

## Scenic Regional Library Ovensville Branch 503 Clive Street (Hvy. 19) Ovensville, MD 65066



#### NORTH ELEVATION (E. MADISON AVE. ENTRY)

**RATINGS** 

COLUMN

CORRIDOR

DOOR

FLOOR

STORAGE

RATING: 0 HOUR

OMNUTE

OMNUTE

0 HOUR 0 HOUR

#### DRAWING INDEX

A-000 COVER SHEET TO CIVIL TITLE SHEET TOPOGRAPHIC SURVEY **DEMOLITION PLAN** C2 SITE PLAN C3 **GRADING PLAN** UTILITY PLAN DETAIL SHEET D2 DETAIL SHEET D3 DETAIL SHEET L1.0 LANDSCAPE SITE PLAN A-001 SYMBOLS, ABBREVIATIONS AND GENERAL NOTES A-002 LIFE SAFETY PLAN A-101 ARCHITECTURAL SITE PLAN A-102 ENLARGED ROOF PLANS AND ROOF DETAILS A-103 SITE DETAILS

A-201 FLOOR PLAN - FIRST FLOOR

A-301 ENLARGED FLOOR PLANS A-302 ENLARGED FLOOR PLANS

A-401 REFLECTED CEILING PLAN A-402 ENLARGED CEILING PLANS

A-501 FINISH PLAN/LEGEND A-601 ELEVATIONS - EXTERIOR A-602 ELEVATIONS - INTERIOR

A-603 ELEVATIONS - INTERIOR

A-604 ELEVATIONS - INTERIOR

A-605 ELEVATIONS - INTERIOR

A-701 BUILDING SECTIONS & BIRDS-EYE SECTION A-702 SECTIONS - BUILDING

A-703 SECTIONS - BUILDING

A-704 SECTIONS - BUILDING

A-705 SECTIONS - BUILDING

A-801 DETAILS - PLAN A-802 DETAILS - PLAN

A-803 DETAILS - BUILDING

A-804 DETAILS - BUILDING

#### DRAWING INDEX

A-805 DETAILS - BUILDING A-806 DETAILS - BUILDING A-807 DETAILS A-808 DETAILS A-809 DETAILS - MILLWORK A-810 DETAILS - MILLWORK A-901 DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES A-902 FRAME DETAILS A-903 PARTITION TYPES F-101 FURNITURE PLAN - FIRST FLOOR S-100 GENERAL NOTES S-101 GENERAL NOTES

S-102 TYPICAL DETAILS S-103 TYPICAL DETAILS

S-104 TYPICAL DETAILS S-201 FIRST FLOOR FOUNDATION PLAN

S-202 ROOF FRAMING PLAN S-300 FOUNDATION SECTIONS

S-400 FRAMING SECTIONS S-500 BRACE FRAME ELEVATIONS S-600 COLUMN SCHEDULE & DETAILS

M-001 LEGEND, SYMBOLS, NOTES & ABBREVATIONS - MECH.

M-201 FLOOR PLAN - MECHANICAL

M-801 DETAILS - MECHANICAL M-901 SCHEDULES - MECHANICAL

P-001 LEGEND, SYMBOLS, NOTES & ABBREVATIONS - PLUMB. P-200 FLOOR PLAN - FOUNDATION PLUMBING

P-201 FLOOR PLAN - PLUMBING P-801 DETAIL - PLUMBING

E-001 LEGEND, SYMBOLS, NOTES & ABBREVATIONS - ELECT.

E-100 SITE PLAN - ELECTRICAL EL-201 FLOOR PLAN & LIGHT FIXTURE SCHEDULE - ELECT. LIGHTING

EP-301 FLOOR PLAN, ONE-LINE & SCHEDULES, ELECTRICAL POWER

E-401 FLOOR PLAN - ELECTRICAL DATA

E-901 SCHEDULES - ELECTRICAL

E-801 DETAILS - ELECTRICAL

#### CODE INFORMATION

ACCESSIBILITY:

<u>AUTHORITIES HAVING JURISDICTION</u>: CITY OF OWENSMILE, MO (GASCONADE COUNTY) OWENSMILLE FIRE DEPARTMENT BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION.

> AMERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

FIRE PREVENTION: INTERNATIONAL FIRE CODE (IFC) 2003 EDITION,

MECHANICAL: INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION.

ELECTRICAL: NATIONAL ELECTRICAL CODE, 2002 EDITION

<u>PLUMBING</u> INTERNATIONAL PLUMBING CODE (IPC) 2003 EDITION.

PROPERTY MAINTENANCE: INTERNATIONAL PROPERTY MAINTENANCE CODE (IPVC) 2003 EDITION.

INTERNATIONAL FUEL GAS CODE 2003 EDITION, GAS:

## **BUILDING INFORMATION**

<u>USE GROUPS</u> ASSEMBLY, LIBRARY MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE SAFETY PLAN, SHEET A-002)

NON-SPRINKLERED, NOT PROTECTED

SEISMC CATEGORY: REFER TO CISCA GUIDELINES FOR REQUIREVENTS

FLOOR ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 168 OCCUPANTS

ALLOWABLE HEIGHT AND AREA: USE GROUP A-3 IS MOST RESTRICTIVE USE. ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

#### **MCINITY MAP**



#### LOCATOR MAP





#### ARCHITECT-OF-RECORD

JEWA 3005 LOCUST ST. ST. LOUIS, MD 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SQLARK@JEMASTL.COV

#### DESIGNARCHITECT

SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAV E: STUFFLEBEAM@SDAARCHTECTS.COV

#### **GML** ENGINEER

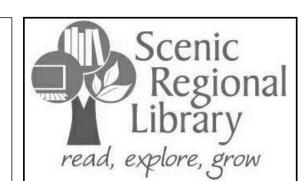
COCHRAN ENGINEERING 530A EAST INDEPENDENCE DRIVE UNION, MO 63084 T (636) 584-0540 F (636) 584-0512 CONTACT: DAVE VAN LEER E-MAIL: DVANLEER@COOHRAN.COV

#### STRUCTURAL ENGINEER

ALPERAUDI, INC. 1804 BORWAN CIRCLE DRIVE ST. LOUIS, MD 63146 T (314) 432-8600 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COV

#### MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

BRIC PARTNERSHIP, LLC 138 WEST ADAVIS KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEMAN@BRICPARTNERSHIP.COV



ARCHITECT-OF-RECORD ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM

DESIGNAROHTECT SAPP DESIGNASSOCIATES APOHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

CCCCHRAN 530A E INDEPENDENCE DRIVE UNON, MO 63084 CONTACT: DAVE VAN LEER E-MAIL: DVANLEER@0000-RAN.COM

> STRUCTURAL ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EL RETT

E-MAIL: STEVE. EI-PRETT@ALPERAUDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRICPARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN

E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No Date Description

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH PROJECT NUMBER: 16-1161.02

SHEET TITLE: **COVER SHEET** 

# CHRAN

## **CONTACT INFORMATION OWNER** OWNER: SCENIC REGIONAL LIBRARY REPRESENTATIVE: STEVEN CAMPBELL (DIRECTOR) ADDRESS: 304 HAWTHORNE DR. UNION, MO PHONE: (636) 583-0652 WATER/SEWER OWNER: CITY OF OWENSVILLE REPRESENTATIVE: JEFF KUHNE ADDRESS: 107 W SEARS AVE. OWENSVILLE, MO PHONE: (573) 437-2125 **ELECTRIC** OWNER: AMEREN REPRESENTATIVE: MARK LUECKENHOFF ADDRESS: 101 MADISON ST. JEFFERSON CITY, MO PHONE: (573) 681-7530 GAS OWNER: AMEREN REPRESENTATIVE: JAKE MARTIN ADDRESS: 101 MADISON ST. JEFFERSON CITY, MO PHONE: (573) 291-1978 **TELEPHONE** OWNER: FIDELITY COMMUNICATIONS REPRESENTATIVE: ROGER HALMICK ADDRESS: 64 N. CLARK ST. SULLIVAN, MO PHONE: (573) 259-0464 SPECIAL NOTES: FOR QUESTIONS OR CLARIFICATION PLEASE CONTACT DAVID VAN LEER AT COCHRAN. PHONE #636-584-0540 CITY OF **OWENSVILLE** VICINITY MAP NO SCALE

# SITE IMPROVEMENT PLANS FOR SCENIC REGIONAL LIBRARY INTHE CITY OF OWENSVILLE, MISSOURI 503 OLIVE STREET

PROJECT NO. 16-6415



- CIVIL ENGINEERING
- LAND SURVEYING

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

-PAYS FOR SERVICE TAP AND WATER METER MATERIALS. -PLACES SERVICE LINE FROM METER TO

-INSTALL CONDUIT FROM NEW UTILITY POLE TO BUILDING.

-ALL TRENCHING AND BACKFILLING REQUIRED.

-RUN SERVICE CABLE FROM TRANSFORMER TO

-INSTALL ALL GAS LINES ON BUILDING SIDE OF GAS METER AND CONNECT TO METER.

THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

PLACE ALL CONDUIT.

OTHERS RESPONSIBILITY-

-PROVIDE AND INSTALL SERVICE FROM EXISTING TO NEW UTILITY POLE.
-PULL CABLE FROM NEW UTILITY POLE INTO BUILDING

-CONNECT TO EXISTING ELECTRIC.
-PROVIDE AND INSTALL POLE MOUNTED

TRANSFORMER.

-PROVIDE AND INSTALL AERIAL ELECTRIC FROM EXISTING TO NEW POLE MOUNTED TRANSFORMER.

-TRENCH, INSTALL, AND BACKFILL GAS LINES FROM EXISTING GAS MAIN CONNECTION UP

TO METER. -SUPPLY AND INSTALL GAS METER.

CONTRACTOR RESPONSIBILITY-

AGENCIES CONTACTS

CITY OF OWENSVILLE 107 W. SEARS AVE. OWENSVILLE, MO 65066 CONTACT: JEFF KUHNE

PHONE: (573) 437-2125

64 N. CLARK ST. SULLIVAN, MO 63080 CONTACT: ROGER HALMICK

ELECTRIC

PHONE: (573) 259-0464

CONTACT: MARK LUECKENHOFF PHONE: (573) 681-7530

101 MADISON ST.

JEFFERSON CITY, MO 65101 CONTACT: JAKE MARTIN

PHONE: (573) 291-1978

- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084 TELEPHONE (636) 584-0540 FAX (636) 584-0512 E-MAIL mail@cochraneng.com

**APRIL**, 2017

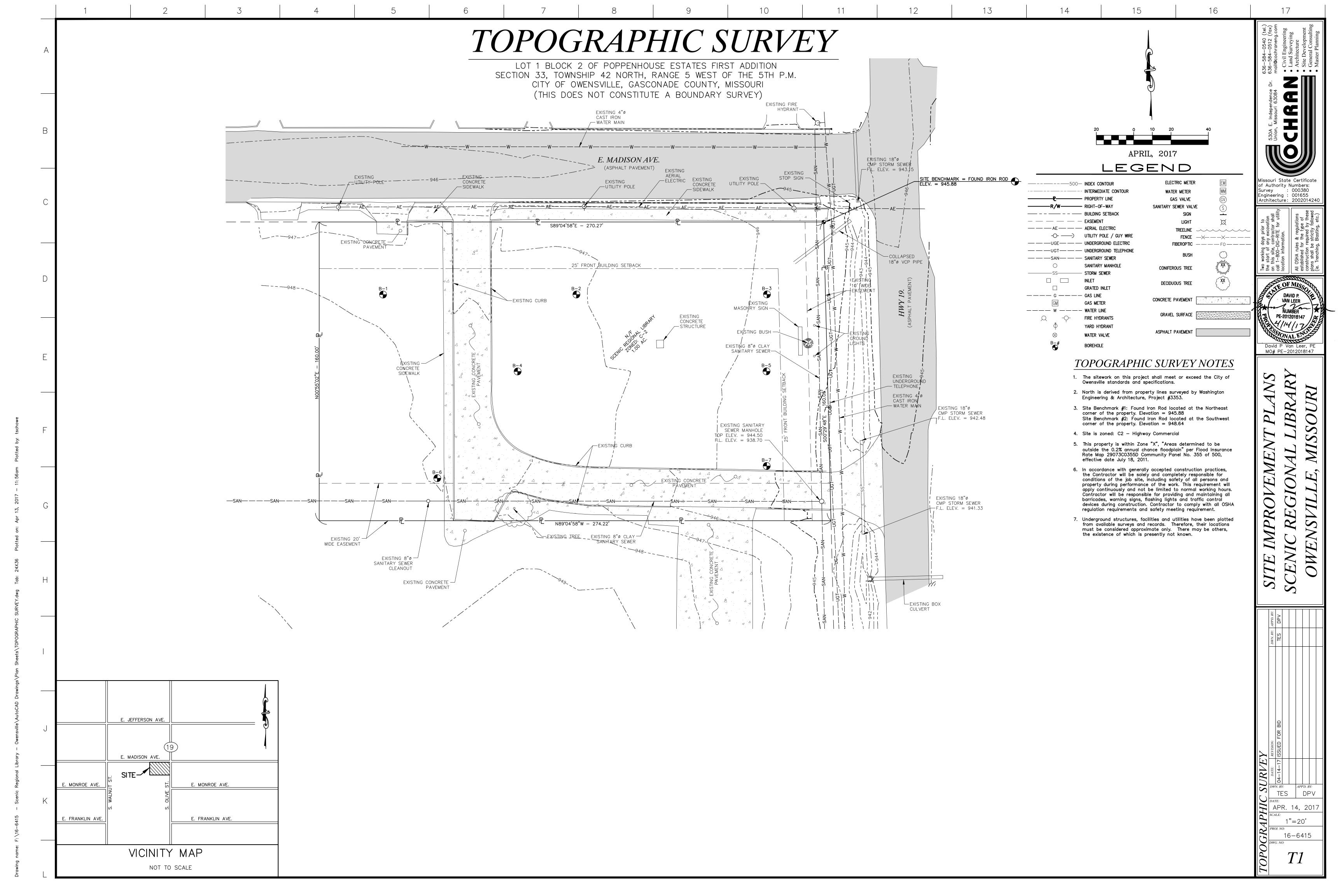
SHEET INDEX	SHEET
TOPOGRAPHIC SURVEY	T1
DEMOLITION PLAN	C1
SITE PLAN	C2
GRADING PLAN	C3
JTILITY PLAN	C4
DETAIL SHEET	D1
DETAIL SHEET	D2
DETAIL SHEET	D3

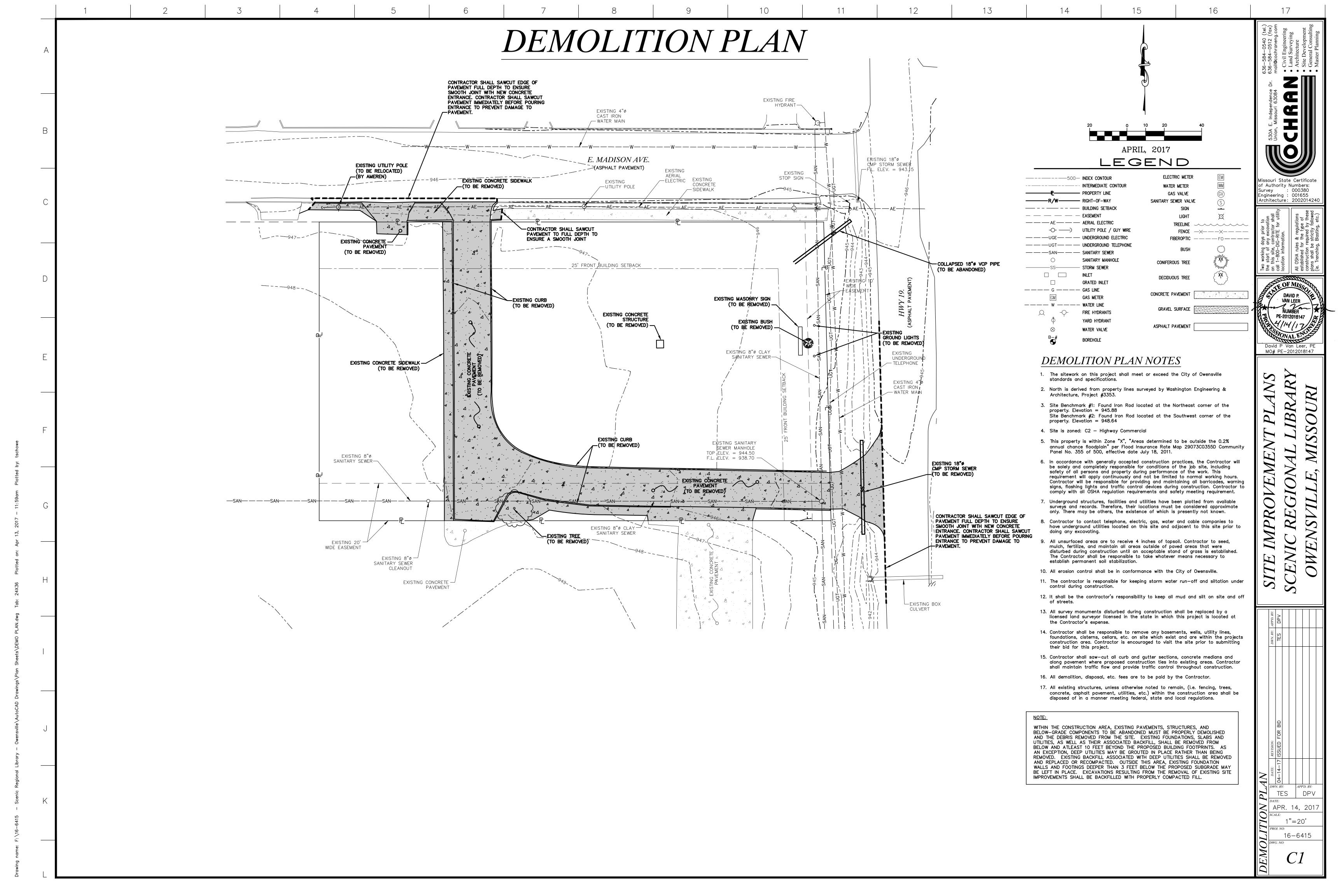


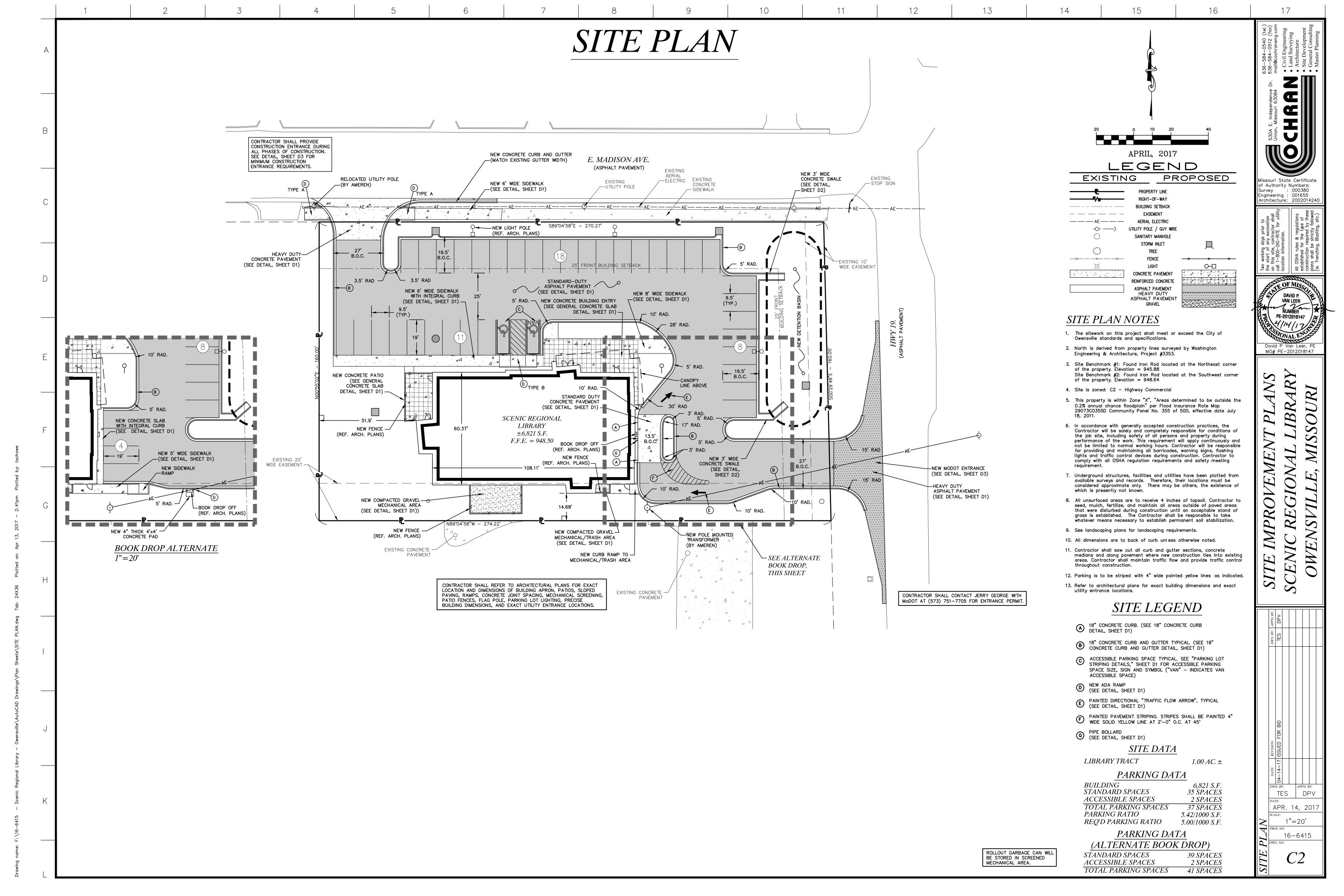
David P. Van Leer No. PE-2012018147 Registered Professional Engineer State of Missouri for Cochran

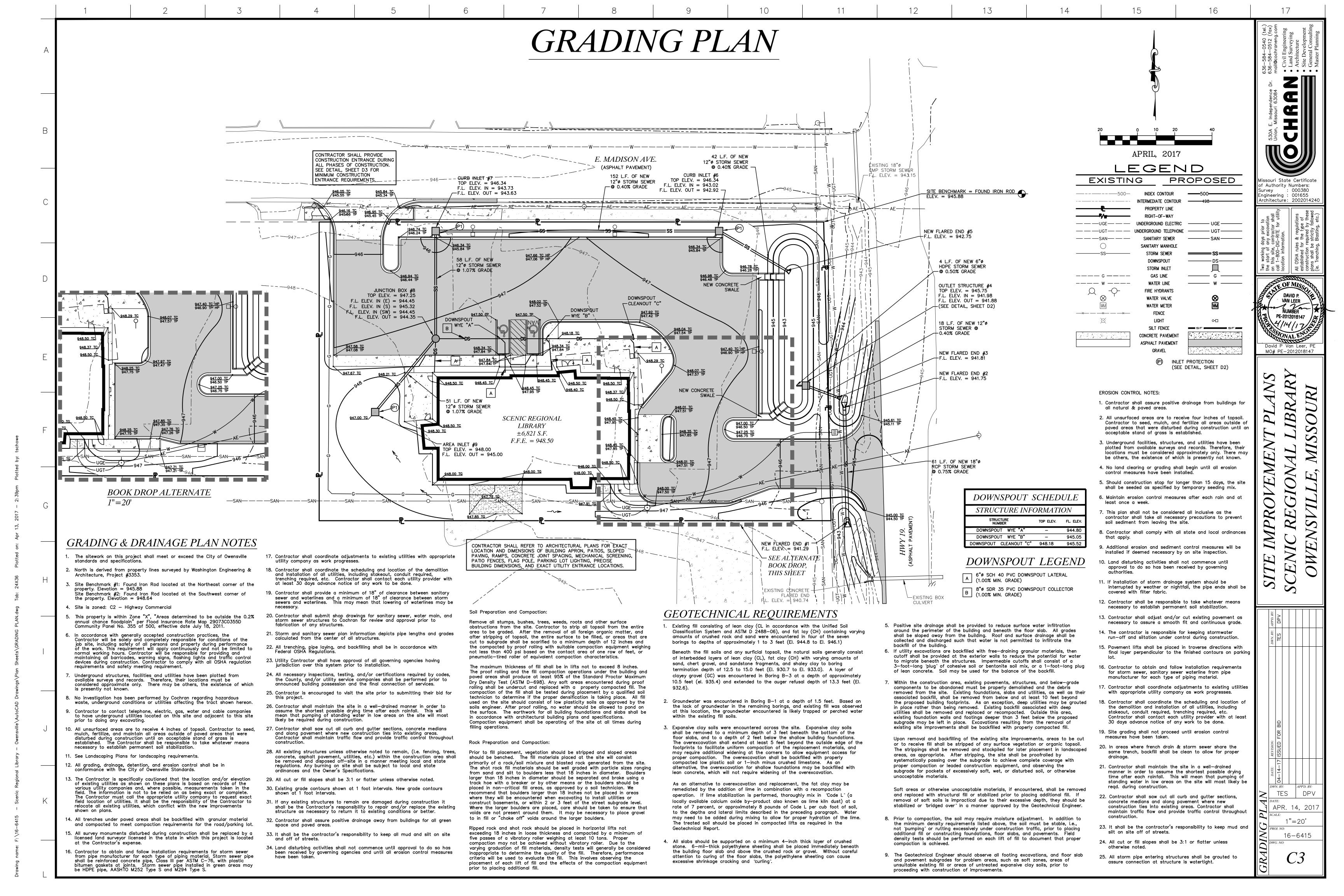
> Two working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utilit location information.

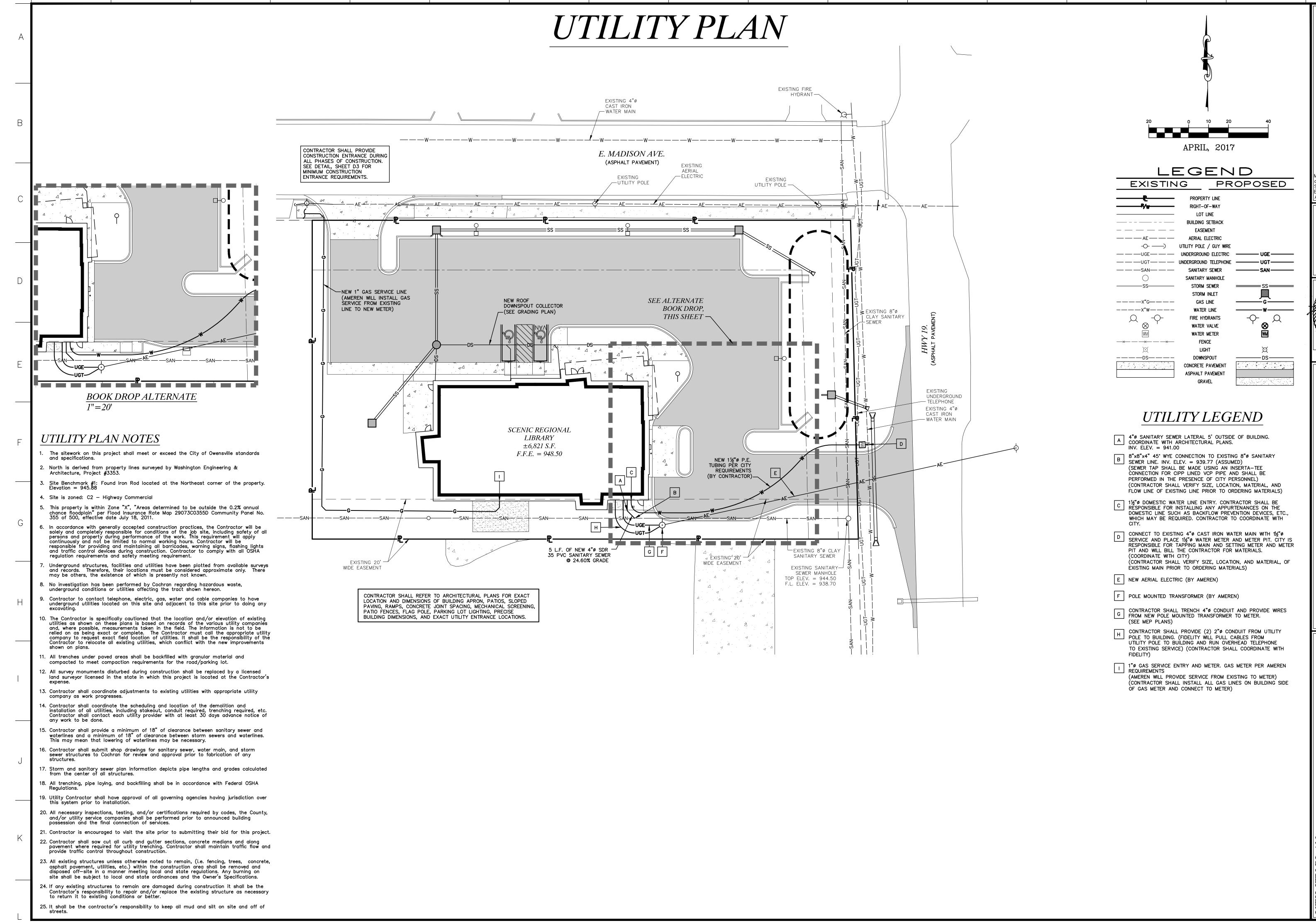
All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)











Missouri State Certificate of Authority Missouri 63084

Wissouri 63084

Will@c

Wall@c

Civi

Civi

Architecture: Civi

Architecture: Site

Two working days prior to the start of any excavation on this site, contractor shall call 1–800–DIG–RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed by these

DAVID P.
VAN LEER

NUMBER
PE-2012018147

David P Van Leer, PE

PE-2012018147

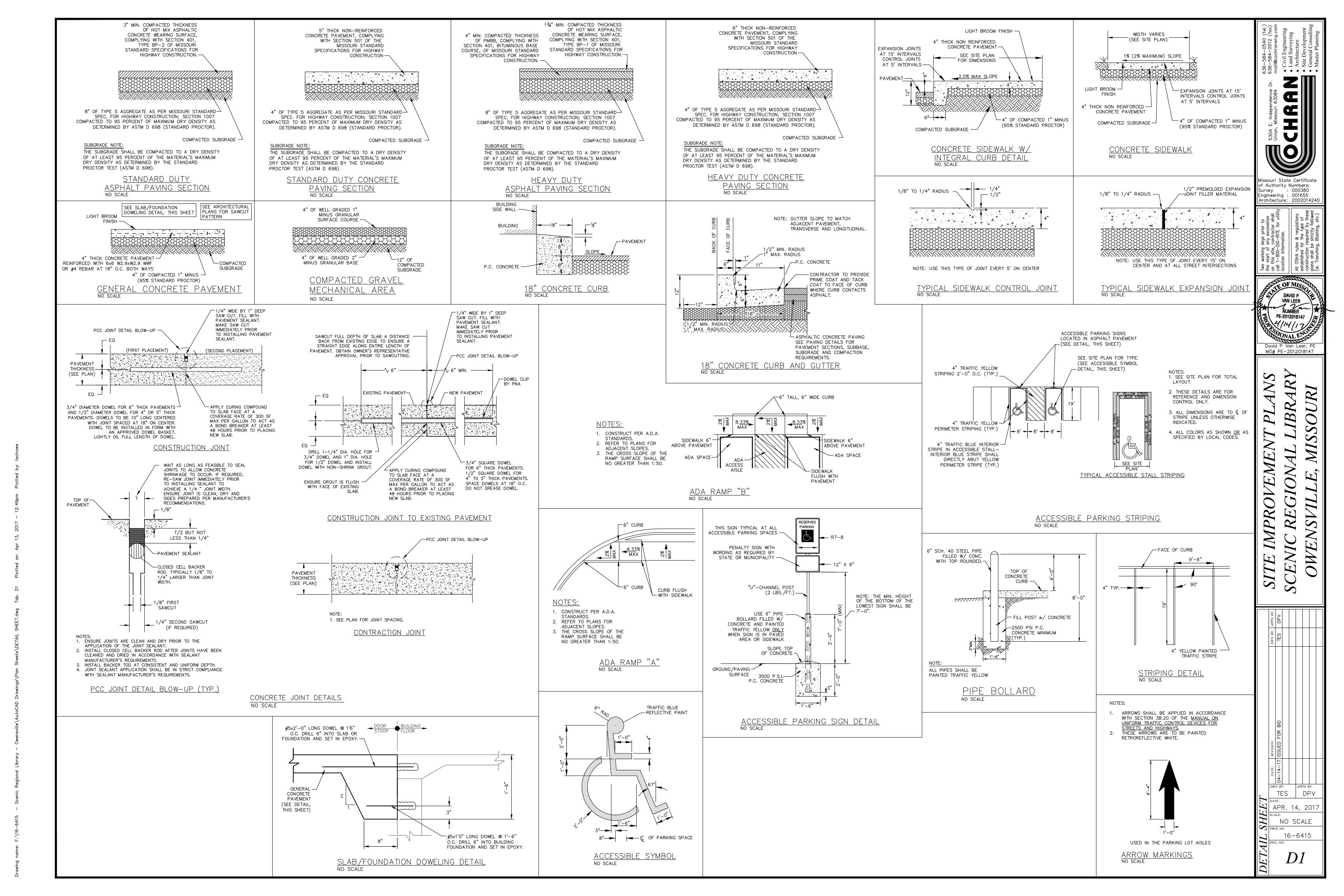
| PE-2012018147

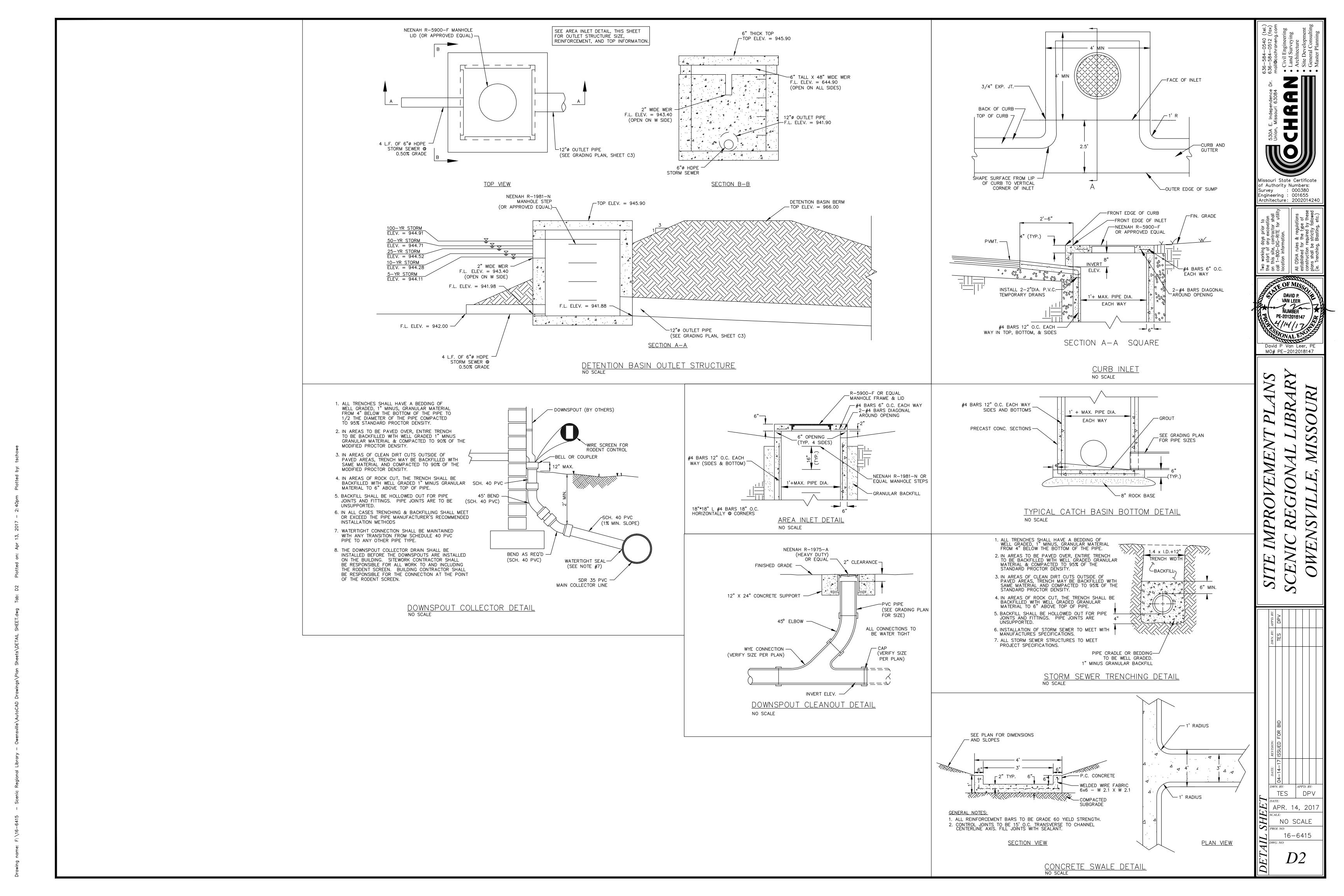
| David P Van Leer, Pi MO# PE-2012018147

SITE IMPROVEMENT PLANS
CENIC REGIONAL LIBRARY

MATE:
APR. 14, 2017

SCALE:
1"=20'
PROJ. NO:
16-6415

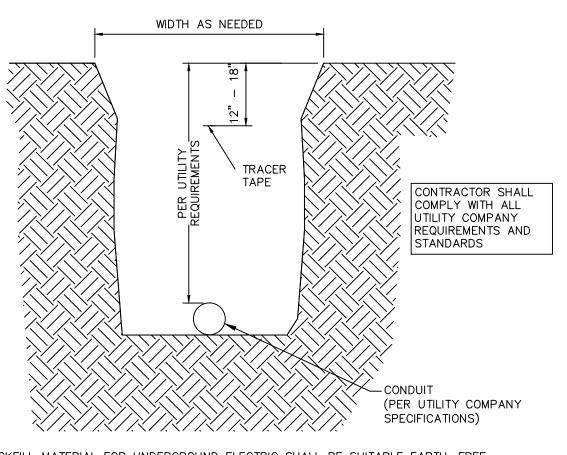




NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH), CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE.

#### PERFORMANCE STANDARDS:

- ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE
- VEHICLES OR EQUIPMENT MAY ACCESS THE SITE. CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION
- TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY
- DISCHARGED OFF-SITE. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER SYSTEMS.
- EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE
- CONSTRUCTION EXIT(S) AS CONDITIONS DEMAND. CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO LONGER EFFECTIVE. AT SUCH A TIME THE
- CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL. IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.



#### 1. BACKFILL MATERIAL FOR UNDERGROUND ELECTRIC SHALL BE SUITABLE EARTH, FREE FROM LARGE ROCKS OR STONES.

2. ALL TRENCHES IN AREAS OF UNSUITABLE EARTH USED FOR UNDERGROUND ELECTRIC SHALL HAVE A BEDDING OF WELL-GRADED, 1" MINUS, GRANULAR BACKFILL FROM 4" BELOW THE BOTTOM OF THE PIPE TO ONE-HALF THE DIAMETER OF THE PIPE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. (ASTM D-698)

3. IN AREAS OF CLEAN DIRT CUTS OUTSIDE OF PAVED AREAS, TRENCH MAY BE BACKFILLED WITH SAME MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. (ASTM D-698)

4. IN AREAS OF ROCK CUT, THE TRENCH SHALL BE BACKFILLED WITH WELL-GRADED GRANULAR COMPACTED MATERIAL TO SIX INCHES ABOVE TOP OF PIPE.

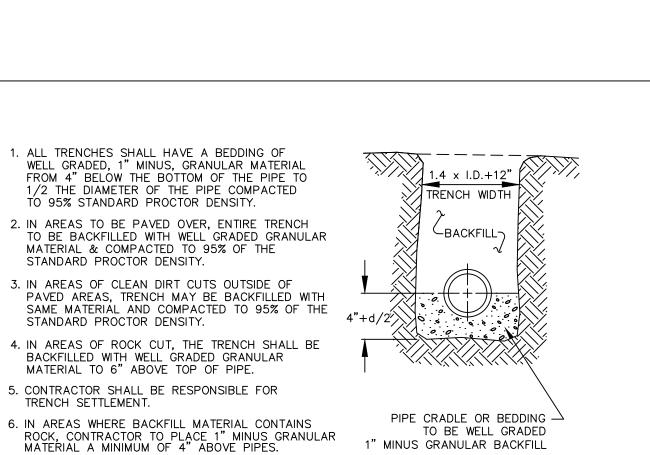
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SETTLEMENT. 6. IN PAVED (OR GRAVEL) AREAS WELL-GRADED 1" MINUS GRANULAR BACKFILL

7. TRACER TAPE SHALL BE 3" WIDE, BONDED LAYER PLASTIC WITH MAGNETIC FOIL CORE, TERRA TAPE DETECTABLE, MANUFACTURED BY GRIFFOLYN CO. OF HOUSTON,

TEXAS, AND SHALL HAVE THE WORDS "CAUTION: "ELECTRICAL CONDUIT BURIED BELOW"

COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM-698) SHALL BE USED.

UNDERGROUND UTILITY TRENCHING DETAIL NO SCALE



GRAVITY SEWER TRENCHING DETAIL NO SCALE

1. ALL TRENCHES SHALL HAVE A BEDDING OF WELL GRADED, 1" MINUS, GRANULAR MATERIAL

TO 95% STANDARD PROCTOR DENSITY.

FROM 4" BELOW THE BOTTOM OF THE PIPE TO 1/2 THE DIAMETER OF THE PIPE COMPACTED

2. IN AREAS TO BE PAVED OVER, ENTIRE TRENCH

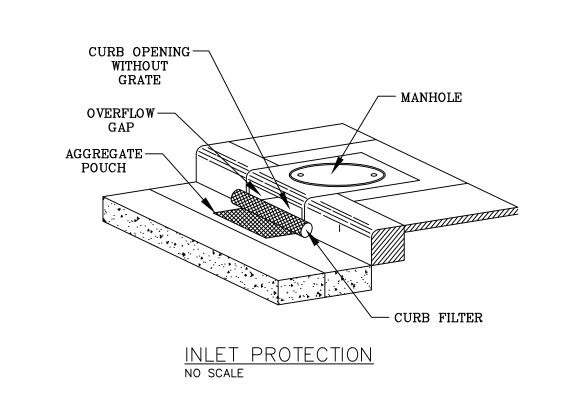
MATERIAL & COMPACTED TO 95% OF THE

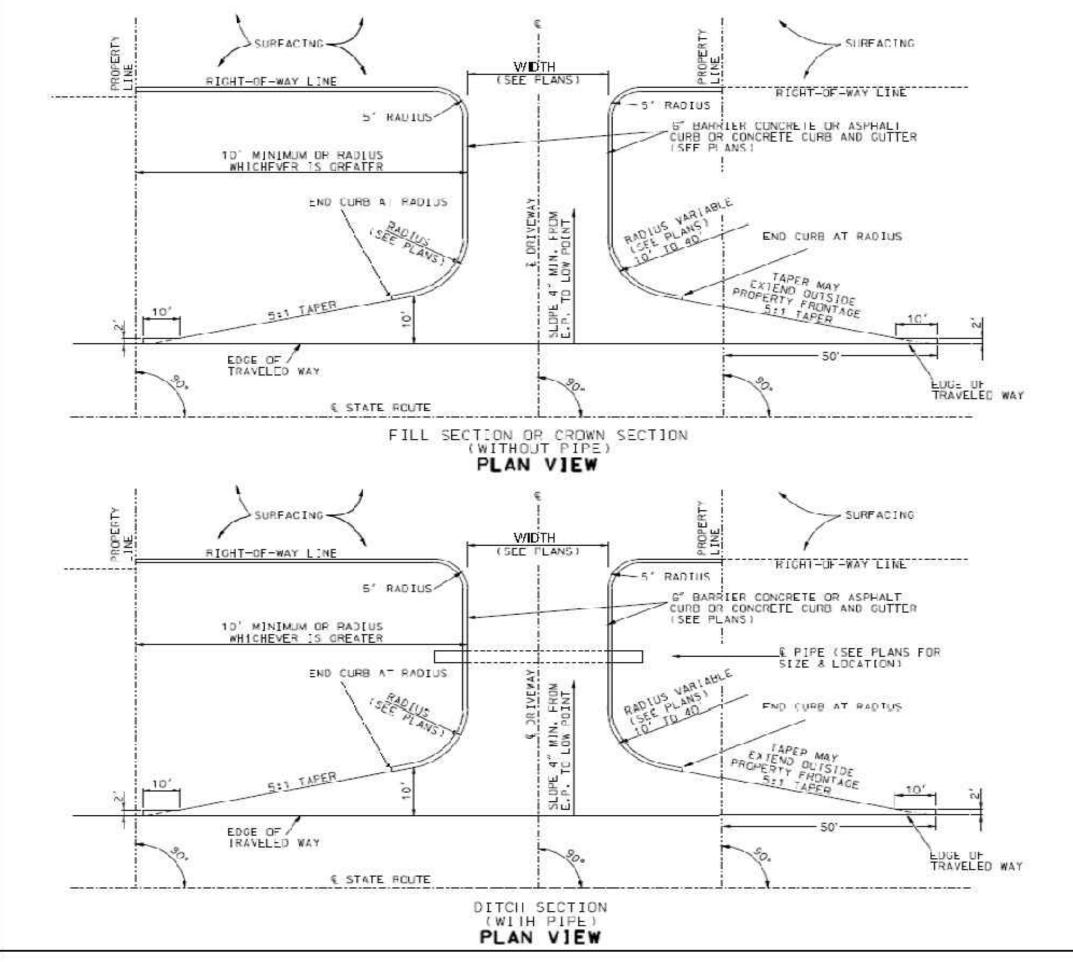
MATERIAL TO 6" ABOVE TOP OF PIPE.

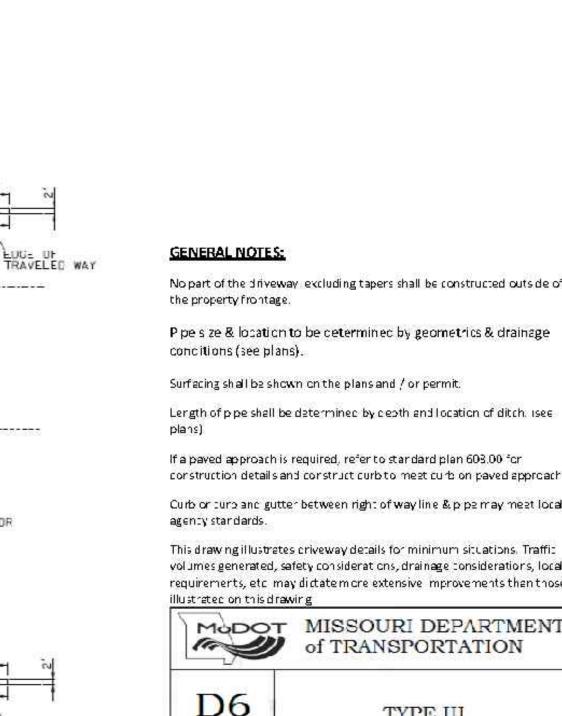
5. CONTRACTOR SHALL BE RESPONSIBLE FOR

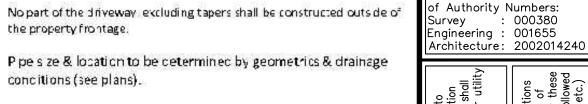
STANDARD PROCTOR DENSITY.

TRENCH SETTLEMENT.









1 OF 2

PE-2012018147

David P Van Leer, Pl MO# PE-2012018147

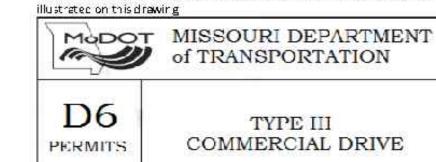
#### Surfacing shall be shown on the plans and / or permit.

Length of pipe shall be determined by depth and location of ditch, used

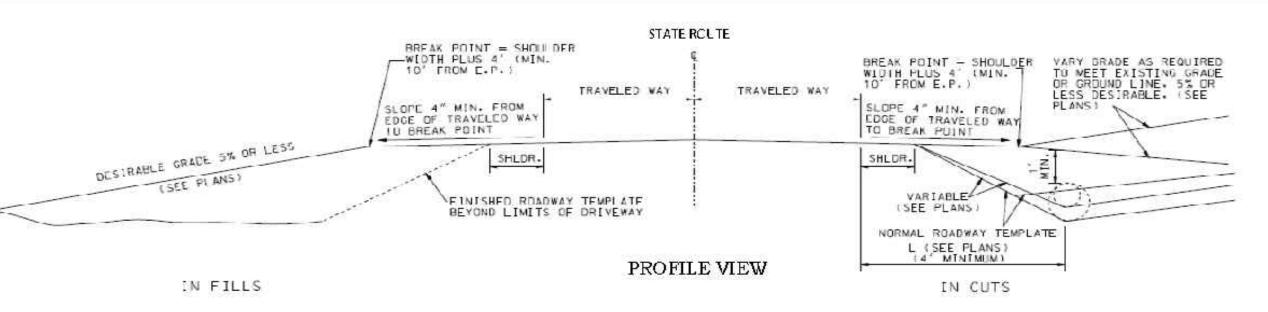
If a paved approach is required, refer to standard plan 603.00 for

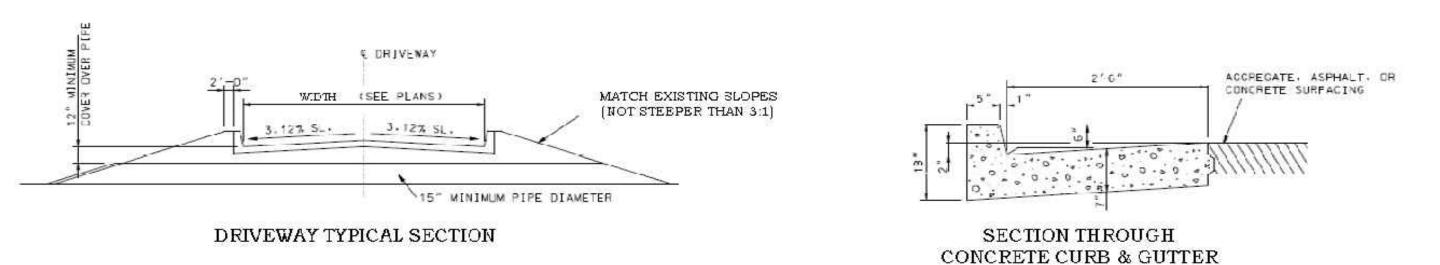
Curb or turb and gutter between right of way line & pipe may meet local. agency standards.

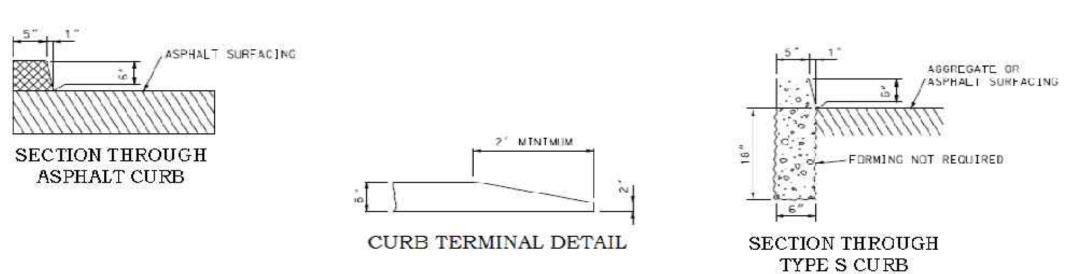
This drawing illustrates criveway details for minimum situations. Traffic volumes generated, safety considerations, drainage considerations, local requirements, etc. may dictate more extensive improvements than those illustrated on this drawing

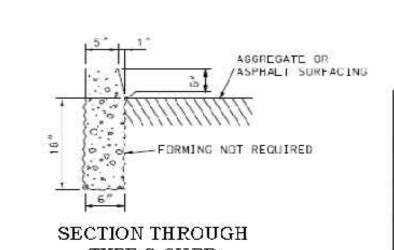


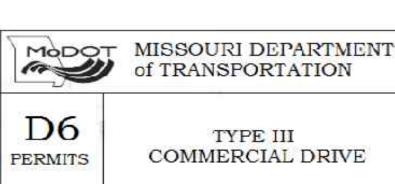
RECOMMENDED WIDTH 30 FEET







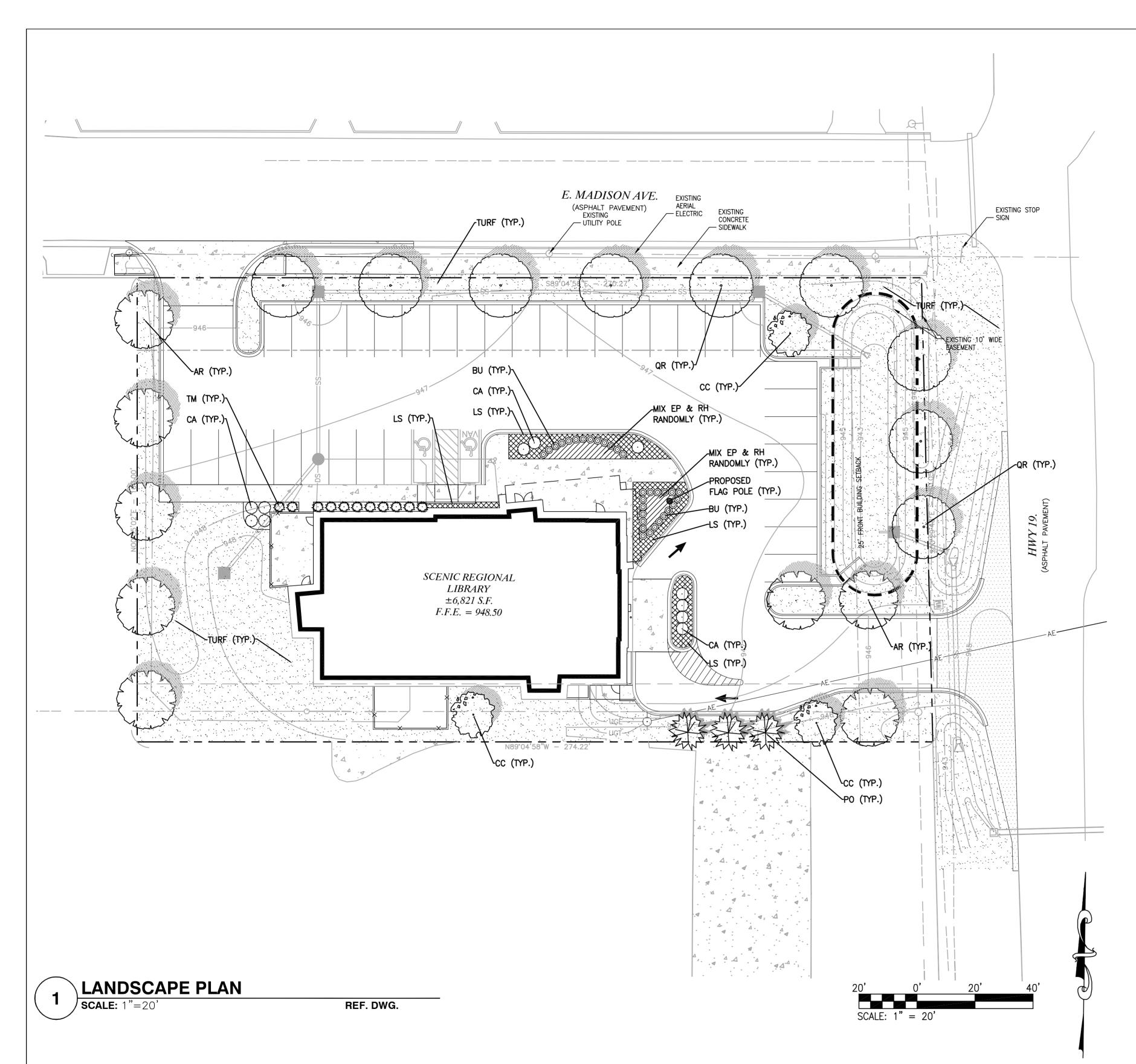




RECOMMENDED WIDTH 30 FEET | 2 OF 2

TES APR. 14, 2017 NO SCALE 16-6415

SITE



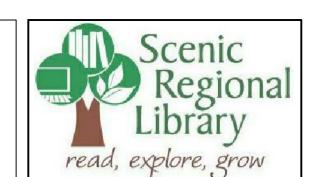
#### **PLANT SCHEDULE**

CODE	QTY.	GENUS	SPECIES	COMMON NAME	SIZE	COND.	COMMENTS
DECIDU	OUS TR	REES					
QR	9	QUERCUS	RUBRA	NORTHERN RED OAK	2.5" CAL. MIN.	B&B	
AR	8	ACER	RUBRUM	RED MAPLE	2.5" CAL. MIN.	B&B	
EVERGR	EEN TF	REES					
PO	3	PICEA	OMORIKA	SERBIAN SPRUCE	6' HT. MIN.	B&B	
FLOWER	ING TR	EES					
CC	3	CERCIS	CANADENSIS	EASTERN REDBUD	1.5" CAL. MIN.	B&B	
SHRUBS	3						
TM	11	TAXUS	X MEDIA 'DENSIFORMIS'	YEW	3 GAL.	CONT.	
CA	11	CEANOTHUS	AMERICANUS	NEW JERSEY TEA	2 GAL.	CONT.	
BU	32	BUXUS	'GREEN VELVET'	GREEN VELVET BOXWOOD	18"-24" MIN.	CONT.	PLANT 30" O.C.
NATIVE	GRASSI	ES					
EP	42	ECHINACEA	PURPUREA	PURPLE CONEFLOWER	SP4	CONT.	18" O.C.
RH	42	RUDBECKIA	HIRTA	BLACK-EYED-SUSAN	SP4	CONT.	18" O.C.
GROUNE	COVE	R					
LS	250	LIRIOPE	SPICATA	LILY TURF	1 GAL.	CONT.	18" O.C.
SEED							
_	2,085	SY	-	FESCUE SEED	SEED	_	
<u> </u>				· · · · · · · · · · · · · · · · · · ·			·

#### LANDSCAPE NOTES:

- LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
   ALL LANDSCAPE SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z 60.1 "AMERICAN STANDARD FOR NURSERY STOCK."
- 3. ALL PLANTS SHALL MEET THE REQUIREMENTS OF THE STATE AND FEDERAL LAW WITH RESPECT TO DISEASE AND INSECT INFESTATION.
- 4. MULCH AREAS WITH TRIPLE GROUND HARDWOOD MULCH 3" MIN. DEPTH.
- 5. ALL LANDSCAPE SUBSTITUTIONS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE
- 6. FORMAL LINES AND GROUPINGS OF A SPECIES OF TREE, SHRUB, OR GROUNDCOVER SHALL BE MATCHED FOR SIZE, FORM, AND COLOR.
- 7. ALL BACKFILL IN PLANTING BEDS AND TREE PITS SHALL BE BACKFILLED WITH PLANTING SOIL.
- 8. ALL TREES OUTSIDE OF PLANT BEDS SHALL BE PLANTED WITH A MULCH RING. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
- 9. ALL LANDSCAPING SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN.
- 10. AT PLANTING, TREE TRUNKS MUST BE STRAIGHT WITH MINIMAL DOGLEGS.
- 11. WIRE BASKETS, BURLAP WRAPPINGS, ROPE, TWINE OR ANY SIMILAR SHIPPING MATERIALS SHALL BE REMOVED BEFORE PLANTING.
- 12. A SPADE CUT EDGE SHALL BE CREATED AT ALL LOCATIONS WHERE PLANTING BEDS ARE ADJACENT TO GRASS AREAS UNLESS OTHERWISE NOTED.
- 13. SEE CIVIL PLANS FOR TYPE AND LOCATION OF EROSION CONTROL MATERIALS.
- 14. DO NOT DISTURB EXISTING UTILITIES WITHIN WORK AREA, SILT FENCE AND PLANTINGS SHALL AVOID ANY EXISTING UTILITIES.
- 15. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. WRITTEN QUANTITIES TAKES PRECEDENCE OVER GRAPHIC QUANTITIES. NOTIFY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT OF DISCREPANCIES.
- 17. THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE LANDSCAPE ARCHITECT MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- 18. THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE—STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
- 19. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
- 20. THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE WITH THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- 21. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" 12" AND AMENDED PER SPECIFICATIONS.
- 22. ALL LANDSCAPED AREAS ARE TO HAVE SOIL PREPARATION PER SPECIFICATIONS. (MINIMUM RATE OF 3 CU. YDS. OF ORGANIC MATTER PER 1000 S.F.). TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
- 23. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- 24. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- 25. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO DOING WORK.
- 26. PLACE PLANT MATERIAL IN SHRUB BED SO THAT ONCE PLANTS GROW TO FULL SIZE THEY ARE FULLY
- CONTAINED WITHIN THE SHRUB BED AREA AND DO NOT HANG OVER THE EDGER LINE.

  27. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- 28. SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY A SPADE CUT EDGE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3"OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE
- 29. ALL SHRUB BEDS ARE TO BE MULCHED WITH MIN. 3" DEPTH, SHREDDED HARDWOOD BARK MULCH.
- 30. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
- 31. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH SEED TO MATCH EXISTING TURF SPECIES.
- 32. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
- 33. ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
- 34. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE



BRARY
VENSVILLE BRANCH
3 OLIVE STREET (HWY. 19)

MA SD

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SHEET TITLE:

LANDSCAPE PLAN

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

FOLLOWING:

- MNIMUMINTERSECTION STRENGTH LIMTS @MAIN TEE/CROSS TEE IS 60 LBS
- PROMDEMN. 12-GAUGE VERTICAL HANGER WIRE AT 4-0" O.C. MN.
- MAINTEE CLASSIFICATION TO BE INTERVEDIATE- OR HEAVY DUTY.
- 1 IN 6 MAX PLUMB OF VERTICAL HANGER WIRES REQUIRED.
- PROMDE MINIMUM7/8" PERIMETER CLOSURE (MOLDING). IF MOLDING IS LESS THAN 7/8" PROMDE NO. 12 GA HANGER WIRES AROUND ENTIRE PERIMETER OF CEILING AT EACH TEE AT A MAX. OF 8" OFF THE WALL AND 4-0" EACH DIRECTION AT NO MORE THAN 1-IN-6 OUT OF PLUMB; ATTACH TOWALLOR STRUCTURE ABOVE.
- PROMDEMIN. 3/8" GRID END TO WALL CLEARANCE.
- GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS IS NOT PERMITTED. TIE PERIMETER TEE ENDS TOGETHER
- PARTITION ATTACHMENT IS ALLOWED ONLY OF CEILING IS ABLE TO MOVE LATERALLY.

#### 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 RIGDLAY-IN OR CAN LIGHT FIXTURES WEIGHING LESS THAN 10 LBS PROMDE (1) WIRE TO STRUCTURE (MAY BE SLACK). FOR RIGID LAY-IN OR CAN LIGHT FIXTURES WEIGHING FROM 10 TO 56 POUNDS PROMDE (2) VERTICAL SUPPORT WIRES (MUST BE SLACK). FOR LIGHT FIXTURES

#### SERMCE APPLICATIONS:

STRUCTURE.

