



DRAWING INDEX

A-000	COVER SHEET
Т0	CIVIL TITLE SHEET
T1	TOPOGRAPHIC SURVEY
C1	DEMOLITION PLAN
C2	SITE PLAN
C3	GRADING PLAN
C4	UTILITY PLAN
D1	DETAIL SHEET
D2	DETAIL SHEET
D3	DETAIL SHEET
L1.0	LANDSCAPE PLAN
A-001	SYMBOLS AND ABBREVIATIONS
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
A-301	ENLARGED FLOOR PLANS
A-302	ENLARGED FLOOR PLANS
A-401	REFLECTED CEILING PLAN
A-402	ENLARGED CEILING PLANS
A-501	FINISH PLAN
A-601	ELEVATIONS - EXTERIOR
A-602	ELEVATIONS - INTERIOR
A-603	ELEVATIONS - INTERIOR
A-604	ELEVATIONS - INTERIOR
A-605	ELEVATIONS - INTERIOR
A-701	BUILDING SECTIONS AND BIRDS-EYE SECTION VIEW
A-702	WALL SECTIONS
A-703	WALL SECTIONS
A-704	WALL SECTIONS
A-801	DETAILS - PLAN
A-802	DETAILS - PLAN
A-803	DETAILS - BUILDING
A-804	DETAILS - BUILDING

A-805 DETAILS - BUILDING

DRAWING INDEX

A-806	DETAILS	<u>AUTHORITI</u>
A-807	DETAILS	
A-808	DETAILS - MILLWORK	BUILDING
A-809	DETAILS - MILLWORK	
A-901	DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES	
A-902	FRAME DETAILS	ACCESSIB
A-903	PARTITION TYPES	
F-101	FURNITURE PLAN - FIRST FLOOR	FIRE PREV
S-100	GENERAL NOTES	
S-101	GENERAL NOTES	
S-102	TYPICAL DETAILS	<u>MECHANIC</u>
S-103	TYPICAL DETAILS	
S-104	TYPICAL DETAILS	ELECTRIC/
S-201	FIRST FLOOR FOUNDATION PLAN	
S-202	ROOF FRAMING PLAN	
S-300	FOUNDATION SECTIONS	<u>PLUVBING</u>
S-400	FRAMING SECTIONS	
S-500	BRACE FRAME ELEVATIONS	
S-600	COLUMN SCHEDULE & DETAILS	PROPERTY
M-001	LEGEND, SYMBOLS, NOTES & ABBREVIATIONS MECH.	
M-201	FLOOR PLAN MECHANICAL	GAS:
M-801	DETAILS - MECHANICAL	
M-901	SCHEDULES - MECHANICAL	
P-001	LEGEND, SYMBOLS, NOTES & ABBREVIATIONS PLUMB.	BUL
P-200	FLOOR PLAN - FOUNDATION - PLUMBING	USE GROU
P-201	FLOOR PLAN - PLUMBING	A3
P-801	DETAILS - PLUMBING	S-1
E-001	LEGEND, SYMBOLS, NOTES & ABBREVIATIONS ELECT.	
E-100	SITE PLAN - ELECTRICAL	
EL-201	FLOOR PLAN & LIGHT FIXTURE SCHEDULE - ELECT. LIGHTING	<u>CONSTRUC</u> TYPE IIB
EP-301	FLOOR PLAN, ONE-LINE & SCHEDULE - ELECT. POWER	
EP-401	FLOOR PLAN - ELECTRICAL DATA	<u>SEISMCC</u>
EP-801	DETAILS - ELECTRICAL	С
EP-901	SCHEDULES - ELECTRICAL	<u>AREA:</u>

TIESHAV

GCODE:

BILITY:

VENTION

ICAL:

<u>CAL:</u>

IYMAINT

LDING INFORMATION

<u>UPS</u>

UCTION T

CATEGORY FLOOR

FIRST FLOOR ALLOWABLE HEIGHT AND AREA

Scenic Regional Library Scenic Scenic Scenic Scenic Regional New Haven Branch 200 Douglas Street New Haven, MD 63068

CODE INFORMATION

MNGJURISDICTION	CITY OF NEW HAVEN, MO (FRANKLIN COUNTY) NEW HAVEN-BERGER FIRE PROTECTION DISTRICT
	INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION, INCLUDING APPENDIX CHAPTERS A, C, G AND I.
	AVERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE
	INTERNATIONAL FIRE CODE (IFC) 2009 EDITION.
	INTERNATIONAL MECHANICAL CODE (IMC) 2009 EDITION.
	NATIONAL ELECTRICAL CODE 2008 EDITION.
	INTERNATIONAL PLUVBING CODE (IPC) 2009 EDITION,
ITENANCE:	INTERNATIONAL PROPERTY MAINTENANCE CODE (IPVC) 2009 EDITION.
	INTERNATIONAL FUEL GAS CODE 2009 EDITION.

	ELEMENT:	RATING
ASSEIVBLY, LIBRARY	COLUMN	0 HOUR
VODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE	CORRIDOR	OMNUTE
SAFETY PLAN, SHEET A-002)	DOOR	OMINUTE
	FLOOR	0 HOUR
TYPE:	STORAGE	0 HOUR
VON-SPRINKLERED, NOT PROTECTED		

RATINGS

REFER TO CISCA GUIDELINES FOR REQUIREMENTS

ACTUAL GSF DESIGN OCCUPANCY: 4,989 SF 133 OCCUPANTS

USE GROUP A3 IS MOST RESTRICTIVE USE. ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

MCINITY MAP



LOCATOR MAP



ARCHITECT-OF-RECORD

JEMA 3005 LOCUST ST. ST. LOUIS, MD63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEMASTL.COM

DESIGN ARCHITECT

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



NORTH

am ENGINEER

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

STRUCTURAL ENGINEER

ALPERAUDI, INC. 1804 BORVAN CIRCLE DRIVE ST. LOUIS, MD63146 T (314) 432-8600 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

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

Regional read, explore, grow 4 GION, ШК CENIC 200 N 200 ARCHITECT-OF-RECORD JEVA 3005 LOOL ST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAL: SOLARK@JEVASTL.COM DESIGNARCHTECT SAPP DESIGN ASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM <u>aml</u> cca-ban 530AE INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@0000-RAN.COM <u>STRUCTURAL</u> ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUIS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E-RETT E-MAL: STEVE.E-RETT@ALPERAUD.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTNERSHP.COM ARCHITECT OF RECORD. JOHN EDWARD MJELLER MOARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.01 SHEET TITLE: COVER SHEET

	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 NEW HAVEN	
	REPRESENTATIVE: PETER OTTEN	
	ADDRESS: 101 FRONT ST. NEW HAVEN, MO	-
	PHONE: (573) 237-3572	
	ELECTRIC	
	OWNER: AMEREN	
	REPRESENTATIVE: JASON WOODARD	
	ADDRESS: 101 MADISON ST. JEFFERSON CITY, MO	
	PHONE: (573) 681-7513	
	TELEPHONE	
	OWNER: FIDELITY COMMUNICATIONS	
	REPRESENTATIVE: ROGER HALMICK	
	ADDRESS: 64 N. CLARK ST. SULLIVAN, MO	
20	PHONE: (573) 259-0464	
BAI	GAS	
	OWNER: CITY OF NEW HAVEN	
	REPRESENTATIVE: CHRIS KEMPER	
	ADDRESS: 112 INDUSTRIAL DR. NEW HAVEN, MO	
	PHONE: (573) 690-9944	
	SPECIAL NOTES :	
	FOR QUESTIONS OR CLARIFICATION PLEASE CONTACT	
	DAVID VAN LEER AT COCHRAN. PHONE #636-584-0540	UTILITY
		UTILITY/ GOVERNING AGENCIES CONTACT WATER & CITY OF NEW HAVEN SEWER 101 FRONT ST.
		SEWER 101 FRONT ST. NEW HAVEN, MO 63068 CONTACT: PETER OTTEN PHONE: (573) 237–357
	MISSOURI RIVER	
		TELEPHONE 64 N. CLARK ST. SULLIVAN, MO 63080 CONTACT: ROGER HALM
	CITY OF	CONTACT: ROGER HALM PHONE: (573) 259-04
	MELROSE ST. NEW HAVEN	ELECTRIC AMEREN 101 MADISON ST. JEFEFERSON CITY MO 65
	SUNSET ST	JEFFERSON CITY, MO 65 CONTACT: JASON WOOD PHONE: (573) 681-751
	SITE 00	GAS CITY OF NEW HAVEN 112 INDUSTRIAL DRIVE
	HWY E C	112 INDUSTRIAL DRIVE NEW HAVEN, MO 63068 CONTACT: CHRIS KEMPE PHONE: (573) 690–994
	VICINITY MAP	THIS MATRIX HAS BEEN APPURTENANCES, TRENCHING AN
	NO SCALE	

SITE IMPROVEMENT PLANS FOR SCENIC REGIONAL LIBRARY **IN THE** CITY OF NEW HAVEN, MISSOURI 200 DOUGLAS STREET

PROJECT NO. 16-6417

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

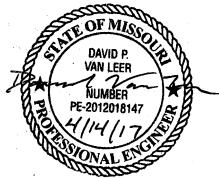
/ GOVERNING IES CONTACTS	CONTRACTOR RESPONSIBILITY-	OTHERS RESPONSIBILITY-
NEW HAVEN NT ST. /EN, MO 63068 : PETER OTTEN (573) 237–3572	 TAP WATER MAIN, SET METER, AND PLACE SERVICE LINE. TAP SEWER LINE AND CONNECT LATERAL. CONTRACTOR RESPONSIBLE FOR SUPPLYING TAPS APPROVED BY THE CITY. 	-EITHER CITY OF NEW HAVEN OR THE CONTRACTOR WILL REPAIR DOUGLAS STREET AFTER BACKFILLING AND COMPACTING. (IF CITY REPAIRS STREET, CUSTOMER WILL ASSUME COST.) -CITY REQUIRES THE ROAD TO BE REPAIRED WITHIN TWO WEEKS OF PAVEMENT REMOVAL. -CITY WILL SUPPLY WATER METER.
COMMUNICATIONS LARK ST. J. MO 63080 1: ROGER HALMICK (573) 259-0464	-INSTALL 2" CONDUIT WITH PULL ROPE FROM RIGHT-OF-WAY TO BUILDING. -ALL TURNS IN CONDUIT ARE TO BE MINIMUM 12" SWEEPS.	-TELEPHONE COMPANY WILL PROVIDE AND INSTALL SERVICE UP TO RIGHT-OF-WAY. -TELEPHONE COMPANY WILL PULL TELEPHONE LINE FROM RIGHT-OF-WAY TO SERVICE ENTRY AND INSTALL SERVICE INSIDE BUILDING.
ISON ST. DN CITY, MO 65101 F: JASON WOODARD (573) 681—7513	-ALL TRENCHING AND BACKFILLING REQUIRED. -PLACE ALL CONDUIT. -RUN SERVICE CABLE FROM TRANSFORMER TO METER. -PLACE TRANSFORMER PAD AND TRANSFORMER.	-ELECTRIC COMPANY WILL RUN CABLE FROM EXISTING TO NEW TRANSFORMER.
NEW HAVEN STRIAL DRIVE ÆN, MO 63068 f: CHRIS KEMPER (573) 690–9944	INSTALL ALL GAS LINES AND EQUIPMENT BEYOND GAS METER AND CONNECT TO METER.	-CITY WILL TRENCH, INSTALL, AND BACKFILL GAS LINES FROM GAS MAIN CONNECTION UP TO METER. -CITY WILL SUPPLY AND INSTALL GAS METER.
	ED FOR INFORMATIONAL PURPOSES. THE CONTRAC ILL, AND OTHER INCIDENTALS TO MEET OR EXCEED	







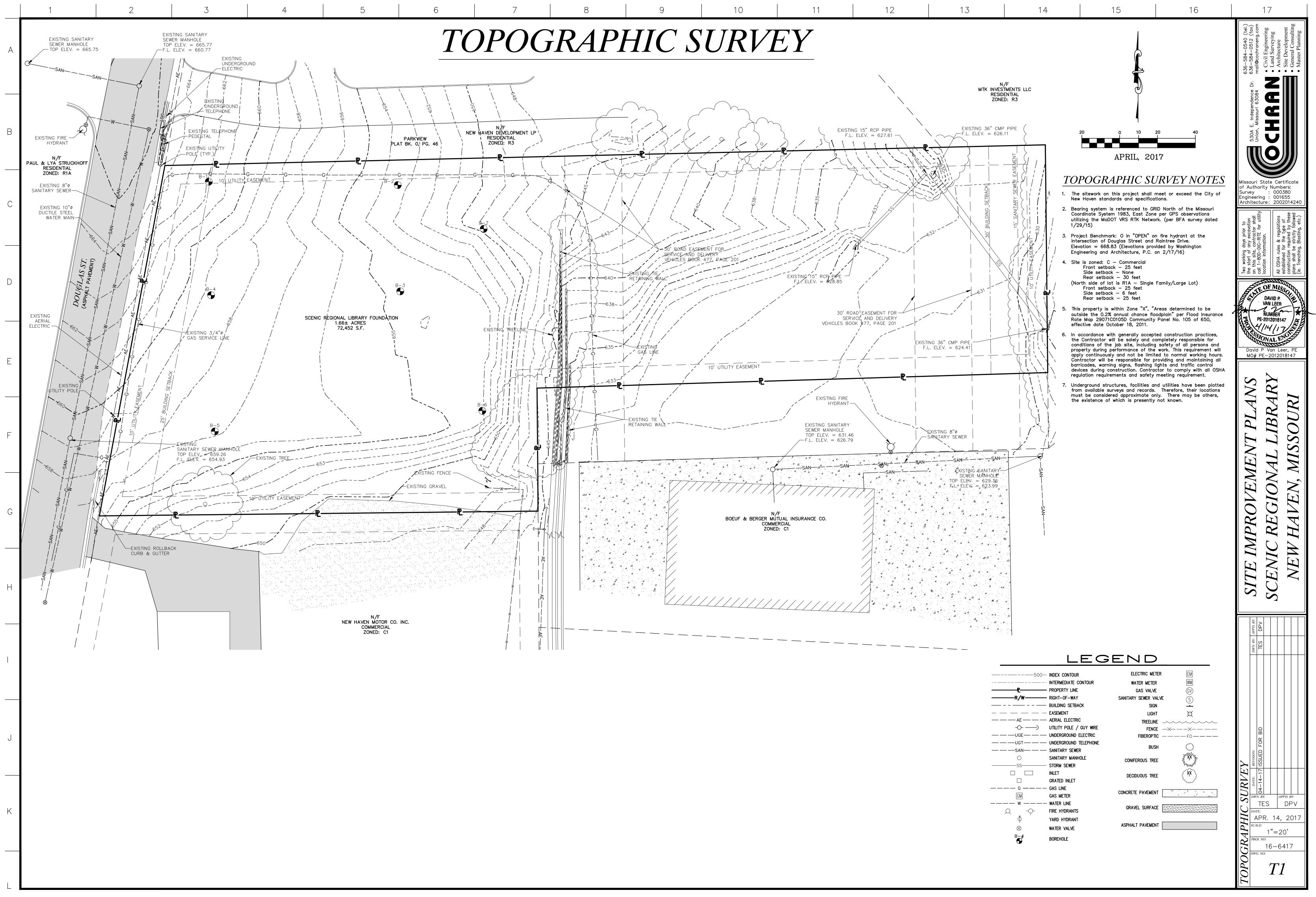
SHEET INDEX	SHEET
TOPOGRAPHIC SURVEY	T1
DEMOLITION PLAN	C1
SITE PLAN	C2
GRADING PLAN	C3
UTILITY PLAN	C4
DETAIL SHEET	D1
DETAIL SHEET	D2
DETAIL SHEET	D3

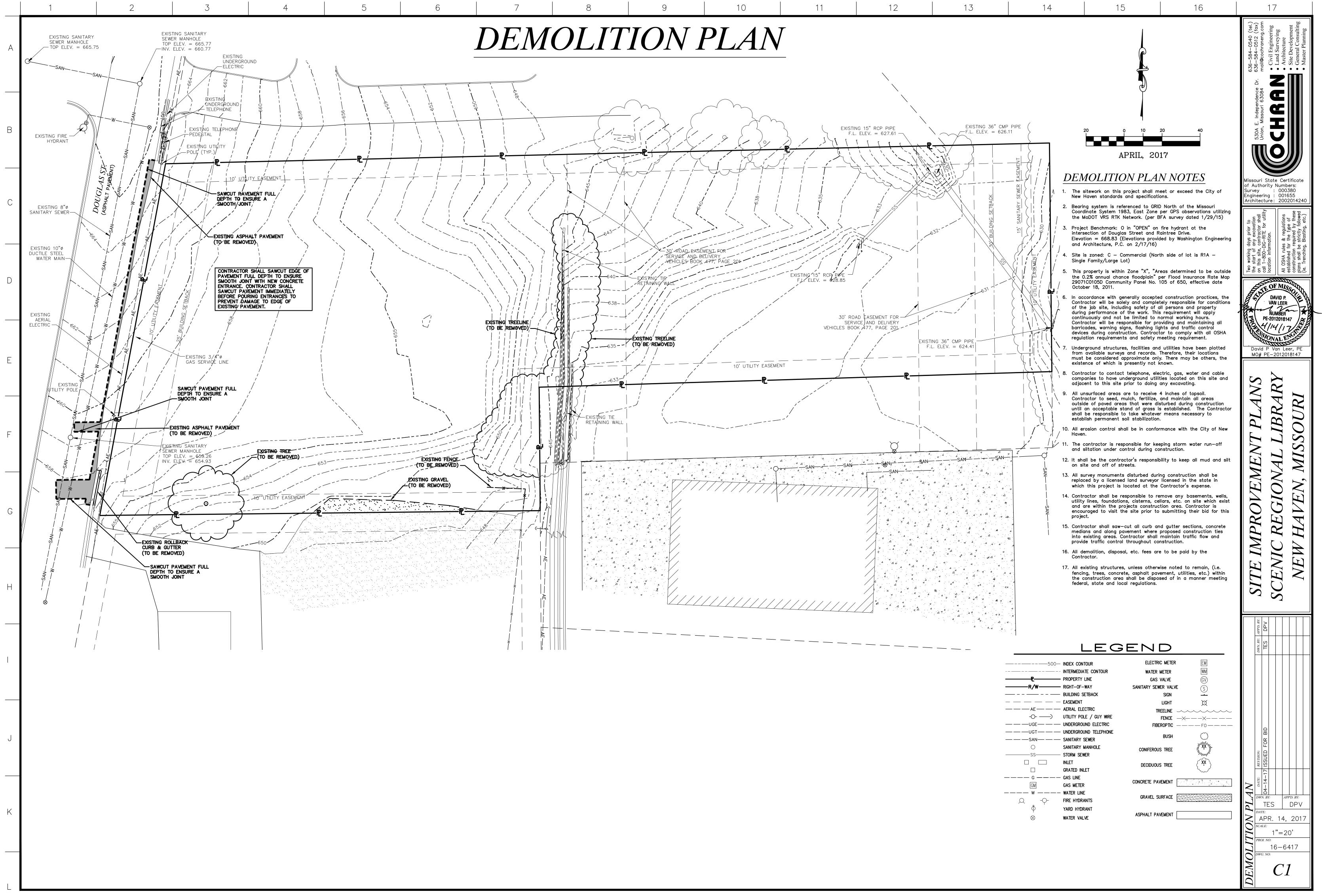


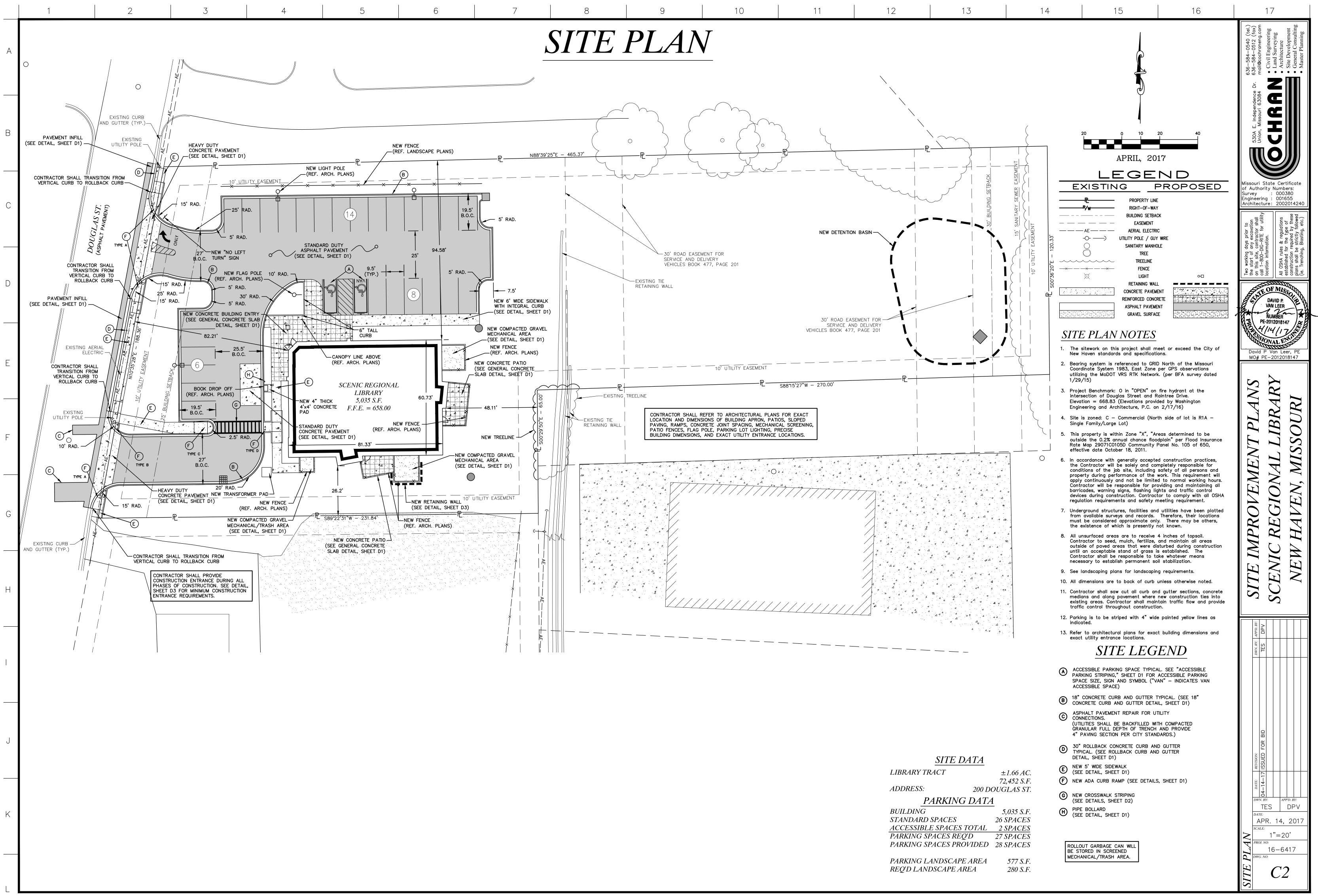
David P. Van Leer No. PE-2012018147 Registered Professional Engineer State of Missouri for Cochran

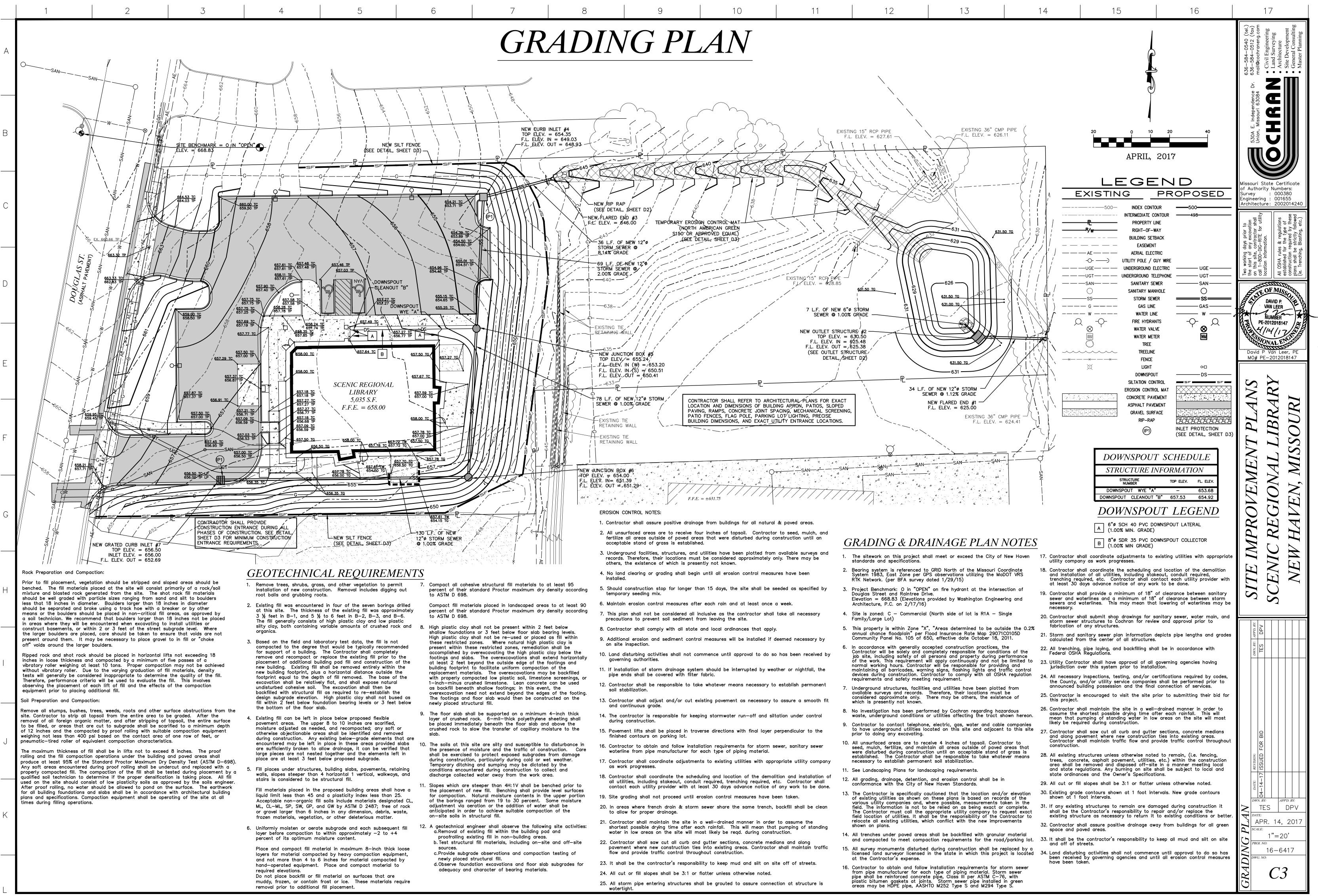
> Two working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utilit ocation information.

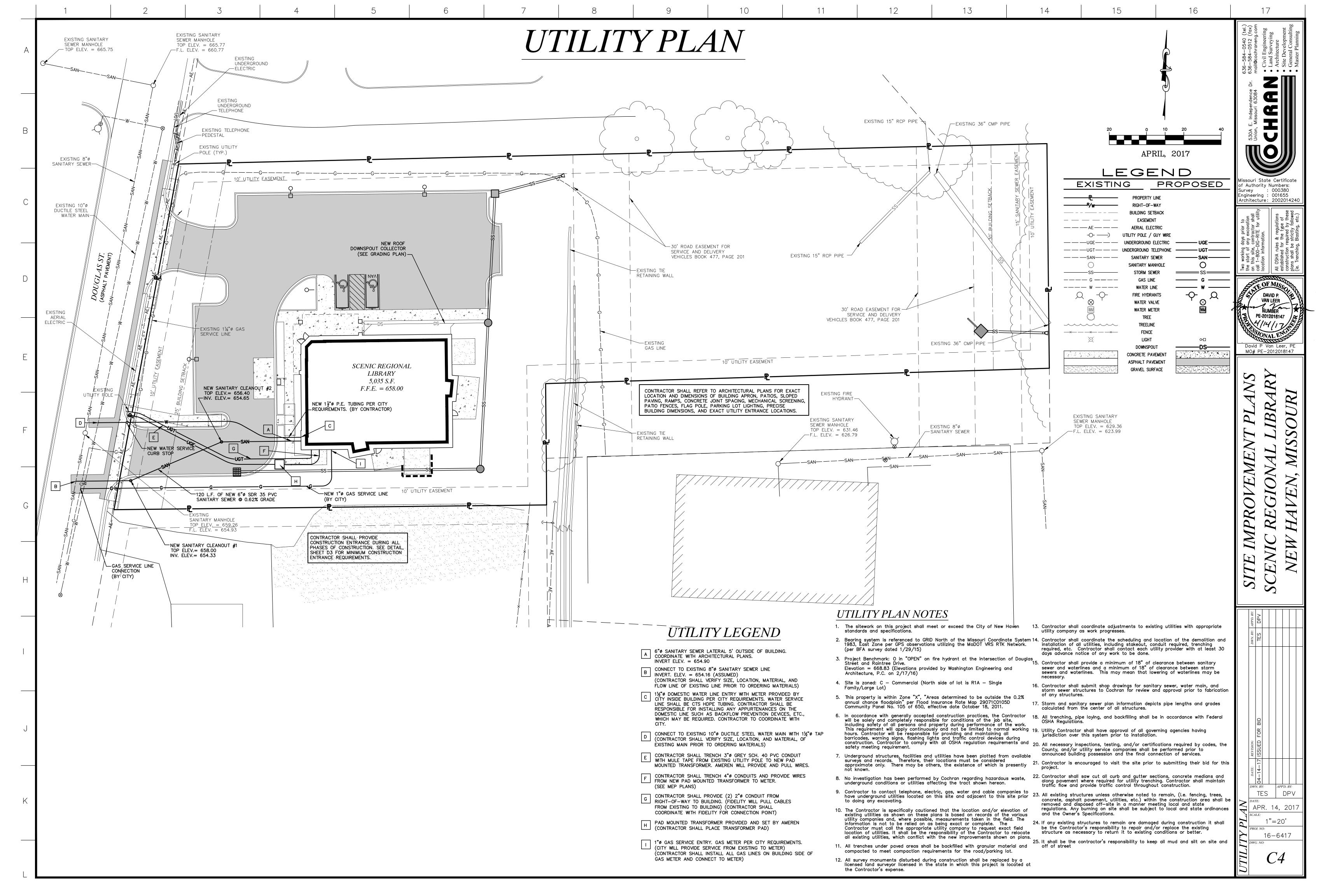
All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed ie. Trenching, Blasting, etc.)

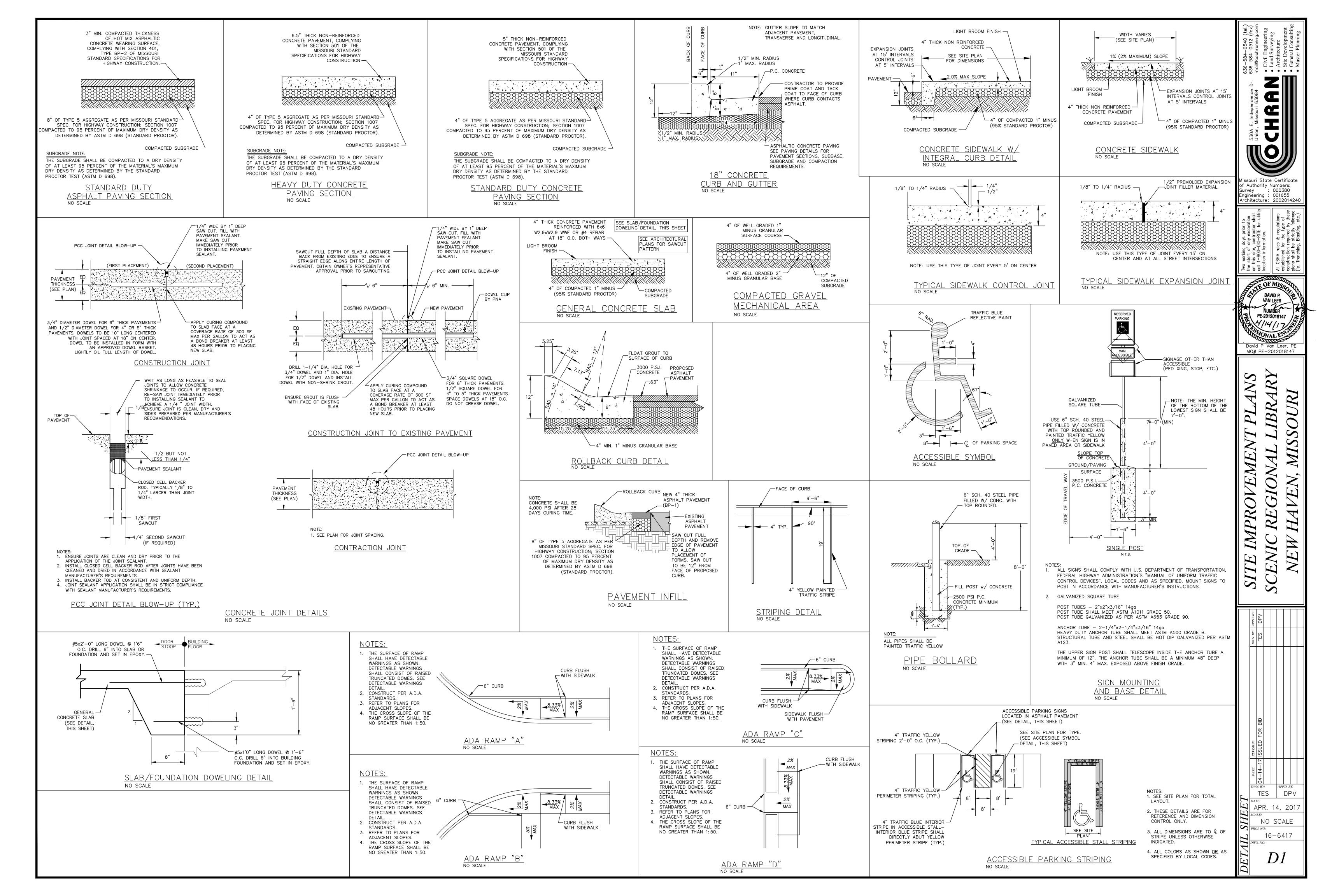


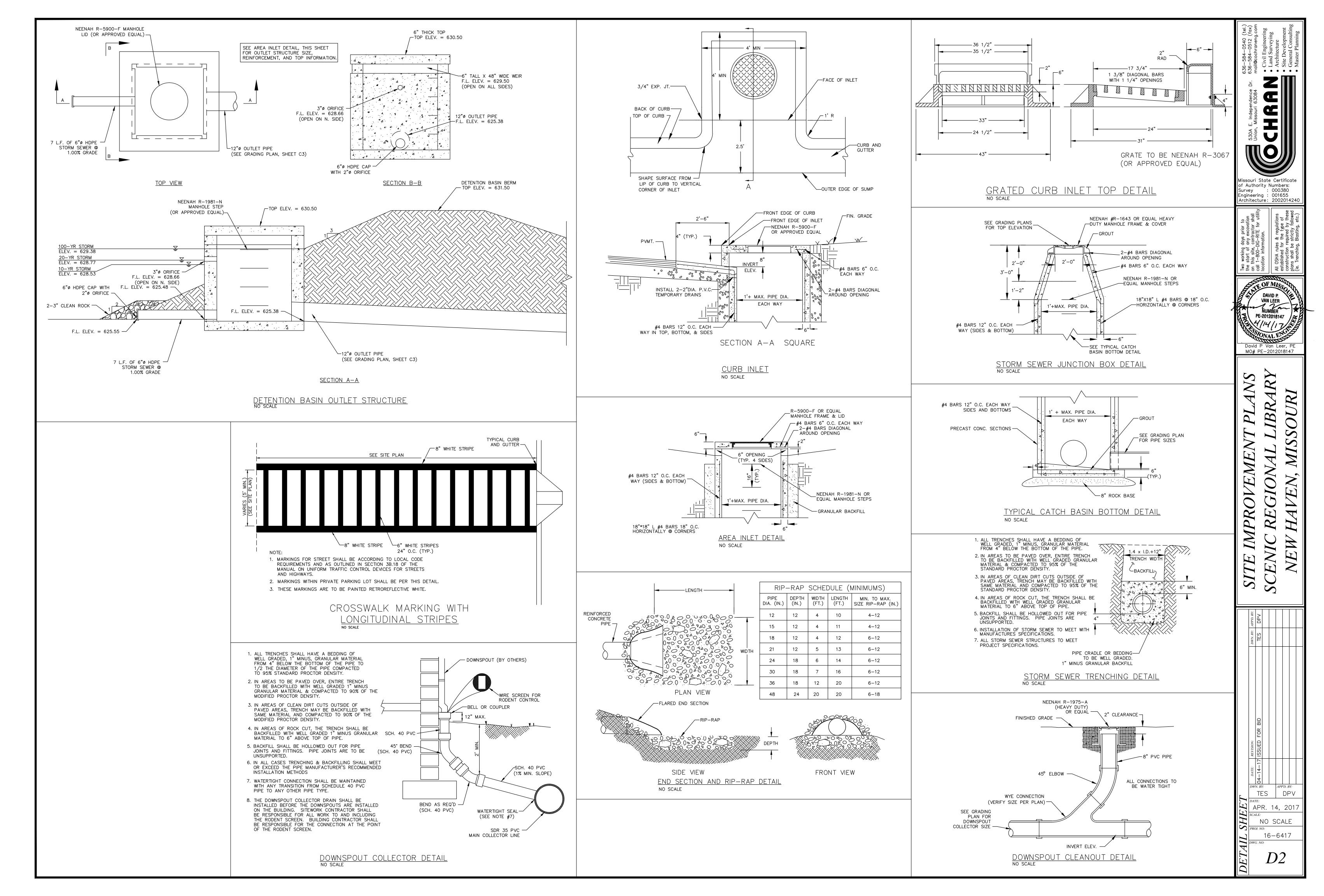


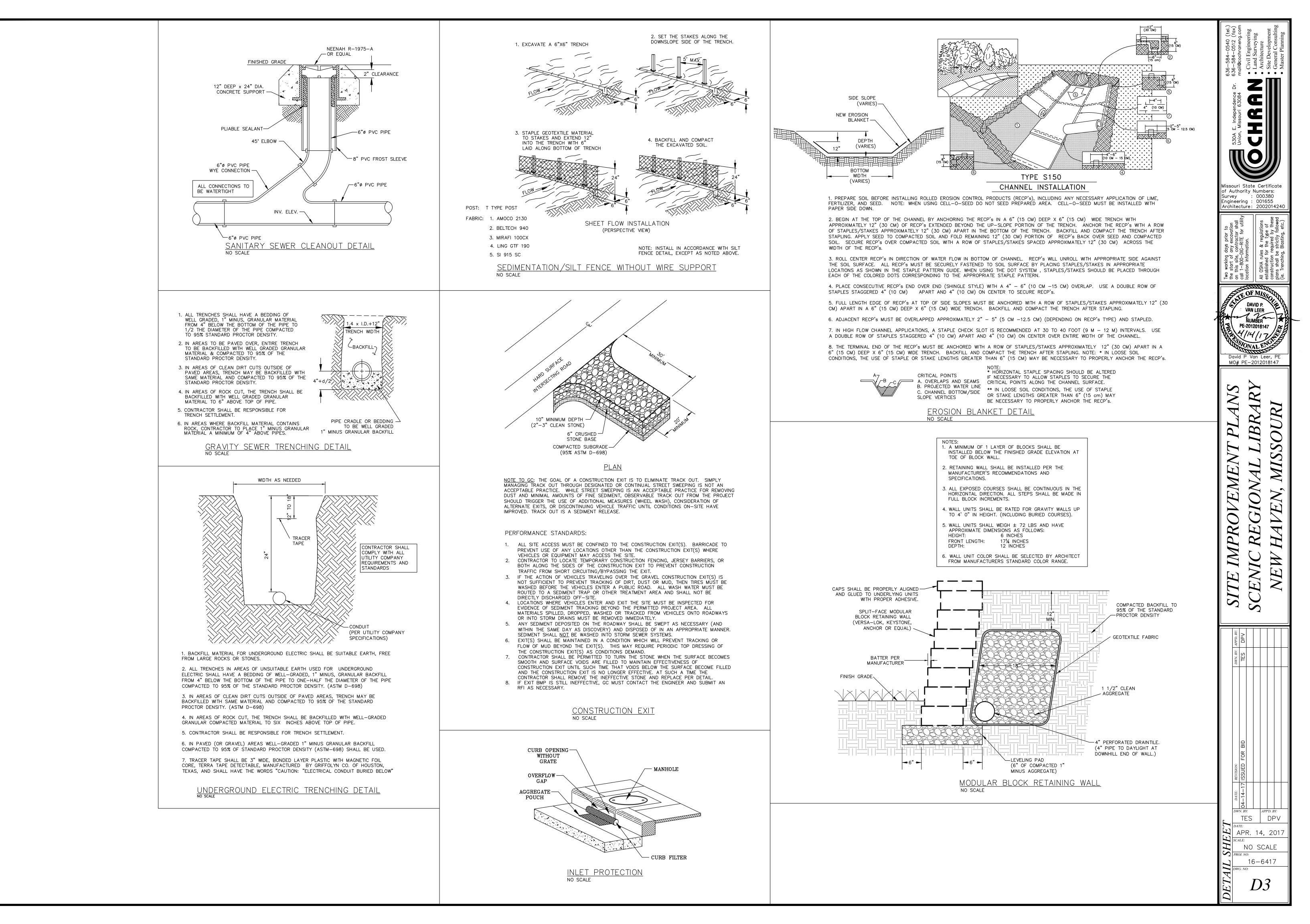


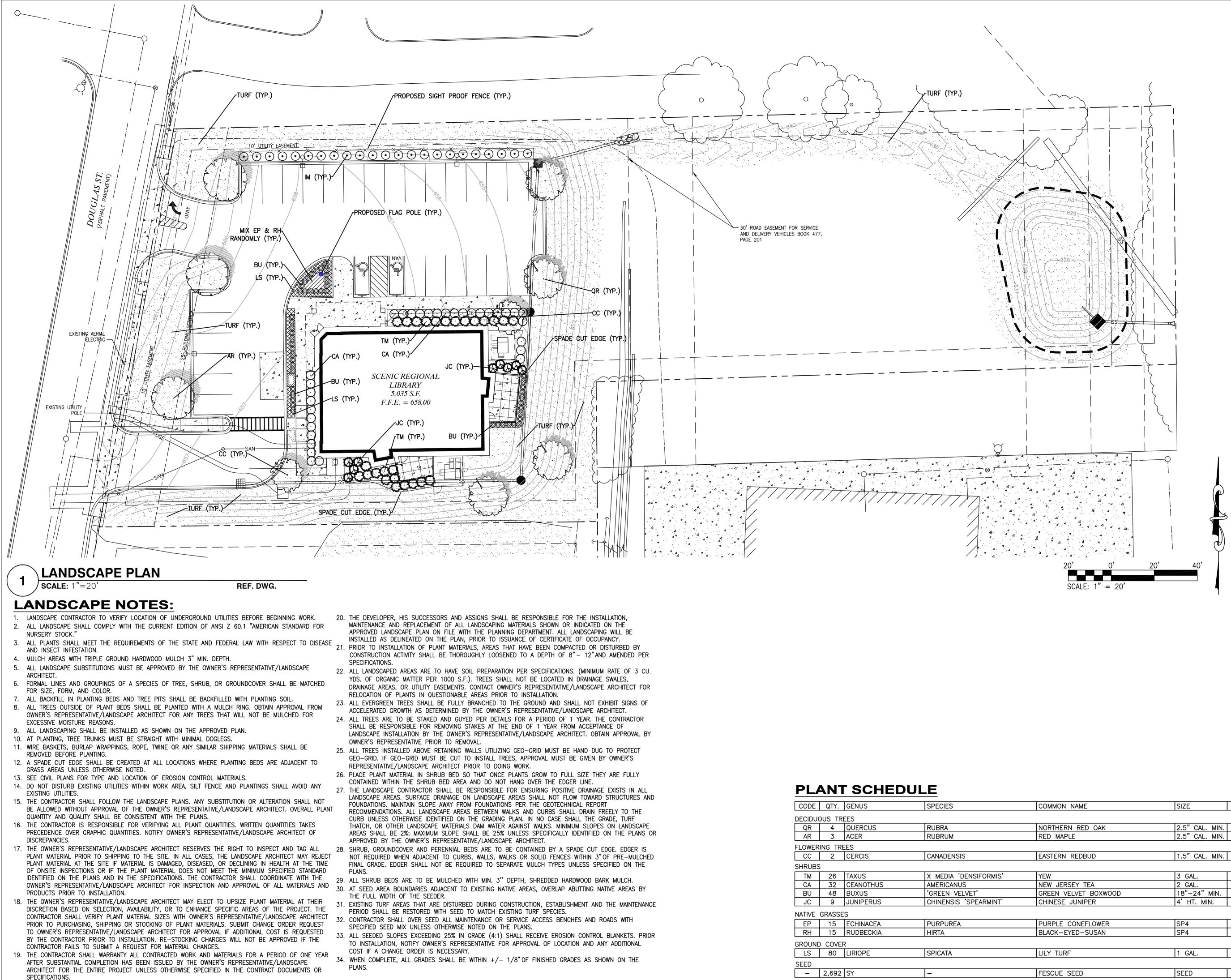












CODE	QTY.	GENUS	SPECIES			
DECIDU	DECIDUOUS TREES					
QR	4	QUERCUS	RUBRA			
AR	3	ACER	RUBRUM			
FLOWER	ING TRE	EES				
CC	2	CERCIS	CANADENSIS			
SHRUBS	5					
TM	26	TAXUS	X MEDIA 'DENSIFORMIS'			
CA	32	CEANOTHUS	AMERICANUS			
BU	48	BUXUS	'GREEN VELVET'			
JC	9	JUNIPERUS	CHINENSIS 'SPEARMINT'			
NATIVE	GRASSE	S				
EP	15	ECHINACEA	PURPUREA			
RH	15	RUDBECKIA	HIRTA			
GROUNE	GROUND COVER					
LS	80	LIRIOPE	SPICATA			
SEED	SEED					
_	2,692	SY	-			

COMMON NAME	SIZE	COND.	COMMENTS
 NORTHERN RED OAK	2.5" CAL. MIN.	B&B	
RED MAPLE	2.5" CAL. MIN.	B&B	
EASTERN REDBUD	1.5" CAL. MIN.	B&B	
1			
YEW	3 GAL.	CONT.	
 NEW JERSEY TEA	2 GAL.	CONT.	
GREEN VELVET BOXWOOD	18"-24" MIN.	CONT.	PLANT 30" O.C.
CHINESE JUNIPER	4' HT. MIN.	B&B	
PURPLE CONEFLOWER	SP4	CONT.	18" O.C.
BLACK-EYED-SUSAN	SP4	CONT.	18" O.C.
 LILY TURF	1 GAL.	CONT.	18" O.C.
 FESCUE SEED	SEED	_	

	ONAL	Ц	2011 266T	33068	
	CENIC REGIONAL RRARY			EN, MO	
	SCENIC I IRRARY		200 DOLIGI AS STREE	NEW HAVEN, MO 63068	
j	E N	1/	7	sd	5
JEMA 3005 L	TECT-OF-F OCUST ST UIS, MO 6		<u>)</u>	ARCHIT	EC
T (314) CONTA E-MAIL	S31-7400 ACT: SCOT SCLARK	T CLAR @JEMA		М	
SAPP [3750 S SPRING T (417)	N ARCHIII DESIGN AS OUTH FRE GFIELD, M 877-9600 877-9696	SOCIAT EMONT		CHITECTS	
CONTA E: STUI	ACT: JAME FFLEBEAN				M
UNION CONTA	RAN 1. INDEPEN 1, MO 6308 ACT: DAVE 1 584-0540	4			
E-MAIL	584-0512 : DVANLE : <u>TURAL</u> AUDI, INC	-	CHRAN	.COM	
ST. LO T (314) F (314)	ORMAN C UIS, MO 6 432-8600 807-2774 ACT: STEV	3146			
E-MAIL MECHA BRIC P	ANICAL, EL ARTNERS	HRETT@ _ <u>ECTRIC</u> HIP, LLC	∂ALPER CAL, PLU	JMBING	M
KIRKW T (314) CONTA	00D, M0 725-5889 0CT: BRU0 0LEMAN@	63122 De Cole	EMAN		1
No.	Date		Desc	ription	
	04/14/1	7 159		FOR BI	D

AWING SYVBOL	<u>.SLEGEND:</u>		EMATIONS LEGEND	-		DEFINITION OF
		A AFF ACT	ABOVE FINISHED FLOOR ACOUSTICAL CEILING TILE ALTERNATE	M Max Mech Mep	MAXIMUM MECHANICAL MECH., ELECT., AND PLUVBING	 THE WORD "CLIEN CONTRACTED THE THE WORD "PROJE DESCRIBED IN THE
		ALT ALUM	ALUMNUM			3. THE WORDS "CONT
 	GRIDLINES	APPROX ARCH	APPROXIMATE(LY) ARCHITECT(URAL)	MTL MN	METAL MINIMUM	DOCUMENTS REFE THE WORK DESCRI
		В		MSC	MSCELLANEOUS	4. THE GENERAL CON
		BLKG BLDG	BLOCKING BUILDING	N NIC	NOT IN CONTRACT	JEVA 5. THE WORDS "CONS
	MEWTITLE	BD	BOARD	NTS	NOT TO SCALE	CONSTRUCTION PH
ALE		С		0		CONSULTANTS; THE CONTRACTOR AND
		afa	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	ARCHITECT. 6. THE WORD "ALIGN"
	NORTHARROW	C alg	CENTERLINE CEILING	OFOI	OWNER FURNISHED, OWNER INSTALLED	7. THE WORD "PROME
		CT CIR	CERAMC TILE CLEAR	CC CH	ON CENTER OPPOSITE HAND	8. THE WORD "CLEAR NOT ADJUSTABLE V
		CONC	CONCRETE CONTINUE, CONTINUOUS	OPG OPP	OPENING OPPOSITE	TYPICALLY TO FINIS BOARD HEATERS O
	REFERENCE TO	CJ	CONTROLJOINT		OFFORTE	9. THE WORD "MAXIM.
A-201	INFORMATION ENLARGED	CORR	CORRIDOR	P PLAM	PLASTICLAMNATE	CONDITION IS SLIG GREATER THAN TH
	ELSEWHERE	d Dia	DIAVETER	PT PTN	PAINT(ED) PARTITION	10. THE WORD "MINIML IS SLIGHTLY ADJUS
М		DM	DIMENSION(S)	PWD	PLYWOOD	THAT SHOWN WITH 11. THE WORD "TYPICA
	SECTION REFERENCE	E EA	EACH	Q QTY	QUANTITY	OR DIMENSION IS TI 12. THE SYVBOL "+/-" A
		ELEC ELEV	ELECTRIC(AL)			IS ADJUSTABLE TO, MORE THAN 1" FRO
		EQ	ELEVATION EQUAL	R RCP	REFLECTED CEILING PLAN	
	ELEVATION - SINGLE REFERENCE	EQUIP EXP	EQUIPVENT EXPANSION	REF REINF	REFERENCE REINFORCE(D)	
		ej Exist	EXPANSION JOINT EXISTING	REQ REV	REQUIRED REVISION	GENERAL NOTE
		EXT	EXTERIOR	RB	RESILIENT BASE	1. REVIEWCEILINGLA
1	ELEVATION - MULTIPLE REFERENCES	F FIN	FINSH(ED)	S SAB	SOUND ATTENUATION BATTS	STRUCTURAL, ELEC BEFORE PROCEED
		FINFLR FE	FINSHED FLOOR FIRE EXTINGUISHER	SC SF	SOLID CORE SOLIARE FOOT (FEET)	2. U.N.O. ALL NEWSUS ACT-1. CENTER GRI
	ROOMNUVBERTAG	FEC	FIRE EXTINGUISHER	SIM	SIMLAR	PLAN. REFERTOFI
ROOM		CABINET FLR	FLOOR	SPEC SQ	SPECIFICATION SQUARE	3. INSTALL NEW CEILI ACCORDANCE WITH
-FLOOR NUMBER		FD FLUOR	FLOOR DRAIN FLUORESCENT	SQFT STL	SQUARE FOOT (FEET) STEEL	A-001. 4. U.N.O. LOCATE DOV
		FOS FRT	FACE OF SHEATHING FIRE-RETARDANT TREATED	SUSP SYM	SUSPEND(ED) SYMVETRICAL	5. CONTRACTOR TO V
- SUFFIX AS REQU COMNUMBER	DOORNUMBERTAG	G		Т		CEILINGS. COORDI 6. REFER TO LIGHT FI
		GA GC	GAUGE GENERAL CONTRACTOR	TFCI	TENANT (CLIENT) FURNISHED, CONTRACTOR INSTALLED	7. U.N.O. ALL G.W.B.C
— SUB-TYPE	PARTITION TYPE TAG	GYPBD	GYPSUMBOARD	TFTI	TENANT (CLIENT) FURNSHED, TENANT INSTALLED	8. VERIFY EXACT LOC
PE DESIGNATION		H			TELEPHONE	COORDINATE WITH
	KEYNOTE TAG	HCP HDW	HANDICAPPED HARDWARE	TEMP TOS	TEVPERED TOPOF STRUCTURE	9. U.N.O. INSTALL LINE 10. U.N.O. ALL SPRINKL
		HT HC	HEIGHT HOLLOWCORE	TOW TYP	TOP OF WALL TYPICAL	CENTER ALL SPRIN 11. REFER TO ELEVATION
	WINDOWTAG	HM HOR	HOLLOWMETAL HORIZONTAL	U		FIXTURES. 12. COORDINATE AND \
	FINSHTAG	HR HVAC	HOUR HEATING, VENTILATION,	UL	UNDERWRITERS LABORATORIES, INC.	WITH ARCHITECT B 13. REFER TO ELECTRI
		-	ANDARCONDITIONING	UNO	UNLESS NOTED OTHERWISE	14. ALL EXPOSED CELL 15. U.N.O. ALL G.W.B. C
	REMSION CLOUD	I INCL	INCLUDE(D)	V VERT	VERTICAL	16. ELECTRICAL CONTR
ſ	AND DELTA	INSUL INT	INSULATION INTERIOR	W		10. LICCATIONS WITH A 17. U.N.O. LICHTINGIN
				WC	WALL COVERING WITH	18. U.N.O. ALL LIGHT FIZ SWITCHED SEPARA
		L Л	JOINT	W WO	WITHOUT	COVERPLATE.
		L		WD	WOOD	19. U.N.O. POWER OUT BE BUILDING STAN
		LAM	LAMNATE			AND ADDITIONAL IN 20. IDENTIFY AND COO
						MECHANICAL DIFFL EXIT SIGNS, AUDION
	NT RECUREMEN					INSTALLATION 21. NOTIFY ARCHITECT
	SIGN CATEGORY "		1621 REQUIREMENTS, CISCA			22. ELECTRICAL CONTR
	ONES 0, 1 & 2, AND ASCE SECTIO		•			EXIT LIGHTING. EXI 23. ALL EXPOSED DUCT
	VETER, AND LATERAL SPLAY BI ATER THAN 144 S.F. SHALL BE BF		DAVCE WITH THE			24. U.N.O. PAINT ALL EX UNDERSIDE OF ROC
MNG:	TION STRENGTH LIMITS @MAIN					SYSTEMS PT-2.
PROMDEMN. 12-GA	UGE VERTICAL HANGER WIRE A	T 4'-0'' O.C. MN.	גסושט.			
1 IN 6 MAX. PLUVBC	ATION TO BE INTERVEDIATE- O OF VERTICAL HANGER WIRES RE	QUIRED.			EQUIPMENT LEGEND:	
NO. 12 GA HANGER	/8" PERIMETER CLOSURE (MOLL WIRES AROUND ENTIRE PERIME	TER OF CEILING	GAT EACH TEE AT A MAX. OF			
TOWALLORSTRUC		MURE THAN 1-IN	16 OUT OF PLUVB; ATTACH			
GRID CONNECTION	RIDEND TO WALL CLEARANCE. TO PERIMETER ATTACHED ON T	WOADJACENTV	VALLS IS NOT PERMITTED.		$\bot _ J$ COORDINATE WITH CL	LECTRICAL AND PLUMBING. JENT FOR SPECIFICATION
TIE PERIMETER TEE PARTITION ATTACH	ENDS TOGETHER. VENT IS ALLOWED ONLY OF CEIL	INGISABLETOI	MOVE LATERALLY.		AND ADDITIONAL REQ	UREMENTS.
TXTURE ATTACHMEN					F = = = = = = = = = = = = = = = = = = =	<u>).):</u> .DUPLEX RECEPTACLE.
	ACHALL LIGHT FIXTURES TO CE	iling grid. Atti	ACHVENTS MUST SUPPORT			JENT FOR SPECIFICATION
SURFACE-MOUNTEE	URE WEIGHT.) FIXTURES DO NOT REQUIRE AT :HUNG FIXTURES DIRECTLY FRO					
APPROVED ALTERN	ATE.					LECTRICAL AND PLUMBING.
STRUCTURE (MAY B	R CAN LIGHT FIXTURES WEIGHIN E SLACK). FOR RIGDLAY-IN OR	CANLIGHT FIXTL	JRESWEIGHING FROM 10 TO		COORDINATE WITH CL AND ADDITIONAL REC	JENT FOR SPECIFICATION UREVENTS.
GREATER THAN 56 F	E (2) VERTICAL SUPPORT WIRES POUNDS PROMDE DIRECT AND II				=== MCROWAVE (T.F.T.I.):	
STRUCTURE.					MM_ PROMDE REQUIRED E	LECTRICAL COORDINATE
<u>E APPLICATIONS:</u> ALL MECHANICAL AI	R TERMINALS MUST BE POSITIVI		OTHE CELLING GRID. FOR		REQUIREMENTS.	ECIFICATION AND ADDITIONAL
ERMNALSWEIGHN	VG FROM 20 TO 56 POUNDS PRO VALS WEIGHING GREATER THAN	MDE (2) VERTICA	AL SUPPORT WIRES (MAY BE		F = = = = = <u>VENDING-SNACK (T.F.</u>	
NDEPÉNDENT SUPF	ORT FROMTHE BUILDING STRU ND OTHER PENETRATIONS REC	CTURE.				LECTRICAL COORDINATE

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

WITH CLIENT FOR SPECIFICATION AND ADDITIONAL REQUIREMENTS.

