connections are made and bracing shall be left in place as long as may be required for safety. No final bolting or welding shall be done until as much of the structure as will be stiffened thereby has been properly aligned
- and plumbed. 21. All column base plates shall be set on steel shims to true level line. General Contractor shall ram a non-shrink grout solidly under entire base plate area. Provide 1" minimum depth non-shrink grout below plates (u.n.o.).
- 22. All steel beams bearing on concrete or masonry shall have 8" minimum bearing, unless noted otherwise. 23. Provide wall anchors 3/4" X 1'-9" at masonry bearing ends at all structural steel bearing walls, unless noted otherwise. See typical details. 24. Where items are to be anchored to concrete or masonry, except at column baseplates, use standard sized holes in steel member, unless noted
- otherwise. 25. Use pregualified welded joints in accordance with AISC and AWS D1.1:2000. Non-prequalified joints shall be qualified prior to fabrication.



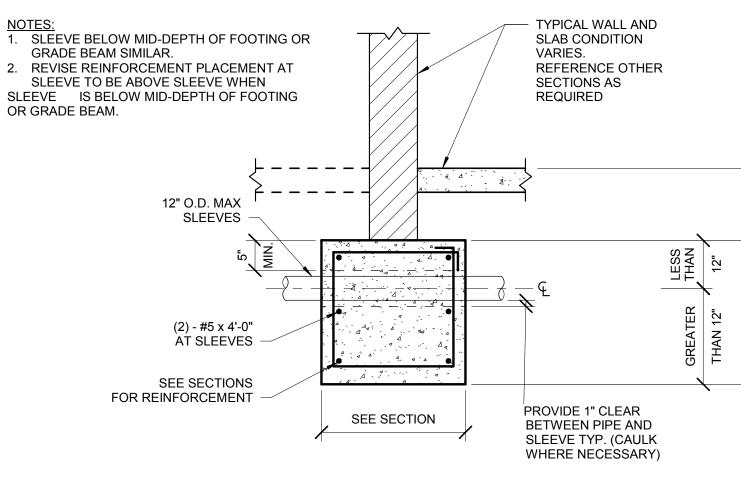
TYPICAL SLAB-ON-GRADE JOINT DETAIL / 3/4" = 1'-0"