ALL MECHANICAL AIR TERMINALS MUST BE POSITIVELY ATTACHED TO THE CEILING GRID. FOR TERMINALS WEIGHING FROM 20 TO 56 POUNDS PROMDE (2) VERTICAL SUPPORT WIRES (MAY BE SLACK) FOR TERMINALS WEIGHING GREATER THAN 56 POUNDS PROMDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE.

GREATER THAN 56 POUNDS PROMDE DIRECT AND INDEPENDENT SUPPORT FROM THE BUILDING

SPRINKLER HEADS AND OTHER PENETRATIONS REQUIRE A M.N. 3/8" CLEARANCE ON ALL SIDES. CABLE TRAYS AND ELECTRICAL CONDUIT DO NOT REQUIRE INDEPENDENT SUPPORT OR BRACING.

- THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORMPROFESSIONAL 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 WORD "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO ARCHITE-OF-RECORD,
- THE WORDS "CONSTRUCTION TEAM" REFER TO ALL PARTIES INVOLVED IN THE CONSTRUCTION PHASE, INCLUDING BUT NOT LIMITED TO: THE CLIENT AND THEIR CONSULTANTS; THE BUILDING OWNER, THE CONSTRUCTION MANAGER, THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS; THE CONSULTING ENGINEERS AND THE
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SUPERSEDES ANY DIMENSIONAL INFORMATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT IMMEDIATELY.
- THE WORD "PROMDE" AS USED IN THESE DOCUMENTS MEANS FURNISH AND INSTALL 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. THE WORD "MNIMUM" OR "MN" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT
- THE WORD "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION OR DIMENSION IS THE SAVE OR REPRESENTATIVE FOR SIMLAR CONDITIONS THROUGHOUT. 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 "+/-", INFORMARCHITECT BEFORE PROCEEDING.

#### GENERAL NOTES: REFLECTED CEILING PLAN

- REMEWCEILING 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 ACCUSTICAL CEILING GRID AND TILE SYSTEMS ON PLAN TO BE ACT-1. CENTER GRID ON COLUMN CENTERLINE 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 SEISMC INFORMATION ON SHEET
- 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.
- CEILINGS. COORDINATE WITH ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- REFER TO LIGHT FIXTURE LEGEND FOR LIGHT FIXTURE SPECIFICATION AND ADDITIONAL INFORMATION
- U.N.O. ALL G.W.B. CEILINGS TO BE PAINTED PT-2. REFER TO FINISH LEGEND FOR
- SPECIFICATION. VERIFY EXACT LOCATION OF ALL RECESSED DOWNLIGHTING IN G.W.B.CEILINGS.
- COORDINATE WITH ARCHITECT BEFORE PROCEEDING WITH THE WORK U.N.O. INSTALL LINEAR DIFFUSERS IN ALL G.W.B. AND A.C.T. CEILINGS.
- 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.
- COORDINATE AND VERIFY LOCATION OF LIGHT SWITCHES, THERVOSTATS, FIRE ALARVIS, 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 MOISTURE RESISTANT. ELECTRICAL CONTRACTOR TO COORDINATE SWITCHING AND DIMMING REQUIREVENTS 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 ROOMOR OPEN OFFICE AREA TO BE SWITCHED SEPARATELY. GANG ALL SWITCHES IN EACH ROOMUNDER A SINGLE
- U.N.O. POWER OUTLETS, COMMUNICATIONS RECEPTACLES, COVER PLATES, DEVICES, ETC. TC BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMMSYMBOLS AND ADDITIONAL INFORMATION.
- 20. IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEVENTS INCLUDING LIGHTING. MECHANICAL DIFFUSERS, RETURNAIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS, EXIT SIGNS, AUDIOMSUAL EQUIPMENT, SECURITY DEMCES, 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.
- ALL EXPOSED DUCTWORK TO BE RIGID METAL DUCTWORK
- U.N.O. PAINT ALL EXPOSED CEILINGS ELEVENTS INCLUDING BUT NOT LIMITED TO STRUCTURE, UNDERSIDE OF ROOF DECK, DUCTWORK, CONDUIT, PIPING, WIRING, AND SPRINKLER SYSTEVS PT-2.

#### GENERAL NOTES: FINISH

- G.C. TO REMEWAND SUBMIT TO ARCHITECT ALL MATERIALS IN FINISH LEGEND. REFER TO PLANS, ROP, ELEVATIONS, FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS FOR FINISHINFORWATION AND LOCATIONS. SAMPLES TO BE THE SPECIFIED COLOR AND FINISH FOR REMEW. SUPPLY AMNIMUMOF FIVE COPIES OF EACH ITEM ARCHITECT,
- GENERAL CONTRACTOR, SUE-CONTRACTOR, FIELD COPY, AND CLIENT. REFER TO PLANS, RCP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO ELEVATIONS FOR ADDITIONAL FINISH INFORWATION OR WHERE MULTIPLE FINISHES ARE INDICATED ON PLAN FOR THE SAVE WALL
- THE FINISH NAVE TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING
- IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND DATE OF SUBSTANTIAL COMPLETION.
- PATCH AND REPAIR EXISTING FINISHES AS REQUIRED WHERE DEMOLITION OR NEW CONSTRUCTION OCCURS. NEW FINISHES TO MATCH EXISTING IN MANUFACTURER. COLOR, FINISH, AND TEXTURE. WHERE MATERIALS ARE NOT AVAILABLE FOR EXACT MATCH, SUBMIT MATERIALS FOR SUITABLE REPLACEMENT BEFORE PURCHASE OR
- INSTALLATION. PATCH AND REPAIR OR REPLACE ANY EXISTING FINISHES IN BUILDING COMMON AREAS OUTSIDE SCOPE OF WORK IF DAWAGE OCCURS RELATED TO THE CONSTRUCTION OF THE SCOPE OF WORK
- ALL INTERIOR FINISHAND SUNDRIES TO MEET OR EXCEED CLASS II FLAWE SPREAD, 26-75 AND SWOKE DEVELOPMENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE
- ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723 (ASTIV-E849A) FLAWE SPREAD 20 OR LESS. SMOKE DEVELOPED 400 OR LESS.
- ALL VINML WALL COVERING FIRE HAZARD CLASSIFICATION (ASTIV-E-84) FLAVE SPREAD 5, FUEL CONTRIBUTION 0, SMOKE DENSITY FACTOR 5 MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES TO REWAIN DURING
- CONSTRUCTION. CLEAN AND PREPARE FLOOR AREA SCHEDULED TO RECEIVE NEW FLOORING SO THE AREAS ARE ABLE TO ACCEPT NEW FLOORING, AND MAINTAIN REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSHAND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH.
- U.N.O. ALL PARTITIONS, EXTERIOR WALLS AND COLUMNS TO RECEIVE PAINT PT-1 AND BASE RE-1.
- U.N.O. ALL G.W.B. CEILINGS TO BE PAINTED PT-2. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISHES.
- U.N.O. ALL HOLLOWIVETAL FRAVES TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- U.N.O. ALL METAL DOORS TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION
- U.N.O. ALL PAINTED SURFACES TO RECEIVE A MINIMUMOF ONE (1) PRIMER COAT AND THEN TWO (2) FINISH PAINT COATS. TINT PRIMER COAT PER MANUFACTURERS
- SPECIFICATIONS. U.N.O. ALL PARTITIONS RECEIVING PAINT (PT-?), (PT-?), OR (PT-?) TO RECEIVE A LEVEL FIVE (5) FINISH PRIOR TO PRIME AND FINISH COATS TO AVOID PAINT FLASHING.
- ADDITIONAL FINISH COATS WILL BE REQUIRED. U.N.O. ALL GLASS IN DOORS AND SIDELITES TO BE GLASS GL-2.
- U.N.O. ALL WOOD DOORS AND TRIM TO RECEIVE STAIN ST-1. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- ANY WALLCOVERING WITH RECOR BACKING TO BE ADHERED WITH HEAVY-DUTY CLAY
- CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR
- SURFACE, AS REQUIRED FOR NEWFINISH. U.N.O. ALL FLOORING SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. VERIFY WITH ALL MANUFACTURERS AND SUPPLIERS.
- U.N.O. ALL FLOORING TRANSITIONS TO BEGIN AT CENTER LINE UNDER DOOR REFER TO
- TRANSITION DETAILS FOR ALL FLOORING CHANGES. U.N.O. ALL RESILIENT BASE TO BE RESILIENT BASE RE-1, 4" STRAIGHT AT CARPET AND 4"
- COVE AT HARD SURFACE FLOORING. U.N.O. ALL RESILIENT AND TILE FLOORING TO EXTEND UNDER MILLWORK
- ALL COUNTERTOP EDGE PROFILES TO BE AN EASED EDGE. REFER TO INTERIOR ELEVATIONS AND MILWORK SECTIONS FOR FINISH INFORMATION. U.N.O. ALL WALLCOMERING SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- AFTER HANGING 3 LENGTHS OF THE WALLCOVERING MATERIAL, CHECK FOR ANY DEFECTS. IF THERE IS A PROBLEM CONTACT YOUR SUPPLIER IMMEDIATELY, IF THE PROBLEM CANNOT BE RESOLVED IN A TIMELY MANNER, CONTACT THE ARCHITECT.
- U.N.O. ALL CABINETS HARDWARE PULLS HM-1. 29
- U.N.O. ALL MILLWORK BACKSPLASHES TO BE 4" TALL 30. U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH FINISH OF EXTERIOR
- MLLWORK.
- U.N.O. ALL MILLWORK INTERIORS TO BE WHITE MELAMINE.
- PAINT ALL PLYWOOD TO MATCH NEW WALL FINISH TO WHICH IT IS ATTACHED. WOOD VENEERS TO BE APPLIED FLUSH AND SWOOTH TO SUBSTRATE WITH NO RIPPLING
- NO GLUE UP WOOD BASE TOLERATED.
- ALL WOOD SHALL BE OF THE SAVE SPECIES AND SAVE CUT OF WOOD.
- ALL WOOD (VENEER, HARDWOOD) SHALL BE ORDERED AT THE SAVE TIME FROM THE SAVE LOT WITH A SAVPLE FROM THE LOT SUBMITTED TO THE ARCHITECT FOR APPROVAL. NOTIFY ARCHITECT IMMEDIATELY OF NEED TO HAVE TWO LOTS OF WOOD, IN WHICH CASE A SAVPLE FROM EACH LOT MUST BE SUBMITTED FOR APPROVAL
- MILLWORK CONSTRUCTION TO COMPLY WITH LATEST EDITION OF A W.I. STANDARDS.

U.N.O. ALL PAINTED SURFACES TO RECEIVE THE FOLLOWING FINISHES: G.W.B. VERTICAL WALL SURFACES - EGGSHELL (SATIN) G.W.B. CEILINGS, SOFFITS, BULKHEADS - FLAT HOLLOWMETAL SURFACES - SEM-GLOSS PAINTED WOOD SURFACES - SEM-GLOSS CONCRETE MASONRY UNIT - EGGSHELL

#### GENERAL NOTES: ARCHITECTURAL

- THE CONTRACTOR SHALL WSIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON, AND SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND AS AMENDMENTS MAY BE MADE AS CONSTRUCTION PROCEEDS, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, INCONSISTENCIES, ERRORS OR OMSSIONS THAT MAY BE DISCOVERED. IN SUCH CASES THE CONTRACTOR IS TO OBTAIN CLARIFICATION OR VERIFICATION OF INTENT PRIOR TO PROCEEDING WITH THE WORK
- THE WORK IS TO BE PERFORVED 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 MOLATION, INCLUDING COSTS ASSOCIATED WITH REPAIRING, REPLACING OR OTHERWISE BRINGING THE WORK INTO CONFORMANCE. THE CONTRACTOR IS TO BRING TO THE ARCHITECT'S ATTENTION ANY CONDITIONS REPRESENTED IN THE CONTRACT DOCUMENTS THAT ARE NOT IN CONFORMANCE WITH APPLICABLE REQUIREMENTS.
- 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 DOCUMENTS FOR USE BY INSPECTORS AT TIMES OF INSPECTION
- 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
- WHERE WORK OR EQUIPMENT IS INDICATED AS 'NOT IN CONTRACT (NIC)' IN THE DOCUMENTS, SUCH WORK OR EQUIPMENT SHALL BE PROMDED OUTSIDE THE CONTRACT SCOPE REPRESENTED IN THESE DOCUMENT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH NIC ITEMS AND COOPERATE TO AFFECT THE IMPLEMENTATION OF SUCH WORK OR INSTALLATION.
- DETAILS NOT SHOWN ARE TO BE SIMLAR IN CHARACTER TO THOSE DRAWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETER- MINED THE CONTRACTOR IS TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK
- PROMDE 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 GYPSUMBOARD DUE TO THICKNESS OF PLATES BETWEEN STUDS AND GYPSUMBOARD.
- TO PREVENT GALVANIC ACTION BETWEEN DISSIMLAR METALS, WHERE DISSIMLAR METALS COME INTO CONTACT WITH EACH OTHER, WHERE METALS COVE INTO CONTACT WITH WOOD, CONCRETE OR MASONRY, WHERE RUNOFF FROMAMETAL SURFACE FLOMS OVER A DISSIMLAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMLAR METALS, BREAK THE CONTACT BETWEENMATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF BITUMNOUS COATING OR AN ELASTOVERIC FILMUNLESS OTHER SEPARATOR IS INDICATED IN THE CONTRACT DOCUMENTS.
- STEEL EXPOSED TO WATER AND/OR EXTERIOR WEATHER CONDITIONS IS TO BE GALVANIZED UNLESS INDICATED OTHERWISE. WHERE CUITING, FASTENING, ANCHORAGE OR CONNECTION CONDITIONS RESULT IN BREAKS IN THE GALVANIZING COATING, RESTORE COATING OR APPLY ADDITIONAL COMPATIBLE PROTECTIVE COATING TO MAINTAIN INTEGRITY OF PROTECTION
- SHEET METAL FLASHING SHALL BE OF APPROPRIATE THICKNESS AND SIZES, AND DETAILED, CONFIGURED AND INSTALLED SO AS TO ALLOW FOR ACCEPTABLE THERWAL MOVEMENTS WITHOUT MSIBLE DISTORTIONS, LEAKS OR FAILURES OF THE FLASHING SYSTEMS ABILITY TO PERFORMAS REQUIRED BY THE CONTRACT DOCUMENTS.
- EDGE OF DOOR SHALL BE LOCATED 6" OFF PERPENDICULAR WALL UNLESS OTHERWISE NOTED. ALL WOOD BLOCKING TO SECURE CABINETS, MARKER BOARDS, ETC. TO PARTITIONS SHALL BE FIRE
- RETARDANT WOOD BLOCKING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND SHALL NOTIFY ARCHITECT OF ANY OMSSIONS, DISCREPANCIES, AND/OR CONFLICTS
- BEFORE PROCEEDING WITH THE JOB. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN LARGE SCALE DETAILS GOVERN OVER SWALL
- SCALE PARTITIONS SHALL BE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE. ALL DISSIMLAR METAL MATERIALS SHALL BE ISOLATED WITH A NON-METALLIC SEPARATOR
- ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROMED BY U.L. OTHER RECOGNIZED STANDARD FOR USE IN SUCH ASSEMBLIES. ALL BUILDING ACCESSIBILITY IS DESIGNED AND SHALL BE IN ACCORDANCE WITH I.B.C., ANSI 117.1 2003, ADAAG AND DOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, WHICHEVER STANDARD
- PROMDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEVENT. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. THE OPERATION OF THE SECURITY DEMCES SHALL BE COMPLIANT WITH
- SIGNAGE INDICATING ACCESSIBLE ENTRANCES, RESTROOMS, SIGNS PLAINLY VISIBLE STATING "ELECTRICAL ROOM" AND ANY OTHER INTERIOR SIGNAGE REQUIRED BY CODE SHALL BE PROMDED BY OWNER AND INSTALLED BY CONTRACTOR
- ALL EXITS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROMDING AN ACCESSIBLE MEANS OF EGRESS, SHALL PROMDE SIGNS INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS. SIGNS WILL BE BY OWNER AND INSTALLED BY CONTRACTOR SEE SHEET A-902 FOR PARTITION TYPES.
- 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 MECHANISVS, PUSH-TYPE MECHANISVS, AND L-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.

IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT

FROMAN 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 MINIMUMOPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMNISTRATIVE 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 DOORS SIDE AND AT A HEIGHT OF 60 INCHES ABOVE THE FLOOR. SIGNS MAY BE LATCH PLACED ON THE NEAREST ADJACENT WALL WHEN THERE IS NO WALL SPACE ON THE LATCH SIDE
- EACH GLAZING UNIT SHALL BEAR THE MANUFACTURERS LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. GLAZING LOCATED WITHIN 24" OF A DOOR AND LESS THAN 60" ABOVE WALKING SURFACE SHALL BE SAFETY GLAZED.
- ACCESSIBLE TOILET FACILITIES SHALL BE IDENTIFIED WITH A SIGN, PROMDED BY OWNER AND INSTALLED BY CONTRACTOR ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE.
- ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NO MORE THAN 1/2 INCH BELOWTHE TOP OF THE DOOR THRESHOLD. DOORS SHALL HAVE A SVOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES.
- REFER TO AWI STANDARDS FOR MILLWORK CONSTRUCTION.
- INSTALL MOISTURE RESISTANT GYP. BOARD AT ALL WALLS, INCLUDING BUT NOT LIMITED TO LAVATORY LOCATIONS.
- 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 PROCUREVENT, FABRICATION OR INSTALLATION OF ANY WORK IN THE PROJECT.

FOR CORNER GUARD LOCATIONS & INFORMATION REFERENCE THE FINISH LEGEND AND FINISH



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No. Date

F (314) 807-2774

JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554

MO CERTIFICATE OF AUTHORITY A2014008380

Description

- 1			
		04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEET TITLE: SYMBOLS, ABBREVIATIONS AND

**GENERAL NOTES** 

EQUIPMENT LEGEND:

MAXIMUIV

METAL

MNIMUV

**MSCELLANEOUS** 

NOT IN CONTRACT

OWNER FURNISHED,

OWNER FURNISHED,

OWNERINSTALLED

**PLASTIC LAMINATE** 

REFLECTED CEILING PLAN

SOUND ATTENUATION BATTS

TENANT (CLIENT) FURNISHED,

TENANT (CLIENT) FURNISHED,

UNDERWRITERS LABORATORIES,

UNLESS NOTED OTHERWISE

CONTRACTOR INSTALLED

TEVANT INSTALLED

TOP OF STRUCTURE

TELEPHONE

TOP OF WALL

TYPICAL

VERTICAL

WIT⊢

WITHOUT

WOOD

WALL COVERING

TEMPERED

OPPOSITE HAND

ONCENTER

**OPENING** 

OPPOSITE

PAINT(ED)

PARTITION

PLYWOOD

CUANTITY

REFERENCE

REQUIRED

REVISION

REINFORCE(D)

RESILIENT BASE

SOLIDCORE

SPECIFICATION

SUSPEND(ED)

**SYMMETRICAL** 

SIMLAR

SOUARE

STEEL

SQUARE FOOT (FEET)

SQUARE FOOT (FEET)

CONTRACTOR INSTALLED

NOTTOSCALE

MECHANICAL

MECH, ELECT., AND PLUMBING

COFFEE MAKER (T.F.C.I.): | av | PROMDE REQUIRED ELECTRICAL AND PLUMBING. COORDINATE WITH CLIENT FOR SPECIFICATION

AND ADDITIONAL REQUIREMENTS. REFRIGERATOR (T.F.C.I.): PROMDE ELECTRICAL DUPLEX RECEPTAGLE. REF COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

ICE MAKER (T.F.C.I.): PROMDE REQUIRED ELECTRICAL AND PLUMBING. 1 IV 1 COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

MCROWAVE (T.F.T.I.): PROMDE REQUIRED ELECTRICAL COORDINATE WITH CLIENT FOR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

VENDING - SNACK (T.F.C.I.):

ADDITIONAL REQUIREMENTS.

| VENC

PROMDE REQUIRED ELECTRICAL COORDINATE

WITH CLIENT FOR SPECIFICATION AND

REFLECTED CEILING SYMBOLS LEGEND:

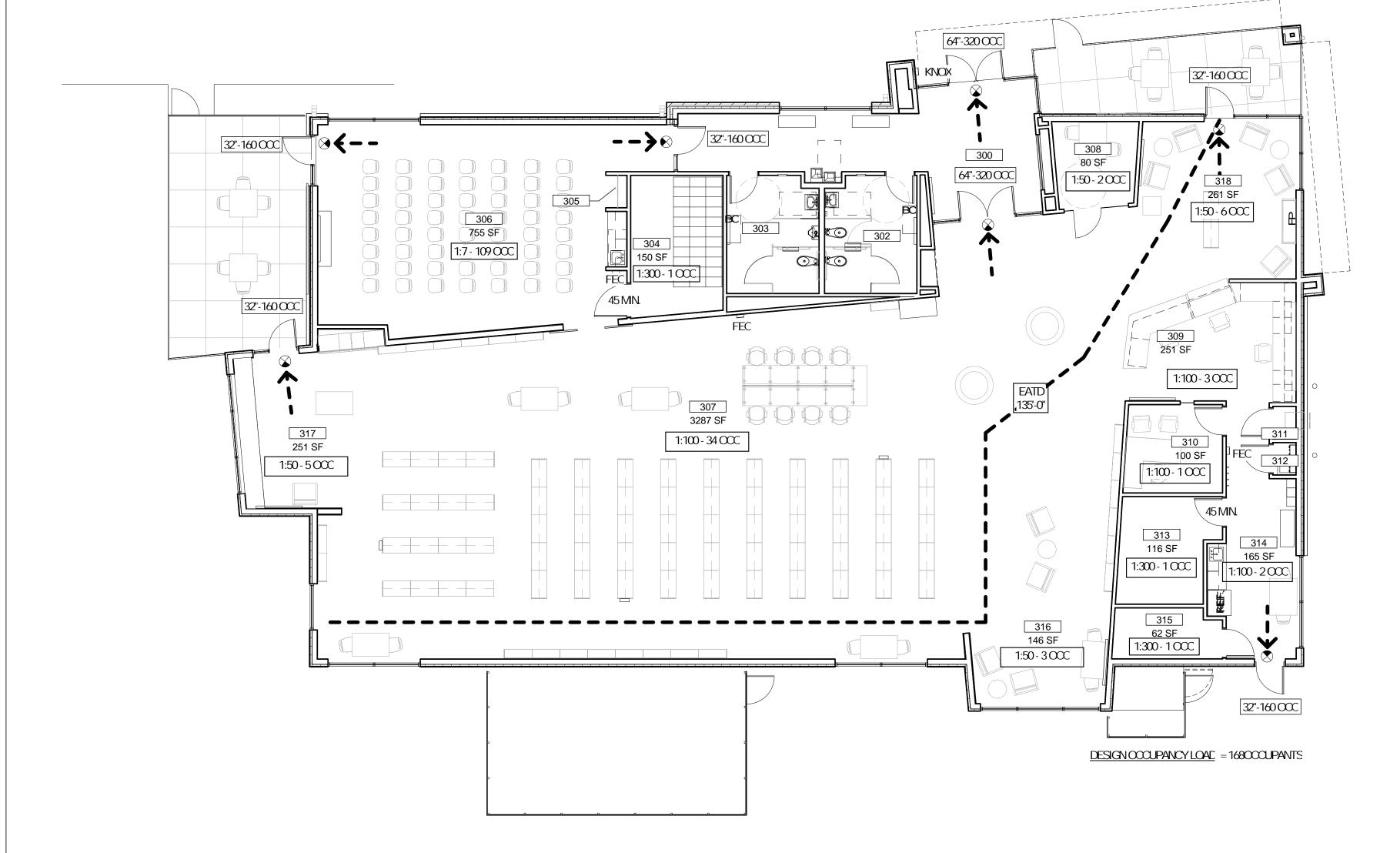
NEW2x2 CEILING GRID AND TILE, SEE FINISH LEGEND NEWGYPSUMBOARD CEILING 2x2 FLUORESCENT LIGHT FIXTURE 2'x4' FLUORESCENT LIGHT FIXTURE

RECESSED CAN LIGHT FIXTURE LINEAR PENDANT FIXTURE DECORATIVE PENDANT FIXTURE

RETURN DIFFUSER

SUPPLY DIFFUSER

EXITSIGN



1 LIFE SAFETY PLAN A-002 / 1/8" = 1'-0"

#### CODE INFORMATION

<u>AUTHORITIES HAMNGJURISDICTION:</u> CITY OF OWENSMILE, MO (GASCONADE COUNTY)

OWENSMILLE FIRE DEPARTMENT

BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION

ACCESSIBILITY: AMERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

FIRE PREVENTION: INTERNATIONAL FIRE CODE (IFC) 2003 EDITION,

MECHANICAL: INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION.

ELECTRICAL: NATIONAL ELECTRICAL CODE, 2002 EDITION

<u>PLUMBING:</u> INTERNATIONAL PLUVBING CODE (IPC) 2003 EDITION

PROPERTY MAINTENANCE: INTERNATIONAL PROPERTY MAINTENANCE CODE (IPVC) 2003 EDITION

GAS: INTERNATIONAL FUEL GAS CODE 2003 EDITION,

#### BUILDING INFORMATION

#### **RATINGS**

USE GROUPS	<u>S</u>	ELEMENT:	<u>rating</u> :
<b>A</b> -3	ASSEVBLY, LIBRARY	COLUMN	0 HOUR
S-1	MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE	CORRIDOR	OMNUT
	SAFETY PLAN, SHEET A-002)	DOOR	OMNUT
		FLOOR	0 HOUR
<b>CONSTRUCT</b>	IONTYPE:	STORAGE	0 HOUR

NON-SPRINKLERED, NOT PROTECTED

REFER TO CISCA GUIDELINES FOR REQUIREMENTS

FLOOR ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 6,747 SF 168 OCCUPANTS

ALLOWABLE HEIGHT AND AREA: USE GROUP A-3 IS MOST RESTRICTIVE USE.

ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

FIRE RESISTANCE RATINGS - HOURS: BUILDING ELEMENT TYPE TYPE IIB

STRUCTURAL FRAME, COLUMNS, GIRDERS & TRUSSES BEARING WALLS - EXTERIOR / INTERIOR NON-BEARING WALLS & PARTITIONS-INTERIOR FLOOR CONSTRUCTION INCLUDING BEAVIS & JOIST ROOF CONSTRUCTION INCLUDING BEAVS & JOIST

THE EXIT CAPACITY FOR EACH FLOOR AREA MUST BE SUFFICIENT FOR THE OCCUPANT LOAD AS CALCULATED. EXIT CAPACITY IS DETERMINED BY DIVIDING THE CLEAR WIDTH OF EACH EXIT COMPONENT BY THE APPROPRIATE FACTOR NOTED BELOW

DOORS/AISLES - 0.20" PER OCCUPANT

IBC OCCUPANCY CALCULATIONS:

OCCUPANCY TYPE:	AREA PER OCCUPA
	100
GENERAL LIBRARY STACK AREA	IW:

READING ROOMS 50 SF MEETING ROOM(S) (CONCENTRATED CHAIRS ONLY) 7SF

SECTION 903 AUTOMATIC SPRINKLER SYSTEM

903.2.1.3 GROUP A-3, NONE OF THE (3) CONDITIONS PERTAIN TO THE PROJECT THEREFORE AN AUTOMATIC SPRINKLER SYSTEMIS NOT REQUIRED.

SECTION 903.2.1.3 GROUP A-3 AN AUTOWATIC SPRINKLER SYSTEMSHALL BE PROVIDED FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS: 1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET (1115 M2); 2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE;

3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERMING SUCH OCCUPANCIES.

SECTION 1016.1 EXIT ACCESS TRAVEL DISTANCE:

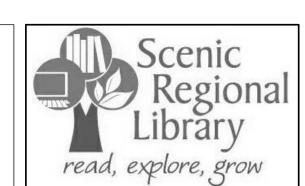
FOR NON-SPRINKLERED ASSEMBLY USE GROUP THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 200'.

## SYMBOL LEGEND

	1-HOUR RATED WALL PARTITION	ROOM SCHEDULE		
			Name	
KNOX				
	RECESSED KNOX BOX CABINET	300	VESTIBULE	
		301	CORRIDOR	
FEC	SEM-RECESSED FIRE	302	WOMENS	
	EXTINGUISHER CABINET	303	MENS	
	EGRESS PATH	304	STORAGE	
	EGESSTAIT	305	COATS	
	Voca APEA PER COS PANSA A CAR	306	MEETING ROOM	
X:X-XOCC	XOCC= AREA PER OCCUPANCY LOAC	307	CIRCULATION	
		308	STUDY	
XX'-XCCC	XX=CLEAR OPENING IN INCHES	309	WORK ROOM	
	AND EGRESS CAPACITY	310	OFFICE	
EATD	EXIT ACCESS TRAVEL DISTANCE, MAX	311	BOOK DROP	
X-X"	CONDITIONWORST CASE INDICATED	312	JANITORS CLOSET	
			STORAGE	

DIRECTION/LOCATION OF EGRESS

EXITSIGN



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E: BOOLEMAN@BRICPARTINERSHP.COM

ARCHITECT OF RECORD:

No. Date

**BREAK ROOM** MECH/ELEC

TEEN AREA CHILDREN AREA ADULT AREA

CONTACT: BRUCE COLEMAN

JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

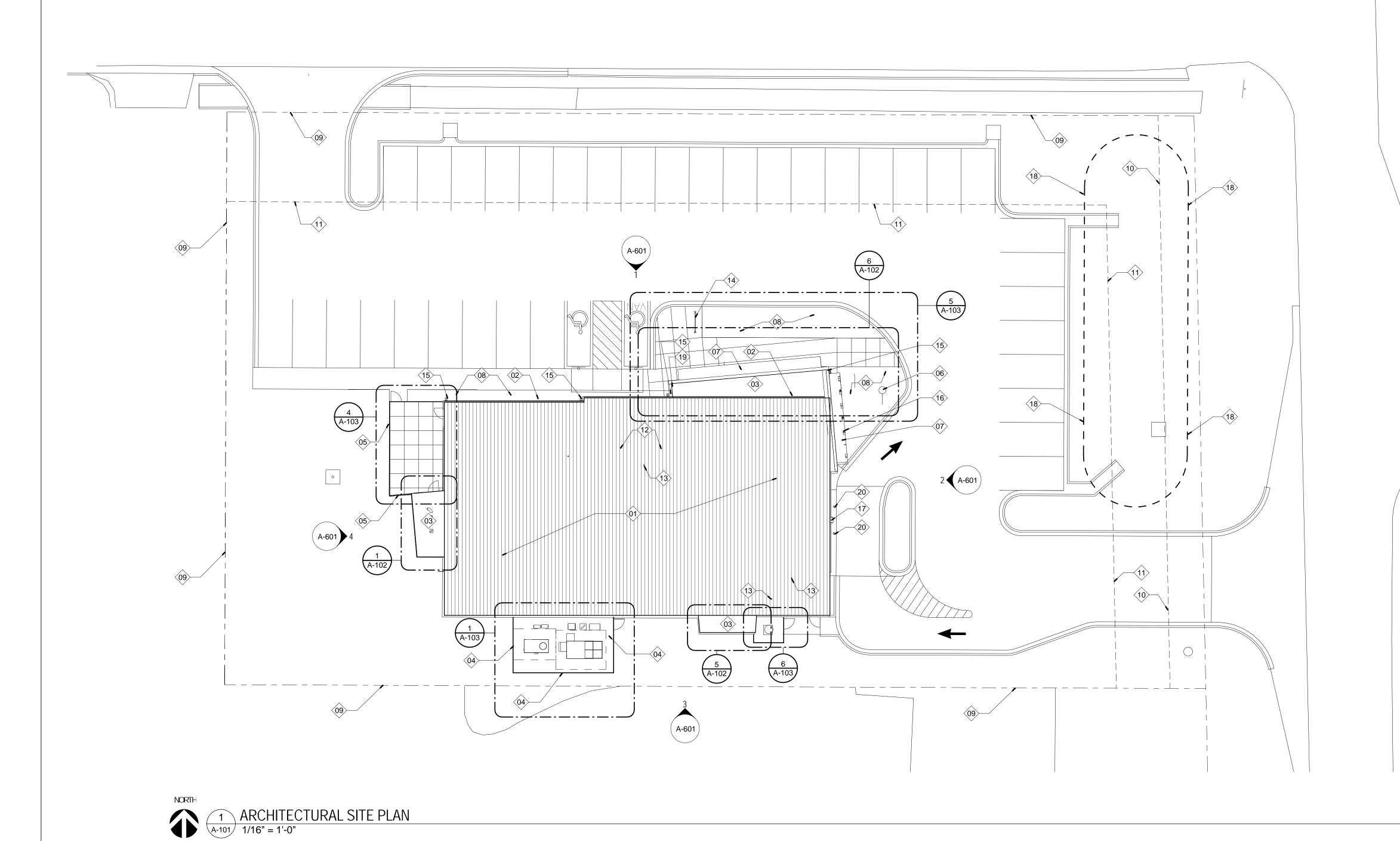
Description

		04/14/17	ISSUED FOR BID
	l :		

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEET TITLE: LIFE SAFETY PLAN



KEYED NOTES - SITE PLAN			
Keynote Number	Description		
01	STANDING SEAM MTL. ROOF SYSTEM, REFER TO SPECS.		
02	PRE-FINISHED GUTTER, REFER TO SPECS.		
03	ROOFING MEMBRANE, REFER TO SPECS.		
04	MECHANICAL SCREEN FENCING - REFER TO SPECIFICATIONS AND DETAILS		
05	PRE-FINISHED ALUM. FENCE - REFER TO SPECIFICATIONS		
06	SINGLE FLAGPOLE, REFER TO SPECS.		
07	PRE-FINISHED COMPOSITE METAL PANEL CANOPY, REFER TO SPECS.		
08	PLANTING AREA, REFER TO LANDSCAPE PLAN.		
09	PROPERTY LINE		
10	EASEMENT		
11	BUILDING SETBACK LINE		
12	EXHAUST FAN PIPING PENETRATION, SEE ROOF DETAIL.		
13	PLUMBING EXHAUST PIPING PENETRATION, SEE ROOF DETAIL.		
14	SURFACE MOUNTED BIKE RACK, REFER TO SPECS.		
15	DOWN SPOUT LOCATION - REFER TO CIVIL DWGS. FOR TIE-IN INFORMATION.		
16 BUILDING SIGNAGE - REFER TO SPECS. FOR MORE INFORMATION			
17	THROUGH WALL BOOK DROP UNIT, REFER TO SPECS.		
18	LINE OF DETENTION BASIN, REFER TO CIVIL DAWINGS.		
19	WALL SCUPPER, COLLECTOR HEAD AND DOWN SPOUT, REFER TO ENLARGED ROOF PLAN FOR MORE INFORMATION.		
20	TRAFFIC BOLLARD, REFER TO CIVIL DRAWINGS.		



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ARCHITECT OF RECORD:

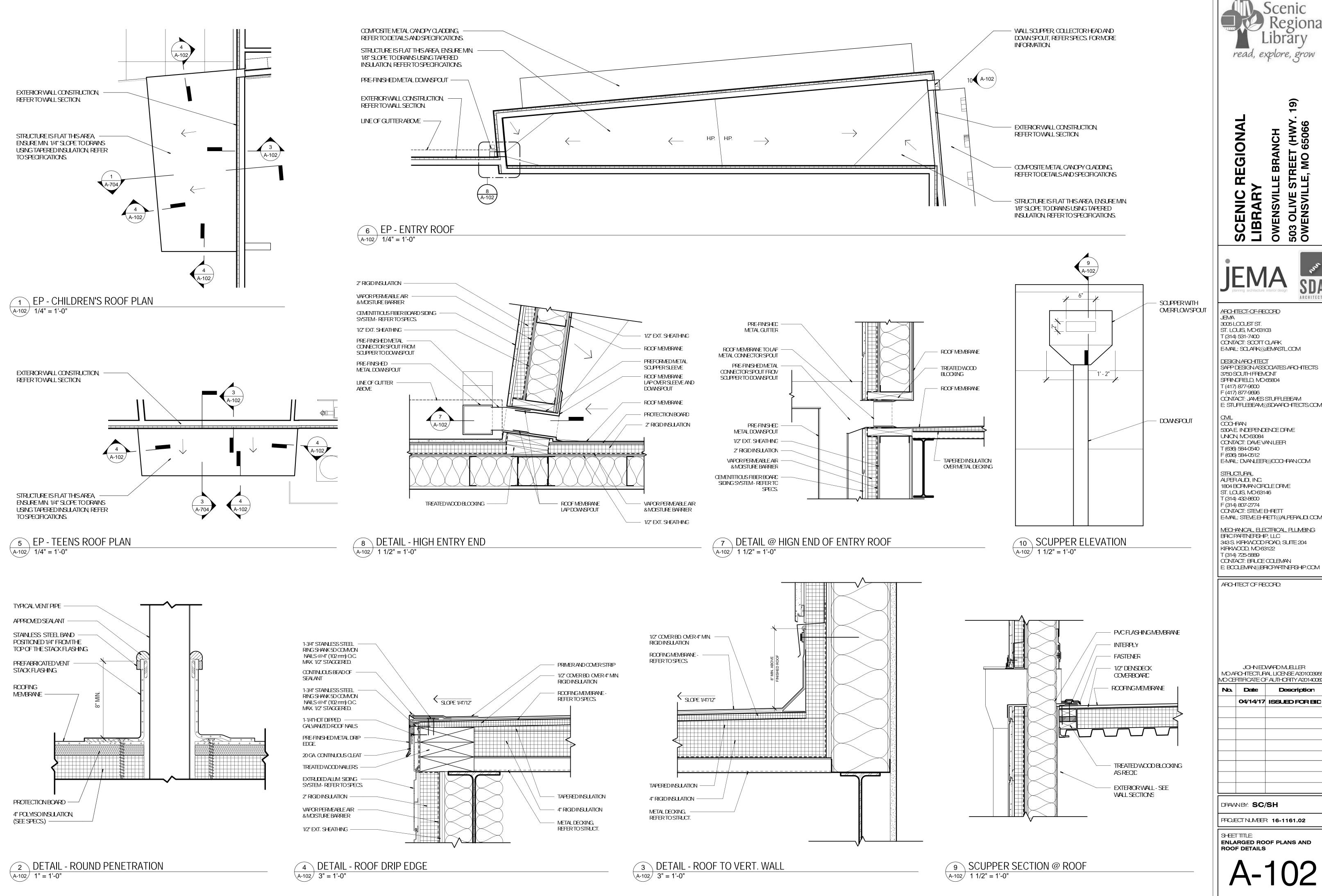
JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIRICATE OF AUTHORITY A2014008380

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No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEETTITLE:
ARCHITECTURAL SITE PLAN



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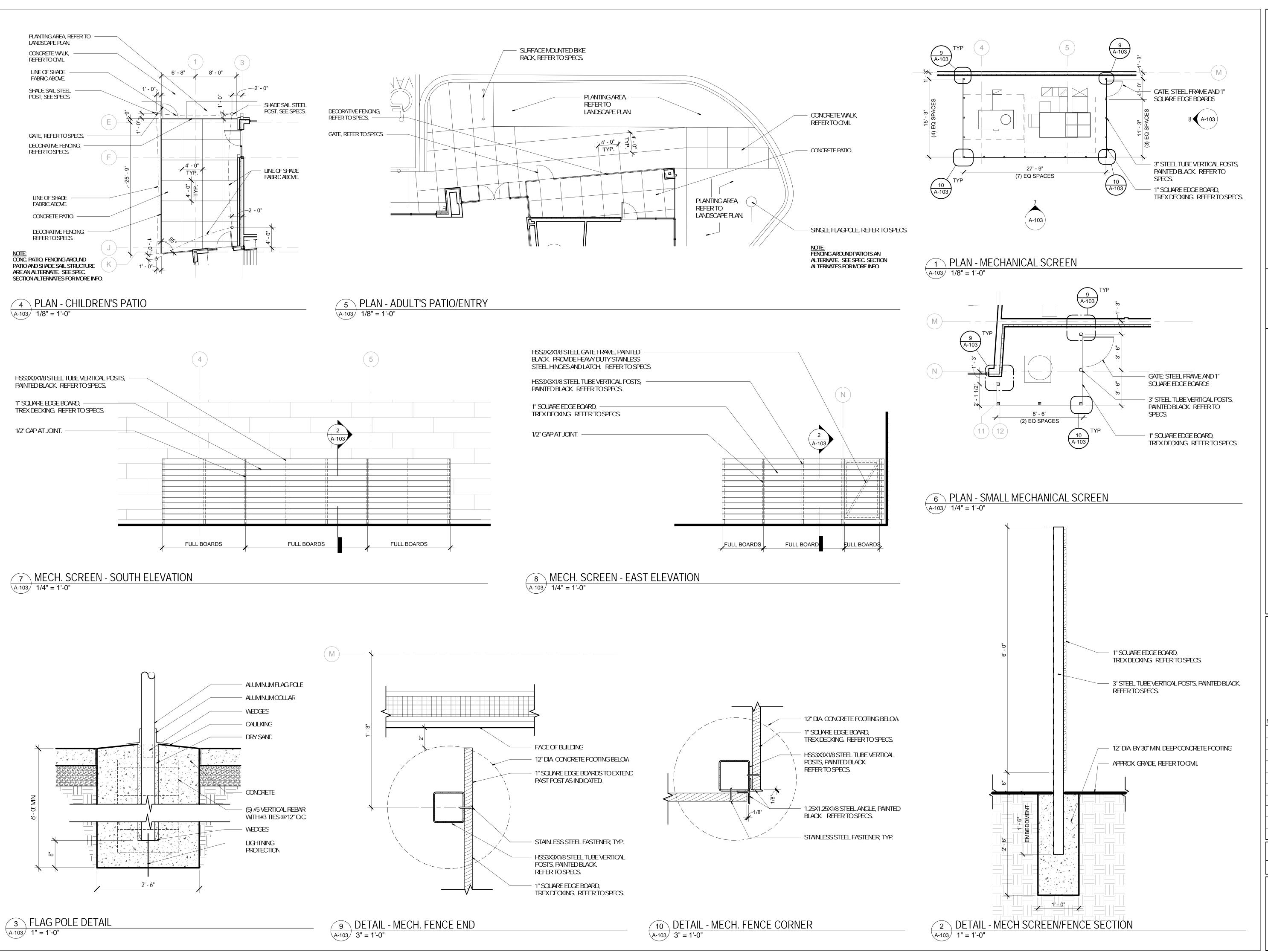
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH PROJECT NUMBER: 16-1161.02

SHEETTITLE: ENLARGED ROOF PLANS AND ROOF DETAILS



Scenic Regional Library

read, explore, grow

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ing architecture interior design

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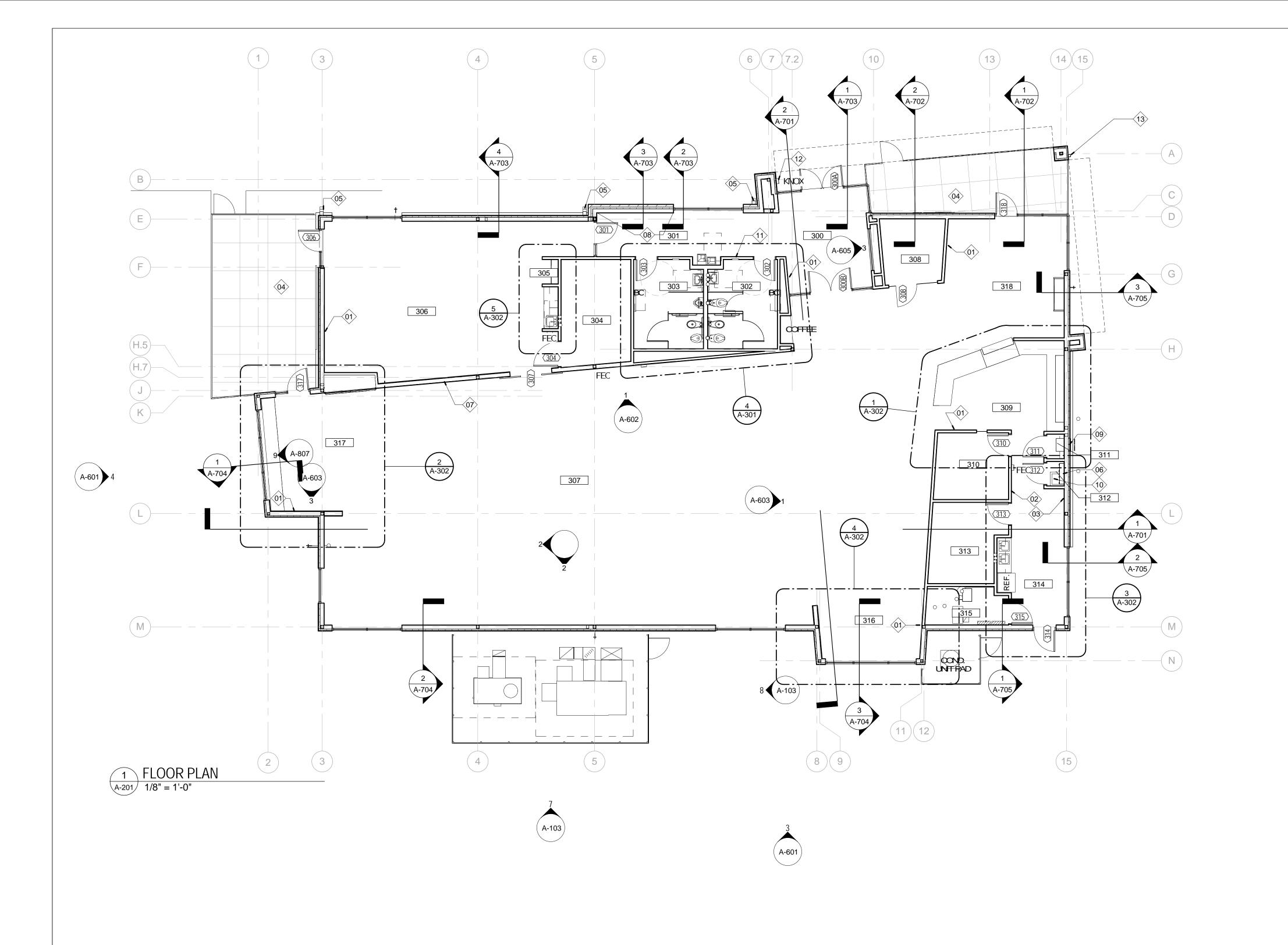
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No.	Date	Description
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PROJECT NUMBER: 16-1161.02

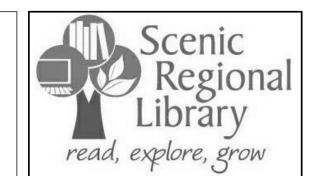
SHEET TITLE: SITE DETAILS



#### GENERAL NOTES - FLOOR PLAN

1. REFER TO SHEET A-001 FOR FLOOR PLANGENERAL NOTES

KEYED NOTES - FLOOR PLAN				
Keynote Number	Description			
01	PROVIDE BLOCKING IN WALL FOR WALL-MOUNTED DISPLAY			
02	PROVIDE BLOCKING IN WALL FOR COAT HOOKS			
03	PROVIDE BLOCKING IN WALL FOR LOCKERS			
04	OUTDOOR CONC. PATIO, FENCING AND SHADE STRUCTURE ARE ALTERNATE #1- REFER TO A-001 AND SPECS. FOR MORE INFORMATION			
05	DOWN SPOUT LOCATION - REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DWGS.			
06	PROVIDE BLOCKING IN WALL FOR WALL-HUNG SHELVING			
07	PROVIDE BLOCKING IN WALL FOR BULLETIN BOARD, C.F.C.I.			
08	PROVIDE BLOCKING IN WALL FOR DONOR WALL, O.F.O.I.			
09	IN-WALL BOOK DROP UNIT, REFER TO DETAILS AND SPECIFICATIONS.			
10	JANITOR'S MOP SINK, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.			
11	PROVIDE BLOCKING IN WALL FOR LOCKING BULLETIN BOARD CASE, C.F.C.I.			
12	LOCATION OF ADA DOOR OPERATOR, REFER TO DOOR HDWR. AND ELECTRICAL DRAWINGS.			
13	SCUPPER, COLLECTOR HEAD AND DOWN SPOUT LOCATION - REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DWGS.			



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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

		No.	Date	Description
			04/14/17	ISSUED FOR BID
ROOM SCHEDULE	$\neg \vdash$			
Name	$\dashv \downarrow$			
	TL			
VESTIBULE				
CORRIDOR				
WOMENS	TH			
MENS	$\sqcap$			
STORAGE				
COATS				
MEETING ROOM	7			
CIRCULATION		DRAWNBY: SC/SH		SH
STUDY				

WORK ROOM

BOOK DROP

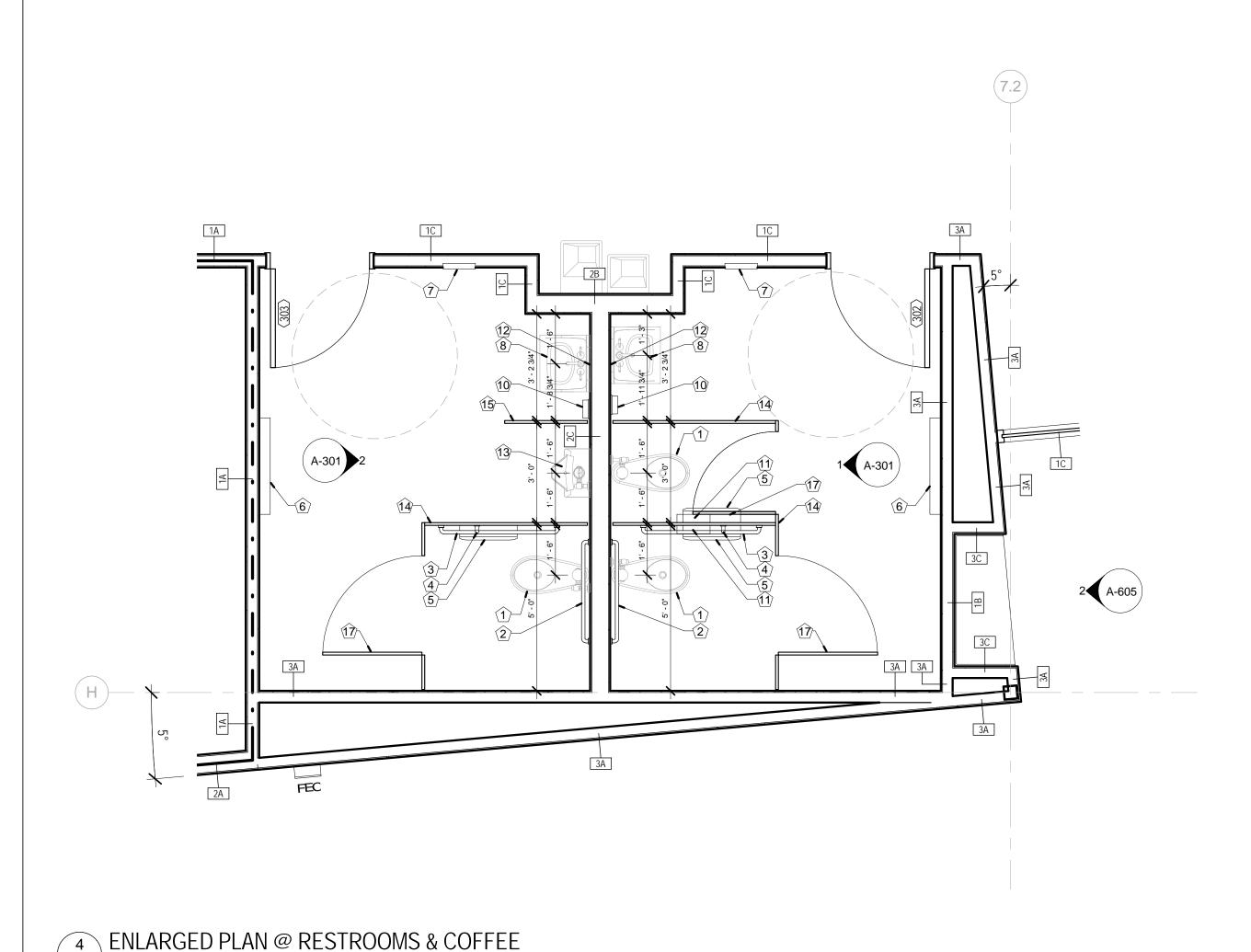
STORAGE BREAK ROOM MECH/ELEC TEEN AREA CHILDREN AREA ADULT AREA

JANITORS CLOSET

OFFICE

PROJECT NUMBER: 16-1161.02

SHEETTITLE: FLOOR PLAN - FIRST FLOOR





ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1. NUMBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

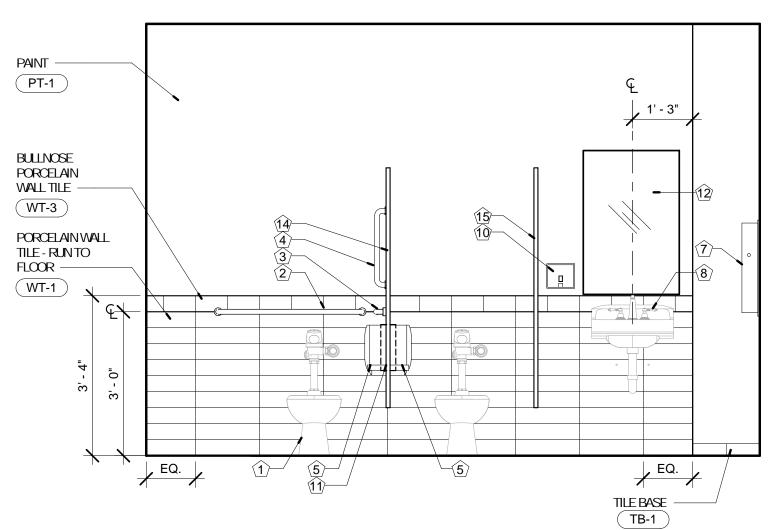
1 FLOOR-MOUNTED TOILET: SEE PLUMBING SPECS.

A-301 3/8" = 1'-0"

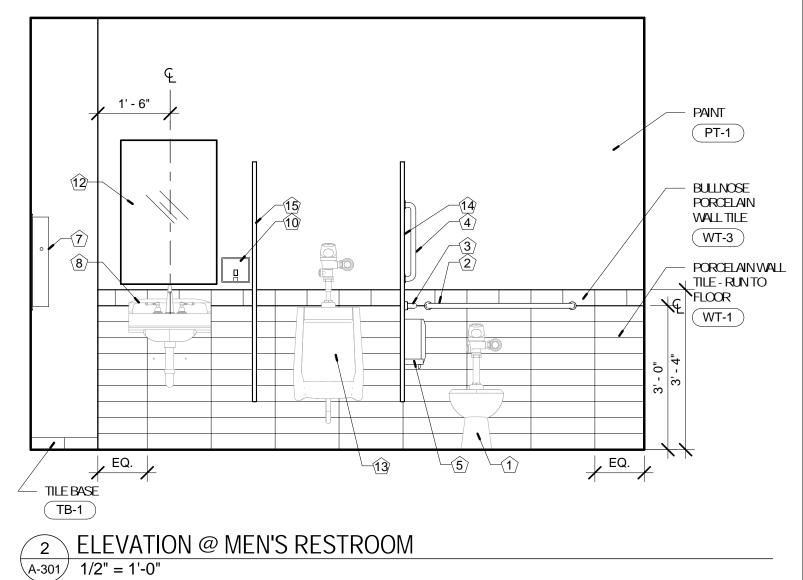
- **CRAB BAR:** BOBRICK #B-5806 X 36 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL - PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- **CRAB BAR.** BOBRICK #B-5806 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- GRABBAR: 18" GRABBAR BOBRICK MODEL #B6086 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- TOLET TISSUE DISPENSER BOBRICK #B-2888 CLASSIC SERIES MULTI-ROLL TOLLET TISSUE DISPENSER, SURFACE-MOUNTED
- CHANGING STATION: KOALA KARE PRODUCTS #KB-200, SURFACE-MOUNTED SERIES -PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING

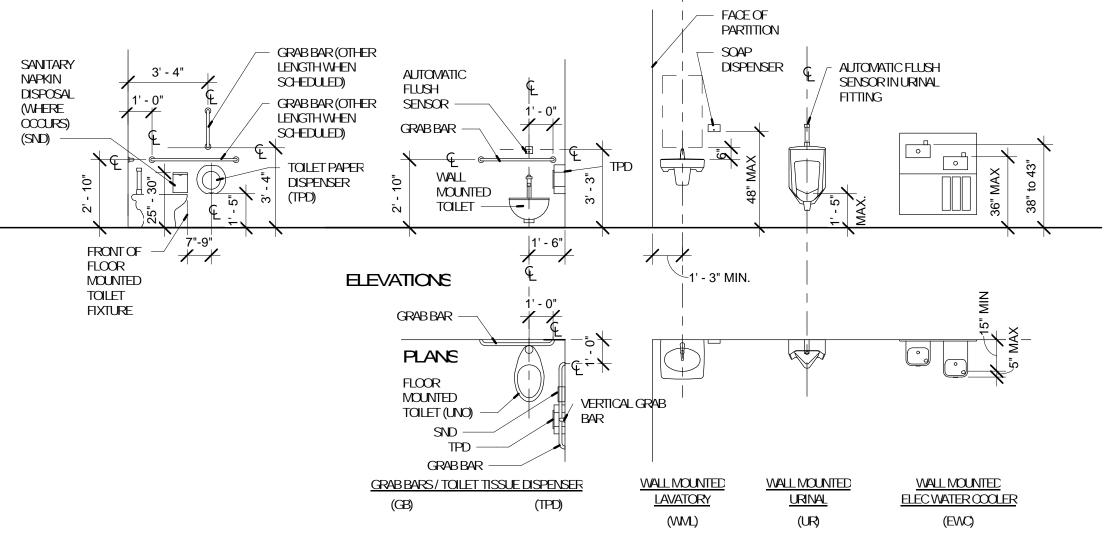
- RECESSED AUTOWATIC HAND DRYER BOBRICK #B-3725, TRIMLINE SERIES, SEM-RECESSED, SATIN FINISH STAINLESS STEEL -PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- **WALL-MOUNTED LAVATORY:** SEE PLUMBING SPECS.
- **DRINKING FOUNTAIN:** BI-LEVEL ADA COMPLIANT, SEE PLUMBING SPECS.
- **SOAP DISPENSER:** BOBRICK #B-2111 CLASSIC SERIES SURFACE-MOUNTED, SATIN-FINISH STAINLESS STEEL - PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- **SANTARY DISPOSAL:** BOBRICK #B-354 CLASSIC SERIES PARTITION-MOUNTED DUAL SIDED, SATIN FINISH STAINLESS STEEL (WOVEN'S RESTROOMS ONLY)
- 12 MRROR BOBRICK #B-165-2448, SERIES CHANNEL-FRAMED MIRROR 24"X48"
- (13) WALL-MOUNTED URINAL: SEE PLUMBING

- 14 TOLET PARTITION: SEE SPECIFICATIONS
- (15) URINAL SCREEN: SEE SPECIFICATIONS
- 16 UTILITY SHELF WBROOMHOLDER: BOBRICK #B-224 UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS
- (17) COAT HOOKS: BOBRICK #B-2116 HEAVY-DUTY CLOTHES HOOK WITH CONCEALED MOUNTING.



**\ ELEVATION @ WOMEN'S RESTOOM** A-301 1/2" = 1'-0"



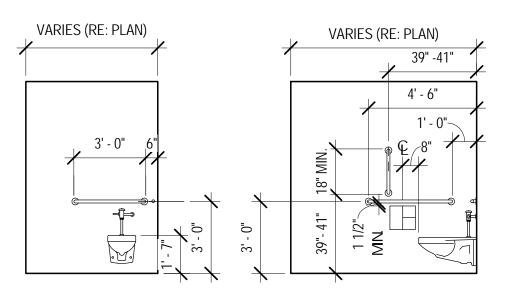


LAVATORY AND

TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS

DIMENSIONS SHOWN APPLY TO SPECIFIC MODELS ONLY. ADJUST DIMENSIONS AS REQUIRED FOR OTHER MODELS AND/OR MANUFACTURERS.

MOUNTING LOCATIONS - PLUMBING FIXTURES 1/4" = 1'-0"



1/4" = 1'-0"

MOUNTING LOCATIONS - PLUMBING FIXTURES - ADA WC

APPLICABLE A.D.A., ANSI, AND BUILDINGCODE REQUIREVENTS. PROMDE BLOCKING FOR LAVATORY AND GRAB BARS. DASHED LINES INDICATE REQUIRED CLEARANCES.