EFINITION OF TERVIS:

- THE WORD "CLIENT" AS USED IN THESE DOCUMENTS REFERS TO THE ENTITY WHO HAS CONTRACTED THE ARCHITECT TO PERFORM PROFESSIONAL SERVICES ON THIS PROJECT. THE WORD "PROJECT" AS USED IN THESE DOCUMENTS REFERS TO THE SCOPE OF WORK DESCRIBED IN THESE DOCUMENTS.
- THE WORDS "CONTRACTOR", "GENERAL CONTRACTOR", AND "G.C." AS USED IN THESE DOCUMENTS REFER TO THE GENERAL CONTRACTOR SELECTED BY THE CLIENT TO PERFORM THE WORK DESCRIBED IN THESE DOCUVENTS. ALL NOTES IN THESE DOCUVENTS INSTRUCT THE GENERAL CONTRACTOR
- THE WORD "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO ARCHITE-OF-RECORD, JEVA
- 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
- ARCHITECT. 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 DOCUVENTS 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 DIVENSIONS 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 "MINIMUM" OR "MIN" 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 SIMILAR 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.

ENERAL NOTES: REFLECTED CEILING PLAN

- REVIEW CEILING LAYOUT AS SHOWN AND NOTIFY ARCHITECT OF ANY CONFLICTS WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PIPEWORK, FIRE PROTECTION SYSTEVS, 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 CELLINGS TO COVPLY WITH ALL SEISMC RESTRAINT REQUIREMENTS IN
- ACCORDANCE WITH ALL LOCAL BUILDING CODES. REFER TO SEISMC INFORVATION ON SHEET A-001. 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. CELLINGS TO BE PANTED 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. CELLINGS.
- U.N.O. ALL SPRINKLER HEADS IN G.W.B. AND A.C.T. CEILINGS TO BE FULLY RECESSED TYPE.
- CENTERALL 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, THERMOSTATS, FIRE ALARVS, 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 RESTROOVS, SHOWER ROOVS AND OTHER WET LOCATIONS TO BE MOISTURE RESISTANT.
- ELECTRICAL CONTRACTOR TO COORDINATE SWITCHING AND DIMMING REQUIREMENTS AND LOCATIONS WITH ARCHITECT U.N.O. LIGHTING IN EACH ROOM TO BE SWITCHED FROM ONE LOCATION WITHIN THAT ROOM
- U.N.O. ALL LIGHT FIXTURE TYPES WITHIN EACH ROOM OR OPEN OFFICE AREA TO BE SWITCHED SEPARATELY. GANG ALL SWITCHES IN EACH ROOMUNDER A SINGLE
- COVERPLATE U.N.O. POWER OUTLETS, COMMUNICATIONS RECEPTACLES, COVER PLATES, DEVICES, ETC. TC BE BUILDING STANDARD HEIGHT. REFER TO ELECTRICAL SHEETS FOR ELEC/COMMSY/BOLS AND ADDITIONAL INFORMATION.
- IDENTIFY AND COORDINATE LOCATIONS FOR ALL CEILING ELEVENTS INCLUDING LIGHTING. MECHANICAL DIFFUSERS, RETURNAIR GRILLES, FIRE PROTECTION DEVICES, ACCESS PANELS, EXIT SIGNS, AUDIOMSUAL EQUIPMENT, SECURITY DEVICES, ETC. WITH ARCHITECT BEFORE INSTALLATION.
- NOTIFY ARCHITECT OF ANY REQUIREVENTS 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 RIGD 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 SUBMT TO ARCHITECT ALL MATERIALS IN FINISH LEGEND. REFER TO PLANS, ROP, ELEVATIONS, FINSH SCHEDULE, DOOR SCHEDULE, AND DETAILS FOR FINISH INFORVATION AND LOCATIONS. SAVPLES TO BE THE SPECIFIED COLOR AND FINSH FOR REVIEW. SUPPLY AMNIMUMOF FIVE COPIES OF EACH ITEM ARCHITECT,
- GENERAL CONTRACTOR, SUB-CONTRACTOR, FIELD COPY, AND CLIENT. REFER TO PLANS, ROP, FINISH LEGEND, AND DETAILS TO VERIFY FINISHES. REFER TO ELEVATIONS FOR ADDITIONAL FINISH INFORVATION OR WHERE MULTIPLE FINISHES ARE INDICATED ON PLAN FOR THE SAVE WALL
- THE FINISH NAME TAKES PRECEDENT OVER THE FINISH PRODUCT NUMBER WHEN ORDERING MATERIALS. CONTACT ARCHITECT WITH DISCREPANCIES BEFORE ORDERING MATERIALS.
- IDENTIFY AND INFORM CONSTRUCTION TEAM OF ALL CRITICAL PATH ITEMS, CRITICAL DEADLINES, AND DATE OF SUBSTANTIAL COVPLETION.
- PATCH AND REPAIR EXISTING FINISHES AS REQUIRED WHERE DEVOLITION 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 DAVAGE OCCURS RELATED TO THE CONSTRUCTION OF THE SCOPE OF WORK
- ALL INTERIOR FINISH AND SUNDRIES TO MEET OR EXCEED CLASS II FLAVE SPREAD, 26 -75 AND SVOKE DEVELOPIVENT RATING LESS THAN 450 AND ALL OTHER APPLICABLE CODES.
- ALL IMPACT-RESISTANT PANELS TO BE CLASS 1 COMPONENTS. TESTED IN ACCORDANCE WITH UL-723 (ASTME849A) FLAVE SPREAD 20 OR LESS. SVOKE DEVELOPED 400 OR LESS. ALL VINYL WALL COVERING FIRE HAZARD CLASSIFICATION (ASTME-84) FLAVE SPREAD 5,
- FUEL CONTRIBUTION 0. SVOKE DENSITY FACTOR 5. MAINTAIN AND PROTECT EXISTING FLOORING AND FINISHES TO REMAIN DURING CONSTRUCTION. CLEAN AND PREPARE FLOOR AREA SCHEDULED TO RECEIVE NEW FLOORING SO THE AREAS ARE ABLE TO ACCEPT NEW FLOORING, AND MAINTAIN RECUIRED FLOOR ASSEVBLY RATING, TO BE FLUSH AND 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 11. BASE RB-1.
- U.N.O. ALL G.W.B. CEILINGS TO BE PAINTED PT-2. REFER TO REFLECTED CEILING PLAN 12 FOR ADDITIONAL CEILING FINISHES.
- U.N.O. ALL HOLLOW/METAL FRAVES TO RECEIVE PAINT PT-3. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- 14. 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 MINIMUM OF ONE (1) PRIVER COAT AND THEN TWO (2) FINISH PAINT COATS. TINT PRIVER COAT PERMANUFACTURERS SPECIFICATIONS.
- U.N.O. ALL PARTITIONS RECEIMING 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. 18
- 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 19.
- **ADHESIVE** 20 CLEAN AND PREPARE FLOOR AREA TO ACCEPT NEW FLOORING, MAINTAINING RECUIRED
- FLOOR ASSEVELY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEWFINISH.
- U.N.O. ALL FLOORING SHALL BE INSTALLED PERMANUFACTURERS 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 RB-1, 4" STRAIGHT AT CARPET AND 4" 23.
- 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.
- 26. REFER TO INTERIOR ELEVATIONS AND MILLWORK SECTIONS FOR FINISH INFORMATION. 27. U.N.O. ALL WALLCOVERING SHALL BE INSTALLED PERMANUFACTURERS 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 CAN NOT BE RESOLVED IN A TIMELY MANNER, CONTACT THE ARCHITECT.
- U.N.O. ALL CABINETS HARDWARE PULLS HW-1.
- 29. U.N.O. ALL MILLWORK BACKSPLASHES TO BE 4" TALL U.N.O. ALL EXPOSED ENDS AND OPEN MILLWORK TO MATCH FINISH OF EXTERIOR 30. MLLWORK.
- U.N.O. ALL MILLWORK INTERIORS TO BE WHITE MELAVINE.
- PAINT ALL PLYWOOD TO MATCH NEWWALL FINISH TO WHICH IT IS ATTACHED. 32 WOOD VENEERS TO BE APPLIED FLUSH AND SWOOTH TO SUBSTRATE WITH NO RIPPLING TOLERATED.
- NO GLUE UP WOOD BASE TOLERATED.
- ALL WOOD SHALL BE OF THE SAVE SPECIES AND SAVE OUT 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 MILWORK CONSTRUCTION TO COVPLY 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

REFLECTED CEILING SYMBOLS LEGEND:

	NEW 2x2 CEILING GRID AND TILE , SEE FINISH LEGEND
	NEW GYPSUM BOARD CEILING
Ο	2x2 FLUORESCENT LIGHT FIXTURE
0	2x4 FLUORESCENT LIGHT FIXTURE
\oslash	RECESSED CAN LIGHT FIXTURE
0	LINEAR PENDANT FIXTURE
0	DECORATIVE PENDANT FIXTURE
\square	SUPPLY DIFFUSER
	RETURN DIFFUSER
٢	EXITSIGN

GENERAL NOTES: ARCHITECTURA

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 DOCUVENTS PRIOR TO CONSTRUCTION AND AS AVENDVENTS 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 CONFORVANCE WITH APPLICABLE WRITTEN CODES, ORDINANCES, LAWS, RULES, REGULATIONS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. IF THE CONTRACTOR PERFORVIS OR PROCEEDS IN A MANNER CONTRARY TO ANY SUCH REQUIREMENTS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THEREFORE AND SHALL BEAR COSTS RESULTING FROM NONCOVPLIANCE OR MOLATION, INCLUDING COSTS ASSOCIATED WITH REPAIRING, REPLACING OR OTHERWISE BRINGING THE WORK INTO CONFORVANCE. 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 NICITEMS 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 DIVENSIONS, 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 ITEVS 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 ITEVIS SUPPORTED. WHERE WOOD BLOCKING IS USED IT IS TO BE FIRE RETARDANT TREATED. WHERE METAL IS USED PROMDE MN 1/8 INCH THICK PLATE, WELDED, SCREWED OR BOLTED TO METAL STUD FRAMING. IF PLATES ARE NOT LOCATED COMPLETELY BEHIND ITEMS SUPPORTED, LET PLATES INTO STUDS OR OTHERWISE CONFIGURE SO THAT THERE ARE NO VISIBLE BULGES IN SURFACE OF FINISHED GYPSUM BOARD DUE TO THICKNESS OF PLATES BETWEEN STUDS AND 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 FROM A METAL SURFACE FLOWS OVER A DISSIMILAR METAL, OR WHERE NON-PASSIVE METAL FASTENERS PENETRATE DISSIMILAR METALS, BREAK THE CONTACT BETWEEN MATERIALS WITH A HEAVY WATERPROOF PAPER OR FELT, A HEAVY COAT OF 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 CUTTING, 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 THERVAL MOVEVENTS WITHOUT VISIBLE 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 13 RETARDANT WOOD BLOCKING.

CONTRACTOR SHALL VERIFY ALL DIVENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB STE AND SHALL NOTIFY ARCHITECT OF ANY OMSSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE JOB. DO NOT SCALE DRAWINGS. DIVENSIONS GOVERN LARGE SCALE DETAILS GOVERN OVER SVALL

SCALE

PARTITIONS SHALL BE DIVENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE.

17 ALL DISSIMLAR METAL MATERIALS SHALL BE ISOLATED WITH A NON-METALLIC SEPARATOR. 18. ALL MATERIALS USED IN FIRE-RATED ASSEVBLIES SHALL BE APPROVED 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 19 2003, ADAAG AND DOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, WHICHEVER STANDARD PROMDES THE GREATEST DEGREE OF ACCESSIBILITY FOR ANY GIVEN BUILDING ELEMENT. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL 20.

KNOWLEDGE, OR EFFORT. THE OPERATION OF THE SECURITY DEVICES SHALL BE COMPLIANT WITH THE CODES. 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 22. 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. 23.

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 U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROMBOTH 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 26. DOORS SHALL HAVE THE MINIMUM OPENING 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. 27.

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.

28. EACH GLAZING UNIT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. GLAZING LOCATED WITHIN 24" OF A DOOR AND LESS THAN 60" ABOVE WALKING SURFACE SHALL BE SAFETY GLAZED.

29. ACCESSIBLE TOILET FACILITIES SHALL BE IDENTIFIED WITH A SIGN, PROMDED BY OWNER AND INSTALLED BY CONTRACTOR

ALL BUILDING ENTRANCES / EXITS ARE ACCESSIBLE. 30 31

ACCESSIBLE DOORS SHALL HAVE A LANDING ON BOTH SIDES. LANDINGS SHALL BE NOMORE THAN 1/2 INCH BELOW THE TOP OF THE DOOR THRESHOLD.

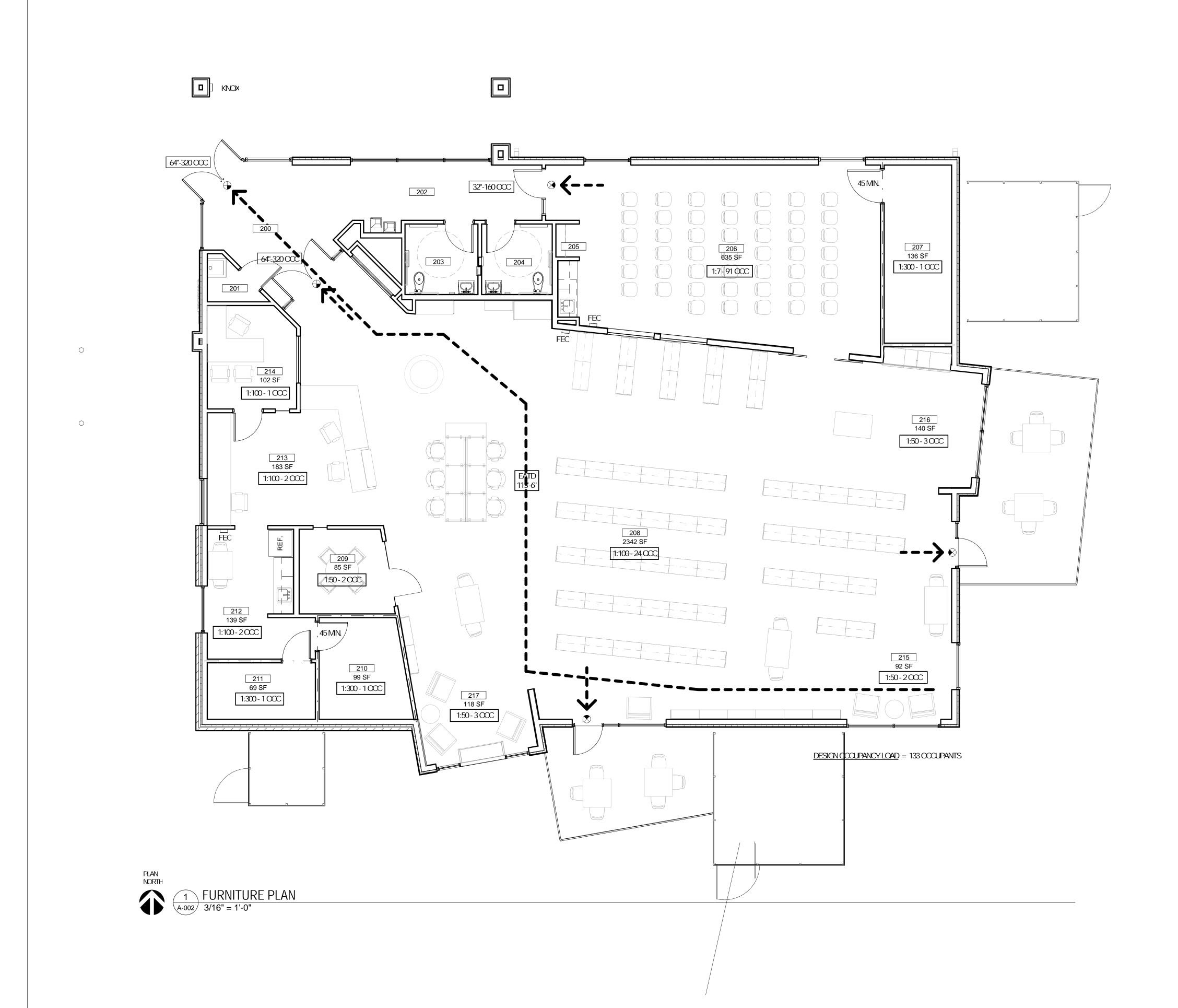
DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE ON THE LOWER 10 INCHES. FOR CORNER GUARD LOCATIONS & INFORMATION REFERENCE THE FINISH LEGEND AND FINISH 33. PLAN.

34. REFER TO AWI STANDARDS FOR MLLWORK CONSTRUCTION.

INSTALL MOISTURE RESISTANT GYP. BOARD AT ALL WALLS, INCLUDING BUT NOT LIMITED TO 35. 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.





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CODE INFORMATION

HORITIES HAMING JURISDICTION:	CITY OF NEW HAVEN, MO (FRANKLIN COUNTY) NEW HAVEN-BERGER FIRE PROTECTION DISTRICT
LDING CODE:	INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION, INCLUDING APPENDIX CHAPTERS A, C, G AND I.
ESSIBILITY:	AVERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE
E PREVENTION:	INTERNATIONAL FIRE CODE (IFC) 2009 EDITION.
CHANICAL:	INTERNATIONAL MECHANICAL CODE (IMC) 2009 EDITION
<u>CTRICAL:</u>	NATIONAL ELECTRICAL CODE 2008 EDITION.
MBING	INTERNATIONAL PLUVBING CODE (IPC) 2009 EDITION,
OPERTY MAINTENANCE:	INTERNATIONAL PROPERTY MAINTENANCE CODE (IPVC) 2009 EDITION
<u>2</u>	INTERNATIONAL FUEL GAS CODE 2009 EDITION.

BUILDING INFORMATION	l	RATINGS	
USE GROUPS A-3 ASSEMBLY, LIBRARY S-1 MODERATE HAZARD STORAGE (ACCESSORY SAFETY PLAN	'USE, SEE LIFE I, SHEET A002)	<u>ELEVENT:</u> COLUMN CORRIDOR DOOR FLOOR	RATING OHOUR OMNUTE OMNUTE OHOUR
<u>CONSTRUCTION TYPE:</u> TYPE IIB NON-SPRINKLERED, NOT PROTECTED		STORAGE	OHOUR J
<u>SEISMC CATEGORY:</u> C REFER TO CISCA GUIDELINES FOR REQUIREN	VENTS		ARC
<u>AREA:</u> FLOOR ACTUAL GSF DESIGN OCCUPANCY: FIRST FLOOR 4,989 SF 133 OCCUPANTS			JEN 300 ST. T (3 CO
<u>ALLOWABLE HEIGHT AND AREA:</u> USE GROUP A-3 IS MOST RESTRICTIVE USE. ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AI	ND 9,500 SF.		E-M DES SAF
			375 SPF T (4 F (4
<u>FIRE RESISTANCE RATINGS-HOURS:</u> BUILDING ELEVENT TYPE	TYPE IIB		
STRUCTURAL FRAVE, COLUMNS, GRDERS & TRUSSES BEARING WALLS - EXTERIOR / INTERIOR NON-BEARING WALLS & PARTITIONS -INTERIOR FLOOR CONSTRUCTION INCLUDING BEAVIS & JOIST ROOF CONSTRUCTION INCLUDING BEAVIS & JOIST	0 0 0 0 0		
EXIT CAPACITY THE EXIT CAPACITY FOR EACH FLOOR AREA MUST BE SUFFIC OCCUPANT LOAD AS CALCULATED. EXIT CAPACITY IS DETERN DIVIDING THE CLEAR WIDTH OF EACH EXIT COVPONENT BY T FACTOR NOTED BELOW	MINEDBY		F (6 E-M SIF ALF 180 ST.
DOORS/AISLES - 0.20" PER OCCUPANT			T (3) F (3) C (3)
IBC OCCUPANCY CALCULATIONS:			E-M
OCCUPANCY TYPE:	AREAPEROC	CUPANT	BRi 343
GENERAL LIBRARY STACK AREA READING ROOV(S) MEETING ROOV(S) (CONCENTRATED CHAIRS ONLY)		100 SF 50 SF 7 SF	
SECTION 903 AUTOMATIC SPRINKLER SYSTEM			
903.2.1.3 GROUP A-3, NONE OF THE (3) CONDITIONS PERTAIN AN AUTOMATIC SPRINKLER SYSTEM IS NOT REQUIRED.	TO THE PROJECT	THEREFORE	
 SECTION 903.2.1.3 GROUP A:3 AN AUTOMATIC SPRINE FOR GROUP A:3 OCCUPANCIES WHERE ONE OF THE I 1. THE FIRE AREA EXCEEDS 12,000 SQUARE F 2. THE FIRE AREA HAS AN OCCUPANT LOAD COR 	FOLLOWING CON TEET (1115 M2);		

OR 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:

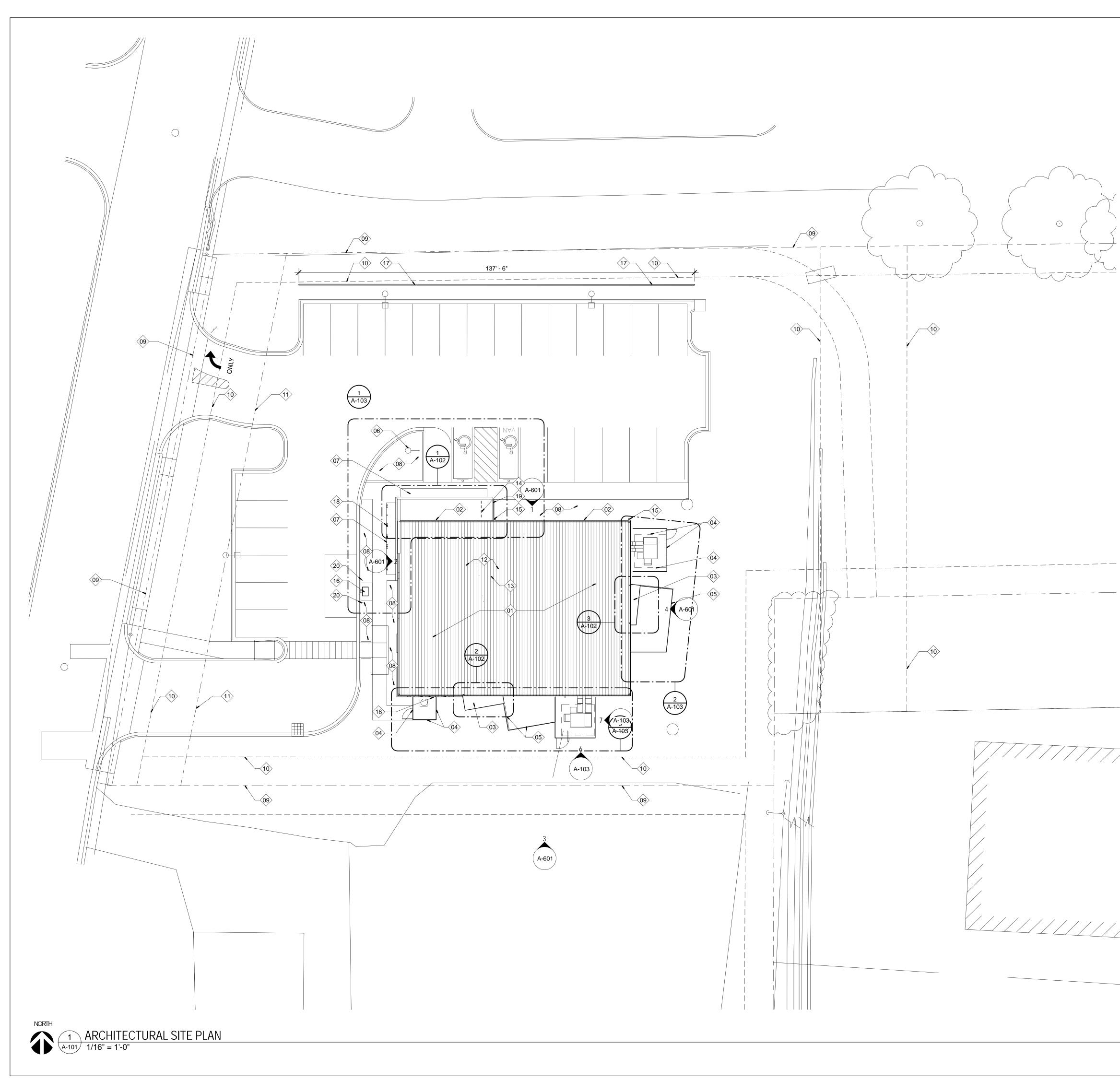
FOR NON-SPRINKLERED ASSEVBLY USE GROUP THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 200.

SYMBOL LEGEND

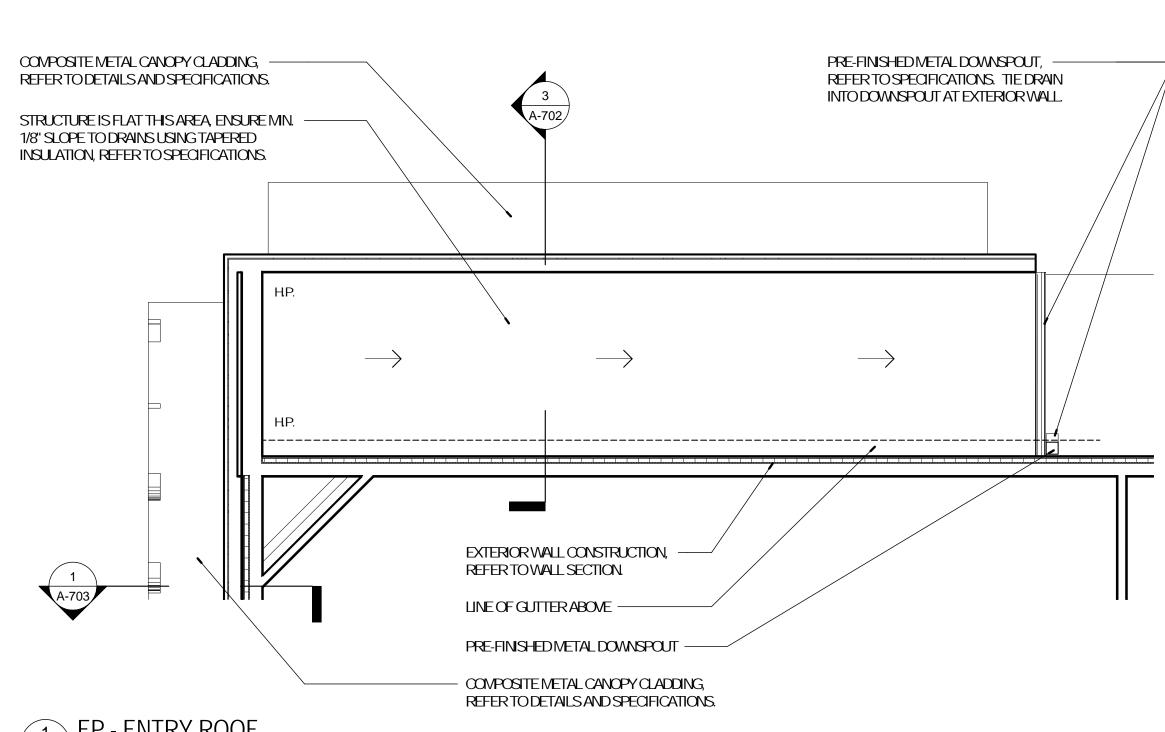
	1-HOUR RATED WALL PARTITION
	RECESSED KNOX BOX CABINET
FEC	SEM-RECESSED FIRE EXTINGUISHER CABINET
	EGRESSPATH
XX-XCCC	XOCC= AREA PER OCCUPANCY LOAD
XX" - X CCC	XX= CLEAR OPENING IN INCHES AND EGRESS CAPACITY
EATD X-X'	EXIT ACCESS TRAVEL DISTANCE, MAX. CONDITIONWORST CASE INDICATED
	EXITSIGN
	DIRECTION/LOCATION OF EGRESS

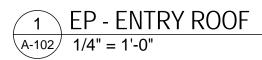
RO	ROOM SCHEDULE								
NUMBER	NAME								
	-								
200	VESTIBULE								
201	JANITORS CLOSET								
202	CORRIDOR								
203	WOMENS								
204	MENS								
205	COATS								
206	MEETING								
207	STORAGE								
208	CIRCULATION								
209	STUDY								
210	STORAGE								
211	MECH / ELEC								
212	BREAK ROOM								
213	WORK ROOM								
214	OFFICE								
215	TEEN AREA								
216	CHILDREN AREA								
217	ADULT								

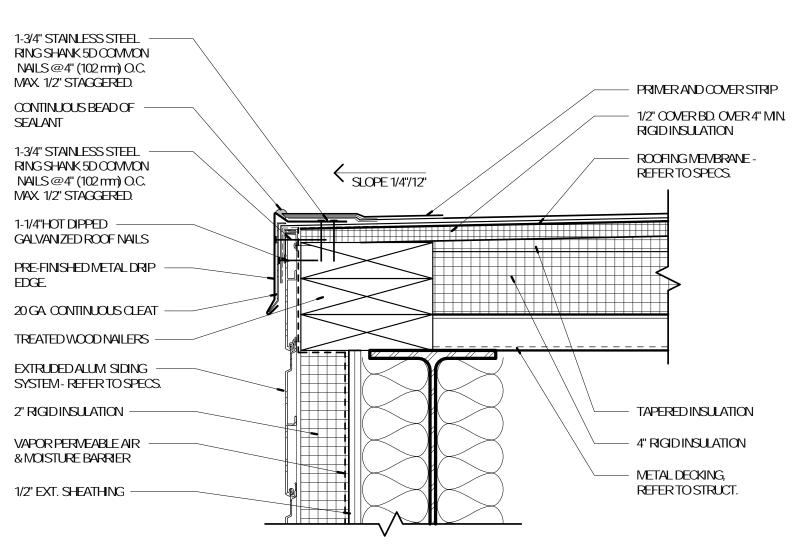
Scenic Regional Library read, explore, grow
SCENIC REGIONAL LIBRARY NEW HAVEN BRANCH 200 DOUGLAS STREET NEW HAVEN, MO 63068
JERMA planning architecture interior design
ARCHIECT-OF-RECORD JEMA 3005LCOLST ST. ST. LOUS, MO63103 T (314) 531-7400 CONTACT: SOOTT CLARK E-MAIL: SOLAPK@JEMASTLCOM DESIGNARCHIECT SAPP DESIGNASSOCIATES ARCHIECTS 3750 SOUTH FREMONT SFRINGFIELD, MO66804 T (417) 877-9896 CONTACT: JAWES STUFFLEBEAM E STUFFLEBEAM@SDAARCHTECTS.COM CML COCHRAN 300AE INDEPENDENCE DRVE UNON MO63084 CONTACT: DAVE VANLEER T (636) 584-0612 E-MAIL: DVANLEER@COCHRANCOM STRUCTURAL ALPERAUD, INC 1804 BORMANOROLE DRVE ST. LOUS, MO63146 T (314) 432-8800 F (314) 807-2774 CONTACT: STEVELEH-RETT E-MAIL:
JOHNEDWARD MUELLER MOARCHITECTURAL LICENSE A2010039554 MOCERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID
DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.01
SHEET TITLE LIFE SAFETY PLAN A-002



		Scenic Regiona Library read, explore, grow
	KEYED NOTES - SITE PLAN	
Keynote Number	Description	
01	STANDING SEAM MTL. ROOF SYSTEM, REFER TO SPECS.	
02 03	PRE-FINISHED GUTTER, REFER TO SPECS. ROOFING MEMBRANE, REFER TO SPECS.	
04	MECHANICAL SCREEN FENCING - REFER TO SPECIFICATIONS AND DETAILS	SCENIC REGIONA LIBRARY NEW HAVEN BRANCH 200 DOUGLAS STREET NEW HAVEN, MO 63068
05 06	PRE-FINISHED ALUM. FENCE - REFER TO SPECIFICATIONS SINGLE FLAGPOLE, REFER TO SPECS.	
07	PRE-FINISHED COMPOSITE METAL PANEL CANOPY, REFER TO SPECS.	
08 09	PLANTING AREA, REFER TO LANDSCAPE PLAN. PROPERTY LINE	
10 11	EASEMENT BUILDING SETBACK LINE	
12 13	EXHAUST FAN PIPING PENETRATION, SEE ROOF DETAIL. PLUMBING EXHAUST PIPING PENETRATION, SEE ROOF DETAIL.	NEV NEV NEV
14 15	SURFACE MOUNTED BIKE RACK, REFER TO SPECS. DOWN SPOUT LOCATION - REFER TO CIVIL DWGS. FOR TIE-IN	
16	INFORMATION. CURB SIDE BOOK DROP UNIT, REFER TO SPECS.	
17 18	PRIVACY FENCE, REFER TO DETAILS AND SPECS. BUILDING SIGNAGE - REFER TO SPECS. FOR MORE	Juning architecture interior design
19	INFORMATION PRE-FINISHED GUTTER AT ENTRY ROOF TO TIE INTO DOWNSPOUT, REFER TO SPECS.	ARCHTECT-OF-RECORD JEWA
20	TRAFFIC BOLLARD, REFER TO CIVIL DRAWINGS.	- 3005 LOOUST ST. ST. LOUS, MD 63103 T (314) 531-7400
		E-MAL: SOLARK@JEVASTL.COM <u>DESIGNARCHTECT</u> SAPP DESIGNASSOCIATES ARCHTECTS
		3750 SOUTH FREMONT SPRINGFIELD, MO65804 T (417) 877-9600 F (417) 877-9696
		CONTACT: JAVES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHTECTS.COM
		COCHRAN 530A E INDEPENDENCE DRIVE UNON, MO 63084
		CONTACT: DAVE VAN LEER T (636) 584-0540
		F (636) 584-0512 E-MAL: DVANLEER@0000-BAN.COM STRUCTURAL
		F (636) 584-0512 E-MAL: DVANLEER@CCCI-RAN.COM <u>STRUCTURAL</u> ALPERAUD, INC. 1804 BORWAN ORCLE DRIVE
		F (636) 584-0512 E-MAL: DVANLEER@CCCH-RAN.COM <u>STRUCTURAL</u> ALPERAUD, INC. 1804 BORMAN OROLE DRIVE ST. LOUS, MD 63146 T (314) 432-8600 F (314) 807-2774
		F (636) 584-0512 E-MAL: DVANLEER@CCCH-RAN.COM <u>STRUCTURAL</u> ALPERAUD, INC. 1804 BORIVAN OROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE B-RETT @ALPERAUD.COM
		F (636) 584-0512 E-MAL: DVANLEER@COCH-RAN.COM STRUCTURAL ALPERAUD, INC. 1804 BORMAN OROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EHRETT E-MAL: STEVE EHRETT E-MAL: STEVE EHRETT BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUTE 204
		F (636) 584-0512 E-MAL: DVANLEER@CCCH-RANCOM STRUCTURAL ALPERAUD, INC. 1804 BORMAN ORQLE DRIVE ST. LOUS, MD 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE B-RETT@ALPERAUDI.COO MECHANCAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN
		F (636) 584-0512 E-MAL: DVANLEER@CCCH-RANCOM STRUCTURAL ALPERAUD, INC. 1804 BORMAN ORQLE DRIVE ST. LOUS, MD 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE B-RETT E-MAL: STEVE B-RETT BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COM
		F (636) 584-0512 E-MAL: DVANLEER@CCCI-RANCOM STRUCTURAL ALPERAUD, INC. 1804 BORMAN ORGLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EI-RETT E-MAIL: STEVE EI-RETT@ALPERAUD.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN
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0		F (636) 584-0512 E-MAL: DVANLEER@CCCH-RANCOM STRUCTURAL ALPERAUD, INC. 1804 BORMAN ORQLE DRIVE ST. LOUIS, MD 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAL: STEVE B-RETT E-MAL: STEVE B-RETT BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.COV
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0	₽ ⁴ ; PVC	F (636) 584-0512 E-MAIL: DVANLEER@COCH-PAN.COM STELCTUPAL ALPERALD, INC. 1804 BORMAN OROLE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE BHRETT E-MAIL: STEVE BHRETT E-MAIL: STEVE BHRETT@ALPERALD.COM MECHANICAL, BLECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5899 CONTACT: BRUCE COLEMAN E BOOLEMAN@BRICPARTINERSHIP.COM ARCHITECT OF RECORD.
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	₽ ⁴ ; PVC	F (636) 584-0512 E-MAIL: DVANLEER@0000-FRANCOM STRUCTURAL ALPERAUD, INC. 1804 BORMAN OROLE DRVE ST. LOUIS, MD 63146 T (314) 432-8800 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAIL: STEVE B-RETT@ALPERAUD.COM MECHANICAL BLECTIFICAL PLUMBING BRC PARTINERSHP, LLC 343 S. KIRKWCOD ROAD, SUITE 204 KIRKWCOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E BOOLEVAN@BROPARTINERSHP.COM
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	PVC	F (636) 594-0512 E-MAIL: DVANLEER@CCO-FAN.COM STRUCTURAL ALPERALD, INC. 1804 BCRWAN ORCLE DRVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE B-FETT E-MAIL: STEVE B-FETT E-MAIL: STEVE B-FETT E-MAIL: STEVE B-FETT BRC PARTINERSHIP, LLC 343 S, KIRKWOOD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E BOOLEMAN@BROPARINERSHIP.COV
	PVC	F (636) 594-0512 E-MAIL: DVANLEER@CCCH-FANLCOM SIFLICTUPAL ALPERALD, INC. 1804 BORMAN OFFILE DRVE ST. LOUS, MO63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EH FRETT E-MAIL: STEVE EH FRETT @ALPERALDLOCK MECHANICAL, ELECTRICAL, PLLMBING BRC PARTNERSHP, LLC 343 S. KIRKVCCD, MO63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E BOCLEMAN@BROPARTNERSHP.COV AROHTECT OF RECORD. AROHTECT OF RECORD. AROHTECT OF RECORD. AROHTECT OF RECORD. No. Deste Description O4/14/17 ISSUED FOR EID IMALE IMALE IMALE IMALE
	PVC	F (636) 534-0512 E-MAIL: DVANLEER@COCH-RANCOM STRLCTURAL AUPERALD, INC. 1804 BORMAN OROLE DRVE ST. LOUIS, MO 63146 T (314) 432-8800 F (314) 807-2774 CONTACT: STEVE B-RETT E-MAIL: STEVE B-RETT@ALPERALD.COM MECHANCAL, BLECTRICAL, BLUMBING BRCPARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5389 CONTACT: BRUE COLEMAN E BOOLEMAN@BROPARINERSHP.COV ARCHTECT OF RECORD. ARCHTECT OF RECORD. ARCHTECT OF RECORD. ARCHTECT OF RECORD. No. Date MO ARCHTECTURAL LICENSE A20100398 MO OERTIFICATE OF AUTHORITY A201400 No. Date MO OERTIFICATE OF AUTHORITY A201400 No. Date O4/14/17 ISSUED FOR BID IMANDER: ISSUED FOR BID IMANDER: ISC/SH IMANDER: ISC/SH IMANDER: ISC/SH



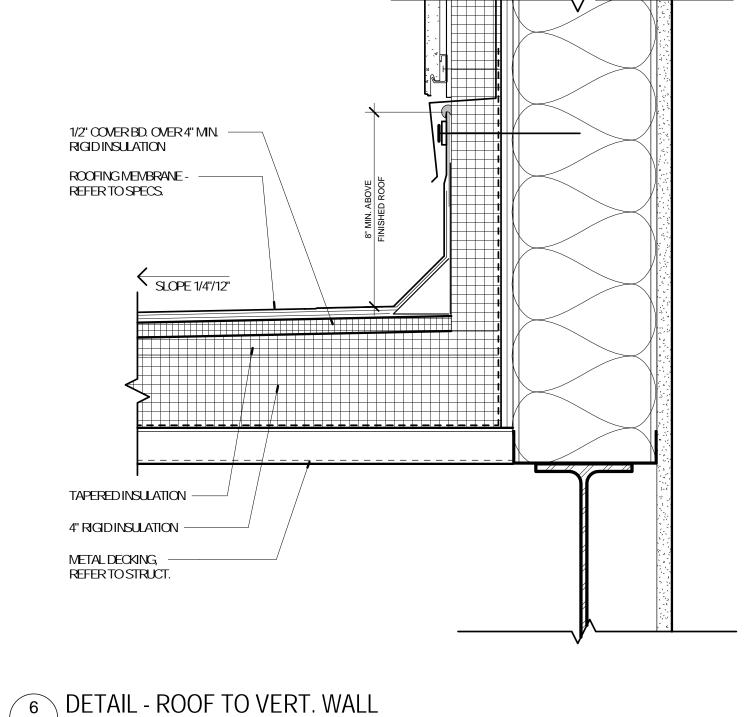


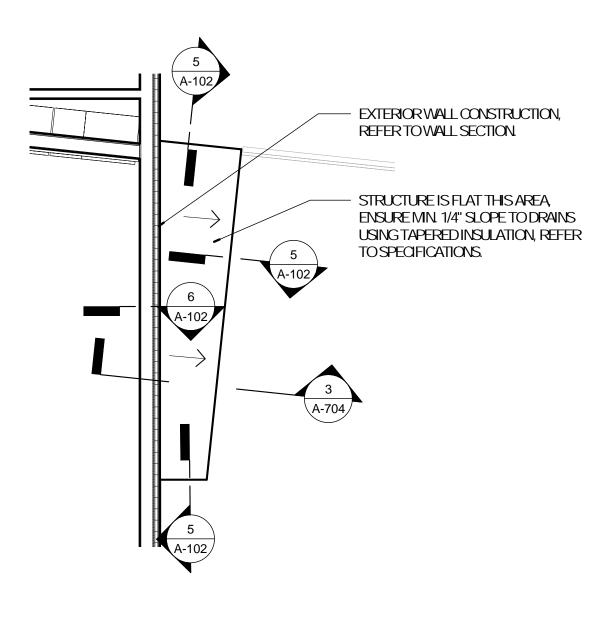


5 DETAIL - ROOF DRIP EDGE A-102 3" = 1'-0"

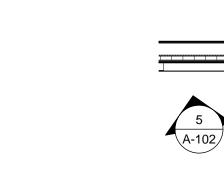


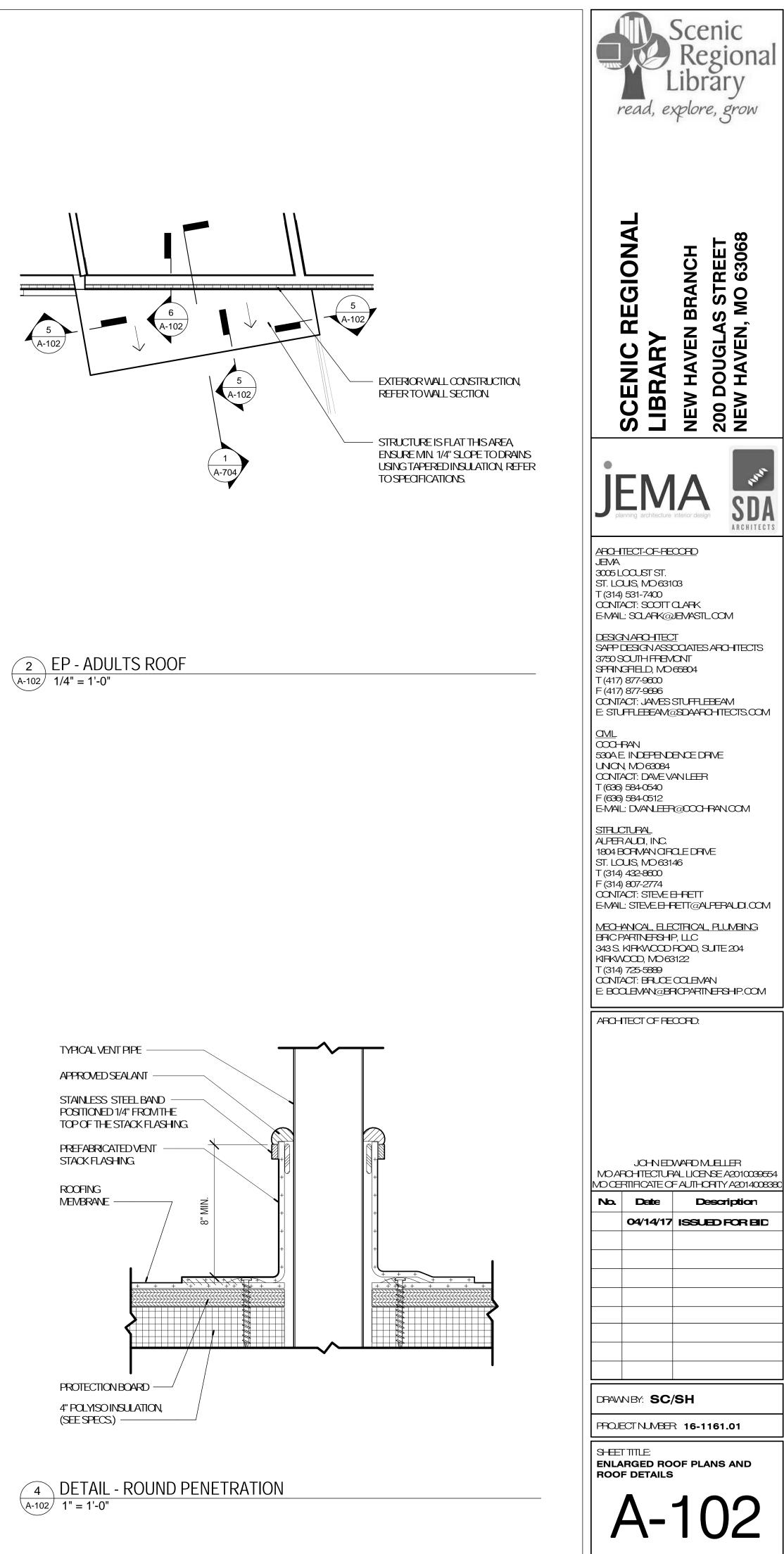
A-102 3" = 1'-0"

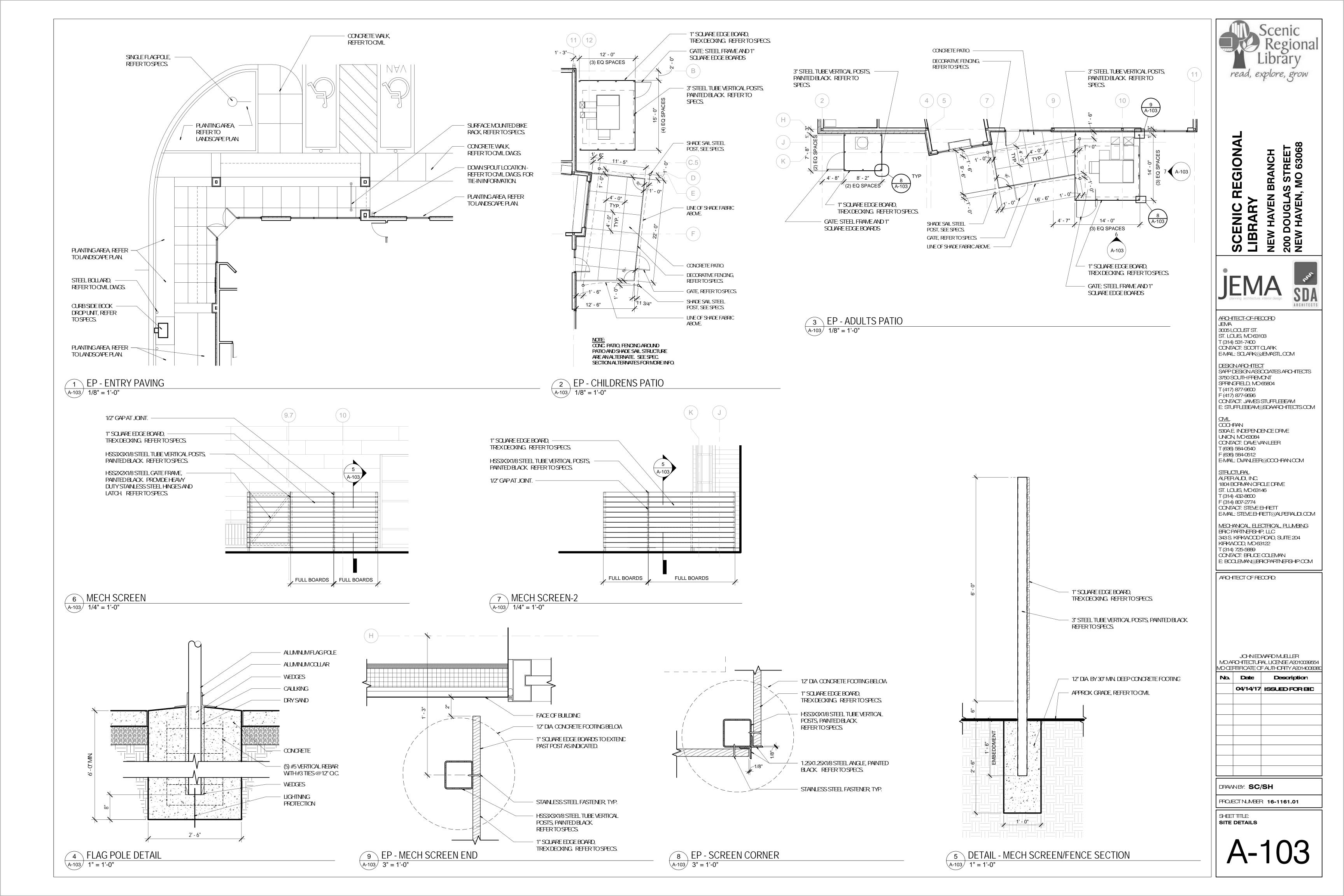


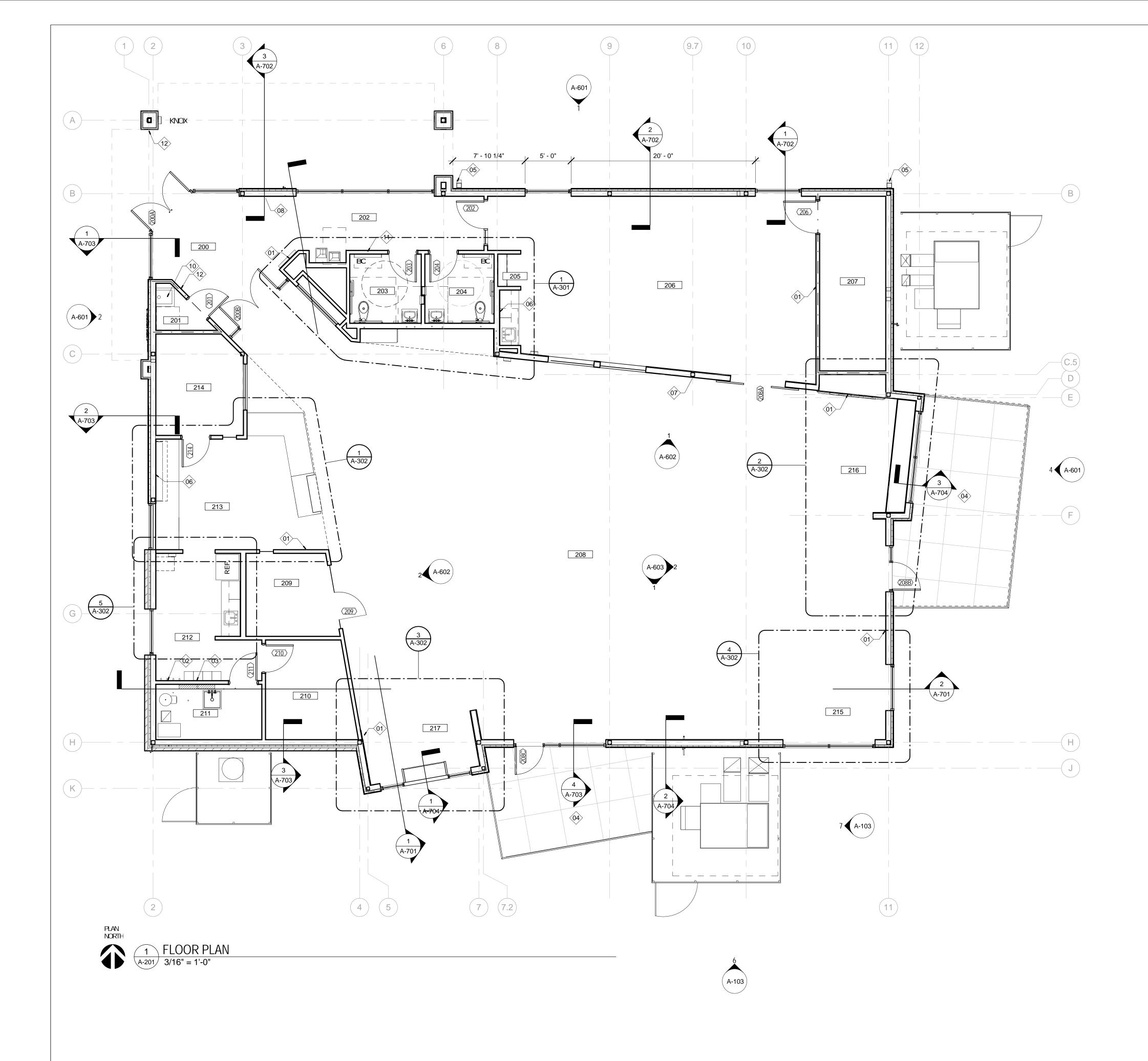


3 EP - CHILDRENS ROOF A-102 1/4" = 1'-0"









NUM R

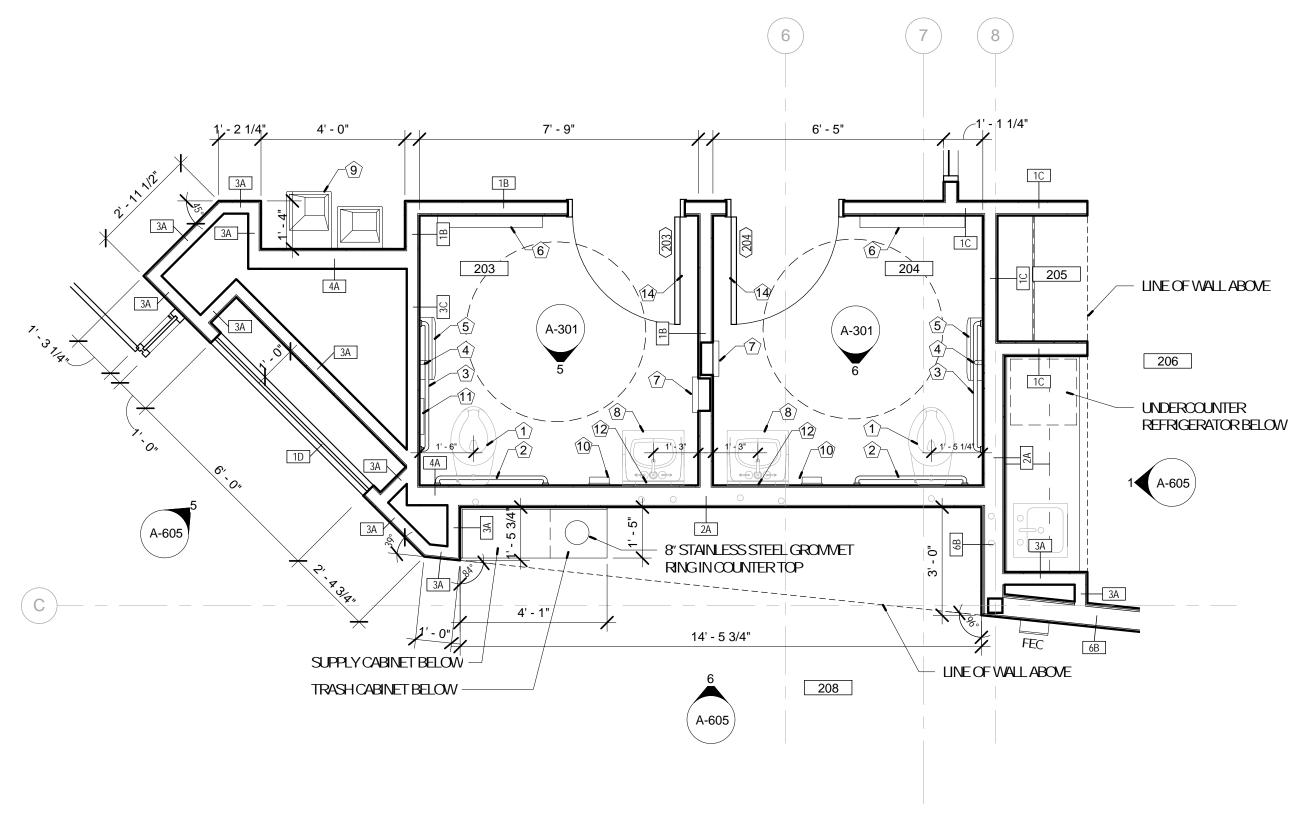
GENERAL NOTES - FLOOR PLAN

1. REFER TO SHEET A001 FOR FLOOR PLAN GENERAL NOTES

	KEYED NOTES - PLAN								
MBE R	DESCRIPTION								
)1	PROVIDE BLOCKING IN WALL FOR WALL-MOUNTED DISPLAY								
)2	PROVIDE BLOCKING IN WALL FOR COAT HOOKS								
)3	PROVIDE BLOCKING IN WALL FOR LOCKERS								
)4	OUTDOOR CONC. PATIO, FENCING AND SHADE STRUCTURE ARE ALTERNATE #1-								
	REFER TO A-001 AND SPECS. FOR MORE INFORMATION								
)5	DOWN SPOUT LOCATION - REFER TO ARCHITECTURAL SITE PLAN AND CIVIL DWGS								
)6	PROVIDE BLOCKING IN WALL FOR WALL-HUNG SHELVING								
)7	PROVIDE BLOCKING IN WALL FOR BULLETIN BOARD, C.F.C.I.								
)8	PROVIDE BLOCKING IN WALL FOR DONOR WALL, O.F.O.I.								
0	JANITOR'S MOP SINK, REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.								
1	PROVIDE BLOCKING IN WALL FOR LOCKING BULLETIN BOARD CASE, C.F.C.I.								
2	LOCATION OF ADA DOOR OPERATOR, REFER TO DOOR HDWR. AND ELECTRICAL DRAWINGS.								