TYPICAL PLAN AT INTERSECTION OF WALLS/GRADE BEAMS/FOOTINGS ( 3 ) <u>3/4" = 1'-0"</u>

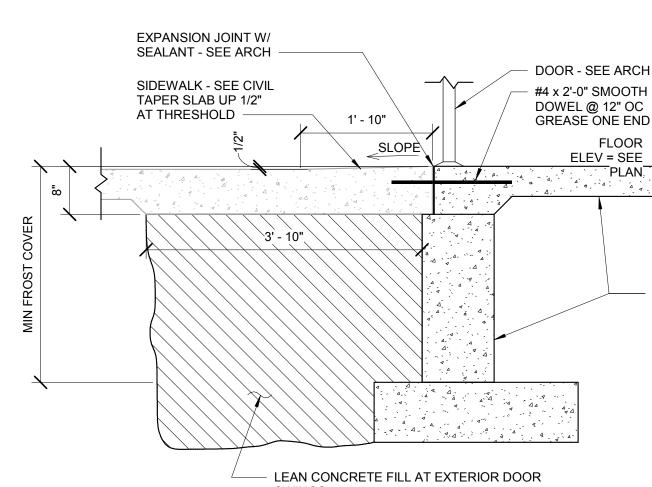


TYPICAL SLAB-ON-GRADE DETAIL ( 5 )<del>3/4" = 1'-0"</del>



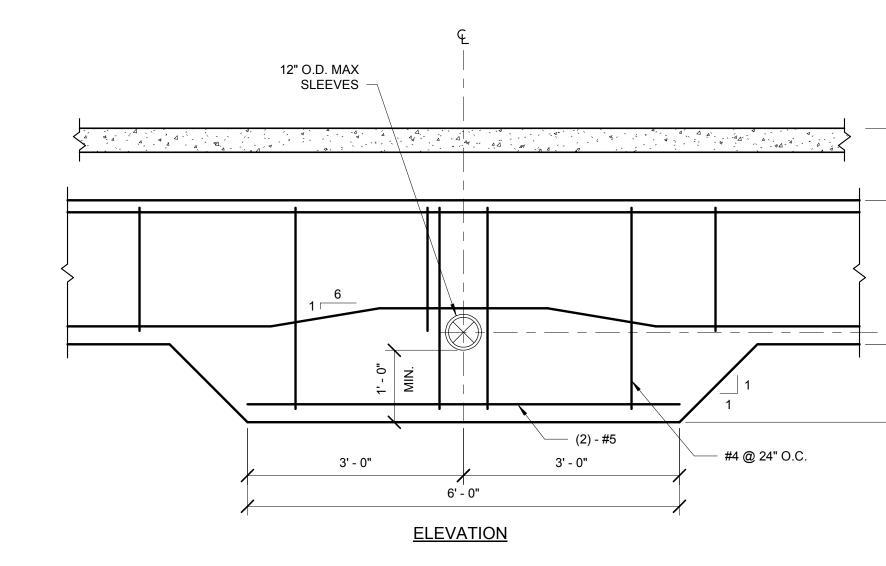
SLEEVE THROUGH GRADE BEAM

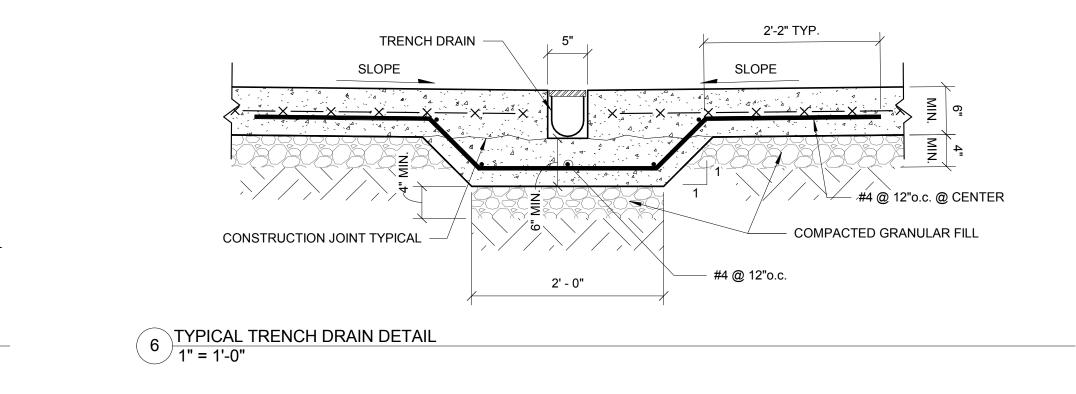
### TYPICAL PIPE PENETRATION THRU FOOTING OR GRADE BEAM / 3/4" = 1'-0"



SWINGS. EXTEND 1'-0" MIN PAST DOOR, TYP EA SIDE

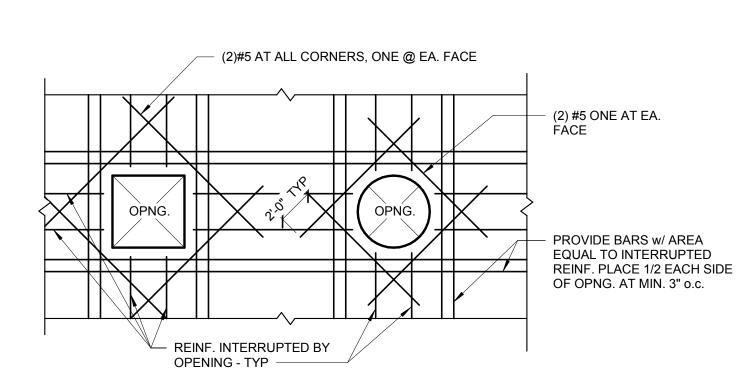
### SEE PLANS AND SUBSTRUCTURE SECTIONS FOR BALANCE OF INFORMATION

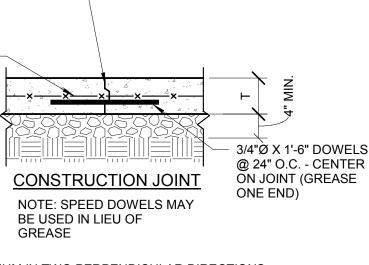


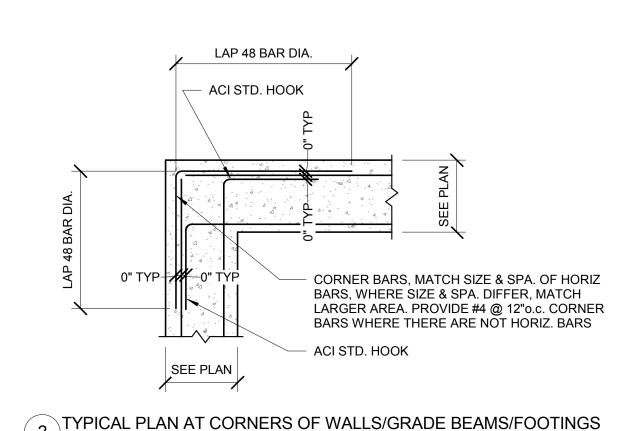


### 4 TYPICAL REINFORCING STEEL AT OPENINGS IN WALLS AND SLAB-ON-GRADE / 3/4" = 1'-0"

/ 3/4" = 1'-0"







ARCHITECT 3005 LOCUST STREET SAINT LOUIS, MO 63103 T 314 531 7400 W JEMASTL.COM ARCHITECT-OF-RECORD MO CERTIFICATE OF AUTHORITY A2014008380 3005 LOCUST ST. ST. LOUIS, MO 63103 T (314) 531-7400 CONTACT: STEVE HOOVER EMAIL: SHOOVER@JEMASTL.COM CIVIL ENGINEERING DESIGN CONSULTANTS MO CERTIFICATE OF AUTHORITY 2003004674 10820 SUNSET OFFICE DRIVE, STE. 200 ST. LOUIS, MO 63127 T (314) 729-1400 CONTACT: PAUL BOYER EMAIL: PBOYER@CEDC.NET <u>STRUCTURAL</u> DAVID MASON + ASSOCIATES MO CERTIFICATE OF AUTHORITY 001103 800 SOUTH VANDEVENTER AVENUE ST. LOUIS, MO 63110 T (314) 534-1030 CONTACT: PAIGE GREGORY PGREGORY@DAVIDMASON.COM <u>LANDSCAPE</u> DG2 DESIGN MO CERTIFICATE OF AUTHORITY LC1126925 4835 MO-109, STE. 102 EUREKA, MO 63025 T (636) 549-9007 CONTACT: KRISTY DEGUIRE EMAIL: KDEGUIRE@DG2DESIGN.COM PAIGE MARIE GREGORY, P.E. PROFESSIONAL ENGINEER P.E. No. 2015017014 Missouri Engineering Certificate of Authority No. 001103 No. Date Description 06/06/18 EDA REVIEW 06/28/18 ISSUED FOR BID DRAWN BY: CMS PROJECT NUMBER: **18-1260.00** SHEET TITLE: **GENERAL NOTES & TYPICAL** DETAILS