ALL FIXTURES TO COMPLY WITHANDBEINSTALLEDIN

COMPLIANCE WITH ALL

ALL DIMENSIONS SHOWN ARE

3' - 0" CLEAR

ORIENTATION ANDSWING 3' - 0"

REFERTC

PLANFOR DOOR

ANDSWING 5' - 0" CLEAR

REFERTC PLANFOR

ORIENTATION

ENLARGED TYP. RESTROOM PLANS 1/4" = 1'-0"

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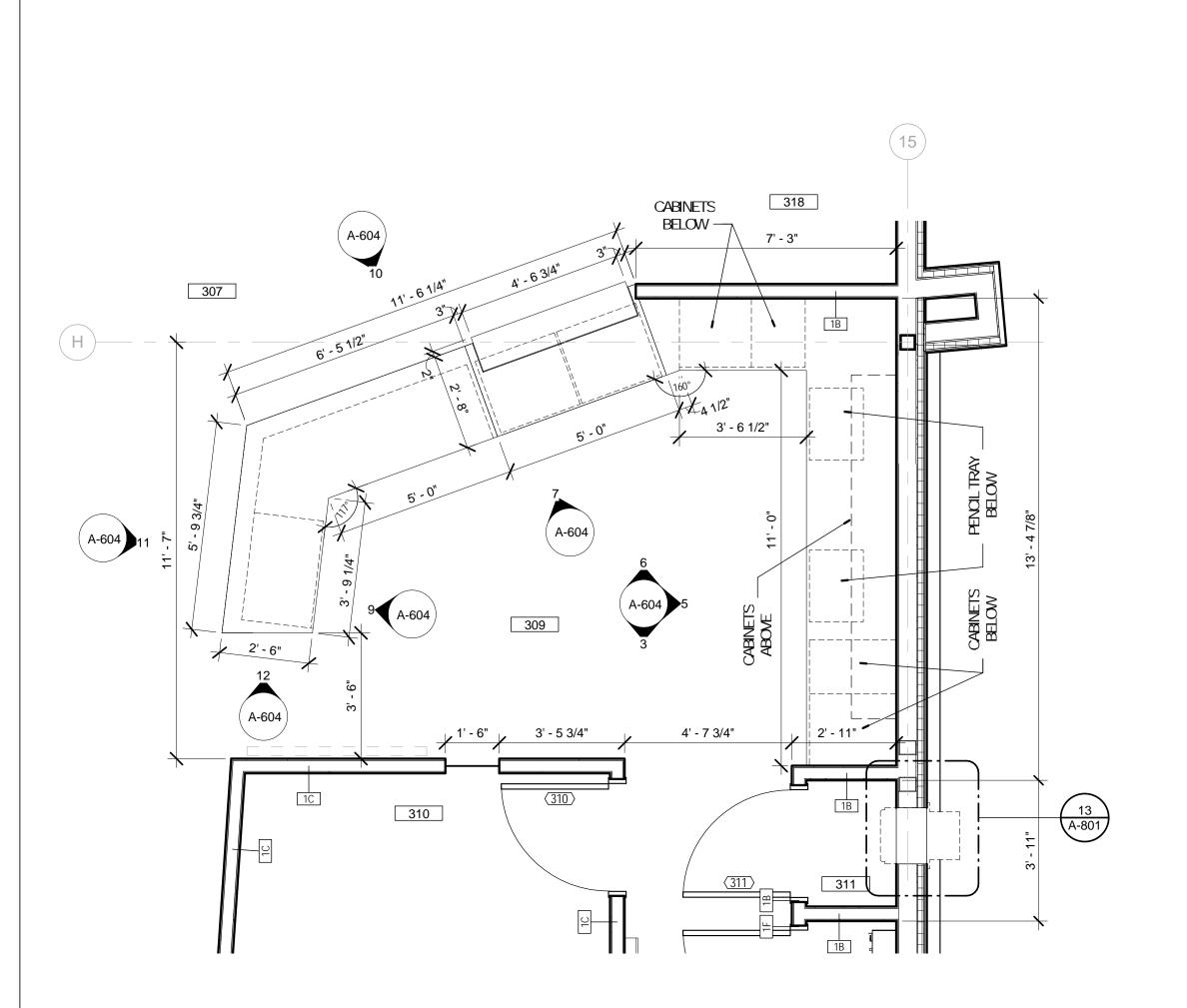
No. Date Description

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	04/14/17	ISSUED FOR BID

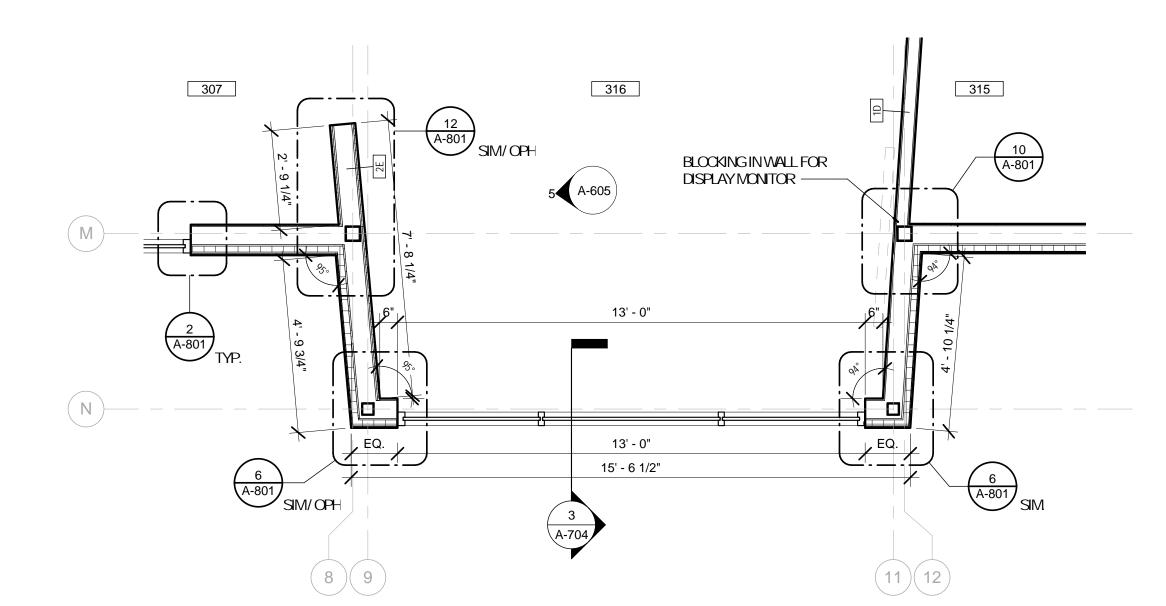
DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

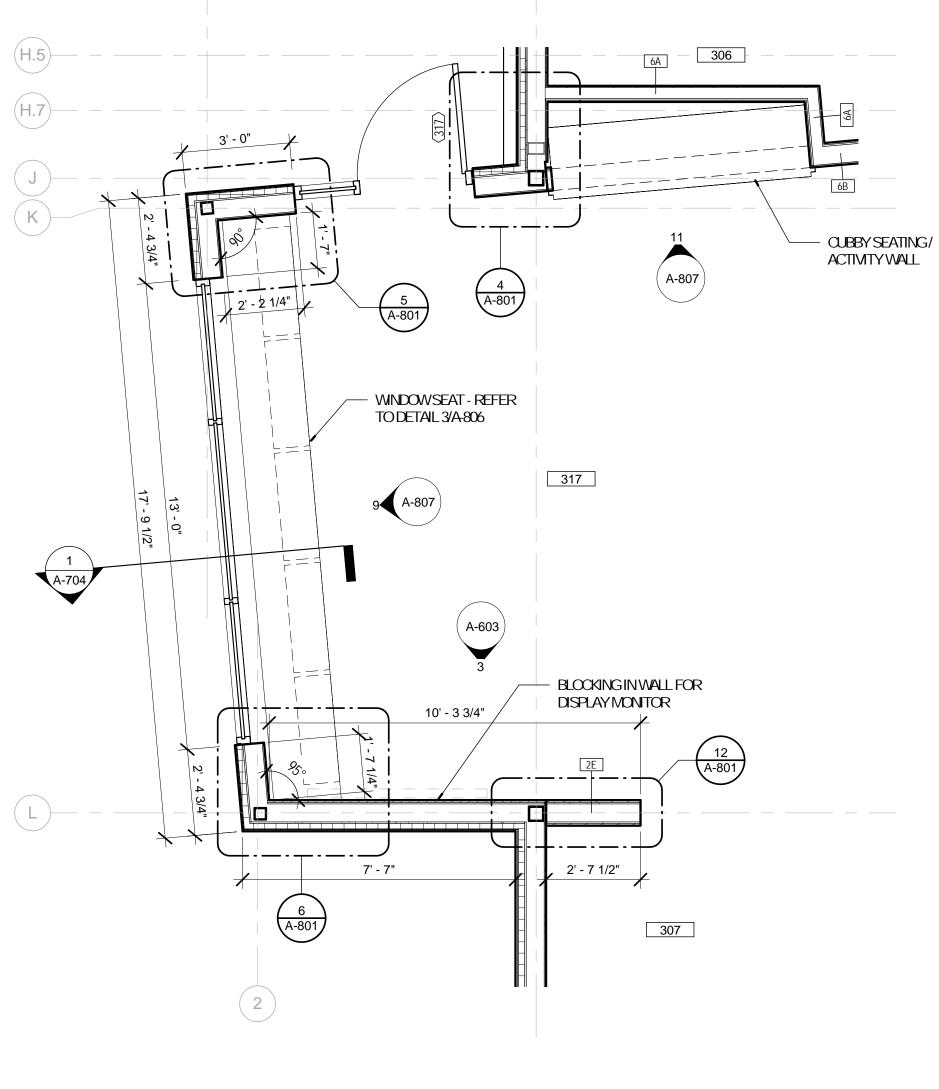
SHEETTITLE: ENLARGED FLOOR PLANS



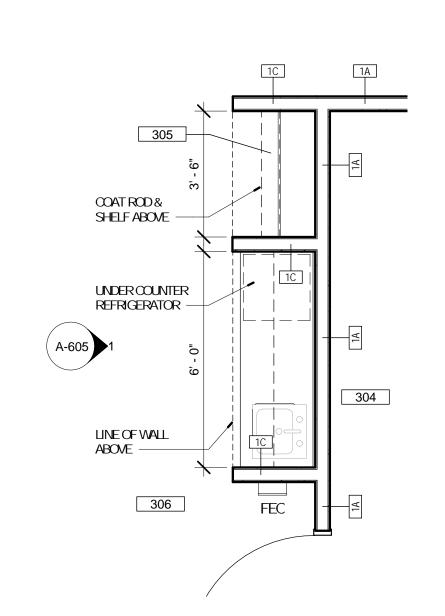




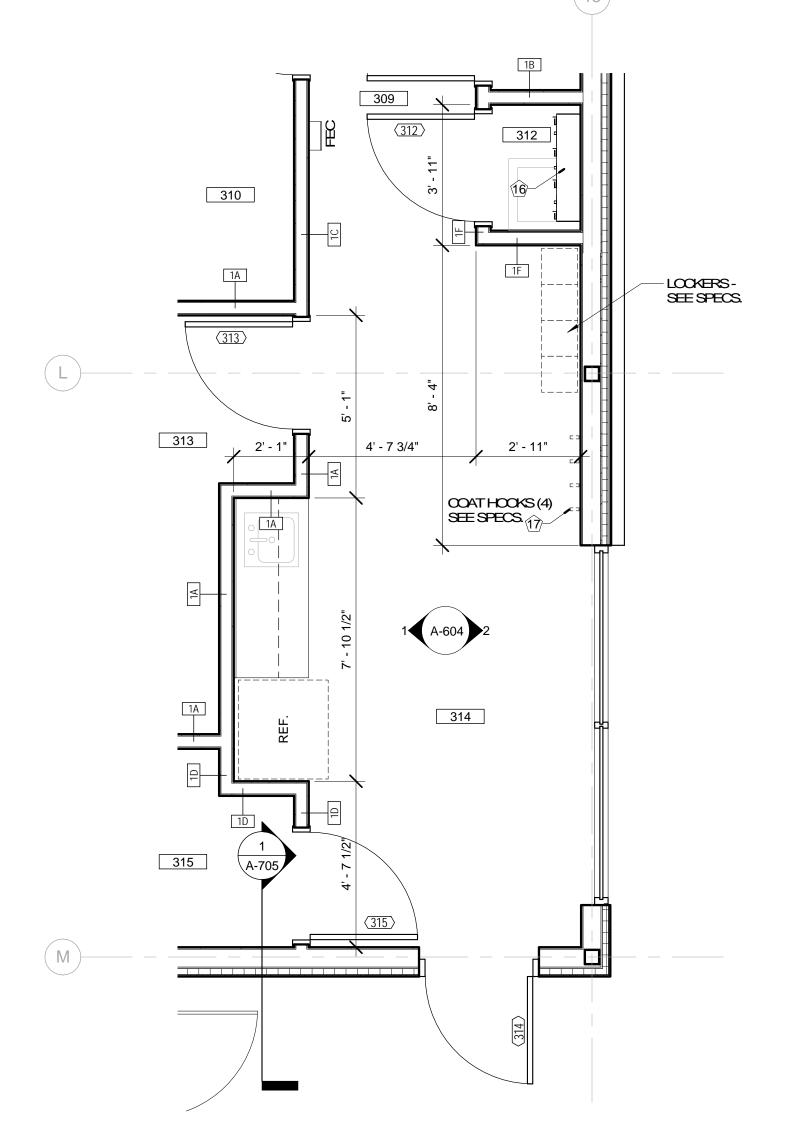
4 ENLARGED PLAN @ TEENS
A-302 3/8" = 1'-0"



2 ENLARGED PLAN @ CHILDREN
A-302 3/8" = 1'-0"



5 ENLARGED PLAN @ MEETING ROOM A-302 3/8" = 1'-0"



3 ENLARGED PLAN @ BREAK ROOM
A-302 3/8" = 1'-0"

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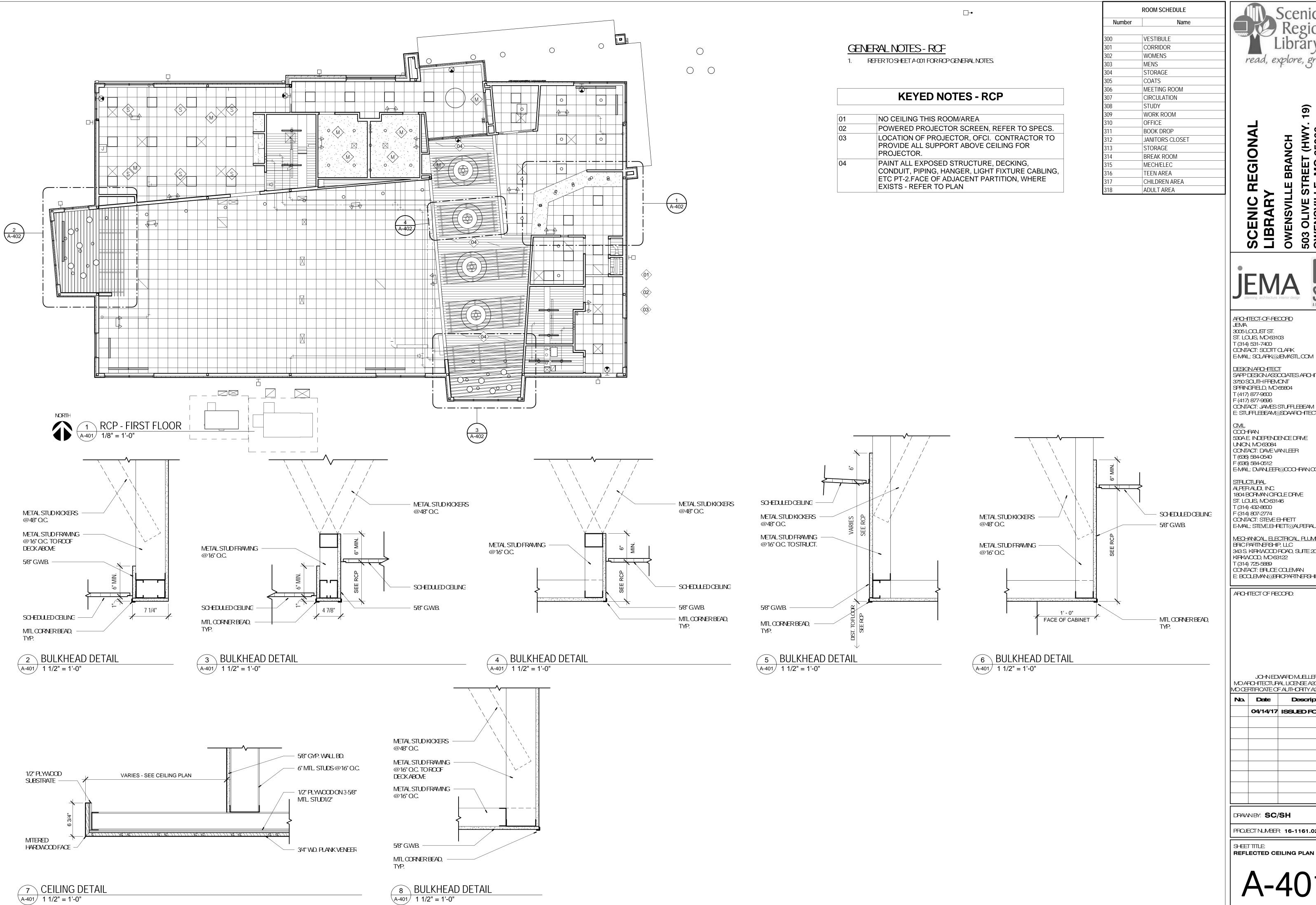
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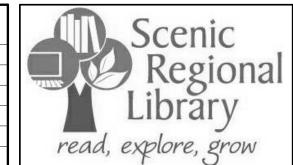
No.	lo. Date Description			
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DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEETTITLE: ENLARGED FLOOR PLANS





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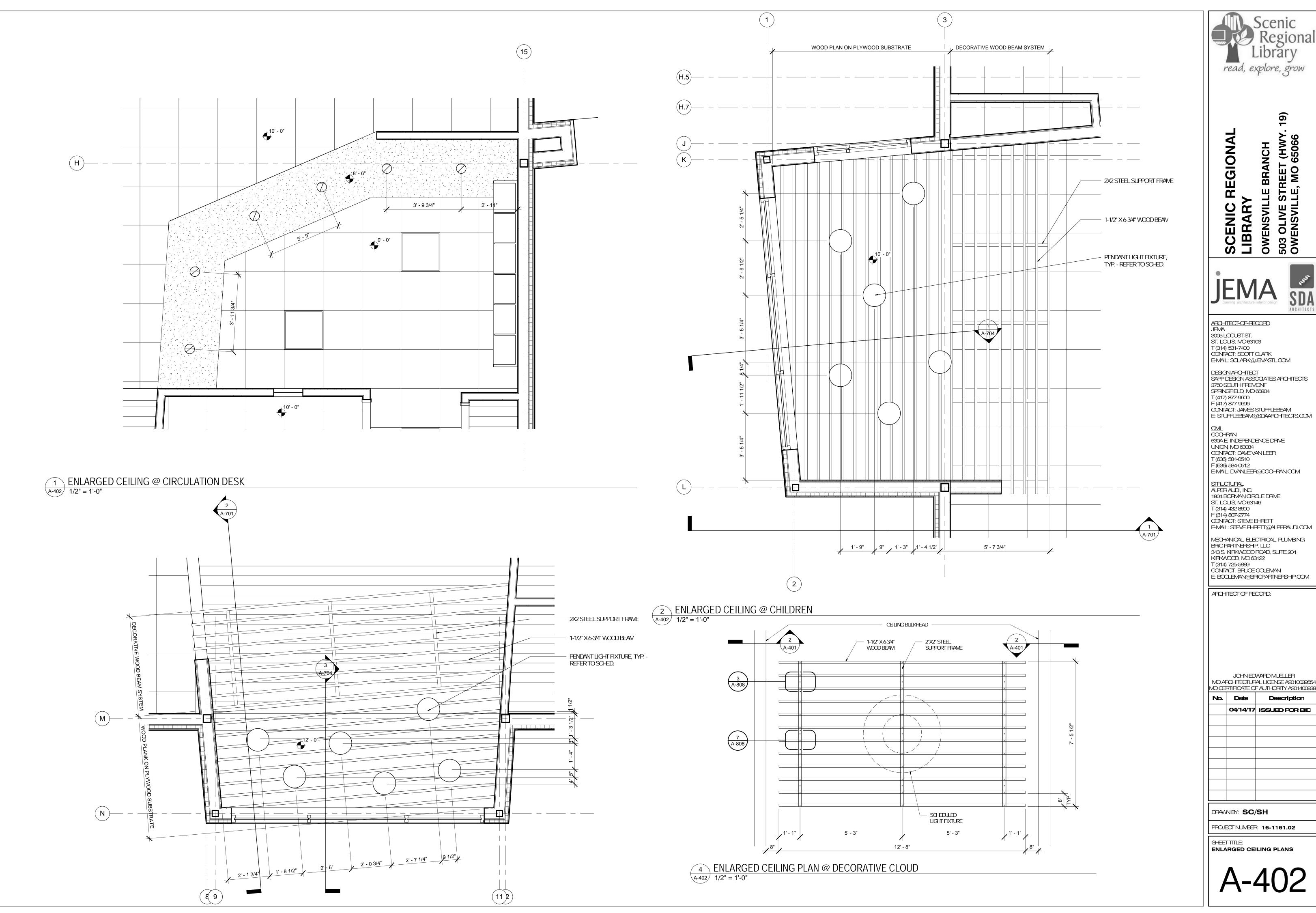
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ı	No.	Date	Description
		04/14/17	ISSUED FOR BID

PROJECT NUMBER: 16-1161.02

ENLARGED CEILING PLANS

# CT-1 CPT-11 CPT-3 318 (CPT-3) CPT-4 02 307 CPT-1 CONC-1 CPT-10 CPT-12 CONC-1

GENERAL NOTES - FINISH PLAN

FINISH PLAN GENERAL NOTE

	KEYED NOTES - FINISH PLAN
Keynote Number	Description
01	PROVIDE CORNER GUARD THIS LOCATION, SEE SPECS.
02	COMBINATION OF CPT-3 AND CPT-4 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT.
03	COMBINATION OF CPT-5, CPT-6, CPT-7 AND CPT-8 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT.
04	COMBINATION OF CPT-5, CPT-10 AND CPT-12 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT.

	ROOM FINISH SCHEDULE								
		FLOORII	NG		WAL	LS			
NUMBER	NAME	FLOOR FINISH	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING FINISH	COMMENTS
300	VESTIBULE	CPT-11	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
301	CORRIDOR	CF 1-11	TB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
302	WOMENS	CT-1	TB-1	PT-1	PT-1	PT-1	PT-1/WT-	GB-1	NO TB-1 ON WET WALL, REF ELEVATION
303	MENS	CT-1	TB-1	PT-1	PT-1	PT-1/WT-1	PT-1	GB-1	NO TB-1 ON WET WALL, REF ELEVATION
304	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
305	COATS	CT-1	TB-1	PT-1	PT-1	PT-1	N/A	GB-1	
306	MEETING ROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1/WG- 1	ACT-1	SOFFIT AT COUNTER TO BE GB-1,WG-1 ON WEST WALL, REFER TO FINISH PLAN
307	CIRCULATION	CPT-1	RB-1	PT-1	PT-1/WG-2	PT-1	PT-1	ACT-1	WG-2 ON SOUTH WALL, REFER TO FINISH PLAN
308	STUDY	CPT-3/CPT-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
309	WORK ROOM	CPT-1	RB-1	PT-1	PT-1	PT-8	PT-1	ACT-1	
310	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
311	BOOK DROP	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
312	JANITORS CLOSET	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
313	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
314	BREAK ROOM	RT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
315	MECH/ELEC	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A	
316	TEEN AREA	CPT-5,10,12	RB-1	N/A	PT-4	PT-4	WD-2/PT- 1	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING
317	CHILDREN AREA	CPT-4	RB-1	PT-5	WD-2/PT-1	N/A	PT-5	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING
318	ADULT AREA	CPT-3/CPT-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	

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No. Date Description 04/14/17 ISSUED FOR BID

**ROOM SCHEDULE** Name MEETING ROOM CIRCULATION DRAWNBY: SC/SH

Number

VESTIBULE

CORRIDOR

WOMENS

STORAGE

COATS

STUDY

OFFICE

WORK ROOM

BOOK DROP

BREAK ROOM

MECH/ELEC

TEEN AREA

ADULT AREA

STORAGE

MENS

PROJECT NUMBER: 16-1161.02

SHEET TITLE: FINISH PLAN/LEGEND

## FINISH LEGENC NOTE; NOT ALL FINISHES LISTED BELOWAPPLY TO THIS BRANCH, REFER TO DRAWINGS FOR ALL FINISH LOCATIONS.

(CPT-11)

(CPT-12)

(CPT-13)

CT-1

CPT-1	DESC: MODULAR CARPET TILE (18X3) MNF: TANDUS CENTIVA STYLE: EVANESCE 04617 COLOR SPACE GREY 73702 INSTALLATION: HERRINGBONE SIZE: 18" X 36"
CPT-2	DESC: MODULAR CARPETTILE (24X2)

1 FINISH PLAN

A-501 1/8" = 1'-0"

MNF: TANDUS CENTIVA STYLE: EVANESCE 04617 COLOR: SPACE GREY 73702 INSTALLATION: VERTICAL ASHLAR SIZE: 24" X 24"

(CPT-3) DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA 3A STYLE: EVANESCE 04617 COLOR OPEN OCEAN 73706 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

(CPT-4) DESC: MODULAR CARPET TILE (24X24) MNF: TANDUS CENTIVA 3B STYLE: ROOK SOLID II COLOR BLUE GRANITE 20421 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

(CPT-5) DESC: MODULAR CARPET TILE (24X24) MNF: SHAWCONTRACT GROUF STYLE: MEW COLOR GAZE 78530 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

(CPT-6) DESC: MODULAR CARPET TILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: COLOR FORV COLOR IMAGINE 81375 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

(CPT-7) DESC: MODULAR CARPET TILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: MEW COLOR: OVERLOOK 78436 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

(CPT-8) DESC: MODULAR CARPET TILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: MEW COLOR GLIMPSE 78855 INSTALLATION: 1/4 TURN

SIZE: 24" X 24"

(CPT-9) DESC: MODULAR CARPETTILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: COLOR FORV COLOR PUZZLE 81991 INSTALLATION: 1/4 TURN

SIZE: 24" X 24" (CPT-10) DESC: MODULAR CARPET TILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: MEW COLOR: SPACE 78500

INSTALLATION: 1/4 TURN SIZE: 24" X 24" DESC: MODULAR CARPETTILE (24X24) MNF: TANDUS CENTIVA STYLE: ABRESIVE ACTION 02578

COLOR CHARCOAL 19100 INSTALLATION: MONOLITHIC SIZE: 24" X 24" DESC: MODULAR CARPETTILE (24X24) MNF: SHAWCONTRACT GROUP STYLE: MEW

COLOR LANDSCAPE 78675 INSTALLATION: 1/4 TURN SIZE: 24" X 24" DESC: MODULAR CARPETTILE (24X24) MNF: SHAWCONTRACT GROUF

STYLE: COLOR FORV COLOR: EMBER 81870 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

DESC: MODULAR CARPETTILE (24X24) MNF: SHAWCONTRACT GROUF STYLE: MEW COLOR: PLACE 78210 INSTALLATION: 1/4 TURN SIZE: 24" X 24"

DESCRIPTION: 6X24 PORCELAIN TILE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAVOSA COLORSILVER SIZE: 6" X 24" INSTALLATION: 1/3 OFFSET GROUT: MAPEI 02 PEWTER OR LATTCRETE 90 LIGHT PEWTER DESCRIPTION: SEALED CONCRETE

DESCRIPTION: LUXURY VINYL TILE MNF: SHAWHARD SURFACE STYLE: GRAIN+PIGVENT COLOR: GREEN 65326 LOCATION: CIRCULATION DESK FRONT

COLOR CLEARMATTE FINISH

STYLE: GRAIN+PIGVENT COLOR: BONE 65515 LOCATION: BREAKROOV DESCRIPTION: 3X24 PORCELAIN TILE BASE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAVOSA COLOR:SILVER SIZE: 3" X 24" GROUT: MAPEI 02 PEWITER ORLATICRETE 90 LIGHT PEWTER. DESCRIPTION: 4" VINML BASE MNF: JOHNSONITE STYLE: 4" STRAIGHT BASE COLOR: 63 BURNT UMBER DESCRIPTION: CHILDREN'S CUSHON MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61346, COLOR: CHILLI #7

RT-2 DESCRIPTION: LUXURY VINYL TILE

MNF: SHAWHARD SURFACE

(FB-1B) DESCRIPTION: CHILDREN'S CUSHON MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61345, COLOR: PUMPKIN#6 DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61349, COLOR: LIME #10

(FB-1D) DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61340, COLOR: SEAGLASS#1 (FB-1E) DESCRIPTION: CHILDREN'S CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61352, COLOR: OCEAN#13

DESCRIPTION: WALL TILE MNF: ISC SURFACES ANATOLIA TILE SERIES: SOHO SIZE: 4" X 16" COLOR TAUPE GLOSSY GROUT: MAPEI 02 PEWITER OR LATTICRETE 90 LIGHT PEWTER. LOCATION: RESTROOMWET WALLS

DESCRIPTION: 6X24 PORCELAIN TILE MNF: TRENDS IN TILE, EURO COLLECTION STYLE: ERAMOSA COLORSILVER SIZE: 6" X 24" INSTALLATION: SEE DETAILS GROUT: MAPEL 02 PEWITER OR LATTICRETE 90 LIGHT PEWTER DESCRIPTION: WALL TILE - BULLNOSE

MNF: ISC SURFACES ANATOLIA TILE SERIES: SOHO SIZE: 4" X8" COLOR TAUPE GLOSSY GROUT: MAPEL 02 PEWTER OR LATICRETE 90 LIGHT PEWTER. LOCATION: RESTROOMWET WALLS @ PERIMETER **EDGE** 

PT-7 MNF: SHERWIN-WILLIAMS DESCRIPTION: 1" IGUNIT, LOW-EINSUL GLASS MNF: PPG, STYLE: SOLARBAN 60 COLOR OPTIGRAY + CLEAR GL-2 DESCRIPTION: 1/4" CLEAR TEMPERED GLASS

GL-3 DESCRIPTION: 1/2" CLEAR TEMPERED GLASS (GL-4) DESCRIPTION: 1" IGUNIT, SPANDREL GLASS MNF: PPG, STYLE: SOLARBAN 60 + OPACI-COAT-300 COLOR CLEAR+CLEAR GLASS, MEDIUM GRAY

SURFACE: MEDIUMGRAY, SURFACE #3 (ACT-1) DISC: 2X2ACOUSTICAL CEILING TILE MNF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR #1942 SIZE: 24" X24" COLOR WHITE

GRID9/16" GB-1 DISC: 1/2" GYPSUMBOARD COLOR PT-2

SPECIES: REDOAK CUT: PLAIN-SLICED VENEER MATCH: SLIF-MATCHED FINISH: MATCH VT INDUSTRIES CHOCOLATE, CH15 LOOCATION: ALL INTERIOR DOORS WD-2

SPECIES: WHITE MAPLE CUT: PLAIN-SLICED VENEER FINISH: CLEAR SATIN LOOCATION: CEILING AND WALLS PT-1 MNF: SHERWIN-WILLIAMS

COLOR TBD LOCATION: GENERAL WALL COLOR PT-2 MNF: SHERWIN-WILLIAMS COLOR TBD

LOCATION: GEN. GYP. BD. CLG. COLOR PT-3 MNF: SHERWIN-WILLIAMS COLOR TBD

LOCATION: DOOR FRAME COLOR PT-4 MNF: SHERWIN-WILLIAMS COLOR TBD LOCATION: ACCENT PAINT TEENS PT-5 MNF: SHERWIN-WILLIAMS

COLOR TBC

LOCATION: ACCENT PAINT CHILDRENS PT-6 MNF: SHERWIN-WILLIAMS COLOR TBD LOCATION: ACCENT PAINT COFFEE

LOCATION: ACCENT PAINT CIRCULATION MNF: SHERWIN-WILLIAMS COLOR TBD LOCATION: ACCENT PAINT WORK ROOV PT-9 MNF: SHERWIN-WILLIAMS COLOR TBD LOCATION: METAL DOOR FRAMES DESCRIPTION: 4" VINYL BASE MNF: JOHNSONITE SIZE: 4" HIGH STRAIGHT BASE COLOR 63 BURNT UMBER

MNF: FORMCA COLOR 5886-43 SORREL CHERRY FINISH; ARTISAN LOCATION: CIRCULATION DESK/ COFFEE, FIREPLACE VERTICAL SURFACES.

COLOR TBD

PL-2 MNF: LAMIN-ART COLOR: 3057-VT FINISH: VELVA-TEX LOCATION: WORK RM/MTG, RM/BREAK RM VERTICAL SURFACES.

(PL-3) MNF: FORMICA COLOR 961-58 FOG FINISH: MATTE LOCATION: WORK RM/BREAK RM TOPS

(PL-4) MNF: FORMCA COLOR M2178 BRUSHED STAINLESS STEEL LOCATION: CIRCULATION DESKAND FIREPLACE BASE

COLOR STOP RED 839-58 FINISH: MATTE FINISH ( PL-6 ) MNF: FORMCA COLOR VIBRANT GREEN 6901-58 FINISH: MATTE FINISH

PL-5 MNF: FORMCA

(PL-7) MNF: FORMCA COLOR SPECTRUMBLUE 851-AN FINISH: INFINITI FINISH

SS-1 MNF: AVONITE COLOR: NORDIC F1-9119 LOCATION: CIRCULATION COUNTER INSET, MTG RM/COFFEE TOPS

(HW-1) MNF: DOUG MOCKETT & COMPANY, INC. STYLE: DP105/3 SERIES SQUARE PULL COLOR STAINLESS STEEL SIZE: 627/32 X 9/16 SQUARE PULL

DESCRIPTION: WINML WALL GRAPHIC SIZE: SEE PLAN AND ELEVATION

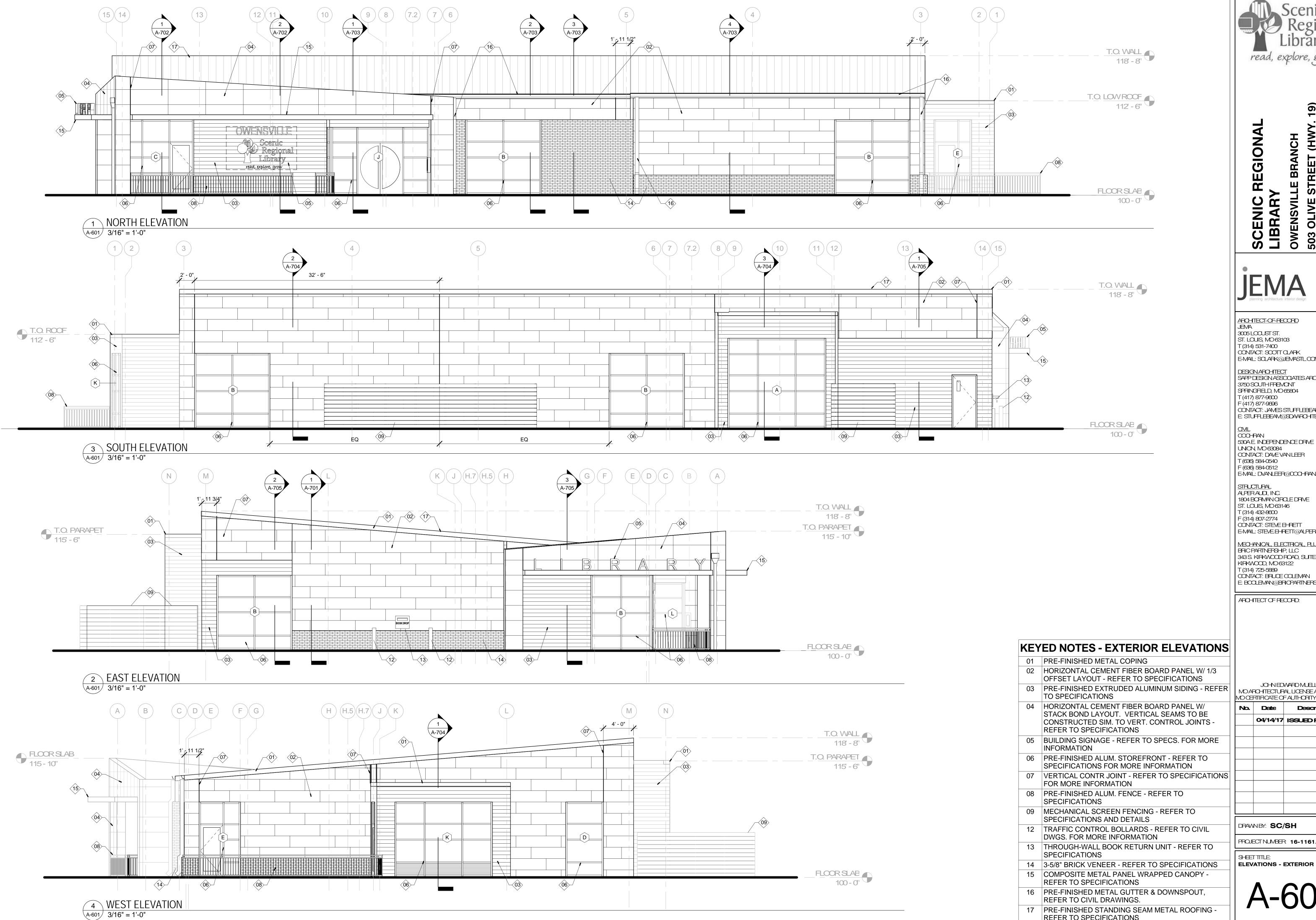
DESCRIPTION: CUSTOM DIGITAL WALL IMAGE MNF: ARC-COV TYPE II VINYL, CUSTOMINAGE TO BE DETERMNED. SIZE: 40'-0" WIDE BY 8-0" TALL, BOT. AT 6'-0" AFF. REP CONTACT: AFTEN ZURLIENE, 314-465-2257 AZURLIENE@ARC-COMCOV

DESCRIPTION: SINGLE MANUAL ROLLER SHADE MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWEAVE 2360 OPENNESS: 10%

DESCRIPTION: SINGLE MANUAL BLACK-OUT SHADE MNF: SWF CONTRACT OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039

DESCRIPTION: DUEL MANUAL BLACK-OUT/FABRIC SHADE MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWEAVE 2360 OPENNESS: 10% OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039

JANITORS CLOSET CHILDREN AREA



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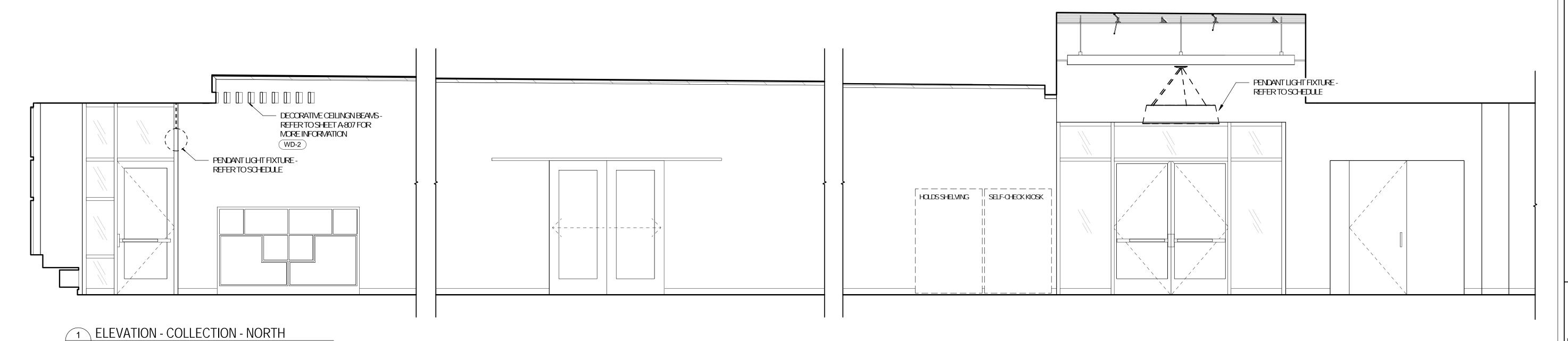
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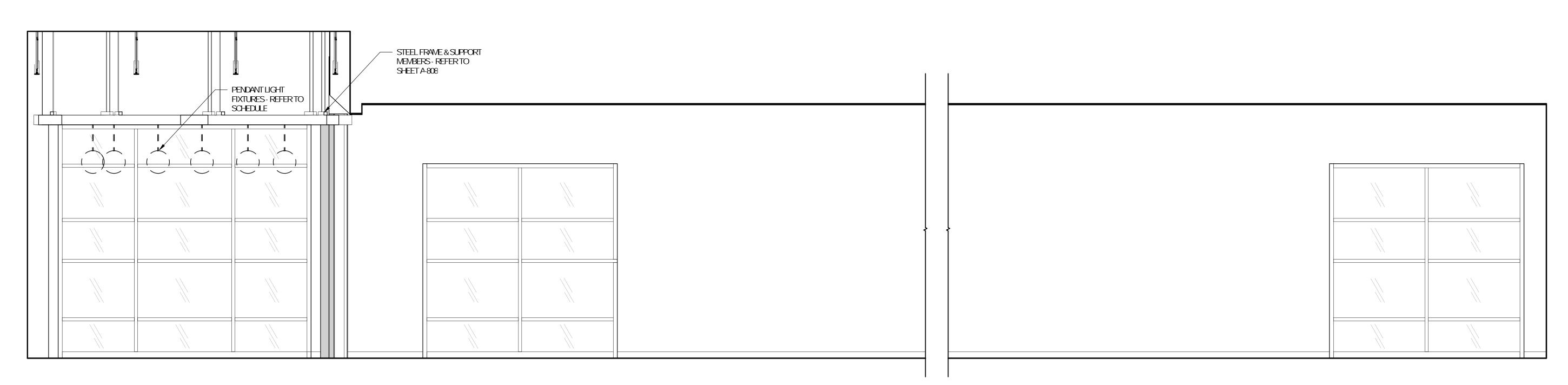
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PROJECT NUMBER: 16-1161.02

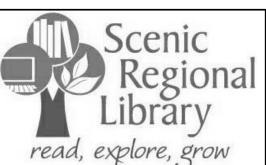
REFER TO SPECIFICATIONS





2 ELEVATION @ TEENS A-602 3/8" = 1'-0"

A-602 3/8" = 1'-0"



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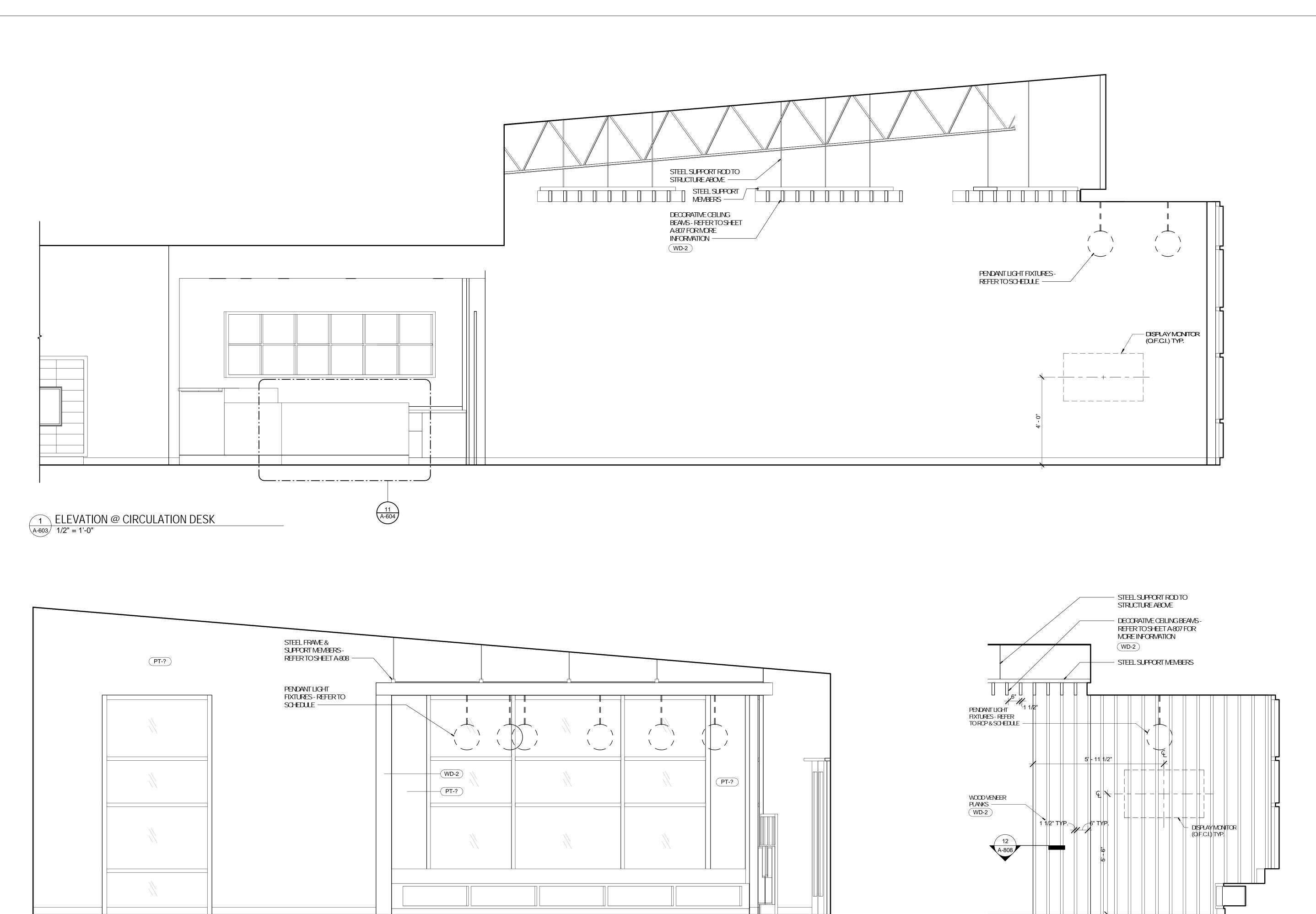
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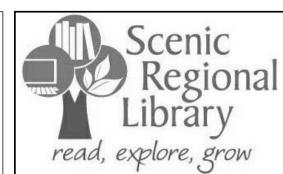
PROJECT NUMBER: 16-1161.02

SHEETTITLE: ELEVATIONS - INTERIOR



2 ELEVATION @ CHILDREN A-603 1/2" = 1'-0"

3 ELEVATION @ CHILDREN
A-603 1/2" = 1'-0"



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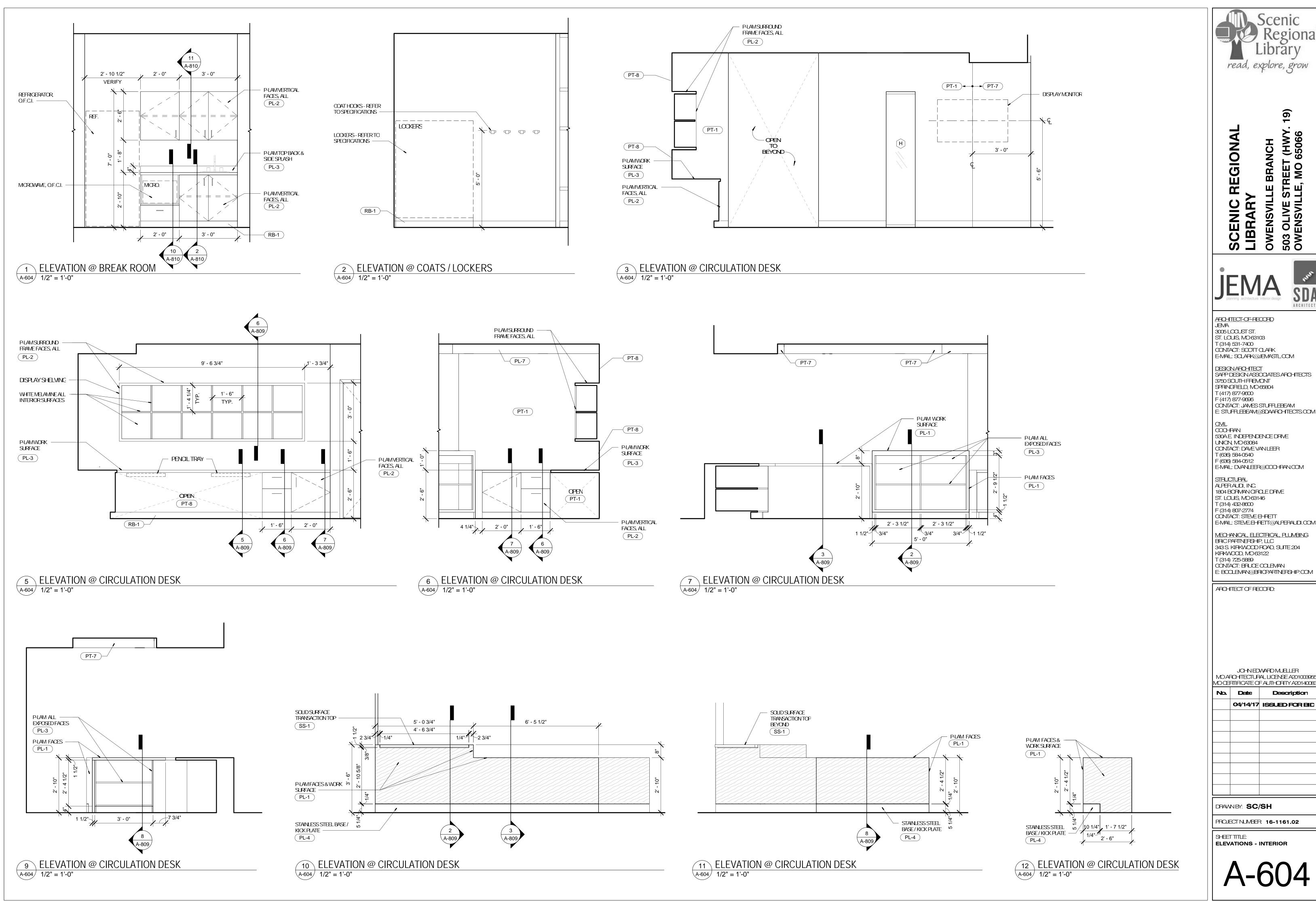
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SHEET TITLE: ELEVATIONS - INTERIOR



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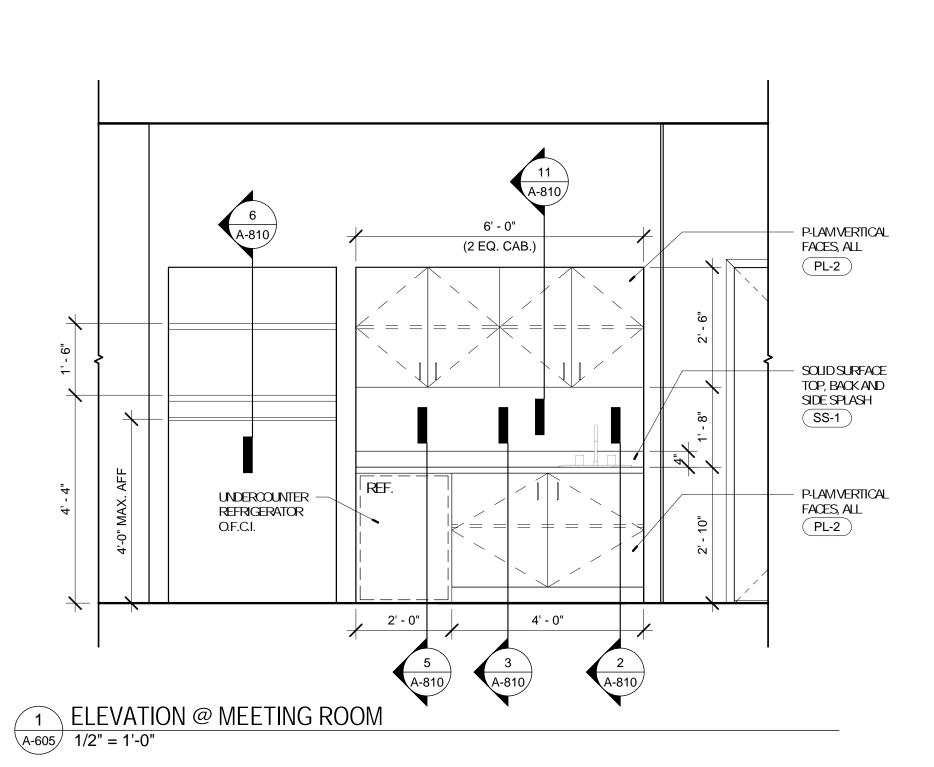
CONTACT: STEVE EL PETT

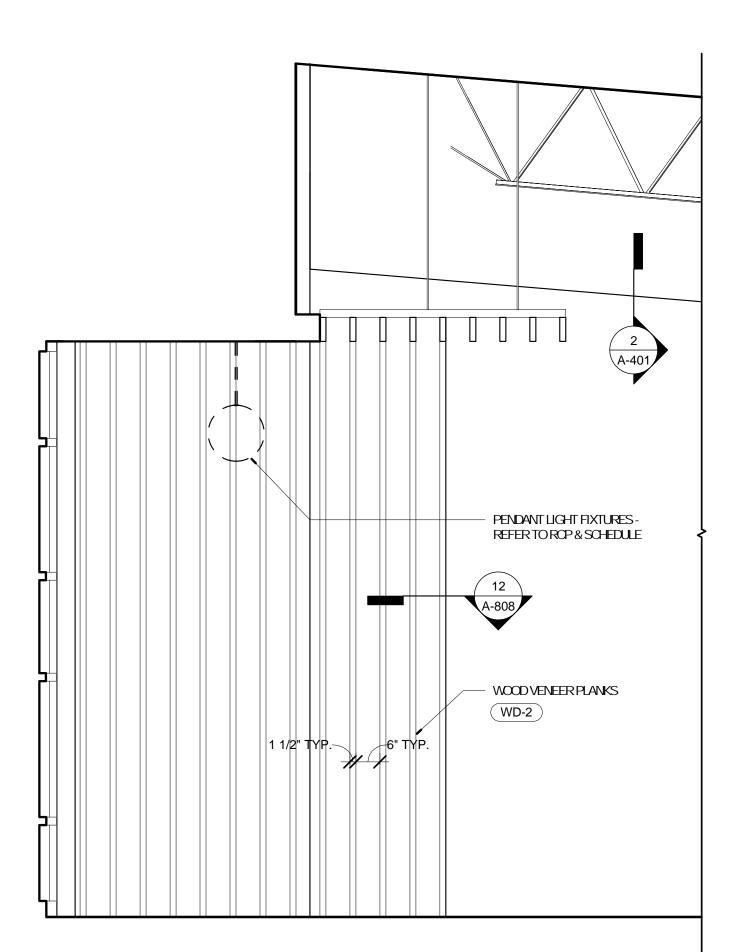
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SHEETTITLE: **ELEVATIONS - INTERIOR** 

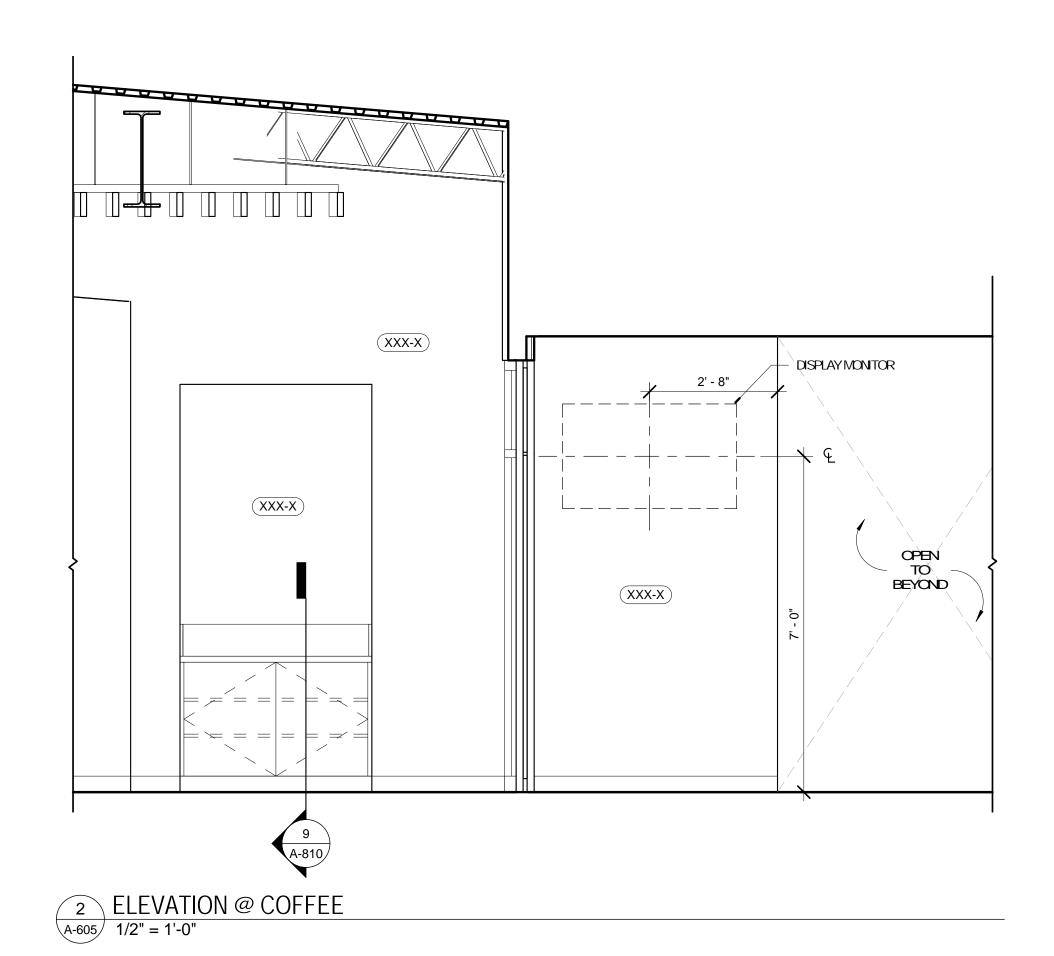
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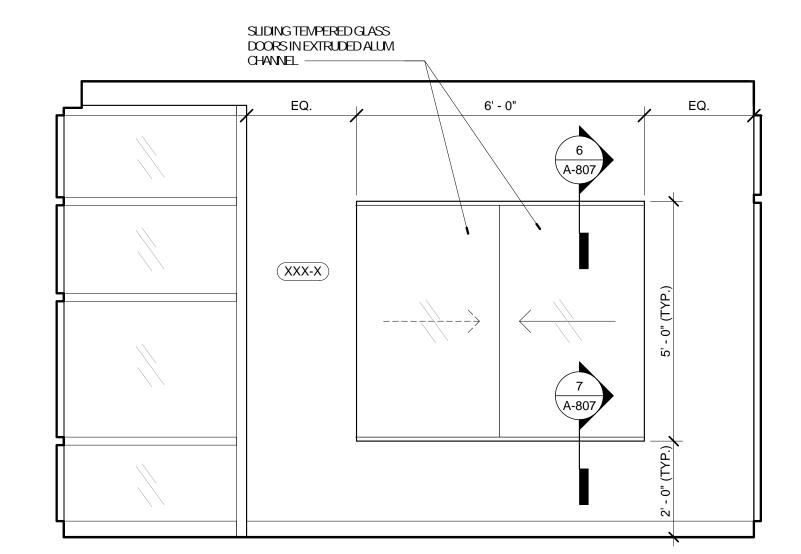
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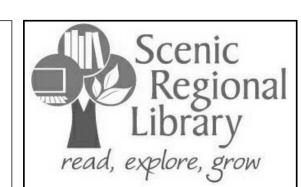


5 ELEVATION @ TEENS A-605 1/2" = 1'-0"





3 ELEVATION @ DISPLAY
A-605 1/2" = 1'-0"



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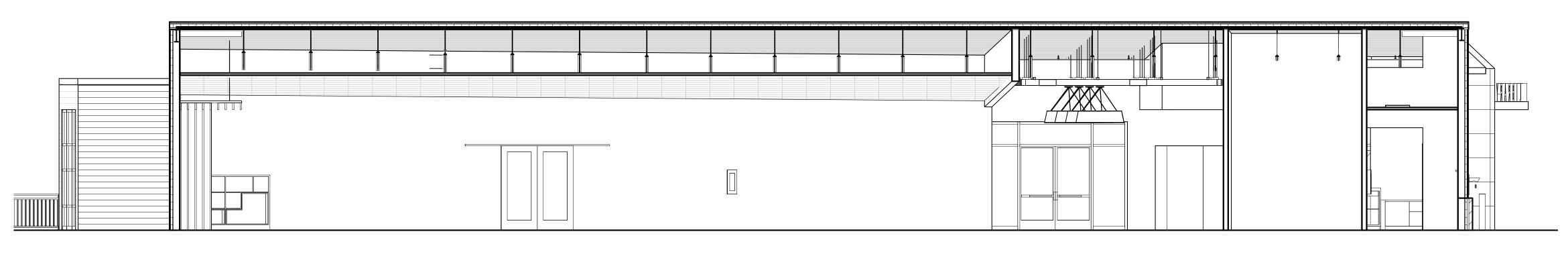
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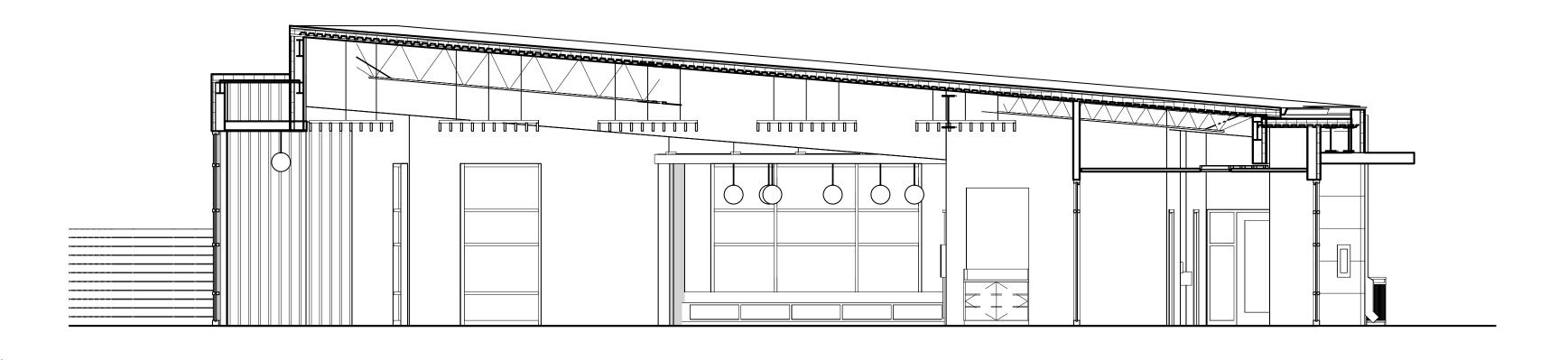
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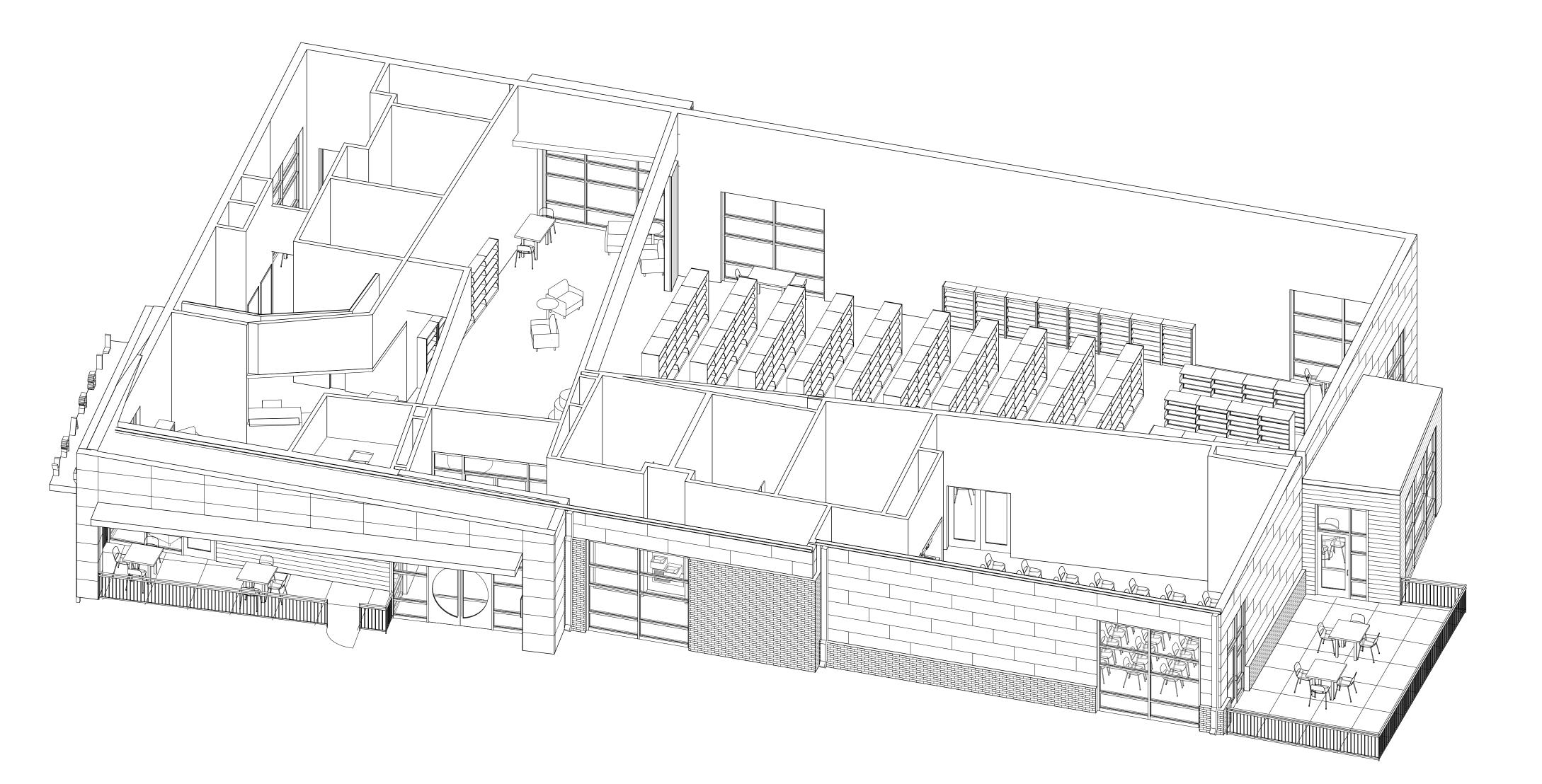
SHEETTITLE:
ELEVATIONS - INTERIOR