RO	ROOM SCHEDULE								
NUMBER	NAME								
200	VESTIBULE								
201	JANITORS CLOSET								
202	CORRIDOR								
203	WOMENS								
204	MENS								
205	COATS								
206	MEETING								
207	STORAGE								
208	CIRCULATION								
209	STUDY								
210	STORAGE								
211	MECH / ELEC								
212	BREAK ROOM								
213	WORK ROOM								
214	OFFICE								
215	TEEN AREA								
216	CHILDREN AREA								
217	ADULT								



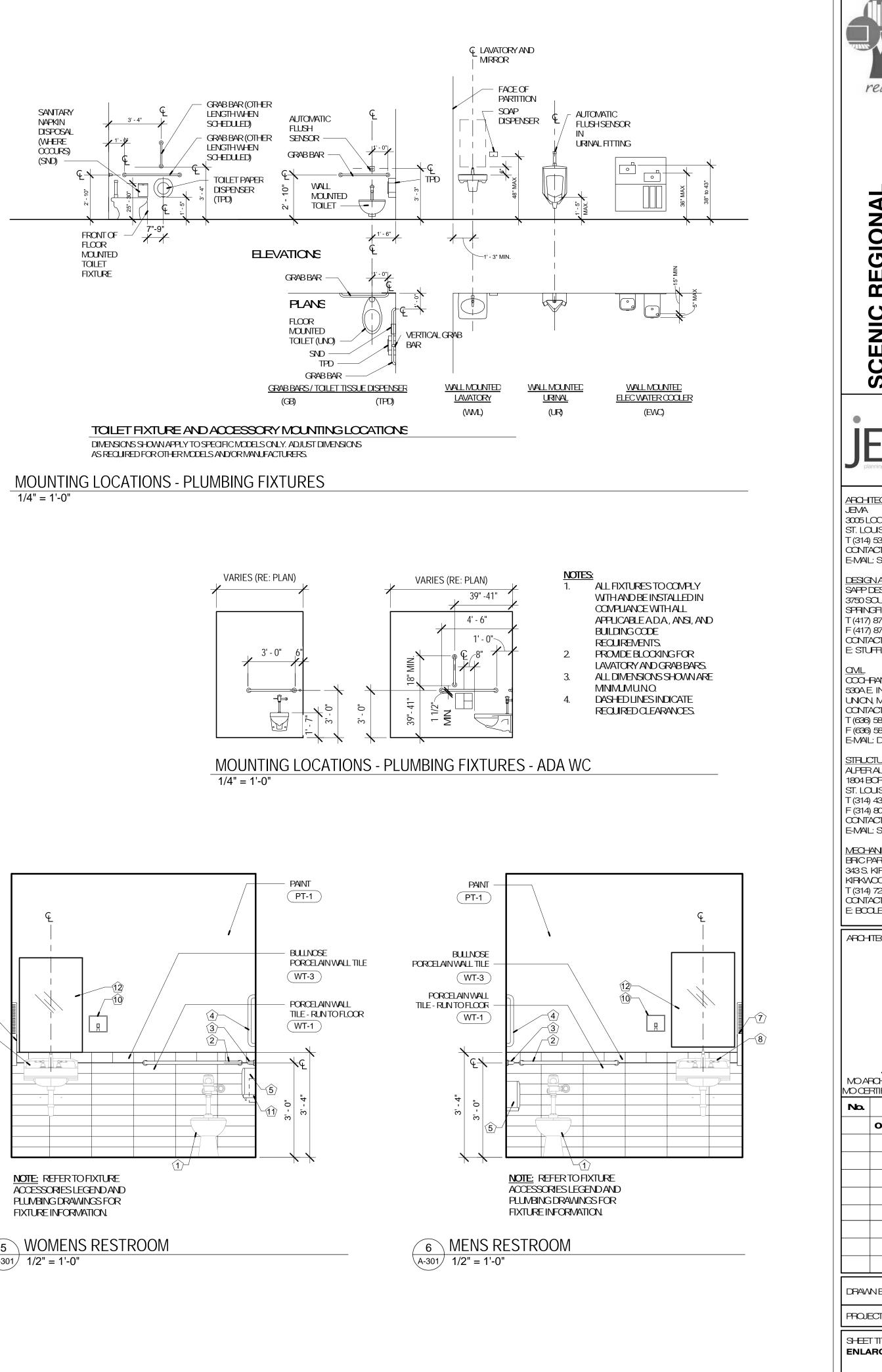
1 EP_RESTROOMS_COFFEE_MEETING A-301 3/8" = 1'-0"

○ PLUVBING FIXTURES AND ACCESSORIES LEGEND:

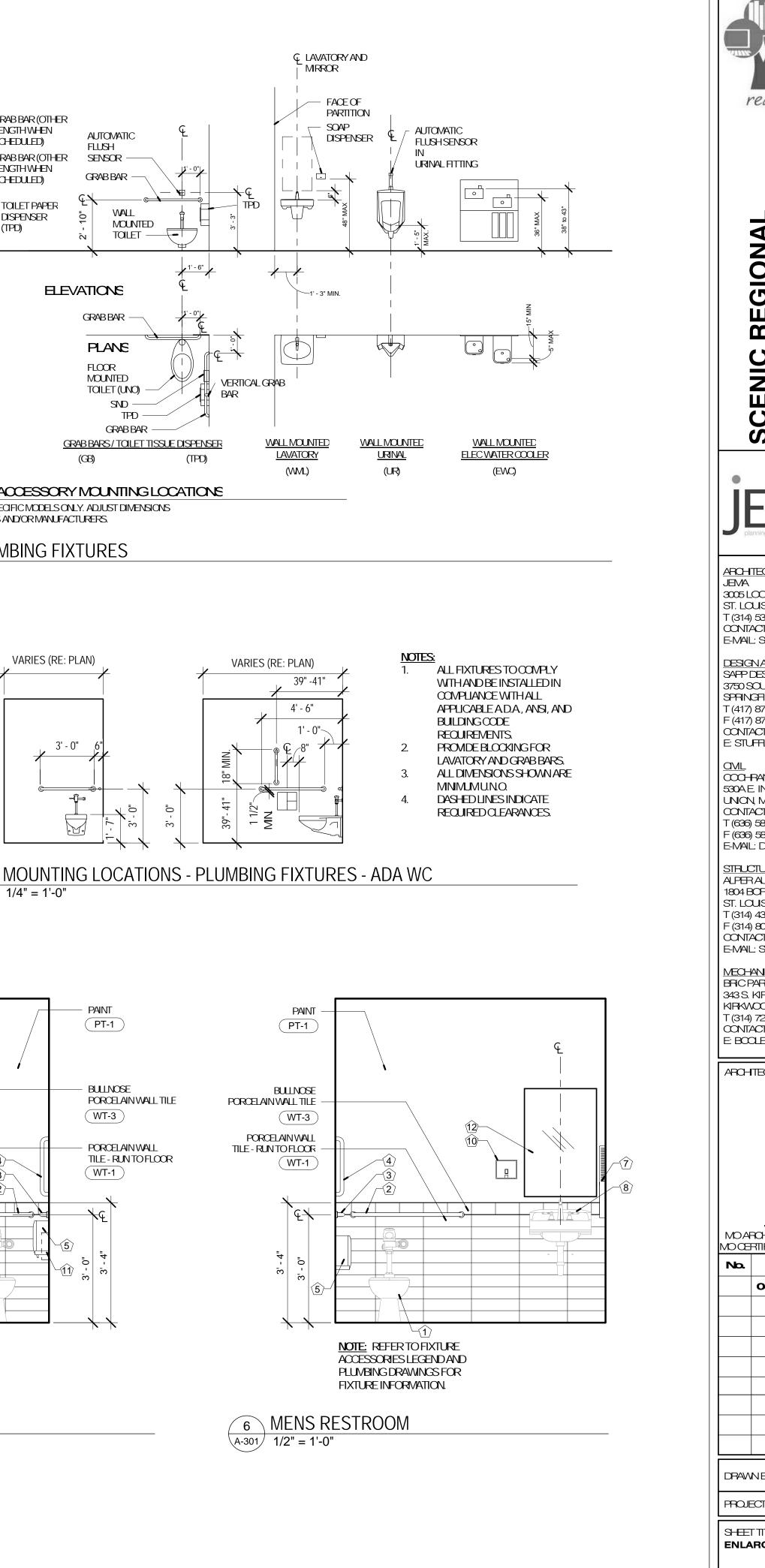
ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1. NUVBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

- 1 FLOOR-MOUNTED TOILET: SEE PLUMBING SPECS.
- GRAB BAR: BOBRICK #E-5806 X 36 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL - PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- GRAB BAR: BOBRICK #E-5806 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- GRAB BAR: 18" GRAB BAR BOBRICK MODEL #B6086 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL
- TOILET TISSUE DISPENSER: BOBRICK #E-2888 CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER, SURFACE-MOUNTED
- (6) CHANGING STATION: KOALA KARE PRODUCTS #KB-200, SURFACE-MOUNTED SERIES -PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING

- RECESSED AUTOVATIC HAND DRYER: $\langle 7 \rangle$ BOBRICK #B-3725, TRIMLINE SERIES, SEM-RECESSED, SATIN FINISH STAINLESS STEEL -PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- (a) WALL-MOUNTED LAVATORY: SEE PLUMBING SPECS.
- DRINKING FOUNTAIN: BI-LEVEL ADA COMPLIANT, (9) SEE PLUMBING SPECS.
- (10) SOAP DISPENSER: BOBRICK #E-2111 CLASSIC SERIES SURFACE-MOUNTED, SATIN-FINISH STAINLESS STEEL - PROMDE NECESSARY BLOCKING IN WALL FOR MOUNTING
- SANTARY DISPOSAL: BOBRICK #E-353 CLASSIC (11) SERIES PARTITION-MOUNTED SINGLE SIDED, SATIN FINISH STAINLESS STEEL (WOVEN'S RESTROOMS ONLY)
- 12 MRROR: BOBRICK #B-165-2448, SERIES CHANNEL-FRAMED MIRROR 24"X48"

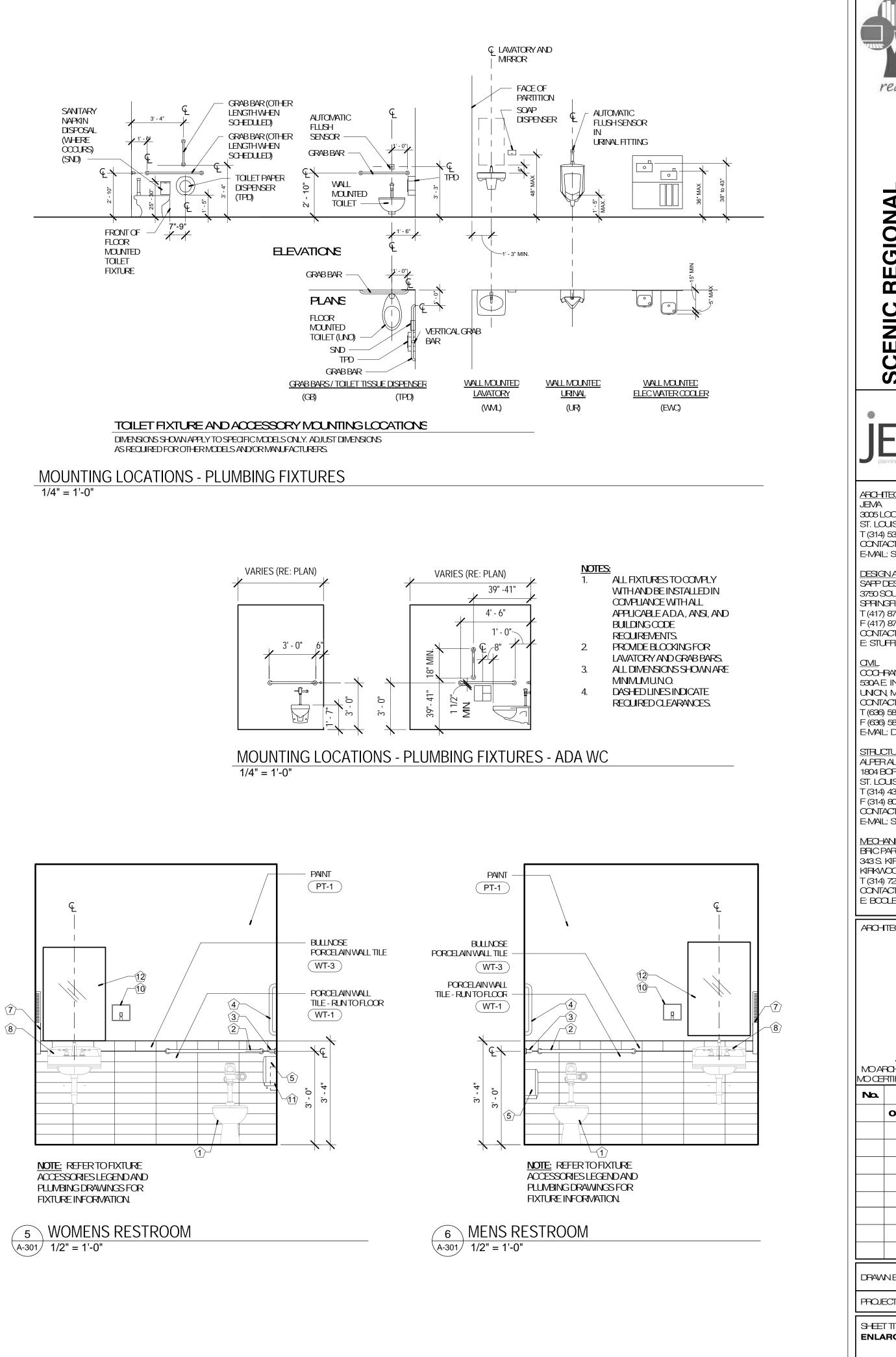




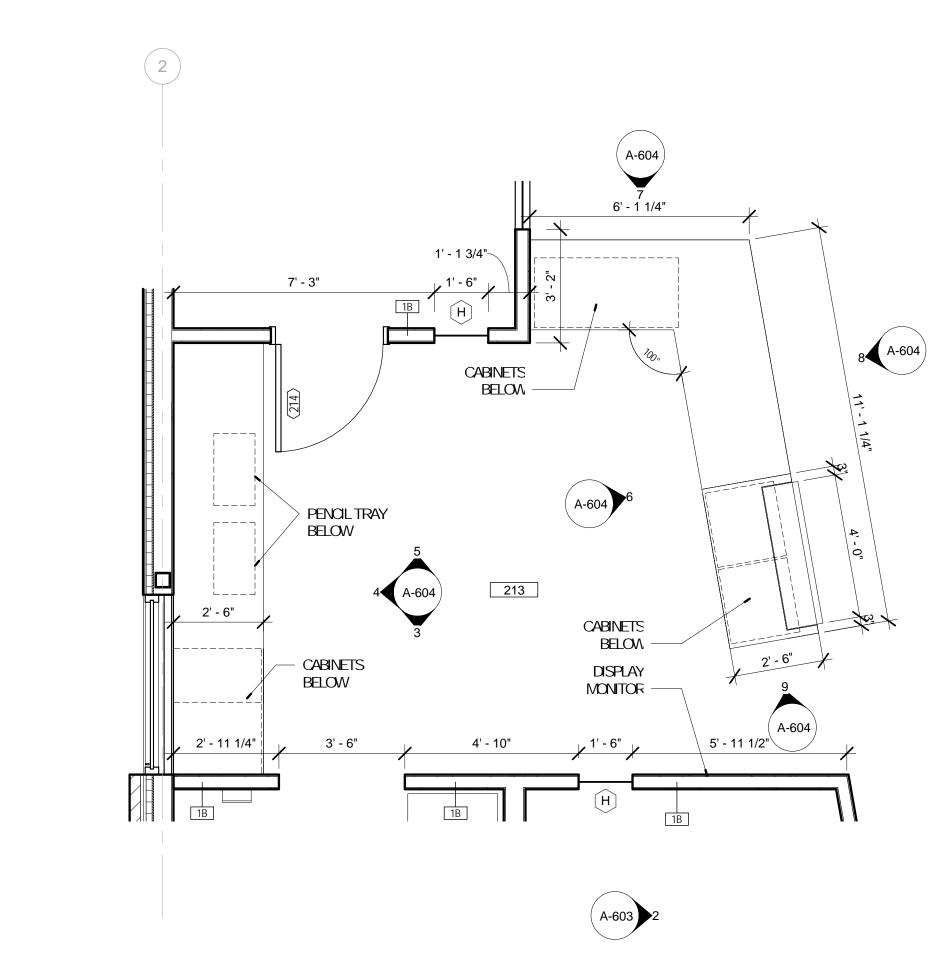


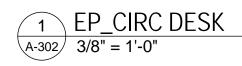
13 UTILITY SHELF WBROOMHOLDER: BOBRICK #E-224 UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS

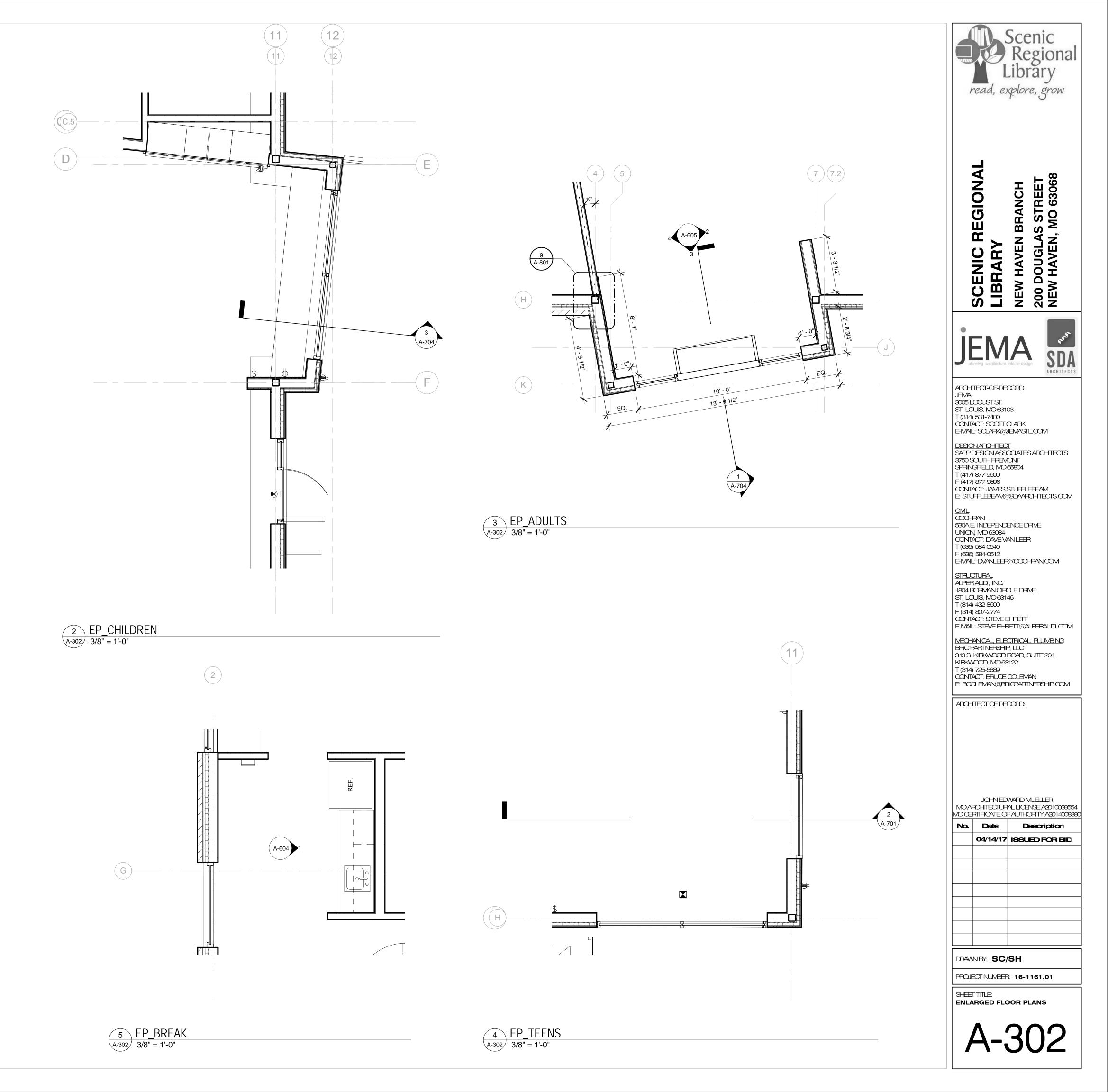
12 COAT HOOKS: BOBRICK #E-2116 HEAVY-DUTY CLOTHES HOOK WITH CONCEALED MOUNTING.

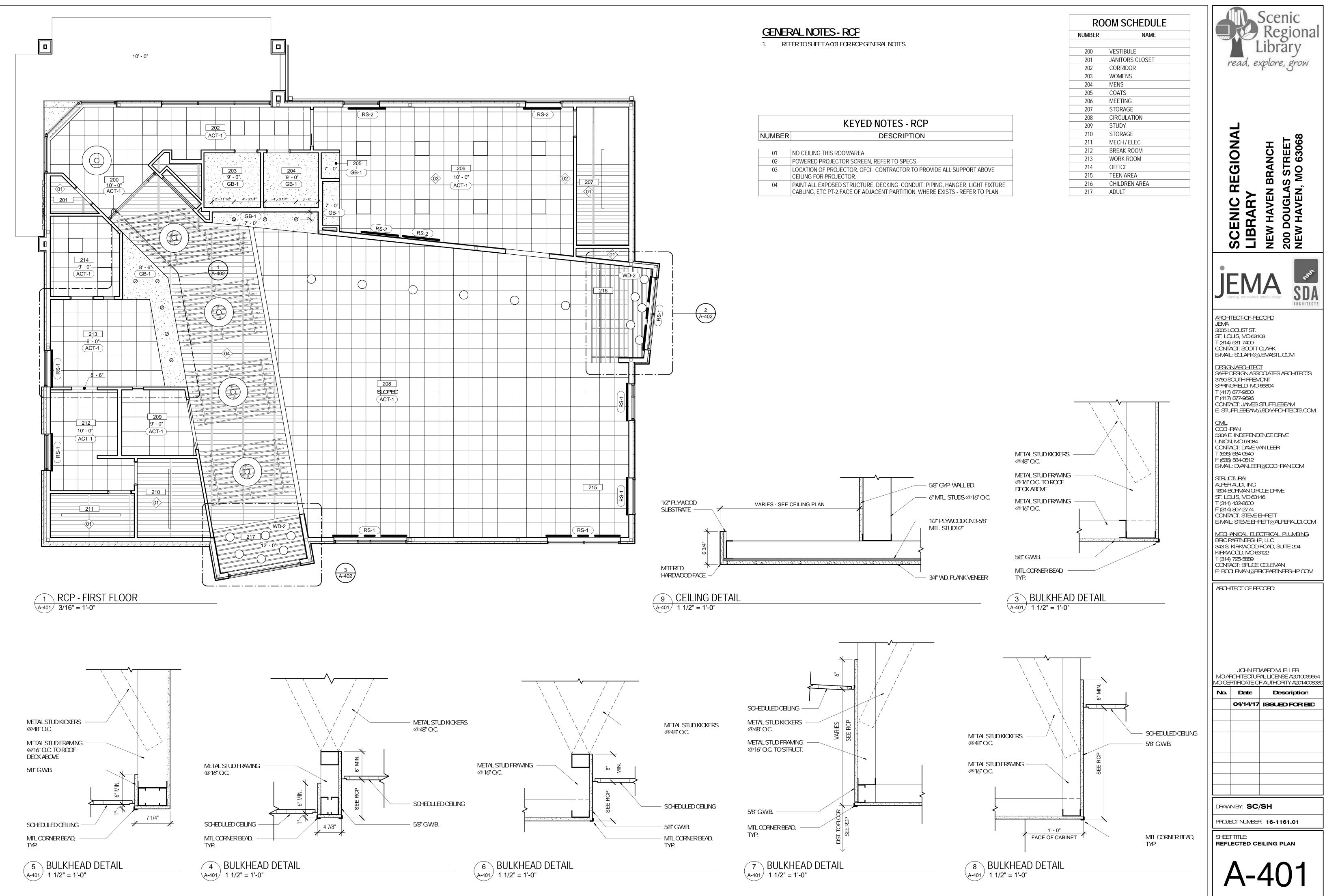


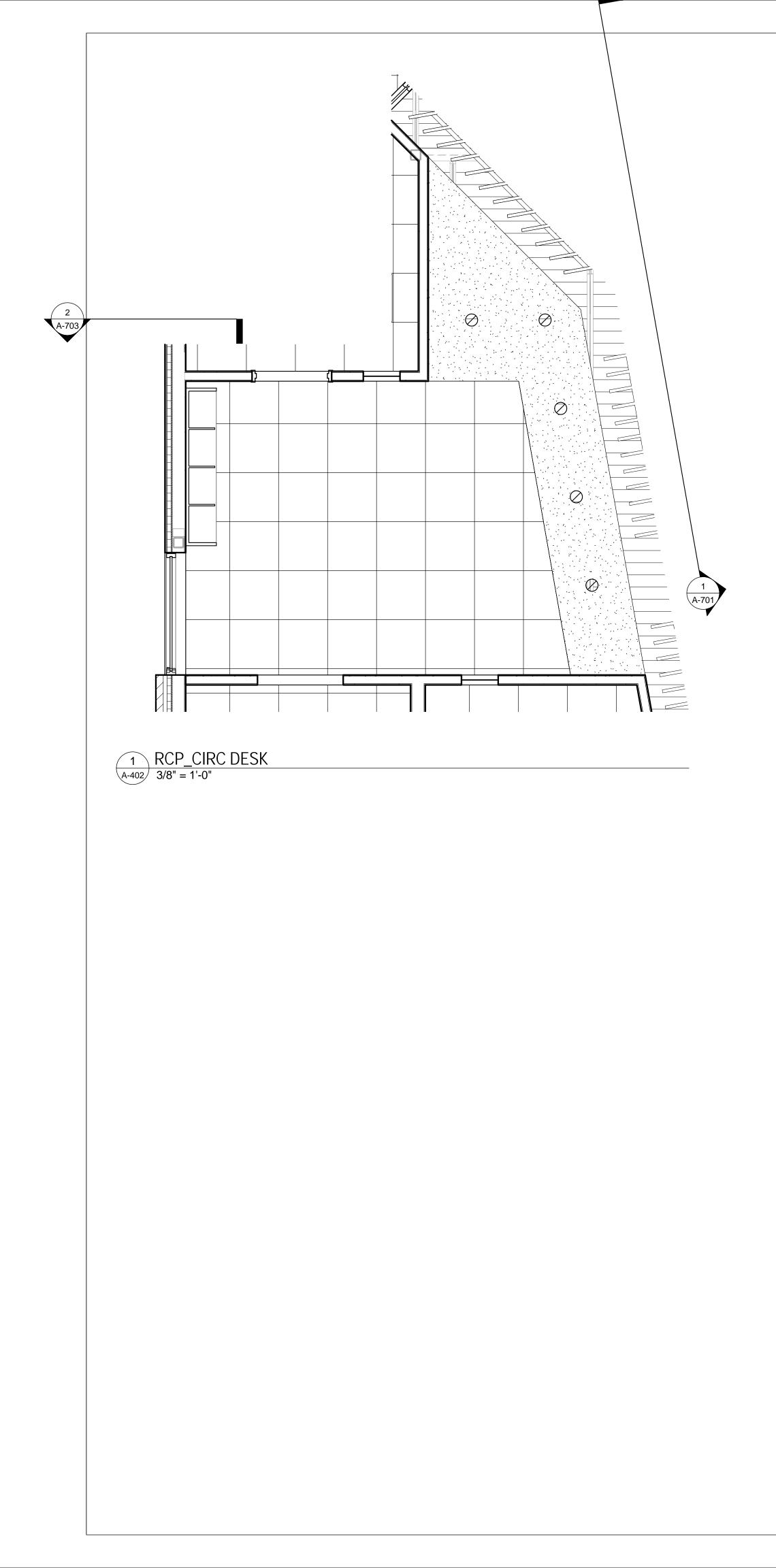
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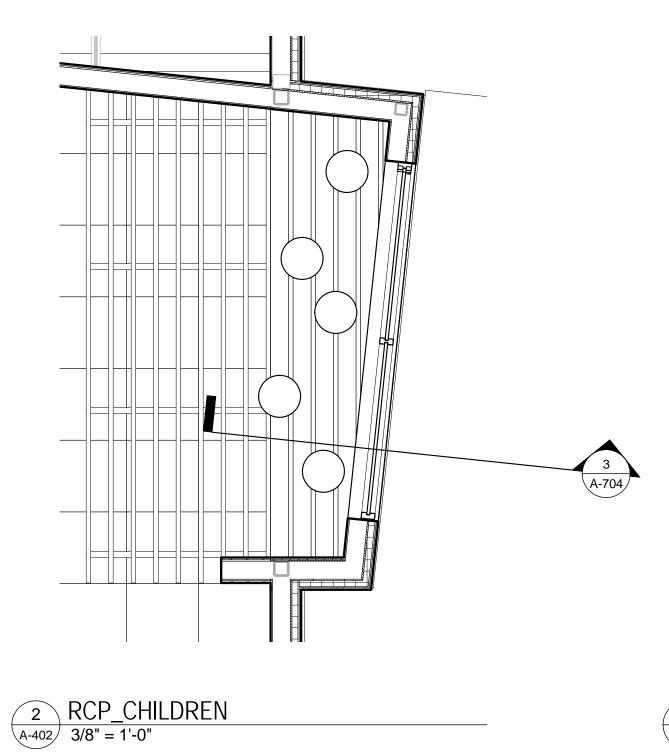


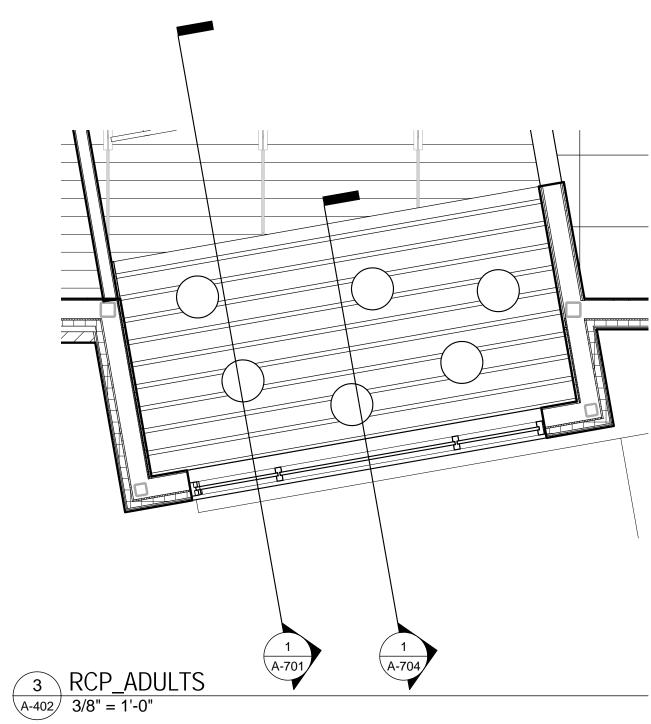




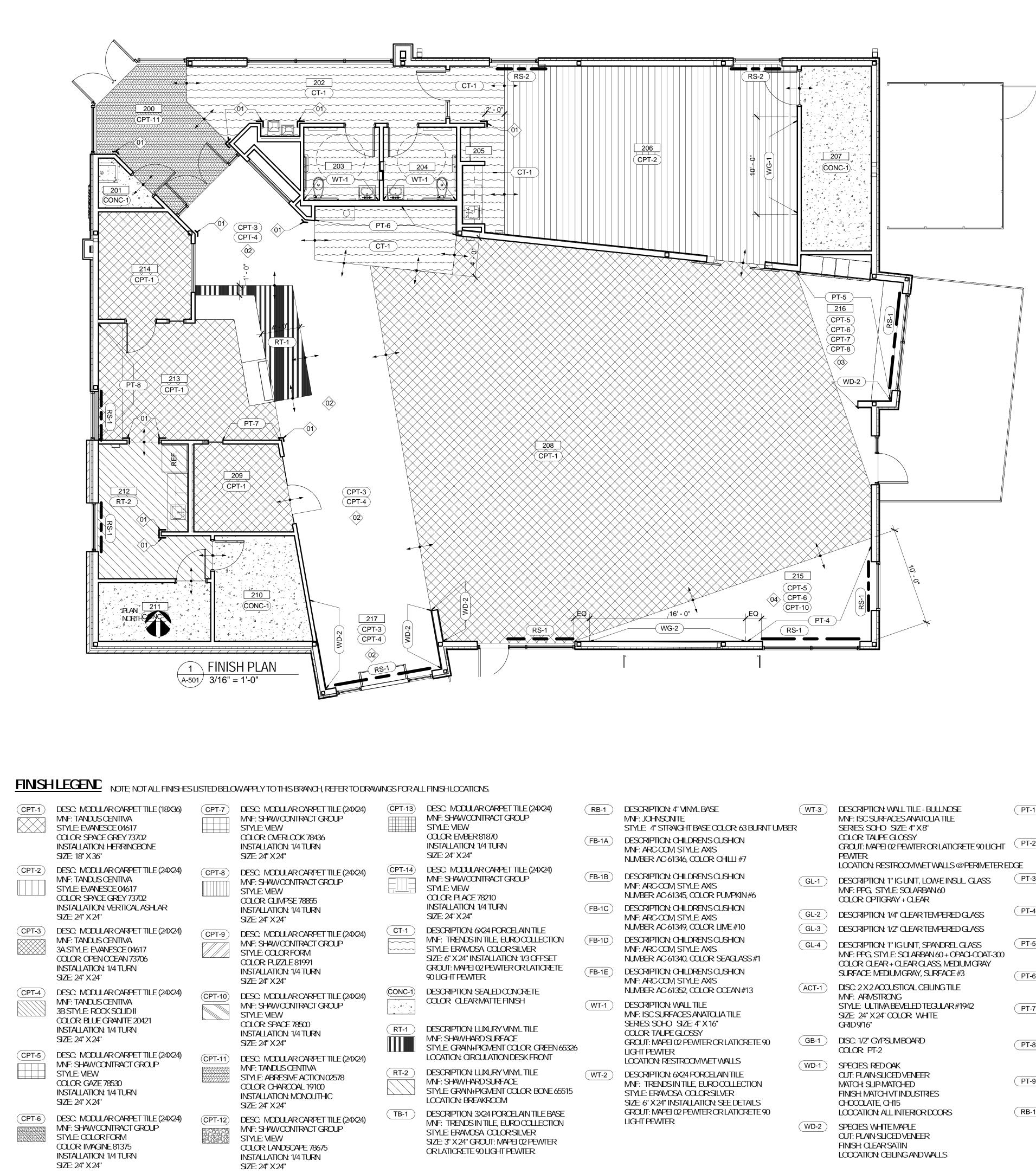








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				R	OOM FINISH	SCHEDUL	E			
FLOORING WALLS										
NUMBER	NAME	FLOOR FINISH	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING FINISH	COMMENTS	
200	VESTIBULE	CPT-11	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
201	JANITORS CLOSET	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
202	CORRIDOR	CT-1	TB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
203	WOMENS	CT-1	TB-1	PT-1	PT-1/WT-1	PT-1	PT-1	GB-1	NO TB-1 ON WET WALL, REF ELEVATION	
204	MENS	CT-1	TB-1	PT-1	PT-1/WT-1	PT-1	PT-1	GB-1	NO TB-1 ON WET WALL, REF ELEVATION	
205	COATS	CT-1	TB-1	PT-1	PT-1	N/A	PT-1	GB-1		
206	MEETING	CPT-2	RB-1	PT-1	PT-1	PT-1/WG- 1	PT-1	ACT-1	WG-1 ON EAST WALL, REFER TO FINISH PLAN,SOFFIT AT COUNTER TO BE GB-1	
207	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
208	CIRCULATION	CPT-1	RB-1	PT-1/PT-6	PT-1/WG-2	PT-1	PT-1	ACT-1	WC-2 ON SOUTH WALL, REFER TO FINISH PLAN	
209	STUDY	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
210	STORAGE	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
211	MECH / ELEC	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-1	N/A		
212	BREAK ROOM	RT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
213	WORK ROOM	CPT-1	RB-1	PT-1	PT-1	N/A	PT-8	ACT-1		
214	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		
215	TEEN AREA	CPT-5,6,10	RB-1	N/A	PT-4	PT-4	N/A	ACT-1		
216	CHILDREN AREA	CPT-5,6,7,8	RB-1	PT-5	WD-2	PT-5	N/A	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING	
217	ADULT	CPT-3,CPT-4	RB-1	N/A	PT-1	WD-2	WD-2	WD-2/ACT-1	ACT-1 MAIN UPPER CEILING	

\subset	RB-1	DESCRIPTION: 4" VINML BASE MNF: JOHNSONITE STYLE: 4" STRAIGHT BASE COLOR: 63 BURNT UMBER		DESCRIPTION: WALL TILE - BULLNOSE MNF: ISC SURFACES ANATOLIA TILE SERIES: SOHO SIZE: 4" X 8"	PT-1	MNF: SHERWIN+WILLIAVIS COLOR TBD LOCATION: GENERAL WALL COLOR	PL-1	MNF: FORMCA COLOR: 5886-43 SORREL CHERRY FINISH; ARTISAN	WG-1	DESCRIPTION: VINYL WALL GRAPHIC MNF: SIZE: SEE PLAN AND ELEVATION
F	-B-1A	DESCRIPTION: CHILDRENS CUSHON MNF: ARC-COM, STYLE: AXIS NUMBER AC-61346, COLOR CHILLI #7		COLOR TAUPE GLOSSY GROUT: MAPEL 02 PEWTER OR LATICRETE 90 LIGHT PEWTER	PT-2	MNF: SHERWIN-WILLIAVIS COLOR TBD LOCATION: GENERAL OLG COLOR	(PL-2)	LOCATION: CIRCULATION DESK/ COFFEE, FIREPLACE VERTICAL SURFACES. MNF: LAMIN-ART	WG-2	DESCRIPTION: CUSTOM DIGITAL WALL IN MNF: ARC-COM TYPE II VINNL, CUSTOM IMAGE TO BE DE
F	-B-1B)	DESCRIPTION: CHILDRENS CUSHION MNF: ARC-COM, STYLE: AXIS NUVBER: AC-61345, COLOR: PUVPKIN#6		LOCATION: RESTROOMWET WALLS @PERIMETER E DESCRIPTION: 1" IG UNIT, LOWE INSUL GLASS MNF: PPG, STYLE: SOLARBAN 60 COLOR: OPTIGRAY + CLEAR	PT-3	MNF: SHERWIN-WILLIAVS COLOR TBD LOCATION: DOOR FRAVE COLOR		COLOR 3057-VT FINISH: VELVATEX LOCATION: WORK RM/ MTG. RM/BREAK RM VERTICAL SURFACES.	l	SIZE: (1) 28-0" WIDE BY 8-0" TALL, BOT. A (1) 35-0" WIDE BY 8-0" TALL, BOT. A REP CONTACT: AFTEN ZURLIENE, 314-46 AZURLIENE@ARC-COM C
F	-B-1C	DESCRIPTION: CHILDRENS CUSHION MNF: ARC-COM, STYLE: AXIS NUVBER: AC-61349, COLOR: LIME #10	GL-2 GL-3	DESCRIPTION: 1/4" CLEAR TEMPERED GLASS DESCRIPTION: 1/2" CLEAR TEMPERED GLASS	PT-4	MNF: SHERWIN-WILLIAVS COLOR TBD LOCATION: ACCENT PAINT TEENS	PL-3	MNF: FORMCA COLOR 961-58 FOG FINISH: MATTE	RS-1	DESCRIPTION: SINGLE MANUAL ROLLER: MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWE
F	B-1D	DESCRIPTION: CHILDRENS CUSHION MNF: ARC-COM, STYLE: AXIS NUMBER: AC-61340, COLOR: SEAGLASS #1	GL-4	DESCRIPTION: 1" IGUNIT, SPANDREL GLASS MNF: PPG, STYLE: SOLARBAN 60 + OPACI-COAT-300	PT-5	MNF: SHERWIN-WILLIAVS COLOR TBD LOCATION: ACCENT PAINT CHILDRENS	PL-4	LOCATION: WORK RM/BREAK RM TOPS MNF: FORMCA	(RS-2)	DESCRIPTION: SINGLE MANUAL BLACK-C
F	-B-1E	DESCRIPTION: CHILDRENS CUSHON MNF: ARC-COM, STYLE: AXIS NUVBER AC-61352, COLOR: OCEAN#13	(ACT-1)	COLOR CLEAR + CLEAR GLASS, MEDIUMGRAY SURFACE: MEDIUMGRAY, SURFACE #3 DISC: 2 X 2 ACOUSTICAL CEILING TILE	PT-6	MNF: SHERWINI-WILLIAWS COLOR TBD		COLOR: M2178 BRUSHED STAINLESS STEEL LOCATION: CIRCULATION DESK AND FIREPLACE BASE		MNF: SWF CONTRACT OPENNESS: FULL BLACK-OUT, BLACK DU
C	WT-1	DESCRIPTION: WALL TILE MNF: ISC SURFACES ANATOLIA TILE		MNF: ARVSTRONG STYLE: ULTIMABEVELED TEGULAR #1942 SIZE: 24" X 24" COLOR WHITE	PT-7	LOCATION: ACCENT PAINT COFFEE MNF: SHERWIN-WILLIAVS COLOR: TBD	PL-5	MNF: FORMCA COLOR: STOP RED 839-58 FINISH: MATTE FINISH	RS-3	DESCRIPTION: DUEL MANUAL BLACK-OUT MNF: SWF CONTRACT FABRIC COLOR: PEARL GRAY, SHEARWE
6		SERIES: SOHO SIZE: 4" X 16" COLOR TAUPE GLOSSY GROUT: MAPEI 02 PEWTER OR LATICRETE 90 LIGHT PEWTER	GB-1	GRID 9/16" DISC: 1/2" GYPSUMBOARD COLOR: PT-2	PT-8	LOCATION: ACCENT PAINT CIRCULATION	N PL-6	MNF: FORMCA COLOR: MBRANT GREEN 6901-58 FINISH: MATTE FINISH		OPENNESS: 10% OPENNESS: FULL BLACK-OUT, BLACK DU
\bigcirc	WT-2	LOCATION: RESTROOMWET WALLS DESCRIPTION: 6X24 PORCELAINTILE MNF: TRENDS IN TILE, EURO COLLECTION		SPECIES: RED OAK CUT: PLAIN-SLICED VENEER MATCH: SLIP-MATCHED	PT-9	COLOR TED LOCATION: ACCENT PAINT WORK ROOM MNF: SHERWIN-WILLIAVIS	A PL-7	MNF: FORMCA COLOR SPECTRUMBLUE 851-AN FINISH INFINITI FINISH		
		STYLE: ERAMOSA COLOR SILVER SIZE: 6" X 24" INSTALLATION: SEE DETAILS GROUT: MAPEI 02 PEWTER OR LATICRETE 90		FINISH MATCH VT INDUSTRIES CHOCOLATE, CH15 LOOCATION: ALL INTERIOR DOORS	(RB-1)	COLOR TED LOCATION: EXT. METAL DOORS DESCRIPTION: 4" VINML BASE	SS-1	MNF: AVONITE COLOR NORDIC F1-9119 LOCATION: CIRCULATION COUNTER INSET,		
		LIGHT PEWTER.		SPECIES: WHITE MAPLE CUT: PLAIN-SLICED VENEER FINISH: CLEAR SATIN		MNF: JOHNSONITE SIZE: 4" HIGH STRAIGHT BASE COLOR: 63 BURNT UMBER	(HW-1)	MTG. RM/COFFEE TOPS MNF: DOUG MOCKETT & COMPANY, INC.		
				LOOCATION: CEILING AND WALLS				STYLE: DP105/3 SERIES SQUARE PULL		

GENERAL NOTES - FINISH PLAN

1. FINISH PLANGENERAL NOTE

KEYED NOTES - FINISH PLAN

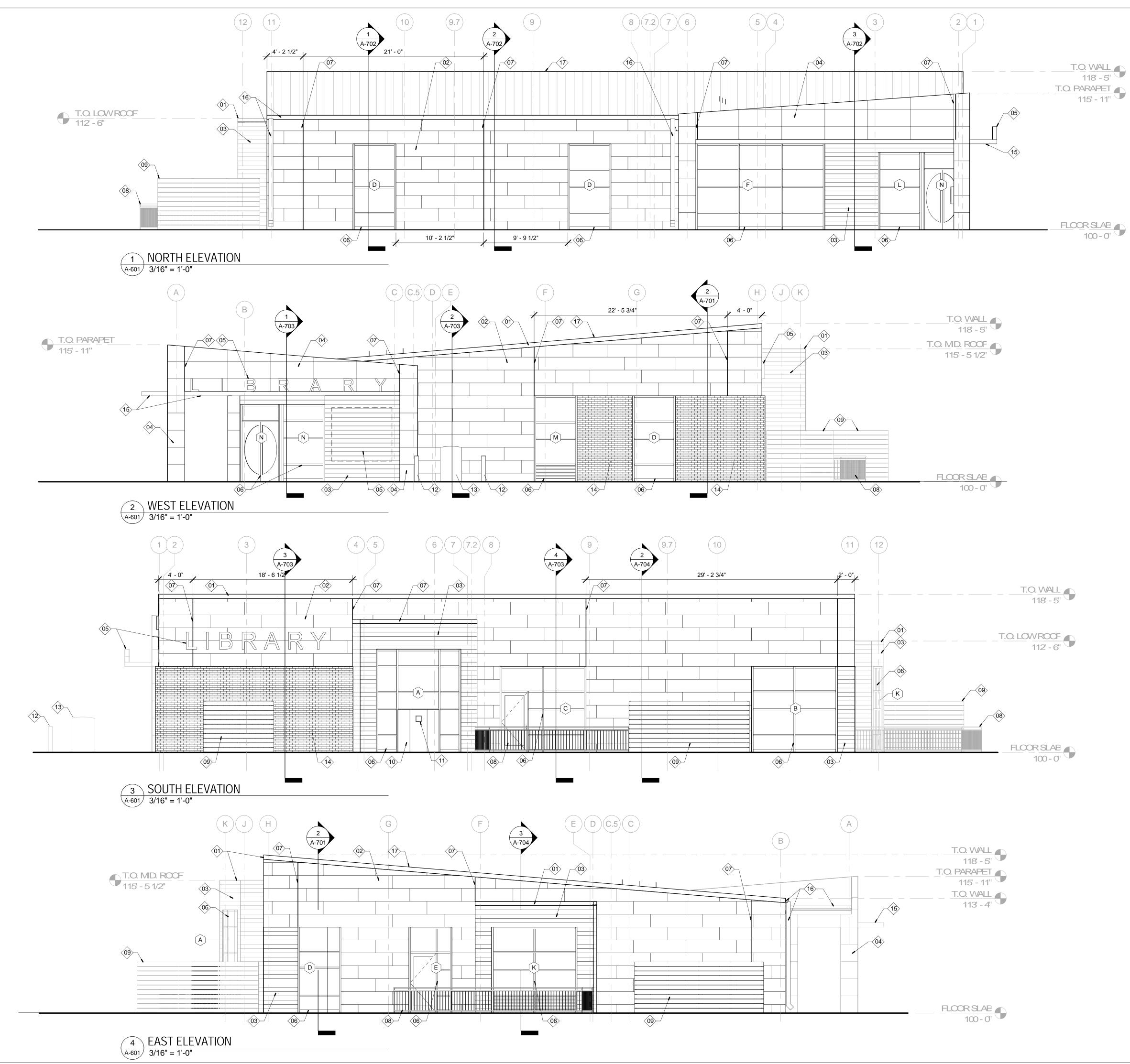
Keynote Number	Description
01	PROVIDE CORNER GUARD THIS LOCATION, SEE SPECS.
02	COMBINATION OF CPT-3 AND CPT-4 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT.
03	COMBINATION OF CPT-5, CPT-6, CPT-7 AND CPT-8 THIS AREA, SEE SHEET A-502 FOR PATTERN LAYOUT.
04	COMBINATION OF CPT-5, 6 AND 10 THIS AREA, SEE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

ROOM SCHEDULE	
NUMBER	NAME
200	VESTIBULE
201	JANITORS CLOSET
202	CORRIDOR
203	WOMENS
204	MENS
205	COATS
206	MEETING
207	STORAGE
208	CIRCULATION
209	STUDY
210	STORAGE
211	MECH / ELEC
212	BREAK ROOM
213	WORK ROOM
214	OFFICE
215	TEEN AREA
216	CHILDREN AREA
217	ADULT

COLOR STAINLESS STEEL SIZE: 627/32 X 9/16 SQUARE PULL

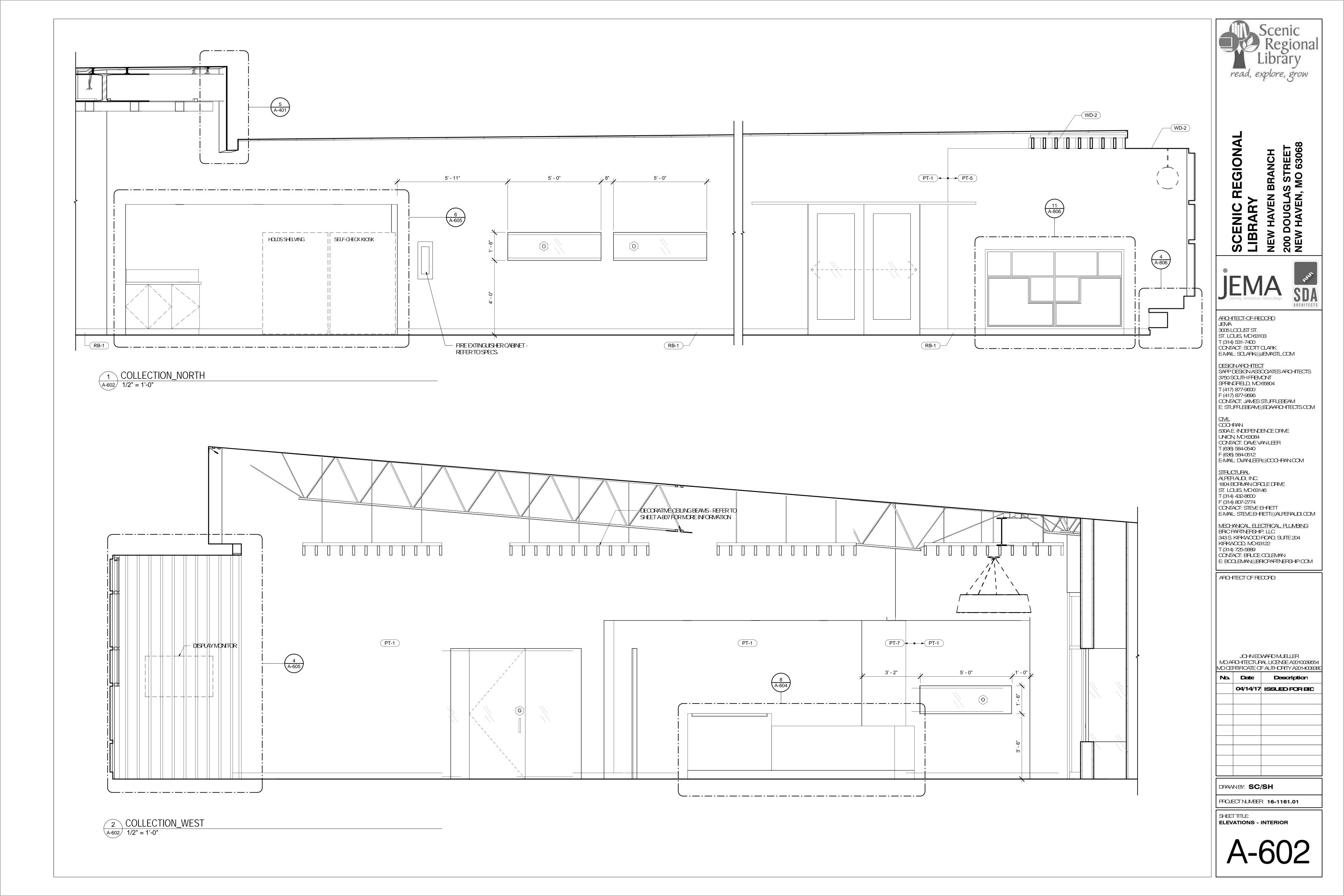
MNF:
SIZE: SEE PLAN AND ELEVATION
DESCRIPTION: CUSTOM DIGITAL WALL IMAGE
MNF: ARC-COM
TYPE II MNYL, CUSTOMIMAGE TO BE DETERMINED.
SIZE: (1) 28-0" WIDE BY 8-0" TALL, BOT. AT 6-0" AFF.
(1) 35-0" WIDE BY 8-0" TALL, BOT. AT 6-0" AFF.
REP CONTACT: AFTEN ZURLIENE, 314-465-2257
AZURLIENE@ARC-COMCOM
DESCRIPTION: SINGLE MANUAL ROLLER SHADE
MNF: SWF CONTRACT
FABRIC COLOR: PEARL GRAY, SHEARWEAVE 2360
OPENNESS: 10%
DESCRIPTION: SINGLE MANUAL BLACK-OUT SHADE
MNE: SWE CONTRACT
OPENNESS: FULL BLACK-OUT, BLACK DUPLEX R6039
OPENNESS, FOLL BLACK-COUT, BLACK DUPLEX ROUS9
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

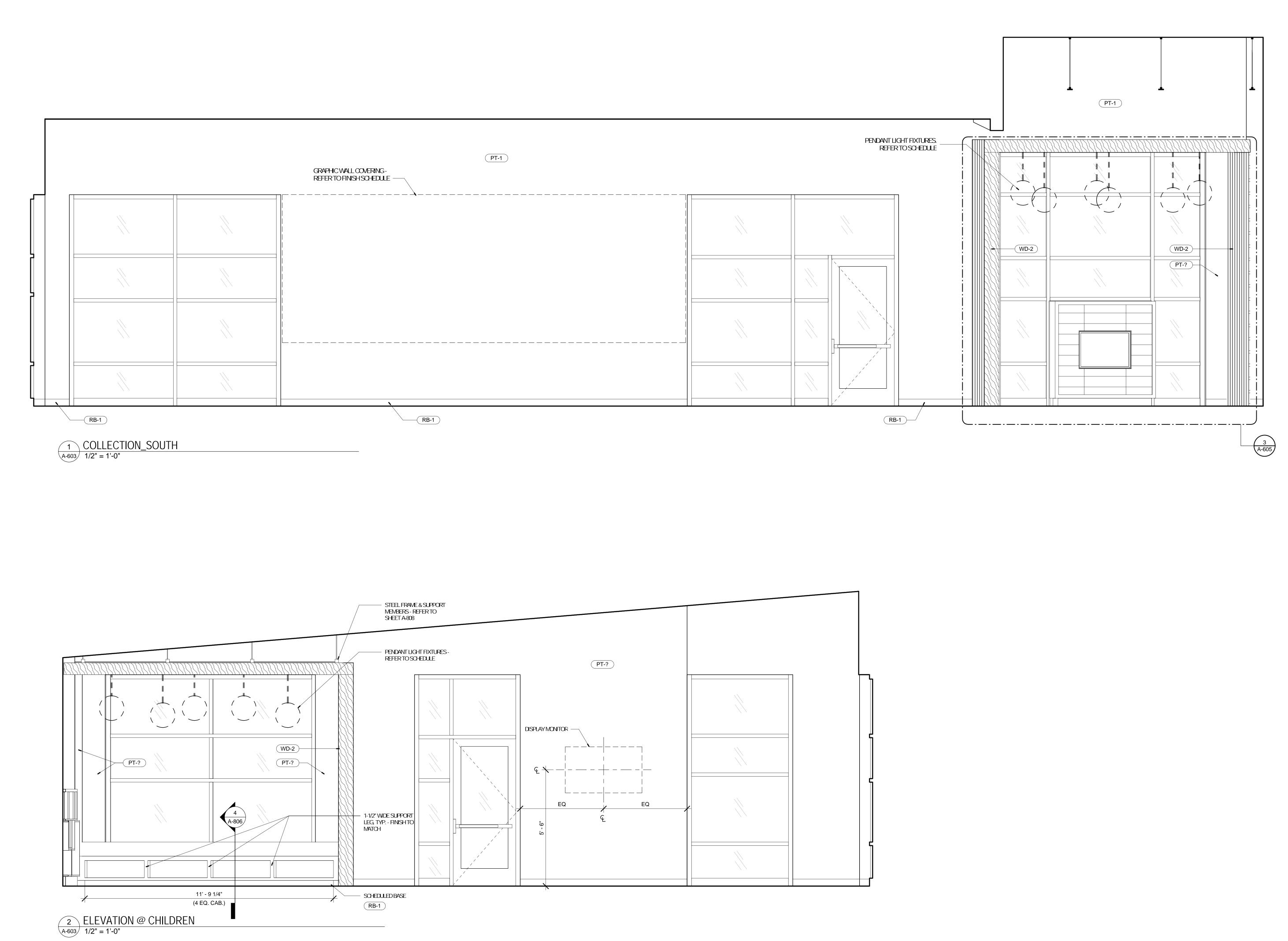
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	F (417) 877-9696 CONTACT: JAMES STUFFLEBEAM E: STUFFLEBEAM@SDAAROHTECTS.COM COL-RAN 530AE INDEPENDENCE DRIVE UNON, MO 63084 CONTACT: DAVE VANLEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@COCO-RAN.COM
	STRUCTURAL ALPERALD, INC. 1804 BORMAN OROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E-RETT E-MAIL: STEVE E-RETT@ALPERALDI.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTINERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122
	T (314) 725-5889 CONTACT: BRUCE COLEVAN E: BOOLEMAN@BRICPARTNERSHIP.COM ARCHTECT OF RECORD:
	JOHNEDWARD MUELLER MOARCHTECTURAL LICENSE A2010039554 MOCERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID
	DRAWN BY: SC-SH PROJECT NUMBER: 16-1161.01
	FINISH PLAN



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<u>CML</u> CCO-RAN 530AE INDEPENDENCE DRIVE UNON, MD 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@CCO-RAN.COM	
STRUCTURAL ALPERALD, INC. 1804 BORMAN ORGUE DRIVE ST. LOUS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EF-RETT E-MAIL: STEVE EF-RETT@ALPERAUDLO	
MECHANICAL, ELECTRICAL, PLUMBIN BRIC PARTINERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRICPARTINERSHP.C	G
ARCHTECT OF RECORD:	
KEYED NOTES - EXTERIOR ELEVATIONS 01 PRE-FINISHED METAL COPING	
 02 HORIZONTAL CEMENT FIBER BOARD PANEL W/ 1/3 OFFSET LAYOUT - REFER TO SPECIFICATIONS 03 PRE-FINISHED EXTRUDED ALUMINUM SIDING - REFER TO 	
SPECIFICATIONS JCHNEDWARD MJELLER 04 HORIZONTAL CEMENT FIBER BOARD PANEL W/ STACK BOND LAYOUT. VERTICAL SEAMS TO BE CONSTRUCTED MOARCHTECTURAL LICENSE A20100 SIM. TO VERT. CONTROL JOINTS - REFER TO Date Description SPECIFICATIONS 04/14/17 ISSUED FOR	4008380 n
05 BUILDING SIGNAGE - REFER TO SPECS. FOR MORE	
06 PRE-FINISHED ALUM. STOREFRONT - REFER TO SPECIFICATIONS FOR MORE INFORMATION	
07 VERTICAL CONTR JOINT - REFER TO SPECIFICATIONS FOR MORE INFORMATION	
08 PRE-FINISHED ALUM. FENCE - REFER TO SPECIFICATIONS 09 MECHANICAL SCREEN FENCING - REFER TO 09 DECUSIONS AND DETAILS	
SPECIFICATIONS AND DETAILS	
TO SPECIFICATIONS 11 GAS FIREPLACE VENT CAP - REFER TO SPECIFICATIONS 12 TRAFFIC CONTROL POLLARDS, DEFER TO CIVIL DWCS	
12 TRAFFIC CONTROL BOLLARDS - REFER TO CIVIL DWGS. FOR MORE INFORMATION 13 BOOK RETURN UNIT - REFER TO SPECIFICATIONS	
14 3-5/8" BRICK VENEER - REFER TO SPECIFICATIONS	
 15 COMPOSITE METAL PANEL WRAPPED CANOPY - REFER TO SPECIFICATIONS 16 PRE-FINISHED METAL GUTTER & DOWNSPOUT, REFER TO CIVIL DRAWINGS. 17 PRE-FINISHED STANDING SEAM METAL ROOFING - REFER 	

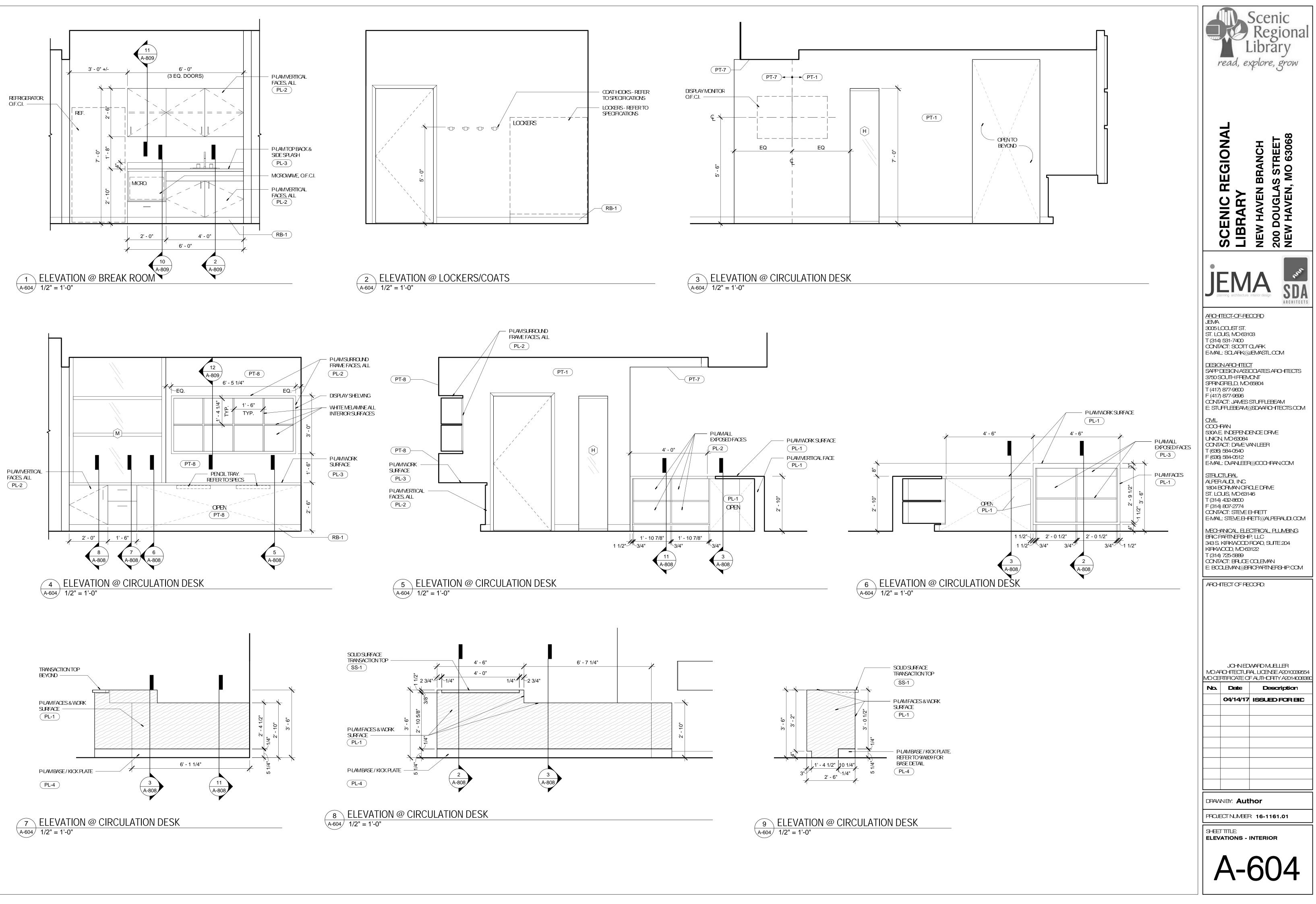
01	PRE-FINISHED METAL COPING				
02	HORIZONTAL CEMENT FIBER BOARD PANEL W/ 1/3 OFFSET LAYOUT - REFER TO SPECIFICATIONS				
03	PRE-FINISHED EXTRUDED ALUMINUM SIDING - REFER TO SPECIFICATIONS		-		_
04	HORIZONTAL CEMENT FIBER BOARD PANEL W/ STACK BOND LAYOUT. VERTICAL SEAMS TO BE CONSTRUCTED			TECTU CATE C	
	SIM. TO VERT. CONTROL JOINTS - REFER TO	No	. C)ate	
	SPECIFICATIONS		04	/14/17	7
05	BUILDING SIGNAGE - REFER TO SPECS. FOR MORE INFORMATION				_
06	PRE-FINISHED ALUM. STOREFRONT - REFER TO SPECIFICATIONS FOR MORE INFORMATION				
07	VERTICAL CONTR JOINT - REFER TO SPECIFICATIONS FOR MORE INFORMATION				
08	PRE-FINISHED ALUM. FENCE - REFER TO SPECIFICATIONS				+
09	MECHANICAL SCREEN FENCING - REFER TO SPECIFICATIONS AND DETAILS				
10	VERTICAL CEMENT FIBER BOARD PANEL LAYOUT - REFER TO SPECIFICATIONS				
11	GAS FIREPLACE VENT CAP - REFER TO SPECIFICATIONS	DRA	MN BY	SC	;/
12	TRAFFIC CONTROL BOLLARDS - REFER TO CIVIL DWGS. FOR MORE INFORMATION	PRC	VECTI	UMBE	F
13	BOOK RETURN UNIT - REFER TO SPECIFICATIONS	SHE	ET TITL	E	-
14	3-5/8" BRICK VENEER - REFER TO SPECIFICATIONS	ELE	VATIO	ONS -	ł
15	COMPOSITE METAL PANEL WRAPPED CANOPY - REFER TO SPECIFICATIONS		•		
16	PRE-FINISHED METAL GUTTER & DOWNSPOUT, REFER TO CIVIL DRAWINGS.		Д	_	
17	PRE-FINISHED STANDING SEAM METAL ROOFING - REFER TO SPECIFICATIONS		7		
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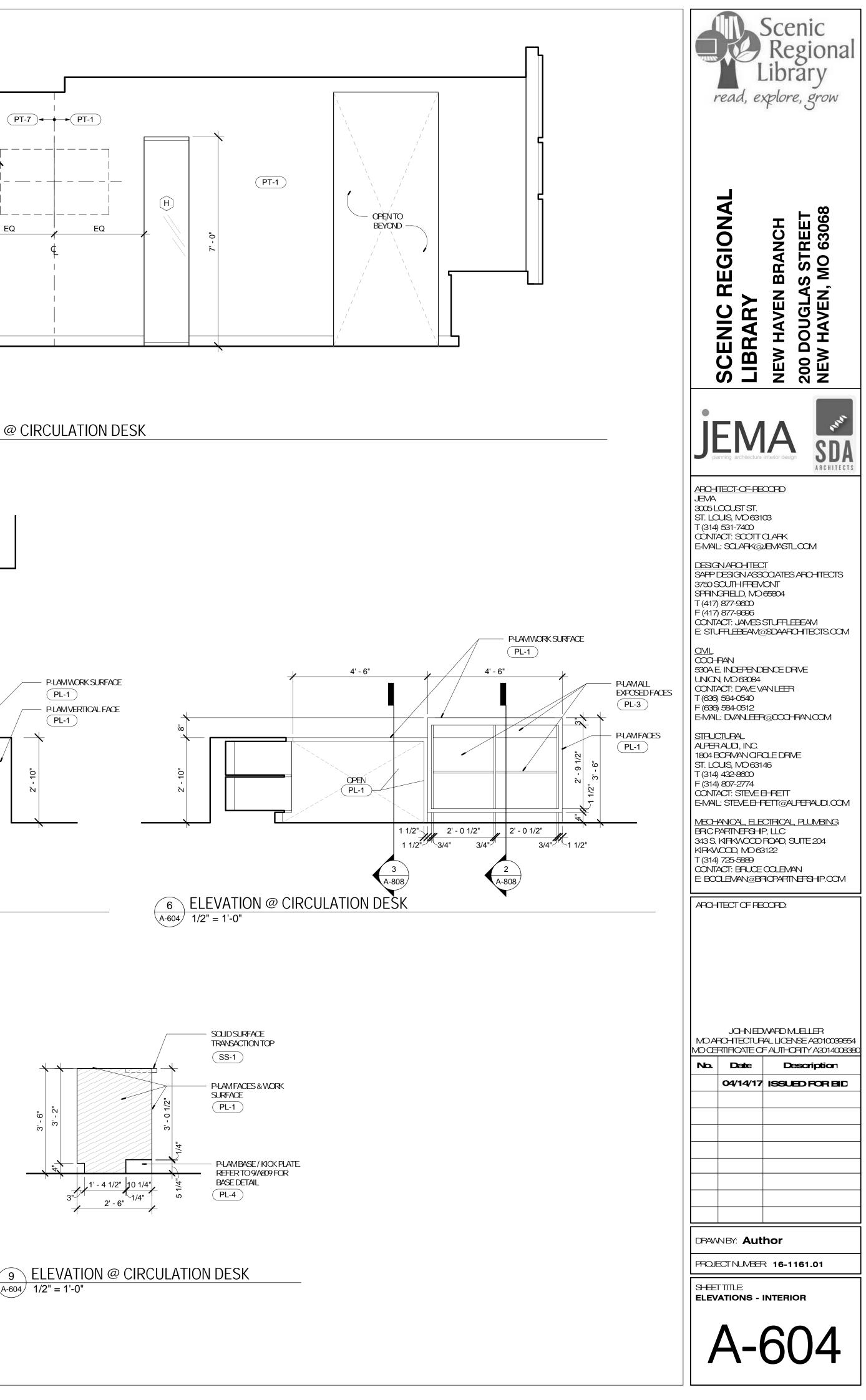


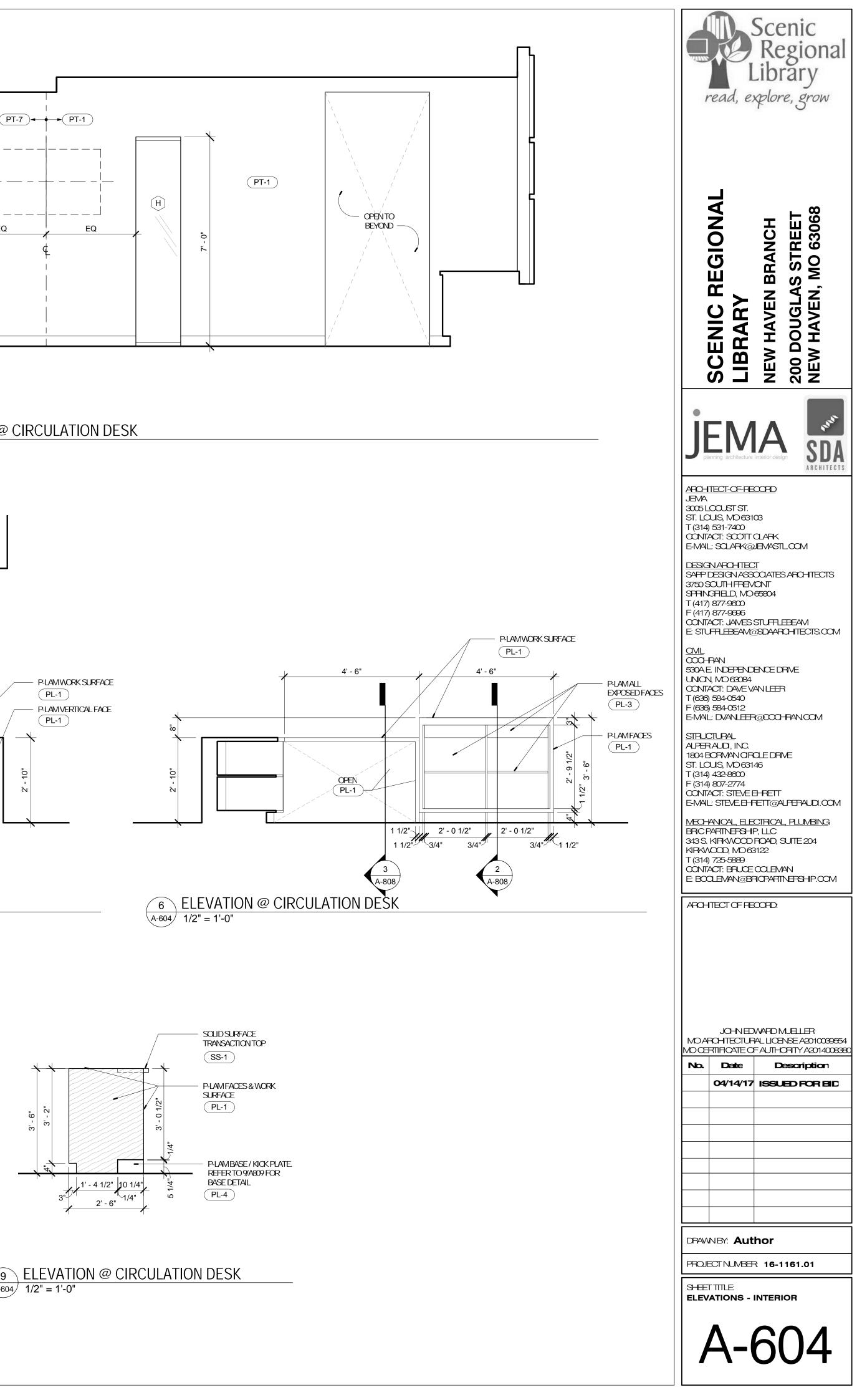


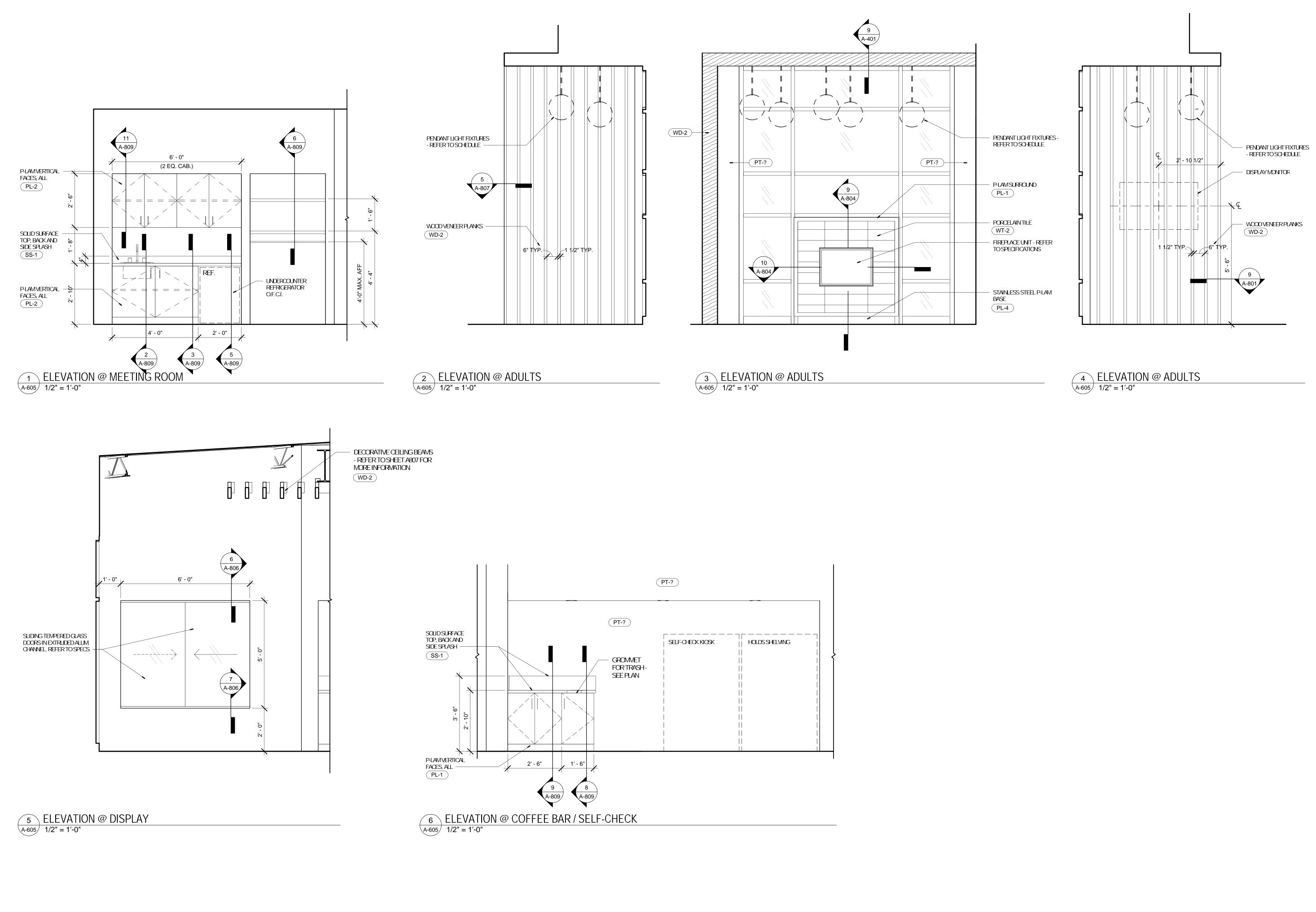
JEM planning architecture i	A
	nterior design
JEVA 3005 LOOUST ST. ST. LOUIS, MO 6310 T (314) 531-7400 CONTACT: SCOTT (E-MAIL: SCLAPK(@J	13 ILAFIK
DESIGNARCHTECT SAPP DESIGNASSC 3750 SOUTH FREM SPRINGFIELD, MOR T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES S	T DOLATES ARCHITECTS ONT 55804 STUFFLEBEAM
E: STUFFLEBEAV(@ <u>OML</u> <u>COO-FAN</u> 530A E: INDEPENDE UNON, MO 63084 <u>CONTACT: DAVE VA</u> T (636) 584-0540 F (636) 584-0512	
E-MAIL: DVANLEER STRUCTURAL ALPER AUD., INC. 1804 BORMAN ORC ST. LOUIS, MO 6314 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E	DEDRIVE 16
MECHANICAL, ELEC BRIC PARTNERSHIF 343 S. KIRKWOOD F KIRKWOOD, MO 63 T (314) 725-5889 CONTACT: BRUCE (704D, SUTE 204 122
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	VARD MJELLER AL LICENSE A20100395
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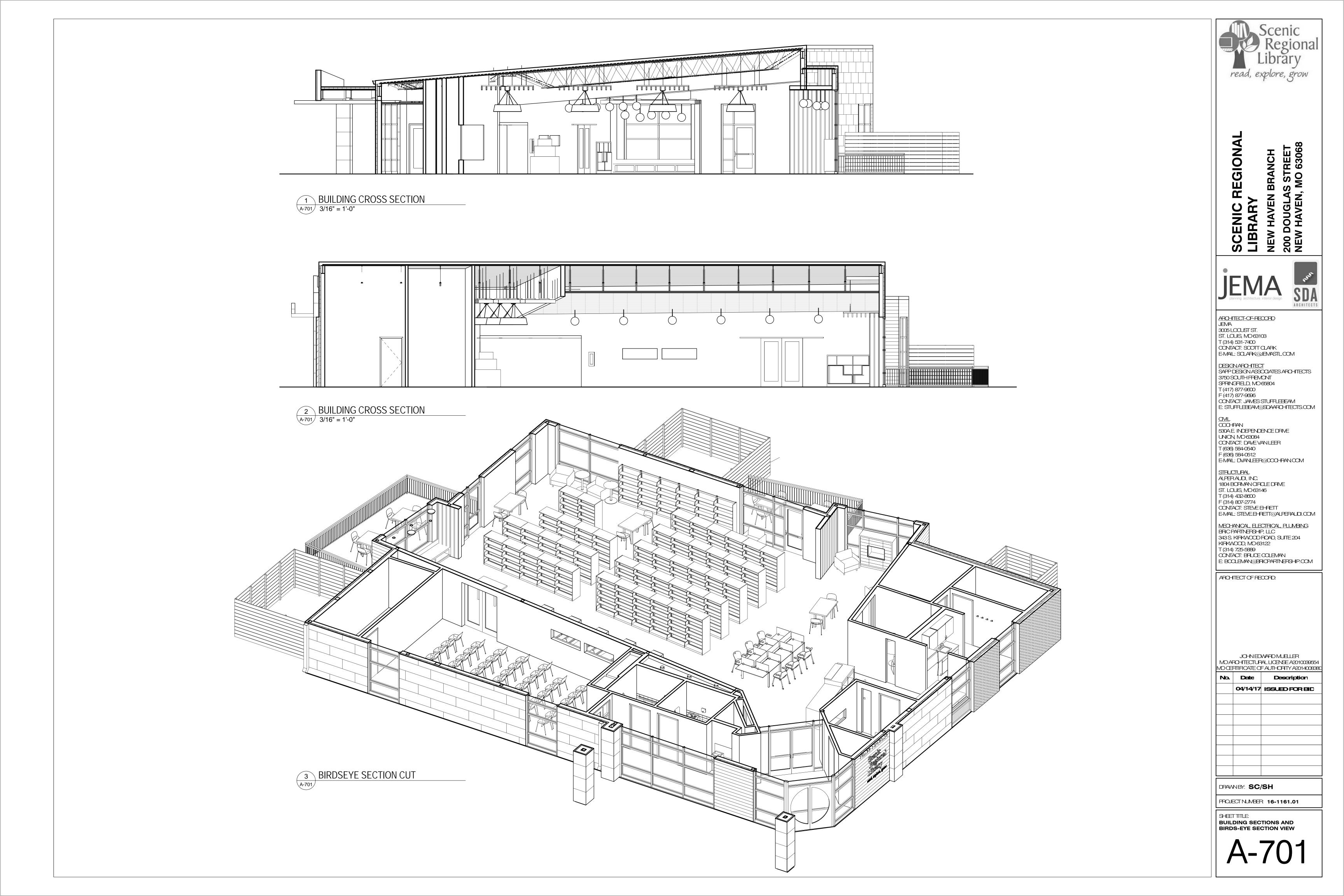


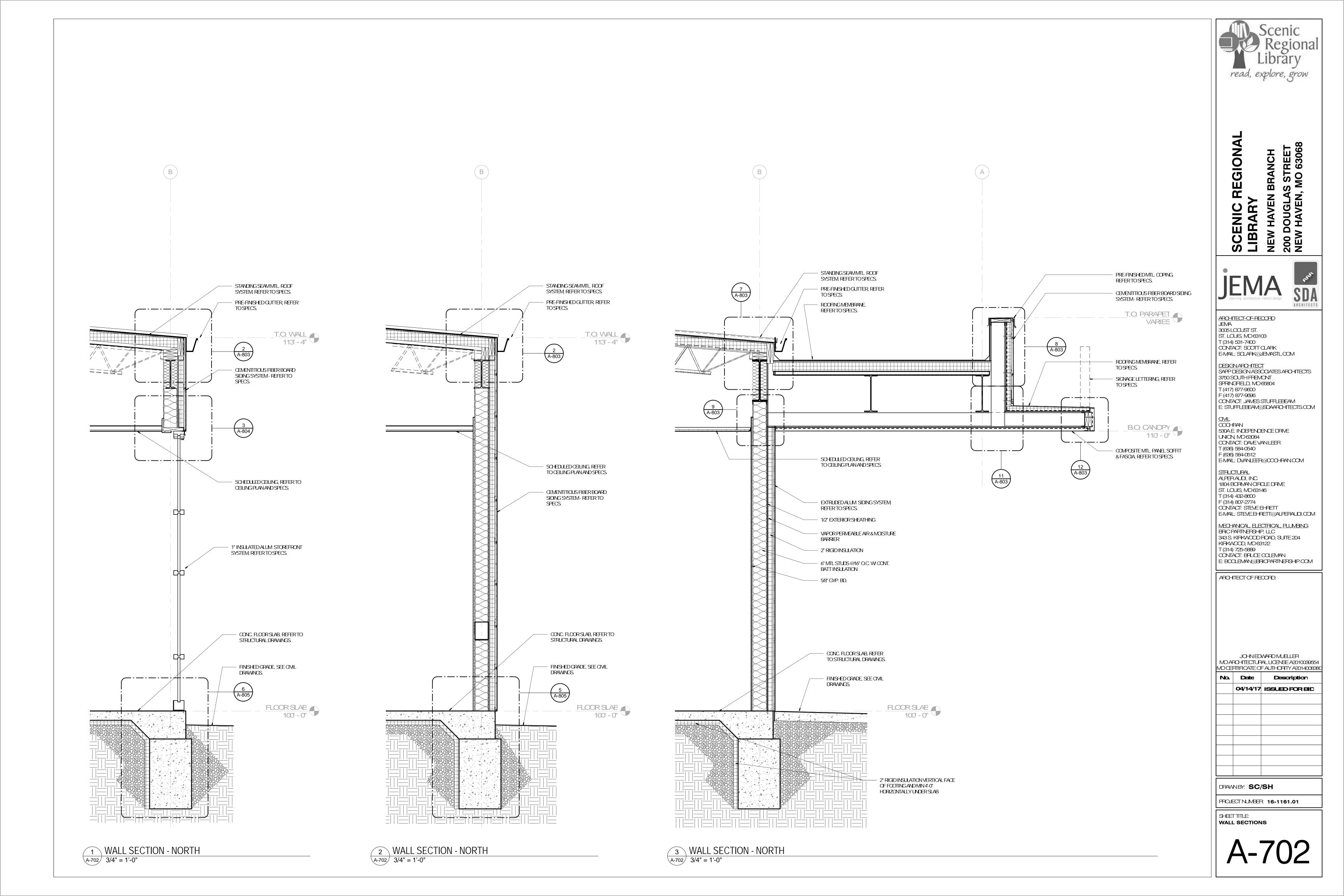


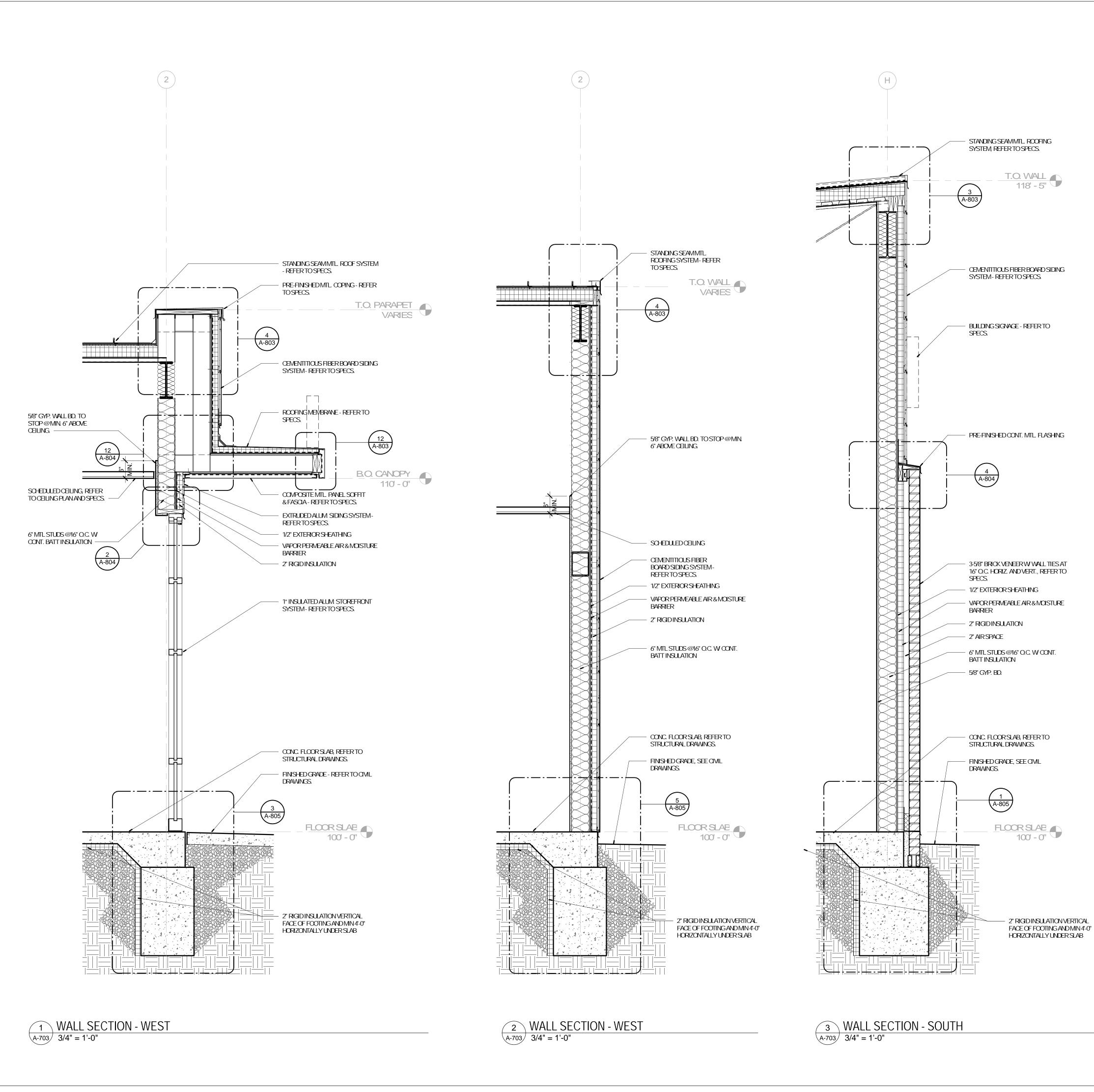


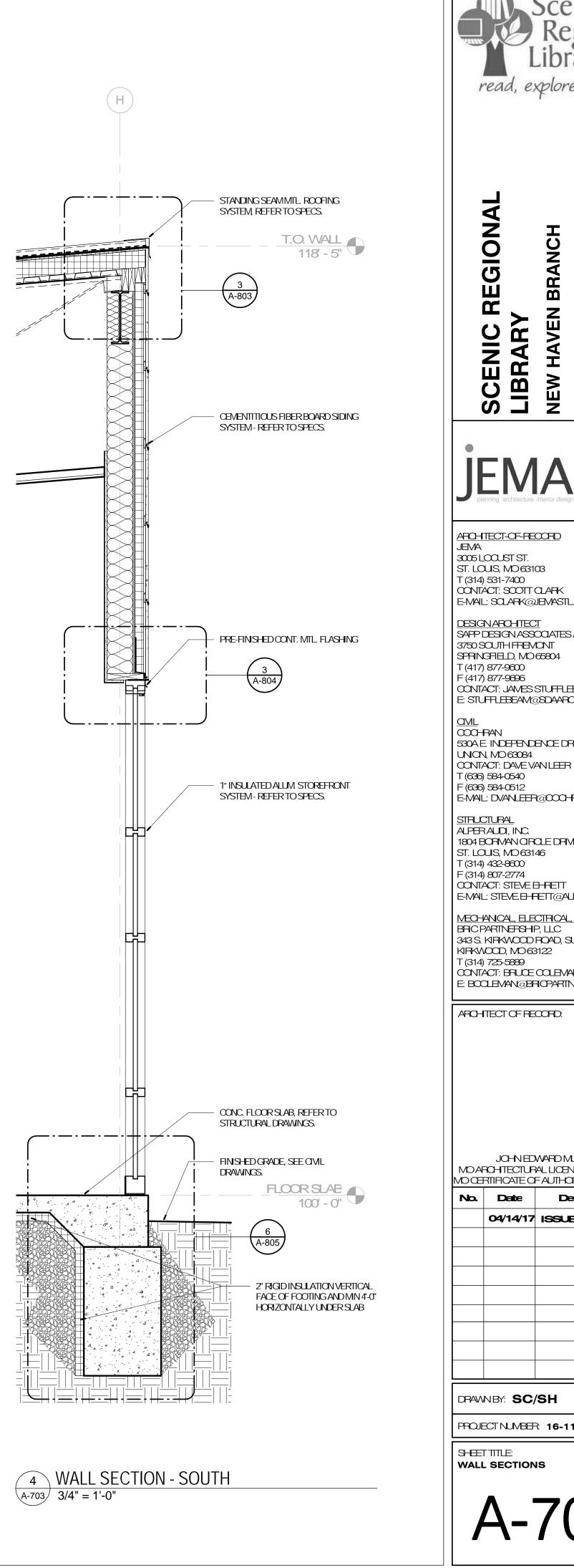


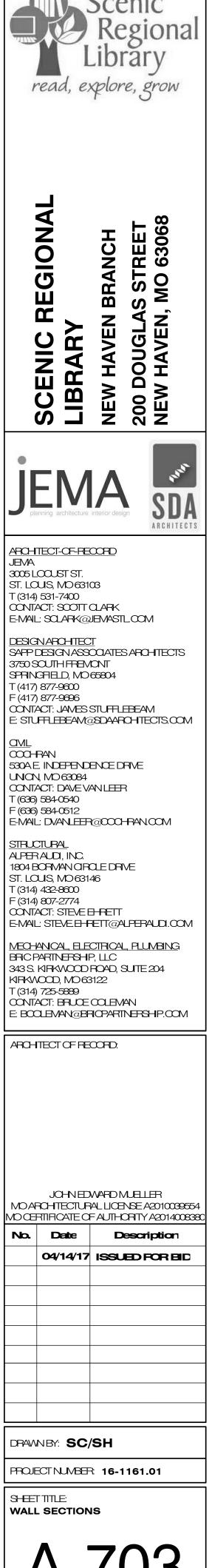
Scenic Regional Library read, explore, grow REGIONAL S STREET MO 63068 BRANCH 200 DOUGLAS NEW HAVEN, I NEW HAVEN SCENIC F LIBRARY SDA ARCHITECT ARCHITECT-OF-RECORD JEMA 3005 LOOUST ST. ST. LOUS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SCLARK@JEVASTL.COM DESIGNARCHITECT SAPP DESIGNASSOCIATES ARCHITECTS 3750 SOUTH FREMONT SPRINCFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAM E: STUFFLEBEAM@SDAARCHITECTS.COM <u>CIML</u> COCHRAN 530A E. INDEPENDENCE DRIVE UNION, MO 63084 CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEER@0000-RAN.COM <u>STRUCTURAL</u> ALPERAUD, INC. 1804 BORMAN OROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E-RETT E-MAL: STEVE.E-RETT@ALPERAUD.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEVAN@BRIOPARINERSHP.COM ARCHITECT OF RECORD. JOHN EDWARD MUELLER MOARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.01 SHEET TITLE: **ELEVATIONS - INTERIOR**

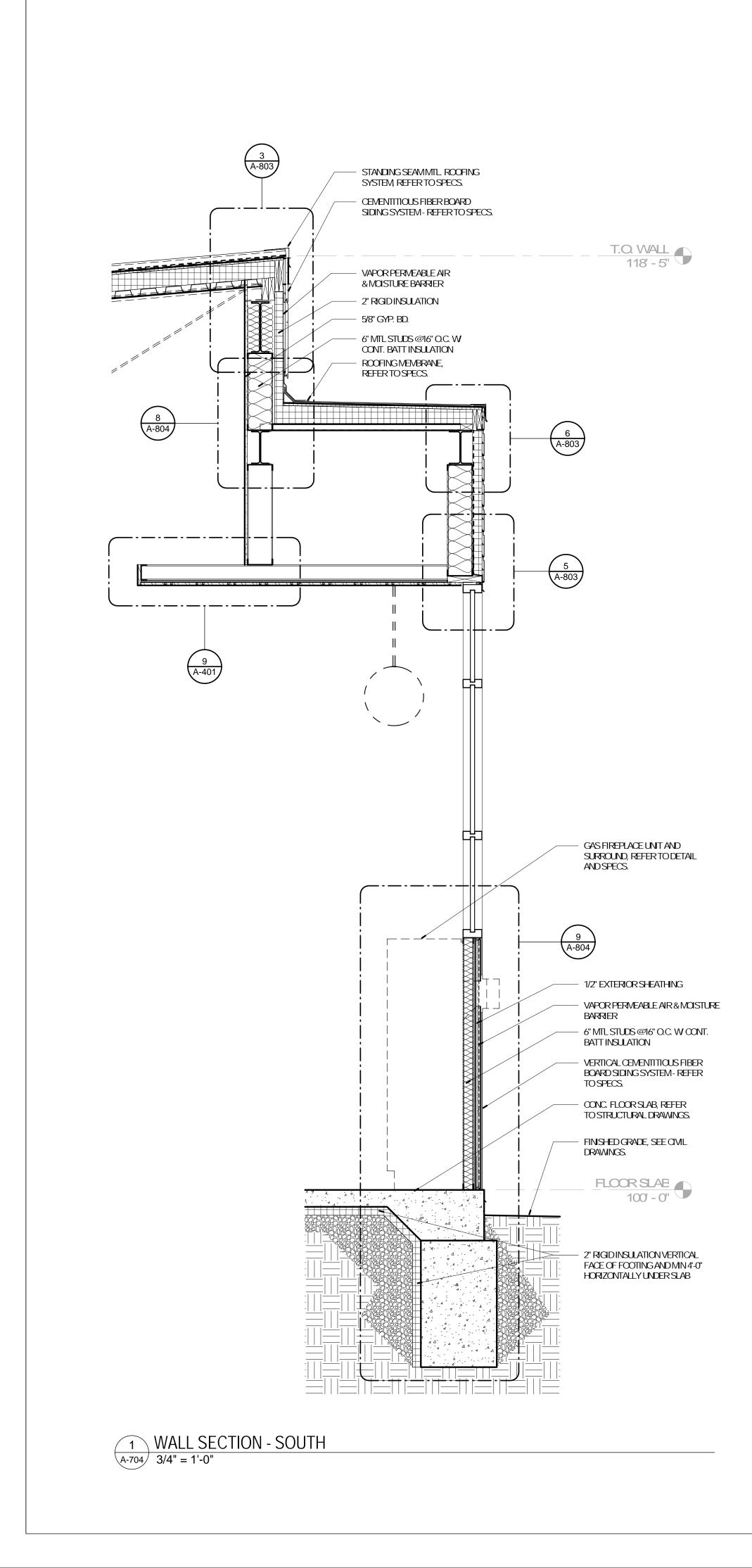


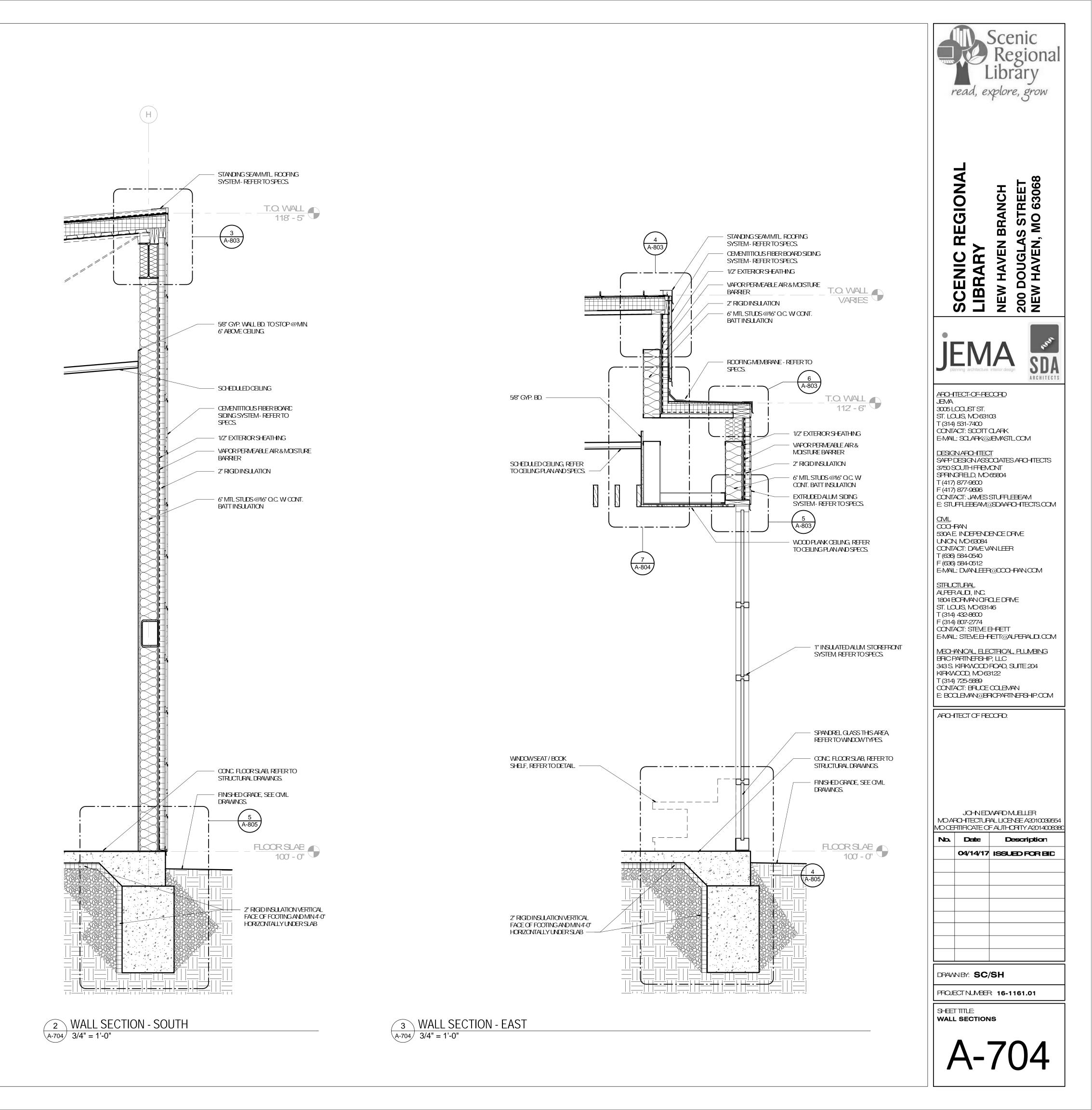


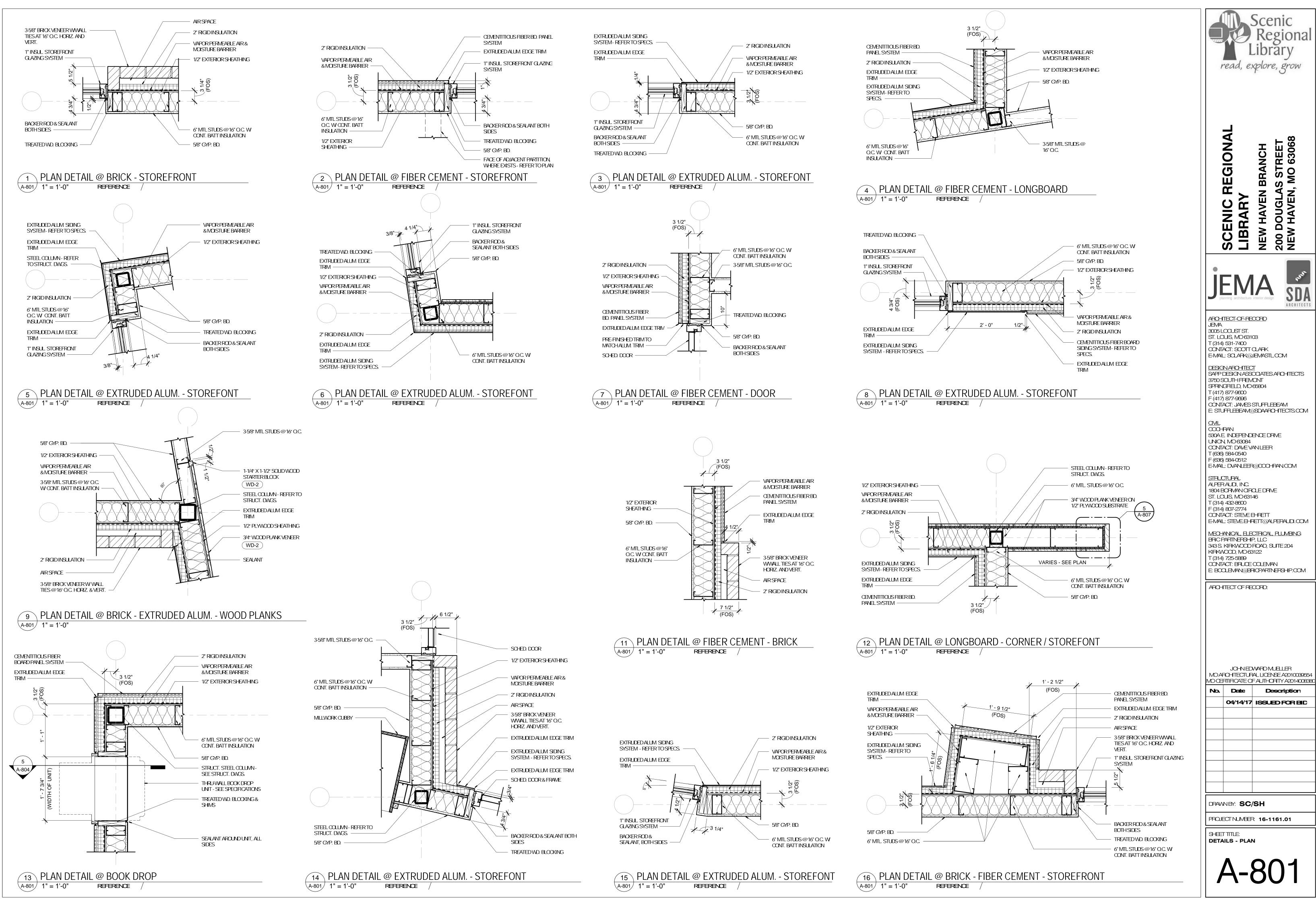


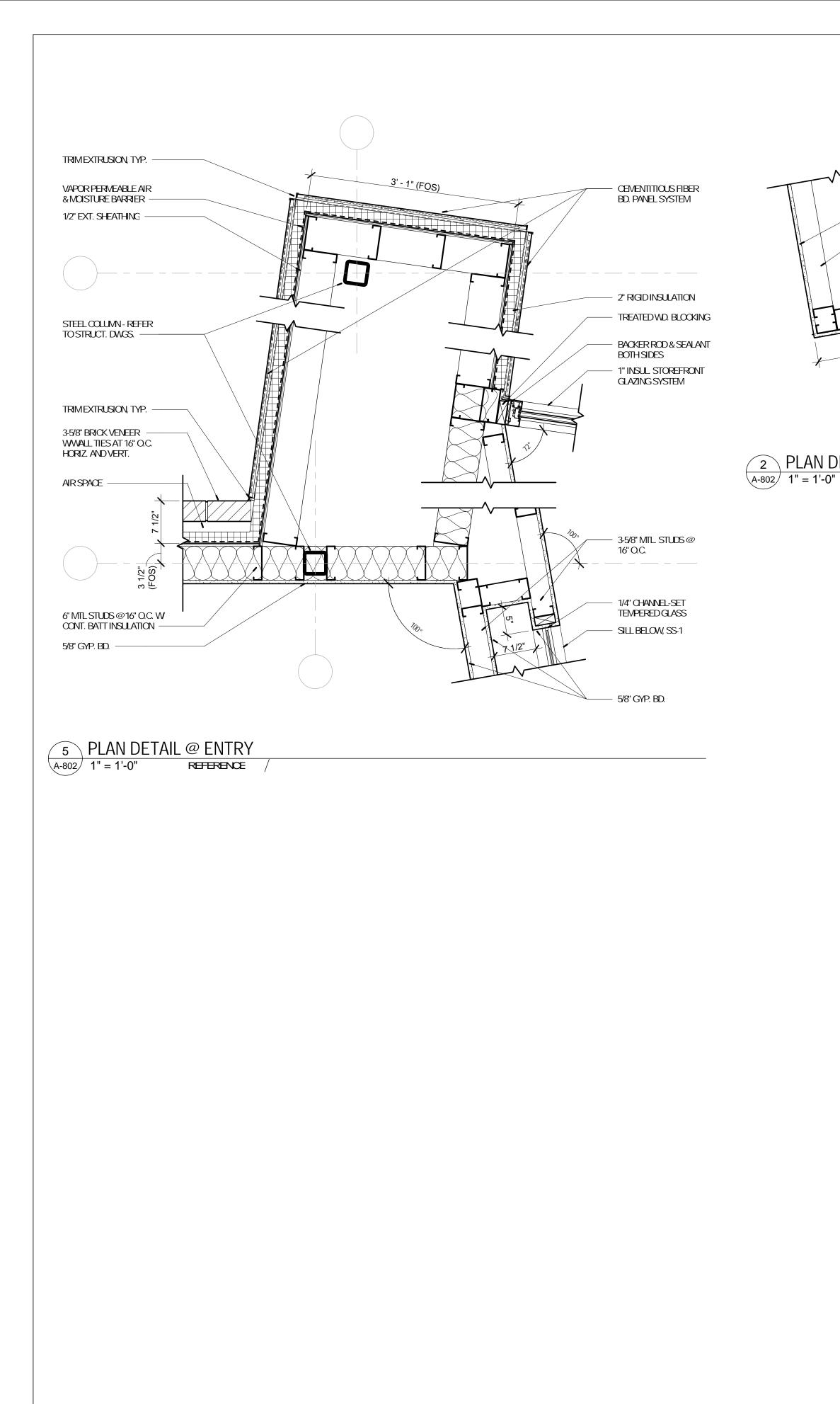


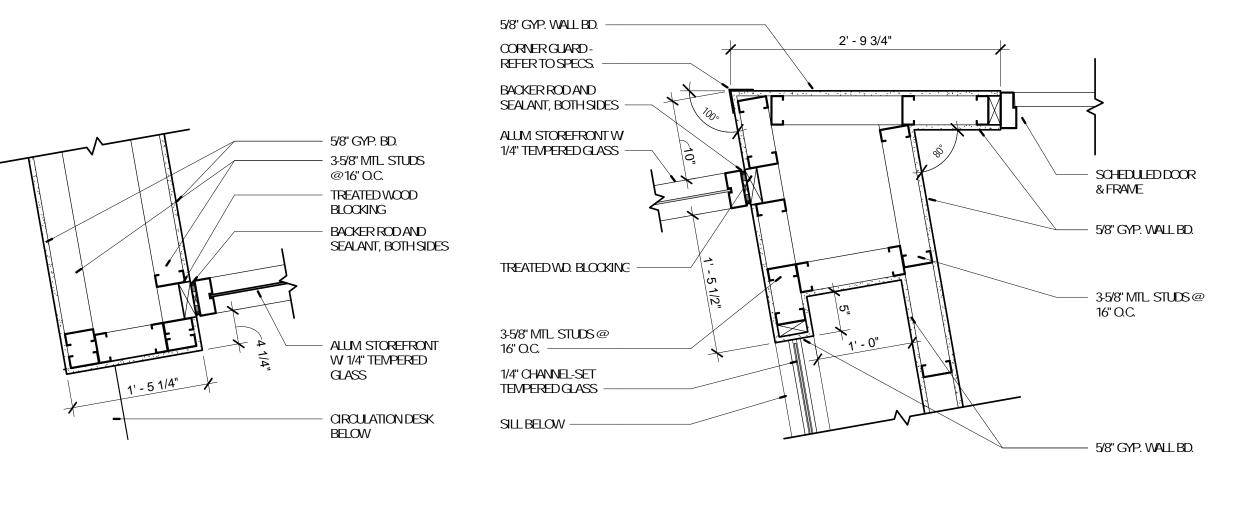








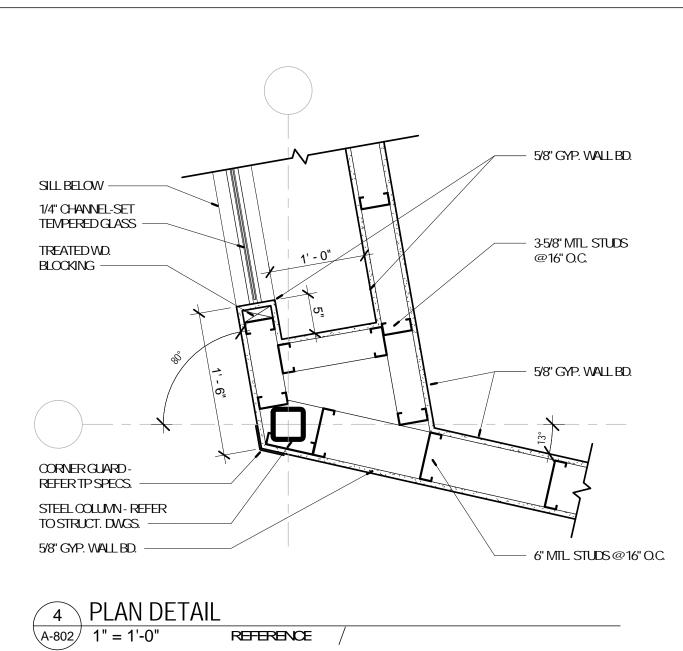




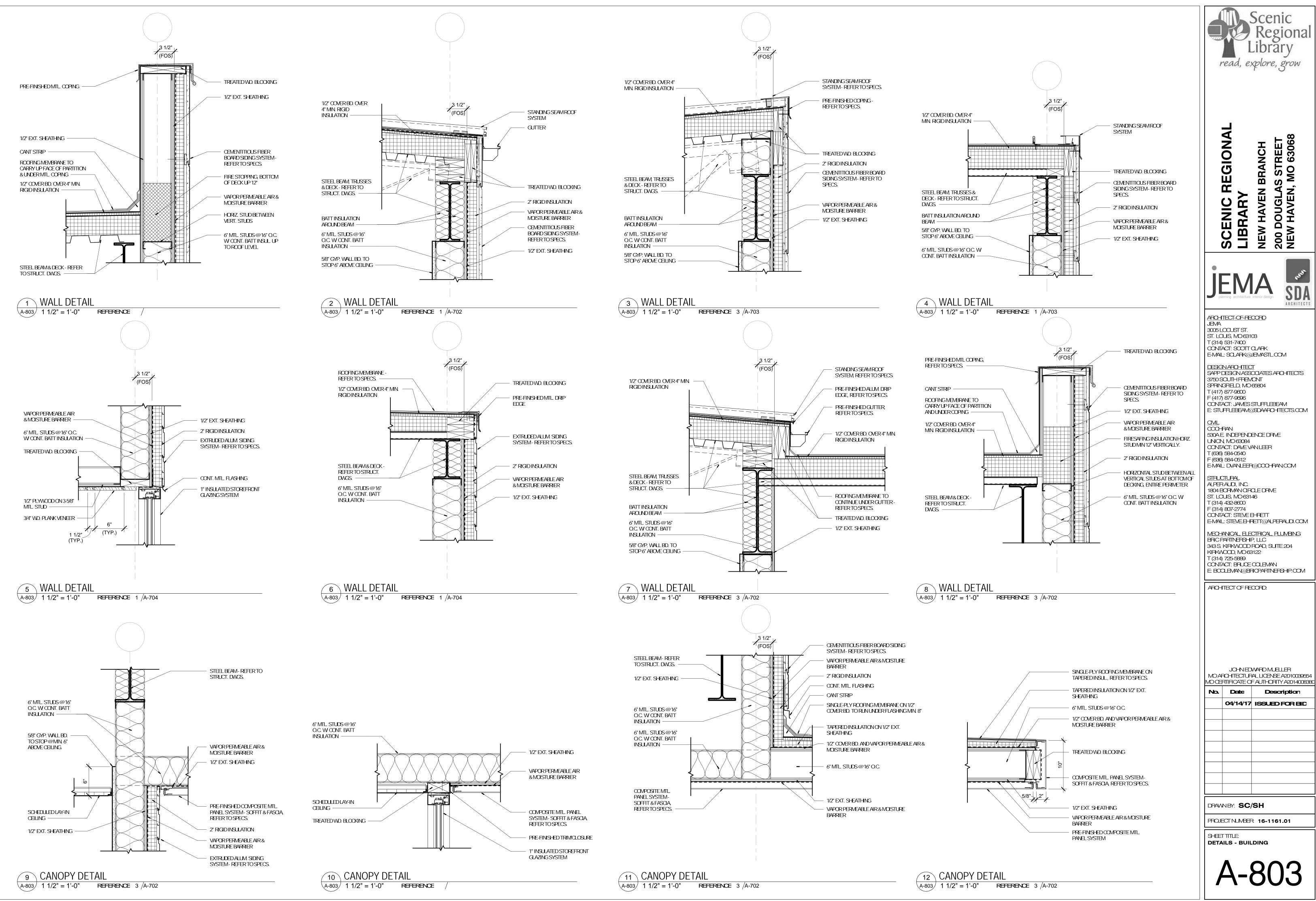
2 PLAN DETAIL

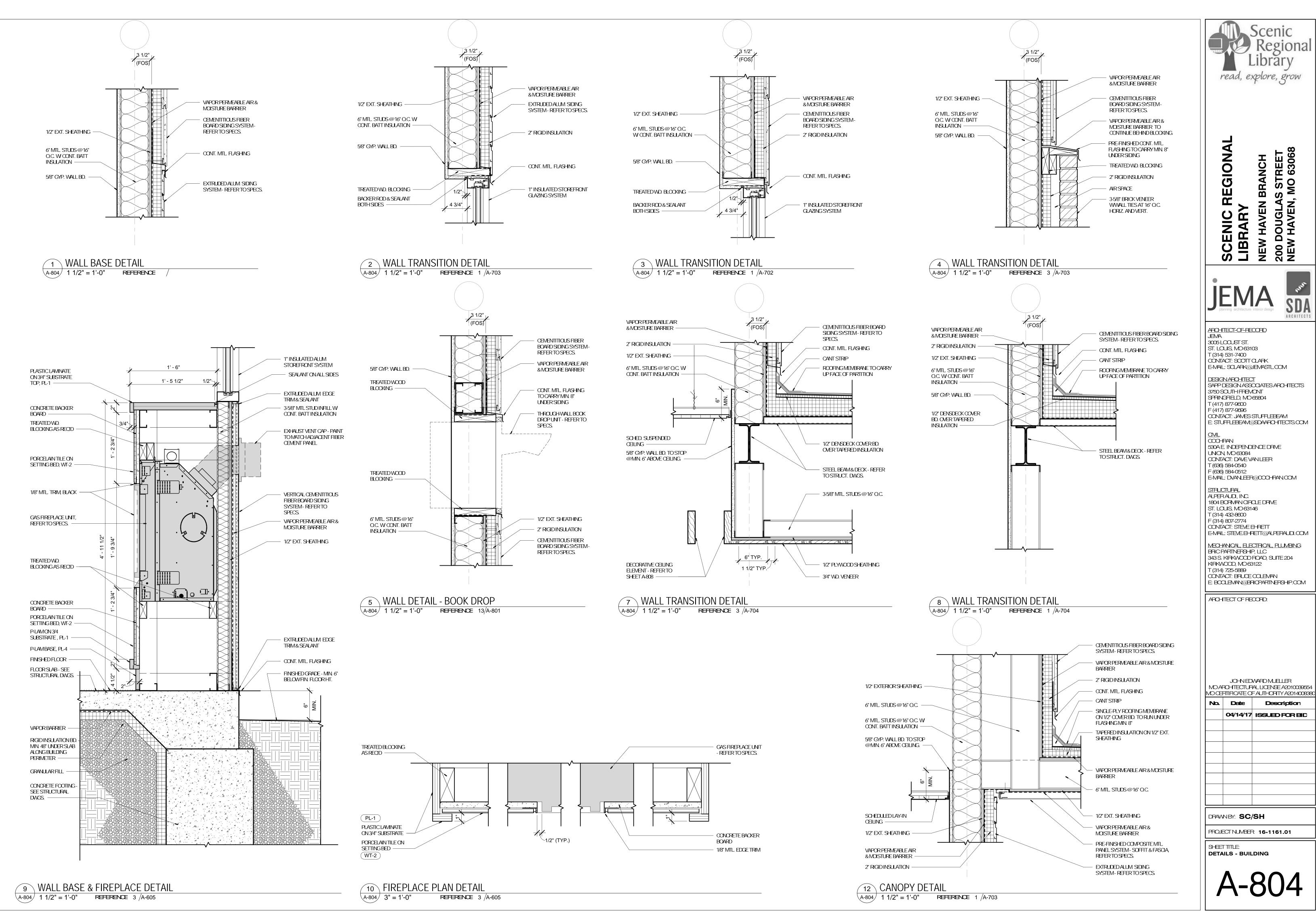
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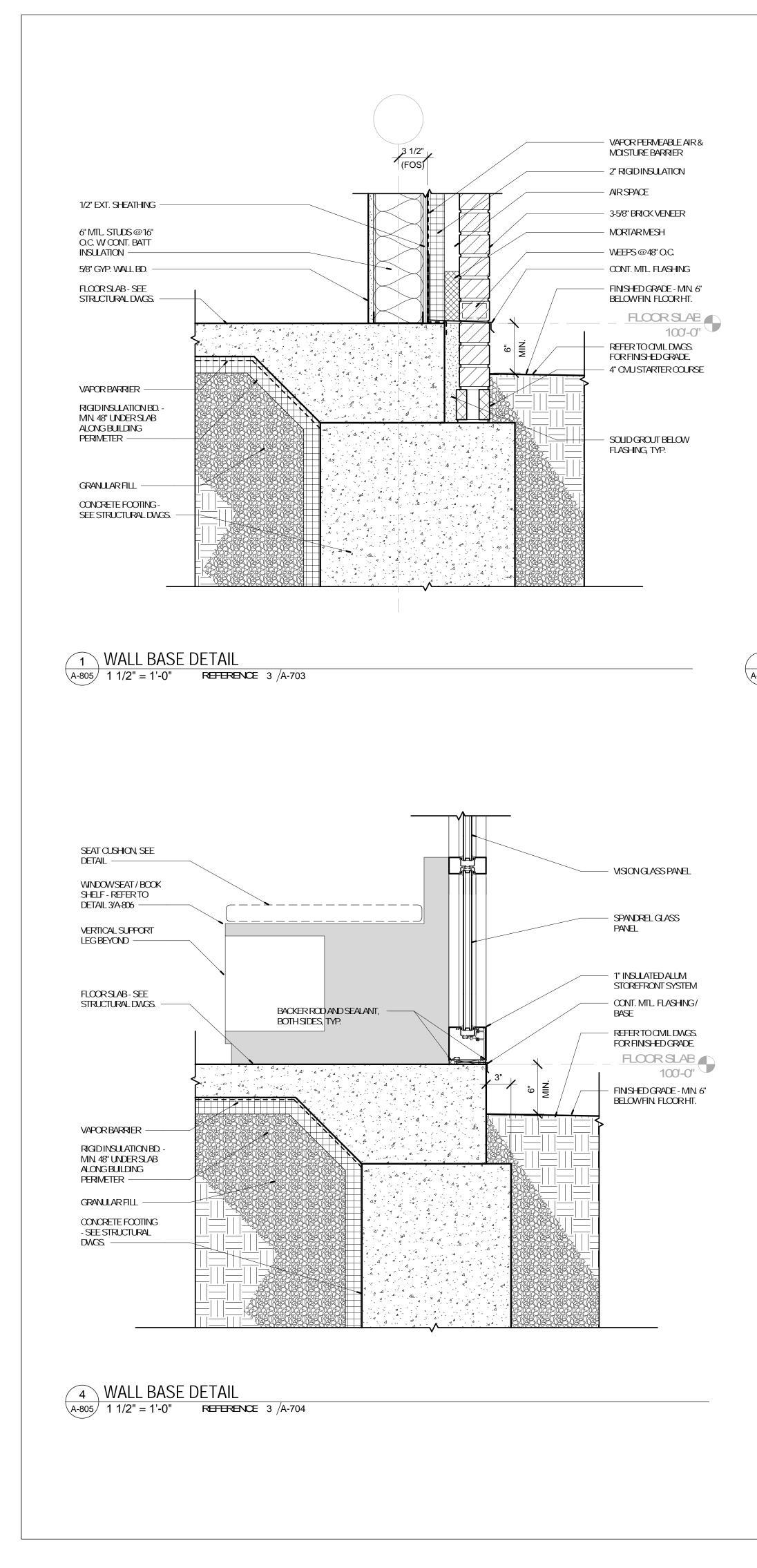
3 PLAN DETAIL A-802 1" = 1'-0" REFERENCE