1 BUILDING SECTION 3/16" = 1'-0"

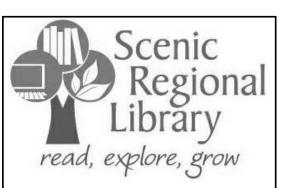


2 BUILDING SECTION A-701 3/16" = 1'-0"



BIRDS EYE SECTION CUT

A-701



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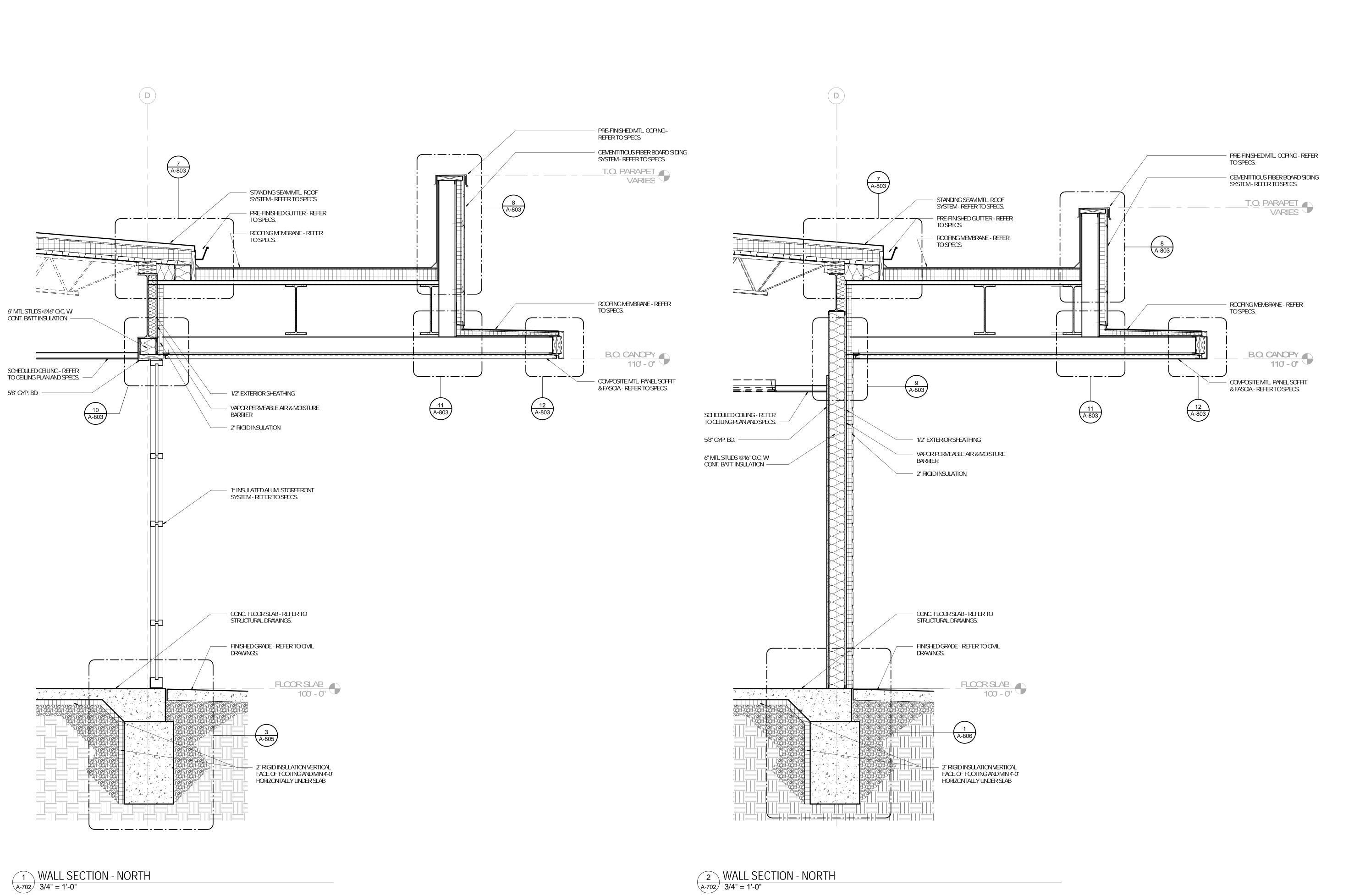
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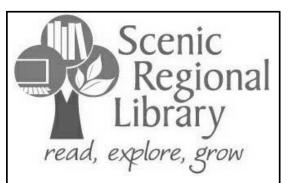
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SHEETTITLE:
BUILDING SECTIONS &
BIRDS-EYE SECTION





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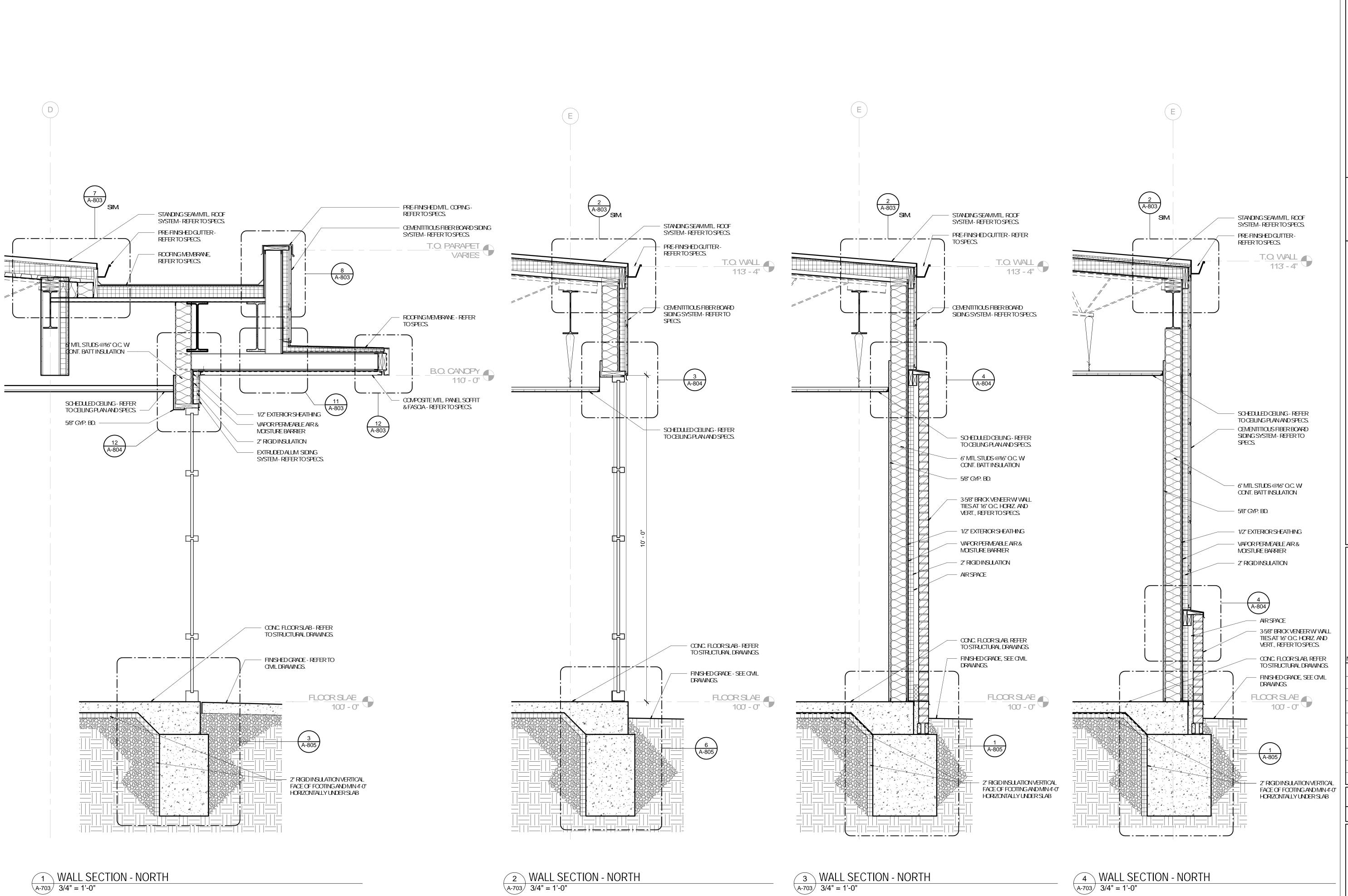
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No.	Date	Description
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SHEETTITLE: SECTIONS - BUILDING





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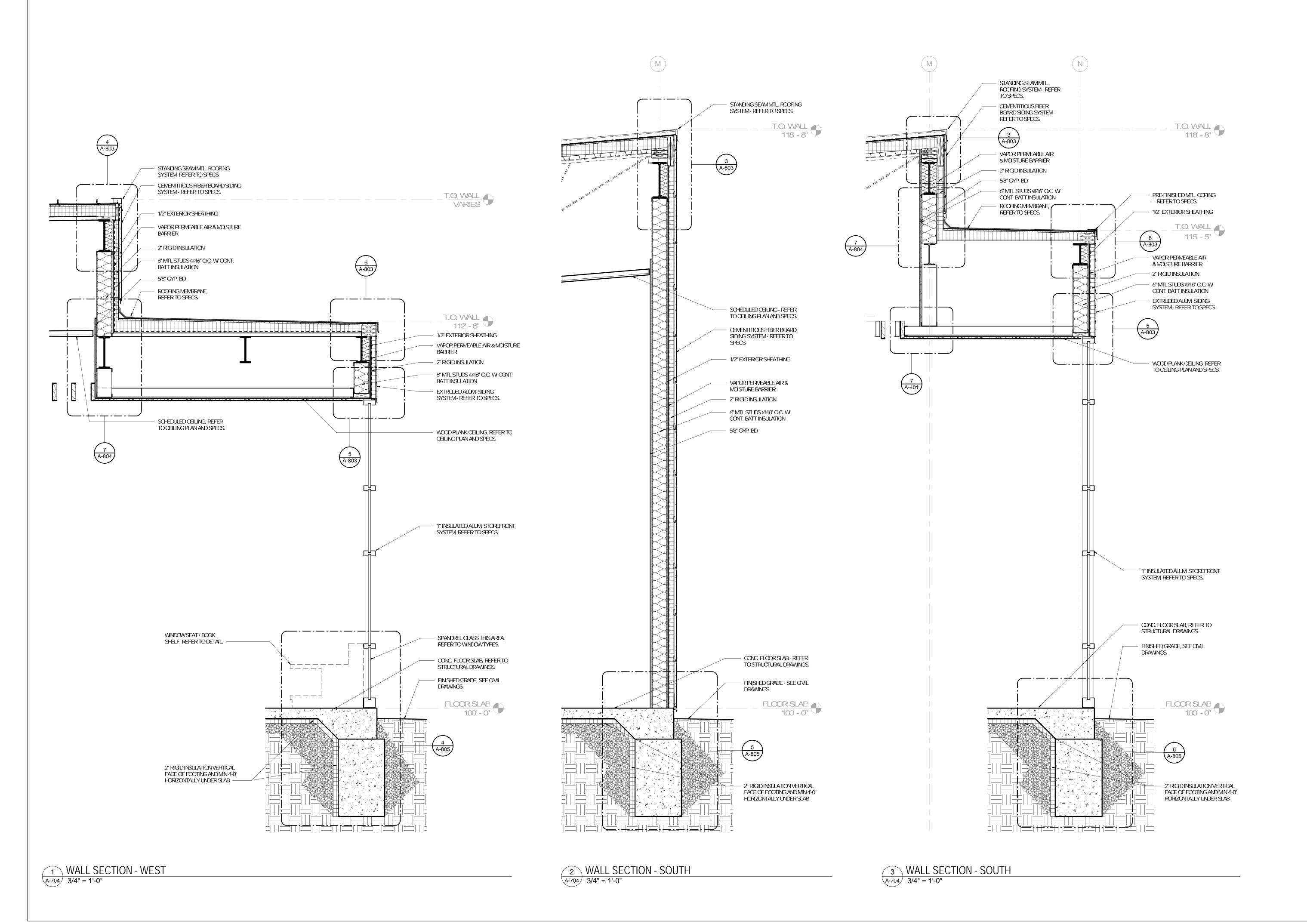
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MO CERTIFICATE OF AUTHORITY A2014008380

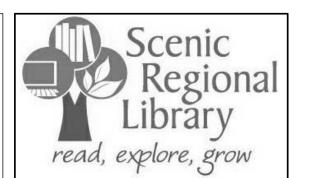
No. Date Description

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SHEETTITLE: SECTIONS - BUILDING





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MO ARCHITECTURAL LICENSE A2010039554

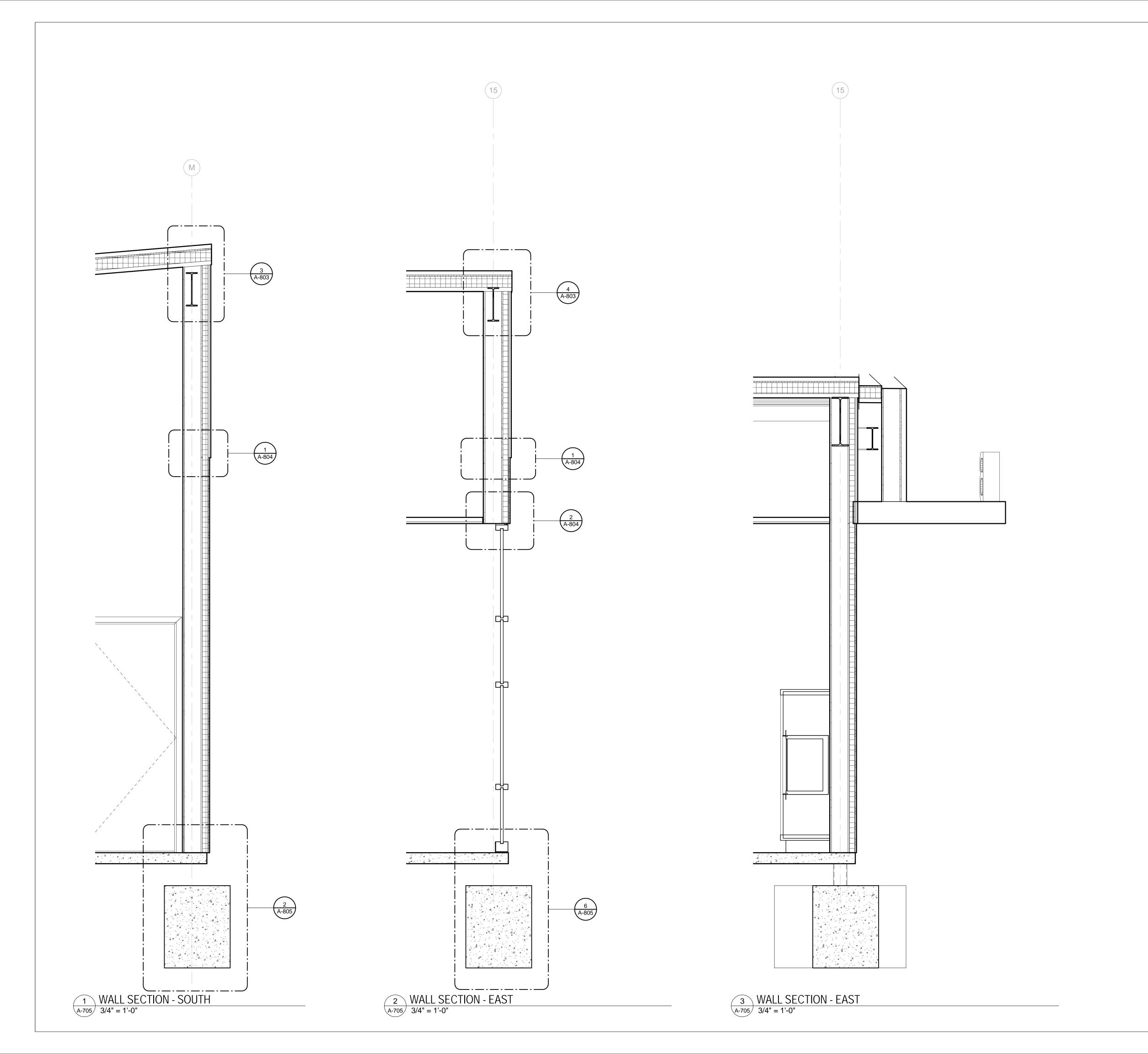
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEET TITLE: SECTIONS - BUILDING







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ARCHITECT OF RECORD.

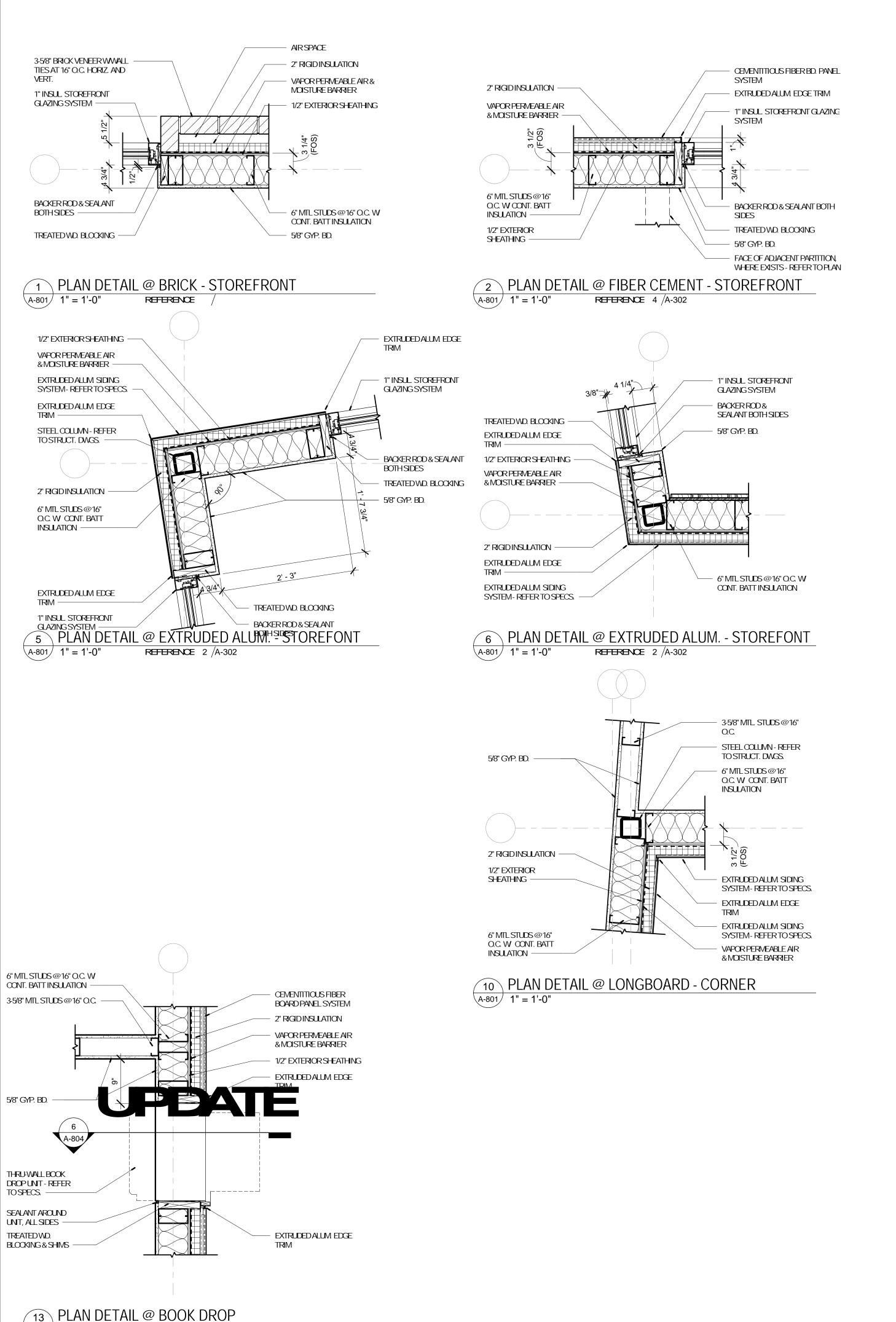
JOHNEDWARD MUELLER
MO ARCHTECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

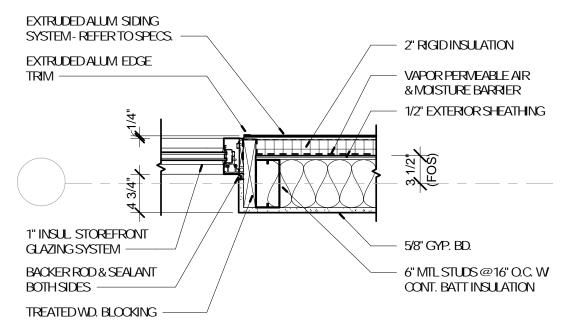
No.	Date	Description
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DRAWNBY: SC/SH

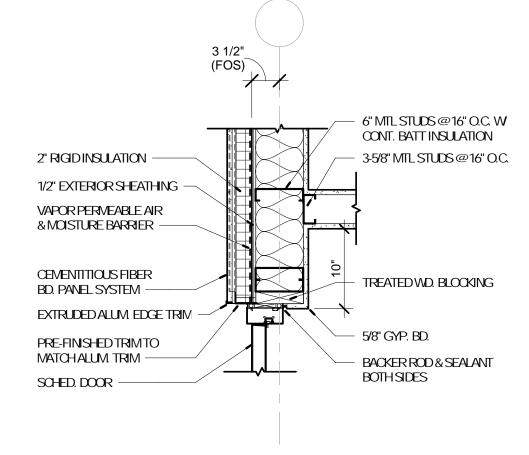
PROJECT NUMBER: 16-1161.02

SHETTITLE: SECTIONS - BUILDING

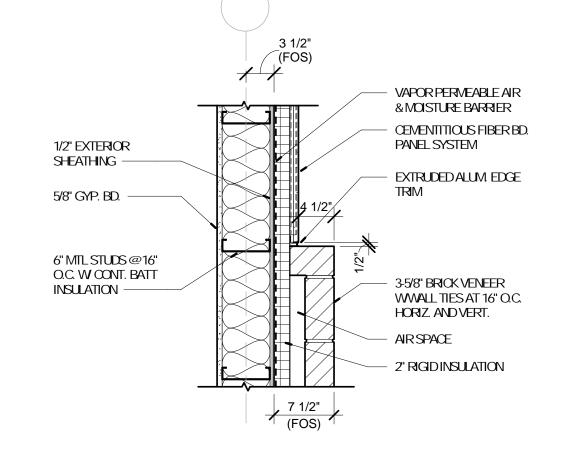




3 PLAN DETAIL @ EXTRUDED ALUM. - STOREFONT
A-801 1" = 1'-0" REFERENCE /

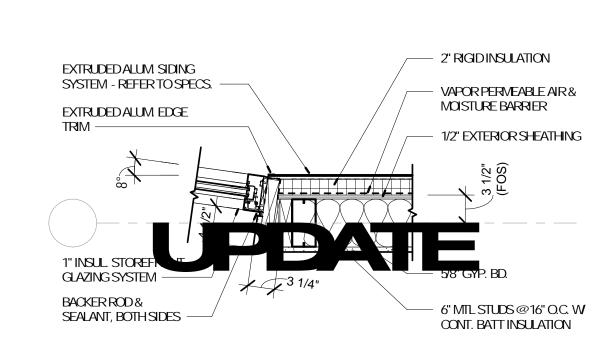


7 PLAN DETAIL @ FIBER CEMENT - DOOR
A-801 1" = 1'-0" REFERENCE /



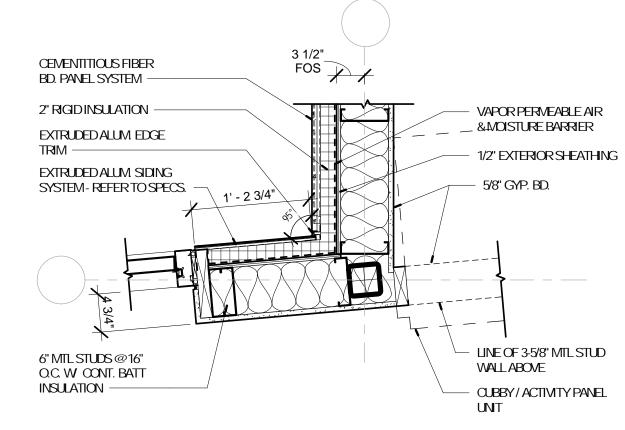
PLAN DETAIL @ FIBER CEMENT - BRICK

A-801 1" = 1'-0" REFERENCE /



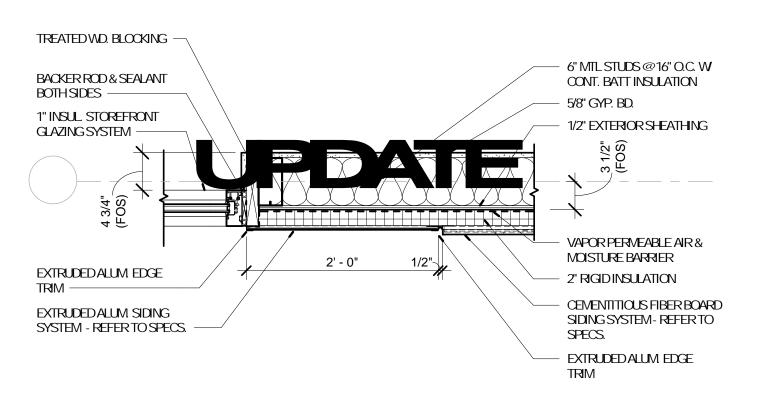
PLAN DETAIL @ EXTRUDED ALUM. - STOREFONT

A-801 1" = 1'-0" REFERENCE /

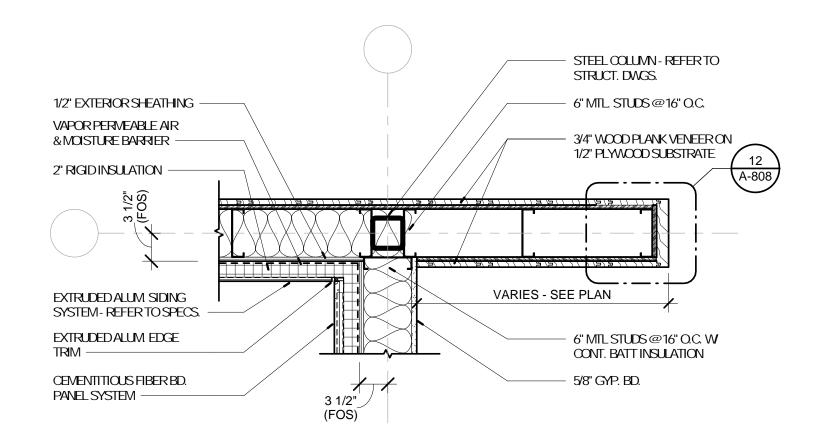


4 PLAN DETAIL @ FIBER CEMENT - LONGBOARD

A-801 1" = 1'-0" REFERENCE 2 /A-302



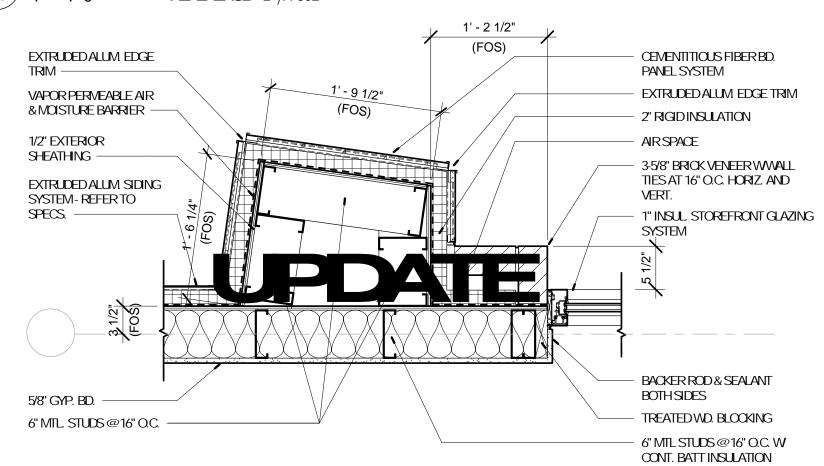
8 PLAN DETAIL @ EXTRUDED ALUM. - STOREFONT



PLAN DETAIL @ LONGBOARD - CORNER / STOREFONT

A-801) 1" = 1'-0"

REFERENCE 2 /A-302



16 PLAN DETAIL @ BRICK - FIBER CEMENT - STOREFRONT

A-801 1" = 1'-0" REFERENCE /



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ARCHTECT OF RECORD:

JOHNEDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH
PROJECT NUMBER: 16-1161.02

SHEETTITLE: DETAILS - PLAN



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ARCHITECT OF RECORD:

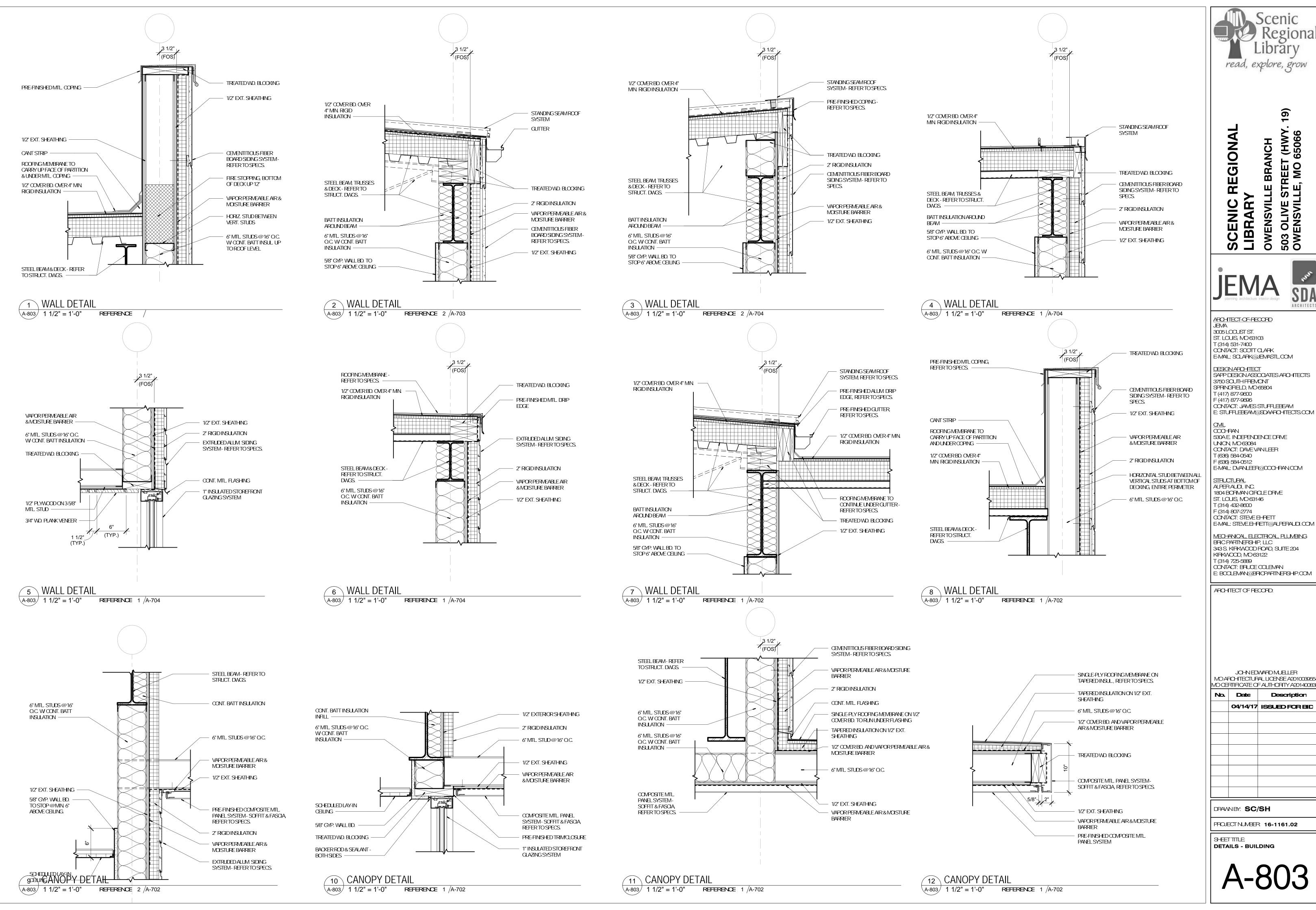
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PROJECT NUMBER: 16-1161.02

SHEETTITLE:
DETAILS - PLAN



E-MAIL: SOLARK@JEVASTLCOM

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530AE INDEPENDENCE DRIVE

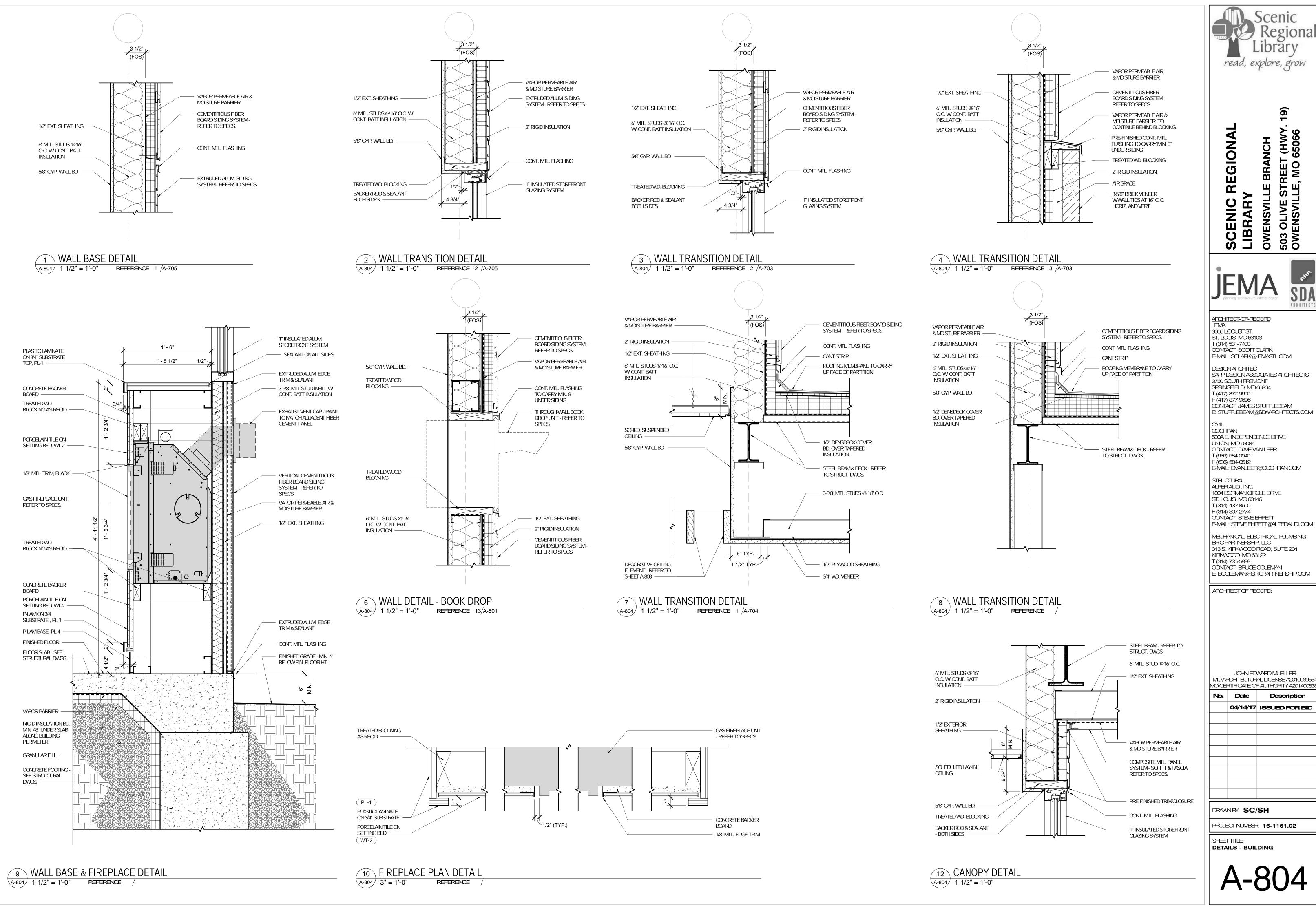
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MECHANICAL, ELECTRICAL, PLUMBING 343 S. KIRKWOOD ROAD, SUITE 204 CONTACT: BRUCE COLEMAN

JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No. Date Description 04/14/17 ISSUED FOR BID



E-MAL: SOLARK@JEMASTLCOM

DESIGNAROHTECT SAPP DESIGNASSOCIATES ARCHITECTS CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM

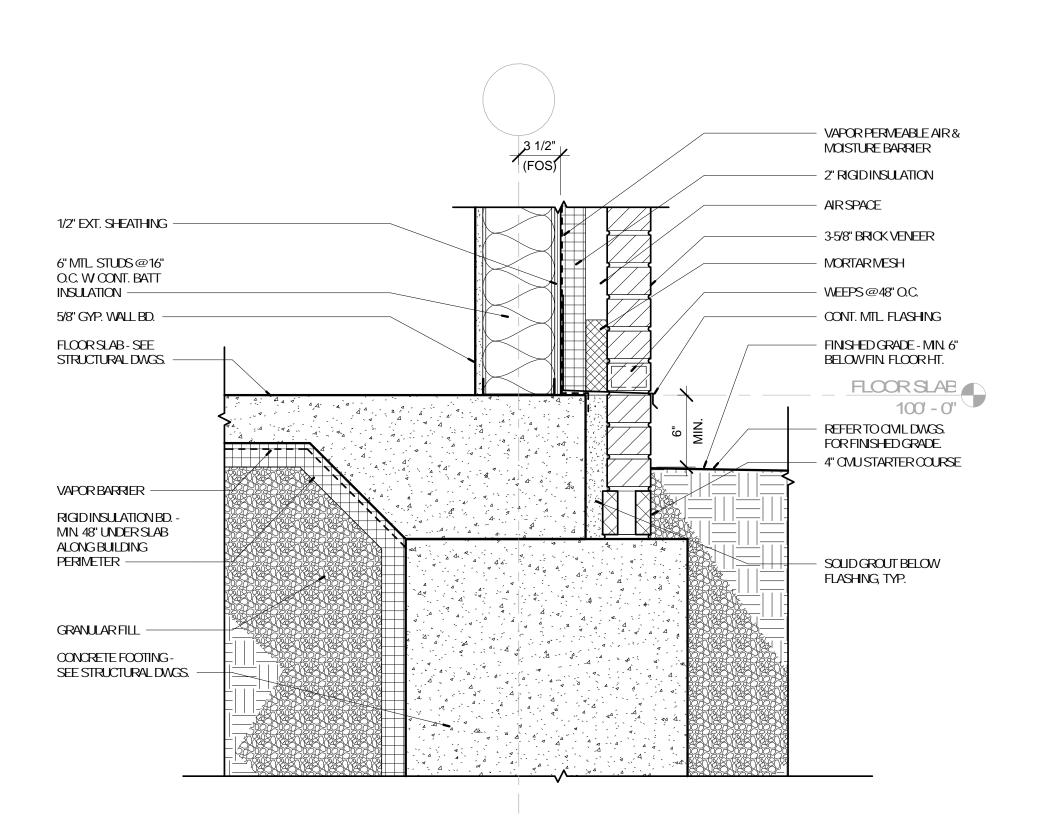
530AE INDEPENDENCE DRIVE CONTACT: DAVE VAN LEER

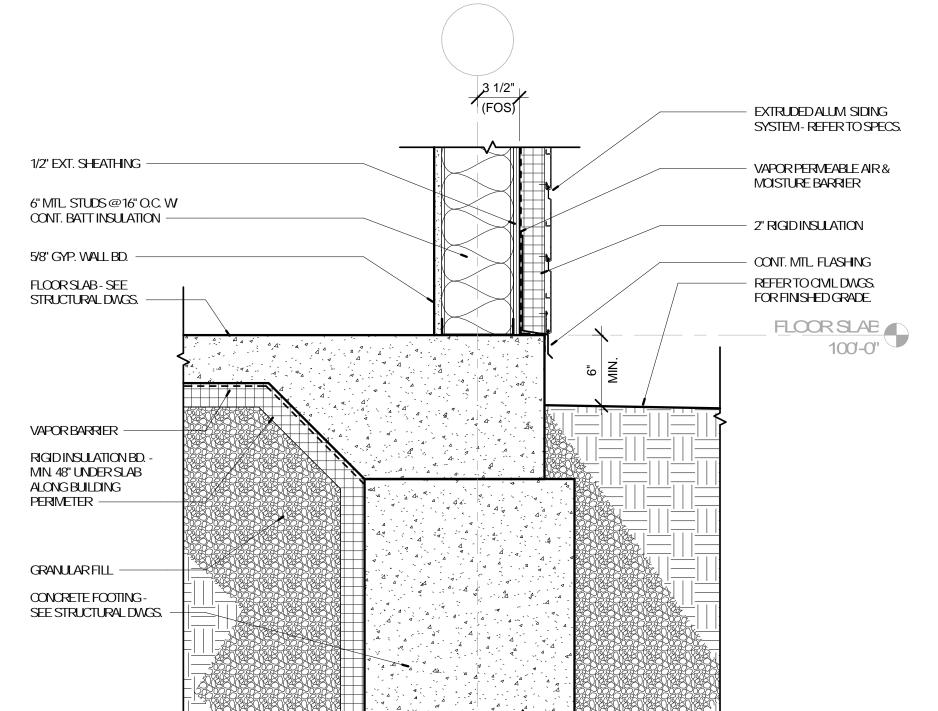
1804 BORMAN GROLE DRIVE

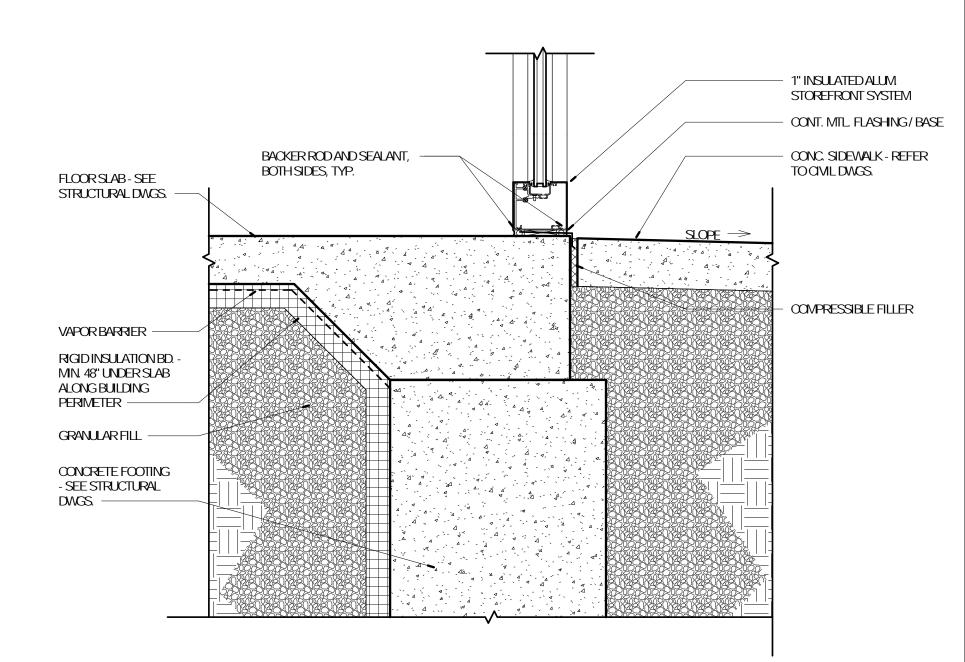
MECHANICAL, ELECTRICAL, PLUMBING 343 S. KIRKWOOD ROAD, SUITE 204

JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

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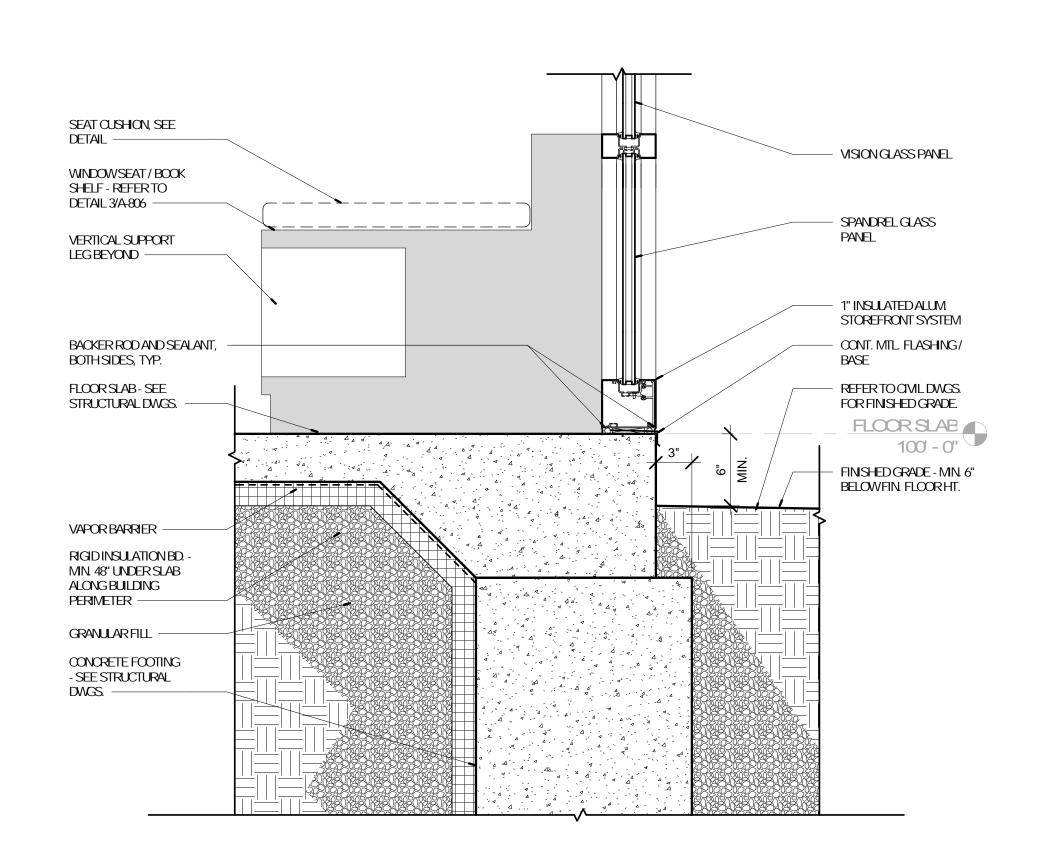
1 WALL BASE DETAIL
A-805 1 1/2" = 1'-0" REFERENCE 3 /A-703

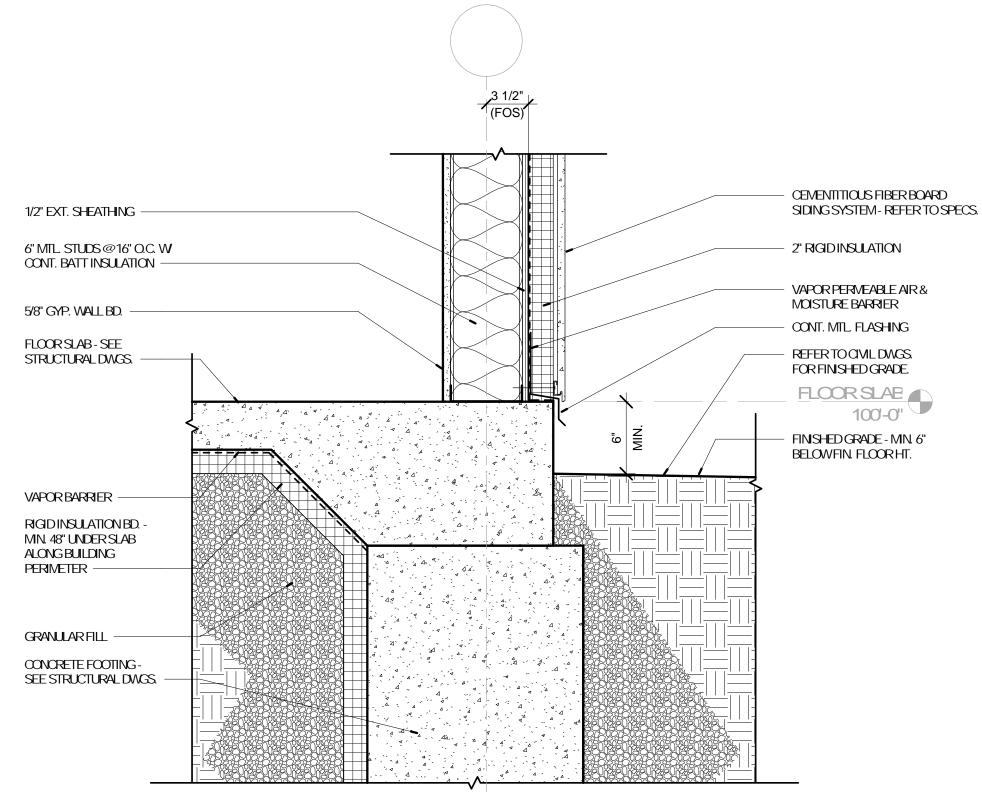
2 WALL BASE DETAIL

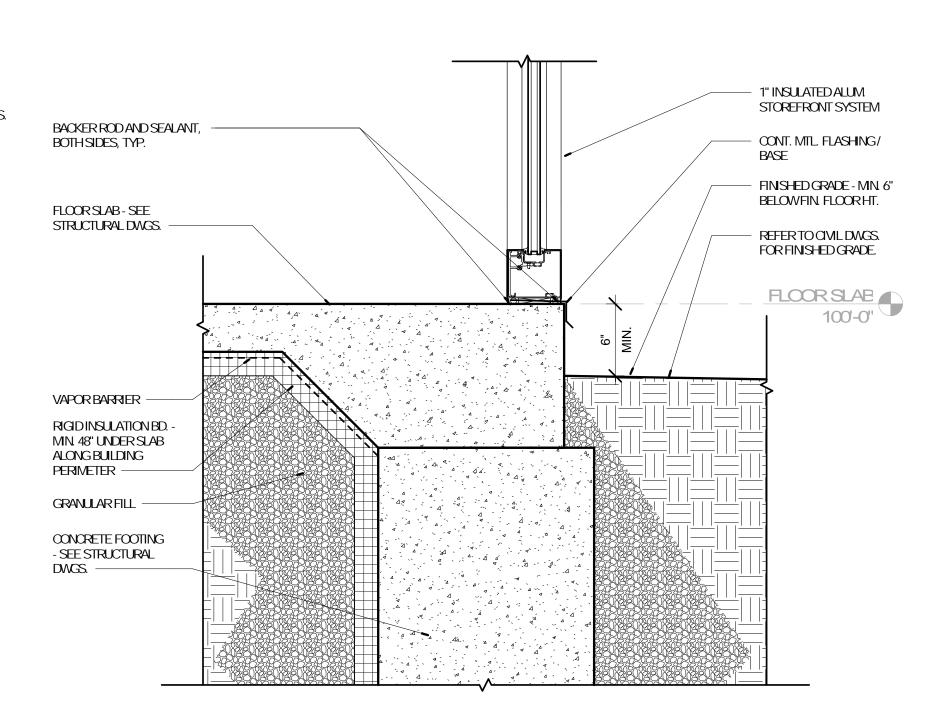
A-805 1 1/2" = 1'-0" REFERENCE 1 /A-705

3 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 1 /A-702







4 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 1 /A-704

5 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 2 /A-704

6 WALL BASE DETAIL

A-805 1 1/2" = 1'-0" REFERENCE 2 /A-703

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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER

MO APOHTECTURAL LICENSE A2010039554

MO CERTIFICATE OF AUTHORITY A2014008380

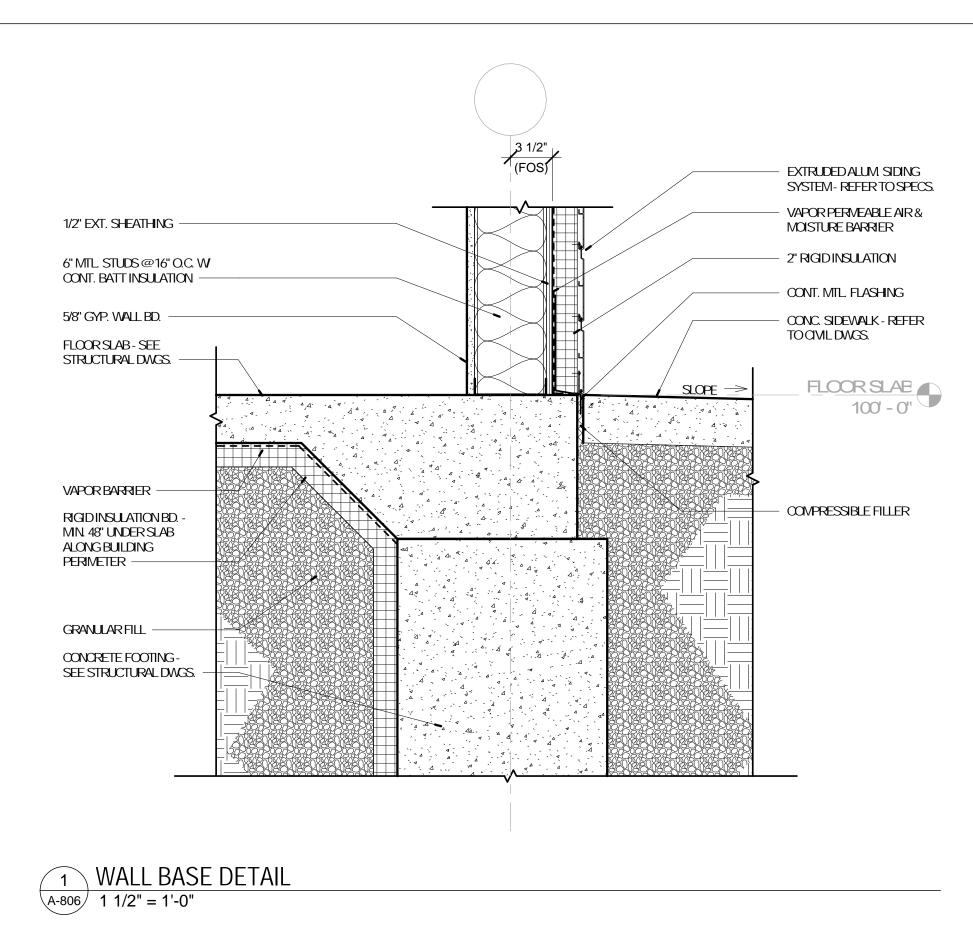
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECTNUMBER: 16-1161.02

SHEETTITLE:
DETAILS - BUILDING

A-805



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ARCHITECT OF RECORD:

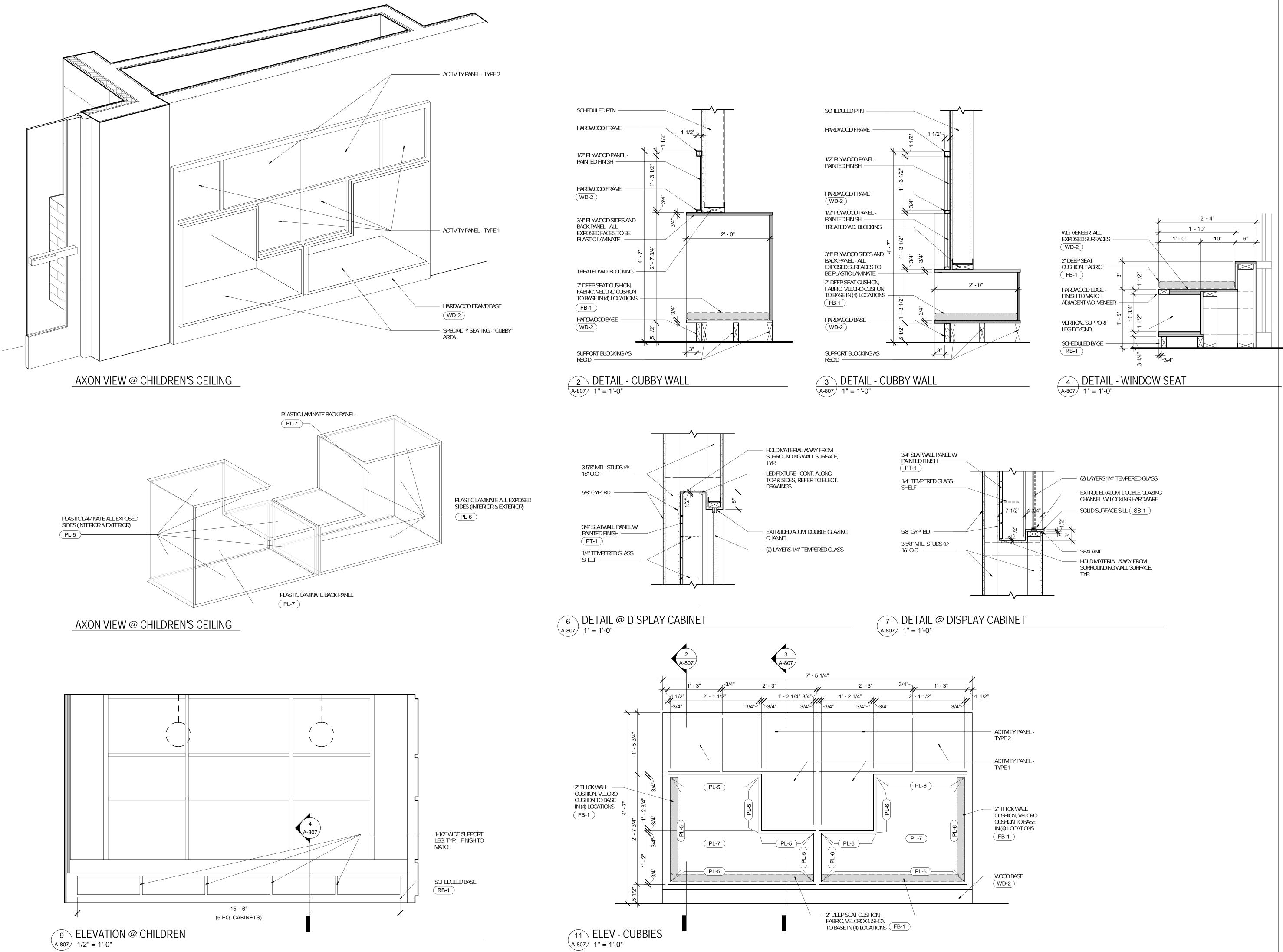
JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

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DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEET TITLE:
DETAILS - BUILDING



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ARCHITECT OF RECORD:

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MO CERTIFICATE OF AUTHORITY A201400838

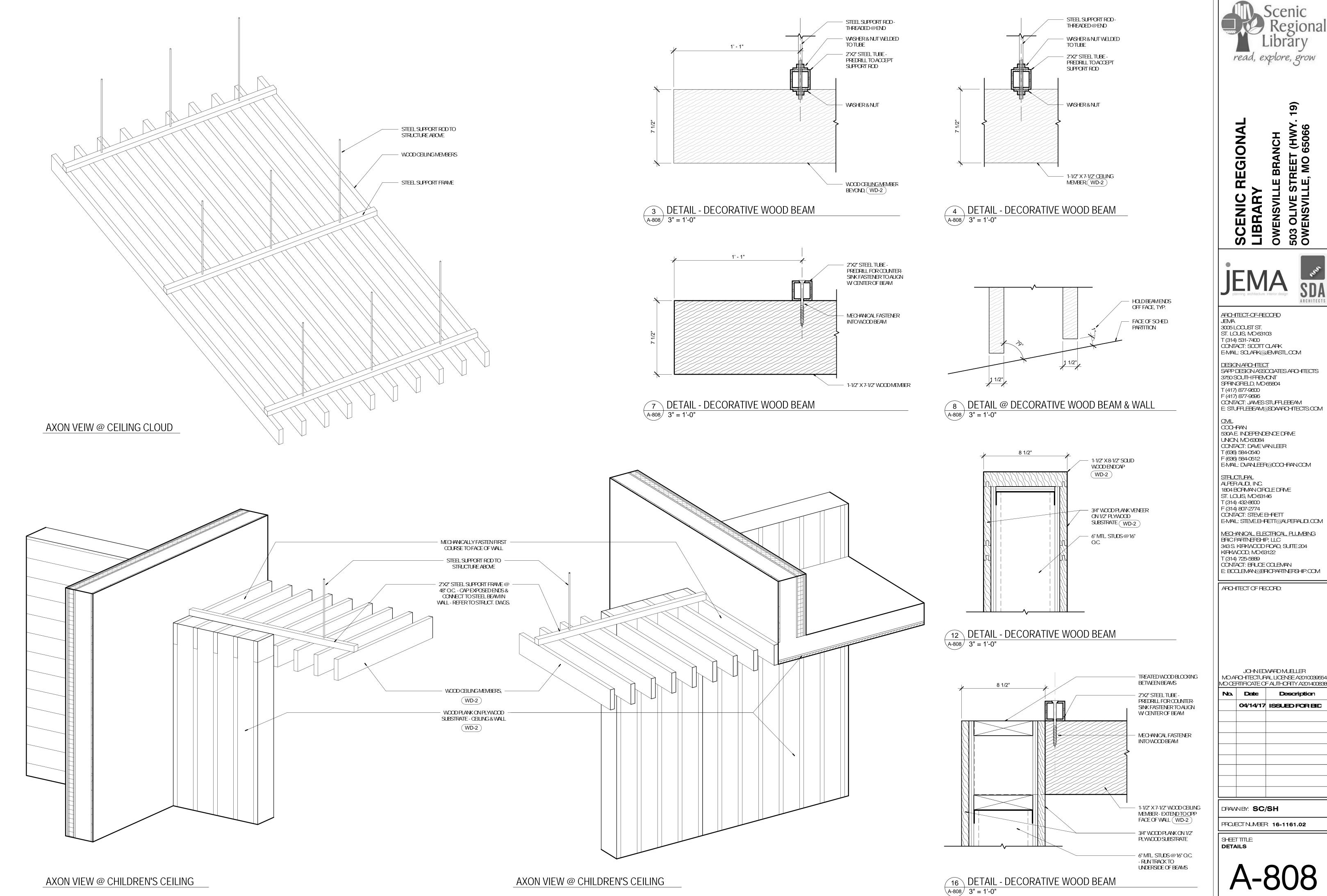
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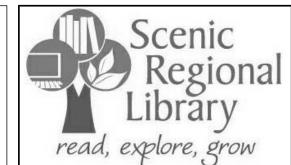
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PROJECT NUMBER: 16-1161.02

SHEETTITLE: DETAILS

A-807





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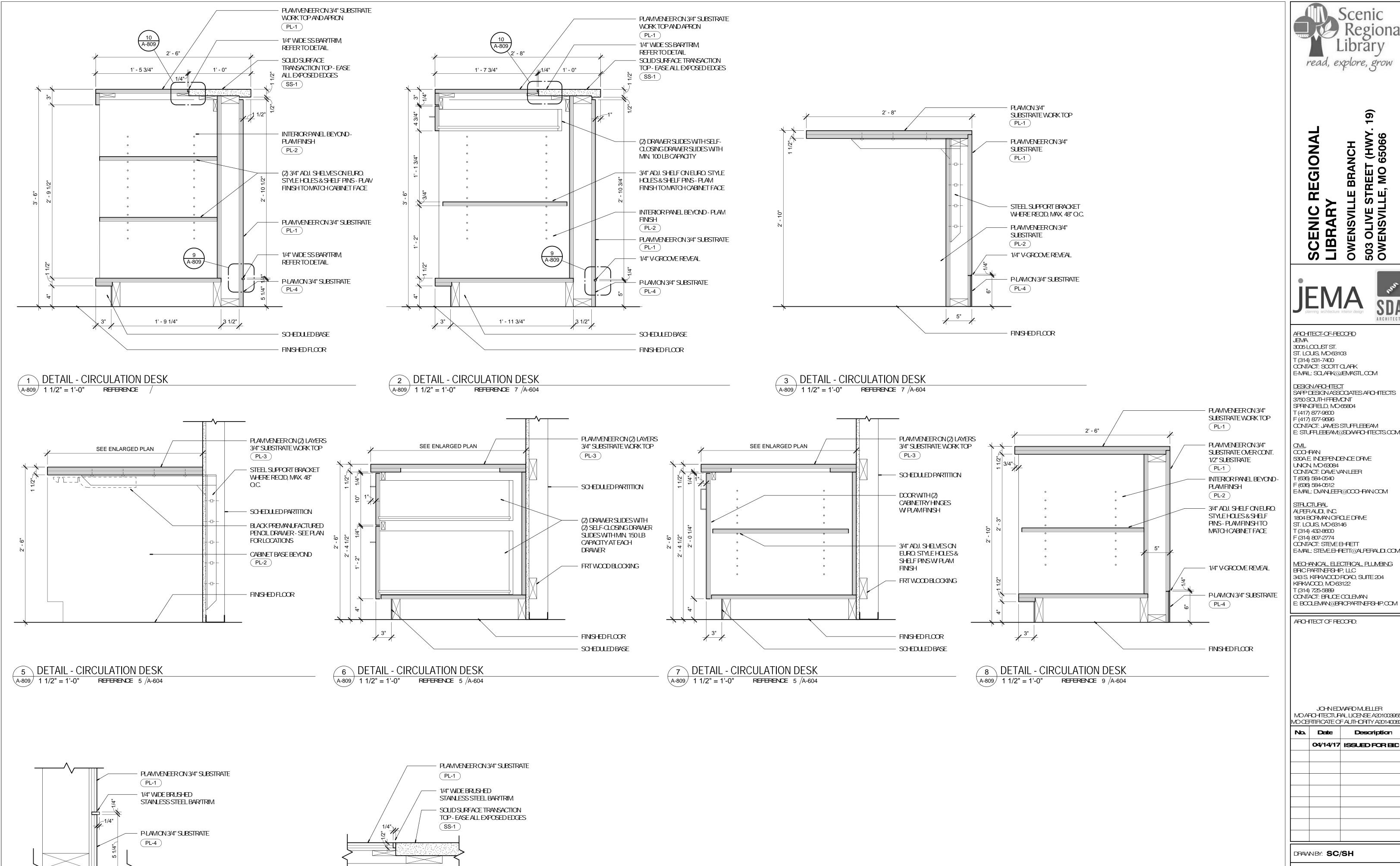
343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO63122 CONTACT: BRUCE COLEMAN

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. —						
	04/14/17	ISSUED FOR BID				



9 DETAIL - CIRCULATION DESK BASE TRIM

REFERENCE 1 /A-809

A-809/3" = 1'-0"

10 DETAIL - CIRCULATION DESK TOP

REFERENCE 1 /A-809

ARCHITECT-OF-RECORD 3005 LOCUST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAL: SOLARK@JEMASTLCOM

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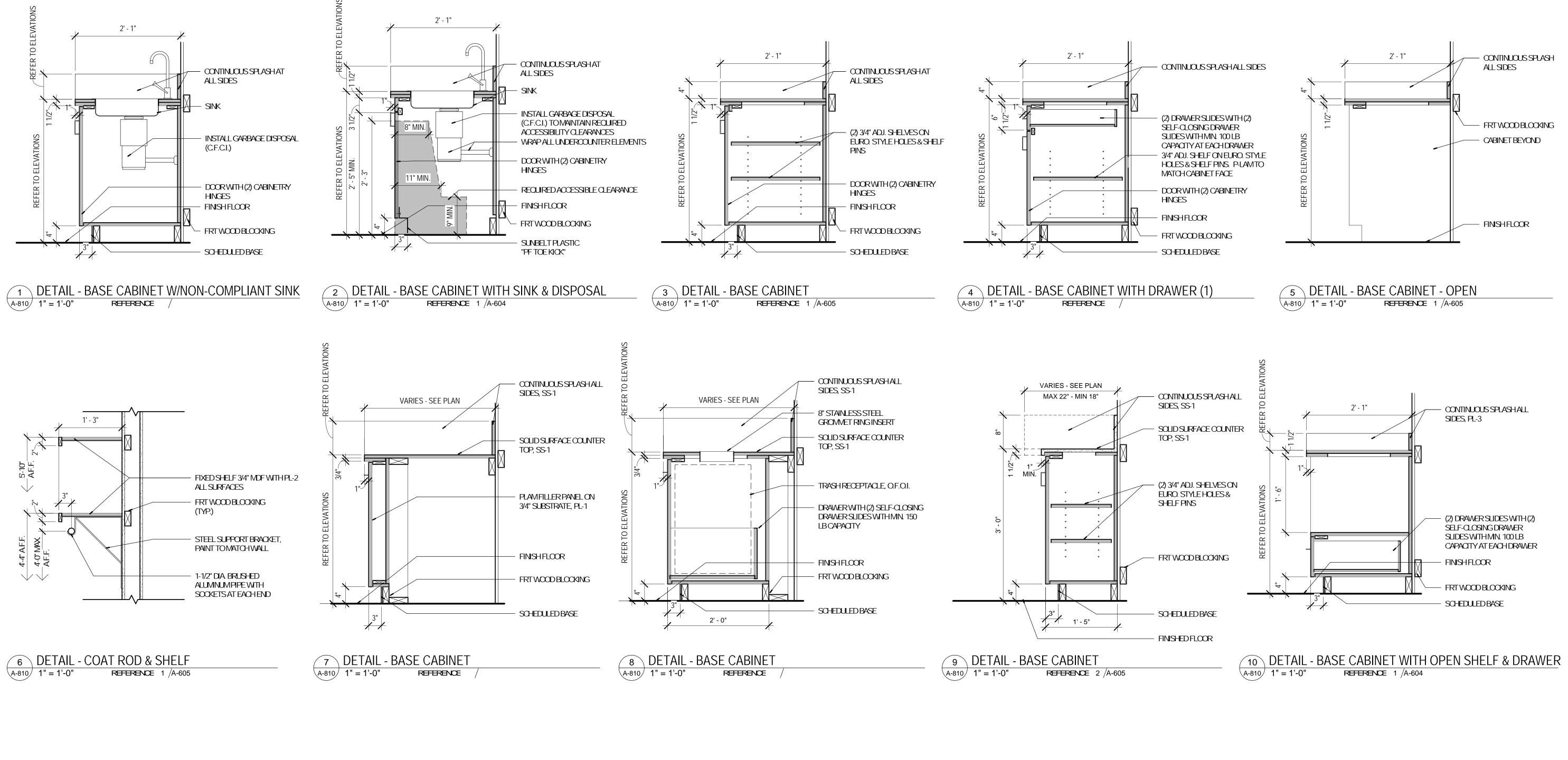
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No.	Date	Description
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PROJECT NUMBER: 16-1161.02

SHEETTITLE: **DETAILS - MILLWORK** 





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ARCHITECT OF RECORD:

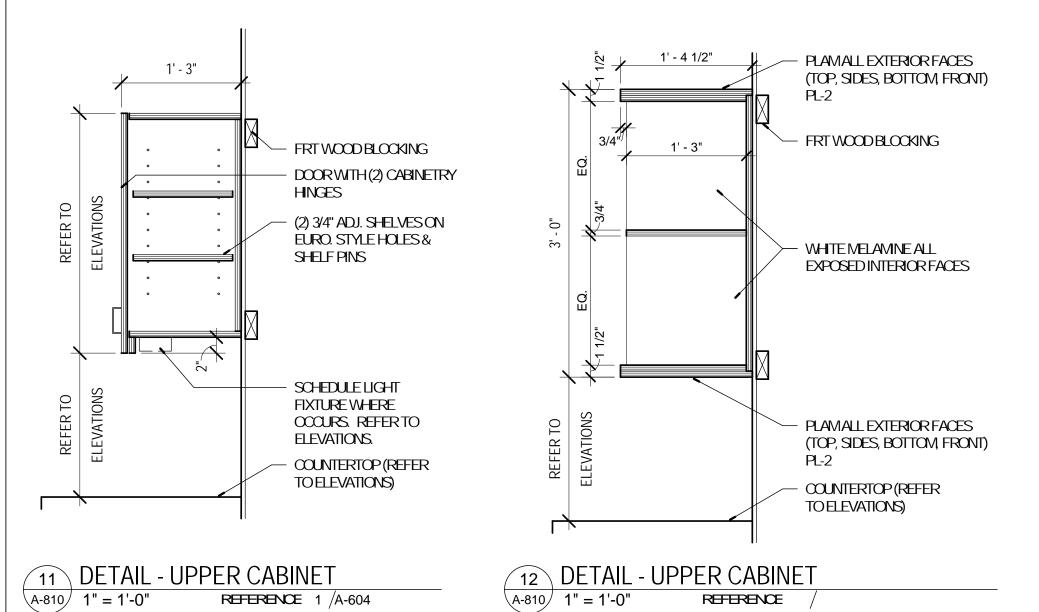
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

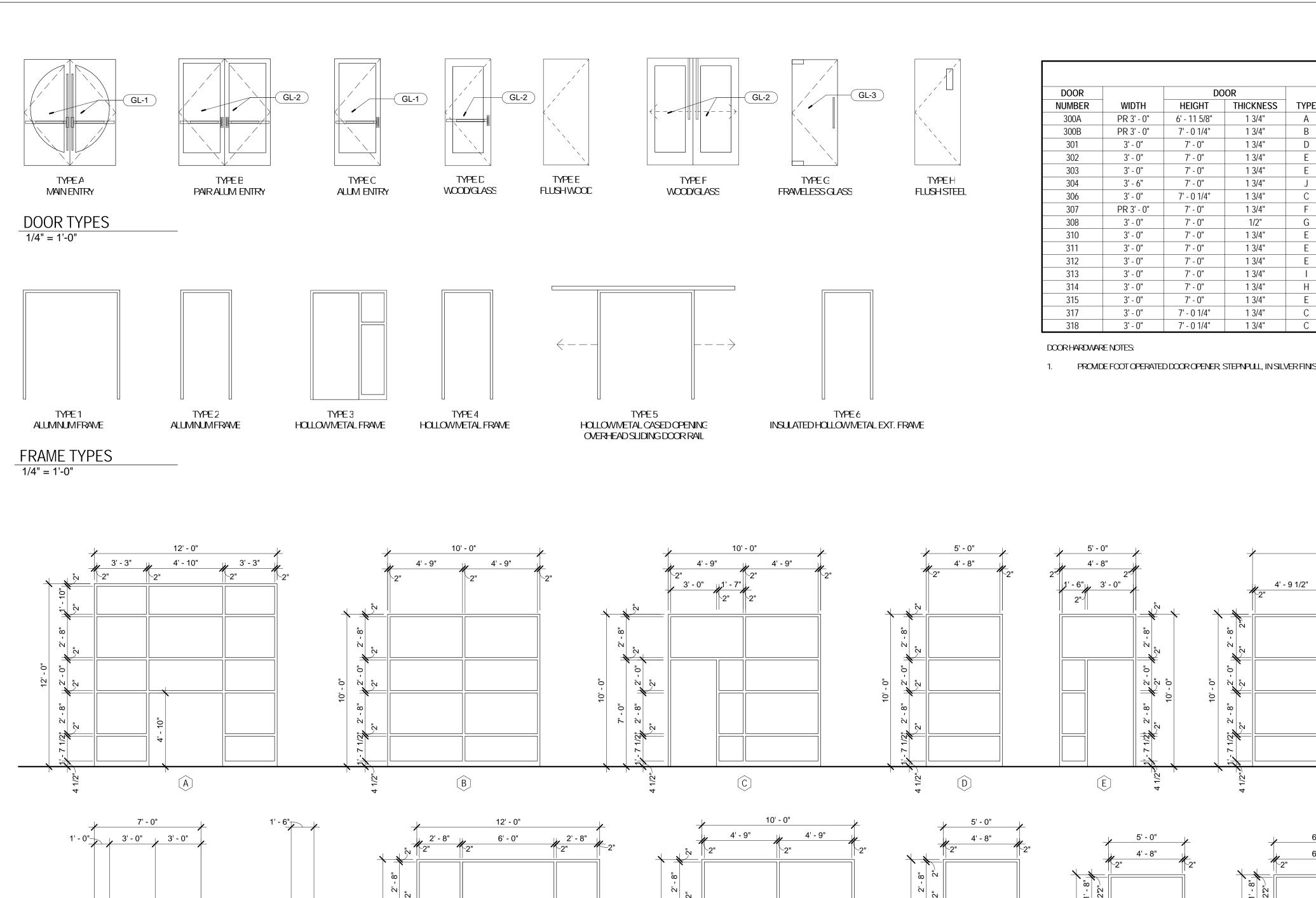
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PROJECT NUMBER: 16-1161.02

SHEETTITLE: **DETAILS - MILLWORK** 





(GL-4)

(K)

(GL-4)

(GL-4)

GL-3

WINDOW TYPES

1/4" = 1'-0"

	DOOR SCHEDULE									
DOOR		DO	OOR		DOOR	FRA	AME	HDWR		
NUMBER	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	FINISH	GROUPS	FIRE RATING	REMARKS
300A	PR 3' - 0"	6' - 11 5/8"	1 3/4"	А	ALUM.	1	PRE-FINISHED	1.0 AO		CUSTOM COLOR TO MATCH SAMPLE, SEE SPECS.
300B	PR 3' - 0"	7' - 0 1/4"	1 3/4"	В	ALUM.	1	PRE-FINISHED	4.0 AO		
301	3' - 0"	7' - 0"	1 3/4"	D	WD-1/GL-2	3	PT-3	6.0		
302	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	13.0		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
303	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	13.0		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
304	3' - 6"	7' - 0"	1 3/4"	J	WD-1	4	PT-3	7.0	45 MINUTE	
306	3' - 0"	7' - 0 1/4"	1 3/4"	С	ALUM.	2	PT-3	2.0		
307	PR 3' - 0"	7' - 0"	1 3/4"	F	WD-1/GL-2	5	PT-3	5.0		PAIR OF SLIDERS ON RAIL.
308	3' - 0"	7' - 0"	1/2"	G	N/A	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
310	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	11.0		
311	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	12.0		
312	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	9.0		
313	3' - 0"	7' - 0"	1 3/4"	I	WD-1	4	PT-3	10.0	45 MINUTE	
314	3' - 0"	7' - 0"	1 3/4"	Н	PT-?	6	PT-3	3.0		
315	3' - 0"	7' - 0"	1 3/4"	Е	WD-1	4	PT-3	9.0		
317	3' - 0"	7' - 0 1/4"	1 3/4"	С	ALUM.	2	PRE-FINISHED	2.0		
318	3' - 0"	7' - 0 1/4"	1 3/4"	С	ALUM.	2	PRE-FINISHED	2.0		

15' - 0"

4' - 9"

 $\widehat{\mathsf{F}}$ 

4' - 9 1/2"

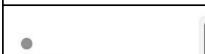
GL-3

0

NOTE: UNLESS NOTED OTHERWISE

ALL GALZING TO BE TYPE (GL-1)

1. PROMDE FOOT OPERATED DOOR OPENER, STEPNPULL, IN SILVER FINISH FOR THIS DOOR



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ARCHITECT OF RECORD:

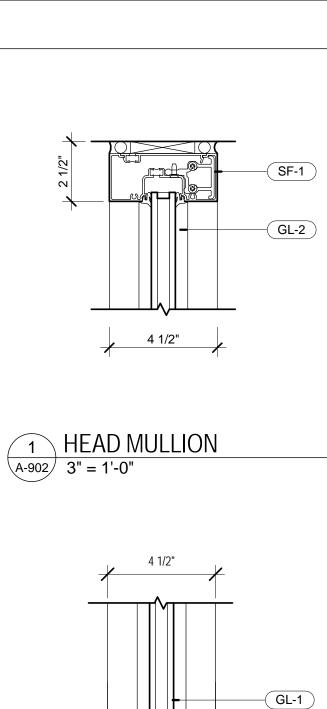
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

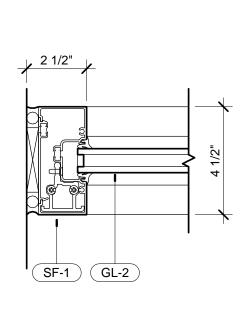
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEETTITLE: DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES

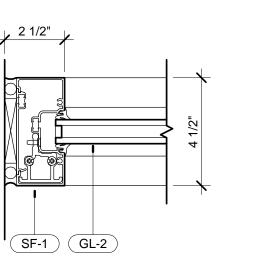


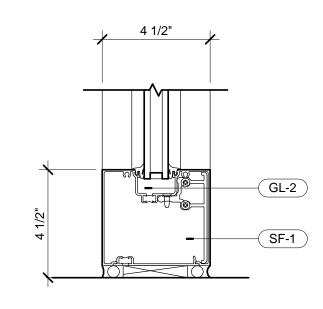


2 JAMB MULLION

A-902 3" = 1'-0"

A-902 3" = 1'-0"

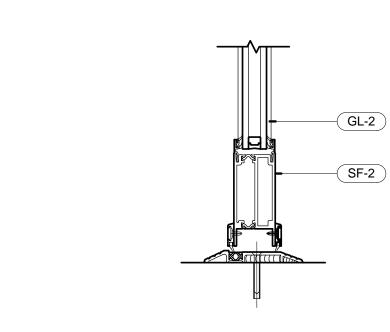




3 SILL MULLION

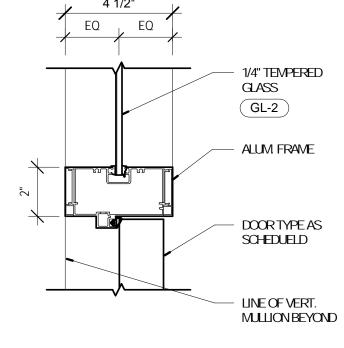
A-902 3" = 1'-0"

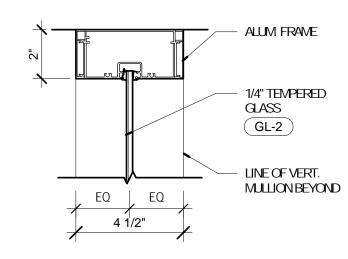
A-902 3" = 1'-0"



4 DOOR SILL

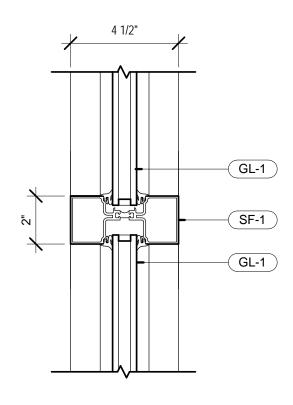
A-902 3" = 1'-0"





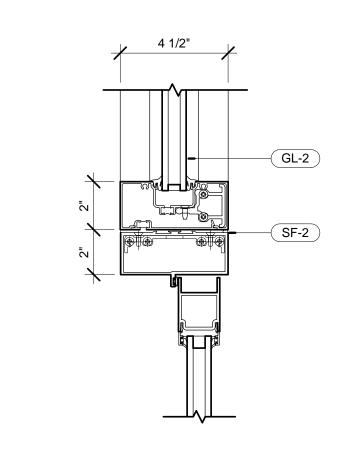
5 MULLION / DOOR JAMB A-902 3" = 1'-0"

6 MULLION / DOOR JAMB A-902 3" = 1'-0"

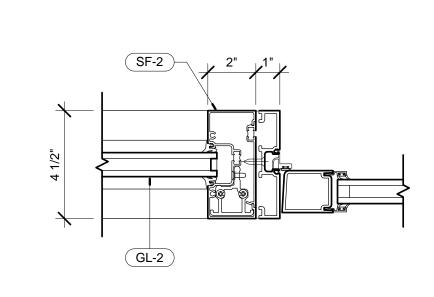


7 INNER MULLION

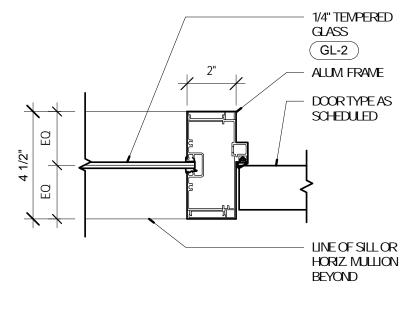
A-902 3" = 1'-0"

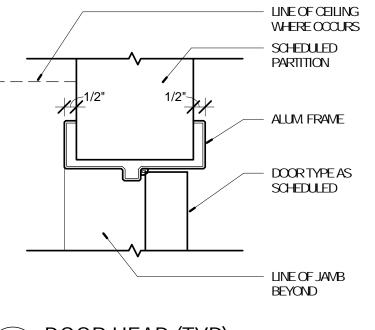


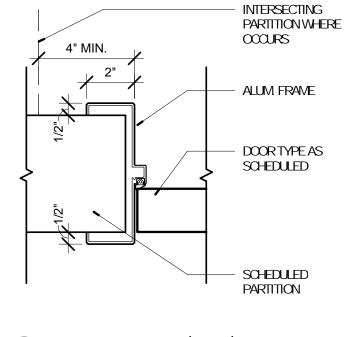
8 INNER MULLION / DOOR HEAD



9 INNER MULLION / DOOR JAMB



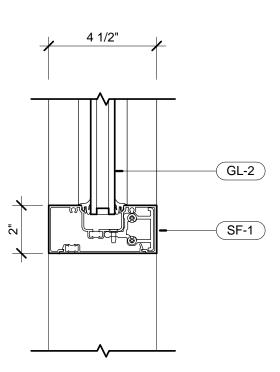




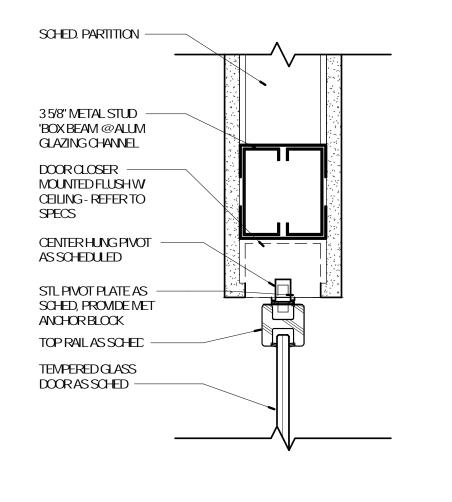
10 MULLION / DOOR JAMB A-902 3" = 1'-0"

11 DOOR HEAD (TYP) A-902 3" = 1'-0"

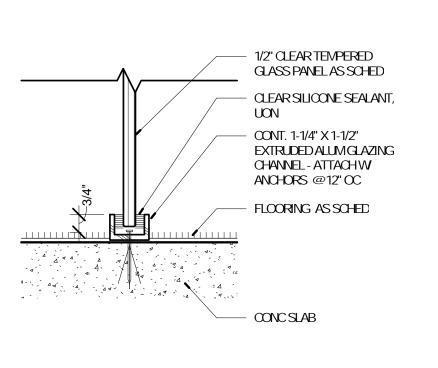
DOOR JAMB (TYP) A-902 3" = 1'-0"



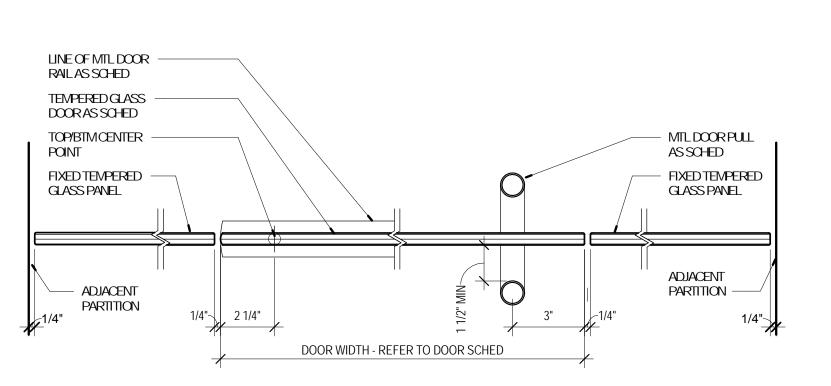








16 DETAIL @ GLASS PANEL SILL A-902 3" = 1'-0"



JAMB DETAIL @ TEMPERED GLASS DOOR A-902 3" = 1'-0"

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CONTACT: BRUCE COLEMAN

read, explore, grow

BRANCH

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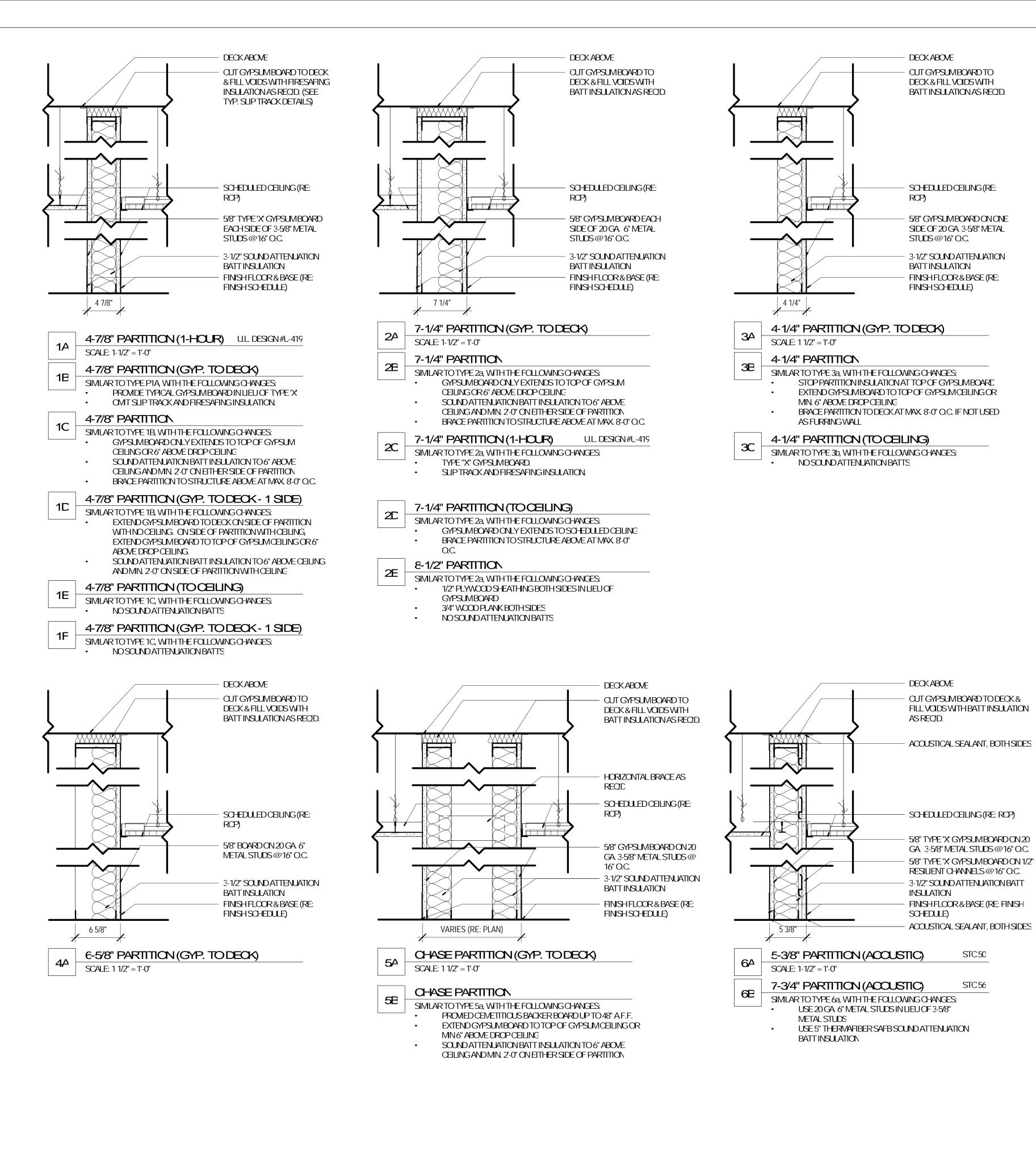
JOHN EDWARD MUELLER MOAPOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEET TITLE: FRAME DETAILS



read, explore, grow

OLIVE

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ARCHITECT OF RECORD:

STC50

STC56

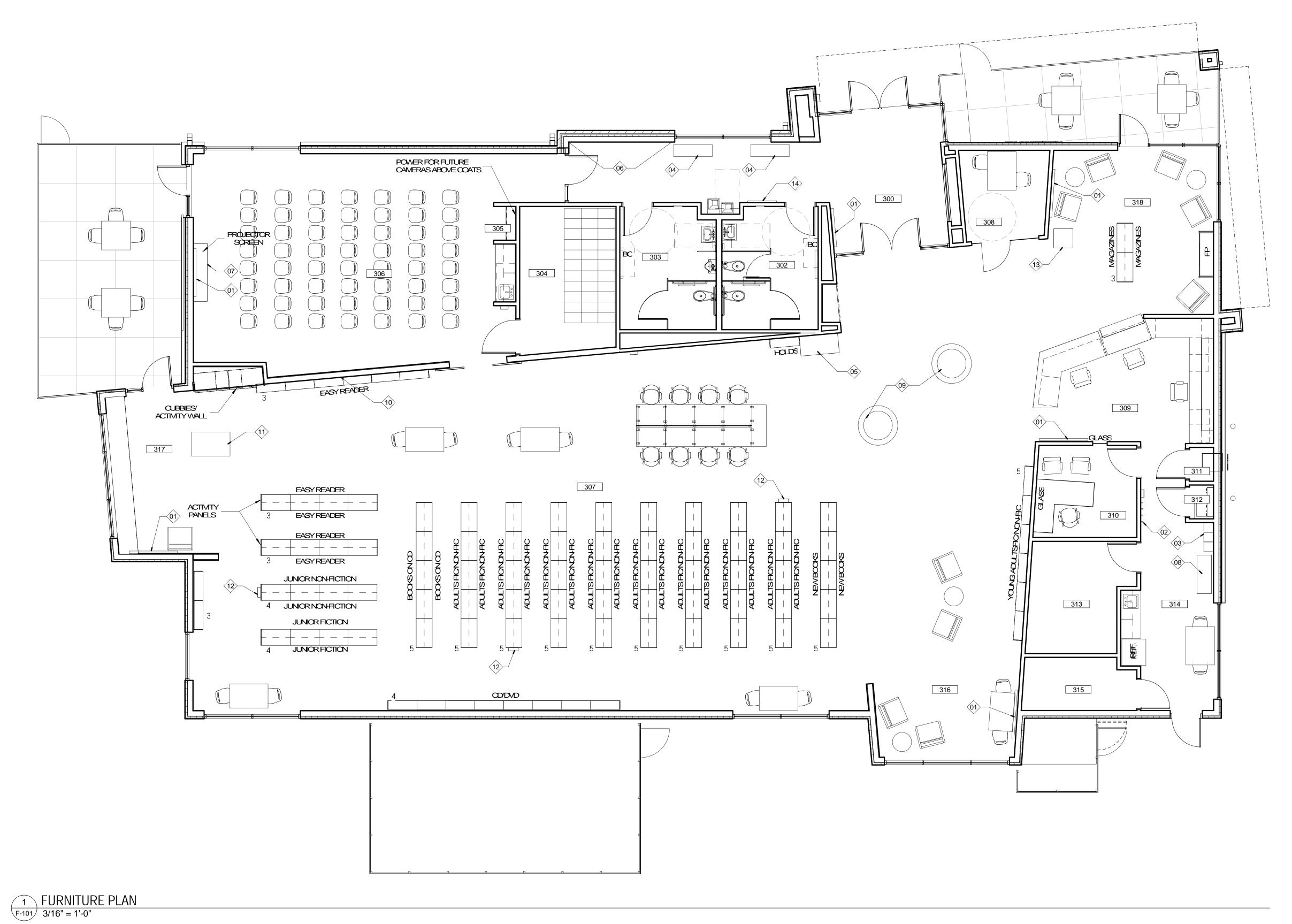
JOHN EDWARD MUELLER MO APOHTECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWNBY: SC/SH

PROJECT NUMBER: 16-1161.02

SHEETTITLE: PARTITION TYPES

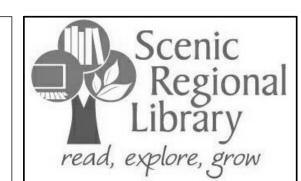


# GENERAL NOTES - FURNITURE PLAN

- ALL LIBRARY SHELVING INDICATED IS OFOI, SHOWN FOR REFERENCE.
   ALL FURNITURE INDICATED IS OFOI, SHOWN FOR REFERENCE. ALL APPLIANCES INDICATED ARE OFOI, SHOWN FOR REFERENCE

	KEYED NOTES - FURNITURE PLAN
Keynote Number	Description
01	WALL-MOUNTED DISPLAY, DISPLAY AND MOUNTING BRACKET OFCI.
02	COAT HOOKS, CFCI, SEE SPECIFICATIONS.
03	LOCKERS, CFCI, SEE SPECIFICATIONS.
04	BENCH, OFOI.
05	SELF SERVE KIOSK, OFOI.
06	DONOR WALL, ALL ITEMS PLAQUES ETC, OFC
07	GAMING CABINET, OFOI.
80	CART, OFOI.
09	TIERED BOOK DISPLAY, OFOI.
10	BULLETIN BOARD, OFCI.
11	I-PAD TABLE, OFOI.
12	OPAC UNIT, OFOI.
13	NEWSPAPER DISPLAY, OFOI.

LOCKING BULLETING BOARD CABINET, CFCI. REFER TO SPECS.



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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER MO ARCHTECTURAL LICENSE A2010039554 MO CERTIRICATE OF AUTHORITY A2014008380

No. Date Description

					•
				04/14/17	ISSUED FOR BID
ROOM SCHEDULE					
r	Name				
	ivairie				
	VESTIBULE				
	CORRIDOR				
	WOMENS				
	MENS				
	STORAGE				
	COATS				
	MEETING ROOM	   			
CIRCULATION			DRAV	WBY: SC	/SH
	STUDY			•	

WORK ROOM OFFICE

BOOK DROP

STORAGE BREAK ROOM MECH/ELEC TEEN AREA

JANITORS CLOSET

CHILDREN AREA ADULT AREA

PROJECT NUMBER: 16-1161.02

SHEETTITLE: FURNITURE PLAN - FIRST FLOOR

DESIGN CRITERIA

A. CODES AND STANDARDS:

2003 INTERNATIONAL BUILDING CODE (I.B.C.) **BUILDING OCCUPANCY CATEGORY: II** 

B. DESIGN LOADS:

SUPERIMPOSED DEAD LOADS:

**ROOFING: 3 PSF** INSULATION: 4 PSF METAL DECK: 3 PSF CEILINGS: 2 PSF MEP: 4 PSF SPRINKLER LIVE LOADS: 4 PSF

LIVE LOADS:

MINIMUM LIVE LOAD: 23 PSF

SNOW LOADS:

SNOW LOAD IMPORTANCE FACTOR: I = 1.0 GROUND SNOW LOAD: Pg = 20 PSF FLAT ROOF SNOW LOAD: Pf = 14 PSF SNOW EXPOSURE FACTOR: Ce = 1.0 THERMAL FACTOR: Ct = 1.0

WIND DESIGN DATA:

WIND LOAD IMPORTANCE FACTOR: I = 1.0 BASIC WIND SPEED: 90 MPH WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: +/- 0.18 COMPONENTS AND CLADDING: (0.10 SF): ZONE 1: -19.9 PSF / +10 PSF ZONE 2: -23.0 PSF / +10 PSF ZONE 3: -30.8 PSF / +10 PSF ZONE 4: -18.2 PSF / +16.8 PSF

ZONE 5: -22.4 PSF / +16.8 PSF

SEISMIC DESIGN DATA:

SEISMIC IMPORTANCE FACTOR: I = 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 33.6 / S1 = 12.4% SITE CLASS: C SPECTRAL RESPONSE COEFFICIENTS: Sds = 26.9% / Sd1 = 13.8% SEISMIC DESIGN CATEGORY: C BASIC STRUCTURAL SYSTEM: STRUCTURAL STEEL SYSTEM BASIC SEISMIC FORCE-RESISTING SYSTEM(S): STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. RESPONSE MODIFICATION FACTOR: R = 3

SEISMIC RESPONSE COEFFICIENT: Cs = 0.09 DESIGN BASE SHEAR: V = 18K ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

#### **FOUNDATIONS**:

#### **DESIGN**:

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE "SOILS AND FOUNDATION INVESTIGATION" BY SCI ENGINEERING, INC. DATED MARCH 2015.

#### BACKFILLING:

A. DO NOT BACKFILL BASEMENT WALLS AND GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE OR ADEQUATE TEMPORARY BRACING IS INSTALLED.

B. BACKFILL UNDER FOUNDATIONS WITH CONCRETE OR AS APPROVED BY GEOTECHNICAL ENGINEER.

#### **SPREAD FOOTINGS:**

1. FOOTINGS SHALL BEAR ON NATURAL LEAN CLAY, REMEDIATED EXISTING FILL OR REMEDIATED EXPANSIVE CLAY SOILS CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 2400 PSF AND 2000 PSF FOR COLUMNS AND CONTINUOUS FOOTINGS, RESPECTIVELY, UNDER FULL SERVICE LIVE AND DEAD LOADS.

2. TOP OF FOOTING (T/F) ELEVATIONS ARE SHOWN ON THE PLANS.

3. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH U.N.O.. CONTRACTOR TO PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO SOIL CHARACTERISTICS OR SLOPE OF EXCAVATIONS.

4. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

5. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 30" BELOW FINAL GRADE FOR

#### FOUNDATION / RETAINING WALLS:

1. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 50 PCF

2. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 70 PCF

3. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 250 PCF

4. SURCHARGE LOADS ARE 100 PSF AT THE SURFACE.

5. COEFFICIENT OF SLIDING FRICTION:

#### CONCRETE/SOIL = 0.35 (ASSUMED)

6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.

7. 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 WALL.

8. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED ITS 28 DAY STRENGTH.

#### CONCRETE:

 CONCRETE SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN A.C.I. 301 AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY. IN ACCORDANCE WITH THE FOLLOWING:

INTENDED USE	28 DAY STRENGTH fc (K.S.I.)	CONCRETE DENSITY	MAXIMUM W/C (INCLUDING FLY ASH)	MINIMUM CEMENT MATERIAL (#/CY INCLUDING FLY ASH)	MAXIMUM AGGREGATE (IN.)	SLUMP LIMITS (IN.) (+0", -2")	TOTAL AIR LIMITS (%0) (B)	REQUIRED ADMIXTURES (C)
FOOTINGS	4	145	0.48	564	1	4	-	-
FOUNDATION WALLS	4	145	0.48	564	3/4	4	-	-
CONCRETE EXPOSED TO DEICERS	4	145	0.40	564	3/4	4	6	AE, WR
INTERIOR SLABS ON GRADE	4	145	0.50	564	1	4	N	-
ALL CONCRETE NOT OTHERWISE SPECIFIED	4	145	0.40	564	3/4	4	6	-

A. FOR MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER A.S.T.M. C33:

3/8" - #8 AGGREGATE 3/4" - #67 AGGREGATE 1" - #57 AGGREGATE 1 1/2" - #467 AGGREGATE

B. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. "N" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.

C. ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS: AE - AIR-ENTRAINING ADMIXTURE, WR - WATER REDUCING ADMIXTURE

D. MAXIMUM SHRINKAGE FOR SLAB ON GRADE SHALL BE LIMITED TO 5/8" PER 100 FOOT.

2. REINFORCING SHALL CONFORM TO A.S.T.M. A615, GR. 60, INCLUDING TIES AND STIRRUPS. BARS REQUIRING WELDING OR FIELD BENDING SHALL BE A.S.T.M. A706, GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.

4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

#### SPLICES f'c = 4000 P.S.I., fy = 60,000 P.S.I.

· · ·	32010		· · · · · · · · · · · · · · · · · · ·	00,000									
	STANDARD TENSION LAP SPLICE, GRADE 60												
			С	LASS A	and B L	AP SPL	ICE LEN	GTH (IN	ICHES)				
			f'c = 3,0	00 P.S.I.			f'c = 4,0	00 P.S.I			f'c = 5,0	00 P.S.I.	
BAR	CLASS		4	[	3		4		3	,	4	l l	3
SIZE	CASE	1	2	1	2	1	2	1	2	1	2	1	2
#3		16	25	21	32	14	21	18	28	13	19	17	25
#4		22	33	28	43	19	28	25	37	17	25	22	33
#5		27	41	36	53	24	36	31	46	21	32	28	41
#6		33	49	43	64	28	43	37	55	25	38	33	50
#7		48	72	62	93	42	62	54	81	37	56	48	72
#8		55	82	71	107	47	71	62	92	42	64	55	83
#9		62	93	80	120	54	80	70	104	48	72	62	93
#10		70	104	90	136	60	90	78	117	54	81	70	105
#11		77	116	100	151	67	100	87	130	60	90	78	117

"TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR. SEE NOTE 4 IN TABLE NOTES.

		TABLE NOTES:			
COMPRESSION LAP SCHEDULE					
LAP LENGT	H (INCHES)	1. TABLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR			
f'c = 3,000 P.S.I	. OR GREATER	DIAMETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER,			
BAR SIZE 30 BAR DIA.		USE CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.			
#3	12	2. ALL SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS			
#4	15	OTHERWISE NOTED.			
#5	19	3. SPLICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL			
#6	22	MESH SPACE PLUS 2 INCHES.			
#7	26	4. FOR TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.			
#8	29				
#9	33	5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING			
#10	37	LESS THAN 6db, MULTIPLY LENGTHS BY 1.2 FOR ALL OTHER			
#11	41	EPOXY COATED REINFORCEMENT.			
		6 EOD LICHT WEIGHT CONCRETE MUILTIDI VI ENCTUS IN TADI E			

6. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE

7. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS

5. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH THE LATEST EDITION OF THE A.C.I. DETAILING MANUAL.

6. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER. IN ACCORDANCE WITH C.R.S.I. "REINFORCING BAR DETAILING", LATEST EDITION.

7. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.

B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2 IN. FOR #5 BAR OR SMALLER, 2 IN. FOR #6 BAR OR LARGER

C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS, SLABS: 3/4 IN., BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 1/2 IN.

#### **CONCRETE NOTES (CONT)**

8. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS WITH LOCATIONS SUBJECT TO APPROVAL BY ENGINEER. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.

9. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

10. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

11. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.

12. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF A.C.I. 301

13. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS.

14. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT.

15. PROVIDE CONCRETE EQUIPMENT PADS. INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18"O.C. EACH WAY. REINFORCE PADS WITH #4@18 EACH WAY, TOP AND BOTTOM, UNLESS OTHERWISE REQUIRED BY EQUIPMENT ANCHORAGE DESIGN.

16. REFER TO MECHANICAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAINS.

17. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.

18. PROVIDE CONTINUOUS WATERSTOP AT HORIZONTAL AND VERTICAL JOINTS BELOW GRADE.

19. SHORING OF COMPOSITE BEAMS AND GIRDERS IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR. SEE COMPOSITE BEAM AND DECK NOTES FOR SHORING REQUIREMENTS.

20. FILL SLABS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 W.W.F., UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR PLAN DIMENSIONS, THICKNESSES, SLOPES TO DRAIN, ETC.

21. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES ONLY:

A. WALLS: #5 EACH WAY EACH FACE. SPACING IN INCHES = 140 / (WALL THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

B. BEAMS: 1-#9 CONTINUOUS TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUPS SPACED AT 1/4 OF BEAM DEPTH FULL LENGTH OF BEAM.

C. COLUMNS: 1-#9 VERTICAL PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES @

D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

ON SHOP DRAWINGS. INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES". SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW.

22. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY REINFORCING.

23. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP. BOTTOM AND ENDS OF WALLS, ETC...).

24. PROVIDE (2)#5 (MINIMUM) @ EACH SIDE OF OPENING. EXTEND 2'-0" BEYOND OPENINGS.

#### STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL WIDE FLANGE (U.N.O.): A992 GRADE 50 (Fy=50) ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION, PLATES (U.N.O.): A36 (Fy=36) STRUCTURAL PIPE: A53 (Fy=35) STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (Fv=46) STRUCTURAL HSS ROUND TUBE: A500 GRADE B (Fy=42)

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.

3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE 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 PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE

A. ALL PLATE DIMENSIONS AND GRADES.

B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.

C. ALL HOLE SIZES AND SPACINGS.

D. NUMBER AND TYPES 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.

PRIOR TO FABRICATION, PROVIDE (FOR RECORD COPY) DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS, ALL PRIMARY BRACING AND HANGER CONNECTIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER.

#### STRUCTURAL STEEL (CONT)

4. CONNECTION DESIGN FORCES:

A. UNLESS REACTIONS ARE SHOWN, FACTORED BEAM CONNECTIONS SHALL BE DESIGNED FOR THE GREATER OF:

55% OF MAXIMUM TOTAL UNIFORM LOAD FROM A.I.S.C. 13TH EDITION MAXIMUM TOTAL UNIFORM LOAD TABLES

#### 15 KIPS

B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: ---<H>--- DESIGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP THE FULL PLASTIC MOMENT CAPACITY OF MEMBER.

C. MAINTAIN TENSION CAPACITY OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.

D. CONNECTION FORCE NOTATION:

P = AXIAL FORCE IN KIPS: (+) TENSION, (-) COMPRESSION VOR[] = SHEAR IN KIPS M = MOMENT IN FOOT KIPS

E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD

5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8".

REDUCTIONS FOR CONNECTION DESIGN.

6. BOLTED CONNECTIONS:

T = TORSION IN FOOT KIPS

A. MINIMUM BOLT DIAMETER = 3/4"

B. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC 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 ALLOWED FOR SLIP CRITICAL

C. 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

D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.

E. 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 ELEVATION.

F. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.

G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.

7. WELDED CONNECTIONS:

EMBED PLATE.

A. WELDS ARE CONTINUOUS UNLESS NOTED.

B. ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1/4" UNLESS NOTED OTHERWISE.

C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT "STRUCTURAL WELDING CODE" (A.W.S. D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. D1.1).

D. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE

8. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES,

10. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED. 11. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY.

ANCHOR BEAMS TO MASONRY OR CONCRETE WITH 2-3/4" DIA. ANCHOR BOLTS OR WELDED TO

12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

13. SHEAR STUDS: CONFORM TO A.W.S. D1.1-98, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK.

14. HEADED STUDS SHALL CONFORM TO A.S.T.M. A108, GRADE 1015, WELDABLE (Fy = 65 K.S.I.).

15. WHERE FIREPROOFING IS REQUIRED, ADJUST FIREPROOFING THICKNESS BASED ON MEMBER SIZES. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS AND THICKNESS.

16. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL STAIRS. STAIRS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. STAIRS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR.



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STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025

MO CERTIFICATE OF AUTHORITY 000287

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: TRN

SHEET TITLE:

**GENERAL NOTES** 

PROJECT NUMBER: 16019

#### METAL ROOF DECK:

- 1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE PROJECT SPECIFICATIONS SEE PLANS FOR DECK TYPES AND GAUGES.
- 2. METAL ROOF DECK HAS BEEN DESIGNED TO FUNCTION AS A DIAPHRAGM FOR THE TRANSMISSION OF LATERAL LOADS.
- 3. LAP DECK 4" MINIMUM AT SPLICES CENTERED ON SUPPORT
- 4. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC... CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUBFRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
- 5. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.
- 6. MINIMUM YIELD STRENGTH = 33 K.S.I.
- 7. METAL DECK SHALL BE ROLLED OF STEEL SHEETS CONFORMING TO A.S.T.M. A1008 GRADE A. NO METAL ROOF DECK SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH NOT LESS THAN THAT PROVIDED BY VULCRAFT FOR THE TYPE OF DECK INDICATED.
- 8. DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE FRAMING FOR OPENINGS PER TYPICAL DETAILS

#### STEEL JOISTS:

- 1. STEEL JOISTS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH "S.J.I." SPECIFICATIONS (LATEST EDITION).
- 2. BRIDGING SHALL BE SPACED IN ACCORDANCE WITH S.J.I. SPECIFICATIONS AND THE ERECTION DRAWINGS OF THE JOIST SUPPLIER. STEEL JOIST BRIDGING SHALL BE PLACED AND JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. JOIST SUPPLIER SHALL PROVIDE ALL BRIDGING NECESSARY TO ADEQUATELY BRACE THE JOIST TOP CHORD WHERE ROOF CONSTRUCTION IS
- 3. MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE:
- K SERIES: 2 1/2" ON STRUCTURAL STEEL
- LH & DLH SERIES: 4" ON STRUCTURAL STEEL
- 4. UNLESS NOTED OTHERWISE, JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK AS FOLLOWS.
- K SERIES: TWO 1/8" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT. LH & DLH SERIES: TWO 1/4" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT.
- 5. JOISTS, AT COLUMN CENTERLINES, SHALL BE BOLTED TO STRUCTURAL STEEL BEAMS PER S.J.I. REQUIREMENTS.
- 6. SEE DETAILS FOR ATTACHMENT OF JOISTS TO CONCRETE AND MASONRY.
- 7. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, SHALL BE ATTACHED THERETO BY FIELD WELDING OR BOLTING. SEE DRAWINGS FOR DETAIL OF ATTACHMENT OF BRIDGING TO CONCRETE OR MASONRY.
- 8. JOISTS SHALL BE STOCKPILED AT THE JOBSITE IN A VERTICAL POSITION, RESTING ON THEIR TOP OR BOTTOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED WITH WOOD BLOCKING. KEEP JOISTS FREE OF MUD AND DIRT.
- 9. IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO SEE THAT JOISTS WHICH ARE DAMAGED, KINKED, BENT, OR WITH BROKEN WELDS, ARE NOT PLACED IN THE STRUCTURE.
- 10. JOIST SUPPLIER SHALL DESIGN JOISTS AND SUBMIT CALCULATIONS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT FOR RECORD COPY TO BUILDING DEPARTMENT AND ENGINEER OF RECORD PRIOR TO FABRICATION OF JOISTS. THE ABOVE CALCULATIONS TO INCLUDE ALL LOADING CONDITIONS SHOWN ON THE DRAWINGS AND DETAILS.
- 11. JOIST ENDS, AT ROOF DIAPHRAGM BOUNDARIES, SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR TO THE SUPPORTING STRUCTURE. SEE DETAILS.
- 12. THE JOIST DESIGN AND BRIDGING PLACEMENT SHALL BE CHECKED BY THE JOIST MANUFACTURER USING THE NET UPLIFT SPECIFIED ON THE DRAWINGS. CHANGES IN JOIST SIZE AND/OR BRIDGING PLACEMENT WILL SHOW UP ON THE SHOP DRAWINGS.
- 13. LOCATE PIPE AND EQUIPMENT HANGERS AND OTHER CONCENTRATED LOADS ONLY WHERE LOADS ARE SHOWN ON JOIST SHOP DRAWINGS. ATTACHMENT METHOD AS APPROVED BY JOIST MANUFACTURER.
- 14. ALL HOLES IN SUPPORTING STEEL PROVIDED FOR JOIST ERECTION SHALL BE "FILLED" WITH APPROPRIATE DIAMETER BOLT OR PLUG WELDED. HOLES IN SUPPORTING STEEL SHALL NOT BE SLOTTED.

#### POST-INSTALLED MECHANICAL ANCHORS:

- 1. POST-INSTALLED MECHANICAL ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.
- 2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OR RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- 3. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT DEPTH REQUIRED TO SUPPORT THE INTENDED LOAD. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS LOCATED, SHOWING THAT THE SUBSTITUTED PRODUCTS WILL ACHIEVE AN EQUIVALENT CAPACITY.
- 4. UNLESS OTHERWISE NOTED IN THE DETAILS, ANCHORS SHALL BE:
- A. CONCRETE EXPANSION ANCHORS:
- ALL CONCRETE EXPANSION ANCHORS SHALL MEET THE REQUIREMENTS OF A.C.I. 318, APPENDIX D AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UN-CRACKED CONCRETE.
- "STRONG-BOLT" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1771)
  "KWIK BOLT TZ" BY HILTI, INC. (ICC-ES ESR-1917)
  "HSL HEAVY DUTY SLEEVE ANCHOR" BY HILTI, INC. (ICC-ES ESR-1545)
  "HDA UNDERCUT ANCHOR" BY HILTI, INC. (ICC-ES ESR-1546)
  "KWIK BOLT 3" BY HILTI, INC. UNCRACKED ONLY (ICC-ES ESR-2302)
- B. GROUTED MASONRY EXPANSION ANCHORS:
- "WEDGE-ALL" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1396)
  "KWIK BOLT 3" BY HILTI, INC. (ICC-ES ESR-1385)
- ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS
- C. CONCRETE SCREW ANCHORS:
- ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.
- "TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713) CRACKED AND UN-CRACKED
- "KWIK HUS EZ AND EZ-1" BY HILTI, INC. (ICC-ES ESR-3027)
- D. MASONRY SCREW ANCHORS:
- ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.
- "TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713)
  "HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)
- E. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

#### POST-INSTALLED ADHESIVE ANCHORS:

- 1. POST-INSTALLED ADHESIVE ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.
- 2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- 3. ADHESIVE ANCHOR SYSTEMS IN CONCRETE MUST COMPLY WITH THE LATEST REVISION OF ICCES ACCEPTANCE CRITERIA AC308 AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS IN CONCRETE ARE LISTED BELOW:
- "HIT-HY 200SAFE SET" BY HILTI, INC. (ICC-ES ESR-3187)
- "HIT RE 500-SD" BY HILTI, INC. (ICC-ES ESR-2322) CRACKED AND UN-CRACKED CONCRETE "SET-XP EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2508) CRACKED AND UN-CRACKED CONCRETE
- ADHESIVE ANCHORS SHALL CONSIST OF AN INSERT AND AN ADHESIVE FORMULA. INSERTS SHALL MEET THE REQUIREMENTS OF A.S.T.M. A307, A36, A193-B7, OR F1554 FOR THREADED RODS OR A.S.T.M. A615 OR A706 FOR REBAR UNLESS NOTED OTHERWISE.
- ALL ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG TERM LOADING ONLY. NON-EPOXY BASED ADHESIVES SHALL BE USED WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F.
- 4. ADHESIVE ANCHOR SYSTEMS IN GROUTED MASONRY MUST COMPLY WITH THE LATEST REVISION OF ICC-ES AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS ARE LISTED BELOW:
- "HIT-HY 70" BY HILTI, INC. (ICC-ES ESR-PENDING)
- "SET EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1772)
  ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS.
- 5. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTIONS ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR.
- 6. BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH INSTRUCTIONS ACCOMPANYING THE ADHESIVE CARTRIDGE AND APPLICABLE ICC-ESR IN ORDER TO PRODUCE A DRY, DUST-FREE HOLE
- 7. INJECTION OF ADHESIVE SHALL BE PREFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ACCOMPANYING PRODUCT AND APPLICABLE ICC-ESR TO PRODUCE AN AIR-VOID
- 8. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- 9. SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE, WATER-FILLED HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.
- 10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.
- 11. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.
- 12. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING HILTI PROFI SYSTEM.

#### DEFERRED SUBMITTALS:

FREE INJECTION.

- 1. THE FOLLOWING PROJECT COMPONENTS REQUIRE DESIGN TO BE PROVIDED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT:
- A. CONNECTION DESIGN FOR BRACED FRAMES, MOMENT FRAMES, COLLECTOR BEAMS AND TYPICAL SHEAR CONNECTIONS.
- B. STRUCTURAL LIGHT GAUGE STEEL FRAMING CALCULATIONS AND DETAILS.

#### MISCELLANEOUS:

- 1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- 4. 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.
- 5. 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.
- 6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR
- 7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND
- 8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- 9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
- 10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- 11. 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 ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
- 12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
- 13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.
- 14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.
- 15. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.
- 16. VERIFY ELEVATOR AND ESCALATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

#### SPECIAL INSPECTION:

THE FOLLOWING STRUCTURAL ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER I.B.C. SECTION 1704. CONTRACTOR TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACT.

TYPE OF CONSTRUCTION	IBC SECTION	IBC TABLE		
INSPECTION OF FABRICATOR	1704.2	-		
STRUCTURAL STEEL CONSTRUCTION	1704.3	1704.3		
CONCRETE	1704.4	1704.4		
SOILS	1704.7	-		
ADJUCCINE ANOLIODO CUALL DE INCRECTED DED THE DECLUDEMENTO IN THEIR ICO EC DEDODTO				

ADHESIVE ANCHORS SHALL BE INSPECTED PER THE REQUIREMENTS IN THEIR ICC-ES REPORTS

MECHANICAL ANCHORS SHALL BE INSPECTED PER THE REQUIREMENTS IN THEIR ICC-ES REPORTS

#### NOTES:

- 1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
- 2. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- 4. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.



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ENGINEER OF RECORD:

STEVEN J. EHRETT
MO STRUCTURAL LICENSE E-29025
MO CERTIFICATE OF AUTHORITY 000287

No.	Date	Description
	04/14/17	ISSUED FOR BID

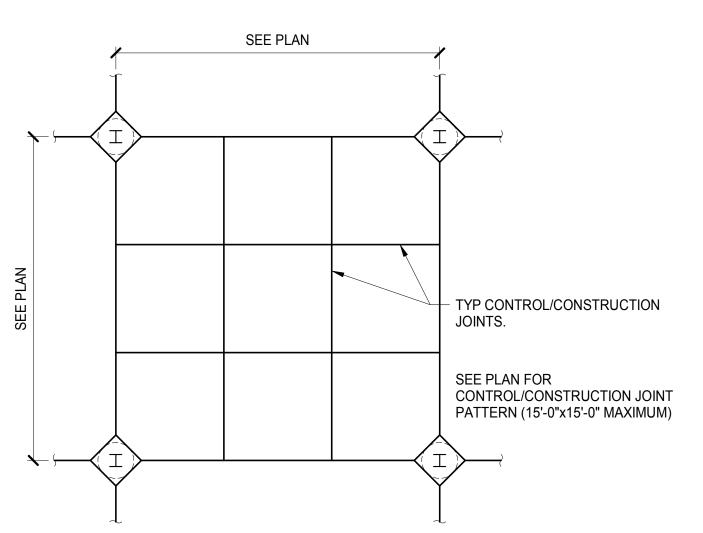
DRAWN BY: **TRN** 

PROJECT NUMBER: 16019

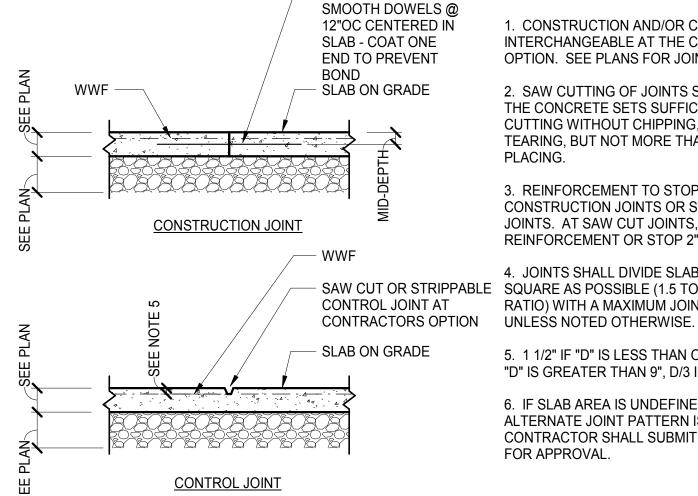
SHEET TITLE:

GENERAL NOTES

S-101



TYPICAL SLAB CONTROL AND CONSTRUCTION JOINT DETAIL S-102 N.T.S.