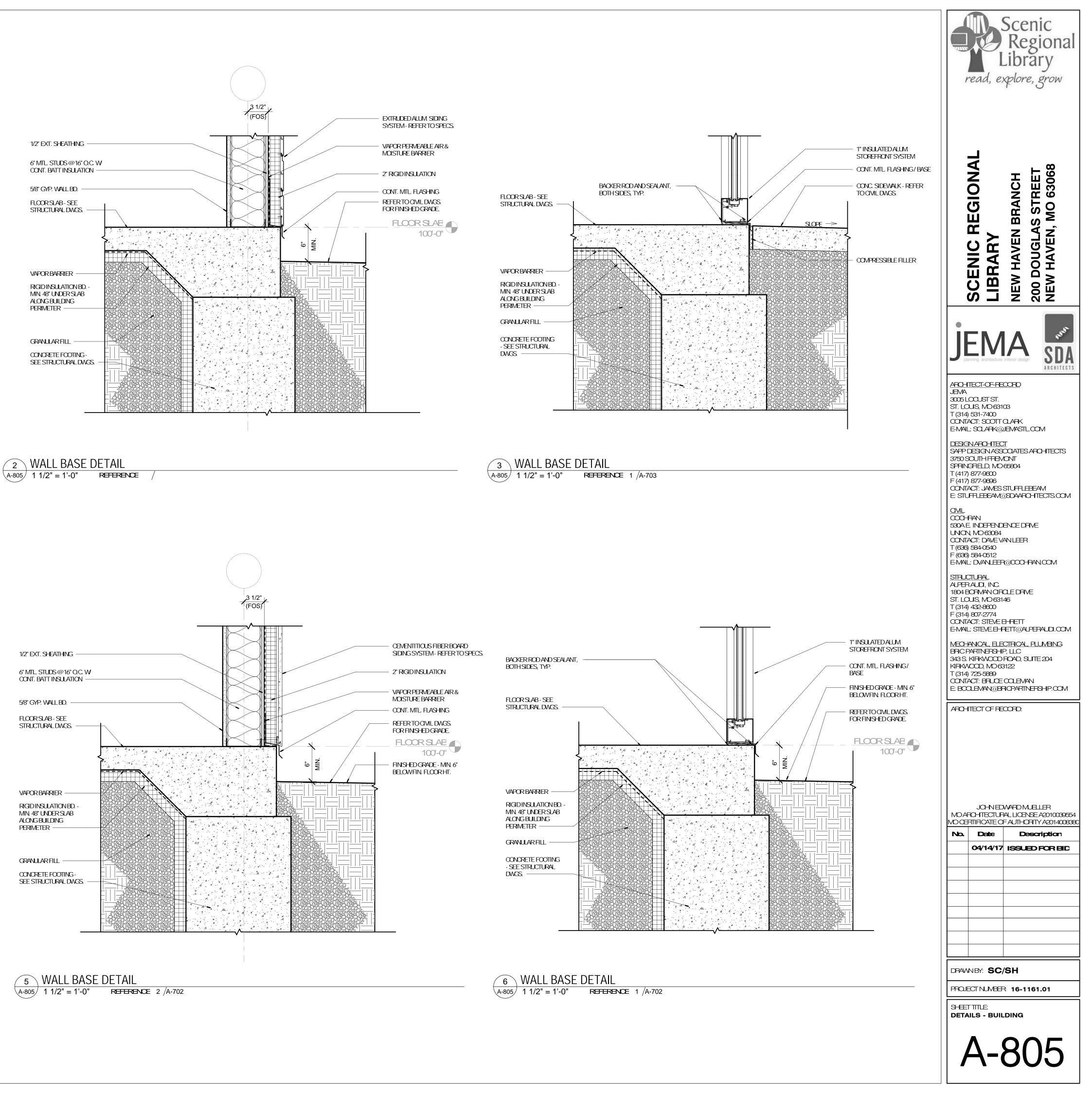


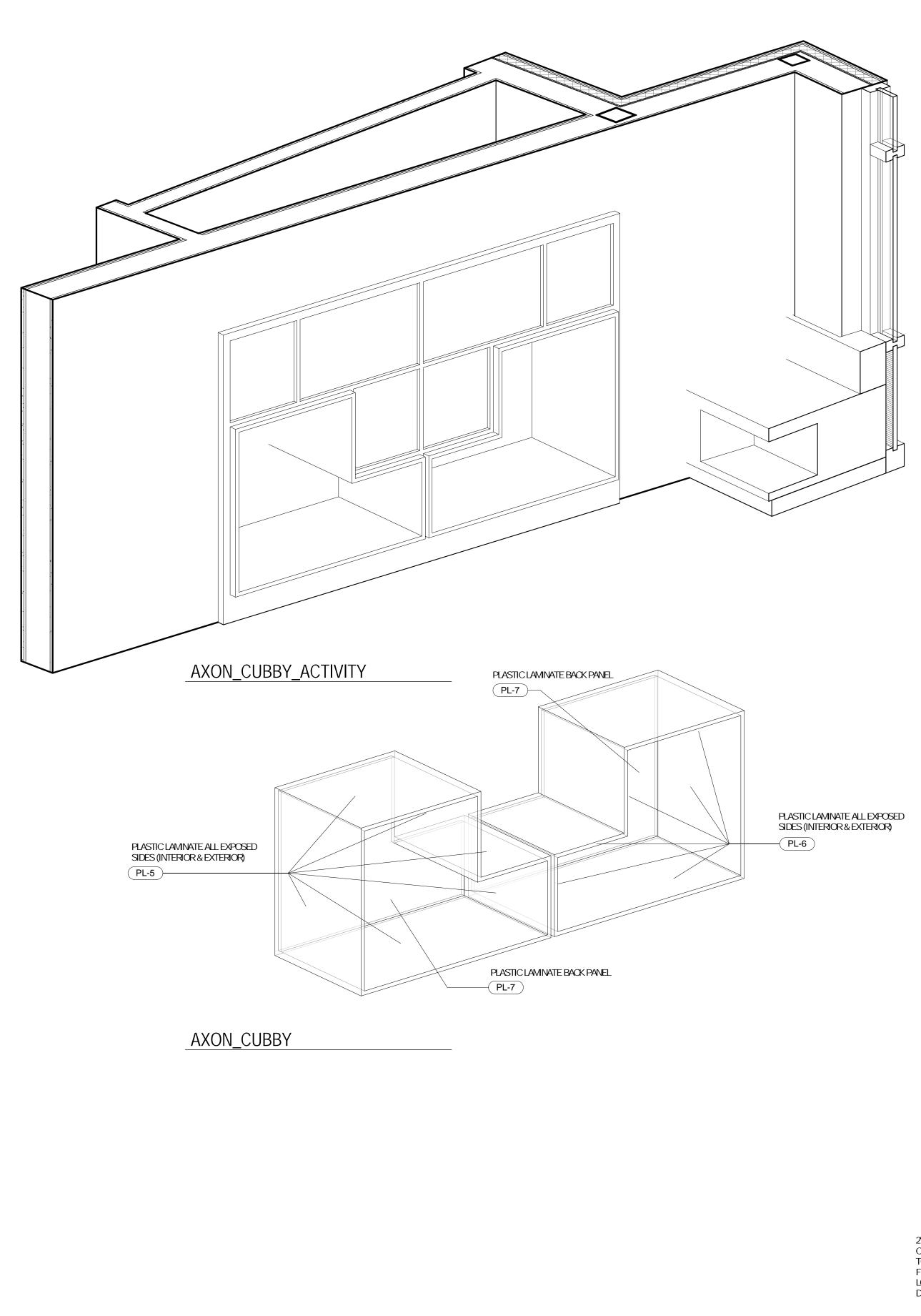
cenic Regional Library read, explore, grow 4 S STREET MO 63068 **REGION** BRANCH 200 DOUGLAS NEW HAVEN, NEW HAVEN \succ SCENIC LIBRARY SDA ARCHITECT ARCHITECT-OF-RECORD JEMA 3005 LOOUST ST. ST. LOUS, MO 63103 T (314) 531-7400 CONTACT: SCOTT CLARK E-MAIL: SOLARK@JEMASTL.COM DESIGNARCHTECT SAPP DESIGNASSOCIATES ARCHTECTS 3750 SOUTH FREMONT SPRINGFIELD, MO 65804 T (417) 877-9600 F (417) 877-9696 CONTACT: JAVES STUFFLEBEAM E: STUFFLEBEAM@8DAAROHTECTS.COM <u>CIML</u> CCCHRAN 530A.E. INDEPENDENCE DRIVE UNICN, MO 63084 CONTACT: DAVE VAN LEER T. (CONTACT: DAVE VAN LEER T (636) 584-0540 F (636) 584-0512 E-MAL DVANLEER@COCH-BAN.COM <u>STRUCTURAL</u> ALPERAUDI, INC. 1804 BORMAN GROLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E-RETT E-MAIL: STEVE.E-RETT@ALPERAUD.COM MECHANICAL, ELECTRICAL, PLUMBING BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MD 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BOOLEMAN@BRIOPARINERSHP.COM ARCHITECT OF RECORD. JOHN EDWARD MJELLER MOARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380 No. Date Description 04/14/17 ISSUED FOR BID DRAWN BY: SC/SH PROJECT NUMBER: 16-1161.01 SHEET TITLE: DETAILS - PLAN

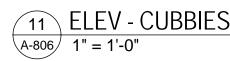


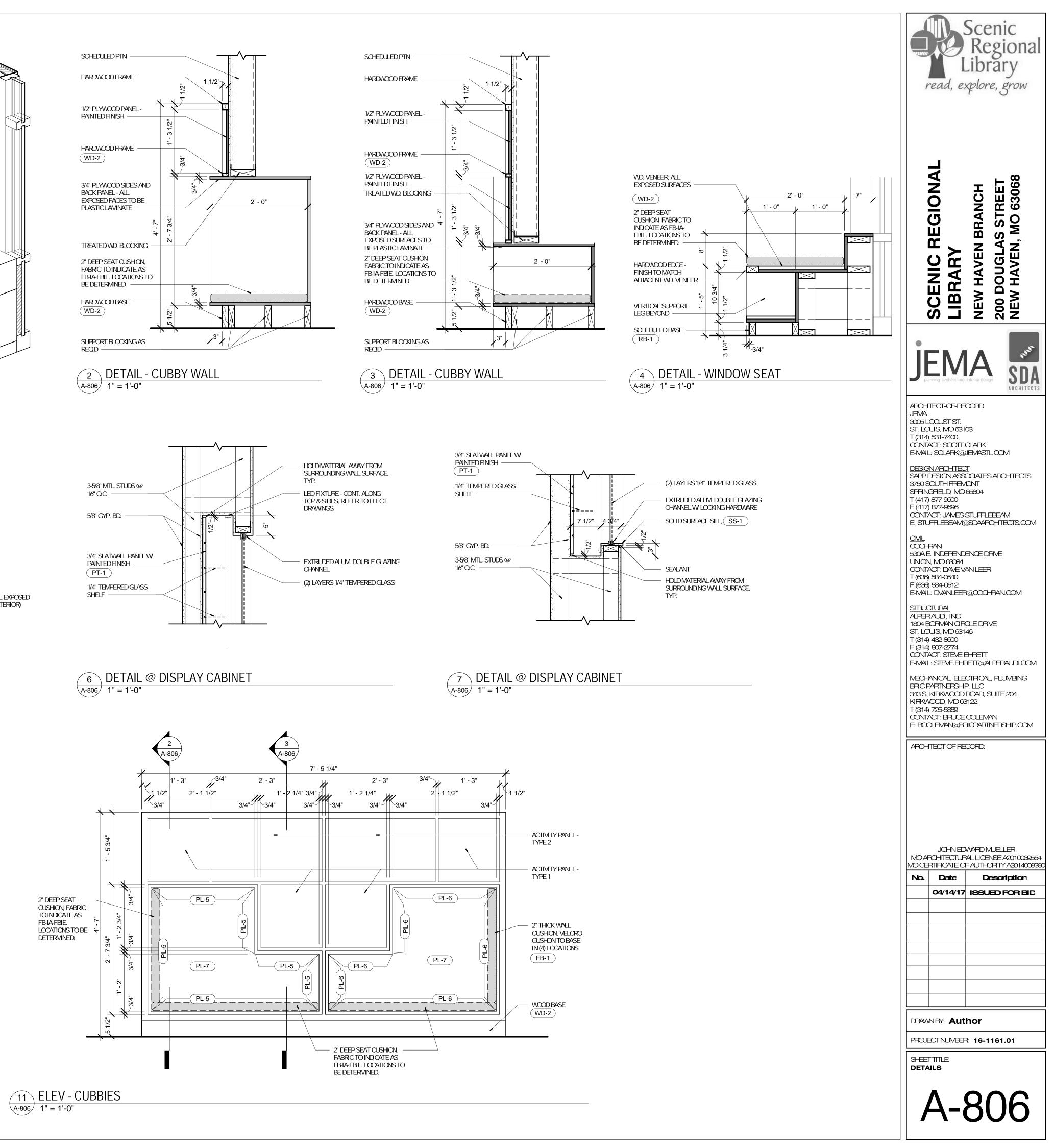




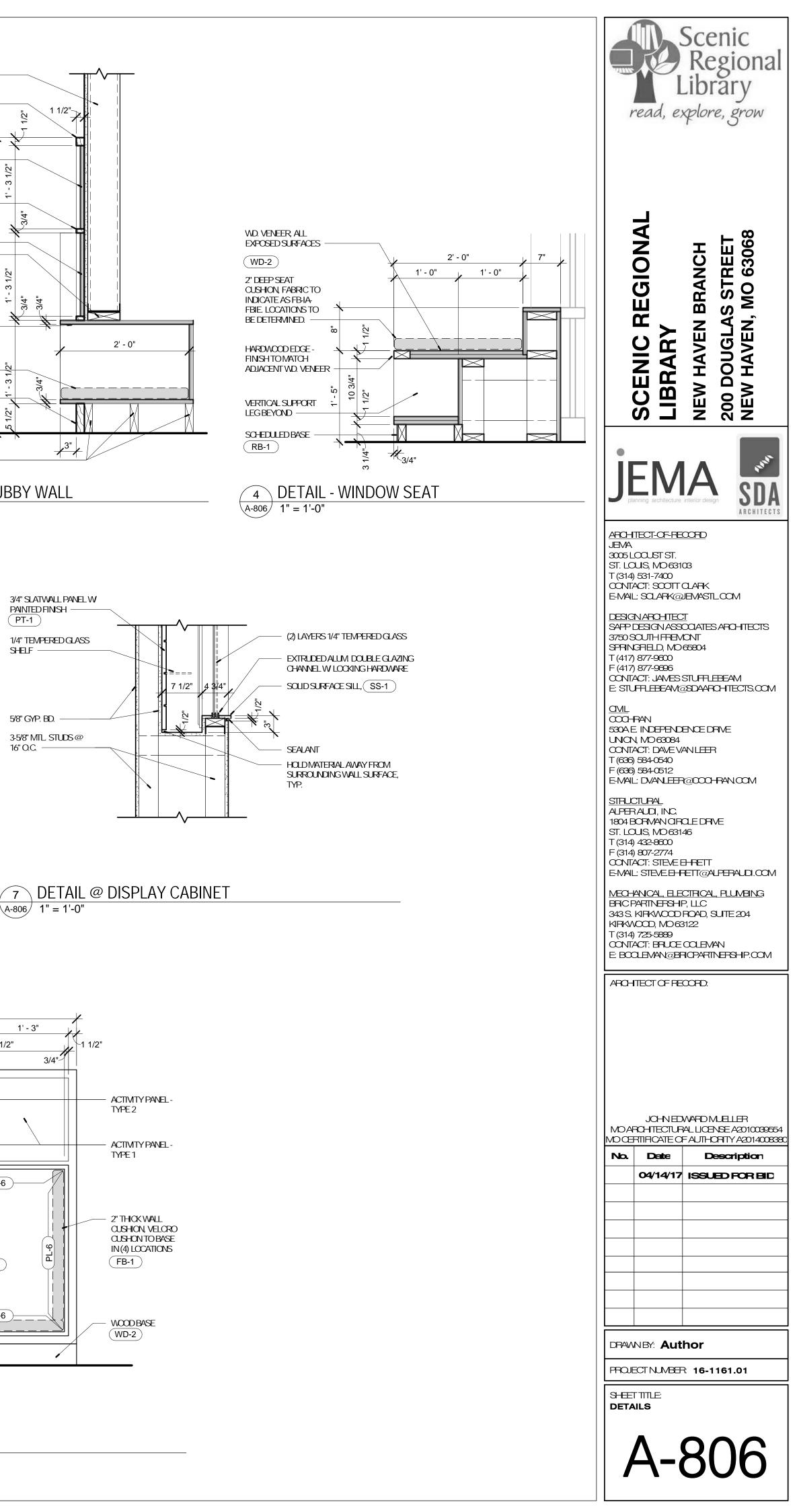




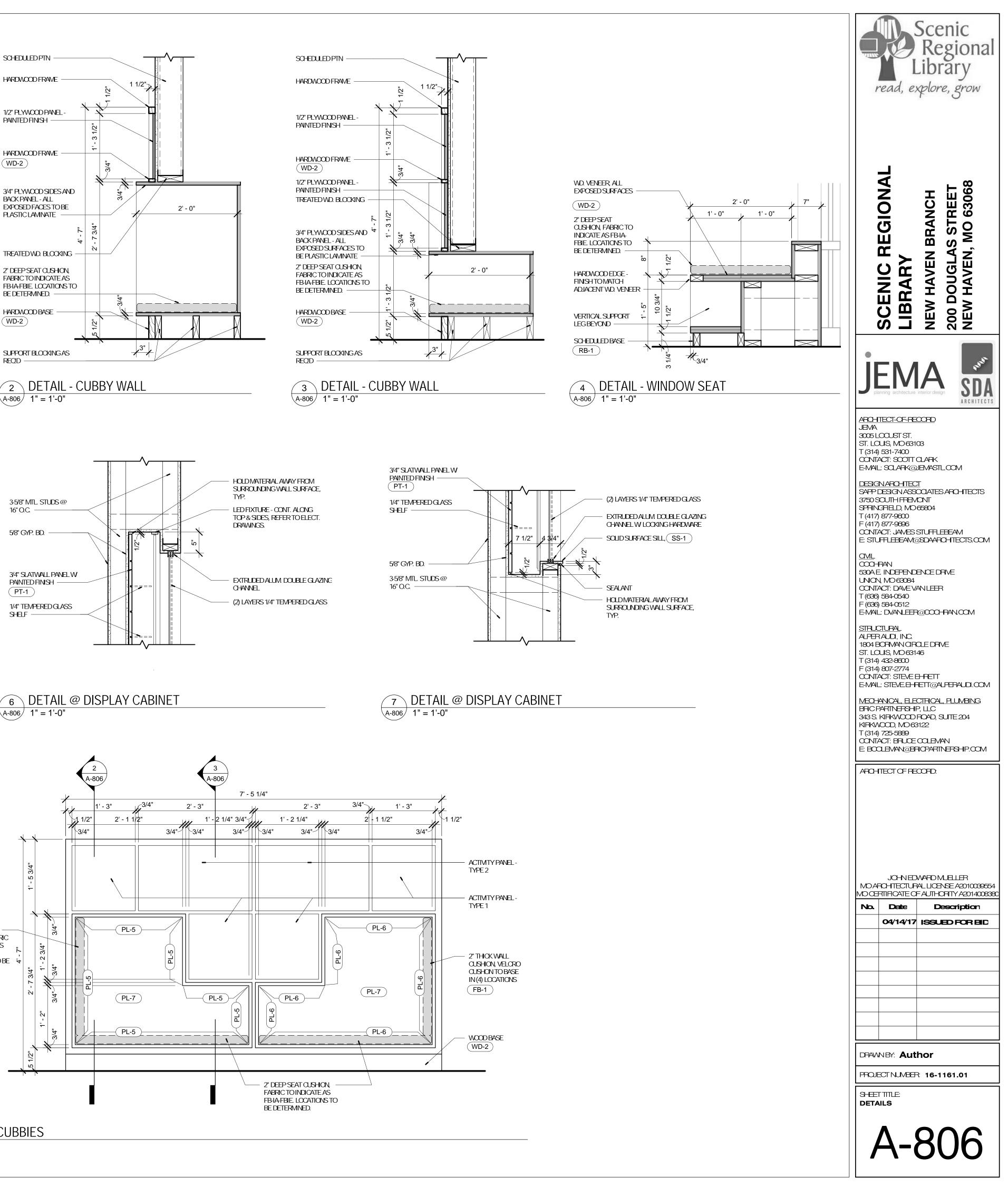


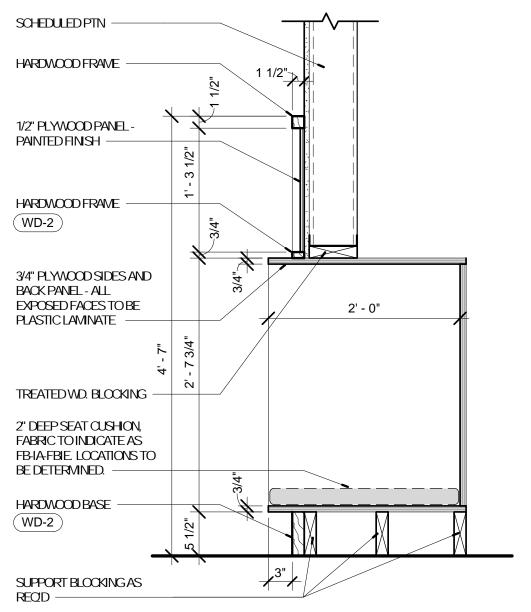


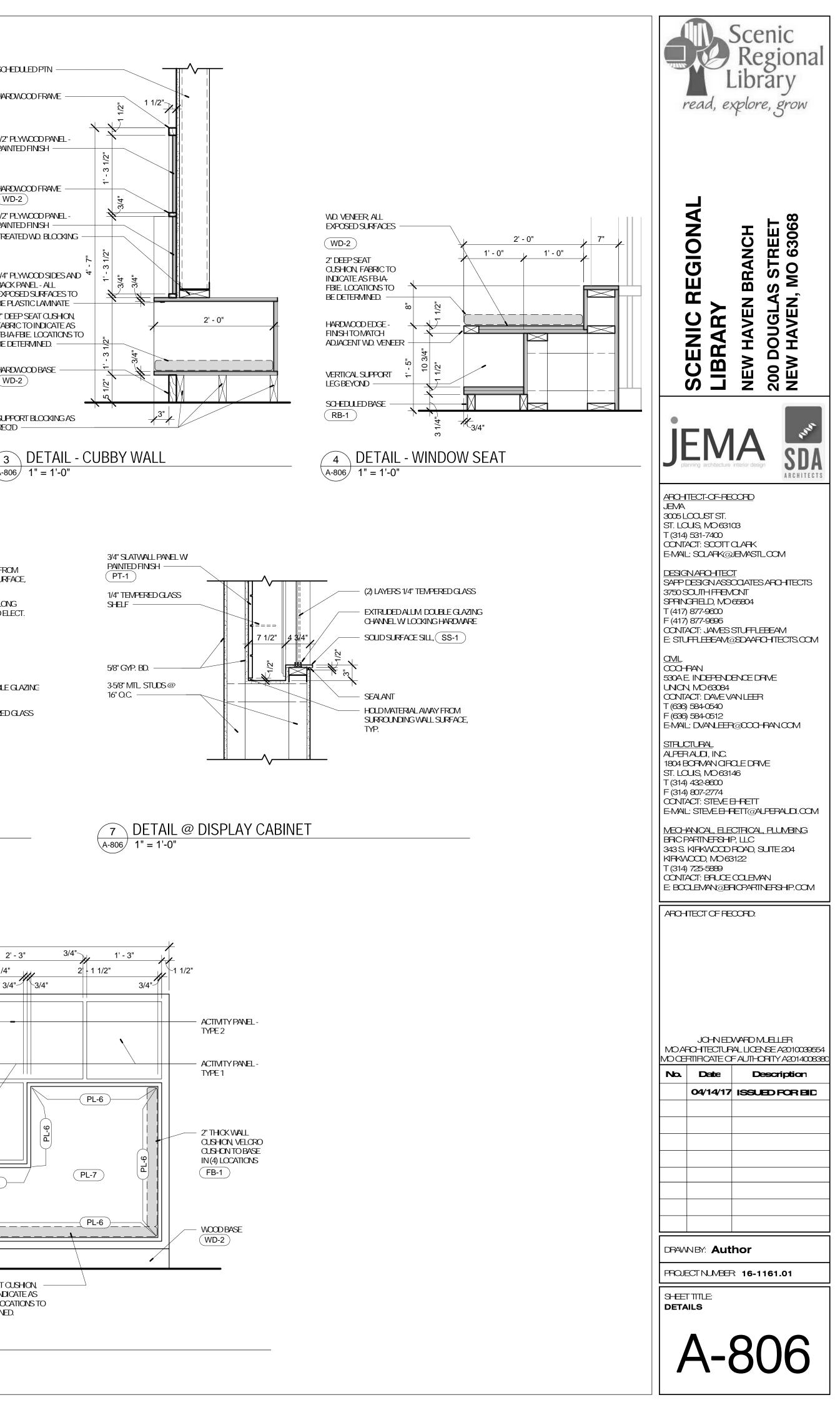




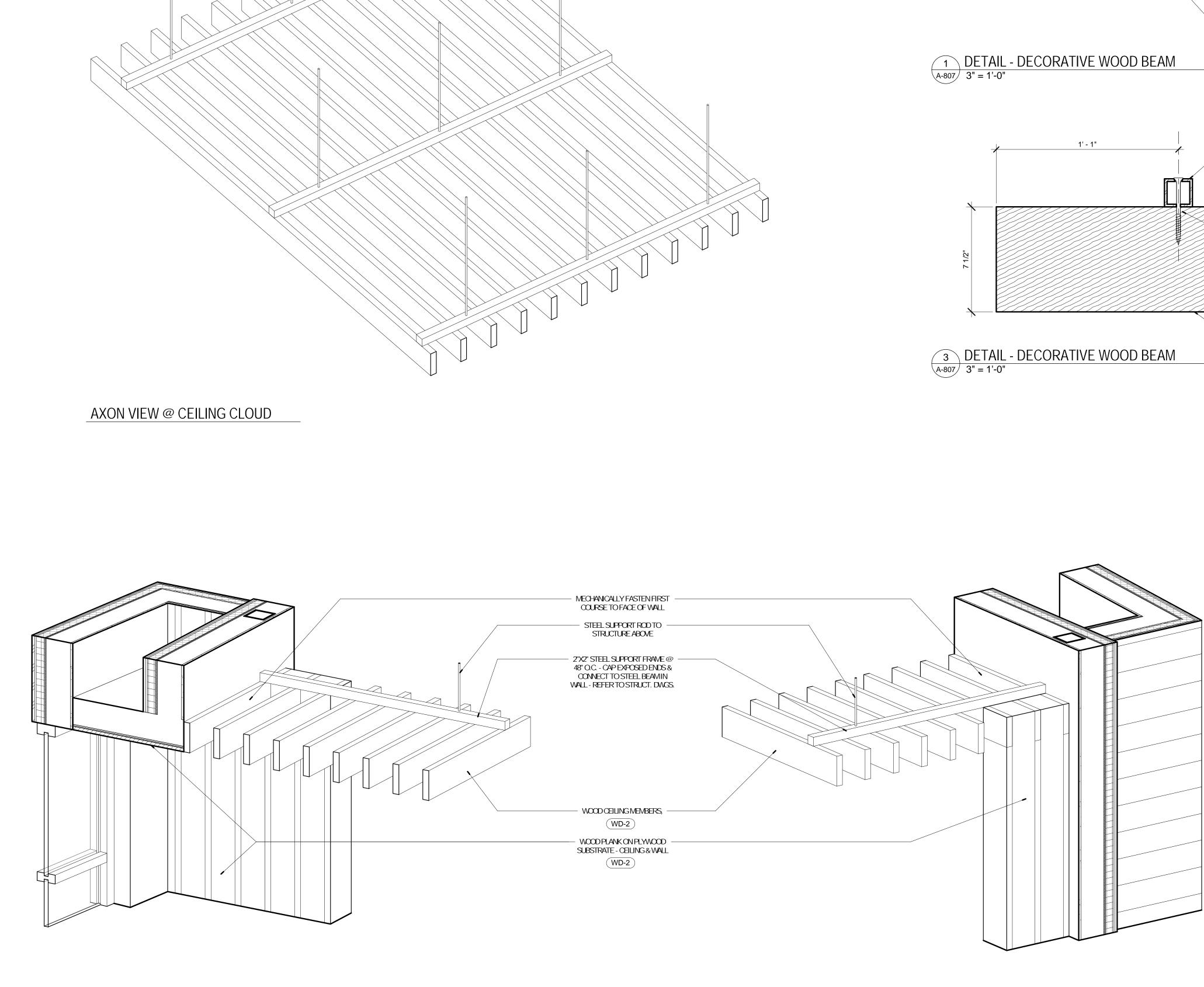


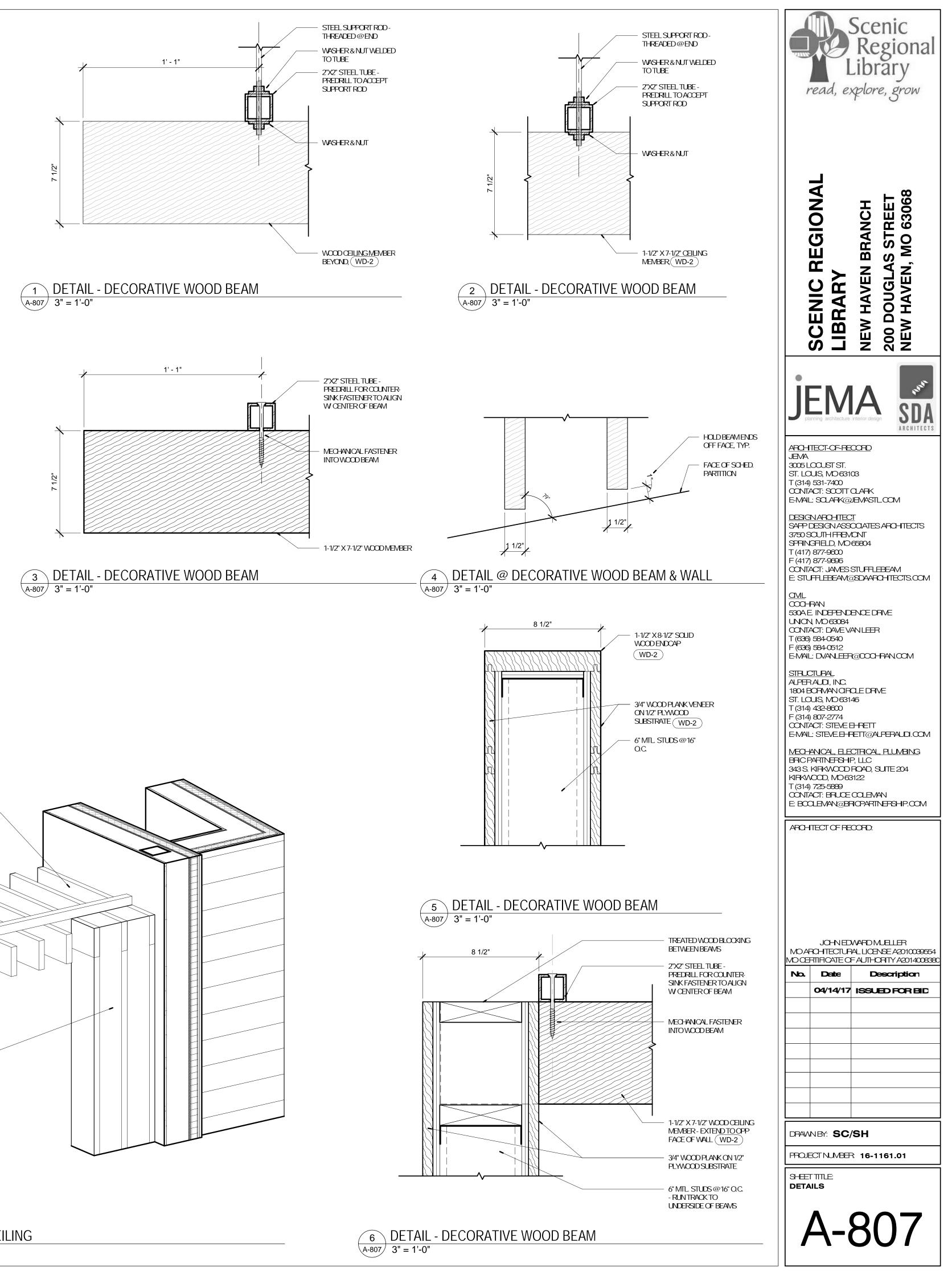


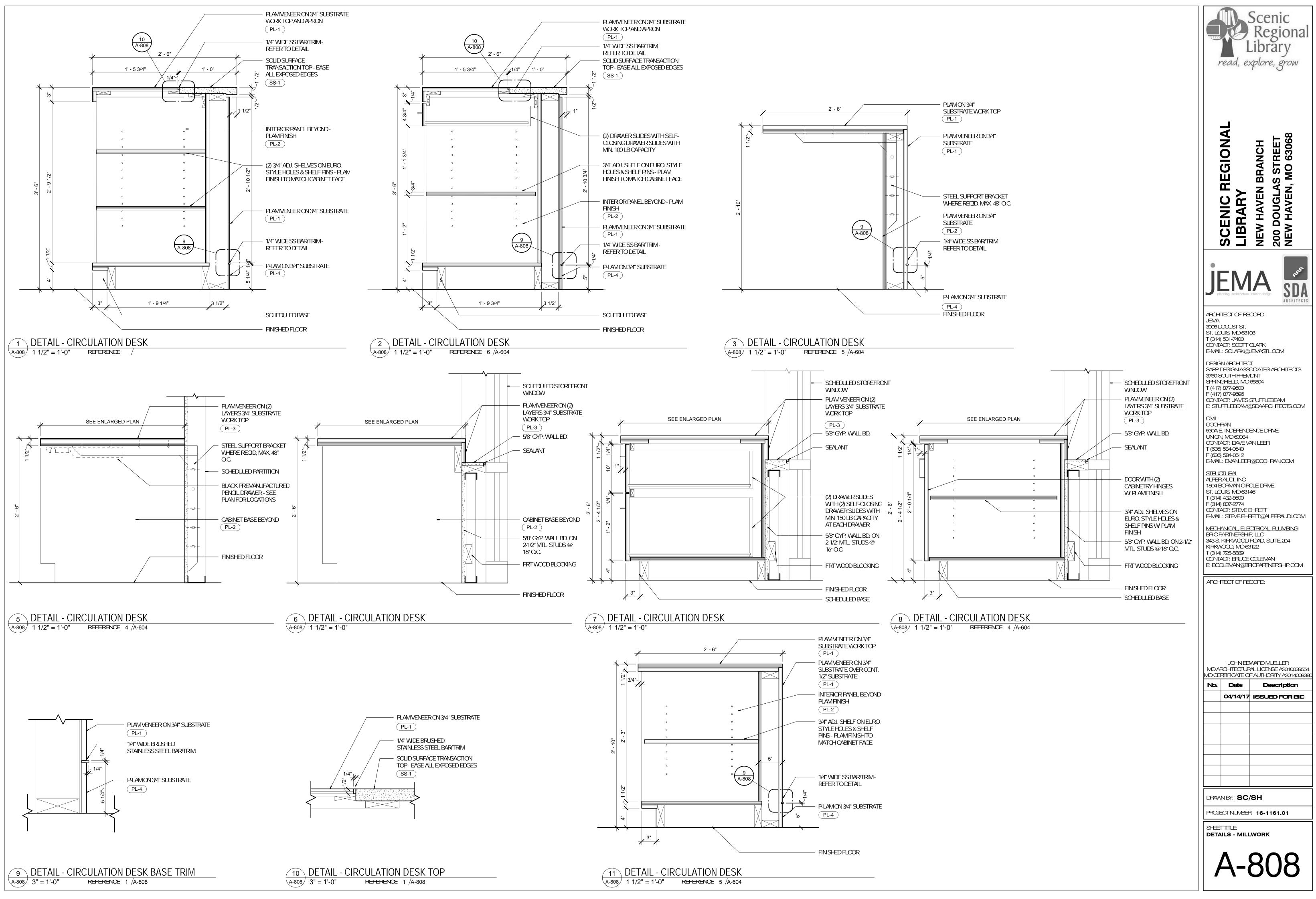


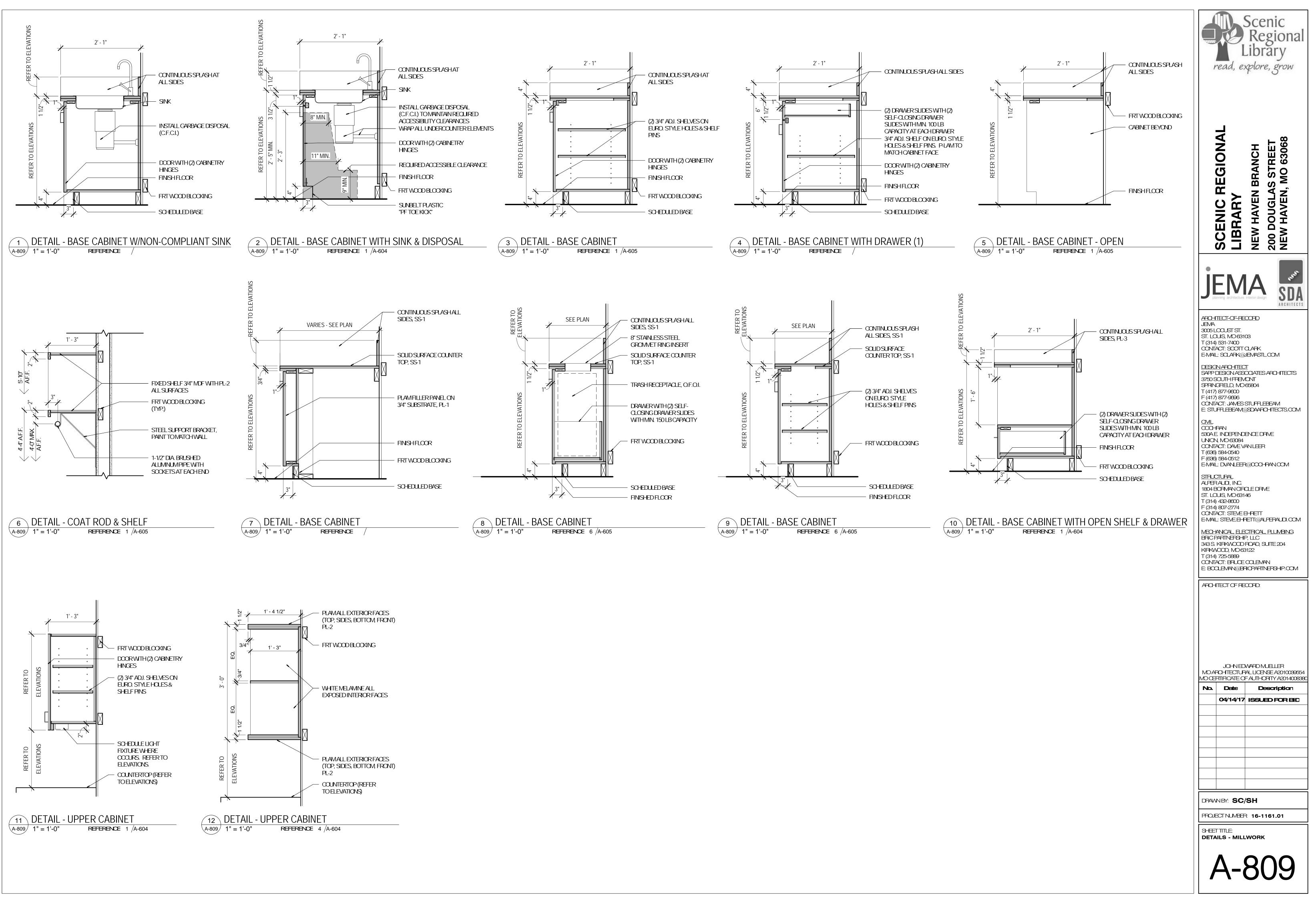


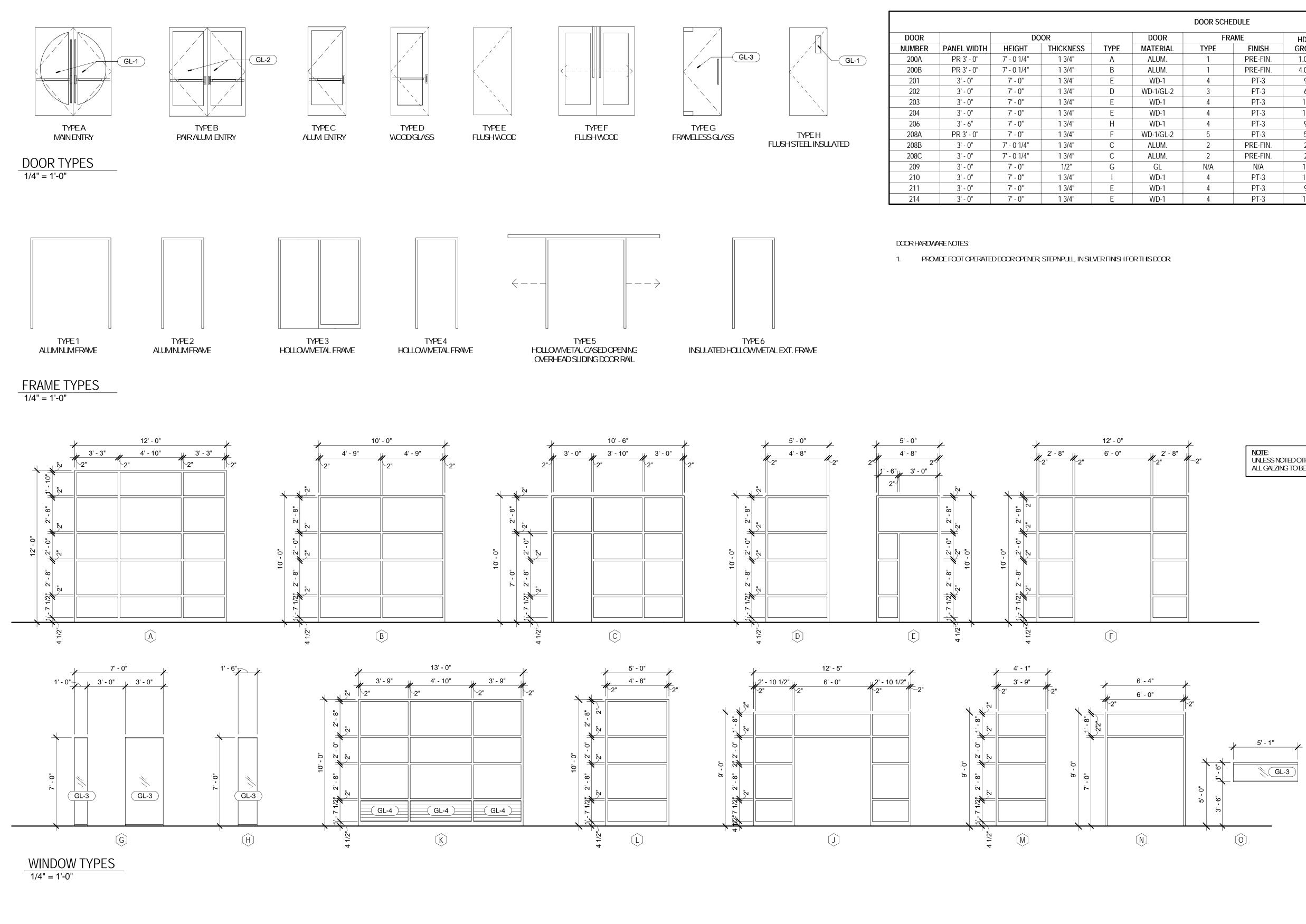
AXON VIEW @ CHILDREN'S CEILING

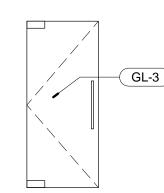


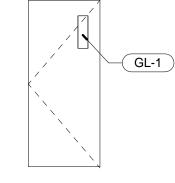




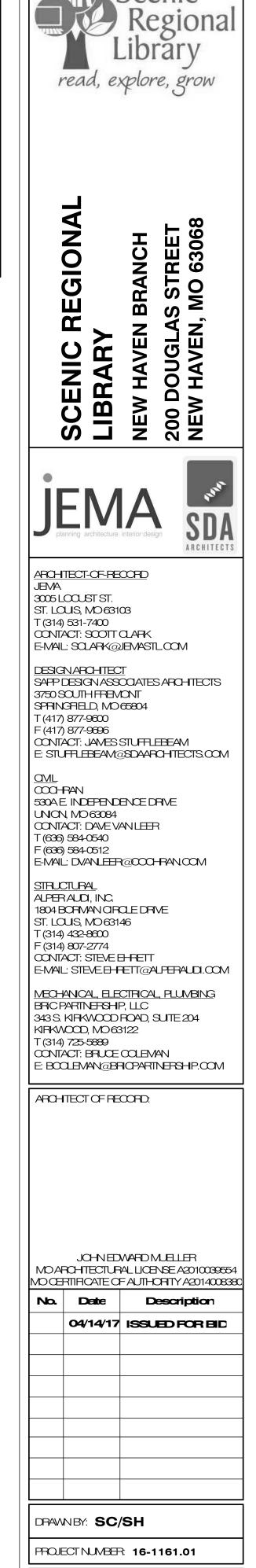






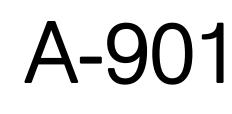


						DOOR SCH	EDULE			
DOOR		DC	OOR		DOOR	FR	AME	HDWR.		
NUMBER	PANEL WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	FINISH	GROUPS	FIRE RATING	REMARKS
200A	PR 3' - 0"	7' - 0 1/4"	1 3/4"	А	ALUM.	1	PRE-FIN.	1.0 AO		CUSTOM COLOR TO MATCH SAMPLE, SEE SPECS
200B	PR 3' - 0"	7' - 0 1/4"	1 3/4"	В	ALUM.	1	PRE-FIN.	4.0 AO		
201	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	9.0		
202	3' - 0"	7' - 0"	1 3/4"	D	WD-1/GL-2	3	PT-3	6.0		
203	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.1		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
204	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.1		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
206	3' - 6"	7' - 0"	1 3/4"	Н	WD-1	4	PT-3	9.1	45 MINUTE	
208A	PR 3' - 0"	7' - 0"	1 3/4"	F	WD-1/GL-2	5	PT-3	5.0		PAIR OF SLIDERS ON RAIL.
208B	3' - 0"	7' - 0 1/4"	1 3/4"	С	ALUM.	2	PRE-FIN.	2.0		
208C	3' - 0"	7' - 0 1/4"	1 3/4"	С	ALUM.	2	PRE-FIN.	2.0		
209	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
210	3' - 0"	7' - 0"	1 3/4"		WD-1	4	PT-3	10.0	45 MINUTE	
211	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	9.0		
214	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	11.0		

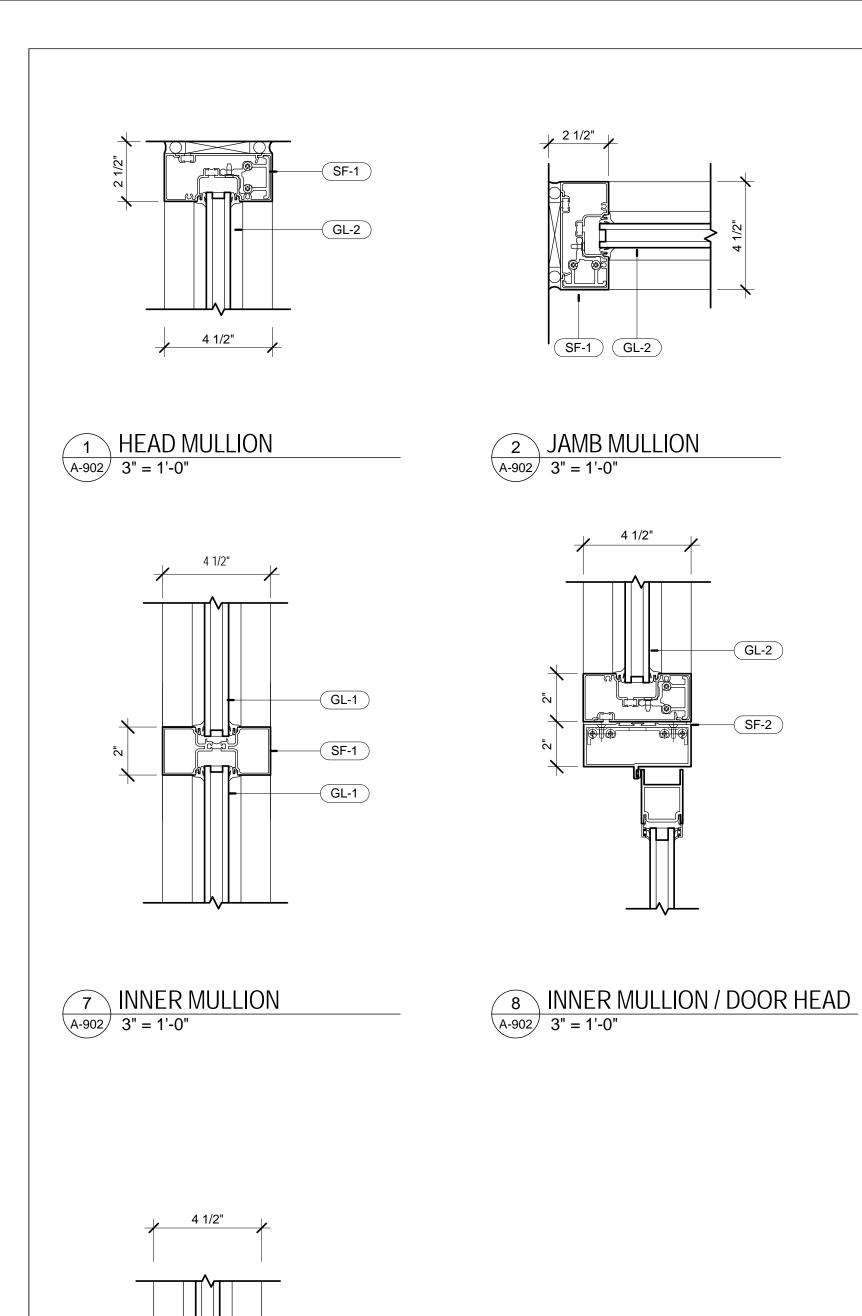


Scenic

SHEET TITLE: DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES







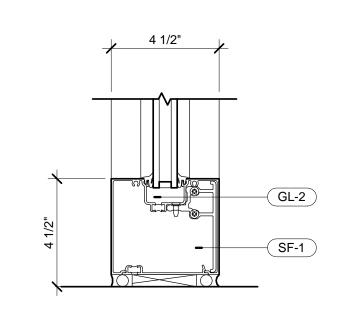
-(GL-2)

SF-1

TIT

(13) INNER MULLION

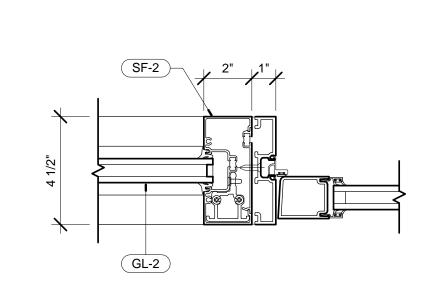
A-902 3" = 1'-0"

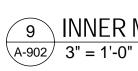




—(GL-2)

SF-2





SCHED. PARTITION

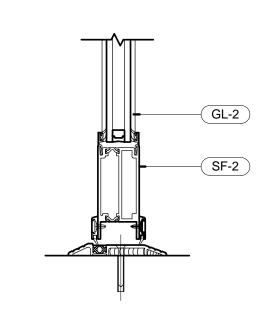
35/8" METAL STUD -'BOX BEAM @ALUM GLAZING CHANNEL DOORCLOSER MOUNTED FLUSHW CEILING-REFERTO SPECS

CENTER HUNG PIVOT AS SCHEDULED

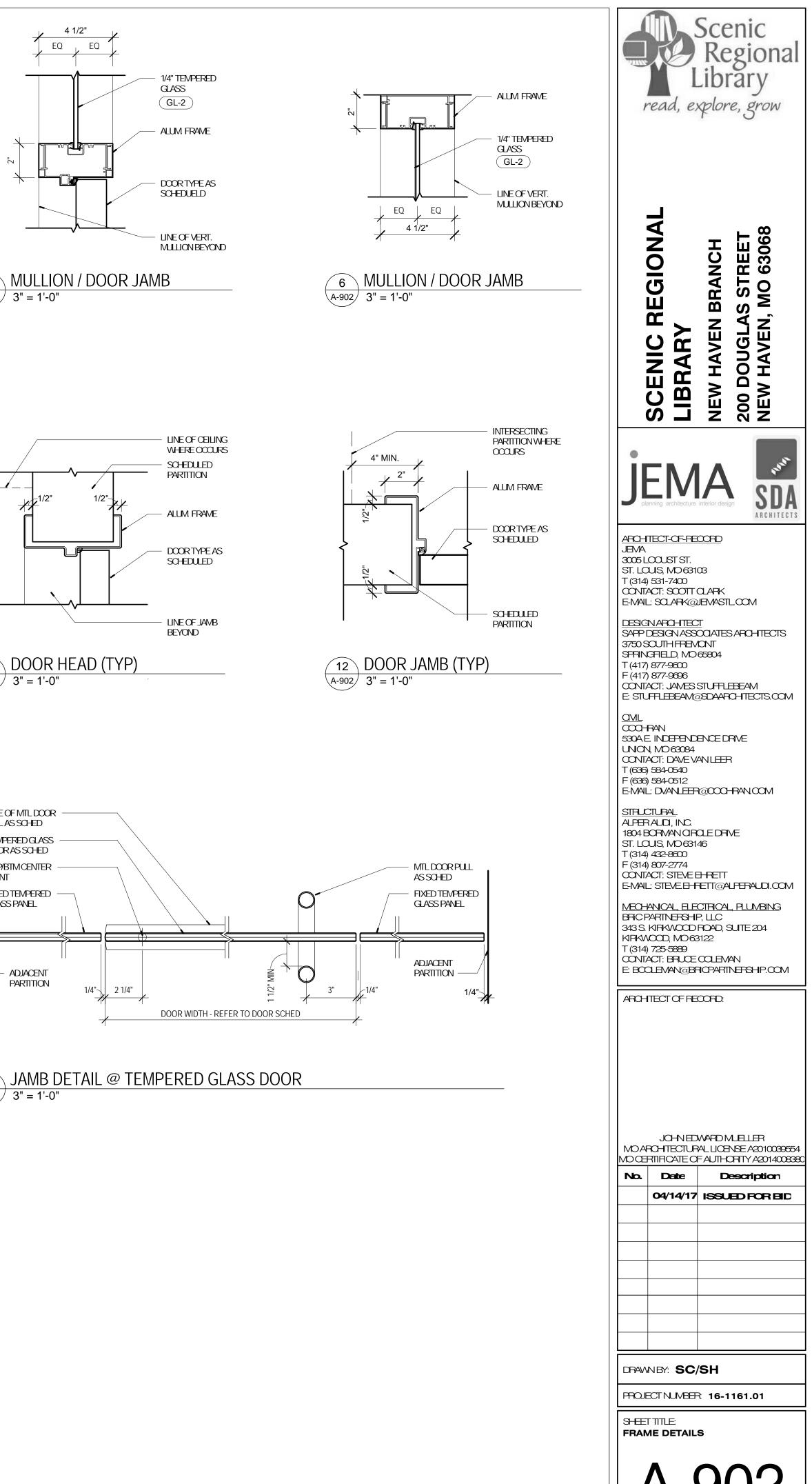
STL PIVOT PLATE AS SCHED, PROMDE MET ANCHOR BLOCK TOP RAIL AS SCHED TEMPEREDGLASS DOOR AS SCHED -

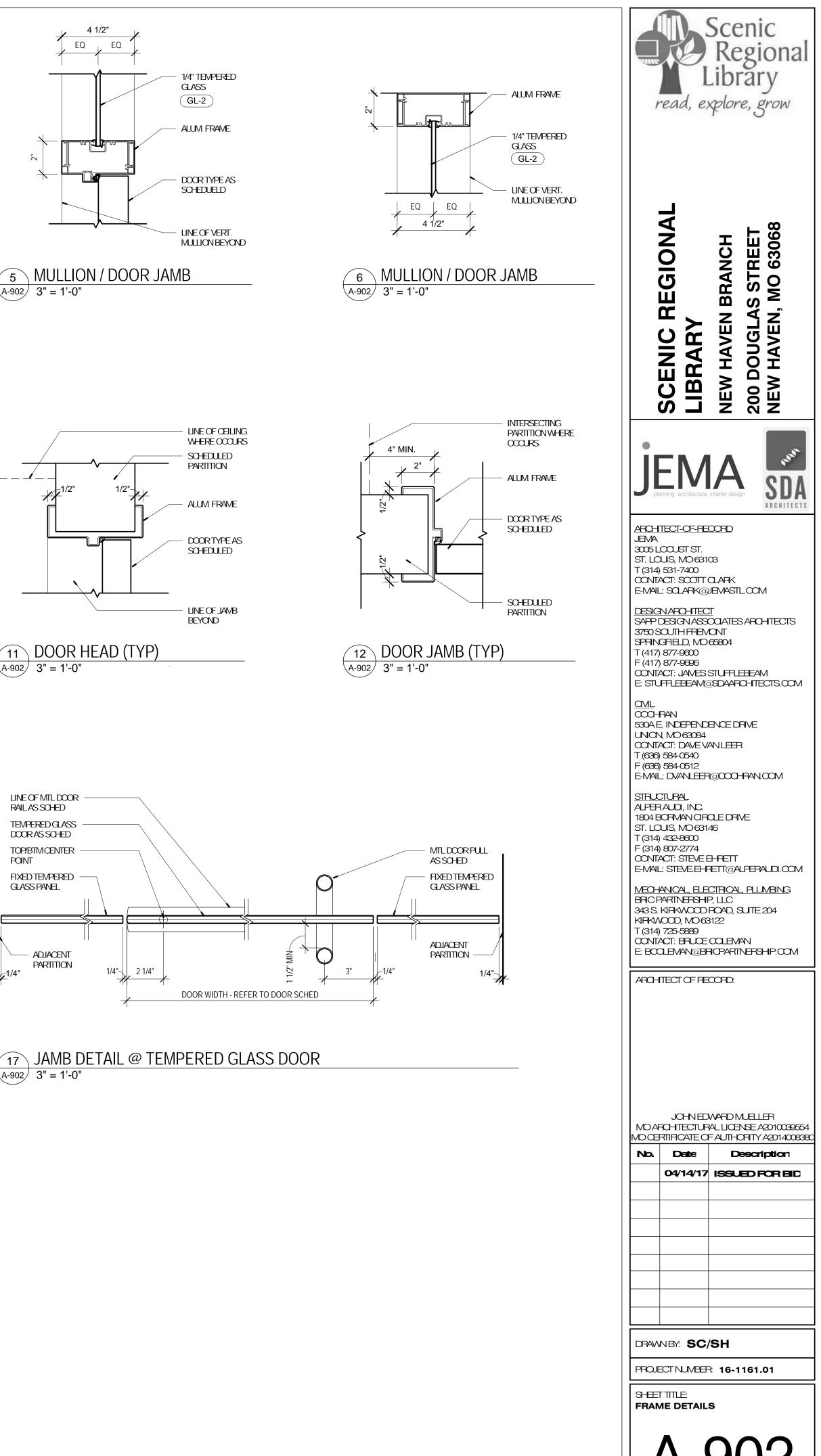
A-902 3" = 1'-0"



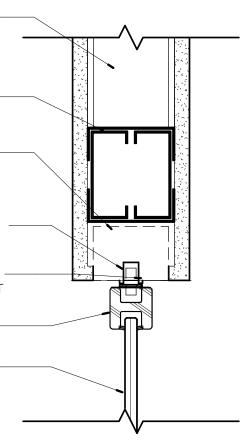




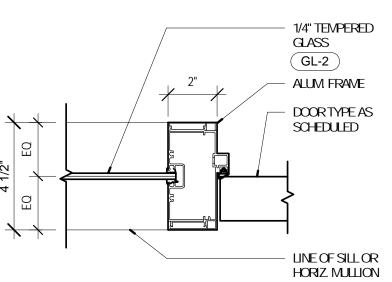




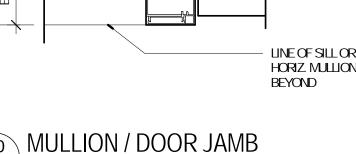
9 INNER MULLION / DOOR JAMB

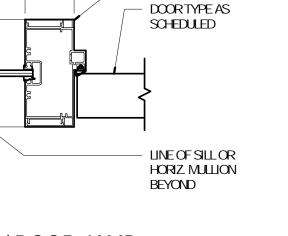


(15) DETAIL @ GLASS DOOR HEAD

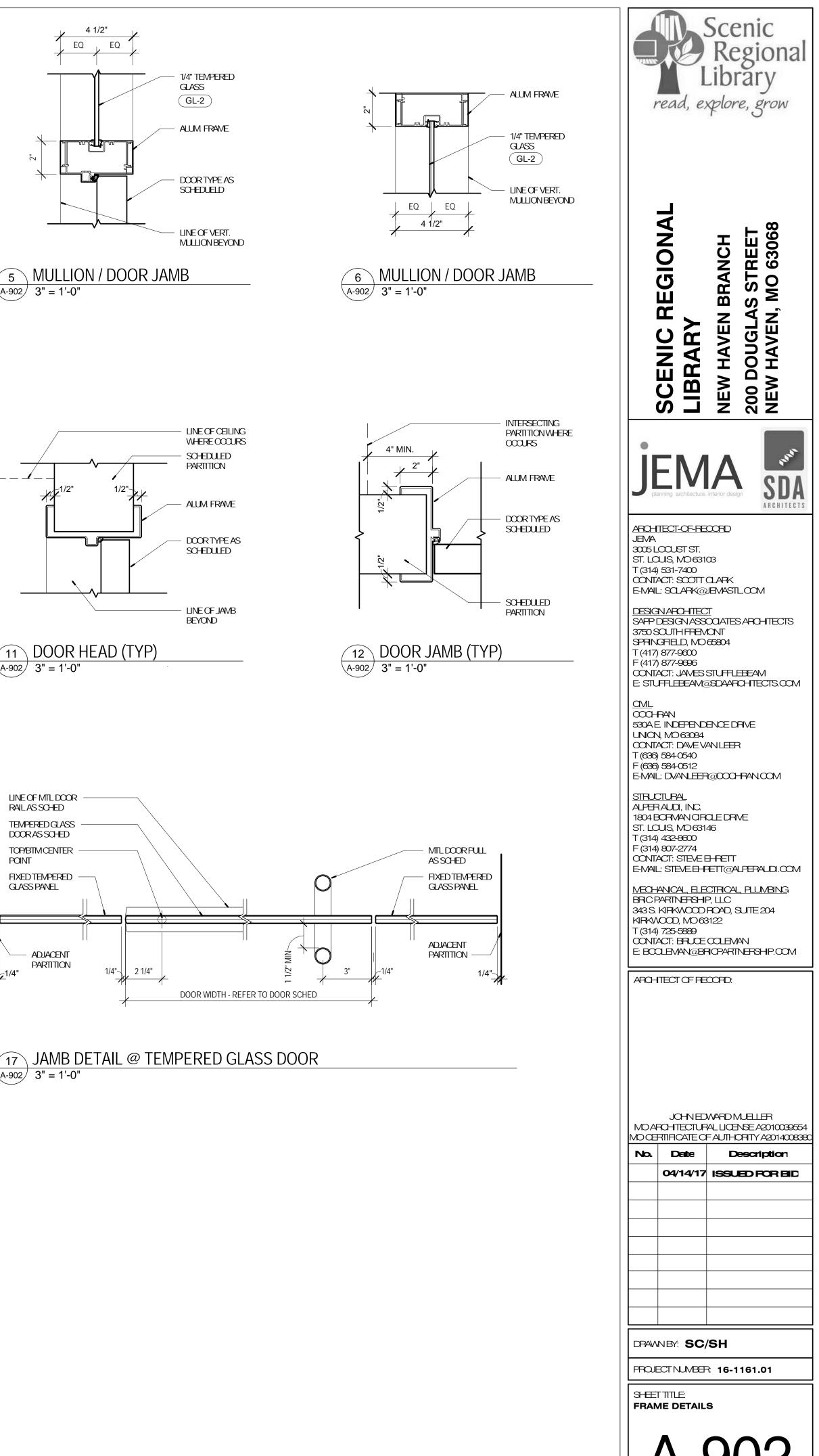


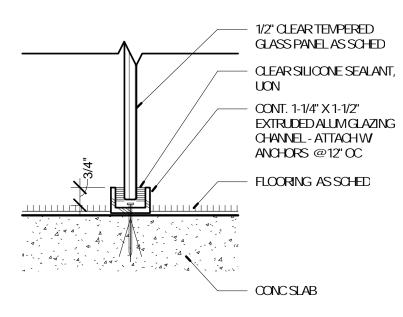
10 MULLION / DOOR JAMB A-902 3" = 1'-0"



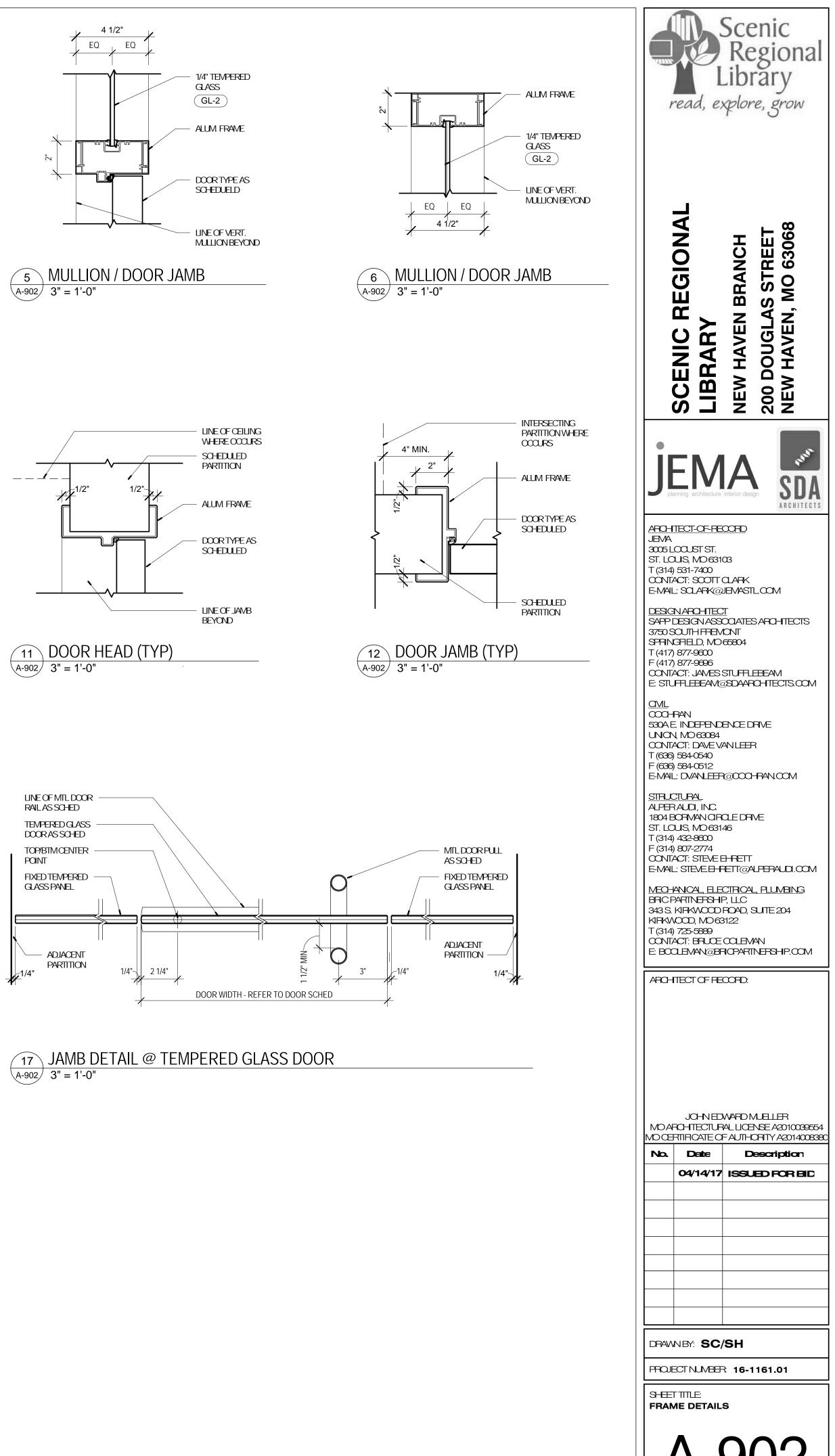


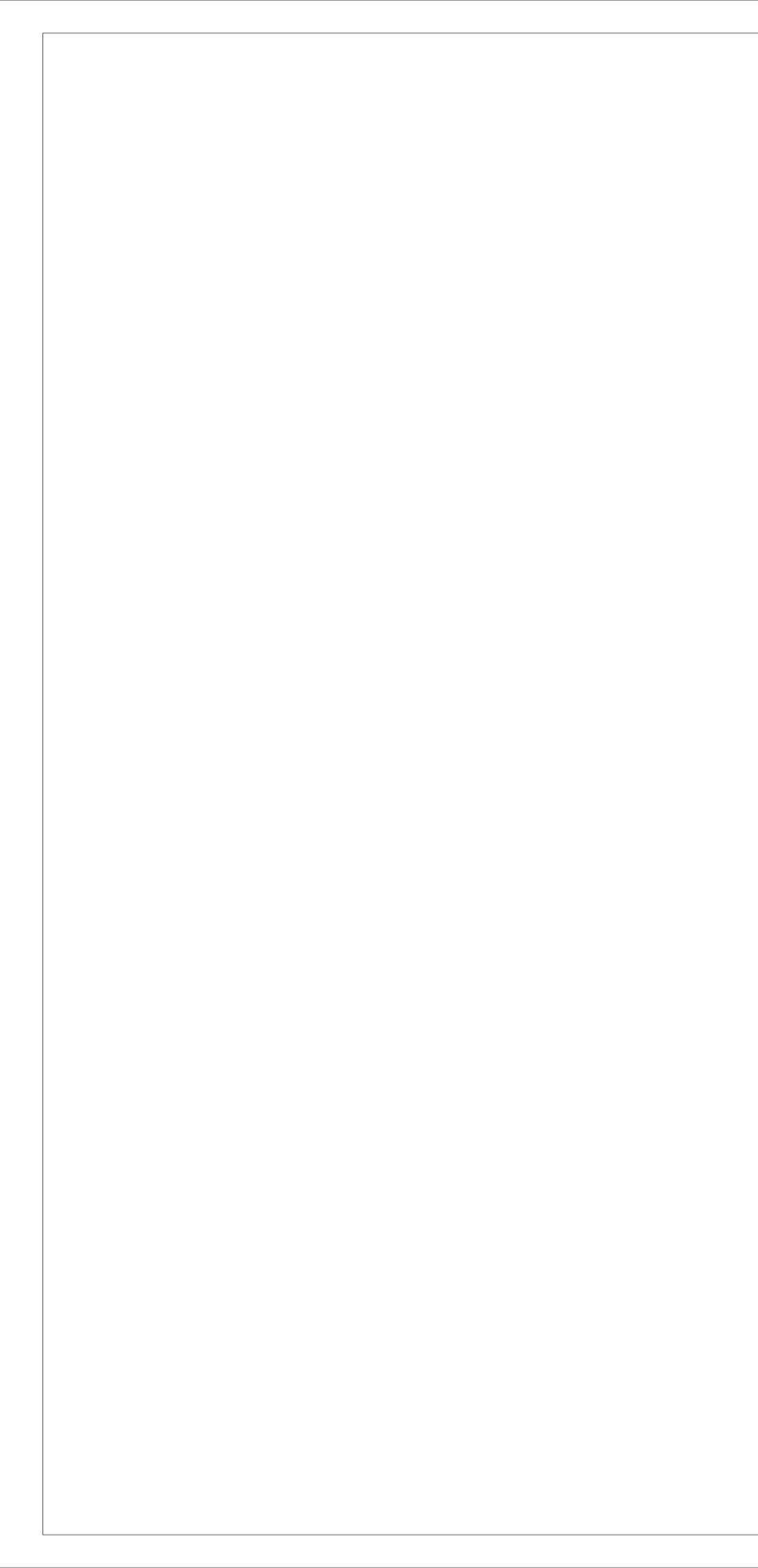


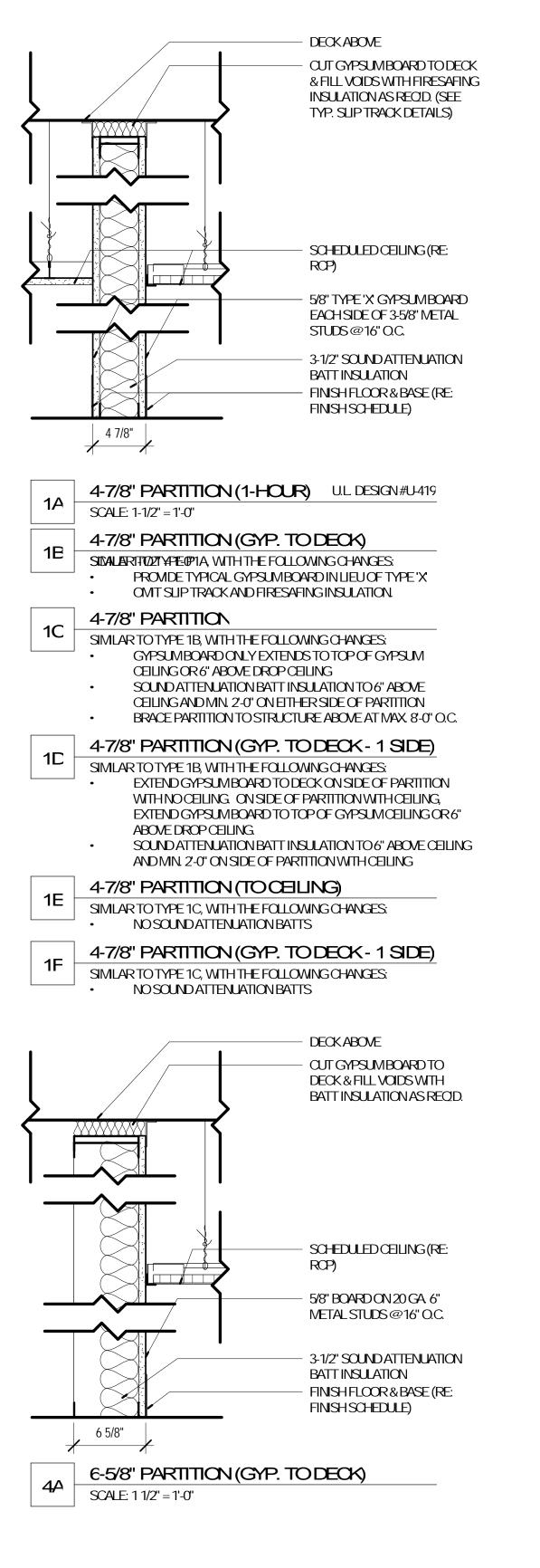


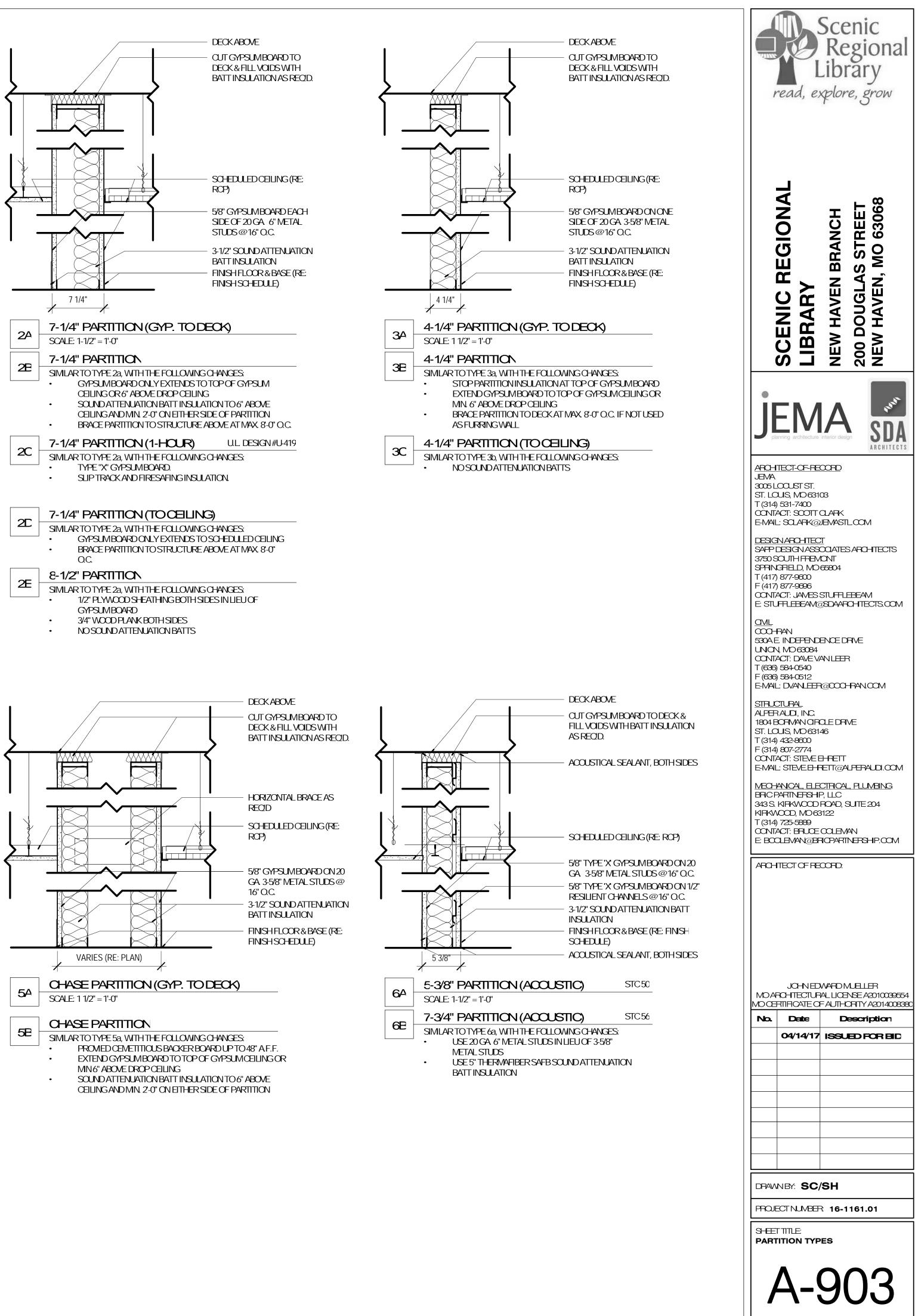


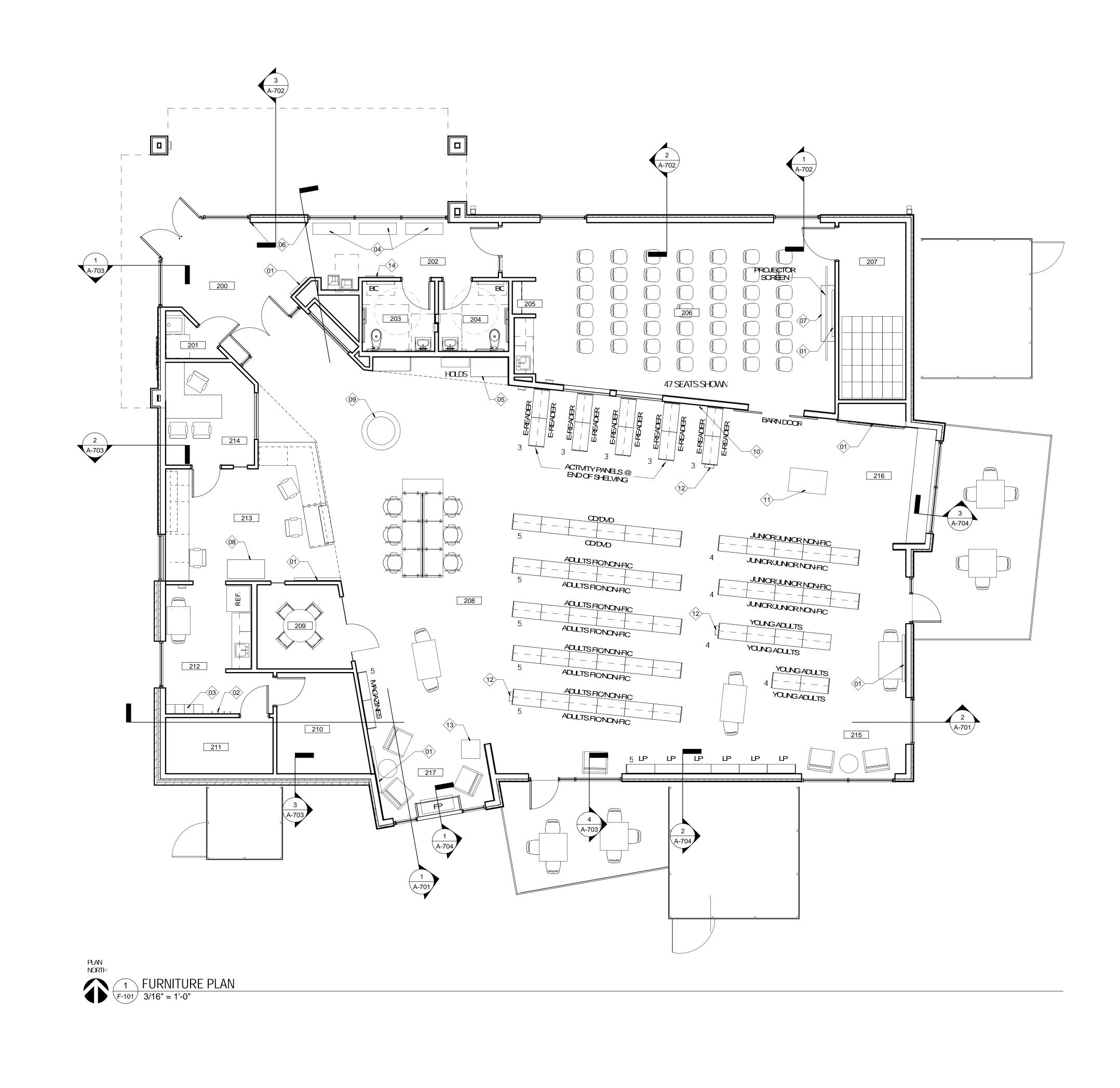
(16) DETAIL @ GLASS PANEL SILL A-902 3" = 1'-0"













	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, OFOI.
07	GAMING CABINET, OFOI.
08	CART, OFOI.
09	TIERED BOOK DISPLAY, OFOI.
10	BULLETIN BOARD, OFCI.
11	I-PAD TABLE, OFOI.
12	OPAC UNIT, OFOI.
13	NEWSPAPER DISPLAY, OFOI.
14	LOCKING BULLETING BOARD CABINET, CFCI REFER TO SPECS.

NUMBER

202

207

208

209

200 VESTIBULE

203 WOMENS 204 MENS 205 COATS 206 MEETING

CORRIDOR

STORAGE

STUDY

216 CHILDREN AREA

210 STORAGE

214 OFFICE 215 TEEN AREA

217 ADULT

211 MECH / ELEC 212 BREAK ROOM 213 WORK ROOM

CIRCULATION

GENERAL NOTES - FURNITURE PLAN

1

- ALL LIBRARY SHELMING INDICATED IS OFOI, SHOWN FOR REFERENCE. ALL FURNITURE INDICATED IS OFOI, SHOWN FOR REFERENCE. ALL APPLIANCES INDICATED ARE OFOI, SHOWN FOR REFERENCE. 3.

GENERAL NOTES

DESIGN CRITERIA:

A. CODES AND STANDARDS:

2009 INTERNATIONAL BUILDING CODE (I.B.C.)

BUILDING OCCUPANCY CATEGORY: II

B. DESIGN LOADS:

ROOF: 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 (Ct = 1.2 @ CANOPIES)

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 = 34.8 / S1 = 12.5% SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS: Sds = 35.3% / Sd1 = 19.2% 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 = 0.118 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 GATEWAY GEOTECHNICAL, LLC DATED DECEMBER 2014.

2. 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 NEWLY PLACED STRUCTURAL FILL OR NATURAL LOW PLASTIC SOIL CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 2750 PSF AND 2500 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 UNO. 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 FROST PROTECTION.

FOUNDATION / RETAINING WALLS:

- 1. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF XX PCF
- 2. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF XX PCF
- 3. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF XX PCF
- 4. SURCHARGE LOADS ARE 100 PSF AT THE SURFACE.
- 5. COEFFICIENT OF SLIDING FRICTION:

CONCRETE/SOIL = XX (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 AVE A 28-DAY COMPRESSIVE STRENGTH								
INTENDED USE	28 DAY STRENGTH f'c (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	Ν	-
ALL CONCRETE NOT OTHERWISE SPECIFIED	4	145	0.40	564	3/4	4	6	-
IOTES:		CATED	USE TH		OWING	AGGRE	GATES	

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

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.

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

			S	TANDA	RD TEN	SION LA	AP SPLI	CE, GRA	ADE 60				
			С	LASS A	and B L	AP SPL	ICE LEN	IGTH (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	I	3		4	6	3		4		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

SEE NOTE 4 IN TABLE NOTES.

		TABLE
COMPRESSION	LAP SCHEDULE	
LAP LENGT	H (INCHES)	1. TAE BARS
f'c = 3,000 P.S.I.	OR GREATER	DIAME
BAR SIZE	30 BAR DIA.	USE C
#3	12	2. ALL
#4	15	OTHE
#5	19	3. SPL
#6	22	MESH
#7	26	4. FOF
#8	29	
#9	33	5. FOF
#10	37	LESS ⁻
#11	41	EPOX
		6 EOF

BY 1.3.

LATEST EDITION OF THE A.C.I. DETAILING MANUAL.

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.

A. FOR MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE

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

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.

"TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

E NOTES:

BLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR ETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER. CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.

_ SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS RWISE NOTED.

LICE PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL SPACE PLUS 2 INCHES.

R TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.

R EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS BLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING THAN 6db, MULTIPLY LENGTHS BY 1.2 FOR ALL OTHER Y COATED REINFORCEMENT.

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

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

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 @ 9"O.C.

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 (UNO): A992 GRADE 50 (Fy=50)

ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION. PLATES (UNO): A36 (Fy=36) STRUCTURAL PIPE: A53 (Fy=35)

STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (Fy=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 DETAIL:

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 V OR [] = SHEAR IN KIPS

M = MOMENT IN FOOT KIPS T = TORSION IN FOOT KIPS

E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD **REDUCTIONS FOR CONNECTION DESIGN.**

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

6. BOLTED CONNECTIONS:

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 CONNECTIONS.

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 DRAWINGS.

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:

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.

9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

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 EMBED PLATE.

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.



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 SUB-FRAMING 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 INSUFFICIENT.

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 CONCRETE. "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)

E. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

"HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)

POST-INSTALLED ADHESIVE ANCHORS:

 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 ICC-ES 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 FREE INJECTION.

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:

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 SEQUENCES.

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 MATERIALS.

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	-
STEEL CONSTRUCTION	1704.3	1704.3
CONCRETE	1704.4	1704.4
SOILS	1704.7	1704.7
ADHESIVE ANCHORS SHALL BE INSPECTE	D PER THE REQUIREMEN	TS IN THEIR ICC-ES REPORTS

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

NOTES:

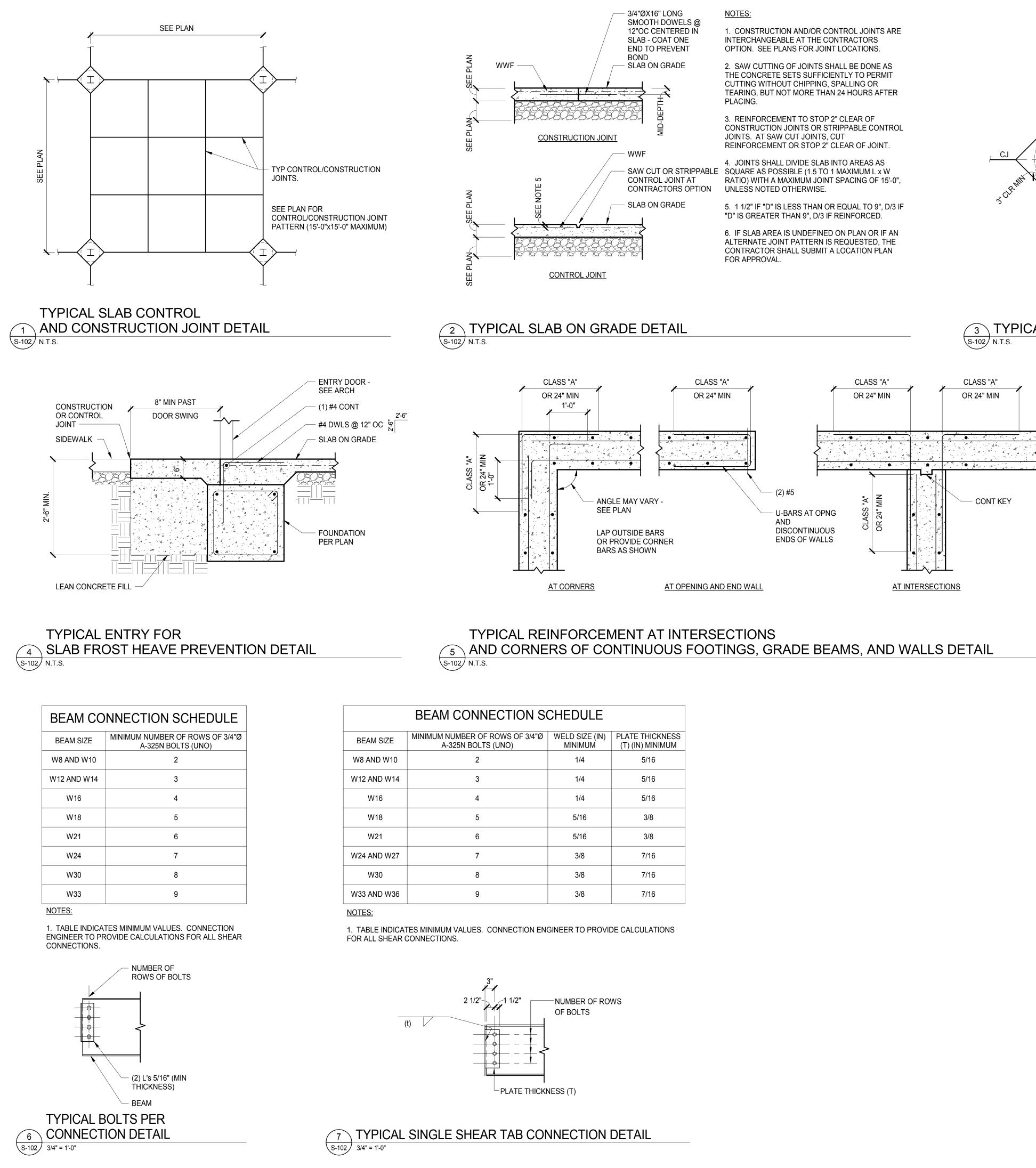
1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

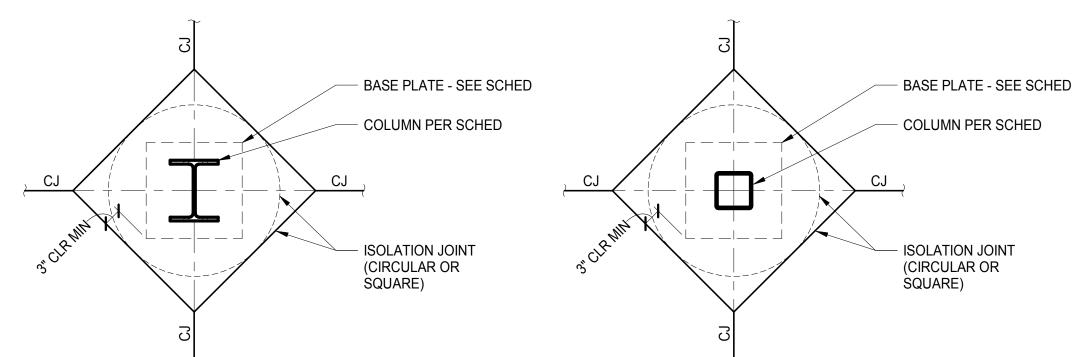
2. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.

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.



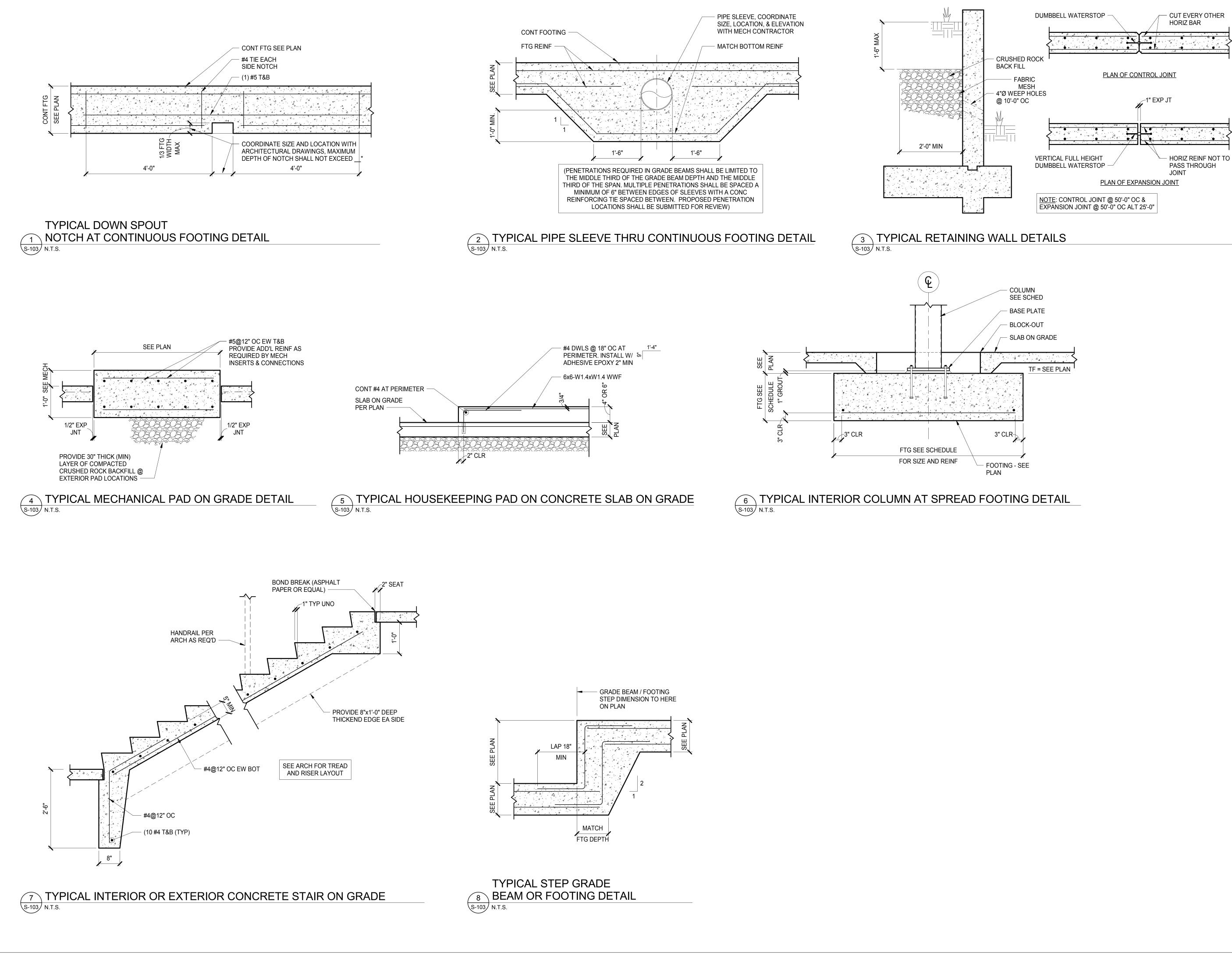


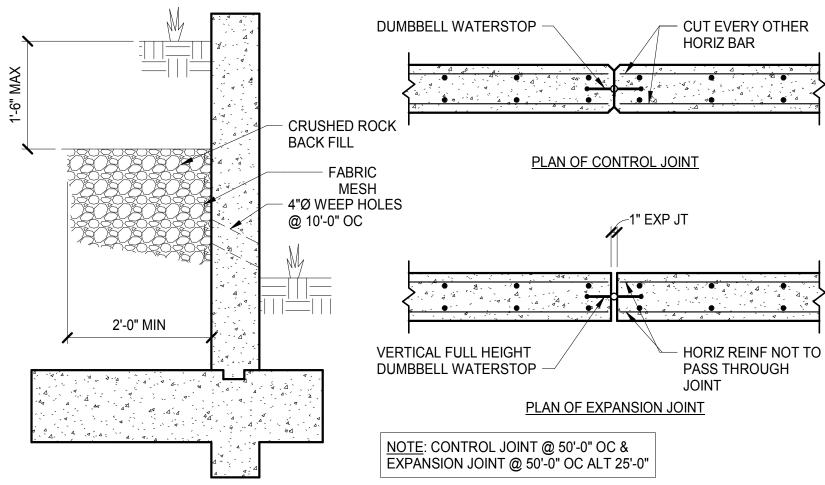


TYPICAL COLUMN ISOLATION JOINT DETAIL

ELD SIZE (IN) MINIMUM	PLATE THICKNESS (T) (IN) MINIMUM
1/4	5/16
1/4	5/16
1/4	5/16
5/16	3/8
5/16	3/8
3/8	7/16
3/8	7/16
3/8	7/16

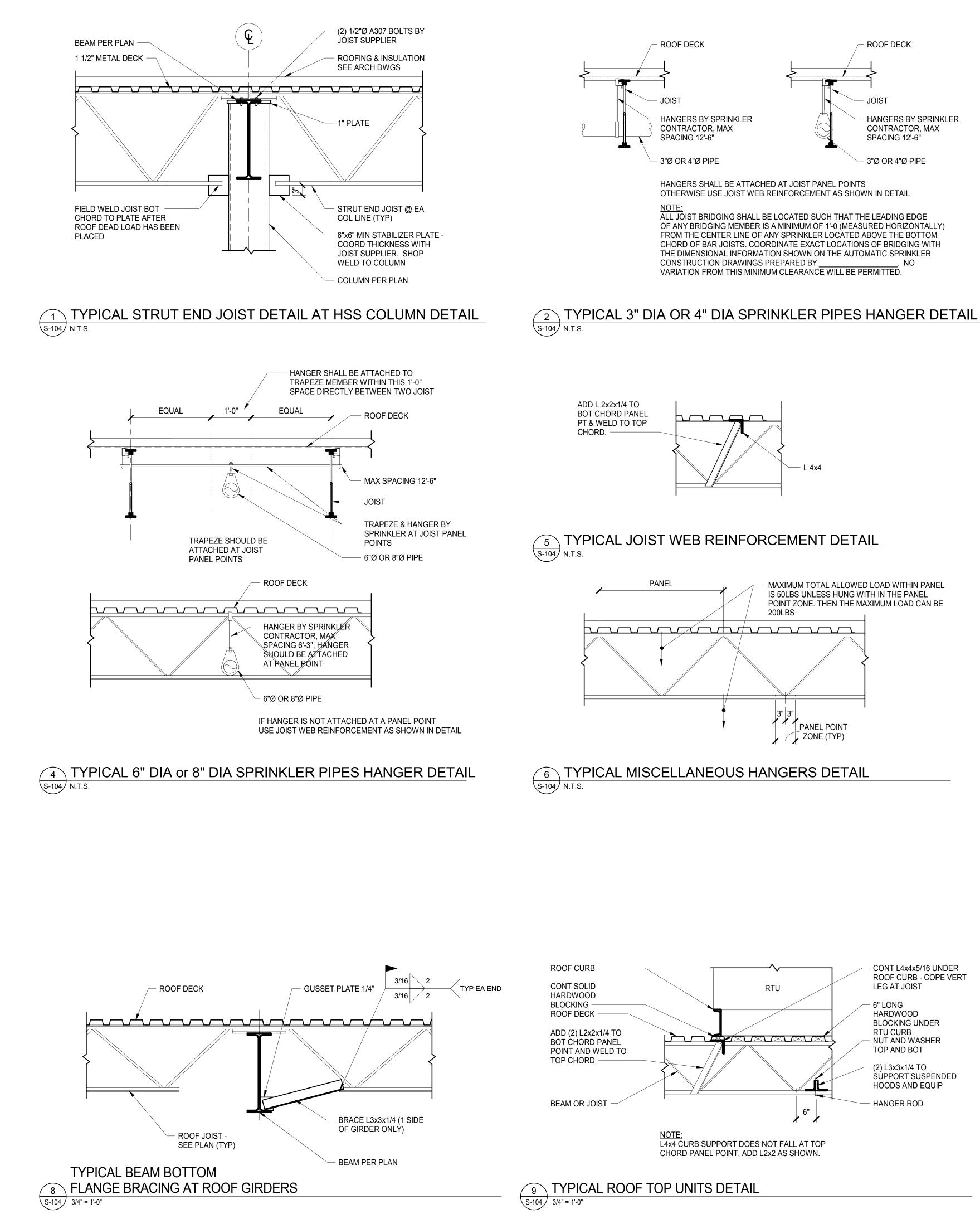
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UNION CONTA T (636)	RAN . INDEPENDEI , MO 63084 ACT: DAVE VAI 584-0540 584-0512		Ξ
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F (314) CONTA E-MAIL	807-2774 ACT: STEVE EH .: STEVE.EHRE	ETT@ALPE	
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E: BCC	ACT: BRUCE C DLEMAN@BRIG 	CPARTNEF	RSHIP.COM
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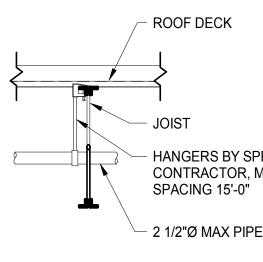