- 3/4"ØX16" LONG

1. CONSTRUCTION AND/OR CONTROL JOINTS ARE INTERCHANGEABLE AT THE CONTRACTORS OPTION. SEE PLANS FOR JOINT LOCATIONS.

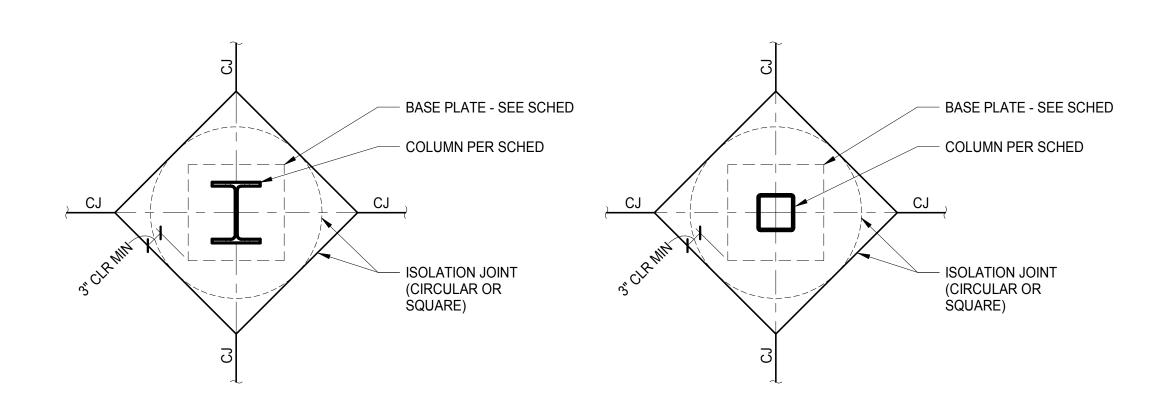
2. SAW CUTTING OF JOINTS SHALL BE DONE AS THE CONCRETE SETS SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING, BUT NOT MORE THAN 24 HOURS AFTER PLACING.

3. REINFORCEMENT TO STOP 2" CLEAR OF CONSTRUCTION JOINTS OR STRIPPABLE CONTROL JOINTS. AT SAW CUT JOINTS, CUT REINFORCEMENT OR STOP 2" CLEAR OF JOINT.

4. JOINTS SHALL DIVIDE SLAB INTO AREAS AS SAW CUT OR STRIPPABLE SQUARE AS POSSIBLE (1.5 TO 1 MAXIMUM L x W RATIO) WITH A MAXIMUM JOINT SPACING OF 15'-0",

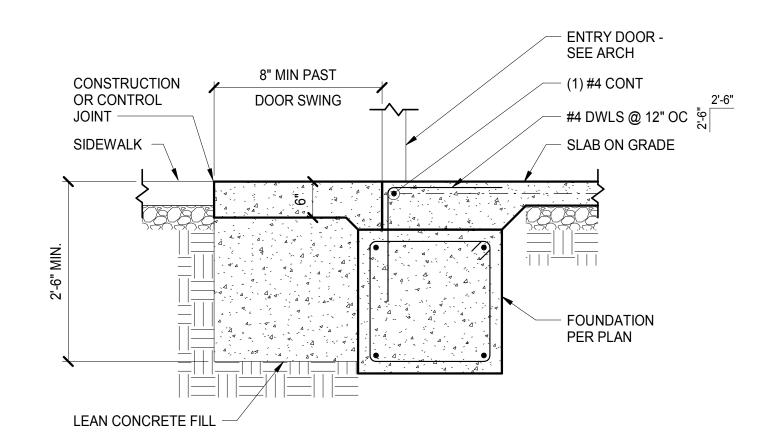
> 5. 1 1/2" IF "D" IS LESS THAN OR EQUAL TO 9", D/3 IF "D" IS GREATER THAN 9", D/3 IF REINFORCED.

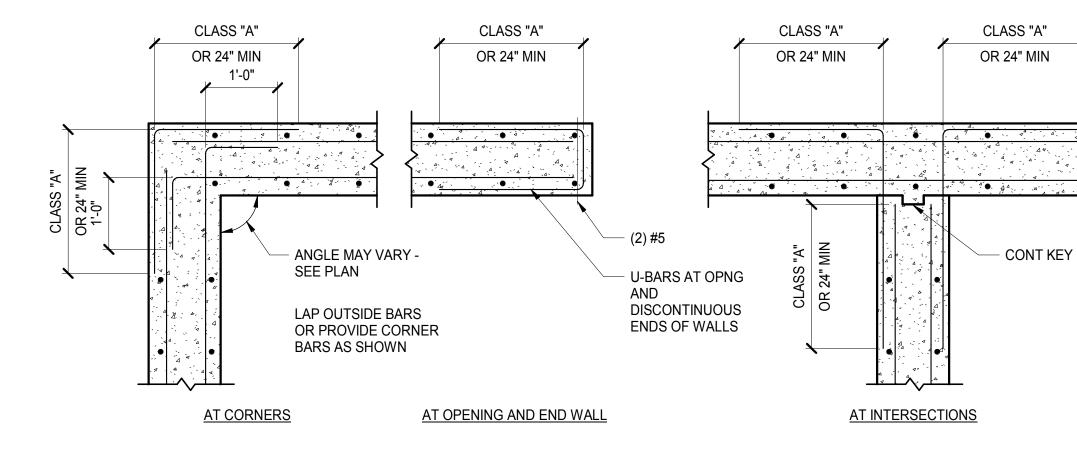
6. IF SLAB AREA IS UNDEFINED ON PLAN OR IF AN ALTERNATE JOINT PATTERN IS REQUESTED, THE CONTRACTOR SHALL SUBMIT A LOCATION PLAN FOR APPROVAL.



**2** TYPICAL SLAB ON GRADE DETAIL S-102 N.T.S.

(3) TYPICAL COLUMN ISOLATION JOINT DETAIL S-102 N.T.S.





SLAB FROST HEAVE PREVENTION DETAIL

N.T.S.

AND CORNERS OF CONTINUOUS FOOTINGS, GRADE BEAMS, AND WALLS DETAIL

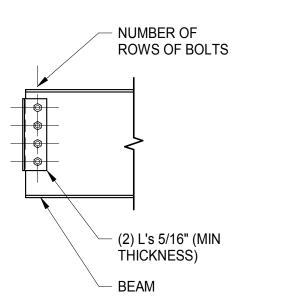
S-102 N.T.S.

# **BEAM CONNECTION SCHEDULE**

BEAM SIZE	MINIMUM NUMBER OF ROWS OF 3/4"Ø A-325N BOLTS (UNO)
W8 AND W10	2
W12 AND W14	3
W16	4
W18	5
W21	6
W24	7
W30	8
W33	9

1. TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.

NOTES:

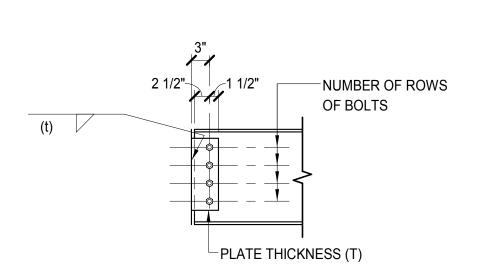


TYPICAL BOLTS PER 6 CONNECTION DETAIL S-102 3/4" = 1'-0"

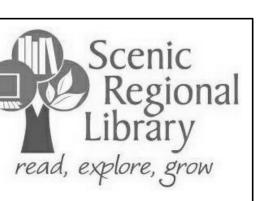
BEAM CONNECTION SCHEDULE				
BEAM SIZE	MINIMUM NUMBER OF ROWS OF 3/4"Ø A-325N BOLTS (UNO)	WELD SIZE (IN) MINIMUM	PLATE THICKNESS (T) (IN) MINIMUM	
W8 AND W10	2	1/4	5/16	
W12 AND W14	3	1/4	5/16	
W16	4	1/4	5/16	
W18	5	5/16	3/8	
W21	6	5/16	3/8	
W24 AND W27	7	3/8	7/16	
W30	8	3/8	7/16	
W33 AND W36	9	3/8	7/16	

NOTES:

1. TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.



7 TYPICAL SINGLE SHEAR TAB CONNECTION DETAIL S-102 3/4" = 1'-0"



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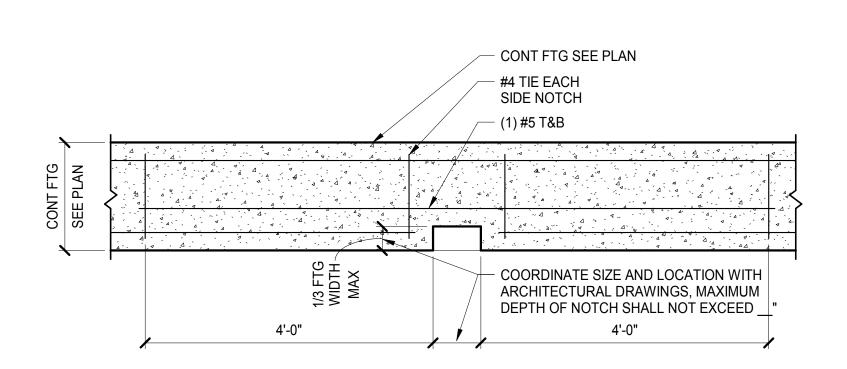
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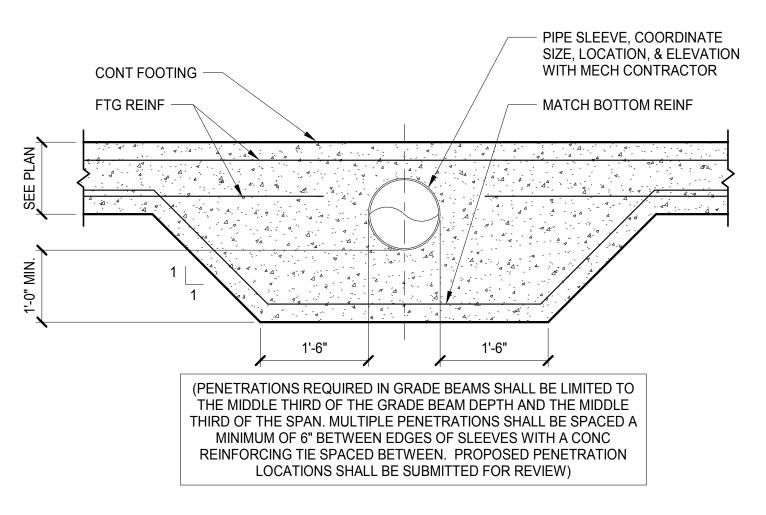
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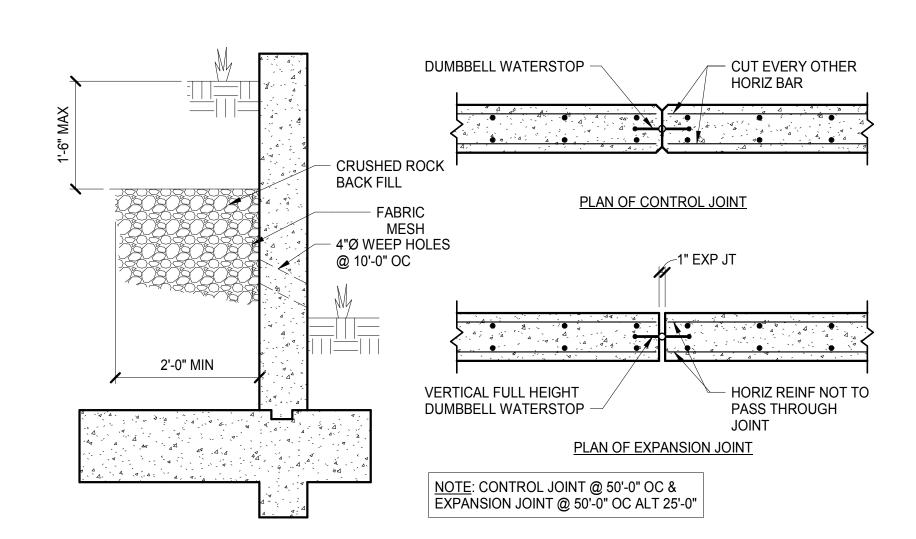
SHEET TITLE: TYPICAL DETAILS



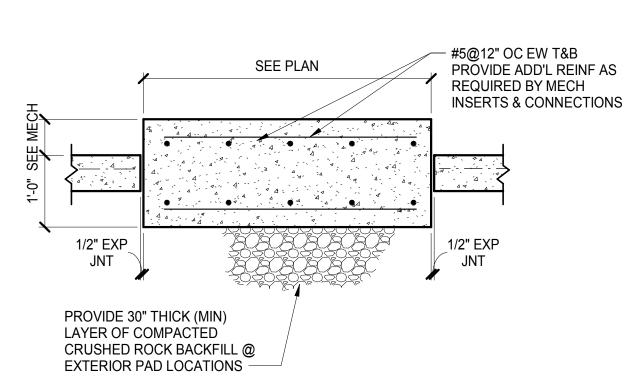
TYPICAL DOWN SPOUT 1 NOTCH AT CONTINUOUS FOOTING DETAIL S-103 N.T.S.



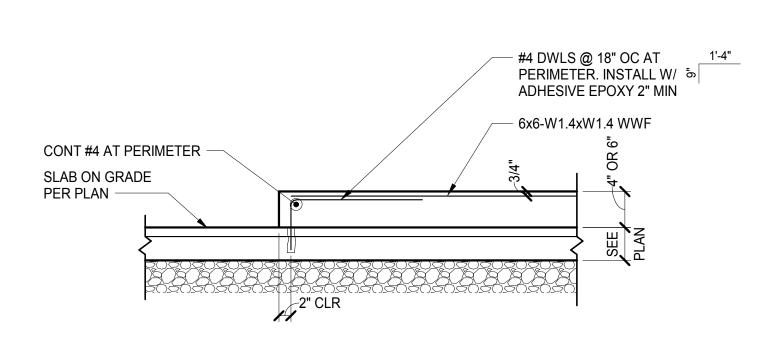
2 TYPICAL PIPE SLEEVE THRU CONTINUOUS FOOTING DETAIL N.T.S.



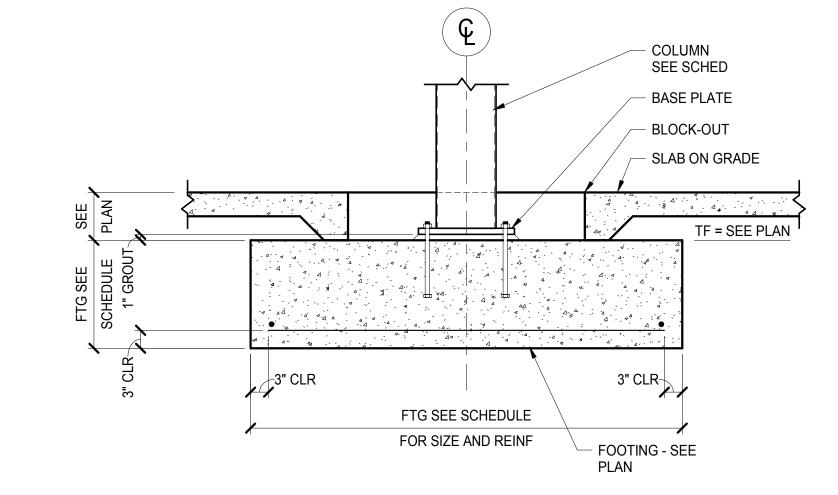
3 TYPICAL RETAINING WALL DETAILS
S-103 N.T.S.



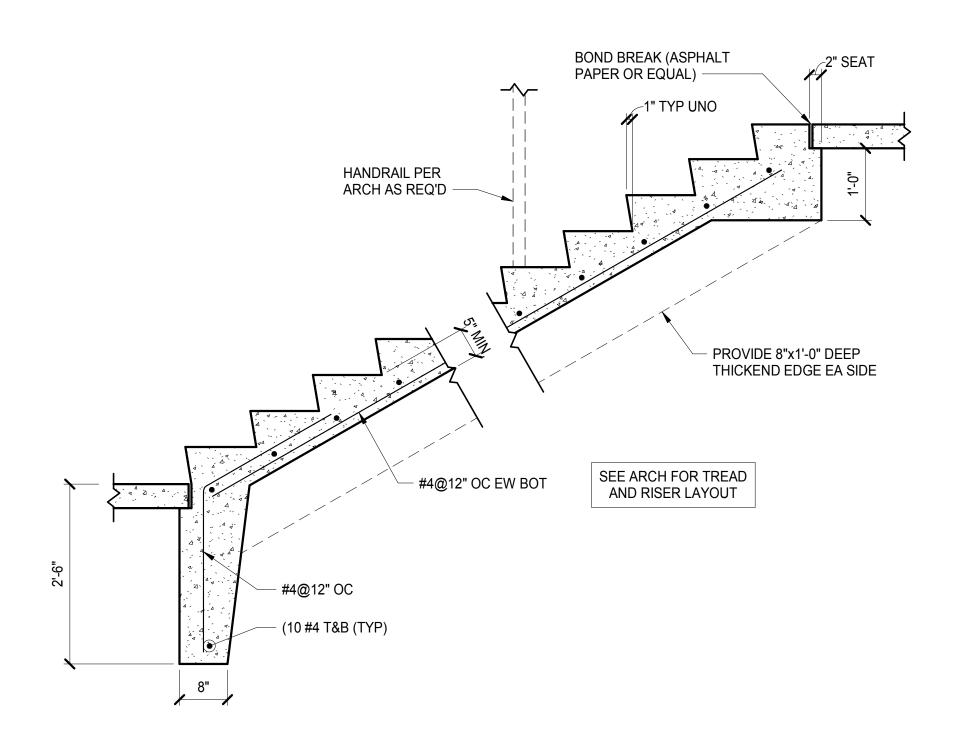
TYPICAL MECHANICAL PAD ON GRADE DETAIL
S-103 N.T.S.



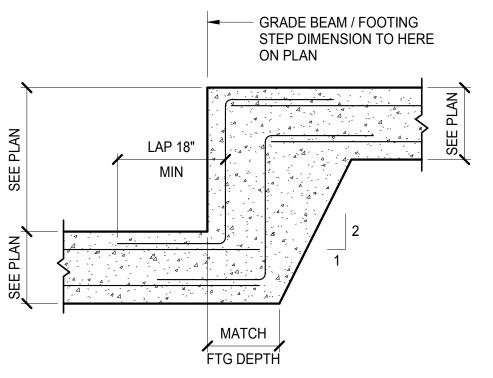
TYPICAL HOUSEKEEPING PAD ON CONCRETE SLAB ON GRADE
N.T.S.



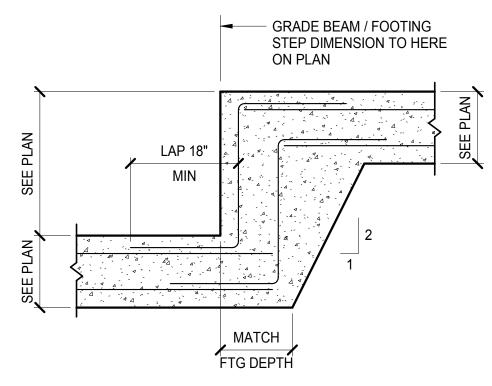
6 TYPICAL INTERIOR COLUMN AT SPREAD FOOTING DETAIL N.T.S.



7 TYPICAL INTERIOR OR EXTERIOR CONCRETE STAIR ON GRADE N.T.S.



TYPICAL STEP GRADE 8 BEAM OR FOOTING DETAIL S-103 N.T.S.





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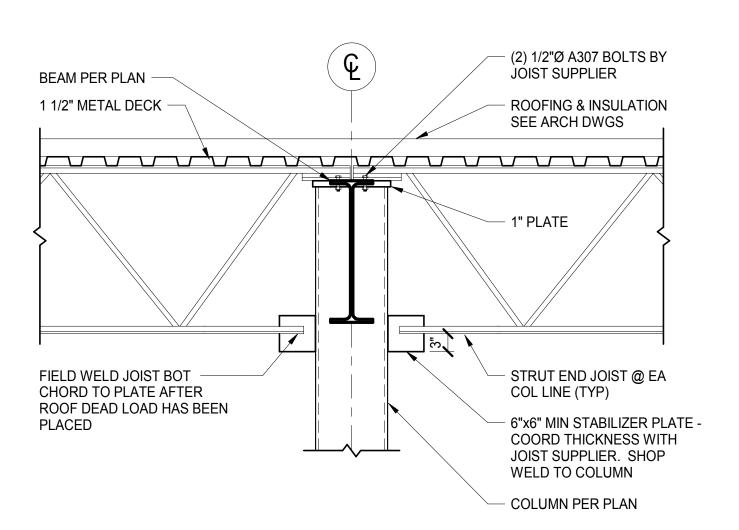
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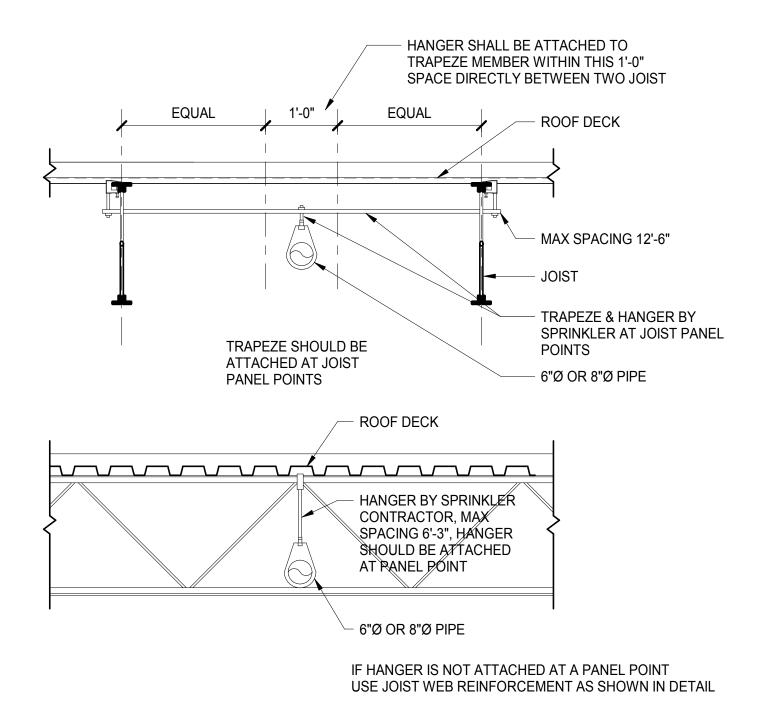
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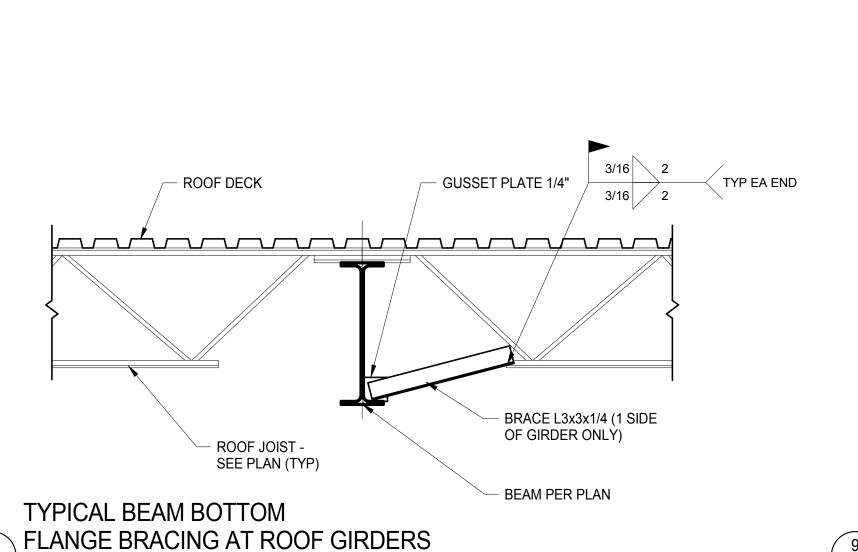
> SHEET TITLE: TYPICAL DETAILS



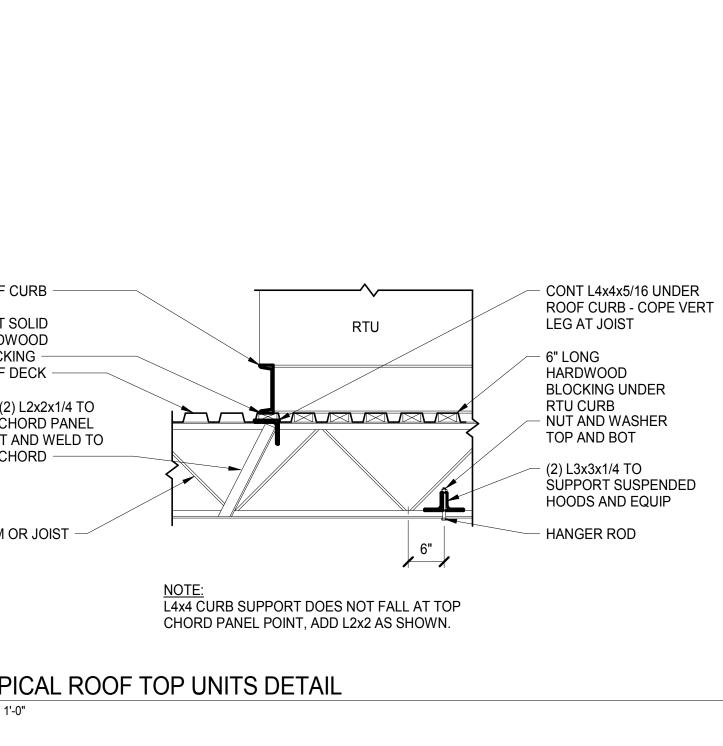
1 TYPICAL STRUT END JOIST DETAIL AT HSS COLUMN DETAIL S-104 N.T.S.



4 TYPICAL 6" DIA or 8" DIA SPRINKLER PIPES HANGER DETAIL

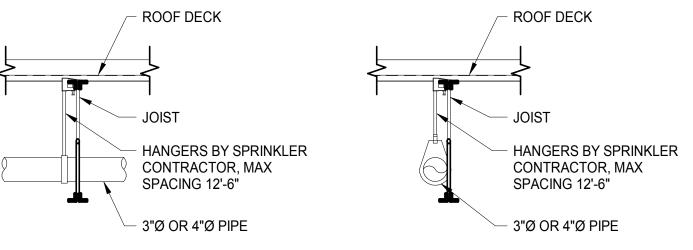


S-104 3/4" = 1'-0"



**ROOF CURB CONT SOLID** HARDWOOD **BLOCKING** ROOF DECK ADD (2) L2x2x1/4 TO BOT CHORD PANEL POINT AND WELD TO TOP CHORD **BEAM OR JOIST** 

TYPICAL ROOF TOP UNITS DETAIL S-104 3/4" = 1'-0"



HANGERS SHALL BE ATTACHED AT JOIST PANEL POINTS OTHERWISE USE JOIST WEB REINFORCEMENT AS SHOWN IN DETAIL

ALL JOIST BRIDGING SHALL BE LOCATED SUCH THAT THE LEADING EDGE OF ANY BRIDGING MEMBER IS A MINIMUM OF 1'-0 (MEASURED HORIZONTALLY) FROM THE CENTER LINE OF ANY SPRINKLER LOCATED ABOVE THE BOTTOM CHORD OF BAR JOISTS. COORDINATE EXACT LOCATIONS OF BRIDGING WITH THE DIMENSIONAL INFORMATION SHOWN ON THE AUTOMATIC SPRINKLER CONSTRUCTION DRAWINGS PREPARED BY VARIATION FROM THIS MINIMUM CLEARANCE WILL BE PERMITTED.

— L 4x4

PANEL POINT

ZONE (TYP)

- MAXIMUM TOTAL ALLOWED LOAD WITHIN PANEL

POINT ZONE. THEN THE MAXIMUM LOAD CAN BE

IS 50LBS UNLESS HUNG WITH IN THE PANEL

TYPICAL 3" DIA OR 4" DIA SPRINKLER PIPES HANGER DETAIL N.T.S.

**TYPICAL JOIST WEB REINFORCEMENT DETAIL** 

6 TYPICAL MISCELLANEOUS HANGERS DETAIL N.T.S.

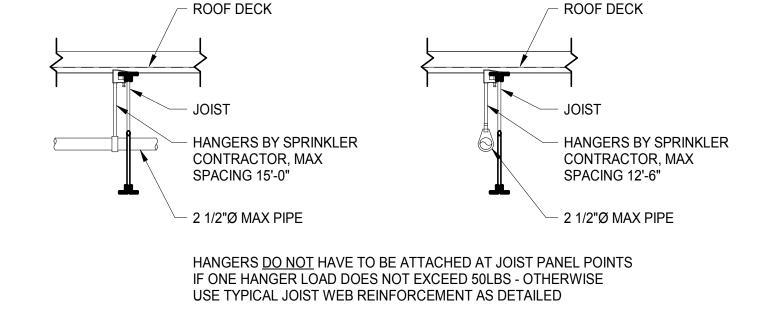
PANEL

ADD L 2x2x1/4 TO

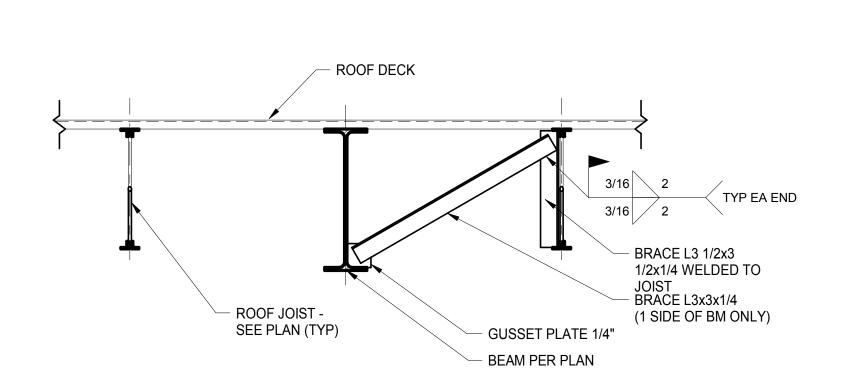
**BOT CHORD PANEL** 

PT & WELD TO TOP

CHORD.

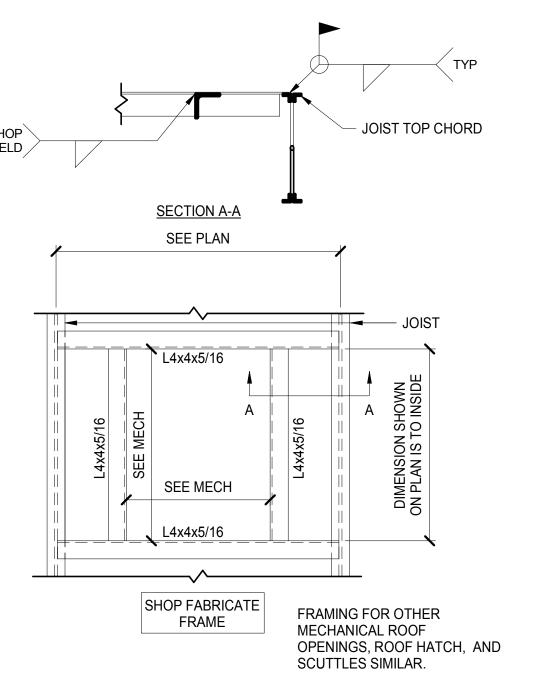


TYPICAL 2 1/2" DIA MAX SPRINKLER PIPES HANGER DETAIL
N.T.S.

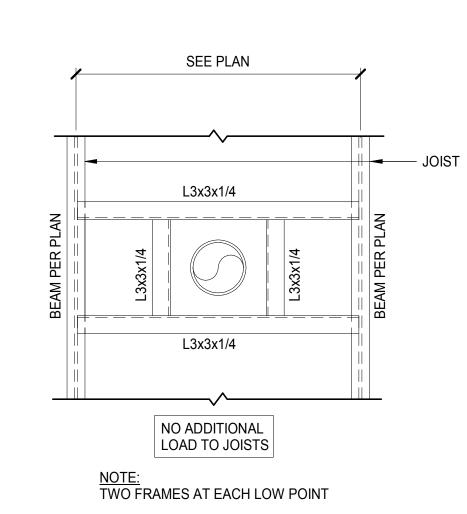


BRACE ANGLES REQUIRED WHERE SHOWN ON THE FRAMING PLANS. ANGLES ARE TO BE EQUALLY SPACED WITHIN THE BEAM SPAN.





10 TYPICAL RTU ROOF FRAMING DETAIL S-104 3/4" = 1'-0"



TYPICAL FRAME FOR 11 ROOF DRAIN AND OVERFLOW DETAIL S-104 3/4" = 1'-0" (OTHER OPENINGS SIMILAR)

read, explore, grow

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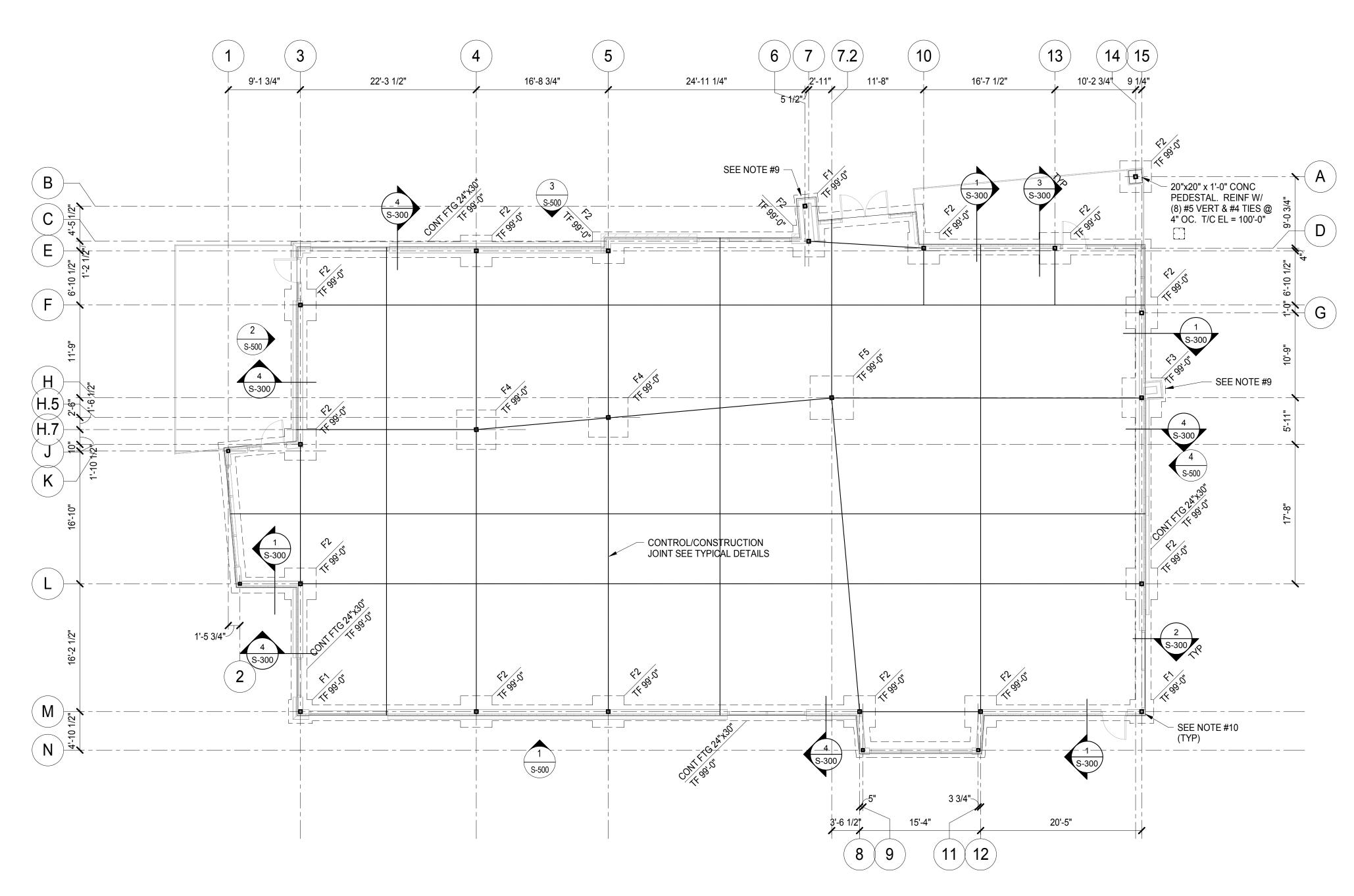
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Date Description 04/14/17 ISSUED FOR BID

DRAWN BY: Author PROJECT NUMBER: 16019

SHEET TITLE: **TYPICAL DETAILS** 

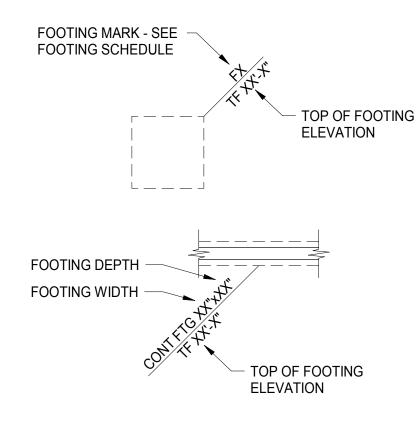


1 FIRST FLOOR FOUNDATION PLAN

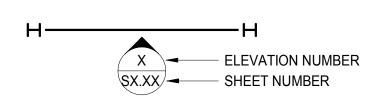
S-201 1/8" = 1'-0"

#### **FOUNDATION NOTES:**

- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. FINISH FLOOR ELEVATION = 100'-0" (U.S.G.S. DATUM = 948.50).
- SLAB CONSTRUCTION: 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE ON 10 MIL. VAPOR RETARDER ON 6" MINIMUM COMPACTED GRANULAR FILL. REINFORCE SLAB WITH ONE LAYER 6x6-W2.1xW2.1 WWF CENTERED IN SLAB.
- 6. "TF" NOTED ON PLAN INDICATES TOP OF FOOTING ELEVATION.
- 7. "TC" NOTED ON PLAN INDICATES TOP OF CONCRETE ELEVATION.
- 8. "TW" NOTED ON PLAN INDICATES TOP OF WALL ELEVATION.
- 9. EXTEND FOOTING AND SLAB FOR WALL FRAMING. REINF EXTENSION W/ #5@12" OC T&B.
- 10. PROVIDE CORNER BARS TO MATCH SLAB AND FOOTING REINFORCEMENT. LAP CONTINUOUS #4 SLAB BAR @ OUTSIDE CORNER OF COLUMN. PROVIDE ASPHALTIC COATING TO ALL EXPOSED BASE PLATES BELOW GRADE.

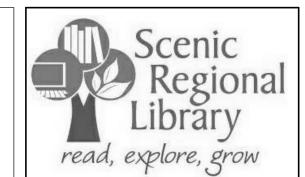


# TYPICAL FOOTING DESIGNATION



## TYPICAL BRACING DESIGNATION

	FOOTING SCHEDULE					
MARK	SIZE	REINFORCING EACH WAY TOP & BOTTOM UNO	REMARKS			
F1	3'-0"x3'-0"x2'-6"	(4) #5 EW				
F2	4'-0"x4'-0"x2'-6"	(5) #5 EW				
F3	5'-0"x5'-0"x2'-6"	(6) #5 EW				
F4	5'-0"x5'-0"x1'-3"	(6) #5 EW				
F5	5'-6"x5'-6"x1'-3"	(6) #5 EW				



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STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287

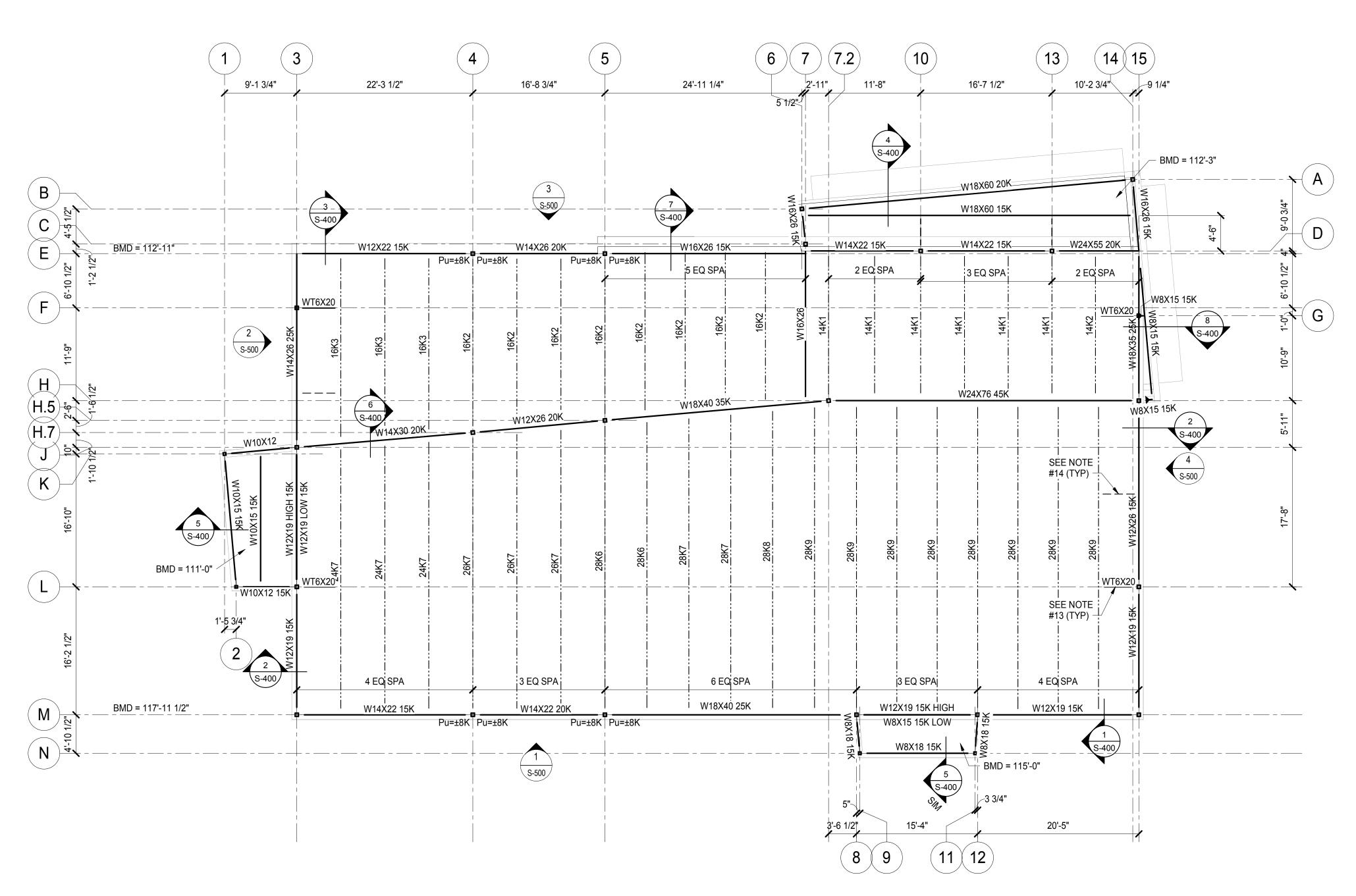
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PROJECT NUMBER: 16019

SHEET TITLE:
FIRST FLOOR FOUNDATION PLAN

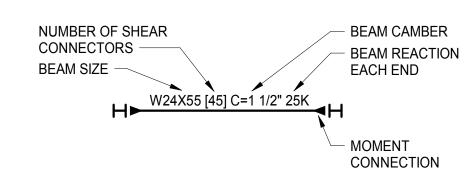
S-201



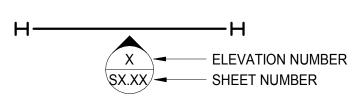


#### FRAMING NOTES:

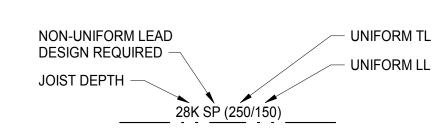
- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. SEE TYPICAL BEAM DESIGNATION FOR MOMENT CONNECTION SYMBOL.
- 5. SEE TYPICAL VERTICAL BRACING DESIGNATION FOR BRACING SYMBOL
- 6. BOTTOM OF METAL DECK ELEVATION SHOWN ON PLAN.
- 7. ROOF CONSTRUCTION: 1 1/2" x 20 GAUGE WIDE RIB PAINTED METAL DECK OVER STEEL FRAMING. WELD METAL DECK TO ALL SUPPORTING STEEL WITH 5/8" DIA PUDDLE WELDS IN A 36/7 PATTERN. SIDE LAP OF METAL DECK TO BE ATTACHED WITH (3) #10 SELF-DRILLING SCREWS FOR
- 8. DESIGN ROOF JOISTS FOR A NET UPLIFT OF 18 PSF OVER ENTIRE ROOF AND A NET WIND UPLIFT OF 20 PSF OVER A 7'-0" WIDE STRIP AROUND PERIMETER.
- 9. BEAM CONNECTIONS SHALL BE DESIGNED TO TRANSFER AXIAL LOADS NOTED "P=\_\_K" ON
- 10. STRUT JOIST TO OCCUR ON ALL COLUMN CENTER LINES UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS.
- 11. PROVIDE HORIZONTAL JOIST BRIDGING SPACED PER LATEST S.J.I. (U.N.O.).
- 12. "BMD" NOTED ON PLAN INDICATES BOTTOM OF METAL DECK ELEVATION.
- 13. WT6x20 WELD TO COLUMN. COPE AND LAP ONTO JOIST TOP CHORD. WELD DECK TO WT W/ 5/8"Ø PUDDLE WELDS @ 6" OC
- 14. SEE TYPICAL DETAILS, SHEET S-104, FOR BEAM BRACING DETAILS.



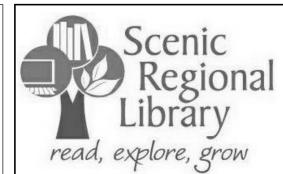
#### TYPICAL BEAM DESIGNATION



# TYPICAL BRACING DESIGNATION



# TYPICAL JOIST DESIGNATION



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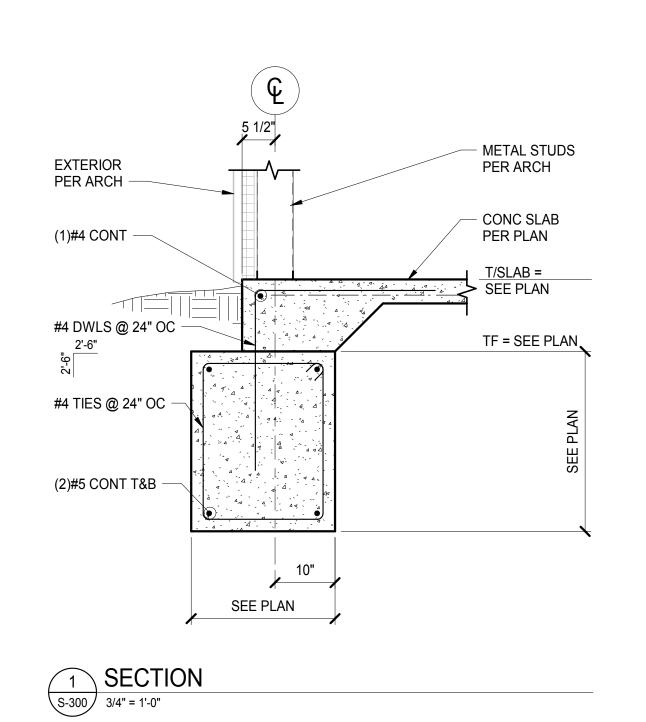
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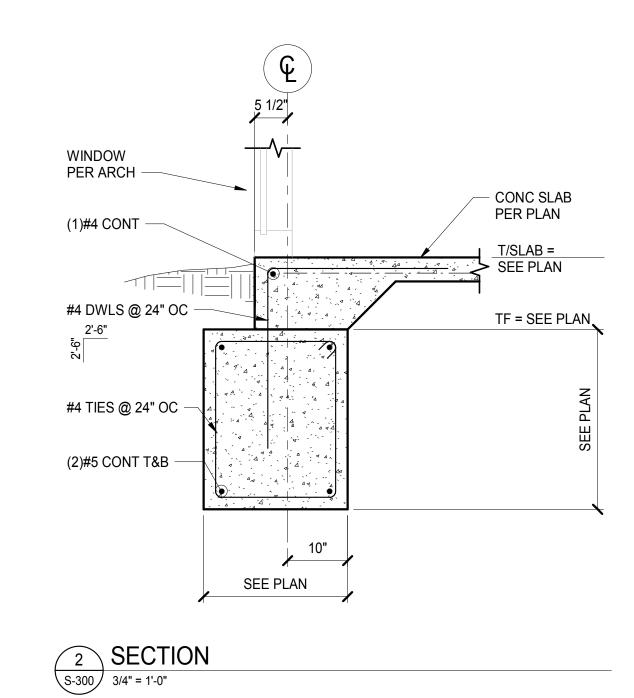
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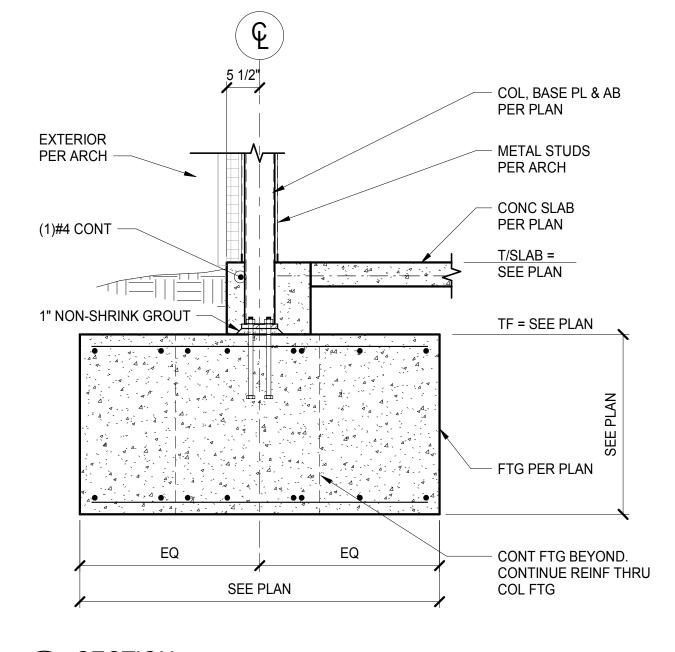
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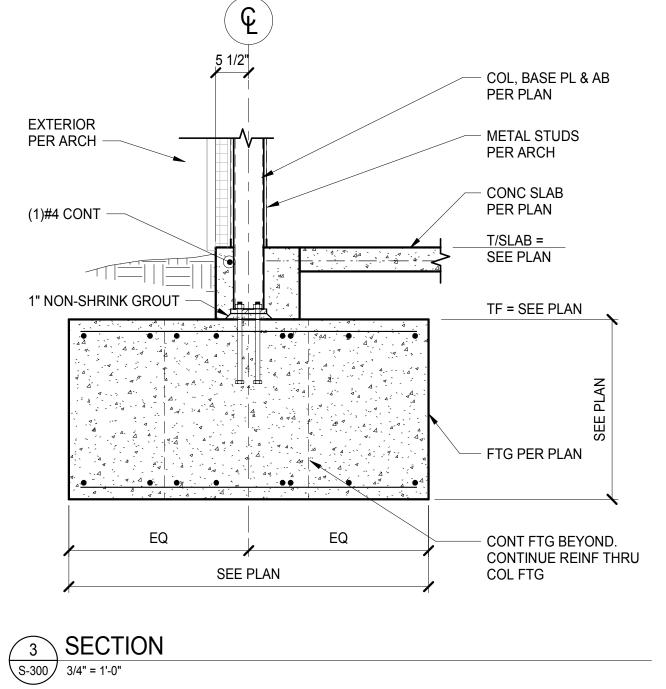
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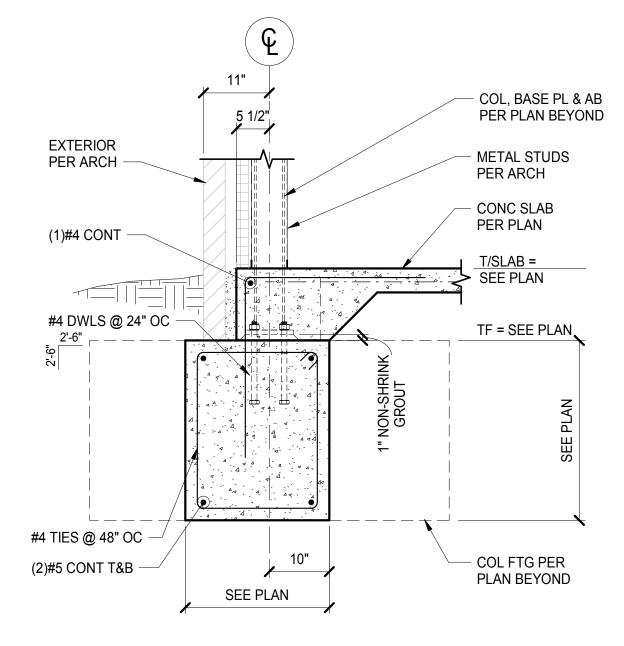
SHEET TITLE: ROOF FRAMING PLAN

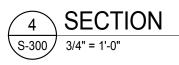












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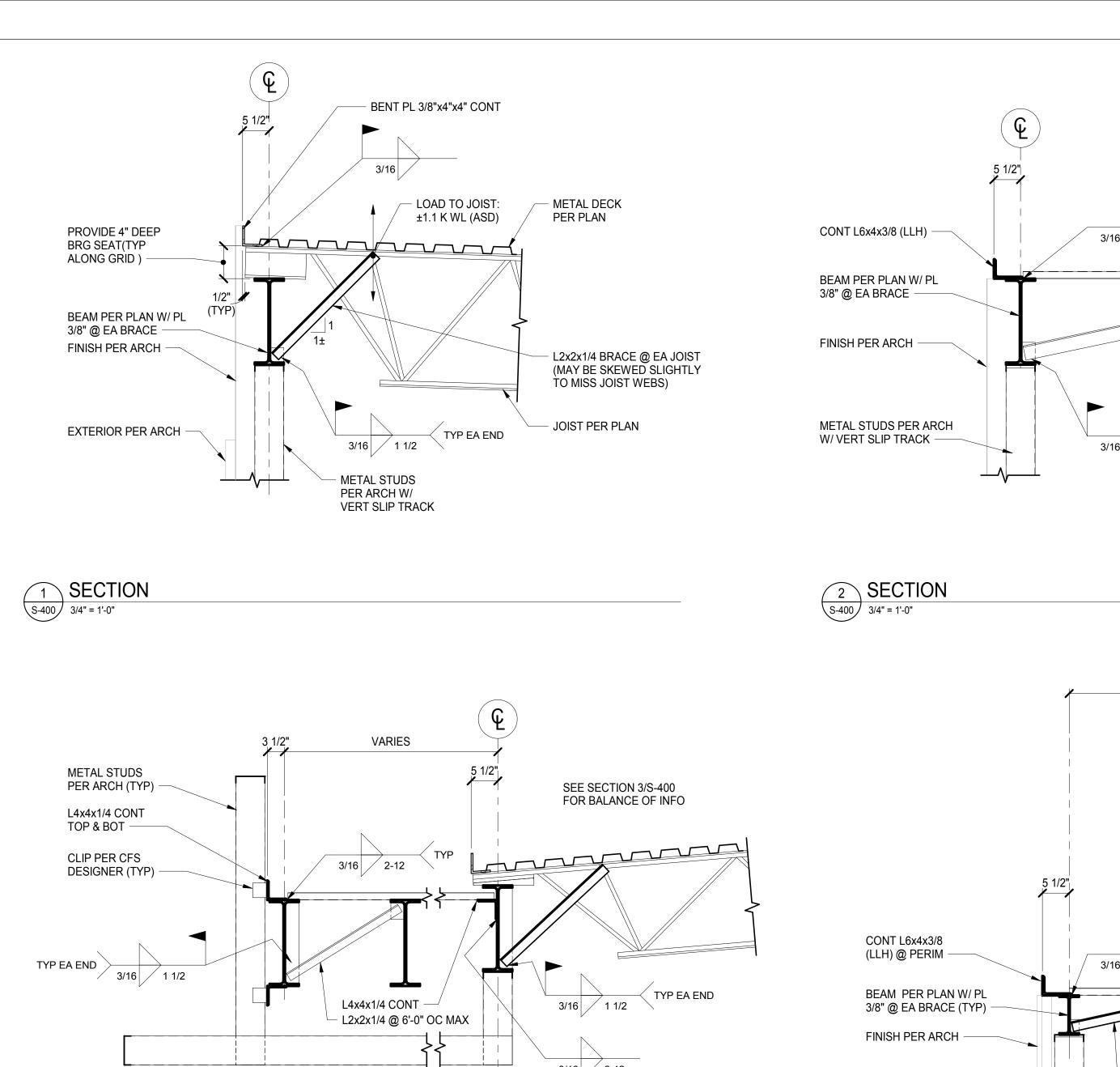
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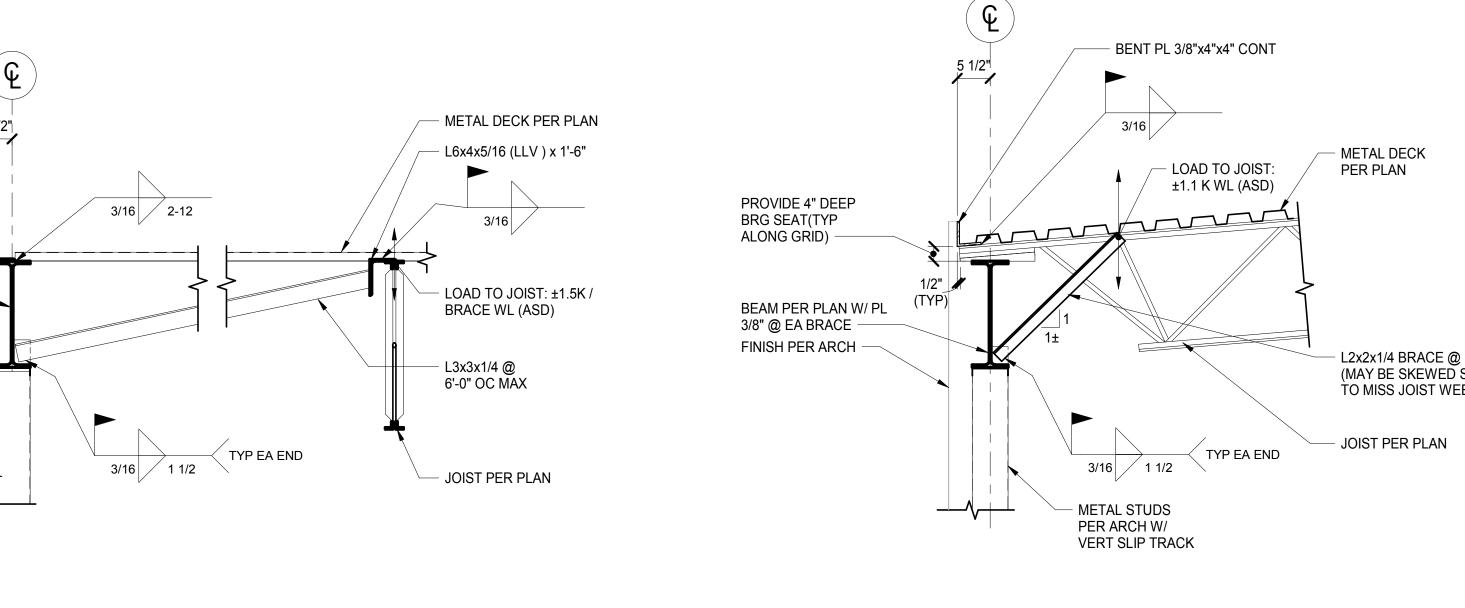
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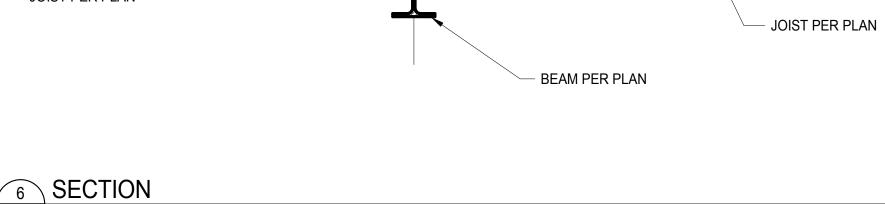
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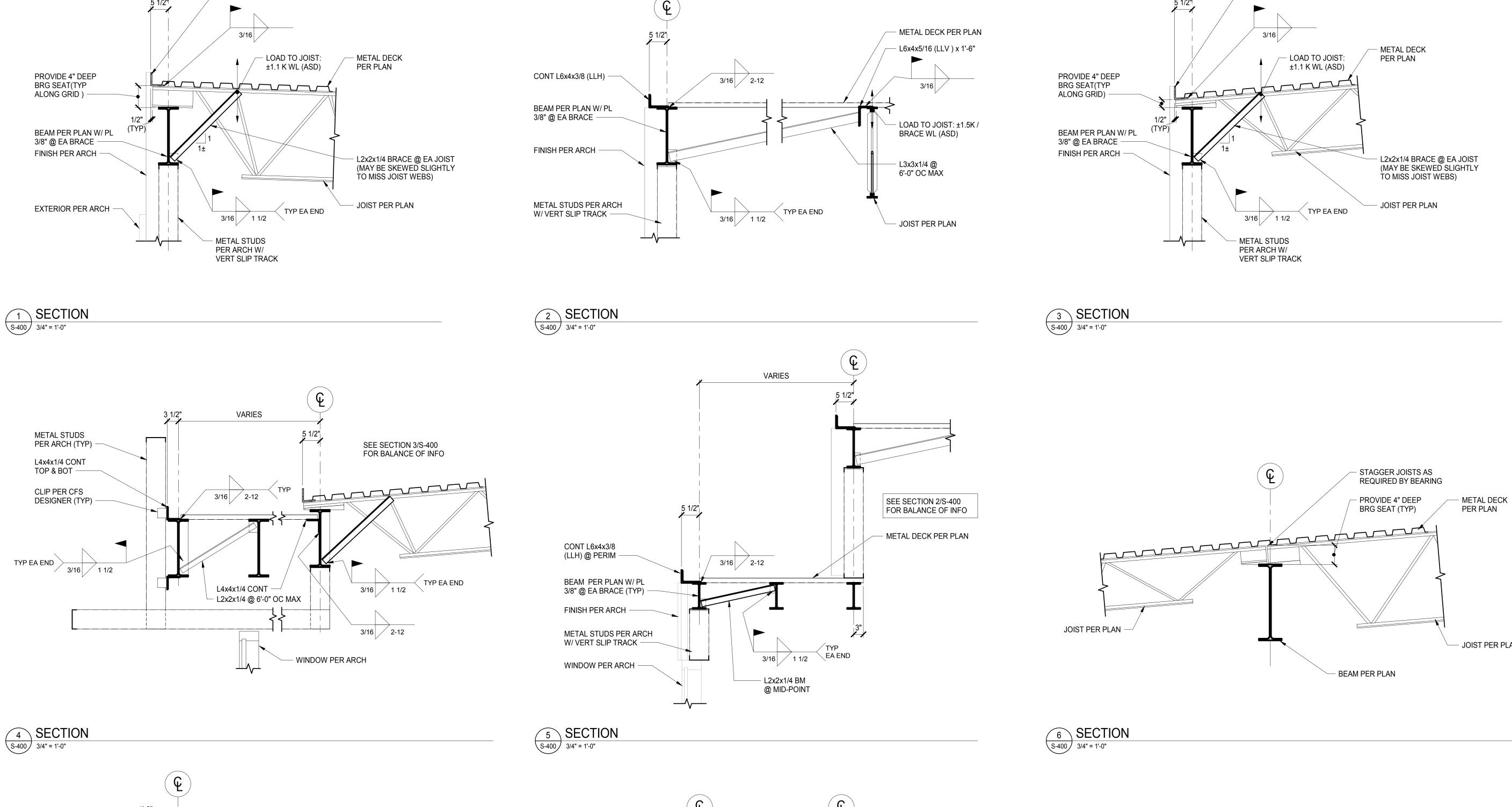
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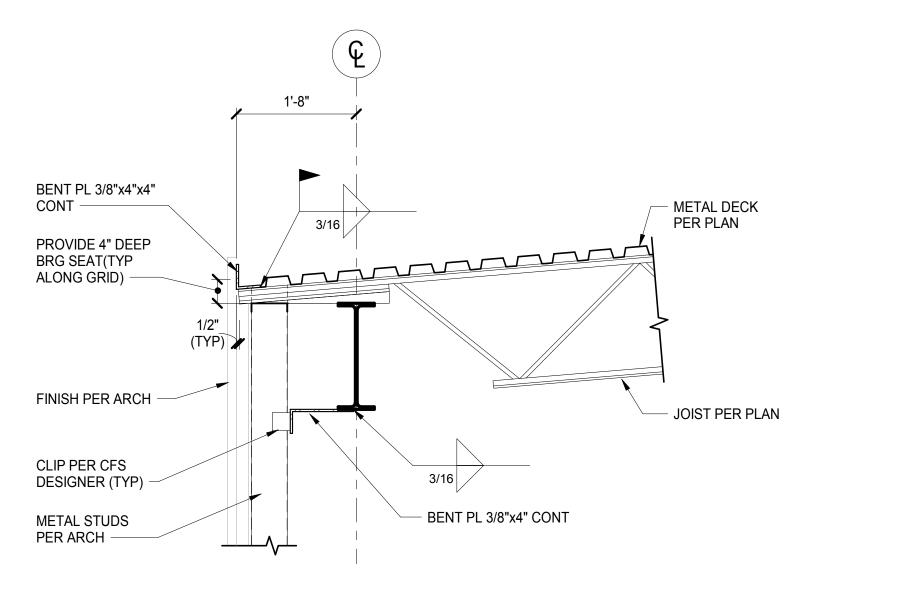
SHEET TITLE: FOUNDATION SECTIONS