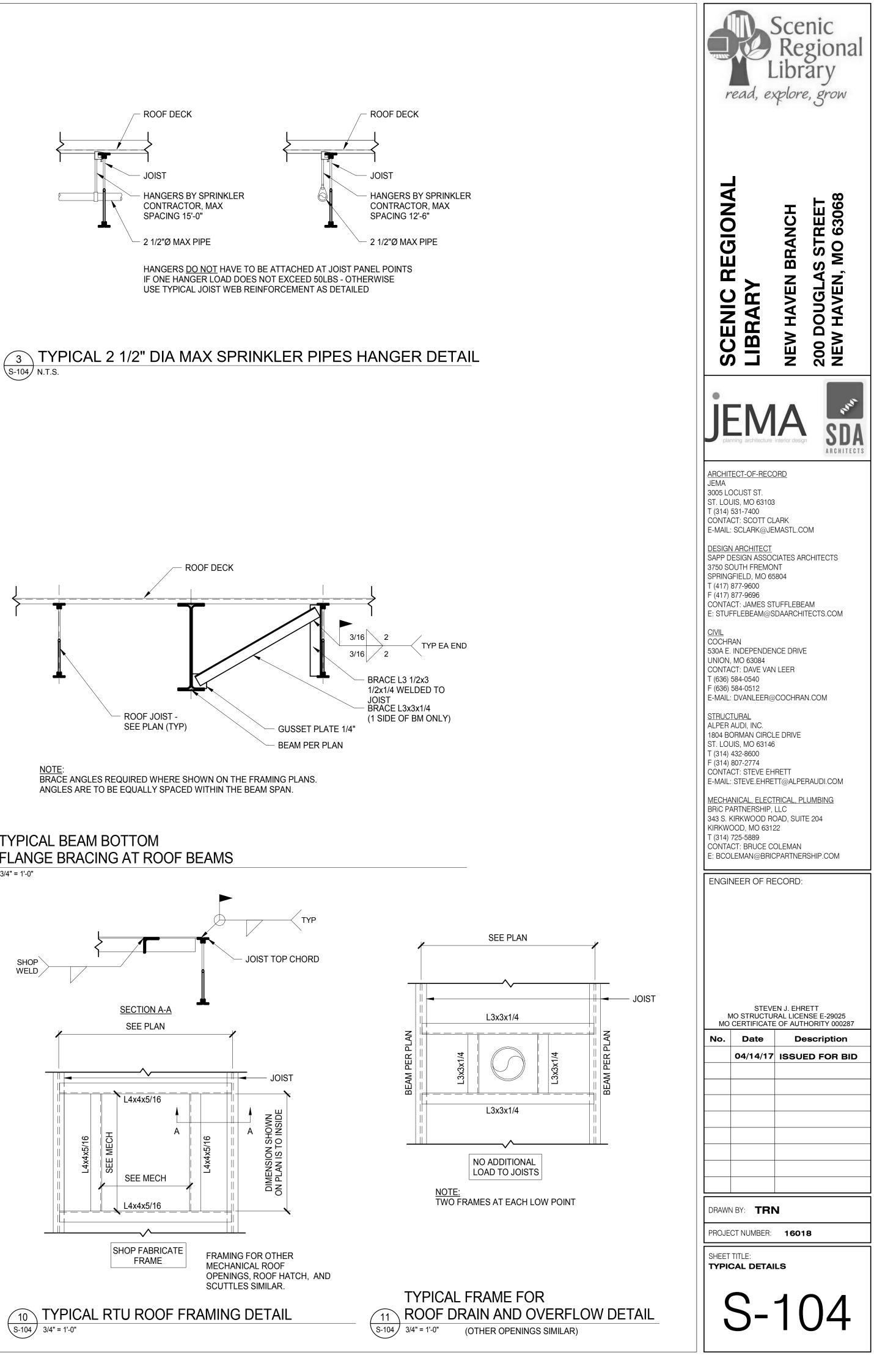


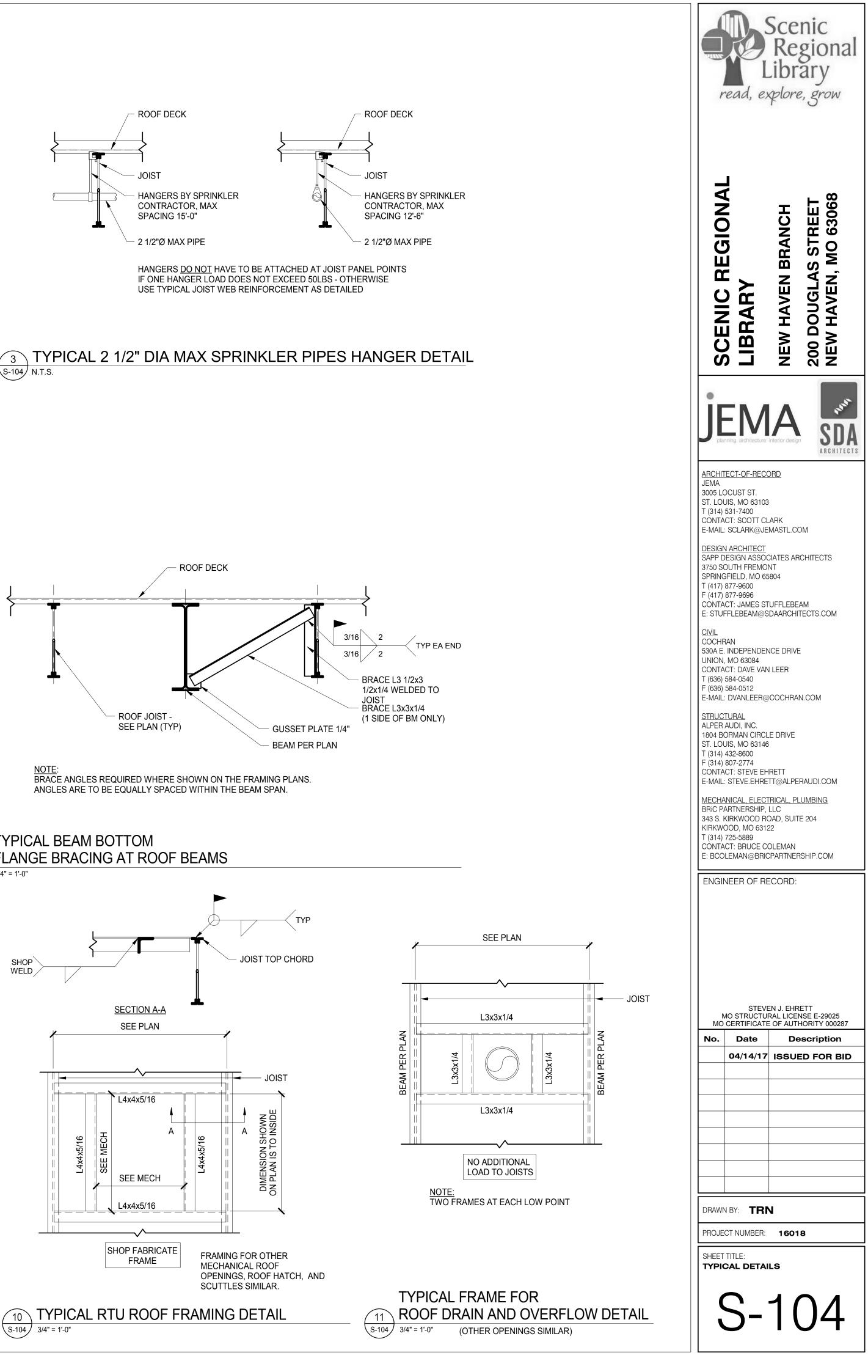


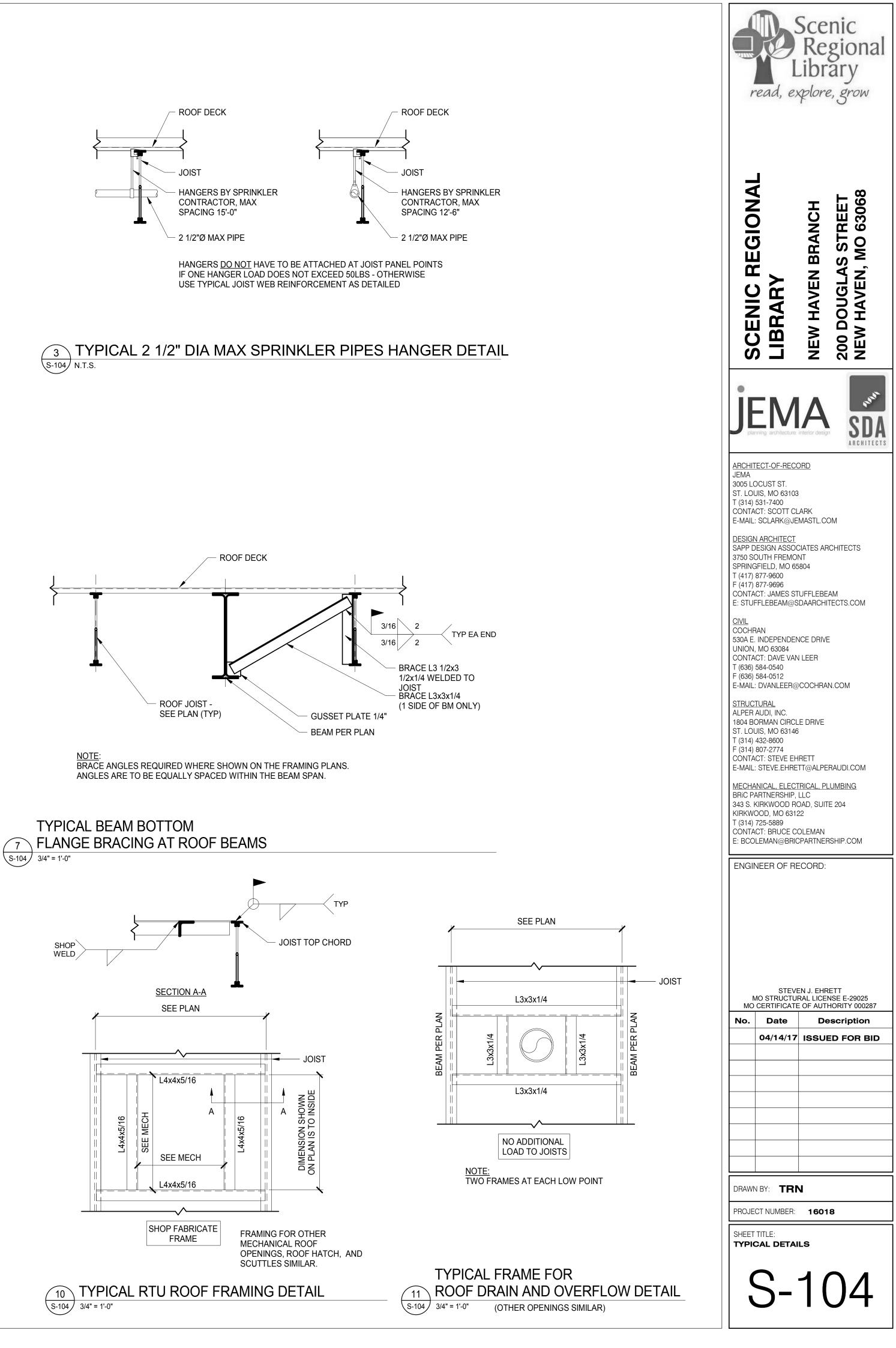
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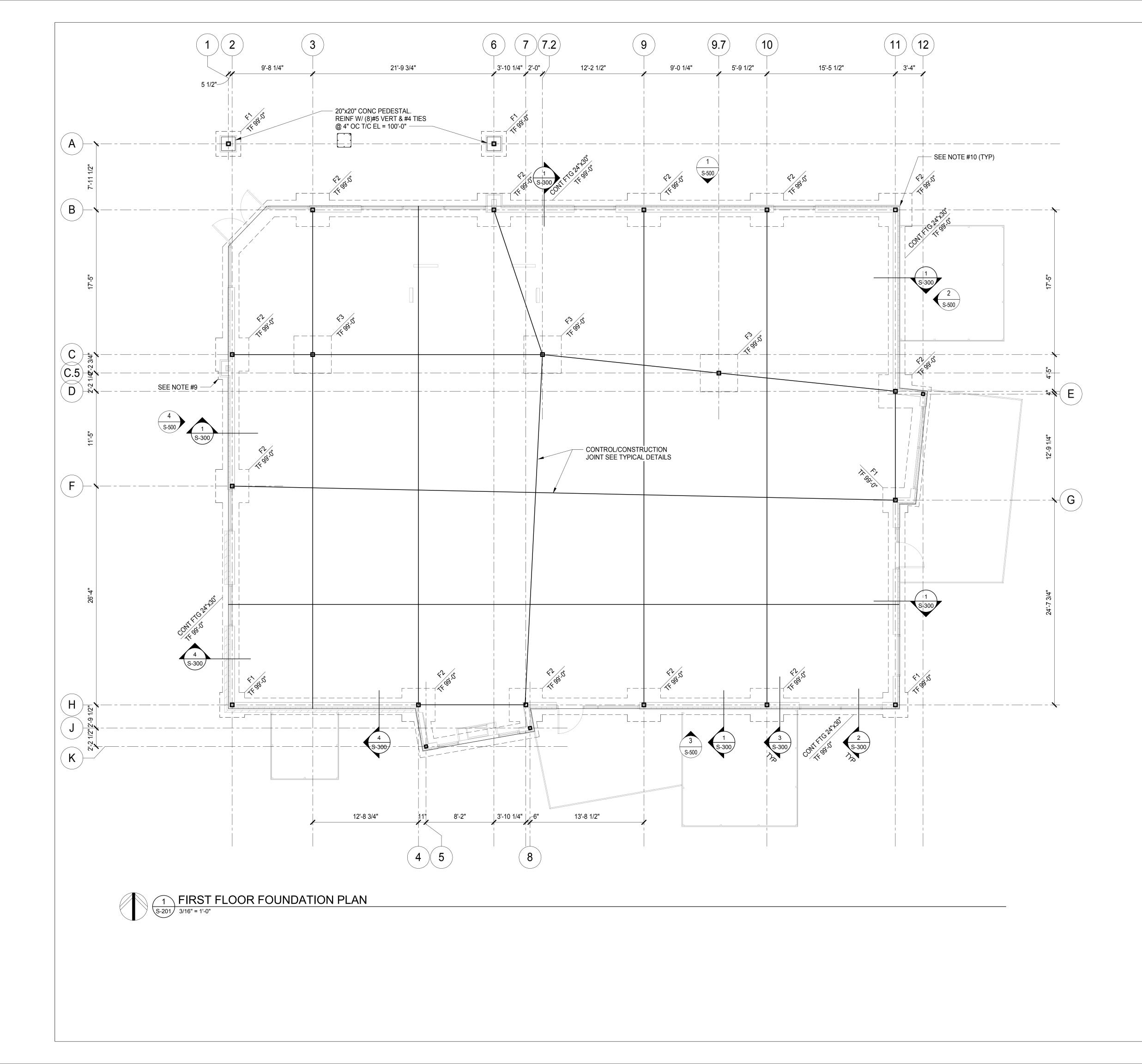












FOUNDATION NOTES:

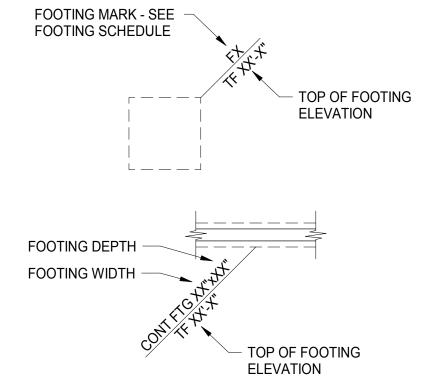
- 1. SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- 2. SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- 3. SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- 4. FINISH FLOOR ELEVATION = 100'-0" (U.S.G.S. DATUM = 658.0).

5. 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.

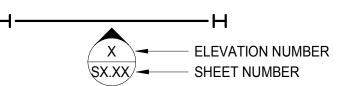
- 6. "TF" NOTED ON PLAN INDICATES TOP OF FOOTING ELEVATION.
- 7. "TC" NOTED ON PLAN INDICATES TOP OF CONCRETE ELEVATION.
- 8. "TW" NOTED ON PLAN INDICATES TOP OF WALL ELEVATION.

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

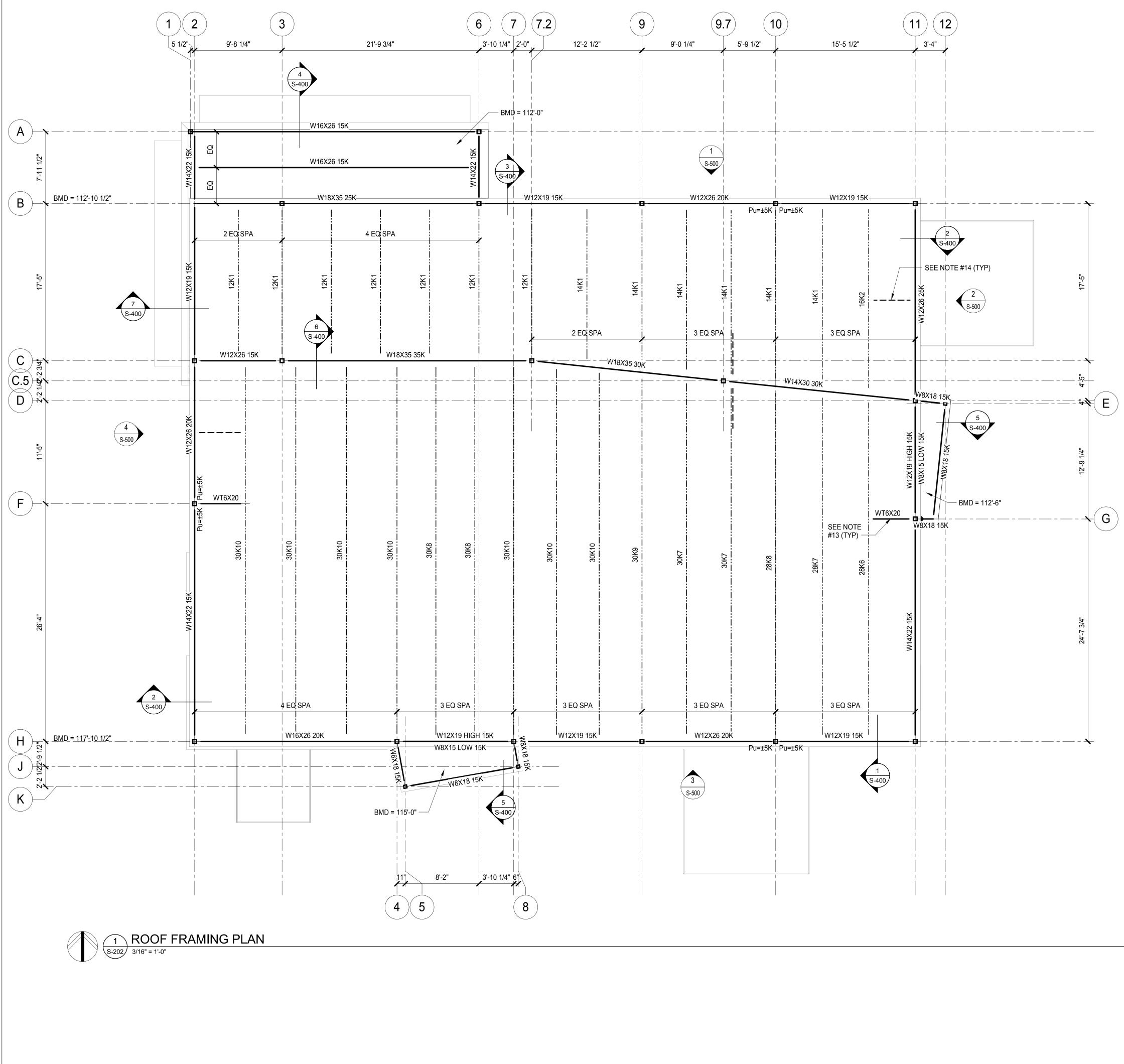


TYPICAL BRACING DESIGNATION

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	4'-6"x4'-6"x1'-3"	(5) #5 EW	





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 SPANS MORE THAN 3'-0" LONG. EDGE WELDS OF METAL DECK TO BE @ 6"OC MAXIMUM (UNO).

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 PLAN.

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. (UNO).
- 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.

NUMBER OF SHEAR BEAM CAMBER CONNECTORS - BEAM REACTION BEAM SIZE EACH END W24X55 [45] C=1 1/2" 25K H►

- MOMENT CONNECTION

TYPICAL BEAM DESIGNATION

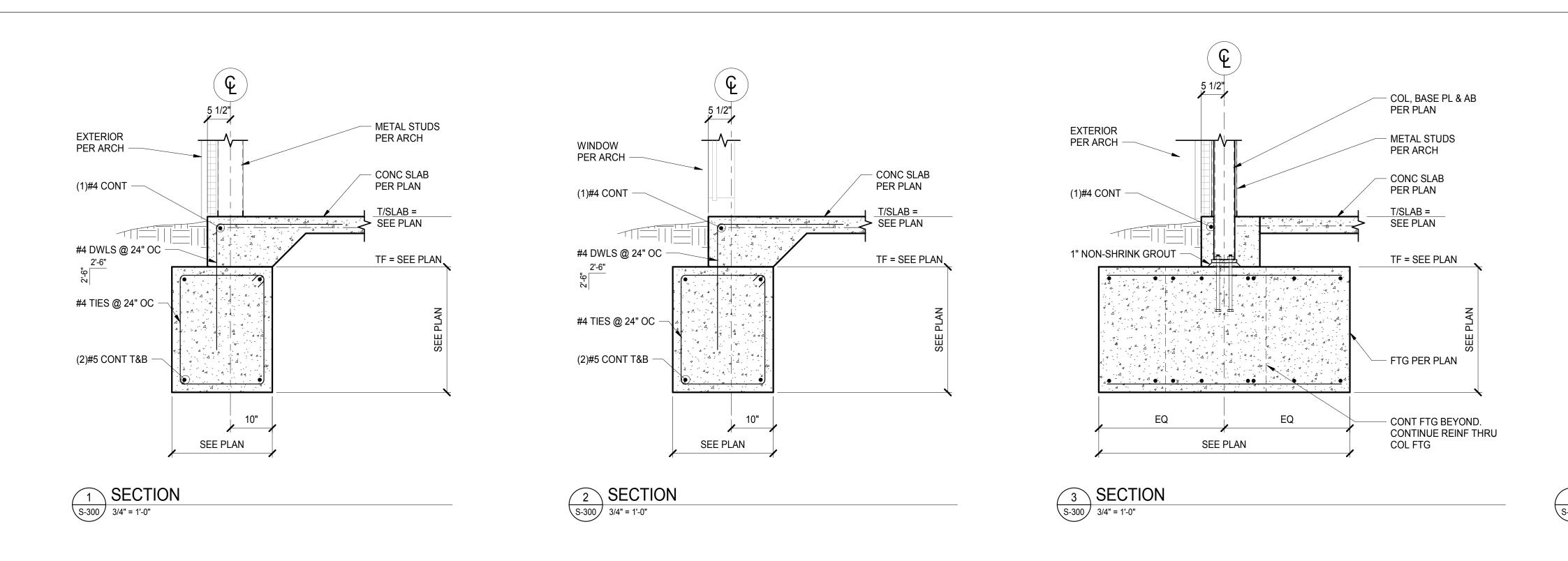
- ELEVATION NUMBER

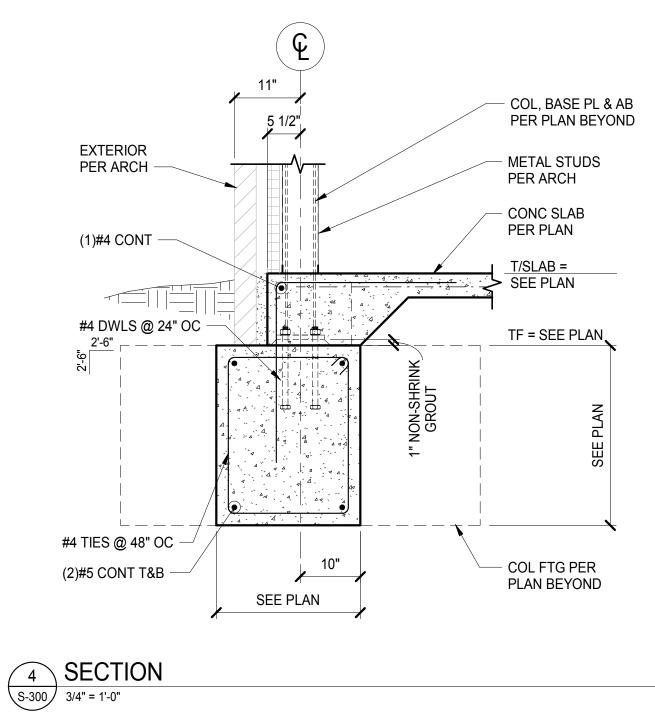
TYPICAL BRACING DESIGNATION

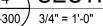
NON-UNIFORM LEAD - UNIFORM TL DESIGN REQUIRED - UNIFORM LL JOIST DEPTH 28K SP (250/150)

TYPICAL JOIST DESIGNATION

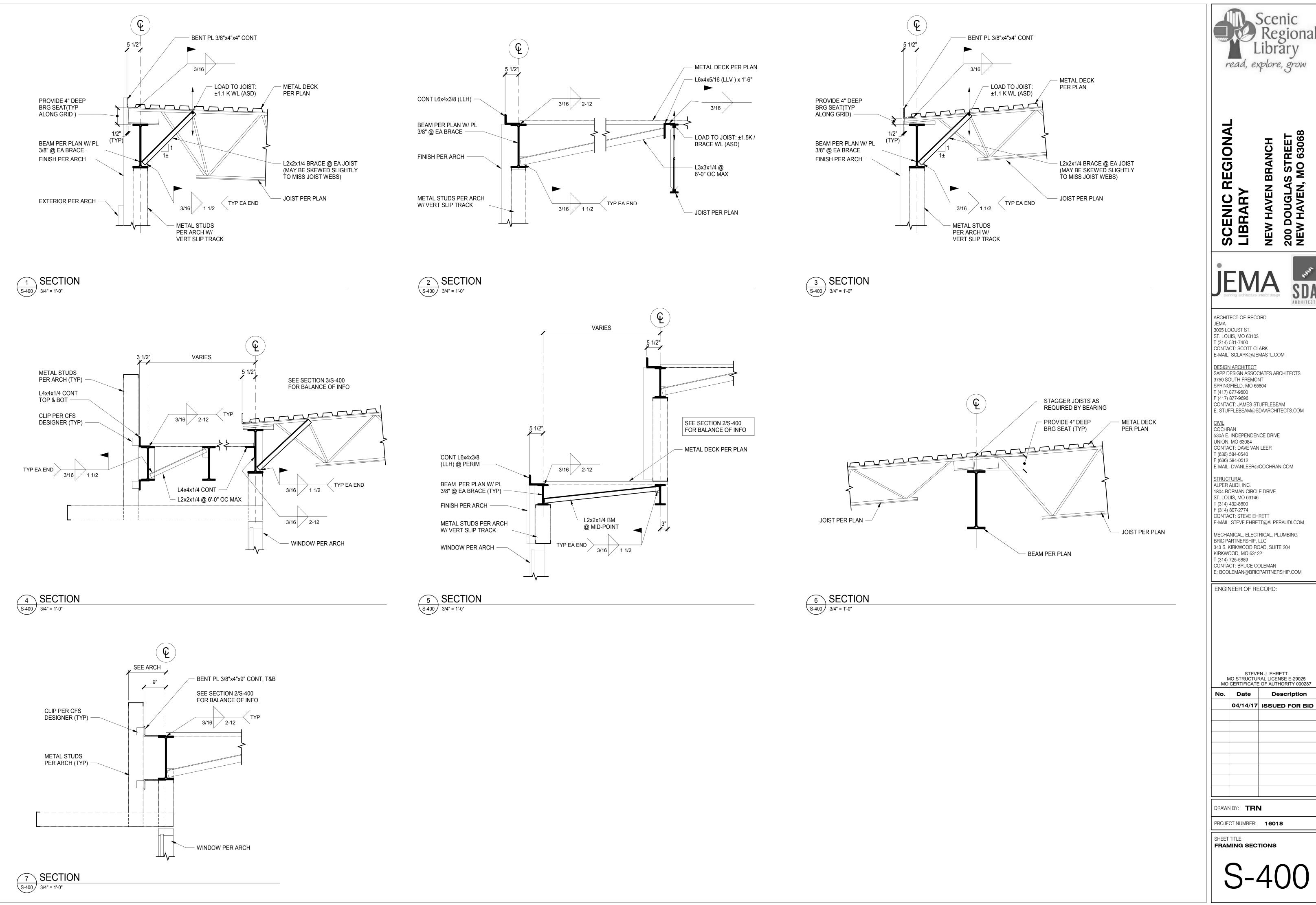












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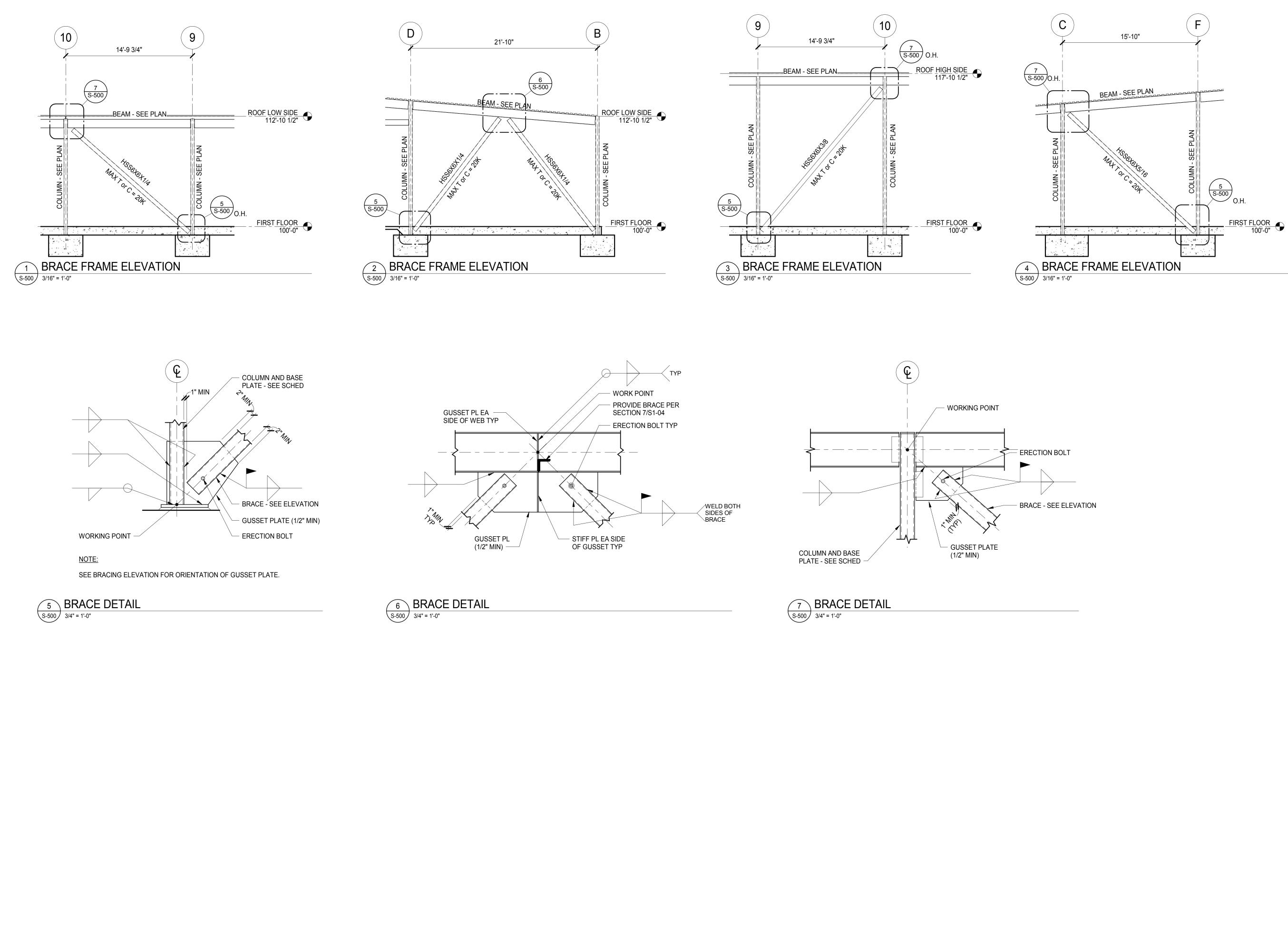
ARCHITECT

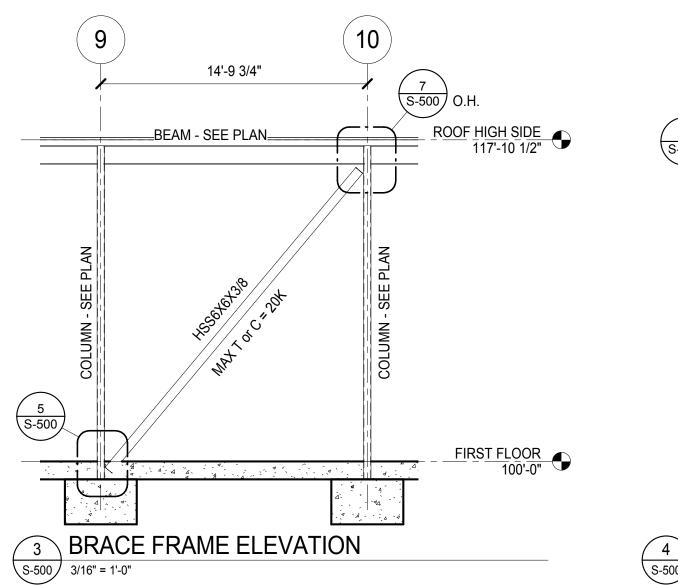
Description

BRANCH

HAVEN

NEW

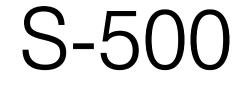




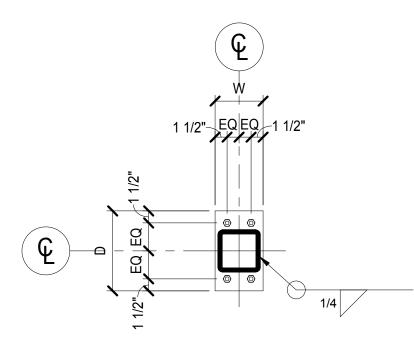


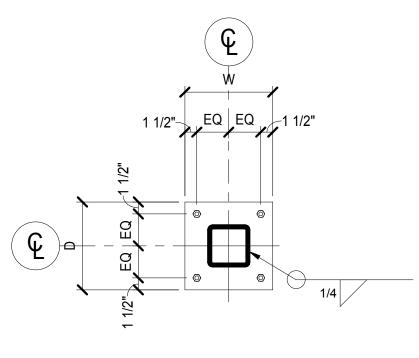
PROJECT NUMBER: 16018

SHEET TITLE: BRACE FRAME ELEVATIONS



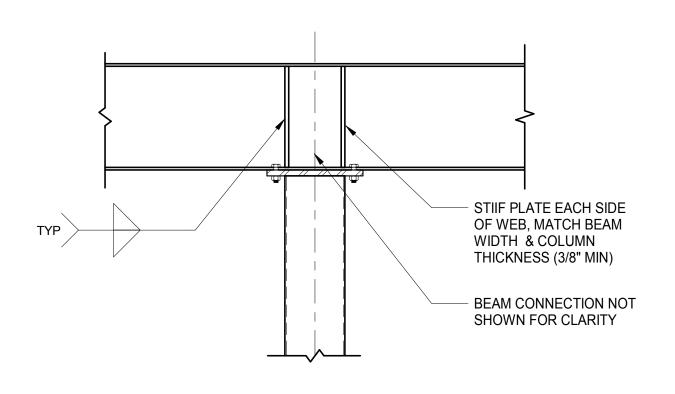
ROOF HIGH SIDE							
117'-10 1/2"							
ROOF LOW SIDE							
112'-10 1/2" FIRST FLOOR	HSS5x5x1/4	HSS5x5x1/4	HSS5x5x5/16	HSS5x5x5/16	HSS5x5x5/16	HSS5x5x5/16	HSS5x5x5/16
100'-0" BASE PLATE TYPE PLATE DIM t"xW"xD" ANCHOR BOLTS	B 3/4"x11"x11" (4) 3/4"Ø	A 3/4"x6"x11" (4) 3/4"Ø	A 3/4"x6"x11" (4) 3/4"Ø	D 3/4"x8"x20" (6) 7/8"Ø	B 3/4"x11"x11" (4) 7/8"Ø	D 3/4"x8"x20" (6) 7/8"Ø	B 3/4"x11"x (4) 7/8"¢
Column Locations	A-1, A-6	B-3	B-6	B-9	B-10	B-11	C-2



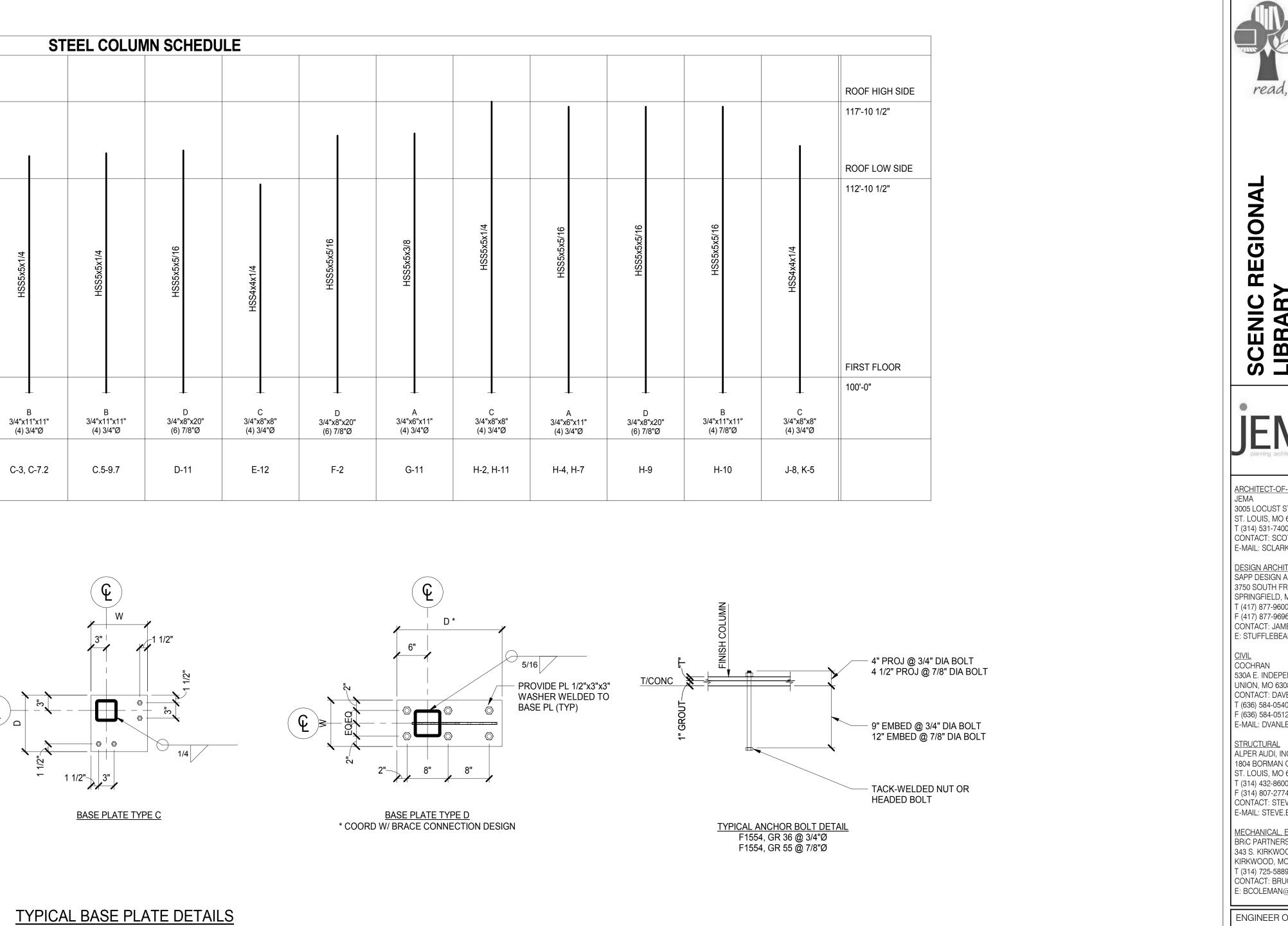


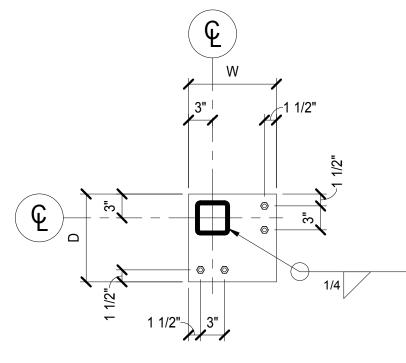
BASE PLATE TYPE A

BASE PLATE TYPE B



<u>TYPICAL CANTILEVER BEAM DETAIL</u> <u>WITH COLUMN BELOW</u>







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	anning architecture	interior design	www. SDA Architects
JEMA 3005 L(C ST. LOU T (314) CONTA E-MAIL DESIGN SAPP D 3750 S(C SPRINC T (417) F (417) CONTA E: STUF CONTA E: STUF COCHF 530A E. UNION CONTA T (636) F (636) E-MAIL STRUC ALPER 1804 B(C ST. LOU T (314) F (314) CONTA E: MAIL MECHA BRIC P. 343 S. F KIRKWO T (314) CONTA E: BCO	INDEPENDEN MO 63084 CT: DAVE VAN 584-0540 584-0512 DVANLEER@ <u>TURAL</u> AUDI, INC. DRMAN CIRCL JIS, MO 63146 432-8600 807-2774 CT: STEVE EH STEVE.EHRE NICAL, ELECT ARTNERSHIP, KIRKWOOD RO DOD, MO 6312 725-5889 CT: BRUCE CO LEMAN@BRIC MEER OF RE	ARK MASTL.CC CIATES AR NT 5804 UFFLEBE DAARCHI NCE DRIVE LEER COCHRAN COCHRAN COCHRAN COCHRAN COCHRAN COCHRAN COCHRAN COCHRAN	CHITECTS AM TECTS.COM E N.COM RAUDI.COM LUMBING E 204 RSHIP.COM
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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" OR EQUAL.
- 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 CODES.
- 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 ENGINEER.
- 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.
- 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 AIR HANDLING UNIT.
- 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 CONTR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
- 2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUC STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE
- 3. 90° DUCT ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKNES TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL.
- 4. ALL ELBOWS SHALL BE SUPPLIED WITH TURNING VANES, WHET SHOWN ON DOCUMENTS OR NOT.
- 5. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRIC/ WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF TH DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING.
- 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 A RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT THO LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVIC THESE CASES.)
- 8. PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THA EXCEED 12" IN HEIGHT.
- 9. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
- 10. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PL ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTOR 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 C OR LIGHT FIXTURES.
- 12. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIM LENGTH NECESSARY TO MAKE THE CONNECTION.
- 13. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK O PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFEI OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
- 14. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWI THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTION THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, EX FANS, SUPPLY FANS, AND DUST COLLECTOR.
- 15. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRAN CONNECTIONS TO THE MAIN DUCT.
- 16. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPE 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. F DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE D/ ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WOR "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SH NOT BE LESS THAN 1/2 INCH IN HEIGHT.
- 18. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHA CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (25 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 A WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEE METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER
- 20. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM. MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.
- 21. ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME SIZE THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
- 22. DIRECTIONAL ARROWS ON AIR DEVICES INDICATE THROWS FOR DEVICE. VERIFY PROPER ADJUSTMENT OF THROW DEFLECTION VANES OF ALL AIR DEVICES PRIOR TO BEGINNING BALANCING. NO ARROWS SHOW, THROW SHALL BE 4-WAY.
- 23. ALL BATHROOM EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED.
- 24. EXPOSED GALVANIZED DUCTWORK SHALL BE PAINTABLE. GENI CONTRACTOR TO PAINT ALL EXPOSED DUCTWORK. FINAL COLO BE APPROVED BY THE ARCHITECT.

		HEATING	AND VENTI	_ATION SYN	IBOLS
\sim	SA	SOUND ATTENUATOR		cs	CONDENSING WATER SUPPLY
	FC	FLEXIBLE CONNECTION	— <u> </u>	—— CR ——	CONDENSING WATER RETURN
		SPLITTER DAMPER		DTS	
			г	——DTR —— ——FOS ——	DUAL TEMPERATURE RETURN FUEL OIL SUPPLY
	VD	MANUAL VOLUME DAMPER		FOR	FUEL OIL RETURN
	BD	GRAVITY BACKDRAFT DAMPER		——FOV ——	FUEL OIL VENT
BD				MWL	MAKE - UP WATER LINE
	MD	MOTORIZED VOLUME DAMPER		— D ——	DRAIN LINE (OTHER THAN PLUMBING)
<u>γ</u>			۱ ۲	VL	VENT LINE (OTHER THAN PLUMBING)
	FD	FIRE DAMPER	-+		
<u> </u>	SD	SMOKE DAMPER OSD			REFRIGERANT LIQUID REFRIGERANT SUCTION
+ ♦			\diamond	G	GAS
	FD	FIRE DAMPER FSD	<u> </u>	cws	CHILLED WATER SUPPLY
	T V			—————————	CHILLED WATER RETURN
<u> </u>	ΤV	TURNING VANES		—— CA——	COMPRESSED AIR
		RETURN/TRANSFER/COMBUSTION AIR DISCHARC	GE DUCT UP	LPS	LOW PRESSURE STEAM
		RETURN/TRANSFER/COMBUSTION AIR DISCHARC	GE DUCT DOWN	—— MPS ——	MEDIUM PRESSURE STEAM
\geq		SUPPLY AIR/COMBUSTION AIR INTAKE UP			LOW PRESSURE CONDENSATE
		SUPPLY AIR/COMBUSTION AIR INTAKE DOWN			MEDIUM PRESSURE CONDENSATE
>		EXHAUST AIR DUCT UP		— HPS — — — — — — — — — — — — — — — — — — —	HIGH PRESSURE STEAM HIGH PRESSURE CONDENSATE
				CPD	CONDENSATE PUMP DISCHARGE
		EXHAUST AIR DUCT DOWN			HEATING WATER SUPPLY
		ROUND DUCT DOWN		— — HWR— —	HEATING WATER RETURN
		ROUND DUCT UP	D		
		INCLINED DROP IN THE DIRECTION OF AIR FLOW			
		INCLINED RISE IN THE DIRECTION OF AIR FLOW		NOS	NITROGEN OXIDE SENSOR
				ТТ	THERMOSTAT / TEMPERATURE SENSOR
		CONCENTRIC DUCT TRANSITION RECTANGULAR DUCT TO ROUND DUCT TRANSIT	ION	s s	TEMPERATURE SENSOR
 +++++	FXD	FLEXIBLE DUCT			
		CEILING AIR DEVICE		(co)	CARBON MONOXIDE SENSOR
		AIR DEVICE THROW DESIGNATION:		Н	HUMIDISTAT
$\boxtimes \rightarrow$		(HATCHING DESIGNATES ZERO THROW)			
		SIDEWALL AIR DEVICE			
- 44		DAMPERED SHOE DUCT TAP FROM RECT. MAIN			
Ъ,				MIS	CELLANEOUS SYMBOLS
8		SHOE DUCT TAP FROM RECT. MAIN			
<u> </u>		45° DAMPERED DUCT TAP			EQUIPMENT OR PLUMBING FIXTURE DESIGNATION
		45° DUCT TAP			 (RISER INDICATION P=PLUMBINGKP =KITCHENAP =ACID RISER DESIGNATION
		SADDLE TAP			— (RISER NUMBER)
<u> </u>		STRAIGHT RECT. DUCT TAP FROM RECT. MAIN			 (DETAIL NUMBER) DETAIL DESIGNATION
		UTATION REUT. DUUT TAF FRUM REUT. MAIN		$ \ominus $	(SHEET NUMBER WHERE DETAIL IS FOUND)
——————————————————————————————————————		STRAIGHT RECT. DUCT TAP FROM ROUND MAIN	S - SUPPLY DIFFUSER		
			AIR DEVICE TYPE:		· (SECTION NUMBER) SECTION DESIGNATION
S-1		(AIR DEVICE TYPE) - (SCHEDULE NUMBER)	T - TRANSFER GRILLE R - RETURN GRILLE		SECTION DESIGNATION (SHEET NUMBER WHERE SECTION IS FOUND)
1000		(AIR FLOW IN CFM)	E - EXHAUST GRILLE		
					KEYED NOTES
		DUCT SIZE DESIGNATION: 1ST FIGURE SIDE SHOWN. (SIZE	DUCT SYSTEM TYPE:		
24" x 12" RA	-	SHOWN IS FREE AREA SIZE, ALLOWANCE HAS NOT BEEN MADE	SA - SUPPLY AIR		REVISIONS
	$\overline{}$	FOR INTERIOR INSULATION WHERE SPECIFIED.)	RA - RETURN AIR		ACCESS PANEL
			EA - EXHAUST AIR TA - TRANSFER AIR	\bullet	NEW CONNECTION
24"/12"		FLAT OVAL DUCT	OA - OUTDOOR AIR		
				AFM	AIR FLOW MEASURING STATION
				CVR	CONSTANT VOLUME REGULATOR
				1	
		OR ABBREVIATIONS MAY BE USED.			

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PIPING SPECIALTIES

		IFING SPECIAL HES
	GV	
	CV GLV	CHECK VALVE GLOBE VALVE
	BLV	
	STR	
	U	UNION
Ø	BC	BALANCING COCK
<u>—Ф_</u>	SOC	SHUT-OFF COCK
	SLV	SOLENOID VALVE
	BFV	BUTTERFLY VALVE
	FS	FLOW SWITCH
		VALVE W/ SUPERVISORY SWITCH
	FCV	
<u>(</u> 4	T&PF	R TEMPERATURE AND PRESSURE RELIEF VALVE
φ	PG	PRESSURE GAUGE
<u> </u>	TH	THERMOMETER (TUBE OR DIAL AS INDICATED)
	PRV	PRESSURE REDUCING VALVE
\longrightarrow		DIRECTION OF FLOW
<u> </u>		ANCHORS
		PIPE GUIDES
	MV	MOTORIZED VALVE
	DV	DIAPHRAGM VALVE
	LPV	LUBRICATED VALVE
	HEV	HOSE END VALVE
$\rightarrow \bowtie$		STOP AND WASTE VALVE
Ϋ́,	TWV	3 - WAY VALVE (MIXING OR BY-PASS AS INDICATED)
∇		PETES PLUG
 ۲_		
\$₽	RV	RELIEF VALVE
	FC	FLEXIBLE PIPE CONNECTION
Ť	AVM	AIR VENT (MANUAL)
Ą		
I	AVA	AIR VENT (AUTOMATIC)
——————————————————————————————————————	EX	EXPANSION JOINT
	CCR	CONCENTRIC REDUCER
O		TEE (SIDE OUTLET UP)
		TEE (SIDE OUTLET DOWN)
o		ELBOW (TURNED UP)
		ELBOW (TURNED DOWN)
B	BMD	COMBINATION BALANCING & MEASURING DEVICE
		ECCENTRIC REDUCER
M		FLOW MEASURING DEVICE
	FIVID	
		STEAM TRAP
-X $-$		BALANCING VALVE
——————————————————————————————————————		FLEXIBLE CONNECTION
4		ELBOW
T		TEE
		ABBREVIATIONS
		LOOR ELEVATION
		INISH FLOOR VATION
		ELEVATION
	OW LIN	
INV IN	VERT E	LEVATION
<u>v</u> -		
		L CONSTRUCTION CONTRACTOR
		G CONTRACTOR
-	-	CAL CONTRACTOR
		TIC CONTROL SUB-CONTRACTOR
_		
		UB-CONTRACTOR

KEC

MC

TCC

KITCHEN EQUIPMENT CONTRACTOR

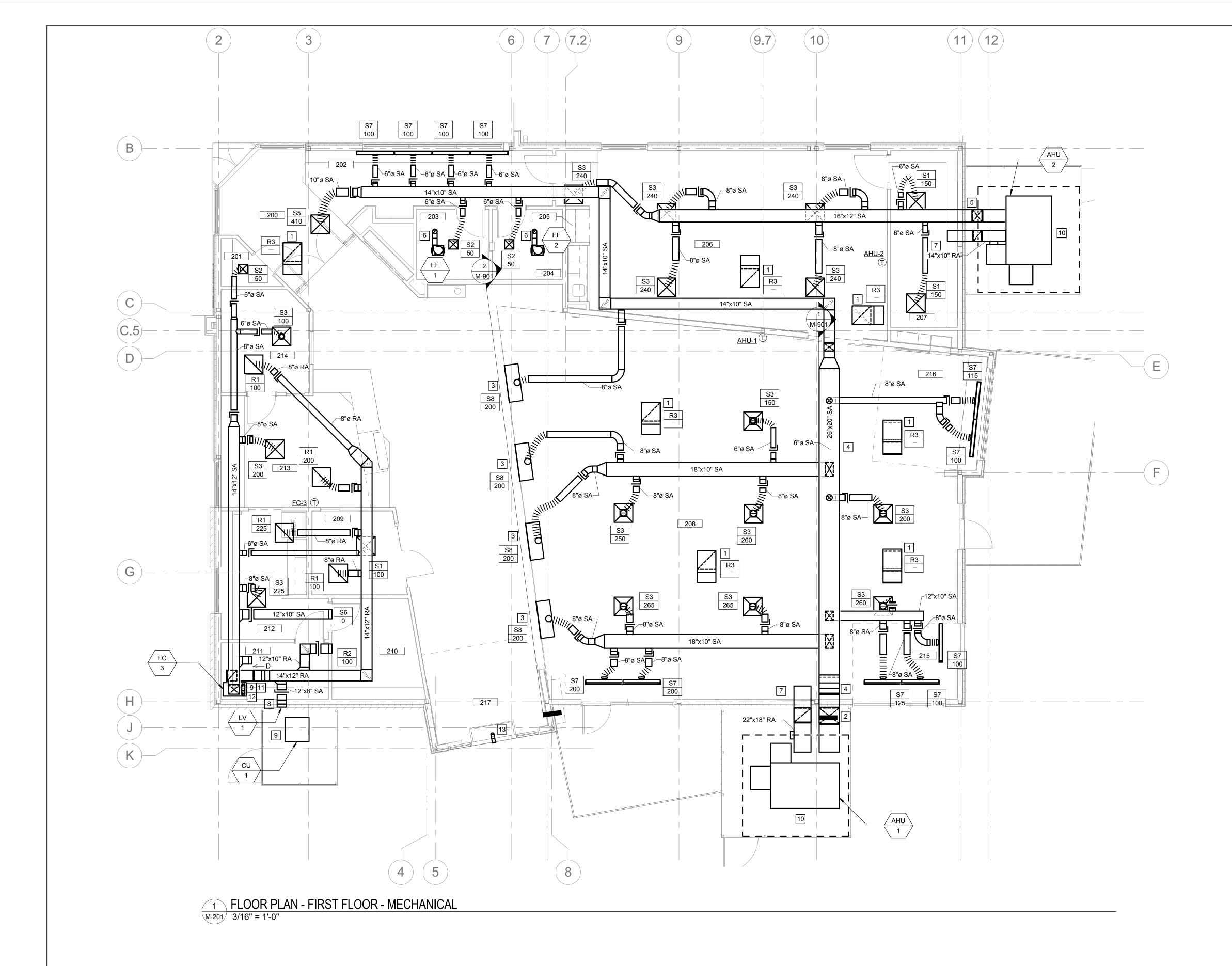
TEMPERATURE CONTROL CONTRACTOR

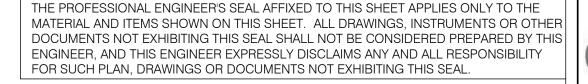
MECHANICAL CONTRACTOR

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MO. LICENS BRIC MO	CERTIFIC/ RITY 20020	007002812 ATE OF	
		ED FOR BID	
1			

PROJECT NUMBER: 16-1161.01

SHEET TITLE: LEGEND, SYMBOLS, NOTES, & **ABBREVIATIONS - MECHANICAL**





GENERAL NOTES

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

#

KEYED NOTES

- PROVIDE A RETURN BOOT. SEE DETAIL FOR ADDITIONAL INFORMATION.
 ROUTE SUPPLY AND RETURN DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH WALL WITH BOTTOM OF DUCT AT 15'-7" AFF. PROVIDE PAINTABLE ALUMINUM JACKET OVER INSULATION.
- 3 MOUNT SLOT DIFFUSER TO SIDEWALL OF SOFFIT. SEE SECTIONS FOR MOUNTING HEIGHT.
- SLOPE DUCT WITH ROOF SLOPE. SEE SECTION FOR FURTHER DETAILS.
 ROUTE SUPPLY AND RETURN DUCTWORK UP EXTERIOR WALL. PENETRATE THROUGH WALL WITH BOTTOM OF DUCT AT 10'-10" AFF. PROVIDE PAINTABLE ALUMINUM JACKET OVER INSULATION.
- 8" EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH GOOSENECK. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 7 PROVIDE 45°, 6" LONG BELLMOUTH FITTING AT INLET OF RETURN DUCT.
 8 TRANSITION DUCT AS REQUIRED TO CONNECT TO LOUVER. TOP OF DUCT SHALL BE FULSH WITH TOP OF LOUVER. SLOPE BOTTOM OF DUCT DOWN TOWARDS
- BE FLUSH WITH TOP OF LOUVER, SLOPE BOTTOM OF DUCT DOWN TOWARDS LOUVER. TRANSITION SHALL BE A MINIMUM OF 12" LONG.
 CONTRACTOR SHALL FIELD ROUTE REFRIGERANT PIPING BETWEEN FC-3 AND CU-1. REFRIGERANT SHALL BE ROUTED ON INTERIOR OF BUILDING UNTIL PENETRATION IS WITHIN FENCED IN REGION. ALL PIPING INSULATION SHALL BE ROUTED WITH DATA TO THE ALL MAIN MALANEET.
- PENETRATION IS WITHIN FENCED IN REGION. ALL PIPING INSULATION SHALL BE PROVIDED WITH PAINTABLE ALUMINUM JACKETS.
 10 ROUTE CONDENSATE PIPING TO FRENCH DRAIN. LOCATE FRENCH DRAIN A MINIMUM OF 2'-0" AWAY FROM SLAB EDGE. PROVIDE SUPPORTS FOR
- MINIMUM OF 2'-0" AWAY FROM SLAB EDGE. PROVIDE SUPPORTS FOR CONDENSATE PIPING AT A MINIMUM OF 5'-0" INTERVALS. DRAIN PIPING SHALL BE COPPER.
 11 ROUTE CONDENSATE DRAIN TO FLOOR DRAIN IN ROOM. DRAIN PIPING SHALL BE
- COPPER.
- 4"Ø CONENTRIC FLUE UP FROM FC-1 THROUGH ROOF.
 ROUTE 4" Ø FLUE FROM FIREPLAE THROUGH WALL. TERMINATE WITH DEFLECT-O MODEL GDV OR APPROVED EQUAL.

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ENGINEER OF RECORD:

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SHEET TITLE:

MECHANICAL

PROJECT NUMBER: 16-1161.01

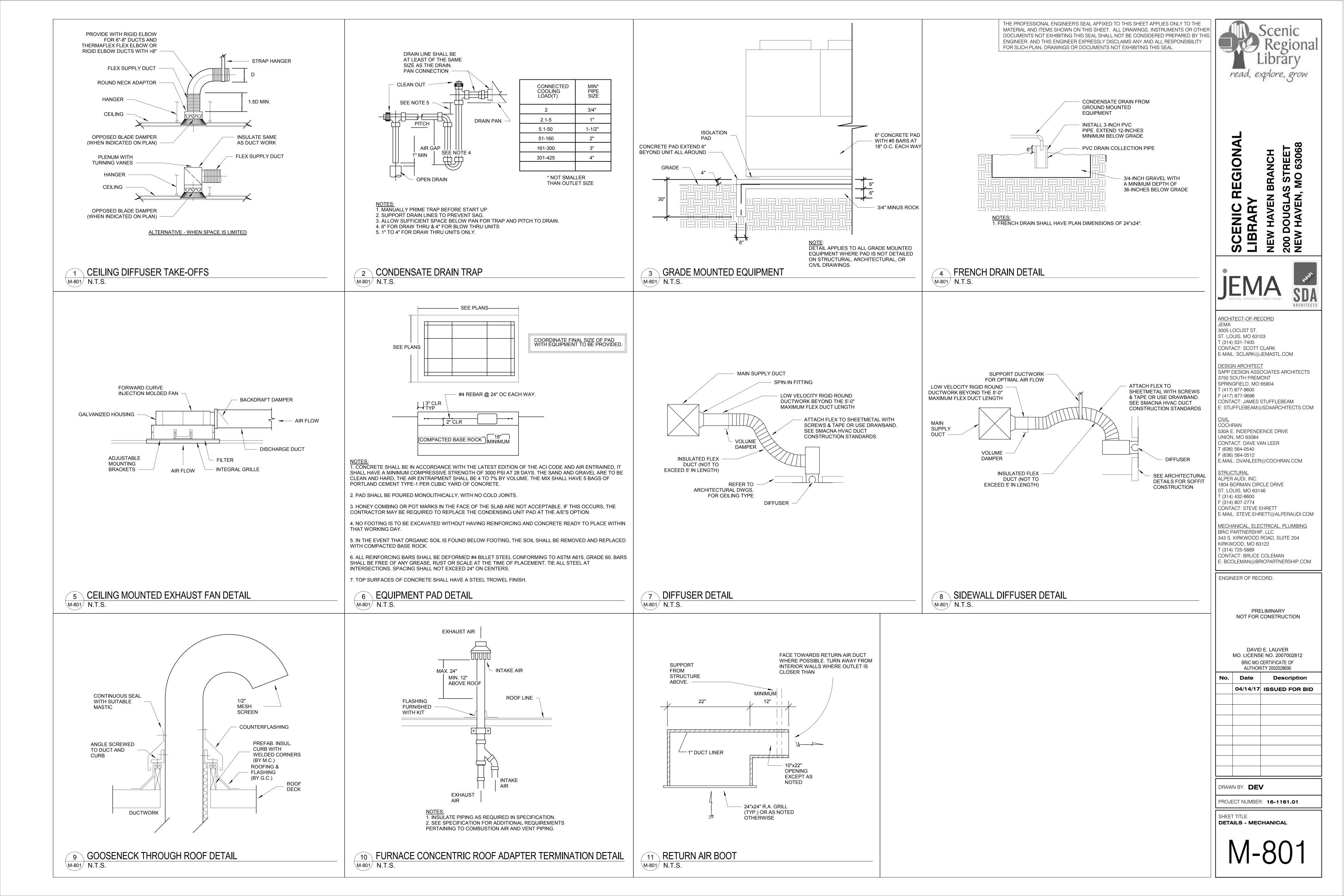
FLOOR PLAN - FIRST FLOOR -

ROOM SCHEDULE

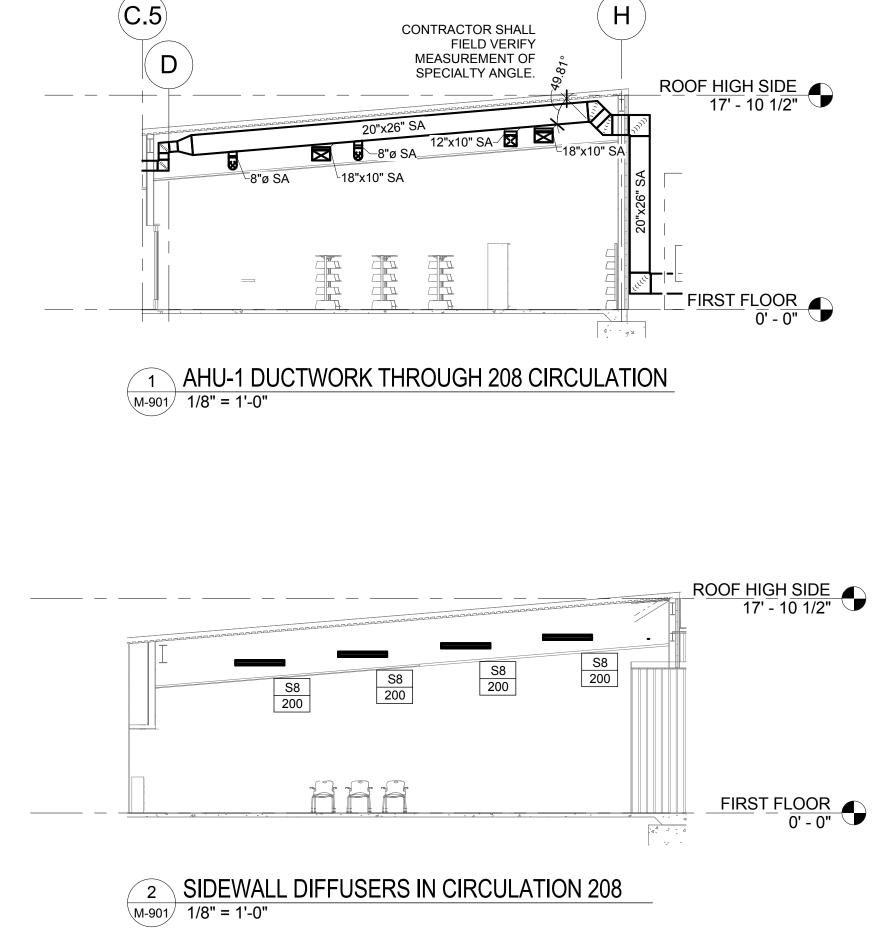
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NUMBER

200	VESTIBULE
201	JANITORS CLOSET
202	CORRIDOR
203	WOMENS
204	MENS
205	COATS
206	MEETING
207	STORAGE
208	CIRCULATION
209	STUDY
210	STORAGE
211	MECH / ELEC
212	BREAK ROOM
213	WORK ROOM
214	OFFICE
215	TEEN AREA
216	CHILDREN AREA
217	ADULT



FLAI	I MARK		
		MANUFACTURER	MODE
AH	U 1	JOHNSON CONTROLS	ZST10N1
AH	U 2	JOHNSON CONTROLS	ZVTA5N0
 HEA PRO 	TING PERFORM, VIDE WITH INTE VIDE STAINLESS VIDE WITH 14" S VIDE WITH 100% SHALL BE CON VIDE WITH SING	OR ELECTRICAL REQUIREN ANCE BASED ON FULL FLC GRAL CONTROLS TO PRO S STEEL OR COMPOSITE D EISMIC CURB FOR GRADE ECONOMIZER WITH POW FIGURED FOR HORIZONTA GLE POINT POWER CONNE NLESS STEEL OR ALUMINI	DW AND MIN VIDE SINGL DRAIN PAIN E MOUNTING VER EXHAU AL SUPPLY CTION, DIS



				PACKAGED AIR HANDLING UNIT												
					(COOLING PE	RFORMANC	E			HEATING PER	RFORMANC	E			
SUPPLY	MINIMUM	MINIMUM	EXTERNAL STATIC						TOTAL			INPUT	OUTPUT		OPERATING	
AIRFLOW	OUTSIDE AIR	HEATING	PRESSURE			AMBIENT			CAPACITY			CAP.	CAP.	REFRIGERANT	WEIGHT	
CFM	FLOW CFM	CFM	(IN.WG)	EDB (F°)	EWB (F°)	(F°)	LDB (F°)	DWB (F°)	(MBh)	EDB	LDB	(MBh)	(MBh)	USED	(LBS)	NOTES
4400	800	1200	1.00	79	65	95	58	55	113.6	43	73	180.0	144.0	R-410A	1165	1 , 2, 3
1500	485	600	1.00	84	69	95	57	56	61.4	40	80	80.0	65.0	R-410A	1063	1 , 2, 3

IMUM OUTSIDE AIRFLOW. E 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. TO MEET ASHRAE 62.1.