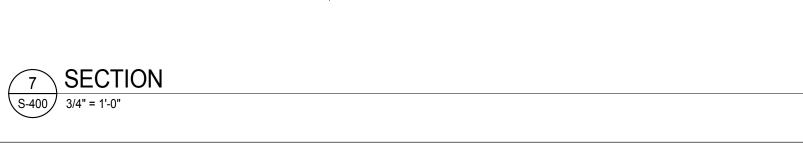


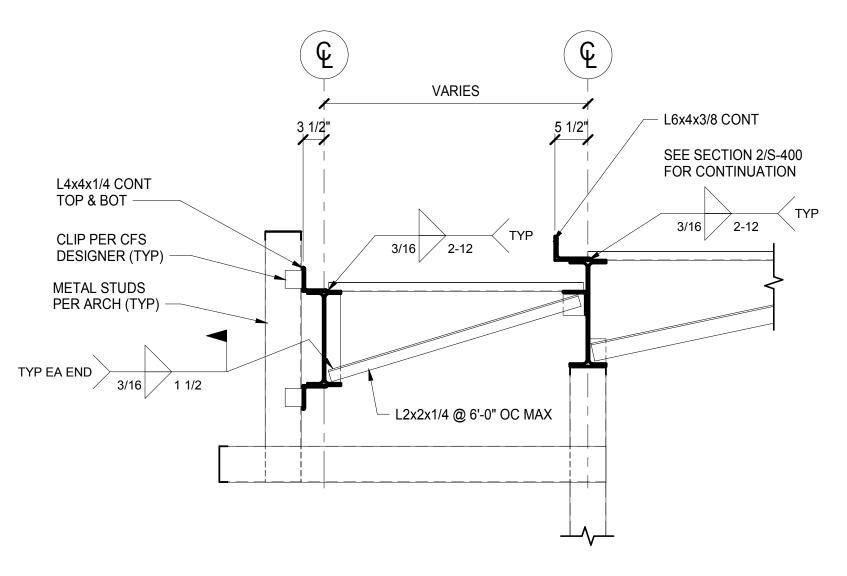


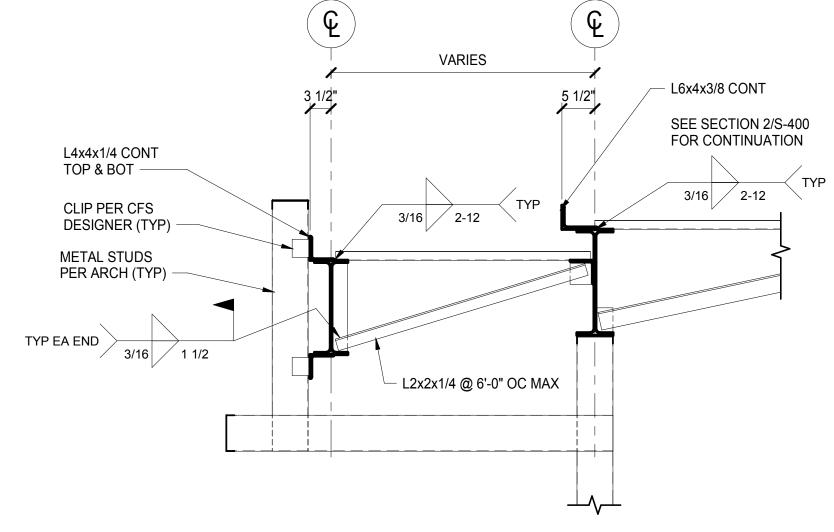












8 SECTION

S-400 3/4" = 1'-0"

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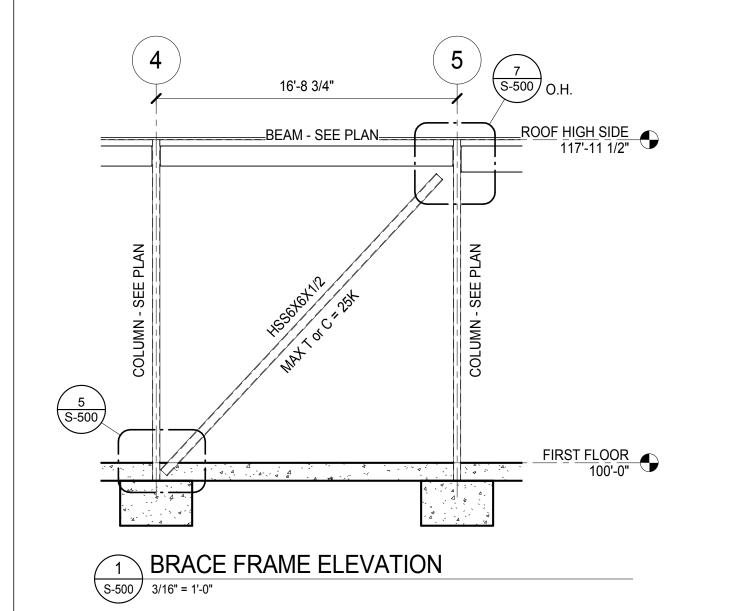
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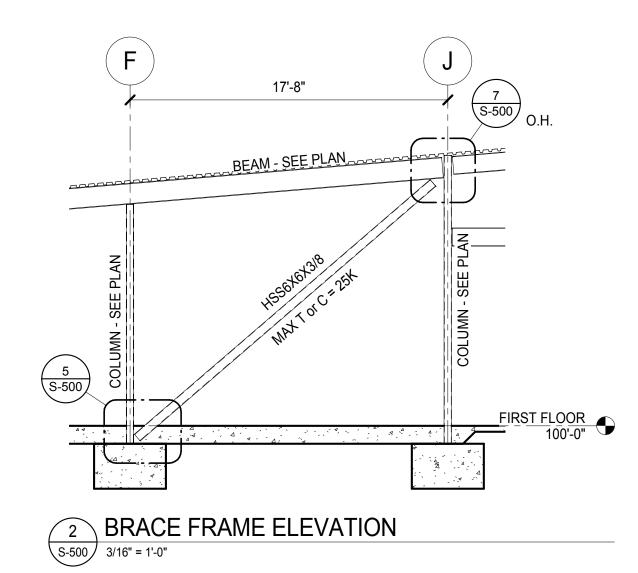
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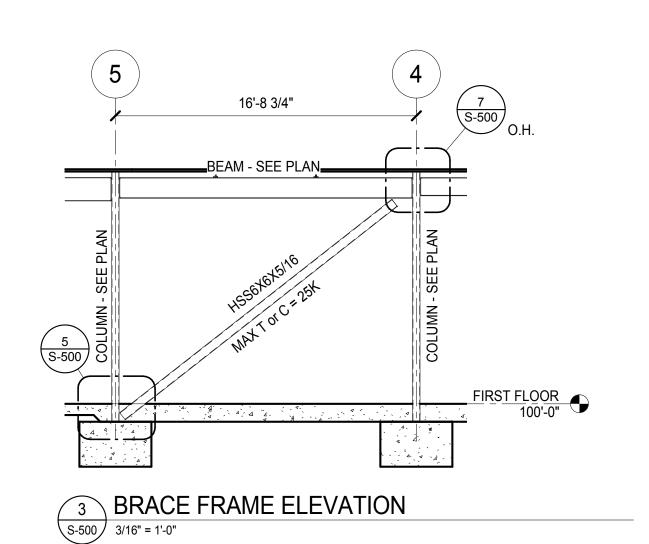
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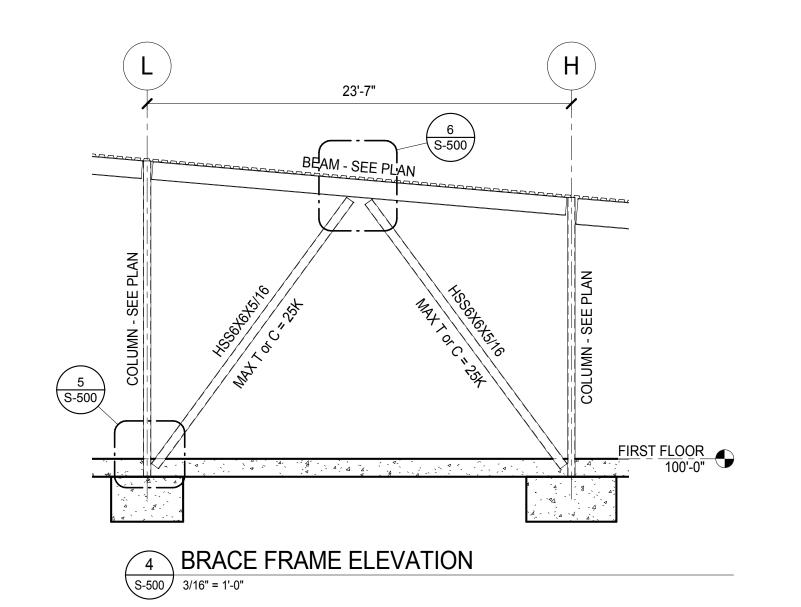
SHEET TITLE: FRAMING SECTIONS

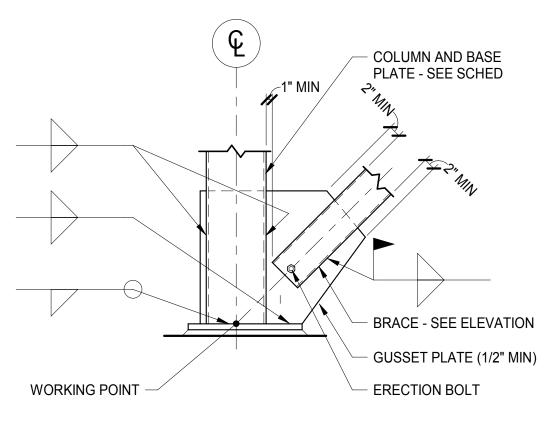
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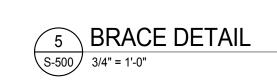


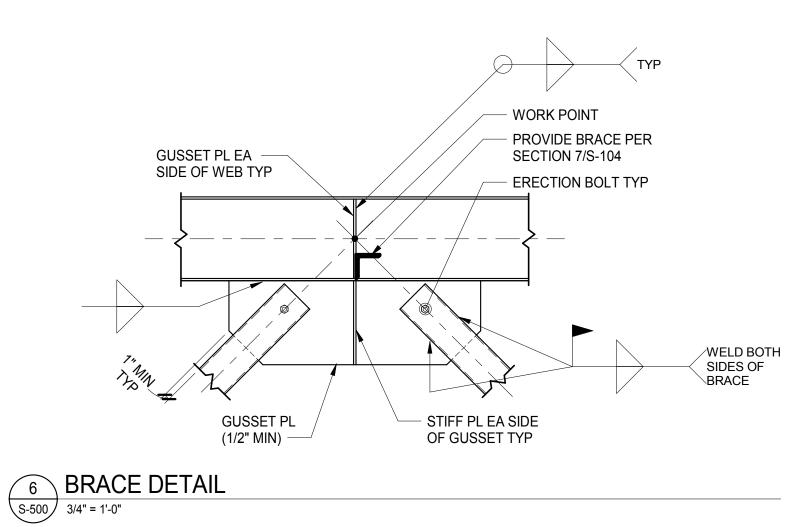


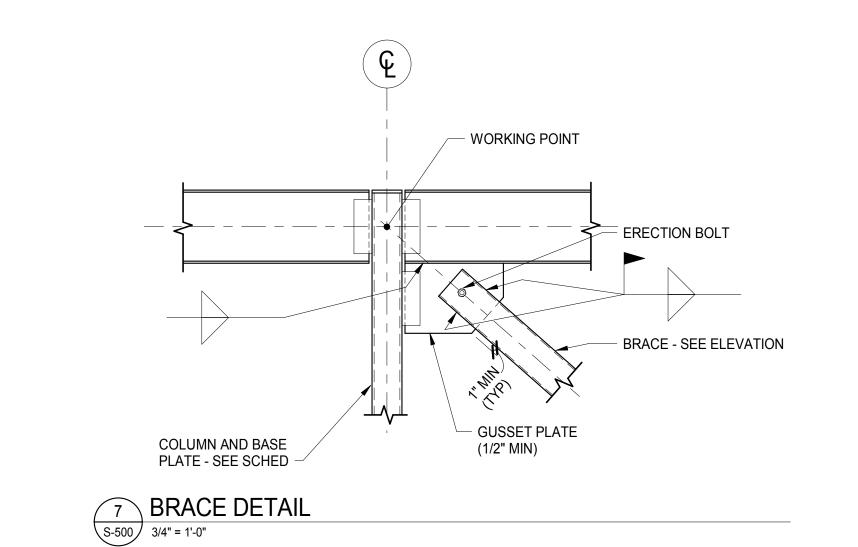




NOTE: SEE BRACING ELEVATION FOR ORIENTATION OF GUSSET PLATE.







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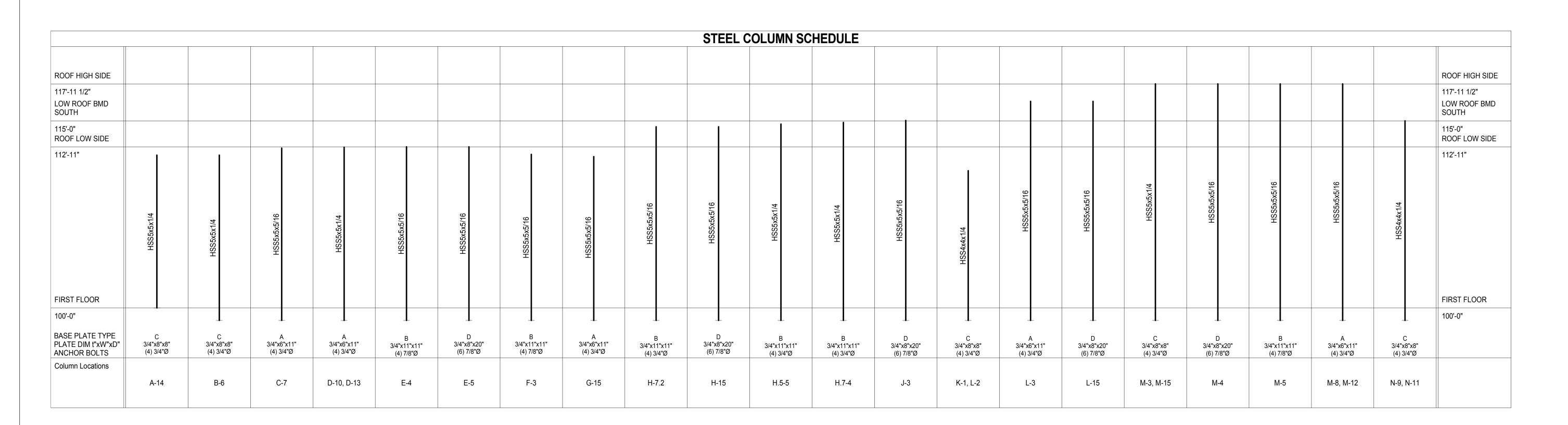
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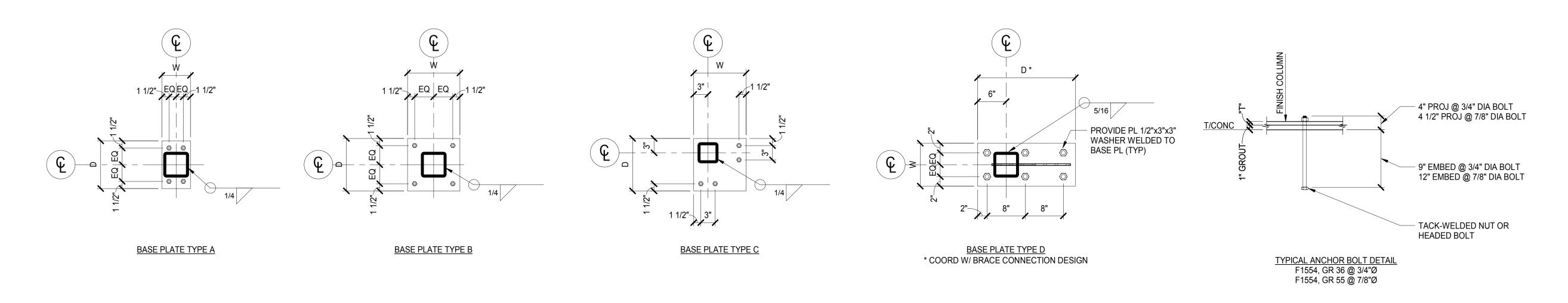
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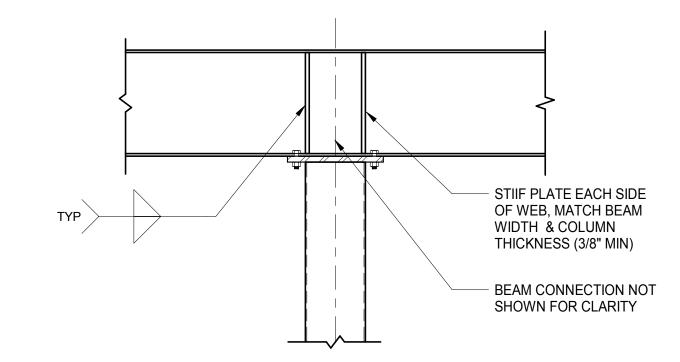
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SHEET TITLE: BRACE FRAME ELEVATIONS





# TYPICAL BASE PLATE DETAILS



TYPICAL CANTILEVER BEAM DETAIL WITH COLUMN BELOW



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COLUMN SCHEDULE & DETAILS

#### **GENERAL NOTES**

- 1. THE SPACE ALLOWED FOR MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS. DUCTWORK SHALL BE HUNG AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE UNLESS INDICATED OTHERWISE. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING, COORDINATION, OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
- 3. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS"
- 4. PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
- 5. REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTALLER'S GUIDE. CONTRACTOR TO SUBMIT DRAWINGS SHOWING ROUTING. SEE SPECIFICATIONS.
- 6. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 48" A.F.F. TO THE TOP OF THERMOSTAT UNLESS NOTED OTHERWISE. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
- 7. INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- 9. THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
- 10. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE
- 11. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
- 12. CAULK ALL PENETRATIONS THRU WALLS TO MINIMIZE SOUND PENETRATION THRU WALLS.

AIR HANDLING UNIT.

- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
- 14. ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO
- 15. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.

#### **GENERAL NOTES (AIR SIDE)**

- 1. NOTE, ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CONTRACTOR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
- 2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE 24.
- 3. 90° DUCT ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKNESS TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL.
- 4. ALL ELBOWS SHALL BE SUPPLIED WITH TURNING VANES, WHETHER SHOWN ON DOCUMENTS OR NOT.
- 5. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF THE DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS
- 6. RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A STANDARDS AND AT EACH CHANGE IN DIRECTION
- 7. PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT THOSE LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVICE IN THESE CASES.)
- B. PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
- 9. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
- 10. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PLENUMS ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS OR PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTORIZED OR AUTOMATIC DAMPER BLADES AND LINKAGES.
- 11. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
- 12. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
- 13. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS, OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
- 14. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWN ON THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTIONS ON THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP AIR UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS. EXHAUST FANS, SUPPLY FANS, AND DUST COLLECTOR.
- 15. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH CONNECTIONS TO THE MAIN DUCT.
- 16. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.
- 17. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.
- 18. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED AS A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN THE PARTITION ABOVE THE CEILING.
- 19. DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE AREA. WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEET METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER.
- 20. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM, ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.

**DUCT SIZE DESIGNATION:** 

FLAT OVAL DUCT

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED.

SHOWN IS FREE AREA SIZE,

24" x 12" RA

1ST FIGURE SIDE SHOWN. (SIZE

ALLOWANCE HAS NOT BEEN MADE

FOR INTERIOR INSULATION WHERE

**DUCT SYSTEM TYPE** 

SA - SUPPLY AIR

RA - RETURN AIR

EA - EXHAUST AIR

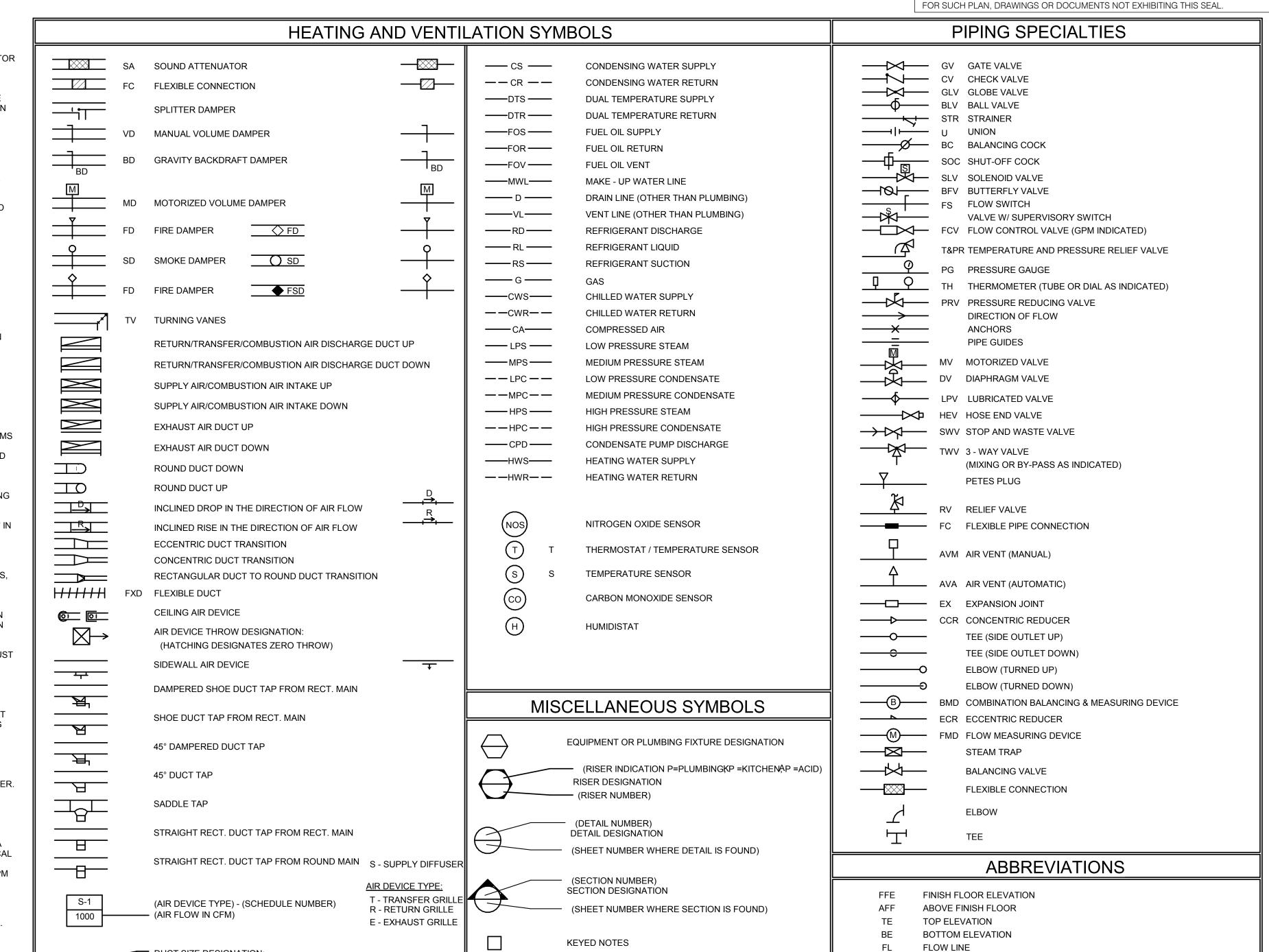
TA - TRANSFER AIR

OA - OUTDOOR AIR

AFM

CVR

- 21. ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
- 22. DIRECTIONAL ARROWS ON AIR DEVICES INDICATE THROWS FOR AIR DEVICE. VERIFY PROPER ADJUSTMENT OF THROW DEFLECTION VANES OF ALL AIR DEVICES PRIOR TO BEGINNING BALANCING. WHERE NO ARROWS SHOW, THROW SHALL BE 4-WAY.
- 23. ALL BATHROOM EXHAUST DUCTWORK SHALL BE EXTERNALLY
- 24. EXPOSED GALVANIZED DUCTWORK SHALL BE PAINTABLE. GENERAL CONTRACTOR TO PAINT ALL EXPOSED DUCTWORK. FINAL COLOR TO BE APPROVED BY THE ARCHITECT.



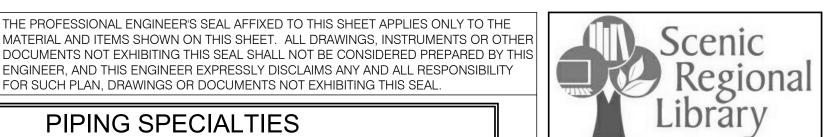
REVISIONS

**NEW CONNECTION** 

AIR FLOW MEASURING STATION

CONSTANT VOLUME REGULATOR

AP ACCESS PANEL



THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE

ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY

INVERT ELEVATION

PLUMBING CONTRACTOR

ELECTRICAL CONTRACTOR

HALON SUB-CONTRACTOR

MECHANICAL CONTRACTOR

FIRE PROTECTION CONTRACTOR

KITCHEN EQUIPMENT CONTRACTOR

TEMPERATURE CONTROL CONTRACTOR

GENERAL CONSTRUCTION CONTRACTOR

AUTOMATIC CONTROL SUB-CONTRACTOR

**HEATING & AIR CONDITIONING CONTRACTOR** 

CENTER LINE

GC

HAC

PC

ACS

FPC

KEC

MC

TCC

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DAVID E. LAUVER MO. LICENSE NO. 2007002812 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Date Description 04/14/17 ISSUED FOR BID

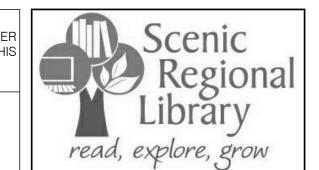
DRAWN BY: **DEV** 

PROJECT NUMBER: **16-1161.02** LEGEND, SYMBOLS, NOTES, &

**ABBREVIATIONS - MECHANICAL** 

1 FLOOR PLAN - FIRST FLOOR - MECHANICAL M-201 1/8" = 1'-0"

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.



#### **GENERAL NOTES**

1 SEE M-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

## **KEYED NOTES**

- 1 PROVIDE A RETURN BOOT. SEE DETAILS FOR MORE
- INFORMATION.
- ROUTE DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH
- WALL WITH BOTTOM OF DUCT AT 14'-3 1/2" AFF. MOUNT SLOT DIFFUSER TO SIDEWALL OF SOFFIT. SEE SECTIONS FOR MOUNTING HEIGHT.
- 4 SLOPE DUCT WITH ROOF SLOPE. SEE SECTION FOR FURTHER DETAILS.
- 5 ROUTE CONDENSATE DRAIN TO FLOOR DRAIN IN ROOM. DRAIN PIPING SHALL BE COPPER.
- 6 4" Ø FLUE UP FROM FC-1 THROUGH ROOF.
- 7 ROUTE 4" Ø FLUE FROM FIREPLACE THROUGH WALL. TERMINATE WITH DEFLECT-O MODEL GDV OR APPROVED EQUAL.
- 8 PROVIDE 45°, 6" LONG BELLMOUTH FITTING AT INLET OF RETURN
- 9 TRANSITION DUCT AS REQUIRED TO CONNECT TO LOUVER. TOP OF DUCT SHALL BE FLUSH WITH TOP OF LOUVER. SLOPE BOTTOM OF DUCT DOWN TOWARDS LOUVER. TRANSITION SHALL BE A MINIUMUM OF 12" LONG.
- 10 CONTRACTOR SHALL FIELD ROUTE REFRIGERANT PIPING BETWEEN FC-3 AND CU-1. REGRIGERANT SHALL BE ROUTED ON INTERIOR OF BUILDING UNTIL PENETRATION IS WITHIN FENCED-IN REGION. ALL PIPING INSULATION SHALL BE PROVIDED WITH PANTABLE ALUMINUM JACKETS.
- ROUTE CONDENSATE PIPING TO FRENCH DRAIN. LOCATE FRENCH DRAIN A MINIMUM OF 2'-0" AWAY FROM SLAB EDGE. PROVIDE SUPPORTS FOR CONDESATE PIPING AT A MINIMUM OF 5'-0" INTERVALS. DRAIN PIPING SHALL BE COPPER.

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Date

ROOM SCHEDULE

STORAGE TOILET

TOILET STUDY STUDY CLOSET

VESTIBULE MECH / ELEC VESTIBULE

VESTIBULE CORRIDOR WOMENS

STORAGE

MEETING ROOM CIRCULATION

WORK ROOM OFFICE

BOOK DROP

STORAGE BREAK ROOM MECH/ELEC TEEN AREA CHILDREN AREA ADULT AREA

JANITORS CLOSET

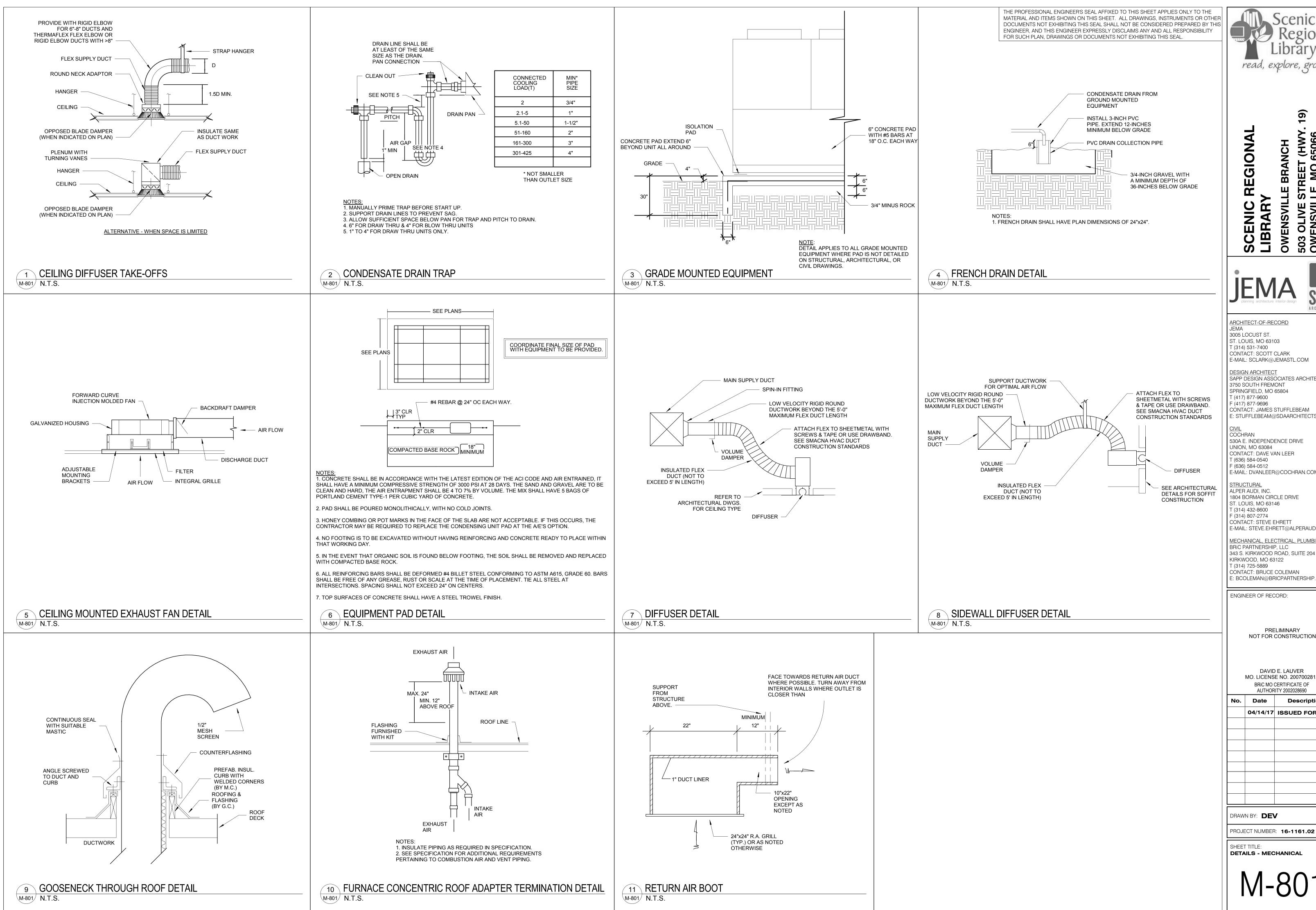
Number

04/14/17 ISSUED FOR BID DRAWN BY: **DEV** 

Description

PROJECT NUMBER: **16-1161.02** 

FLOOR PLAN - FIRST FLOOR -**MECHANICAL** 



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Description

DRAWN BY: **DEV** 

SHEET TITLE:

**DETAILS - MECHANICAL** 

MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS

PACKAGED AIR HANDLING UNIT																				
PLAN M	ARK						EXTERNAL		COOLING PERFORMANCE HEATING PROFORMANCE											
				SUPPLY AIRFLOW	MINIMUM OUTSIDE AIR	MINIMUM HEATING	STATIC PRESSURE			AMBIENT			TOTAL CAPACITY			INPUT	OUTPUT CAP.	REFRIGERANT	OPERATING WEIGHT	
		MANUFACTURER	MODEL	CFM	FLOW CFM	CFM	(IN. WG)	EDB (F°)	EWB (F°)	(F°)	LDB (F°)	DWB (F°)	(MBh)	EDB	LDB	CAP. (KW)	(MBh)	USED	(LBS)	NOTES
AHU	1	JOHNSON CONTROLS	ZST15N30	6885	850	3000	1.00	80	67	95	61	59	164.8	60	92	300.0	240.0	R-410A	2100	1 , 2, 3
AHU	2	JOHNSON CONTROLS	ZVTA5N08	1500	420	3000	1.00	82	67	95	55	54	58.2	40	80	80.0	65.0	R-410A	1063	1 , 2, 3

SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

HEATING PERFORMANCE BASED ON FULL FLOW AND MINIMUM OUTSIDE AIRFLOW. PROVIDE WITH INTEGRAL CONTROLS TO PROVIDE SINGLE ZONE VAV FAN OPERATION AS DEFINED BY ASHRAE 90.1 SECTION 6.4.3.10 TO MAINTAIN SPACE TEMPERATURE AND SPACE CO2

SET POINT. SPACE SENSOR SHALL BE 7 DAY PROGRAMMABLE TYPE WITH PASSWORD PROTECTION.

PROVIDE STAINLESS STEEL OR COMPOSITE DRAIN PAIN TO MEET ASHRAE 62.1. PROVIDE WITH 14" SEISMIC CURB FOR GRADE MOUNTING OF UNIT.

PROVIDE WITH 100% ECONOMIZER WITH POWER EXHAUST AND BAROMETRIC RELIEF KIT.

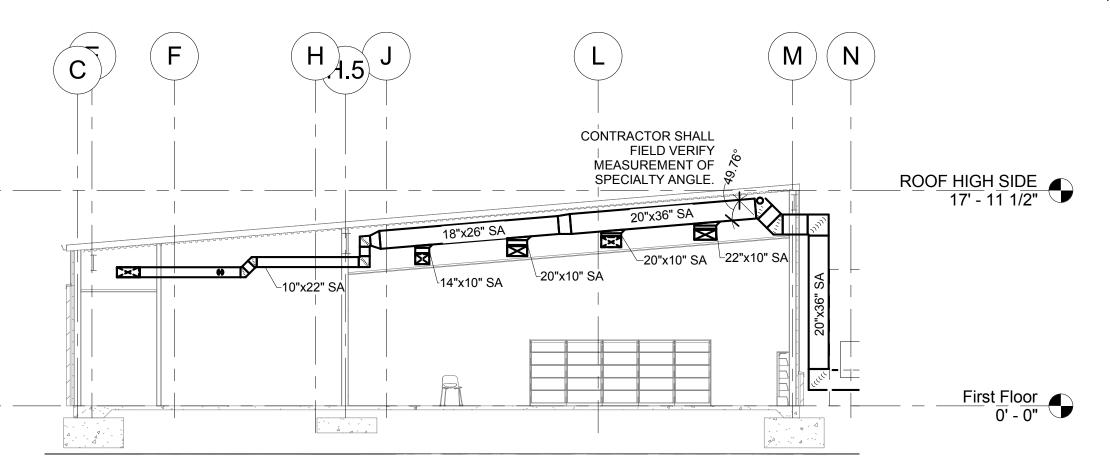
UNIT SHALL BE CONFIGURED FOR HORIZONTAL SUPPLY AND RETURN. PROVIDE WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, AND CONVENIENCE OUTLET.

PROVIDE WITH STAINLESS STEEL OR ALUMINIZED STEEL BURNER.

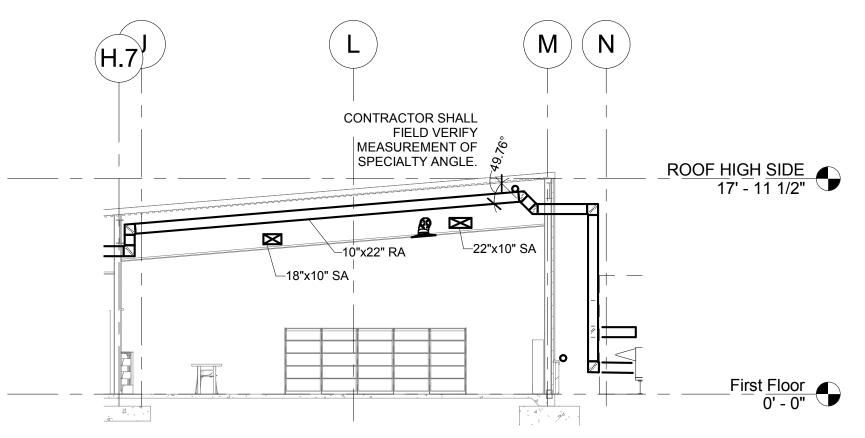
	FURNACE SCHEDULE																
PLAN MARK SUPPLY FAN D-X CIRCUITING GAS HEATING COIL																	
			SUPPLY	OUTSIDE	MOTOR	CAP. MBH		EAT		LAT		MBH	MBH			WEIGHT	
	MANUFACTURER	MODEL	CFM	AIR CFM	H.P	TOTAL	SENS.	DB (°F)	WB (°F)	DB (°F)	WB (°F)	INPUT	OUTPUT	EAT (°F)	LAT (°F)	(LBS.)	NOTES
FC 1	GUARDIAN	RG19060	1200	215	0.0	34.2	22.9	80	67	62	58	60	57	60	104	122	1

NOTES:

1. SEE SHEET E-901 FOR ELECTRICAL INFORMATION.



#### AHU-1 DUCTWORK THROUGH 307 CIRCULATION M-901 1/8" = 1'-0"



2 AHU-2 DUCTWORK THROUGH 307 CIRCULATION M-901 1/8" = 1'-0"

CONDENSING UNIT SCHEDULE												
PLAN	MARK	MANUFACTURER	MODEL	ASSOCIATED INDOOR UNIT	COOLING CAPACITY (MBh)	REFRIGERANT TYPE	UNIT WEIGHT (LBS)	NOTES				
CU	1	GUARDIAN	RAC	FC-1	36.0	R410A	160.00	1				

1. SEE SHEET E-901 FOR ELECTRICAL INFORMATION.

	AIR DEVICE SCHEDULE													
					FA	CE				AIR TERMINAL				
TYPE MARK	MANUFACTURER	MODEL	STYLE	CONNECTION SIZE	LENGTH	WIDTH	MAXIUMUM AIRFLOW (CFM)	THROW (FT)	MAX NC LEVEL	STATIC PRESSURE (IN-WG)	MATERIAL	FINISH	MOUNTING TYPE	NOTES
S1	TITUS	OMNI	SQUARE PLAQUE	6"ø	12"	12"	100	8	30	0.10	STEEL	BWE	LAY-IN	1
S2	TITUS	OMNI	SQUARE PLAQUE	6"ø	24"	24"	160	7	30	0.10	STEEL	BWE	LAY-IN	1
S3	TITUS	OMNI	SQUARE PLAQUE	8"ø	24"	24"	300	12	30	0.10	STEEL	BWE	LAY-IN	1
S4	TITUS	OMNI	SQUARE PLAQUE	10"ø	24"	24"	410	14	30	0.10	STEEL	BWE	LAY-IN	1
S5	TITUS	FL-10	TWO 1" SLOT S HIGHTHROW	8"ø	48"	5 5/16"	300	25	30	0.10	STEEL	BWE	SURFACE MOUNTED	1
R1	TITUS	350RL	GRILL	6"ø	24"	24"	160	-	30	0.10	STEEL	BWE	LAY-IN	1
R2	TITUS	350RL	GRILL	12"ø	24"	24"	550	-	30	0.10	STEEL	BWE	LAY-IN	1
R3	TITUS	350RL	GRILL	22"x22"	24"	24"	1500	-	30	0.10	STEEL	BWE	LAY-IN	1

NOTES:

1. PROVIDE WITH EARTHQUAKE TABS.

LOUVER SCHEDULE											
PLAN MARK							MAX P.D.				
		MANUFACTURER	MODEL	CFM	DIMENSIONS	FREE AREA	IN W.C.	MATERIAL	NOTES		
LV	1	RUSKIN	ELF6375DX	0	12x12	57	0.1	ALUMINUM	1, 2		

NOTES:

1. COLOR TO BE SELECTED BY ARCHITECT. 2. STYLE: CONTINUOUS DRAINABLE STATIONARY LOUVER, EXTENDED ALUMINUM.

EXHAUST FAN SCHEDULE											
PLAN N	MARK				EXTERNAL			MOTOR			
				AIDELOM	STATIC		INILET	MOTOR			
		MANUFACTURER	MODEL	AIRFLOW (CFM)	PRESSURE (IN-WC)	FAN RPM	INLET SONES	POWER WATTS	NOTES		
		MANUI ACTURER	MODEL	(CI IVI)	(114 440)	I AN IZEIN	SONES	77/	NOTES		
EF	1	LOREN COOK	GC-162	150	0.12	1200	3.4	98	1		
EF	2	LOREN COOK	GC-162	150	0.12	1200	3.4	98	1		

NOTES:

1. SEE SHEET E-901 FOR ELECTRICAL INFORMATION.

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BRIC MO CERTIFICATE OF AUTHORITY 2002028690 Description

04/14/17 ISSUED FOR BID

DRAWN BY: **DEV** PROJECT NUMBER: 16-1161.02

SCHEDULES - MECHANICAL

#### PLUMBING GENERAL NOTES - PLUMBING SHEETS ONLY

- 1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM SPECIFICATIONS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO SERVICES TO FIT ACTUAL JOB CONDITIONS.
- PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO THAT ALL PIPE AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS.
- 3. CONTRACTOR SHALL VERIFY EXACT LOCATION, CONDITION, ELEVATION AND SIZES OF UTILITIES AT SITE BEFORE PROCEEDING WITH WORK.
- PLUMBING CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS.
- 5. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH UNIFORM PLUMBING CODE 2009 EDITION AND INTERNATIONAL BUILDING CODE 2009 EDITION.
- 6. CONTRACTOR SHALL PROTECT ALL ADJACENT AREAS DURING ALL PHASES OF CONSTRUCTION.
- 7. ANY HOLES LEFT IN WALL CONSTRUCTION DUE TO WORK SHALL BE PATCHED AND PAINTED BY THIS CONTRACTOR TO MATCH CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT.
- 8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATION. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- 9. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SHUT-OFF VALVES AND ACCESS PANELS AT THE BASE OF ALL WATER SUPPLY PIPING
- 10. PLUMBING CONTRACTOR TO PROVIDE CLEANOUT AT THE BASE OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, AND SANITARY STACKS.
- 11. PLUMBING CONTRACTOR SHALL VERIFY THAT ALL VALVES IN THE COLD AND HOT WATER SUPPLY PIPING ARE IN THE FULLY OPEN POSITION. CONTRACTOR TO VERIFY ALL BALANCING VALVES ON HOT WATER CIRCULATING PIPING ARE OPEN AND ADJUSTED AS NOTED TO ASSURE PROPER CIRCULATION.
- 12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL EQUIPMENT DRAINS FOR ALL APPLIANCES (AIR HANDLERS, WATER HEATERS, KITCHEN EQUIPMENT, (ETC.) AND ROUTE TO THE NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION AT DRAIN AS REQUIRED. FINAL CONNECTION TO EQUIPMENT SHOULD BE MADE BY CONTRACTOR PROVIDING EQUIPMENT UNLESS OTHERWISE NOTED.
- 13. WATER TEMPERATURE SETTING FOR WATER HEATER AND THERMOSTATIC MIXING VALVES SHALL BE AS FOLLOWS: WATER HEATER 140 DEG F
  THERMOSTATIC MIXING VALVE 110 DEG F
- 14. ALL PIPING SHALL BE CONCEALED IN CHASE, WALLS, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.

- 15. REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY SIZES TO INDIVIDUAL FIXTURES.
- 16. EQUIPMENT AND FIXTURE SYMBOLOGY MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR
- 17. FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- 18. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS CONTRACTOR. PAD SHOULD BE A MINIMUM OF 4" THICK.
- 19. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO THE BID DUE DATE.
- 20. CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.
- 21. INVERT ELEVATIONS ARE BASED ON FIRST FLOOR LEVEL BEING SET AT 100'-0".
- 22. LOCATIONS OF ROOF DRAINS, FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC., NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
- 23. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 12'-0" FROM AIR INTAKES ON MECHANICAL ROOFTOP EQUIPMENT. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.
- 24. AREA ABOVE CEILINGS SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING. NO PVC PIPING ALLOWED ABOVE CEILING. ALL SANITARY AND VENT PIPING TO BE CAST IRON ABOVE CEILING. ALL GAS PIPING ABOVE CEILING TO BE STEEL WITH WELDED JOINTS. ALL POLYPROPYPLENE WATER PIPING ABOVE CEILING SHALL BE WRAPPED TO ACHIEVE 25/50 SMOKE/FLAME SPREAD RATING.
- 25. MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS.
- 26. EXCAVATION, BEDDING AND BACKFILL ASSOCIATED WITH BELOW SLAB PIPING INSTALLATION SHALL BE CONSIDERED PART OF THE PLUMBING CONTRACTOR'S WORK.
- 27. STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 28. ALL PLUMBING PIPING IN FINISHED ROOMS, OPEN TO STRUCTURE SHALL BE PAINTED TO MATCH STRUCTURE. DOMESTIC WATER PIPING SHALL BE PAINTED WITH PAINT THAT HAS ELASTOMERIC PROPERTIES, SUITABLE FOR PAINTING PLASTIC MATERIALS. FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS FOR PIPE SURFACE PREPARATION AND PAINT APPLICATION.
- 29. OWNER HAS FIRST SALVAGE RIGHT TO ALL FIXTURES TO BE REMOVED. DISPOSE OF REMAINDER OF DEMOLISHED MATERIALS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

	PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN)											
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	WASTE	VENT	COLD WATER	HOT WATER	NOTES				
WC-1	WATER CLOSET, FLOOR MOUNT	KOHLER	K-4405	4"	2"	-	-	ADA COMPLIANT, FLOOR MOUNT, FLOOR DISCHARGE				
	FLUSH VALVE	SLOAN	WES-111-W	-	-	1-1/4"	-	1.1 TO 1.6 gpf DUAL FLUSH MANUAL FLUSHOMETER				
LA-1	LAVATORY (WALL HUNG)	KOHLER	K-2005	1-1/2"	1-1/2"	-	-	WALL HUNG, ADA COMPLIANT, PROVIDE CARRIER				
	FAUCET	CHICAGO FAUCETS	895-317CP	-	-	1/2"	1/2"	ADA COMPLIANT LEVER HANDLES (1)				
SK-1	SINK	ELKAY	LR1919	1-1/2"	1-1/2"			SINGLE BASIN, SS SINK				
	FAUCET	CHICAGO FAUCETS	895-317GN8AE29VPCP	-	-	1/2"	1/2"	2.2 GPM, WRIST BLADE PADDLES, 8" GOOSENECK				
WH-1	HOSE BIBB	WOODFORD	24	-	-	1/2"	-	INTERIOR, ANTI-SIPHON WALL HYDRANT				
OB-1	OUTLET BOX	OATEY	39140	-	-	1/2"	-					
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY	S19-2000	-	-	1/2"	1/2"	SET TO 110 DEGREE OUTLET TEMP.				
MSB-1	MOP SINK BASIN	FIAT	TSB3003	2"	1-1/2"	-	-	24" X 36" FLOOR SET, SS CAPS				
	MOP SINK FAUCET	FIAT	830-AA	-	-	1/2"	1/2"	-				
EWC-1	ELECTRIC WATER COOLER	ELKAY	EZH20	1-1/2"	1"	1/2"	-	BI-LEVEL ADA COOLER WITH BOTTLE FILLER				
GD-1	GARBAGE DISPOSAL	INSINKERATOR	EVOLUTION	-	-	-	-	INSTALL BELOW COUNTER				
OB-1	OUTLET BOX	SIOUX CHEIF	696-G1010MF	-	-	-	-	REFRIGERATOR/ICEMAKER OUTLET BOX; WITH ARRESTOERS				

	DRAIN SCHEDULE (BASIS OF DESIGN)											
MARK	MARK MANUFACTURER MODEL# GRATE BODY STRAINER NOTES											
FD-1	JAY R. SMITH	2110	NB	CI	SS	PROVIDE WITH TRAP GUARD TRAP SEAL, SURESEAL OR ENGINEER APPROVED EQUAL.						
FCO	SIOUX CHIEF	834-64DNR	N/A	DUCTILE IRON N/A NICKLE BRONZE ROUND COVER PLATE.								

NOTES: NB NICKEL BRONZE SS STAINLESS STEEL

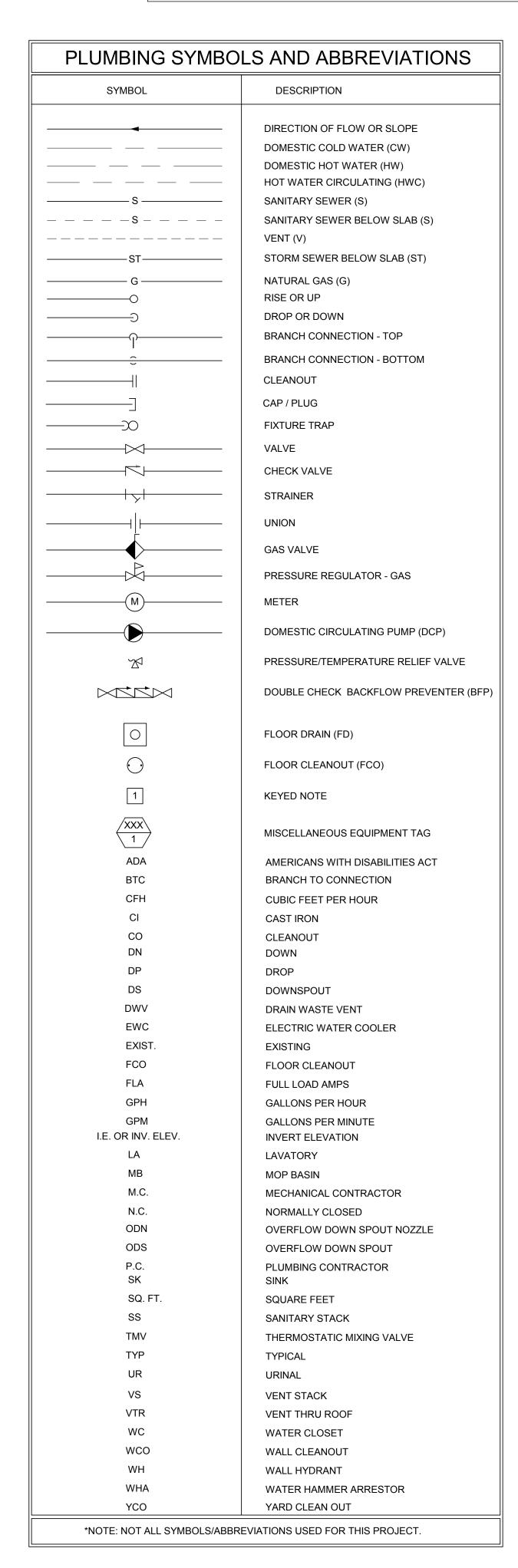
CI CAST IRON

- INDICATES NOT APPLICABLE

(1) INSTALL WITH A TMV-1 INSTALLED ON THE HOT WATER SUPPLY MOUNTED BELOW THE SINK/LAVATORY. SET TMV-1 TO 110 DEGREE OUT TEMPERATURE.

ELECTRIC WATER HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL NO.	STORAGE	OUTLET TEMPRATURE	RECOVERY AT 100° F RISE	INPUT	NOTES			
EWH-1	A.O. SMITH	DEL-10D-4.5	10 GAL	140	18 GAL	4.5 KW	1			
NOTES  1 SEE	L E SHEET E-901 FOR ELECT	RICAL INFORMATIO	DN.	<u> </u>		I				

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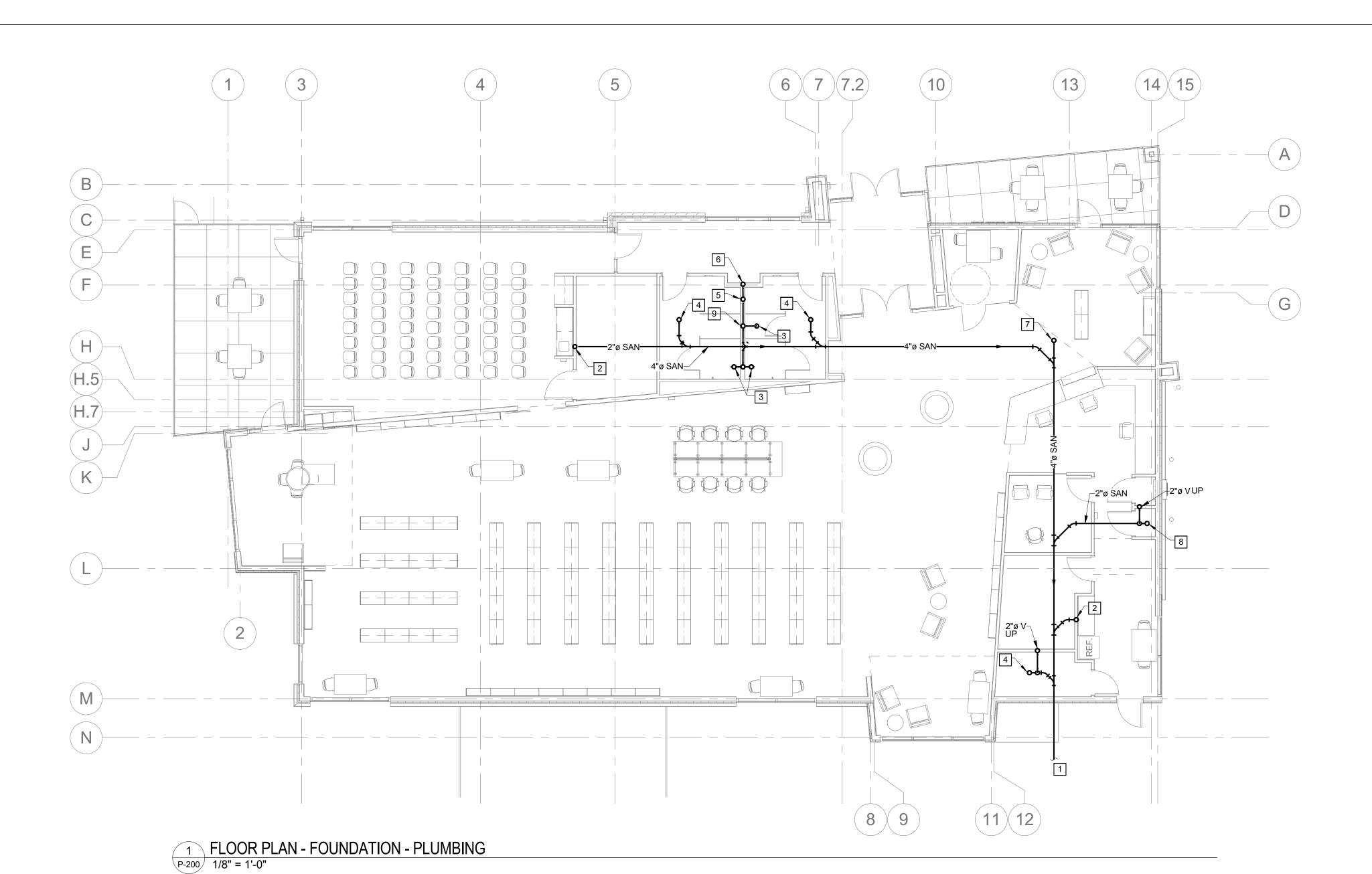
Description

DRAWN BY: **DEV**PROJECT NUMBER: **16-1161.02** 

SHEET TITLE:

LEGEND, SYMBOLS, NOTES,
ABBREVIATIONS, & SCHEDULES -

P-00<sup>-</sup>



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# **GENERAL NOTES**

1 SEE P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

# **KEYED NOTES**

- 1 SEE CIVIL PLANS FOR CONTINUATION.
- 2 2" SANITARY UP TO SK-1.
- 3 4" SANITARY UP TO WC-1
- 4 4" SANITARY UP TO FD-1. 5 2" SANITARY UP TO LAV-1.
- 6 2" SANITARY UP TO EWC-1.
- 7 4" SANITARY UP TO FCO.
- 8 2" SANITARY UP TO MSB-1.
- 9 CONNECT 2" SANITARY TO 4" SANITARY FROM WC-1.

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PROJECT NUMBER: 16-1161.02

FLOOR PLAN - FOUNDATION -**PLUMBING** 

1 FLOOR PLAN - FIRST FLOOR - PLUMBING
1/8" = 1'-0"

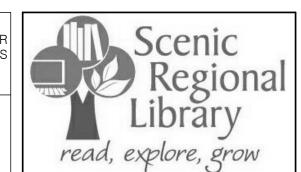
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### **GENERAL NOTES**

1 SEE P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

## **KEYED NOTES**

- 1 1/2" CW AND HW DOWN TO AND 1 1/2" VENT UP FROM SK-1.
- 2 1" CW DOWN TO AND 2" VENT UP FROM WC-1. 3 1/2" CW AND HW DOWN TO AND 1 1/2" VENT UP FROM LAV-1.
- 4 1/2" CW DOWN TO AND 1 1/2" VENT UP FROM EWC-1. 5 3/4" CW DOWN TO WH-1.
- 6 SEE DETAIL FOR EWH-1 PIPING REQUIREMENTS.
- 7 4" VENT UP THROUGH ROOF.
- 8 2" VENT UP THROUGH ROOF.
- 9 3/4" NG DOWN TO FIREPLACE. 10 LOCATION OF GAS METER. SEE DETAIL FOR INSTALLATION
- REQUIREMENTS. 11 CONNECT 3/4" NG TO AHU-1. SUPPORT PIPING ON GROUND.
- 12 DROP PIPING THROUGHOUT BUILDING TO COORDINATE WITH ROOF AND CEILING SLOPE.
- 13 3/4" NG DOWN THROUGH WALL. PENETRATE WALL 18" AFF. ROUTE TO AHU-2. SUPPORT PIPING ON GROUND.
- 14 3/4" NG DOWN TO FC-1. 15 1/2" CW DOWN TO OB-1.



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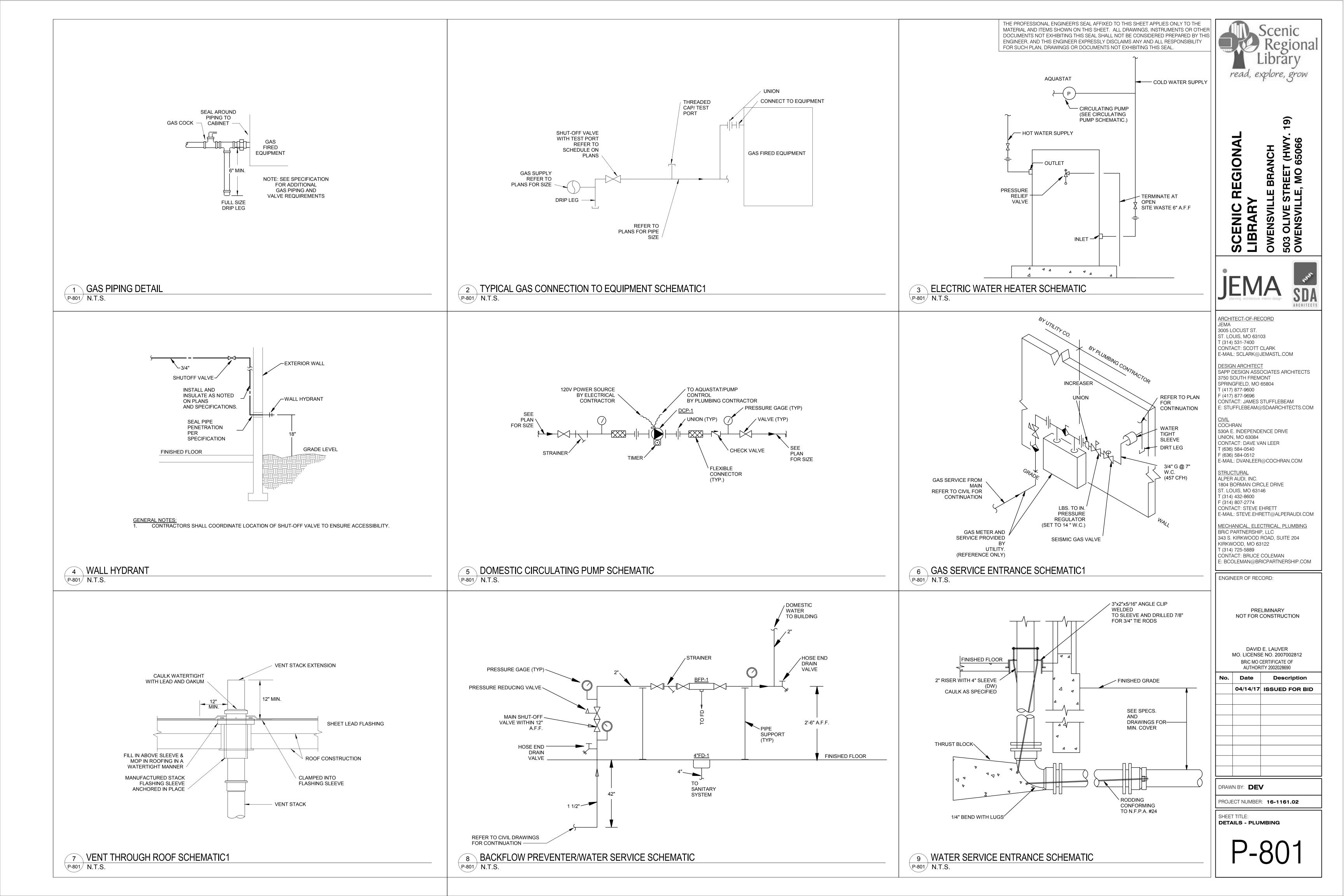
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FLOOR PLAN - FIRST FLOOR -**PLUMBING** 

**ROOM SCHEDULE** 

Number	Name
)2	STORAGE
)3	TOILET
05	TOILET
06	STUDY
07	STUDY
08	CLOSET
09	Room
09	VESTIBULE
10	MECH / ELEC
16	VESTIBULE
18	Room
00	VESTIBULE
)1	CORRIDOR
)2	WOMENS
03	MENS
04	STORAGE
05	COATS
06	MEETING ROOM
07	CIRCULATION
08	STUDY
09	WORK ROOM
10	OFFICE
11	BOOK DROP
12	JANITORS CLOSET

STORAGE BREAK ROOM MECH/ELEC TEEN AREA CHILDREN AREA ADULT AREA



#### **ELECTRICAL ABBREVIATIONS:**

- A.F. AMP FUSE. USED IN CONJUNCTION WITH "A.S."
- A.F.F. ABOVE FINISHED FLOOR.
- A.S. AMP SWITCH USED IN CONJUNCTION WITH "A.F." OR "N.F."
- C IN STATEMENT IS ABBREVIATION FOR "CONDUIT."
- CAFCI COMBINATION ARC FAULT CIRCUIT INTERRUPTER BREAKER.
- CKT CIRCUIT.
- CLG INSTALL DEVICE EITHER AT OR 12" BELOW FINISHED CEILING.
- E.C. ELECTRICAL CONTRACTOR (DIVISION 16)
- E.M. EQUIPMENT MANUFACTURER.
- ETR EXISTING TO REMAIN.
- EX INDICATES DEVICE IS EXISTING.
- F.B.O. FURNISHED BY OTHERS
- FS FUSIBLE SWITCH.
- GARAGE DOOR INSTALLER.
- GFI GROUND FAULT INTERRUPT PROTECTION.
- HORSEPOWER
- ISOLATED / INSOLATED GROUND DEVICE.
- LVC LOW VOLTAGE CONTRACTOR
- M.C. MECHANICAL CONTRACTOR (DIVISION 15).
- NOT FUSED / NON-FUSIBLE SWITCH.
- NIC NOT IN CONTRACT
- OC 6" OVER (ABOVE) COUNTER LEVEL.
- P.C. PLUMBING CONTRACTOR (DIVISION 15)
- REL RELAY.
- TV TELEVISION
- U.N.O. UNLESS NOTED OTHERWISE.
- UCR UNDER COUNTER REFRIGERATOR.
- UPS UNINTERRUPTIBLE POWER SUPPLY
- VFD VARIABLE FREQUENCY DRIVE.
- WALL MOUNTED DEVICE (48" A.F.F.)
- WP WEATHERPROOF IN-USE COVER.

#### **ELECTRICAL INSTALLATION NOTES:**

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDE OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT / ENGINEER.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND . OR SPEAKERS WITH LUMINARIES, SPRINKLER, AND CEILING DIFFUSERS, CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEW SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND / OR EQUIPMENT.
- WALL MOUNTED DEVICES (STROBES, PULL STATIONS, SPEAKERS, SENSORS, RECEPTACLES, LIGHT SWITCHES, ETC.) THAT ARE LOCATED WITHIN +/- 2' HORIZONTALLY OFF A LOWER DEVICE(S), ALL DEVICES SHALL BE ALIGNED VERTICALLY AND RACEWAYS ROUTED AS REQUIRED TO ALLOW THE DEVICES TO BE MOUNTED VERTICALLY.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID THE IMPEDANCE OF OPERATION AND / OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL GEAR ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 10. ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTING WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 12. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOOR SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOP.
- 13. CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230 OF THE NATIONAL ELECTRIC CODE.
- 14. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- 15. UNLESS OTHERWISE STATED, THE MINIMUM CIRCUIT SHALL BE (2) #12 AND (1) #12 GND IN 3/4" CONDUIT FOR IN DOORS OR IN 1" CONDUIT FOR EXTERIOR APPLICATIONS.

#### **ELECTRICAL SYMBOLS:**

ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.

- CEILING-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)
- WALL-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)

- FB# INDICATES FLOOR BOX REQUIREMENTS
- FB1 FLOOR BOX
  - (1) 5-20 DUPLEX RECEPTACLES.
  - COMMUNICATIONS: (1) DATA OUTLETS (RJ-45).
- FB2 FLOOR BOX
  - **COMMUNICATIONS:**

(2) 5-20 DUPLEX RECEPTACLES.

- (2) DATA OUTLETS (RJ-45). FB3 - FLOOR BOX
- (2) 5-20 DUPLEX RECEPTACLES.
- FB4 FLOOR BOX
  - (1) 208V/2P BREAKER WITH 120V WHIP (3) #12, (1) #12 GND, 1" C WITH SHARED NEUTRAL.
  - **COMMUNICATIONS:** PROVIDE CAT6 DATA CONNECTION PER FLOOR PLAN.
- PANELBOARD LOCATION ON PLANS. "LNL1" INDICATES DESIGNATION.
- FEEDER SCHEDULE NOTE. "A" INDICATES FEEDER IN SCHEDULE.
- MECHANICAL EQUIPMENT DESIGNATION. "CU-1" INDICATES ITEM IN MECHANICAL EQUIPMENT DATA SCHEDULE. REFER TO MECHANICAL

EQUIPMENT SCHEDULE FOR ADDITION REQUIREMENTS.

CIRCUIT CONDUIT ROUTING. " " INDICATES ONE (1) GROUND CONDUCTOR, ONE (1) NEUTRAL CONDUCTOR AND TWO (2) PHASE CONDUCTORS RESPECTIVELY. ") "INDICATES ISOLATED GROUND CONDUCTOR. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM U.N.O



- ---- CONDUIT ROUTED UNDER SLAB.
- CONDUIT ROUTED IN CEILING SPACE OF LEVEL BELOW.
- CONDUIT ROUTED EXPOSED AS SHOWN.

———— CONDUIT TURNING DOWN.

- CONDUIT TURNING UP.
  - GROUND CONNECTION OR LIGHTNING PROTECTION GROUND ROD
- MOTOR STARTING SWITCH. MOUNT AT 48" A.F.F. U.N.O. "M" INDICATES MOTOR. "P" INDICATES WITH PILOT LIGHT.
- MOTOR CONNECTION. "1" INDICATES HORSEPOWER.
- POWER POKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE CONDUIT CONNECTION.
- 30A ELECTRICAL DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND 3-POLE NUMBER OF CONDUCTORS.
  - PUSHBUTTON.

## **COMMUNICATION SYMBOLS:**

- COMMUNICATION ROUGH-IN ONLY WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING AND BLANK FACEPLATE.
- COMMUNICATION OUTLET IN RECESSED WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE CABLING AND JACKS AS DENOTED (SEE BELOW), "#A" (TYPICAL) INDICATES CABLING AND CONNECTIVITY REQUIREMENTS.

CABLING REQUIREMENTS

- "#A" TELEPHONE CABLE (CAT 5e)
- WALL PHONE, MOUNT 48" A.F.F. FACEPLATE SHALL HAVE BASE UNIT MOUNTING STUDS
- "#D" DATA CABLE (CAT 6).
- "WAP" WIRELESS ACCESS POINT. PROVIDE CAT6 WITH MALE

NOTE: NUMBER (#) BEFORE CABLE TYPE INDICATES QUANTITY

- TV CONNECTION. PROVIDE WIREMOLD EVOLUTION WALL BOXES. BOX SHALL HAVE POWER AND DATA ON TOP WITH SPACE ON BOTTOM. PROVIDE 1" C. FOR DATA AND 3/4" C. FOR POWER, PROVIDE CAT6 FROM SERVER TO BOX AND PROVIDE TERMINATION TO CABLE.
- VC VOLUME CONTROLLER FOR SPEAKERS

## **RECEPTACLE SYMBOLS:**

#### TYPE DESIGNATION:

"SW"- NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE CIRCUIT THROUGH LOCAL OCCUPANCY SENSOR CONTACTOR LOCATED ABOVE CEILING. REFER TO LIGHTING PLAN FOR LOCATION OF CONTACTOR.

"TVSS"-NEMA 5-20R SURGE SUPPRESSION TYPE DUPLEX RECEPTACLE.

"MW"- MICROWAVE RECEPTACLE.

"TV"- TV RECEPTACLE. MOUNT ADJACENT TO TV OUTLET. REFER TO COMMUNICATIONS FLOOR PLANS FOR TV OUTLET

"EWC"- ELECTRIC WATER COOLER RECEPTACLE: CONCEALED BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTER ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.

"H"- MOUNT OUTLET HORIZONTALLY.

"G"- INDICATES A 5-20 RECEPTACLE (NON-GFCI) PROTECTED BY GFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT

"A"- INDICATES A 5-20 RECEPTACLE (NON-AFCI) PROTECTED BY AFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT

- NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
- NEMA 5-20R G.F.I. DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS
- NEMA 5-20R DOUBLE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
- NEMA 5-20R G.F.I. DOUBLE DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
- NEMA 5-20R GROUND TYPE SIMPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
- SPECIAL PURPOSE RECEPTACLE AS INDICATED ON DRAWINGS SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.

LIGHTING SYMBOLS:

- " | " INDICATES FOR DEVICE TO BE WALL-MOUNTED
- ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.

CORD REEL RECEPTACLE. REFER TO DETAIL ON FLOOR PLAN.

# B-LLC

- 23,a,b,c SYMBOL NOMENCLATURE:
  - "B"- INDICATES FIXTURE TYPE.
  - "23"- NUMBER DESIGNATES FIXTURE CIRCUIT. "LLC"- FIXTURE CONTROLLED BY LIGHTING CONTROL SYSTEM REFER TO LIGHTING CONTROL DIAGRAM FOR DEVICES AND
  - CONTROLS. "a,b,c"- FIXTURE CONTROLLED BY LOCAL SWITCH REFER TO LIGHTING CONTROL SYMBOL FOR CONTROL METHOD
  - TYPICAL OF ALL LIGHT FIXTURES. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
- ( ) WALL MOUNTED DOWNLIGHT.
- LIGHT FIXTURE. SIZE AS INDICATED. WALL MOUNTED LIGHT FIXTURE ⊢ STRIP LIGHT FIXTURE
- EMERGENCY STRIP LIGHT FIXTURE.
  - EMERGENCY DOWNLIGHT. CEILING MOUNTED EMERGENCY LIGHT FIXTURE.
  - EXIT LIGHT FIXTURE. PROVIDE WITH ARROWS AS INDICATED.
  - DECORATIVE POST TOP SITE LIGHTING FIXTURE.

#### ● POLE MOUNTED SITE LIGHTING FIXTURE. CEILING FAN - REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

# OTHER:

KNOCK BOX, PROVIDED BY OTHERS. PROVIDE MONITOR MODULE AS INDICATED ON PLANS.

DETAIL REFERENCE. "4" INDICATES DETAIL # "E301" INDICATES SHEET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.

SHEET KEYED NOTE "1" INDICATES NOTE #.

# **LIGHTING CONTROL SYMBOLS:**

WALL SWITCH. MOUNT AT 48" A.F.F. U.N.O. UPPER CASE SUBSCRIPT INDICATES TYPE LOWER CASE SUBSCRIPT INDICATES SWITCH LEG. SUBSCRIPTS 3, 4 INDICATE THREE WAY AND FOUR WAY RESPECTIVELY.

#### TYPE DESIGNATION

- "DM"- DIMMER CONTROL
- "LV"- INDICATES 0-10V AND TO PROVIDE POWER PACK FOR SWITCH AND OCCUPANCY SENSOR.
- "NL"- NIGHT LIGHT FIXTURE CIRCUIT TO PANELBOARD "MAIN" WITH NO LOCAL CONTROL.
- "OS"- DUAL (PIR AND ULTRASONIC) OCCUPANCY SENSOR
- "110i" NUMBER INDICATE ROOM NUMBER. LETTER INDICATES SWITCH NUMBER IN THE ROOM.
- РС PHOTO CELL DEVICE

CONTACTOR.

- LCPS LIGHTING CONTROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE
- LCP LIGHTING CONTROL PANEL. INCLUDES SYSTEM CONTROLLER. CONTAINS RELAYS.
- LLC LOCAL LIGHTING CONTROLLER. REFER TO DETAIL 1/E8.0.0
- NI NETWORK INTERFACE
  - OCCUPANCY SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT AT 96" A.F.F. SUBSCRIPT DENOTES SENSOR TYPE.
  - "IR"- PASSIVE INFRARED TECHNOLOGY. "DT"- DUAL (PIR + ULTRASONIC) TECHNOLOGY.

REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS.

OCCUPANCY SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J-

BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE.

read, explore, grow

SCENI

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TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF

Date Description 04/14/17 ISSUED FOR BID

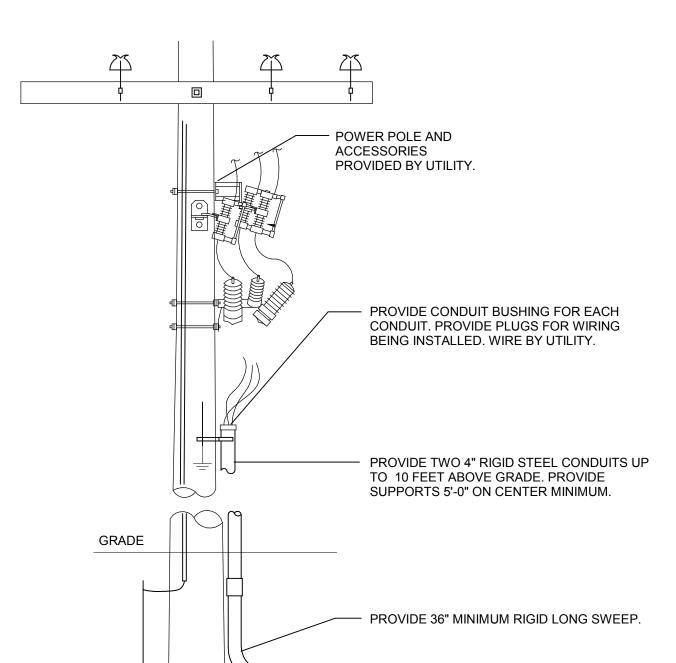
AUTHORITY 2002028690

DRAWN BY: **TLK** 

PROJECT NUMBER: **16-1161.02** 

LEGEND, SYMBOLS, NOTES, & **ABBREVIATIONS - ELECTRICAL** 

- PROVIDE LIGHTING CONTACTOR FOR BUILDING MOUNTED LIGHTS AND POLE SITE FIXTURES SEE DETAIL ON THIS SHEET FOR CONTACTOR.
- FIXTURES PRIOR TO INSTALLING BASE WITH CIVIL CONTRACTOR.
- AROUND THE FLAG POLE APPROXIMALY 4' AWAY FROM THE FLAG POLE.
- CONTACTOR SHALL BE LOCATED IN ELECTRICAL ROOM NEAR PANEL SEE LIGHTING PLAN FOR BUILDING MOUNTED FIXTURES. ELECTRICAL CONTRACTOR SHALL CORRIDNATE SITE LIGHTING
- FLAG POLE FLOOD LIGHTS (S3 FIXTURE) SHALL BE EVENLY SPACED



PVC CONDUIT. SEE THIS SHEET



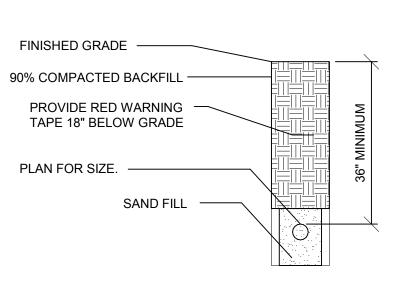
## **KEYED NOTES**

- 1 PROVIDE (2) #10, (1) #10 GND, IN 1" CONDUIT POWER TO SITE LIGHTING FÍXTURES.
- 2 UNDERGROUND DUCTS FOR COMMUNICATIONS SERVICES, TWO (2) 2" PVC. SEE SHEET E-401 FOR CONTINUATION INTO BUILDING. COORDINATE WITH SERVICE PROVIDERS AND ROUTE TO POLE OR MANHOLE AS REQUIRED.

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FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

- PROVIDE 4" CONDUIT TO UTILITY SERVICE. SEE CIVIL PLAN FOR
- 4 PROVIDE 20' RTS POLE, AND POLE BASE. SEE DETAIL ON THIS SHEET FOR GROUNDING, WIRING, AND BASE DETAILS.
- 5 ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM BUILDING ELECTRICAL ROOM TO THE LOCATION INDICATED. PROVIDE PULL STRING, CAP AND LABEL CONDUIT ON EACH END. CONTRACTOR SHALL PROVIDE EXACT LOCATION OF END OF CONDUIT ON AS



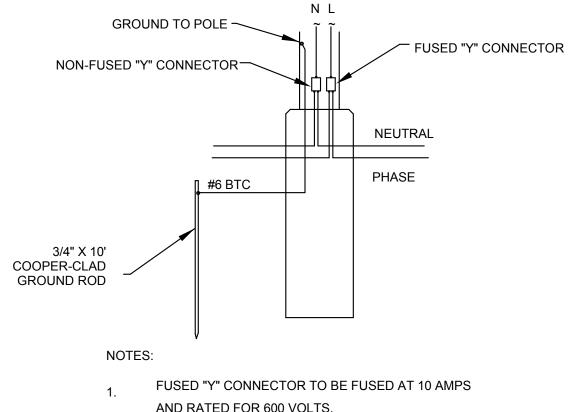
**TRENCHING DETAIL** E-100 N.T.S.

#### - NON-SHRINK GROUT WITH WIRE MESH 1" CHAMFER — ANCHOR BOLTS PER MANUFACTURERS RECOMMENDATIONS (4 TO NEXT FROM LAST POLE POLE 1" MIN 1" MIN SIX NO. 5 BARS 7'-0" **EQUALLY** SEE PLAN SPACED NO. 4 SPIRAL WITH 24" - 3 LOOPS MINIMUM TOP AND BOTTOM. LOOPS SPACED 2" NOTES:

- ALL CONCRETE ABOVE GRADE SHALL BE HAND RUBBED TO A SMOOTH FINISH.
- CONCRETE POLE BASE BY E.C. CONCRETE TO HAVE 3500 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS AND USE ASTM A615 GRADE 60 REINFORCING STEEL.



1 SITE PLAN - ELECTRICAL E-100 1" = 20'-0"



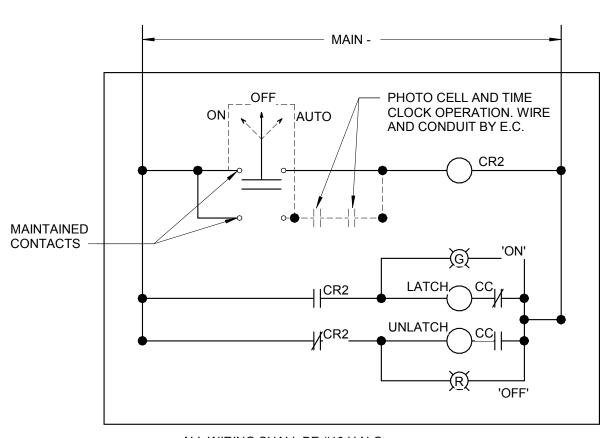
MAIN-22

AND RATED FOR 600 VOLTS.

GROUND POLE AND NEUTRAL TO GROUND ROD USING CONDUCTOR INDICATED.

3 SITE LIGHTING POLE WIRING DETAIL E-100 N.T.S.





ALL WIRING SHALL BE #10 U.N.O. MECHANICALLY HELD LIGHTING CONTACTOR

4 SITE LIGHTING CONTACTOR E-100 N.T.S.

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Description 04/14/17 ISSUED FOR BID

AUTHORITY 2002028690

DRAWN BY: **TLK** 

PROJECT NUMBER: **16-1161.02** 

SITE PLAN - ELECTRICAL

# GION OWENSVILLE SCENIC LIBRAR

ARCHITECT-OF-RECORD 3005 LOCUST ST.

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**ROOM SCHEDULE** 

STORAGE TOILET **TOILET** STUDY STUDY CLOSET

VESTIBULE MECH / ELEC VESTIBULE

VESTIBULE CORRIDOR WOMENS

STORAGE COATS

MEETING ROOM CIRCULATION

**WORK ROOM** OFFICE

**BOOK DROP** 

**STORAGE BREAK ROOM** MECH/ELEC

TEEN AREA CHILDREN AREA ADULT AREA

JANITORS CLOSET

Number

	No.	Date	Description
		04/14/17	ISSUED FOR BID
1			

DRAWN BY: **TLK** PROJECT NUMBER: **16-1161.02** 

FLOOR PLAN & LIGHT FIXTURE SCHEDULE - FIRST FLOOR -

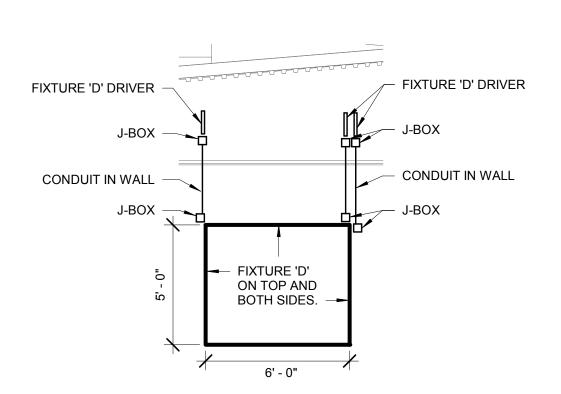
**ELECTRICAL LIGHTING** 

# **GENERAL NOTES**

- 1 ALL LIGHTING SHALL BE CONTROLLED BY A TIME CLOCK UNLESS NOTED TO BE CONTROLLED BY AN OCCUPANCY SENSOR. REFER TO LEGEND SHEET FOR TIME CLOCK DETAILS. A TIME CLOCK OVERRIDE SWITCH SHALL BE PROVIDED IN THE WORK ROOM 111.
- 2 ALL LIGHTING IN STORAGE, OFFICES, STUDIES, MECHANICAL/ELECTRICAL, MEETING ROOM AND BATHROOMS ARE CONTROLLED BY OCCUPANCY & MOTION SENSORS.
- CEILING FIXTURES.

### **KEYED NOTES**

- 1 ALL SITES AND EXTERIOR BUILDING LIGHTING SHALL BE CONTROLLED BY A PHOTO CELL LOCATED ON THE EXTERIOR EAST AND WEST WALLS OF THE BUILDING. PROVIDE WIRE AND CONDUIT TO THE PHOTO CELL IN SHOWN LOCATION.
- PROVIDE STRIP LED LIGHT FIXTURES IN DISPLAY CASE. SEE DETAIL ON THIS SHEET FOR DISPLAY CASE LIGHTING. PROVIDE LED DRIVER ABOVE THE CEILING OR AS HIGH AS POSSIBLE. DISPLAY CASE LIGHTS SHALL BE CONTROLLED BY A DIMMING CONTROLLER AND LOW VOLTAGE DIMMING SWITCH LOCATED ABOVE THE DESK. LABEL SWITCH AS CASE LIGHTS.
- 3 EXHAUST FAN IN THE RESTROOM SHALL BE CONTROLLED BY THE LIGHTING CONTROL IN THE SPACE. PROVIDE UNDER CABINET LIGHTING. PROVIDE LINE VOLTAGE SWITCH TO CONTROL THE LIGHT FIXTURE.
- UNDER CABINET LIGHT FIXTURE DRIVER SHALL BE LOCATED IN THE BACK CORNER UNDER THE CABINET.



CASE DETAIL EL-201/ 1/4" = 1'-0"

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PC - SITE/BUILDING

LIGHTING

PHOTO CELL

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TC MAIN

			LIGHT	FIXTURE SCH	IFDI II F
MANUFACTURER 1	Model	Voltage	LAMPS	MOUNTING	DESCRIPTION
FEELUX	TUN7	120V	7W PER 20", 75LM/W 80 CRI 3500K, UNDER CABINET	SURFACE MOUNT	UNDER CABINET FIXTURE. PROVIDE DRIVER AND CABLE AS REQUIRED.
OCL	LO1	120V	48", 145W, 13050 LUMENS, LED, 3500K LIGHT TEMP	PENDENT / CEILING MOUNTED	PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER.
OCL	LO1	120V	72", 145W, 13050 LUMENS, LED, 3500K LIGHT TEMP	PENDENT / CEILING MOUNTED	PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER.
IKEA	FILLSTA	120V	7", 11W, 600 LUMENS, LED, 3500K LIGHT TEMP	PENDENT / CEILING MOUNTED	14" DIAMETER
LED LINEAR	XOOLUM	120V	10 W/M, 131 LN/W, 80CRI, 3500K, WALL WASH	SURFACE MOUNT	SILVER - ADJUSTABLE MOUNT CABLE OUT THE BACK, PROVIDE DIMMABLE DRIVER. DRIVER SHALL BE LOCATED ABOVE THE CEILING.
METALUX	22CZ	120V	2x2, 34.4W, 3400 LUMENS, LED, 3500K LIGHT TEMP	RECESSED LAY-IN CEILING	UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
METALUX	SNLED	120V	4', 25.07W, 3061 LUMENS, LED, 3500K LIGHT TEMP	CEILING SURFACE MOUNT	COMMERCIAL STRIPLIGHT, LED 4.0, CLEAR LENS, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
HALO	PD6	120V	6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP	RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
HALO	PD6	120V	6", 17.1W, 1500 LUMENS, 80 CRI, LED, 3500K LIGHT TEMP	RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER. WITH REMOTE EMERGENCY BACK UP BATTERY.
TECH LIGHTING	ELEMENT	120V	4" ROUND, FLANGE, BEVEL, 1500 LUMENS 80CRI, 3500K, 40 DEG	RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
SURE-LITES	SEL50 LED	120V	BUG EYE, 3W, LED	CEILING SURFACE MOUNT	DEDICATED BUG LIGHTING, WHITE FINISH, UNIVERSAL 120V, WITH BACKUP BATTERY
COOPER LIGHTING	GALLEON	120V	9500 LUM, 4000K, 85W, T2	20' POLE RTS	PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINSIH.
COOPER LIGHTING	GALLEON	120V	9500 LUM, 4000K, 85W, T3	20' POLE RTS	PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINSIH.
COOPER LIGHTING	NFFLD-S	120V	2700 LUM, 5000K, 3H X 3V	GRADE MOUNT	GROUND MOUNT, PROVIDE 12" DIAMETER CONCRETE SUPPORTS.
COOPER LIGHTING	IST	120V	5000 LUM, 4000K, 45W, BL3	WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX.
COOPER LIGHTING	IST	120V	5000 LUM, 4000K, 45W, BL4	WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX.
COOPER LIGHTING	IST	120V	5000 LUM, 4000K, 45W, BL3	WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. PROVIDE COLD WEATHER BATTERY PACK.
COOPER	LPX SERIES	120V	3.8W, LED, RED	WALL MOUNTED	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS. WITH BATTERY BACKUP.
COOPER	LPX SERIES	120V	3.8W, LED, RED	WALL MOUNTED	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS. WITH BATTERY BACKUP.
COOPER	ES SERIES	120V	3.8W, LED, RED	CEILING MOUNTED	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS. WITH BATTERY BACKUP.
	OCL OCL IKEA LED LINEAR METALUX METALUX HALO HALO TECH LIGHTING SURE-LITES COOPER LIGHTING	FEELUX  OCL  OCL  LO1  OCL  IKEA  FILLSTA  LED LINEAR  METALUX  METALUX  SNLED  HALO  HALO  PD6  TECH LIGHTING  COOPER LIGHTING  IST  COOPER LIGHTING  COOPER  LPX SERIES  COOPER	FEELUX	FEELUX	FEELUX

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1 FLOOR PLAN - FIRST FLOOR - ELECTRICAL LIGHTING

EL-201 1/8" = 1'-0"

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0



SDA architecture interior design

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ENGINEER OF RECORD:

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TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Description

Date

ROOM SCHEDULE

STORAGE TOILET

VESTIBULE MECH / ELEC VESTIBULE

VESTIBULE CORRIDOR WOMENS

STORAGE COATS

MEETING ROOM CIRCULATION

WORK ROOM OFFICE

**BOOK DROP** 

STORAGE
BREAK ROOM
MECH/ELEC
TEEN AREA
CHILDREN AREA
ADULT AREA

JANITORS CLOSET

TOILET STUDY STUDY CLOSET

Number

	04/14/17	ISSUED FOR BID
DRAW	N BY: TI K	

PROJECT NUMBER: 16-1161.02

SHEET TITLE:
FLOOR PLAN, ONE-LINE, &
SCHEDULE - FIRST FLOOR ELECTRICAL POWER

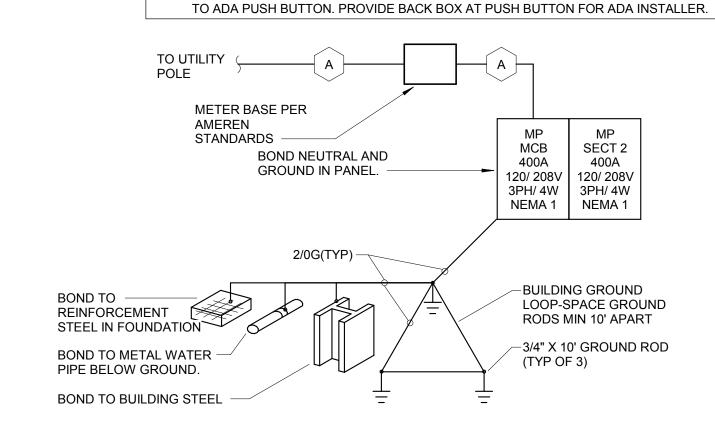
EP-301



1 FOR ALL FLOOR BOXES, PROVIDE POWER, DATA AND CONDUIT TO EACH ACCORDINGLY. REFER TO SHEET E-001 FOR DEFINITIONS OF DIFFERENT FLOOR BOXES. CONDUIT TO BE RAN BACK TO NEAREST WALL, AS SHOWN ON DRAWINGS, UP THROUGH WALL AND BACK TO MAIN PANEL IN ELECTRICAL ROOM 123.

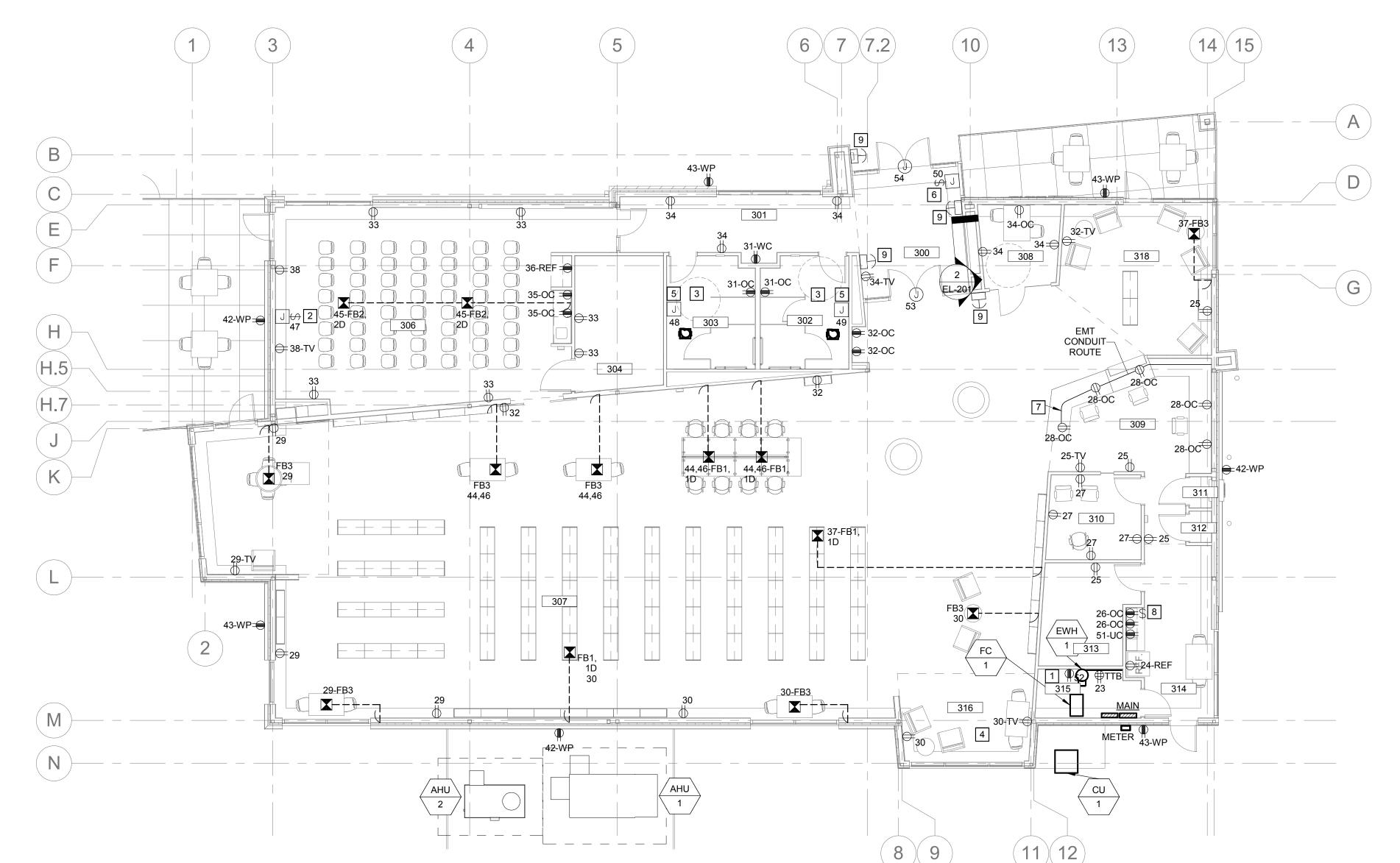
# KEYED NOTES

- PROVIDE RECEPTACLE ON TOP OF RACK.
- PROVIDE CONNECTION TO PROJECTOR SCREEN MOTOR. PROVIDE ¾" CONDUIT FROM THE MOTOR CONTROLLER TO THE PROJECTOR SCREEN SWITCH. PROVIDE 2 GANG BACK BOX WITH SINGLE GANG MUD RING FOR THE PROJECTOR SCREEN SWITCH. COORDINATE LOCATION WITH PROJECTOR SCREEN.
- PROVIDE CONNECTION TO EXHAUST FAN. THE EXHAUST FAN SHALL BE CONTROLLED BY THE LIGHTING CONTROL SWITCH.
- 4 PROVIDED RECEPTACLE FOR THE FIRE PLACE. COORDINATE THE LOCATION WITH THE FIRE PLACE.
- PROVIDE BACK BOX FOR HAND DRYER. PROVIDE FINAL CONNECTION TO HAND DRYER. COORDINATE LOCATION WITH G.C.
- PROVIDE CONNECTION TO ADA DOOR OPENER. PROVIDE A 20AMP TOGGLE DISCONNECT SWITCH, ABOVE THE CEILING, FOR ADA OPERATOR.
- PROVIDE EMT CONDUIT TO OVER COUNTER RECEPTACLES IN WORK ROOM 309 AS SHOWN ON DRAWINGS. CONDUIT SHALL BE RAN UNDER COUNTER AND UP THROUGH DESK. PROVIDE (2) #12, (1) #12 GND, IN 3/4" CONDUIT.
- PROVIDE SWITCH FOR GARBAGE DISPOSAL.
   CONTRACTOR SHALL PROVIDE J-BOX ABOVE CEILING WITH A TOGGLE SWITCH. THE TOGGLE SWITCH SHALL BE USED AS A DISCONNECT SWITCH FOR THE ADA DOOR OPEN. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM THE ADA DOOR CONTROLLER



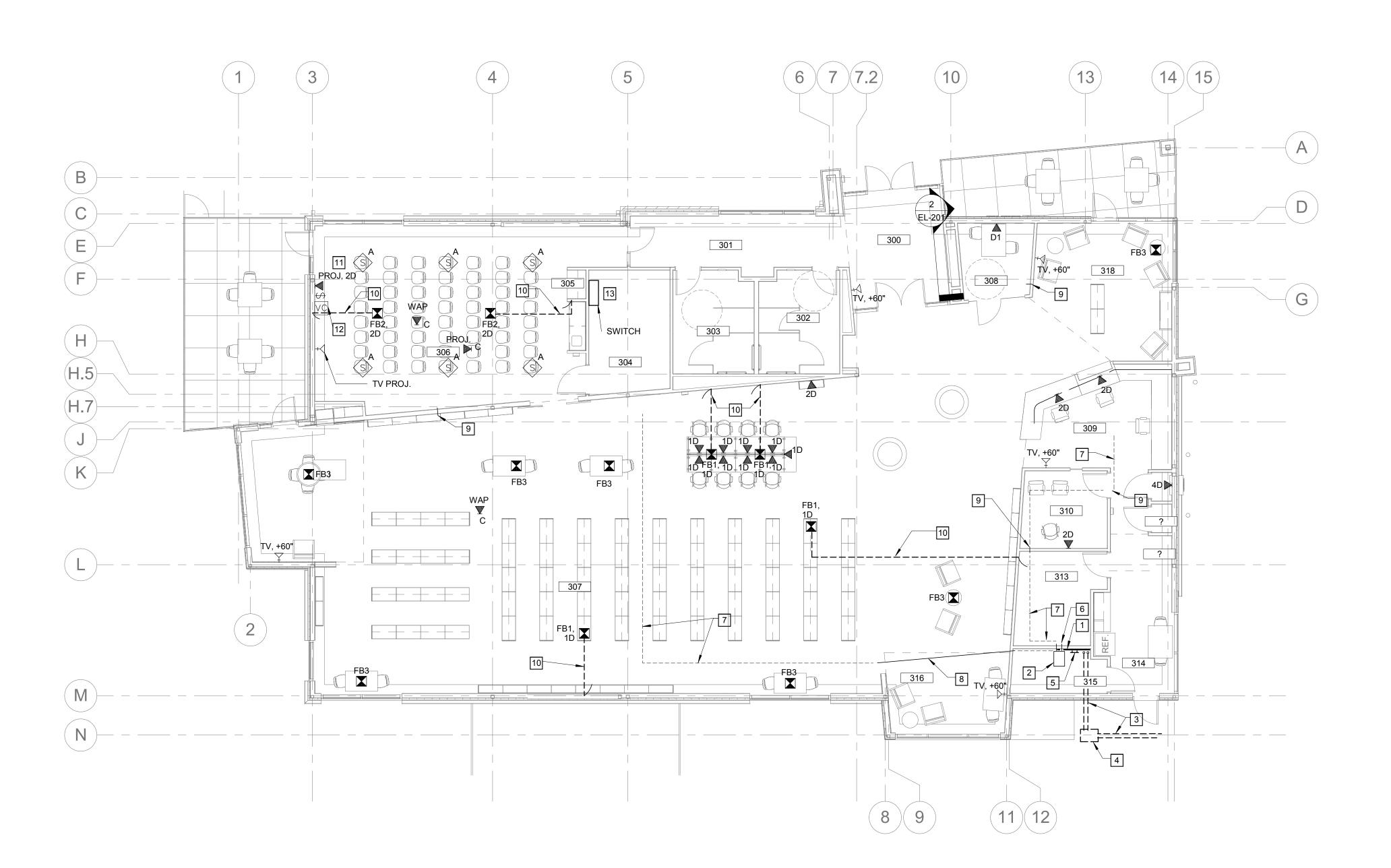
2 ELECTRICAL ONE-LINE P-301 N.T.S.

			FE	EDER S	CHEDUI	_E			
PLAN MARK	NUMBER OF SETS	NUMBER OF HOT	HOT SIZE	NUMBER OF NEUTRAL	NEUTRAL SIZE	NUMBER OF GROUND	GROUND SIZE	CONDUIT SIZE	NOTES
Α	1	3	600KCMIL	1	600KCMIL	_	_	4"	



1 FLOOR PLAN - FIRST FLOOR - ELECTRICAL POWER

EP-301 1/8" = 1'-0"



1 FLOOR PLAN - FIRST FLOOR - ELECTRICAL DATA
1/8" = 1'-0"

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## KEYED NOTES

- PROVIDE 3/4" PLYWOOD BACKBOARD FOR MOUNTING COMMUNICATION AND DATA EQUIPMENT.
  PLYWOOD SHALL BE FIRE RETARDANT UL LISTED PRODUCT. COVER WALL FROM 12" AFF TO 108" AFF.
  PROVIDE 7' TALL 45U 2-POST EQUIPMENT RACK FOR NETWORK AND COMMUNICATIONS EQUIPMENT.
  RACK SHALL THREE (3) 1U HORIZONTAL CABLE MANAGERS. MOUNT RACK WITH FRONT OF RACK
- PROVIDE TWO (2) 2" UTILITY DUCTS FOR COMMUNICATIONS AND DATA SERVICES. DUCTS SHALL STUB UP 12" ABOVE FLOOR WHERE SHOWN. ROUTE FROM ROOM #123 TO UTILITY POLE AS DIRECTED BY SERVICE PROVIDERS, VERIFY.
- PROVIDE CAST FIBER CEMENT TYPE HAND HOLE WITH 2-BOLT GASKETED COVER SIMILAR TO HUBBELL #B10162230A AND COVER #C10162202A. COORDINATE WITH GRADING CONTRACTOR AND ENSURE THAT BOX IS FLUSH WITH FINISHED SURFACE AND AREA ADJACENT TO BOX DRAINS AWAY FROM BOX COVER.
- PROVIDE TELECOMMUNICATIONS GROUND BUS FOR BONDING ALL METAL OBJECTS AND EQUIPMENT CHASSIS IN ROOM. BUS SHALL BE 12"x2"x1/4" THICK COPPER WITH PRE-DRILLED HOLES TO MEET ANSI/TIA 607-B STANDARDS. PROVIDE #2 CU BACKBONE BONDING CONDUCTOR CONNECTED TO ELECTRICAL SERVICE GROUNDING ELECTRODE. ALL BONDING CONDUCTORS SHALL TERMINATE TO BUS WITH TWO-HOLE COMPRESSION CRIMP LUGS SIZED FOR THE INDIVIDUAL CONDUCTORS. BOND RACK FRAME, CONDUITS, TRAY, EQUIPMENT AND ANY EXPOSED BUILDING STEEL TO BUS WITH #6 AWG COPPER WIRE WITH GREEN INSULATION.
- PROVIDE TWO (2) 4" CONDUIT SLEEVES THROUGH WALL AT APPROX. 11'-10" AFF. CONDUITS SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST HEIGHT AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE.
- PROVIDE J-HOOK PATHWAY AT APPROX. 8" ABOVE LAY-IN CEILING FOR ROUTING NETWORK CABLING. J-HOOKS SHALL BE 4" WITH RETENTION CLIPS, PROVIDE QUANTITY AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST EXACT ROUTING TO PROVIDE ADEQUATE CLEARANCE. ALL CABLING SHALL BE TRAINED, BUNDLED AND LASHED WITH RELEASABLE VELCRO STRAPS, NYLON CABLE ZIP TIES ARE NOT ACCEPTABLE. THE INTENT IS THAT THIS PATHWAY IS A MAIN ROUTING FOR THE MAJORITY OF CABLING, INDIVIDUAL DROPS AND BUNDLES OF LESS THAN SIX CABLES SHALL UTILIZE 2" J-HOOKS.
- 8 PROVIDE 4" CONDUIT SLEEVE ABOVE AREA WITH ARCHITECTURAL DECORATIVE CEILING ELEMENT. CONDUIT SHALL HAVE BUSHINGS ON ENDS, COORDINATE WITH ALL TRADES AND ADJUST LOCATION AS NECESSARY TO PROVIDE ADEQUATE CLEARANCE. REFERENCE KEY NOTE #7 AND ALIGN WITH PATHWAY
- 9 PROVIDE 2" CONDUIT SLEEVE THROUGH WALL AT APPROX. 8" ABOVE LAY-IN CEILING. CONDUIT SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS REQUIRED. COORDINATE WITH ALL TRADES AND ADJUST LOCATION TO PROVIDE ADEQUATE CLEARANCE. REFERENCE KEY NOTE #7 AND ALIGN WITH PATHWAY.
- 10 PROVIDE 1-1/4" PVC CONDUIT FROM FLOOR BOX TO WALL AS SHOWN. CONDUIT SHALL RISE UP WALL AND STUB OUT INTO CEILING SPACE. ROUTE COMMUNICATIONS CABLING FROM BOX TO CEILING SPACE AND CONTINUE TO I.T. ROOM #315 SUPPORTED BY J-HOOKS.

11 PROVIDE HDMI OUTLET AND DATA IN FACE PLATE AT THE TV LOCATION AND DATA BOX. PROVIDE 1"

- CONDUIT FROM THE TV OUTLET BOX TO THE DATA (OC) BOX. PROVIDE HDMI CABLE BETWEEN THE TV OUTLET AND DATA OUTLET. PROVIDE TERMINATIONS FOR HDMI CABLE AT BOTH LOCATIONS.

  12 PROVIDE AV SPEAKER VOLUME CONTROLLER AND AV CONTROLLER. SEE DETAILS ON SHEET E-600.
- COORDINATE LOCATIONS WITH POWER AND LIGHTING CONTROL DEVICE.

  13 PROVIDE AV SYSTEM SWITCH ON WALL. SEE DETAIL SHEET E-600.



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503 OLIVE STREET (HWY. 19)

IN A SDA ARCHITECT

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JEMA

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ENGINEER OF RECORD:

PRELIMINARY
NOT FOR CONSTRUCTION

TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690

Description

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	04/14/17	ISSUED FOR E
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DRAWN BY: **TLK**PROJECT NUMBER: **16-1161.02** 

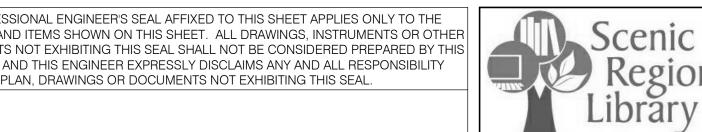
SHEET TITLE:
FLOOR PLAN - FIRST FLOOR ELECTRICAL DATA

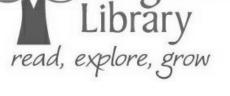
E-40<sup>-</sup>

# ROOM SCHEDULE

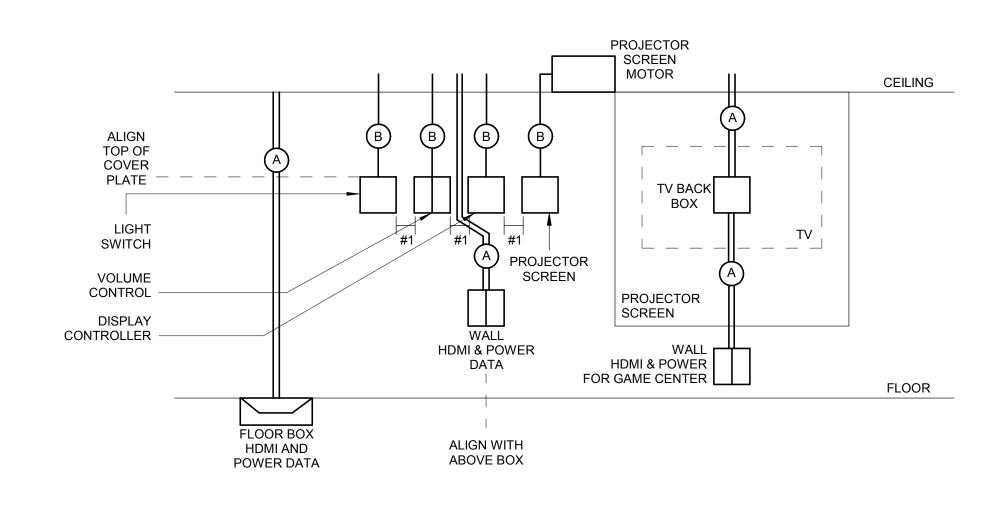
	T
Number	Name
02	STORAGE
03	TOILET
05	TOILET
06	STUDY
07	STUDY
08	CLOSET
09	Room
09	VESTIBULE
10	MECH / ELEC
16	VESTIBULE
18	Room
00	VESTIBULE
01	CORRIDOR
02	WOMENS
03	MENS
04	STORAGE
05	COATS
06	MEETING ROOM
07	CIRCULATION
08	STUDY
09	WORK ROOM
10	OFFICE
11	BOOK DROP
12	JANITORS CLOSET
13	STORAGE
14	BREAK ROOM
15	MECH/ELEC
16	TEEN AREA

CHILDREN AREA
ADULT AREA





REGIONAL



#1) SPACE BACK BOX SO THAT THERE IS 1" BETWEEN EACH COVER PLATE. PROVIDE THE REQUIRED BLOCKING TO MOUNT BOXES.

CONDUIT SIZE							
TYPE	POWER	TYPE					
A	(1) 3/4"	(1)1- 1/4"					
В	-	(1)3/4"					
0	(1) 3/4"	-					

1 AV DEVICE LAYOUT

E-801 N.T.S.

# LIGHTING CONTROL SYMBOLS

CEILING

SWITCHER.

E-801 N.T.S.

2 AV SWITCH ELEVATIONS

1) PROVIDE CABLE MANAGEMENT

SIMILAR TO LEGRAND CABLE

FILL G-MINI FROM CABLE SIDE OF SWITCHER TO CEILING.

3) PROVIDE VERTICAL MOUNT FOR

CABLE ABOVE CEILING.

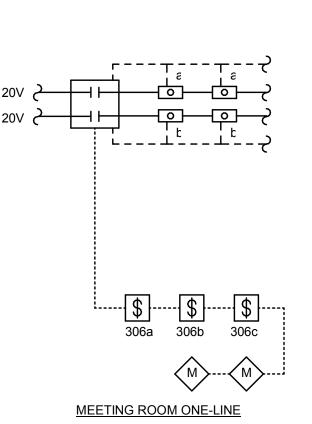
2) PROVIDE 1-1/2" O-RINGS TO SUPPORT

TOP OF DEVICE

CAT5 CONTROL WIRE -----120V CONDUCTORS ———— 0-10V WIRE \_\_\_\_ LOAD CONTROLLER

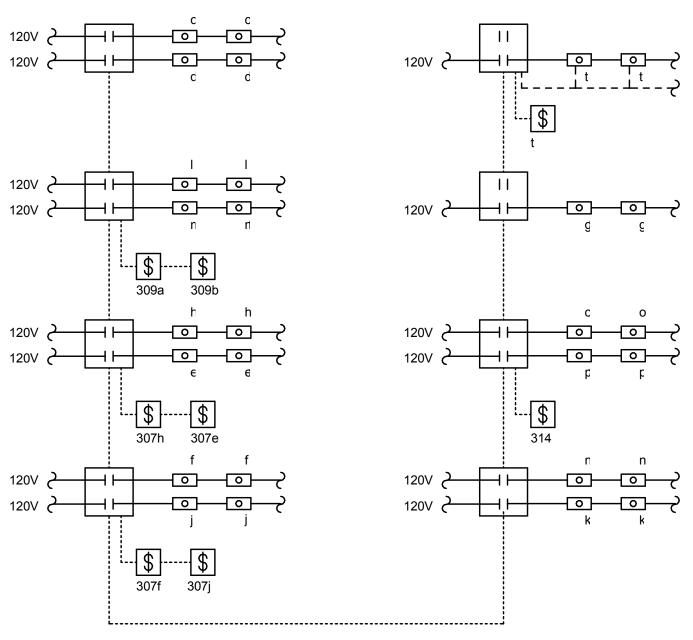
LIGHT FIXTURE LOWER CASE IS SWITCH LEG

LOW VOLTAGE SWITCH AND SWITCH NUMBER ### CEILING OCCUPANCY SENSOR



#### MEETING ROOM CONTROL

CONTROL	BUTTONS	CIRCUIT	CONTROL
DEVICE		CONTROL	TYPE
\$ 306a	a b	a,b FUTURE	ALL ON/OFF - 100%
\$ 306b	a	a,b	a,b - ON/OFF - 100%
	b	a	a - ON/OFF - 100%
	c	b	b - ON/OFF - 100%
	d	DIMMING	DIM SELECTED
\$ 306c	a	a,b	a,b - ON/OFF - 100%
	b	a	a - ON/OFF - 100%
	c	b	b - ON/OFF - 100%
	d	DIMMING	DIM SELECTED
M	VACANCY S THE ROOM		IALL BE SET UP AS A JRN OFF THE LIGHTS IN UTES OF NO



#### VESTIBULE, WORK ROOM, CIRCULATION ONE-LINE

#### VESTIBULE ROOM CONTROL

 ONTROL DEVICE	BUTTONS	CIRCUIT CONTROL	CONTROL TYPE
\$ 314	а	р	ALL ON/OFF - 100%
\$ 309a	a b c d	c,d,e,f,g,h,j,k,l,m,n,o,p k n g	ALL - ON/OFF - 100% k - ON/OFF - 100% n - ON/OFF - 100% g - ON/OFF - 100%
\$ 309b	a b c d	o p c, l d, m	o - ON/OFF - 100% p - ON/OFF - 100% c,I - ON/OFF - 100% d,m - ON/OFF - 100%
\$ 307e	а	е	k - ON/OFF - 100%
\$ 307f	а	f	I - ON/OFF - 100%
\$ 307h	а	h	m - ON/OFF - 100%
\$ 307j	а	j	n - ON/OFF - 100%
\$ t	a b	t DIMMER	t - ON/OFF - 100% DIM t SWITH LEG
_		E CONTROLLED WITH A S WITH OWNER.	TIME CLOCK.



CEILING COVER

FLOOR BOX

WALL BOX

120V -

BY OTHER

TV BACK BOX TV

**PROJECTOR** 

B - HYBRID HDMI CABLE LIBERTY DL-HFC-## C - STP-2P PLENUM RATED CONTROL WIRE

(A) - 70V PLENUM 2/#14 PAIR

🛈 - HDMI

AV CONTROLLER [EBP-105 D]

FLOOR BOX

WALL MUTE

- CEILING SPEAKER- ATLAS FAPG3T-W [TAP AT 8W] [SEE FLOOR PLAN FOR NUMBER]

AV CONTROLLER

VOLUME CONTROLLER- LOWELL 2SLVC

# 4 A / V WIRE DIAGRAM

120V —

EXTRON IN 1508 MA 70

E-801 N.T.S.

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TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF

AUTHORITY 2002028690 Description

04/14/17 ISSUED FOR BID

DRAWN BY: **Author** 

PROJECT NUMBER: **16-1161.02** 

**DETAILS - ELECTRICAL** 

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLAN, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

PLAN MARK								STAI	RTER					DISCON	NECT			CONTROL	DEVICE				
	DISCRIPTION / LOCATION HORSEPOW	APPARENT	. VOLTAGE	PHASE	NEMA ENC	L. FURNISHED BY	' INSTALLED BY	TYPE	NEMA TYPE	AUXILIARY CONTACTS	LOCATION	FURNISHED BY	′ INSTALLED BY		SWITCH	FUSE SIZE	LOCATION	FURNISHED BY		PANEL	FEEDER SIZE / RACEWAY		REMARKS
<u> </u>	<u>'</u>	<u> </u>	<b>'</b>		-					1	-								-	-		 	
HU 1	AIR HANDLER UNIT -	56772 VA	208 V	3	NEMA 3R	EM	EM	-	-	-	-	EC	EC	NF	200AMP	NF	ON WALL	MC	MC	MAIN	(3)3/0,(1)#6, 2" C.	-	
HU 1 HU 2	AIR HANDLER UNIT -	23580 VA	208 V	3	NEMA 3R NEMA 3R	EM	EM	-	-	-	-	EC	EC	NF	100AMP	NF	ON WALL	MC	MC	MAIN	(3)4,(1)#8, 1 1/4" C.	-	
U 1	CONDENSING UNIT	3931 VA	208 V	1	NEMA 3R	EM	EM	-	-	-	-	EC	EC	NF	30 AMP	NF	ON WALL	MC	MC	MAIN	(2)8,(1)#10, 3/4" C.		
WH 1	ELECTRIC WATER HEATER	5500 VA	208 V	3	NEMA 1	EM	EM	-	-	-	-	EC	EC	NF	30AMP	NF	ON WALL	MC	MC	MAIN	(2)12,(1)#12, 3/4" C.		

<b>LEGENI</b>	_

TS - TOGGLE SWITCH

EC - ELECTRICAL CONTRACTOR
EM - EQUIPMENT MANUFACTURER
FVNR - FULL VOLTAGE NON REVERSING
MC - MECHANICAL CONTRACTOR
NF - NON FUSED
NI - NON INTERRUPTING
NO/NC - NORMALLY OPEN/NORMALLY CLOSED

PANEL: MAIN OC DEVICE TYPE: BREAKER LOCATION: MECH/ELEC 315 DEVICE FAMILY: BOLT ON FED FROM:			ENCLOSURE: NEMA 1 MOUNTING: SURFACE VOLTAGE: 120/208 Wye			MAINS: 400AMP MCB WIRING: 3 PHASE 4 WIRE				CONTINOUS: 400 A BUS SC RATING: NEXT AIC RATING FAULT CURRENT: 27046 AIC CALC							
CKT	DESCRIPTION	NOTES	ОС	Р	A		В		(		Р	ОС	NOTES	DESCRIPTION	СКТ		
1	CU-1		30 A	2	1966 VA	1833 VA					3	20 A		EWH-1	2		
3							1966 VA	1833 VA							4		
5	AHU-3		20 A	1					1140 VA	1833 VA					6		
7	AHU-1		175 A	3	18924 VA	7860 VA					3	70 A		AHU-2	8		
9							18924 VA	7860 VA							10		
11									18924 VA	7860 VA					12		
13	LTS MEETING ROOM		20 A	1	532 VA	137 VA					1	20 A		LTS MENS 121/ WOMEN 122	14		
15	LTS STUDY 119/ VESTIBULE		20 A	1			1045 VA	584 VA			1	20 A		LTS CIRCULATION 100/ CIR/ WORK ROOM/	16		
17	LTS MECH/ELEC 123/ ST 113/ OFFICE 112		20 A	1					203 VA	1500 VA	1	20 A		LTS CIRCULATION 100 WINDOWS	18		
19	LTS CIRCULATION 100		20 A	1	1238 VA	0 VA					1	20 A		Spare	20		
21	LTS BUILDING		20 A	1			223 VA	317 VA			1	20 A		LTS SITE	22		
23	REC MECH/ELEC 123		20 A	1					360 VA	180 VA	1	20 A		REC BRK RM 114 REFIGERATOR	24		
25	REC BRK RM 114		20 A	1	900 VA	360 VA					1	20 A		REC BRK RM 114 KITCHEN	26		
27	REC OFFICE 112		20 A	1			720 VA	900 VA			1	20 A		REC WORK ROOM 111	28		
29	REC CIRCULATION 100 WEST WALL		20 A	1					1440 VA	1440 VA	1	20 A		REC CIRCULATION 100 SOUTH WALL	30		
31	REC WOMENS 122/ MENS 121/ WC		20 A	1	540 VA	900 VA					1	20 A		REC CIRCULATION 100 NORTH WALL	32		
33	REC MEETING ROOM 101		20 A	1			1080 VA	1260 VA			1	20 A		REC VESTIBULE/ ENTRANCE/ STUDY	34		
35	REC MEETING ROOM 101 KITCHING		20 A	1					360 VA	180 VA	1	20 A		REC MEETING ROOM 101 REFIGERATOR	36		
37	REC CIRCULATION 100 EAST FLOORBOXES		20 A	1	540 VA	360 VA					1	20 A		REC MEETING ROOM 101 WEST WALL	38		
39	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	40		
41	EMERGENCY LIGHT FIXTURES		20 A	1					42 VA	540 VA	1	20 A		REC BUILDING CONVIENCE POWER	42		
43	REC OUTSIDE CONVIENCE POWER		20 A	1	720 VA	720 VA					2	20 A		REC CIRCULATION 100 FLOORBOXES	44		
45	REC MEETING ROOM 101 FLOORBOXES		20 A	1			720 VA	720 VA							46		
47	GEN MEETING ROOM 306		20 A	1					1000 VA	1000 VA	1	20 A		GEN MENS 303	48		
49	GEN WOMENS 302		20 A	1	1000 VA	0 VA					1	20 A		GEN	50		
51	REC		20 A	1			180 VA	180 VA			1	20 A		REC	52		
53	GEN		20 A	1					1200 VA	1200 VA	1	20 A		ADA DOOR	54		
55	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	56		
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58		
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60		
61	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	62		
63	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	64		
65	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	66		
67	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	68		
69	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	70		
	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	72		
					3853	0 VA	3851	2 VA	4040	3 VA		· · · · · · · · · · · · · · · · · · ·					
						1 A	32			7 A							
										<u>'</u>							
TOTAL CONNECTED LOAD: 117444 VA										TOTAL CONNECTED AMPS: 326 A							
	TOTAL DEMAND LOA							TOTAL DEMAND AMPS: 319 A									



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E-901