OF UNIT. T AND BAROMETRIC RELIEF KIT.

AND RETURN. CONNECT SWITCH, AND CONVIENCE OUTLET. BURNER.

FURNACE SCHEDULE

PLAN M	/IARK				SUPPLY FAN D-X CIRCUITING					GAS HEATING COIL								
				SUPPLY	OUTSIDE	MOTOR	CAP.	MBH	EA	٩T	L	AT	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 3	3	GUARDIAN	RGF19060	900	175	0.5	34.2	22.9	78	65	55	55	60	57	60	104	122	1

NOTES: 1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.

	CONDENSING UNIT SCHEDULE										
PLAN	MARK			ASSOCIATED	COOLING	REFRIGERANT	UNIT WEIGHT				
		MANUFACTURER	MODEL	INDOOR UNIT	CAPACITY (MBh)	TYPE	(LBS)	NOTES			
CU	1	GUARDIAN	RAC	AHU-3	36.0	R-410A	160.00	1			

NOTES: SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.
 INDOOR UNIT: GUARDIAN MODEL # RGF, HEATING CAPACITY 60 MBH.

	AIR DEVICE SCHEDULE													
					FA	CE	MAXIUMUM			AIR TERMINAL STATIC				
TYPE				CONNECTION			AIRFLOW	THROW	MAX NC	PRESSURE				
MARK	MANUFACTURER	MODEL	STYLE	SIZE	LENGTH	WIDTH	(CFM)	(FT)	LEVEL	(IN-WG)	MATERIAL	FINISH	MOUNTING TYPE	NOTES
S1	TITUS	OMNI	SQUARE PLAQUE	6"ø	12"	12"	100	7	30	0.10	STEEL	BWE	LAY-IN	1
S2	TITUS	OMNI	SQUARE PLAQUE	6"ø	24"	24"	160	8	30	0.10	STEEL	BWE	LAY-IN	1
S3	TITUS	OMNI	SQUARE PLAQUE	8"ø	12"	12"	300	12	30	0.10	STEEL	BWE	LAY-IN	1
S5	TITUS	OMNI	SQUARE PLAQUE	10"ø	24"	24"	410	14	30	0.10	STEEL	BWE	LAY-IN	1
S6	TITUS	300RL	GRILL	12"x10"	12"	10"	400	16	30	0.10	STEEL	BWE	SIDEWALL/SURFACE	
S7	TITUS	FL-10	ONE 1" SLOT HIGHTHROW	6"ø	48"	3 3/4"	150	16	20	0.10	STEEL	BWE	LAY-IN	1
S8	TITUS	FL-10	TWO 1" SLOT HIGHTHROW	8"ø	48"	5 5/16"	300	25	30	0.10	STEEL	BWE	SIDEWALL/SURFACE	
R1	TITUS	350RL	GRILL	8"ø	24"	24"	750	-	30	0.10	STEEL	BWE	LAY-IN	1
R2	TITUS	350RL	GRILL	12"x10"	12"	10"	500	-	30	0.10	STEEL	BWE	SIDEWALL/SURFACE	
_NOTES	TITUS	350RL	GRILL	22"x22"	24"	24"	1500	-	30	0.10	STEEL	BWE	LAY-IN	1

1. PROVIDE WITH EARTHQUAKE TABS.

LOUVER SCHEDULE										
ACTURER MODEI	L CFM	DIMENSIONS	FREE AREA (%)	MAX P.D. IN W.C.	MATERIAL	NOTES				
SKIN ELF6375D	X 175	12 X 12	57	0.1	ALUMINUM	1,2				
_					ACTURER MODEL CFM DIMENSIONS FREE AREA (%) IN W.C.	ACTURER MODEL CFM DIMENSIONS FREE AREA (%) IN W.C. MATERIAL				

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

		EX
PLAN MARK		
	MANUFACTURER	MODE
EF 1	LOREN COOK	GC-162
EF 2	LOREN COOK	GC-162

NOTES: 1. SEE SHEET E-901 FOR ELECTRICAL INFORMATION.

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XHAUST FAN SCHEDULE						
DEL	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN-WC)	FAN RPM	INLET SONES	MOTOR POWER WATTS	NOTES
-162	150	0.12	1200	3.4	98	1
-162	150	0.12	1200	3.4	98	1

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ARCHITECT-OF-R JEMA 3005 LOCUST ST. ST. LOUIS, MO 63 T (314) 531-7400 CONTACT: SCOTT E-MAIL: SCLARK(DESIGN ARCHITE SAPP DESIGN AS: 3750 SOUTH FREI SPRINGFIELD, MO T (417) 877-9696 CONTACT: JAMES E: STUFFLEBEAM CIVIL COCHRAN 530A E. INDEPEN UNION, MO 63084 CONTACT: DAVE T (636) 584-0540 F (636) 584-0540 F (636) 584-0540 F (636) 584-0512 E-MAIL: DVANLEE STRUCTURAL ALPER AUDI, INC. 1804 BORMAN CII ST. LOUIS, MO 63 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE E-MAIL: STEVE.EH MECHANICAL, EL BRIC PARTNERSH 343 S. KIRKWOOD KIRKWOOD, MO 6 T (314) 725-5889 CONTACT: BRUCI E: BCOLEMAN@E	103 CLARK DEMAST SOCIATES MONT 0 65804 STUFFL @SDAAR DENCE D WAN LEEF R@COCH RCLE DRI 146 EHRETT IRETT@A ECTRICAI IIP, LLC 0 ROAD, S 33122 E COLEM BRICPART	S ARCHITECTS EBEAM ICHITECTS.CO RIVE INTE INTE INTE ILPERAUDI.CO IL PLUMBING SUITE 204	M
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SHEET TITLE: SCHEDULES		anical	

PLUMBING GENERAL NOTES - PLUMBING SHEETS ONLY

- PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL 1 NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO T AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS.
- 2. CONTRACTOR SHALL VERIFY EXACT LOCATION, CONDITION, ELEVATION AND SIZES OF UTILITIES AT SITE BEFORE PROCEEDING
- PLUMBING CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTR 3. RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS.
- 4. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH INTERNATIONAL PLUMBI 2003 EDITION AND INTERNATIONAL BUILDING CODE 2003 EDITION.
- CONTRACTOR SHALL PROTECT ALL ADJACENT AREAS DURING ALL PHASES OF CONSTRUCTION. 5.
- ANY HOLES LEFT IN WALL CONSTRUCTION DUE TO WORK SHALL BE PATCHED AND PAINTED BY THIS CONTRACTOR TO MATCH 6. CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT.
- 7. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. INSTALL WATER HAMMER ARRESTORS AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATION. IF LOCATION IS N ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- PLUMBING CONTRACTOR TO FURNISH AND INSTALL SHUT-OFF VALVES AND ACCESS PANELS AT THE BASE OF ALL WATER SUPP 8. RISERS.
- 9. PLUMBING CONTRACTOR TO PROVIDE CLEANOUT AT THE BASE OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, AND SAM STACKS.
- 10. PLUMBING CONTRACTOR SHALL VERIFY THAT ALL VALVES IN THE COLD AND HOT WATER SUPPLY PIPING ARE IN THE FULLY OPE CONTRACTOR TO VERIFY ALL BALANCING VALVES ON HOT WATER CIRCULATING PIPING ARE OPEN AND ADJUSTED AS NOTED T PROPER CIRCULATION.
- 11. PLUMBING CONTRACTOR TO FURNISH AND INSTALL EQUIPMENT DRAINS FOR ALL APPLIANCES (AIR HANDLERS, WATER HEATER EQUIPMENT, (ETC.) AND ROUTE TO THE NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION AT DRAIN AS REQUIRED. FIN CONNECTION TO EQUIPMENT SHOULD BE MADE BY CONTRACTOR PROVIDING EQUIPMENT UNLESS OTHERWISE NOTED.
- 12. 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
- 13. ALL PIPING SHALL BE CONCEALED IN CHASE, WALLS, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OU WALL FOR CLARITY ONLY.

PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN)								
MARK DESCRIPTION MANUFACTURER MODEL NUMBER WASTE VENT COLD 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
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	LEONARD	TM-420 B-LF-DT	-	-	3/4"	3/4"	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 ARRESTORS

	DRAIN SCHEDULE (BASIS OF DESIGN)						
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							
ELECTRIC WATER HEATER SCHEDULE							

LL FHAT ALL PIPE	14.	REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY SIZES TO INDIVIDUAL FIXTURES.
	15.	EQUIPMENT AND FIXTURE SYMBOLOGY MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.
WITH WORK.	16	FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. CONTRACTOR TO FIRESTOP
RACTOR AND	16.	ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
NG CODE	17.	PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS CONTRACTOR. PAD SHOULD BE A MINIMUM OF 4" THICK.
	18.	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.
	19.	CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.
FURNISH AND NOT READILY	20.	INVERT ELEVATIONS ARE BASED ON FIRST FLOOR LEVEL BEING SET AT 100'-0".
PLY PIPING	21.	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.
NITARY	22.	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.
PEN POSITION. TO ASSURE	23.	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.
RS, KITCHEN NAL	24.	MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS.
	25.	EXCAVATION, BEDDING AND BACKFILL ASSOCIATED WITH BELOW SLAB PIPING INSTALLATION SHALL BE CONSIDERED PART OF THE PLUMBING CONTRACTOR'S WORK.
	26.	STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.
UTSIDE OF	27.	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.

ELECTRIC WATER HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL NO.	STORAGE	OUTLET TEMPERATURE ° F	RECOVERY AT 100° F RISE	INPUT	NOTES
EWH-1	A.O. SMITH	DEL-10D-4.5	10 GAL	140	18 GAL/HR	4.5 KW	1
NOTES							

SEE SHEET E-901 FOR ELECTRICAL INFORMATION.

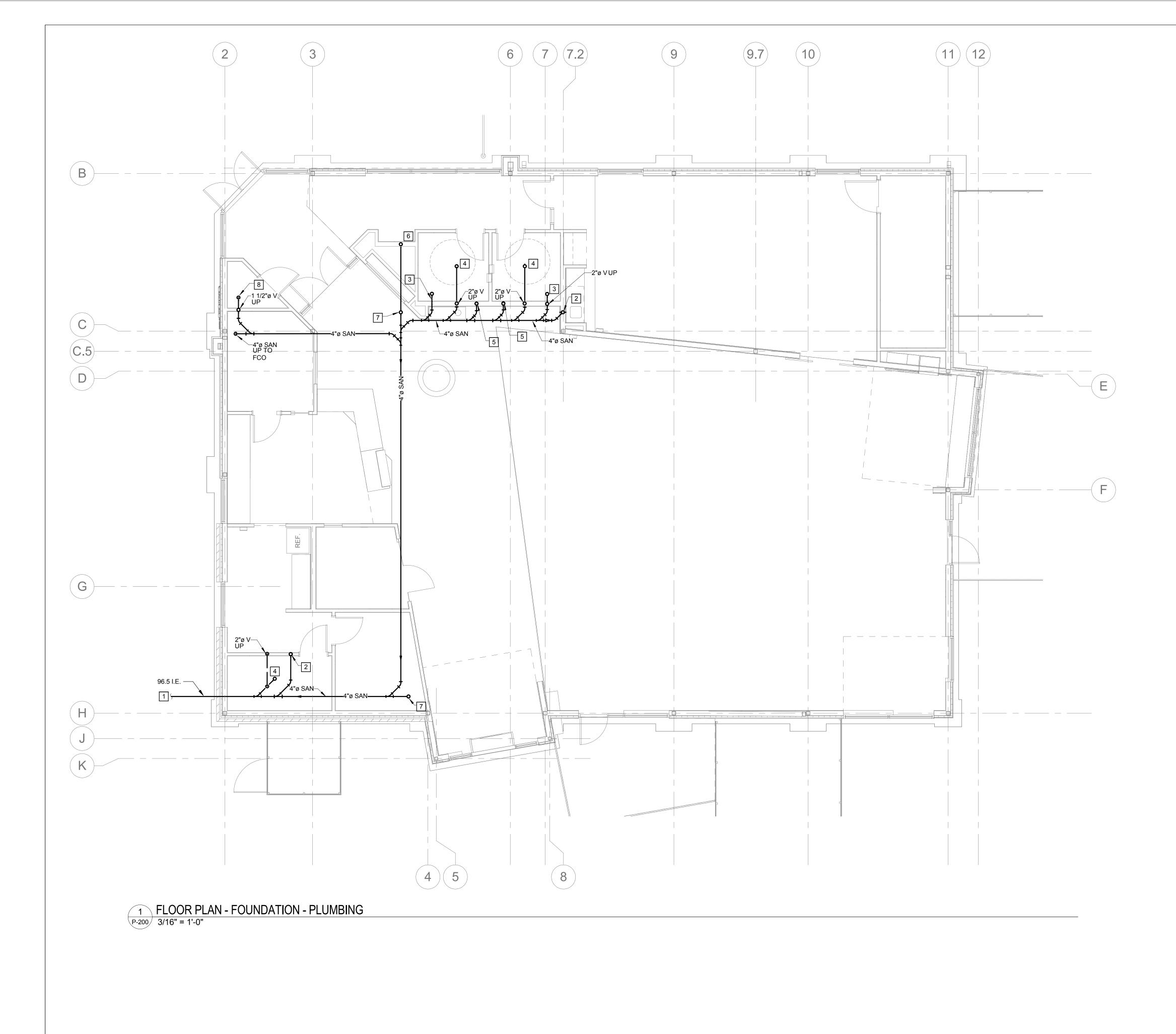
THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY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

PLUMBING SYMBOLS AND ABBREVIATIONS

SYMBOL	LS AND ABBREVIATIONS DESCRIPTION
U I WIDUL	
4	DIRECTION OF FLOW OR SLOPE
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW) HOT WATER CIRCULATING (HWC)
S	SANITARY SEWER (S)
S	SANITARY SEWER BELOW SLAB (S)
	VENT (V)
ST	STORM SEWER BELOW SLAB (ST)
G	NATURAL GAS (G)
0	RISE OR UP DROP OR DOWN
	BRANCH CONNECTION - TOP
	BRANCH CONNECTION - BOTTOM
	CLEANOUT
"]	CAP / PLUG
_ ۲	FIXTURE TRAP
N	VALVE
	CHECK VALVE
	STRAINER
	UNION
	GAS VALVE
K	PRESSURE REGULATOR - GAS
M	METER
D	DOMESTIC CIRCULATING PUMP (DCP)
× Z	PRESSURE/TEMPERATURE RELIEF VALVE
	DOUBLE CHECK BACKFLOW PREVENTER (BFP)
Ο	FLOOR DRAIN (FD)
\bigcirc	FLOOR CLEANOUT (FCO)
1	KEYED NOTE
/xxx	
	MISCELLANEOUS EQUIPMENT TAG
ADA	AMERICANS WITH DISABILITIES ACT
BTC CFH	BRANCH TO CONNECTION
CI	CUBIC FEET PER HOUR CAST IRON
CO	CLEANOUT
DN	DOWN
DP	DROP
DS DWV	DOWNSPOUT DRAIN WASTE VENT
EWC	ELECTRIC WATER COOLER
EXIST.	EXISTING
FCO	FLOOR CLEANOUT
FLA	FULL LOAD AMPS
GPH	GALLONS PER HOUR
GPM I.E. OR INV. ELEV.	GALLONS PER MINUTE INVERT ELEVATION
LA	LAVATORY
MB	MOP BASIN
M.C.	
N.C. ODN	NORMALLY CLOSED OVERFLOW DOWN SPOUT NOZZLE
ODS	OVERFLOW DOWN SPOUT NOZZLE
P.C.	PLUMBING CONTRACTOR
SK SQ. FT.	SINK SQUARE FEET
SQ. FT.	SQUARE FEET SANITARY STACK
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
VS	VENT STACK
VTR WC	VENT THRU ROOF
WCO	WATER CLOSET WALL CLEANOUT
WH	WALL HYDRANT
WHA	
	YARD CLEAN OUT
	EVIATIONS USED FOR THIS PROJECT.



ceni



GENERAL NOTES

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

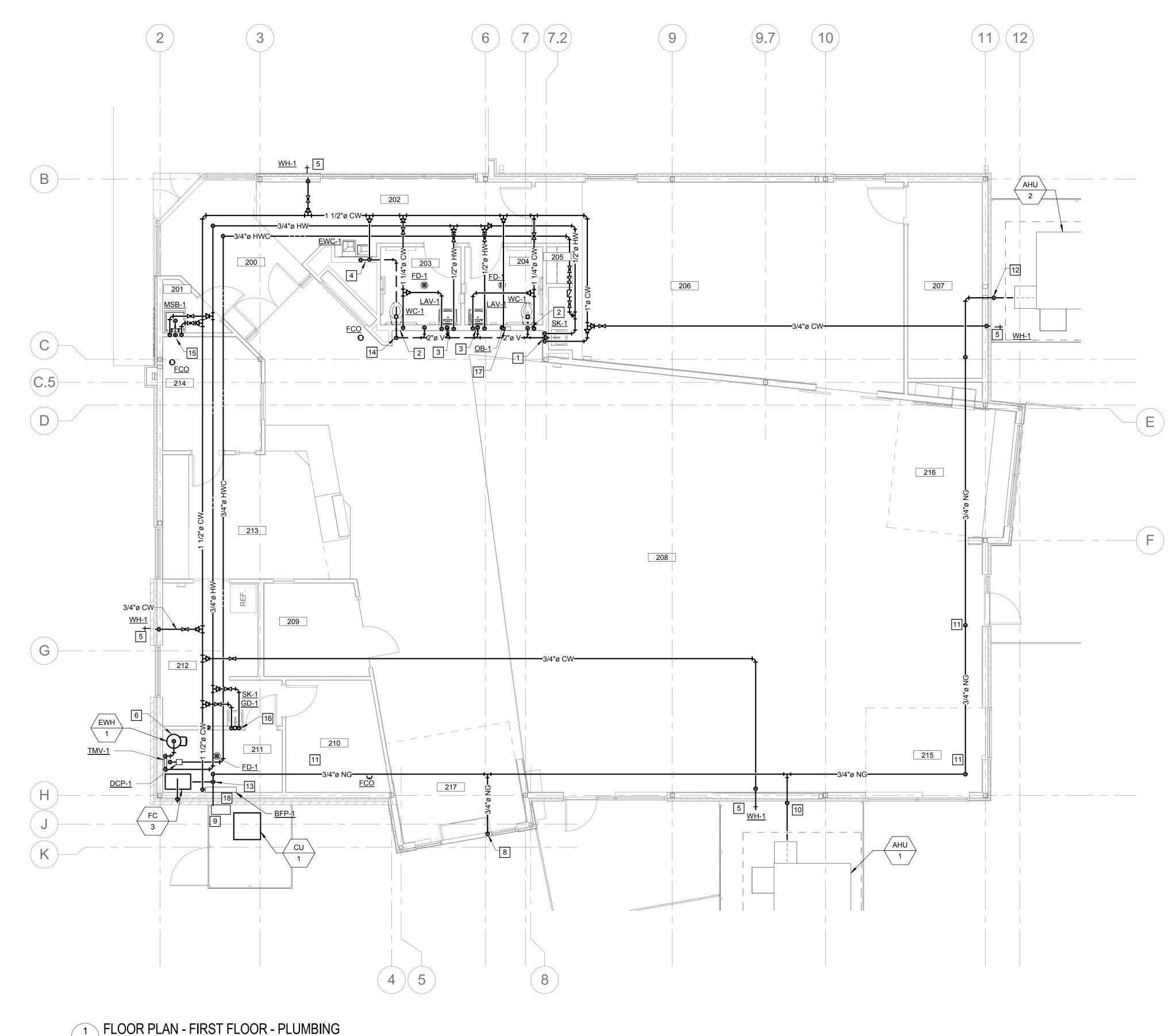
KEYED NOTES

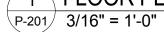
- SEE CIVIL PLANS FOR CONTINUATION.
 2" SANITARY UP TO SK-1.
- 3 4" SANITARY UP TO WC-1.

#

- 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.







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 1/4" 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. MOUNT WH-1 18" ABOVE GRADE.
- 6 SEE DETAIL FOR EWH-1 PIPING REQUIREMENTS.
- 8 3/4" NG DOWN TO FIREPLACE. ROUTE IN WALL. COORDINATE EXACT LOCATION WITH FIREPLACE CONNECTION
- 9 LOCATION OF GAS METER. SEE DETAIL FOR INSTALLATION REQUIREMENTS.
- 10 CONNECT 3/4" NG TO AHU-1. PENETRATE WALL 18" AFF. SUPPORT PIPING ON GROUND. 11 DROP PIPING THROUGHOUT BUILDING TO COORDINATE WITH
- ROOF AND CEILING SLOPE. 12 3/4" NG DOWN THROUGH WALL. PENETRATE WALL 18" AFF. ROUTE TO AHU-2. SUPPORT PIPING ON GROUND.
- 13 3/4" NG DOWN TO FC-1. 14 3" VENT UP THROUGH ROOF.

#

- 15 1/2" CW AND HW DOWN TO MSB-1 AND 2" VENT FROM MOP BASIN, TRANSITION TO A 3" VENT UP THROUGH ROOF.
- 16 1/2" CW AND HW DOWN TO SK-1. 2" VENT FROM SINK, TRANSITION TO A 3" VENT UP THROUGH ROOF.
- 17 1/2" CW DOWN TO OB-1. INSTALL OB-1 UNDER COUNTER.
- 18 REFER TO DETAIL ON SHEET P-801 FOR ADDITIONAL INFORMATION REQUIREMENTS.

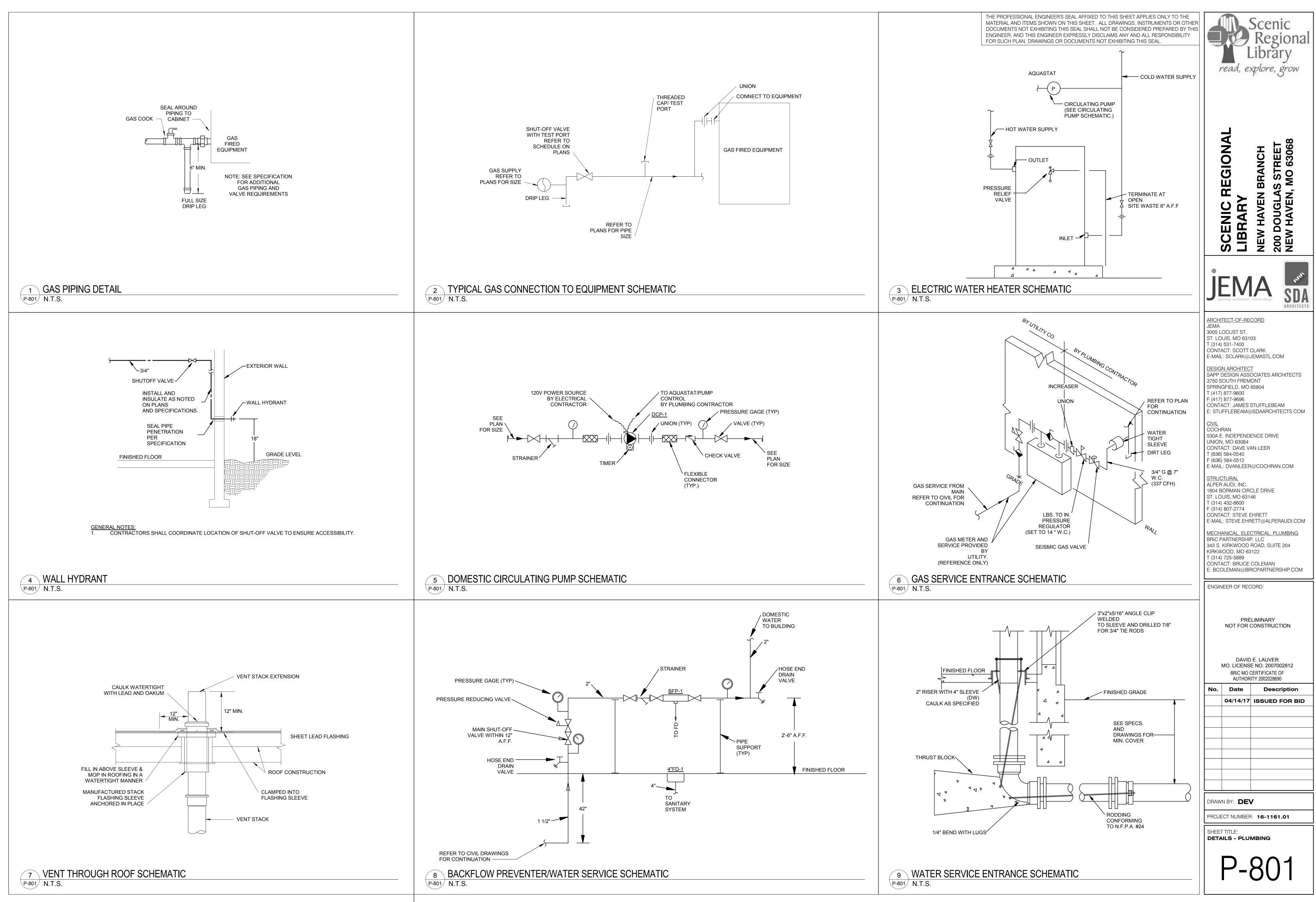
ROOM SCHEDULE NAME

NUMBER

200	VESTIBULE
201	JANITORS CLOSET
202	CORRIDOR
203	WOMENS
204	MENS
205	COATS
206	MEETING
207	STORAGE
208	CIRCULATION
209	STUDY
210	STORAGE
211	MECH / ELEC
212	BREAK ROOM
213	WORK ROOM
214	OFFICE
215	TEEN AREA
216	CHILDREN AREA
217	ADULT

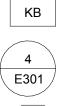
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SHEET TITLE: FLOOR PLAN - FIRST FLOOR -PLUMBING



<u>EL</u>	ECTRICAL ABBREVIATIONS:		ELECTRICAL SYMBOLS:	RECEPTACLE SYMBOLS:
A.F.	AMP FUSE. USED IN CONJUNCTION WITH "A.S."		ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.	TYPE DESIGNATION:
A.F.F	ABOVE FINISHED FLOOR.	(L)	CEILING-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)	"SW"- NEMA 5-20R GROUND TYPE DUPLEX REC CIRCUIT THROUGH LOCAL OCCUPANCY SENSOR
A.S.	AMP SWITCH USED IN CONJUNCTION WITH "A.F." OR "N.F."	_		LOCATED ABOVE CEILING. REFER TO LIGHTING P LOCATION OF CONTACTOR.
С	IN STATEMENT IS ABBREVIATION FOR "CONDUIT."	J	WALL-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)	"TVSS"-NEMA 5-20R SURGE SUPPRESSION TYPE I
CAFC	CI COMBINATION ARC FAULT CIRCUIT INTERRUPTER BREAKER.	FB#	FLOORBOX FB# INDICATES FLOOR BOX REQUIREMENTS	RECEPTACLE. "MW"- MICROWAVE RECEPTACLE.
CLG			FB1 - FLOOR BOX POWER:	"TV"- TV RECEPTACLE. MOUNT ADJACENT TO T
E.C.	ELECTRICAL CONTRACTOR (DIVISION 16)		(1) 5-20 DUPLEX RECEPTACLES.	REFER TO COMMUNICATIONS FLOOR PLANS FOR LOCATIONS.
E.M.	EQUIPMENT MANUFACTURER.		COMMUNICATIONS: (1) DATA OUTLETS (RJ-45).	"EWC"- ELECTRIC WATER COOLER RECEPTACLE: BEHIND WATER COOLER ACCESS PLATE OR DIRE
ETR	EXISTING TO REMAIN.		FB2 - FLOOR BOX	BEHIND WATER COOLER ACCESS PLATE OR DIRE BELOW AND CENTER ON EWC. CONTRACTOR SHA VERIFY TYPE OF EWC TO BE INSTALLED.
EX	INDICATES DEVICE IS EXISTING.		POWER: (2) 5-20 DUPLEX RECEPTACLES.	"H"- MOUNT OUTLET HORIZONTALLY.
F.B.C			COMMUNICATIONS: (2) DATA OUTLETS (RJ-45).	"G"- INDICATES A 5-20 RECEPTACLE (NON-GFC
FS GD	FUSIBLE SWITCH. GARAGE DOOR INSTALLER.		FB3 - FLOOR BOX	BY GFCI PROTECT CIRCUIT BREAKER. PROVIDE PI LABEL.
GD	GROUND FAULT INTERRUPT PROTECTION.		POWER: (2) 5-20 DUPLEX RECEPTACLES.	"A"- INDICATES A 5-20 RECEPTACLE (NON-AFCI BY AFCI PROTECT CIRCUIT BREAKER. PROVIDE PE
HP	HORSEPOWER		FB4 - FLOOR BOX POWER:	LABEL.
IG	ISOLATED / INSOLATED GROUND DEVICE.		(1) 208V/2P BREAKER WITH 120V WHIP (3) #12, (1) #12 GND, 1" C	NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE. SUBSC
LVC	LOW VOLTAGE CONTRACTOR		WITH SHARED NEUTRAL.	INDICATES TYPE. MOUNT AT 18" A.F.F. UNLESS NOTED OT
M.C.	MECHANICAL CONTRACTOR (DIVISION 15).		COMMUNICATIONS: PROVIDE CAT6 DATA CONNECTION PER FLOOR PLAN.	NEMA 5-20R G.F.I. DUPLEX RECEPTACLE. MOUNT 18" A.F.F NOTED OTHERWISE
NF	NOT FUSED / NON-FUSIBLE SWITCH.	LP1	PANELBOARD LOCATION ON PLANS. "LNL1" INDICATES DESIGNATION.	
NIC			FEEDER SCHEDULE NOTE. "A" INDICATES FEEDER IN SCHEDULE.	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE. SUBSCRIPT II TYPE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
OC P.C.	6" OVER (ABOVE) COUNTER LEVEL. PLUMBING CONTRACTOR (DIVISION 15).			NEMA 5-20R G.F.I. DOUBLE DUPLEX RECEPTACLE. MOUNT
P.C. REL			MECHANICAL EQUIPMENT DESIGNATION. "CU-1" INDICATES ITEM IN MECHANICAL EQUIPMENT DATA SCHEDULE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITION REQUIREMENTS.	UNLESS NOTED OTHERWISE.
ΤV	TELEVISION			ONEMA 5-20R GROUND TYPE SIMPLEX RECEPTACLE. SUBSOINDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
U.N.(D. UNLESS NOTED OTHERWISE.	$\rightarrow \parallel$	CIRCUIT CONDUIT ROUTING. 👘 📲 INDICATES ONE (1) GROUND CONDUCTOR, ONE (1) NEUTRAL CONDUCTOR AND TWO (2) PHASE CONDUCTORS RESPECTIVELY. ") 📲 INDICATES ISOLATED GROUND	SPECIAL PURPOSE RECEPTACLE AS INDICATED ON DRAW
UCR	UNDER COUNTER REFRIGERATOR.		CONDUCTORS RESPECTIVELY. FINDICATES ISOLATED GROUND CONDUCTOR. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM U.N.O.	SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
UPS	UNINTERRUPTIBLE POWER SUPPLY.	Atta	CIRCUIT/CONDUIT "HOMERUN".	CORD REEL RECEPTACLE. REFER TO DETAIL ON FLOOR P
VFD	VARIABLE FREQUENCY DRIVE.		CONDUIT ROUTED UNDER SLAB.	
W	WALL MOUNTED DEVICE (48" A.F.F.)			LIGHTING SYMBOLS:
WP	WEATHERPROOF IN-USE COVER.		CONDUIT ROUTED IN CEILING SPACE OF LEVEL BELOW.	
EL	ECTRICAL INSTALLATION NOTES:		CONDUIT ROUTED EXPOSED AS SHOWN.	"" INDICATES FOR DEVICE TO BE WALL-MOUNTED
		0	CONDUIT TURNING UP.	ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMU
1.	THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).		CONDUIT TURNING DOWN.	B-LLC DOWNLIGHT.
2.	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.		GROUND CONNECTION OR LIGHTNING PROTECTION GROUND ROD LOCATION.	"B"- INDICATES FIXTURE TYPE. "23"- NUMBER DESIGNATES FIXTURE CIRCUIT.
	CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR	\$ MP	MOTOR STARTING SWITCH. MOUNT AT 48" A.F.F. U.N.O. "M" INDICATES	"LLC"- FIXTURE CONTROLLED BY LIGHTING CONT
	SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS	⊺ MP	MOTOR. "P" INDICATES WITH PILOT LIGHT.	REFER TO LIGHTING CONTROL DIAGRAM FOR DEV CONTROLS.
	WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.		MOTOR CONNECTION. "1" INDICATES HORSEPOWER.	"a,b,c"- FIXTURE CONTROLLED BY LOCAL SWITCH
	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"	۲	POWER POKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE CONDUIT CONNECTION.	LIGHTING CONTROL SYMBOL FOR CONTROL METH TYPICAL OF ALL LIGHT FIXTURES. SEE LIGHT FIXTURE SCH
	BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT / ENGINEER.			MORE INFORMATION.
5.	CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND . OR	90A 3-POLE	ELECTRICAL DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND NUMBER OF CONDUCTORS.	WALL MOUNTED DOWNLIGHT.
	SPEAKERS WITH LUMINARIES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO	۲	PUSHBUTTON.	LIGHT FIXTURE. SIZE AS INDICATED.
	CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.			O WALL MOUNTED LIGHT FIXTURE.
	EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEW SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION		COMMUNICATION SYMBOLS:	
	THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND / OR EQUIPMENT.		COMMONICATION OTMODELO.	
	WALL MOUNTED DEVICES (STROBES, PULL STATIONS, SPEAKERS, SENSORS,	A	COMMUNICATION ROUGH-IN ONLY WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED	EMERGENCY STRIP LIGHT FIXTURE.
	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	<u>×</u>	OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE PULL	EMERGENCY DOWNLIGHT.
	BE MOUNTED VERTICALLY.		STRING AND BLANK FACEPLATE.	CEILING MOUNTED EMERGENCY LIGHT FIXTURE.
	ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID THE IMPEDANCE OF OPERATION AND / OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT.	▼ ^A	COMMUNICATION OUTLET IN RECESSED WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-1/8" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED	
	ALL MOUNTING OF ELECTRICAL GEAR ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.		OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE	EXIT LIGHT FIXTURE. PROVIDE WITH ARROWS AS INDICATI
9.	TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF		CABLING AND JACKS AS DENOTED (SEE BELOW), "#A" (TYPICAL) INDICATES CABLING AND CONNECTIVITY REQUIREMENTS.	DECORATIVE POST TOP SITE LIGHTING FIXTURE.
	TELECOMMUNICATION DEVICES ON EQUIPMENT. ALL MOUNTING OF CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.		CABLING REQUIREMENTS	POLE MOUNTED SITE LIGHTING FIXTURE.
	ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH		"#A" - TELEPHONE CABLE (CAT 5e)	CEILING FAN - REFER TO LIGHT FIXTURE SCHEDULE FOR 1
	FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTING WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR CROUND THROUCH ELEXIBLE CONDUIT. ELEXIBLE CONDUIT SHALL NOT		"WA" - WALL PHONE, MOUNT 48" A.F.F. FACEPLATE SHALL HAVE BASE UNIT MOUNTING STUDS	U
	MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.		"#D" - DATA CABLE (CAT 6).	
	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED		"WAP" - WIRELESS ACCESS POINT. PROVIDE CAT6 WITH MALE RJ45	
	CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.		KJ45 NOTE: NUMBER (#) BEFORE CABLE TYPE INDICATES QUANTITY	
	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.	¥	TV CONNECTION. PROVIDE WIREMOLD EVOLUTION WALL BOXES. BOX SHALL HAVE POWER AND DATA ON TOP WITH SPACE ON BOTTOM.	
	CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230 OF THE NATIONAL ELECTRIC CODE.		PROVIDE 1" C. FOR DATA AND 3/4" C. FOR POWER. PROVIDE CAT6 FROM SERVER TO BOX AND PROVIDE TERMINATION TO CABLE.	
14.	CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT			

OTHER:



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

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

1 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

WALL SWITCH. "110i" NUMBER INDICATE ROOM NUMBER. LETTER INDICATES SWITCH NUMBER IN THE ROOM.

PC PHOTO CELL DEVICE.

C CONTACTOR.

LCPS LIGHTING CONTROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE CEILING.

LCP LIGHTING CONTROL PANEL. INCLUDES SYSTEM CONTROLLER. CONTAINS RELAYS.

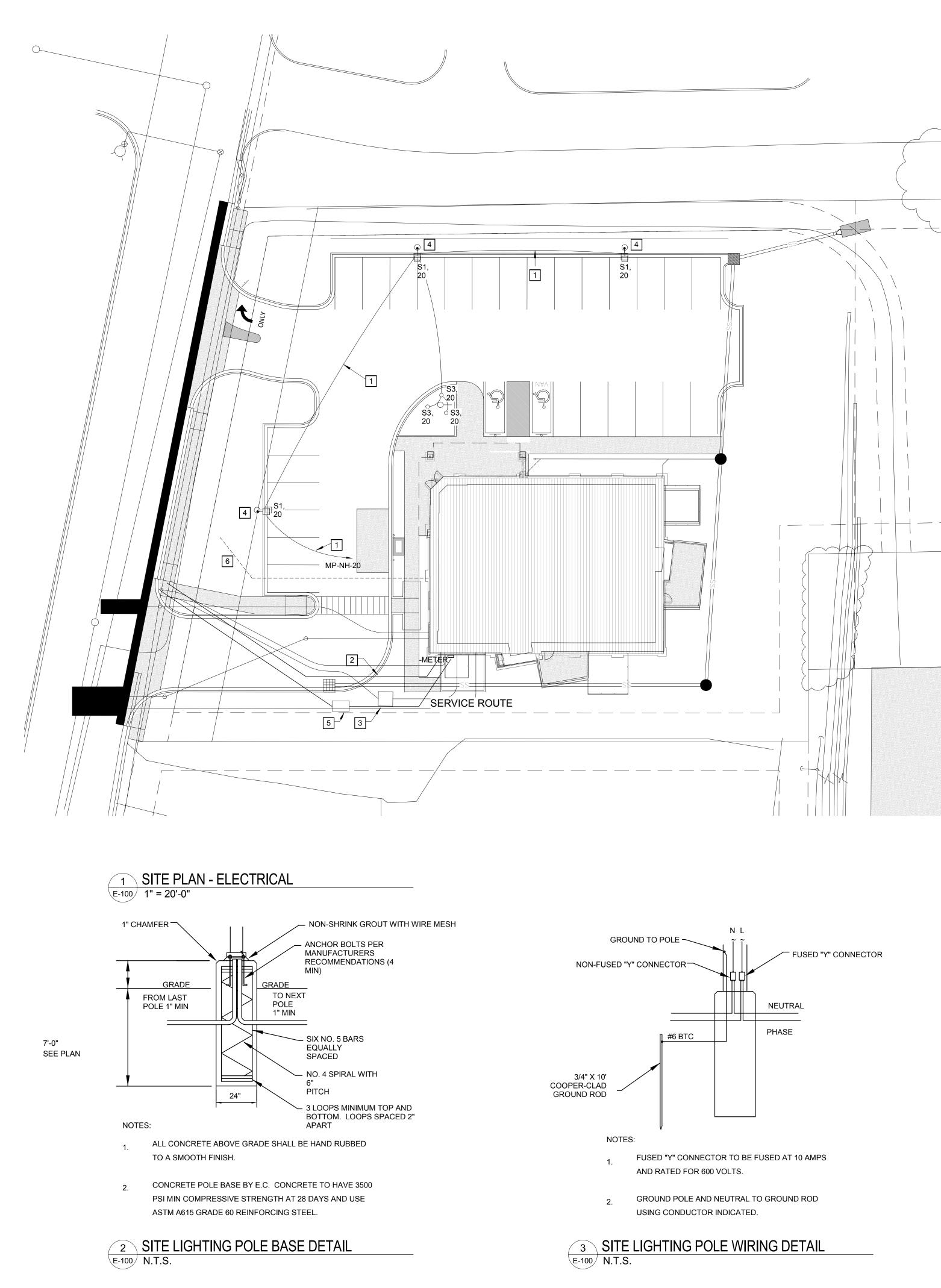
LLC LOCAL LIGHTING CONTROLLER. REFER TO DETAIL 1/E8.0.0

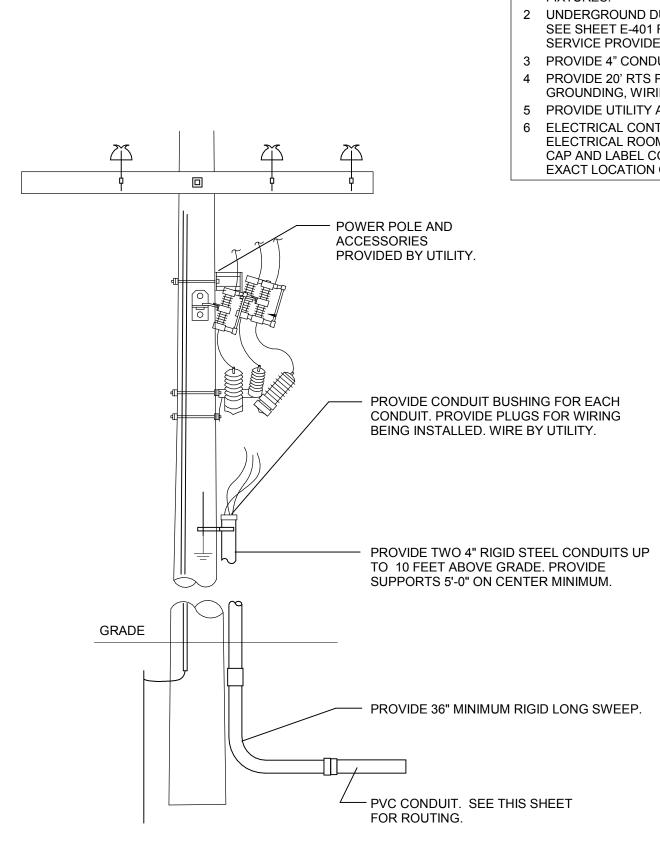
NI NETWORK INTERFACE

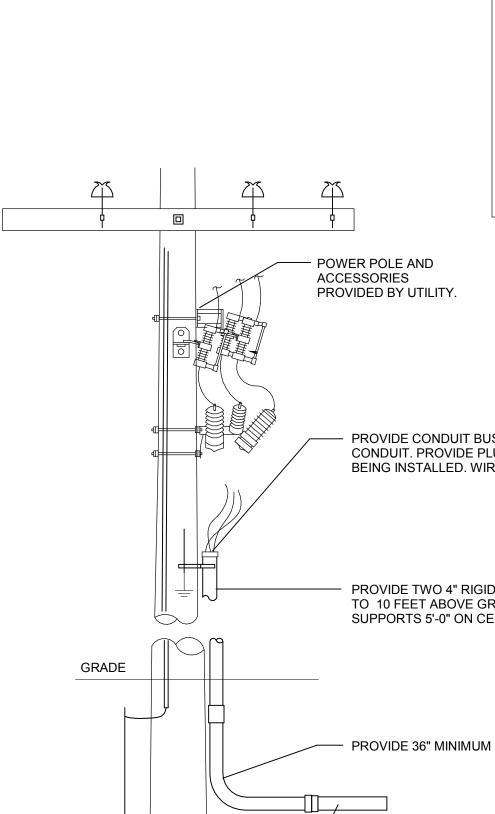
OCCUPANCY SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT AT 96" A.F.F. SUBSCRIPT DENOTES SENSOR TYPE. "IR"- PASSIVE INFRARED TECHNOLOGY. "DT"- DUAL (PIR + ULTRASONIC) TECHNOLOGY.

JOCCUPANCY SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J-
BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE
REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS. BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE.

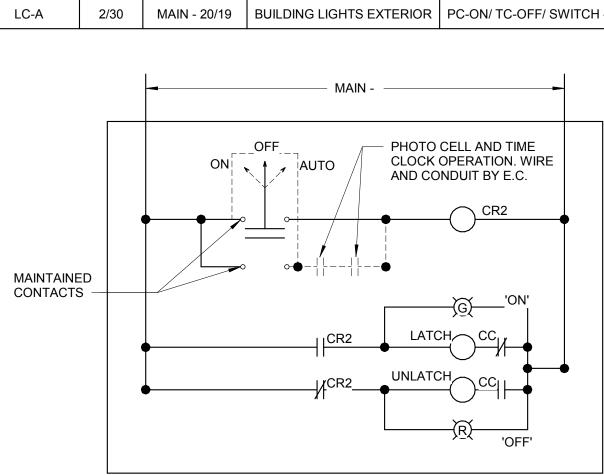


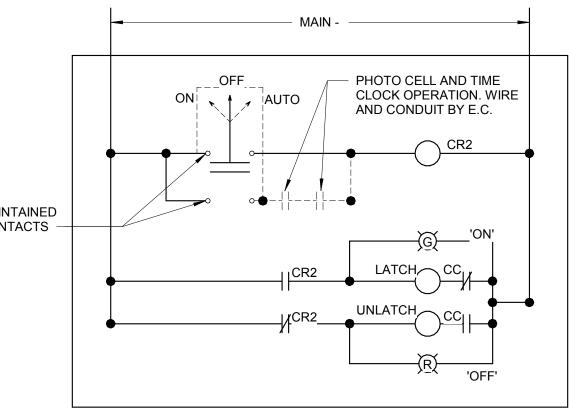














CONTACTOR POLES NAME / AMPS

THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHEI 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

PROVIDE LIGHTING CONTACTOR FOR BUILDING MOUNTED LIGHTS AND POLE SITE FIXTURES SEE DETAIL ON THIS SHEET FOR CONTACTOR. CONTACTOR SHALL BE LOCATED IN ELECTRICAL ROOM NEAR PANEL. 2 SEE LIGHTING PLAN FOR BUILDING MOUNTED FIXTURES. 3 ELECTRICAL CONTRACTOR SHALL CORRIDNATE SITE LIGHTING FIXTURES PRIOR TO INSTALLING BASE WITH CIVIL CONTRACTOR. 4 FLAG POLE FLOOD LIGHTS (S3 FIXTURE) SHALL BE EVENLY SPACED AROUND THE FLAG POLE APPROXIMALY 4' AWAY FROM THE FLAG POLE.

KEYED NOTES

PROVIDE (2) #10, (1) #10 GND, IN 1" CONDUIT POWER TO SITE LIGHTING FIXTURES.

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. 3 PROVIDE 4" CONDUIT TO UTILITY SERVICE. SEE CIVIL PLAN FOR ROUTE. 4 PROVIDE 20' RTS POLE, AND POLE BASE. SEE DETAIL ON THIS SHEET FOR GROUNDING, WIRING, AND BASE DETAILS. 5 PROVIDE UTILITY APPROVED PAD FOR TRANSFORMER.

6 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 BUILDS.

#

FINISHED GRADE 90% COMPACTED BACKFILL PROVIDE RED WARNING TAPE 18" BELOW GRADE PLAN FOR SIZE. SAND FILL

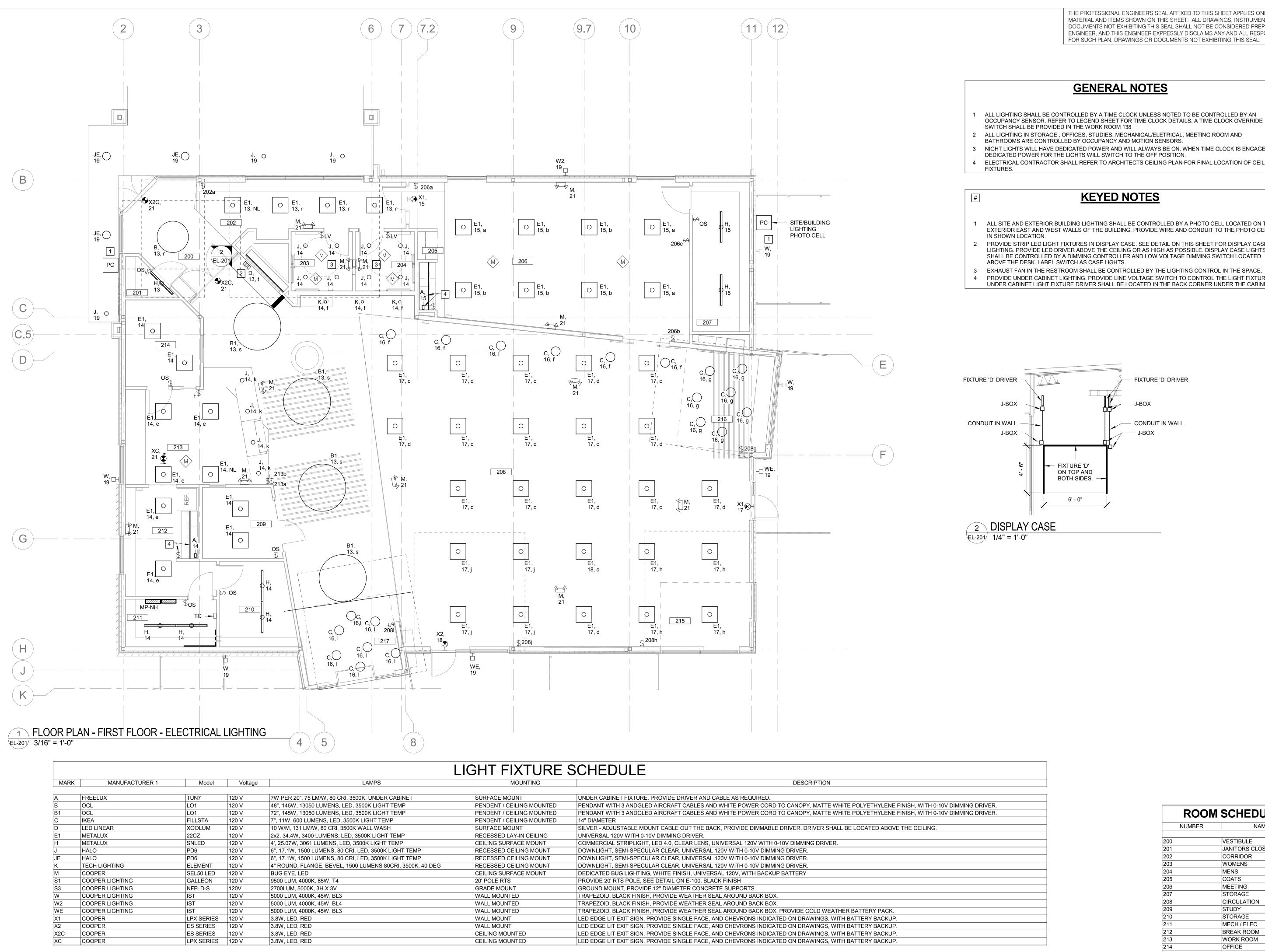
5 TRENCHING DETAIL E-100 N.T.S.

SITE LIGHTING CONTACTOR SCHEDULE

CIRCUITS	REMARKS	CONTROL CIRCUIT
AIN - 20/19	BUILDING LIGHTS EXTERIOR	PC-ON/ TC-OFF/ SWITCH - OVERRIDE ON

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

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ALPER AUDI, INC. 1804 BORMAN CIRCLE DRIVE ST. LOUIS, MO 63146 T (314) 432-8600 F (314) 807-2774 CONTACT: STEVE EHRETT E-MAIL: STEVE.EHRETT@ALPERAUDI.COM <u>MECHANICAL, ELECTRICAL, PLUMBING</u> BRIC PARTNERSHIP, LLC 343 S. KIRKWOOD ROAD, SUITE 204 KIRKWOOD, MO 63122 T (314) 725-5889 CONTACT: BRUCE COLEMAN E: BCOLEMAN@BRICPARTNERSHIP.COM
ENGINEER OF RECORD: PRELIMINARY NOT FOR CONSTRUCTION
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DRAWN BY: TLK PROJECT NUMBER: 16-1161.01 SHEET TITLE: SITE PLAN - ELECTRICAL F_100



SURFACE MOUNT	UNDER CABINET FIXTURE. PROVIDE DRIVER AND CABLE AS REQUIRED.
PENDENT / CEILING MOUNTED	PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER.
PENDENT / CEILING MOUNTED	PENDANT WITH 3 ANDGLED AIRCRAFT CABLES AND WHITE POWER CORD TO CANOPY, MATTE WHITE POLYETHYLENE FINISH, WITH 0-10V DIMMING DRIVER.
PENDENT / CEILING MOUNTED	14" DIAMETER
SURFACE MOUNT	SILVER - ADJUSTABLE MOUNT CABLE OUT THE BACK, PROVIDE DIMMABLE DRIVER. DRIVER SHALL BE LOCATED ABOVE THE CEILING.
RECESSED LAY-IN CEILING	UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
CEILING SURFACE MOUNT	COMMERCIAL STRIPLIGHT, LED 4.0, CLEAR LENS, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
RECESSED CEILING MOUNT	DOWNLIGHT, SEMI-SPECULAR CLEAR, UNIVERSAL 120V WITH 0-10V DIMMING DRIVER.
CEILING SURFACE MOUNT	DEDICATED BUG LIGHTING, WHITE FINISH, UNIVERSAL 120V, WITH BACKUP BATTERY
20' POLE RTS	PROVIDE 20' RTS POLE, SEE DETAIL ON E-100. BLACK FINISH
GRADE MOUNT	GROUND MOUNT, PROVIDE 12" DIAMETER CONCRETE SUPPORTS.
WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX.
WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX.
WALL MOUNTED	TRAPEZOID, BLACK FINISH, PROVIDE WEATHER SEAL AROUND BACK BOX. PROVIDE COLD WEATHER BATTERY PACK.
WALL MOUNT	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP.
WALL MOUNT	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP.
CEILING MOUNTED	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP.
CEILING MOUNTED	LED EDGE LIT EXIT SIGN. PROVIDE SINGLE FACE, AND CHEVRONS INDICATED ON DRAWINGS, WITH BATTERY BACKUP.

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

3 NIGHT LIGHTS WILL HAVE DEDICATED POWER AND WILL ALWAYS BE ON. WHEN TIME CLOCK IS ENGAGED

4 ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS CEILING PLAN FOR FINAL LOCATION OF CEILING

1 ALL SITE 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

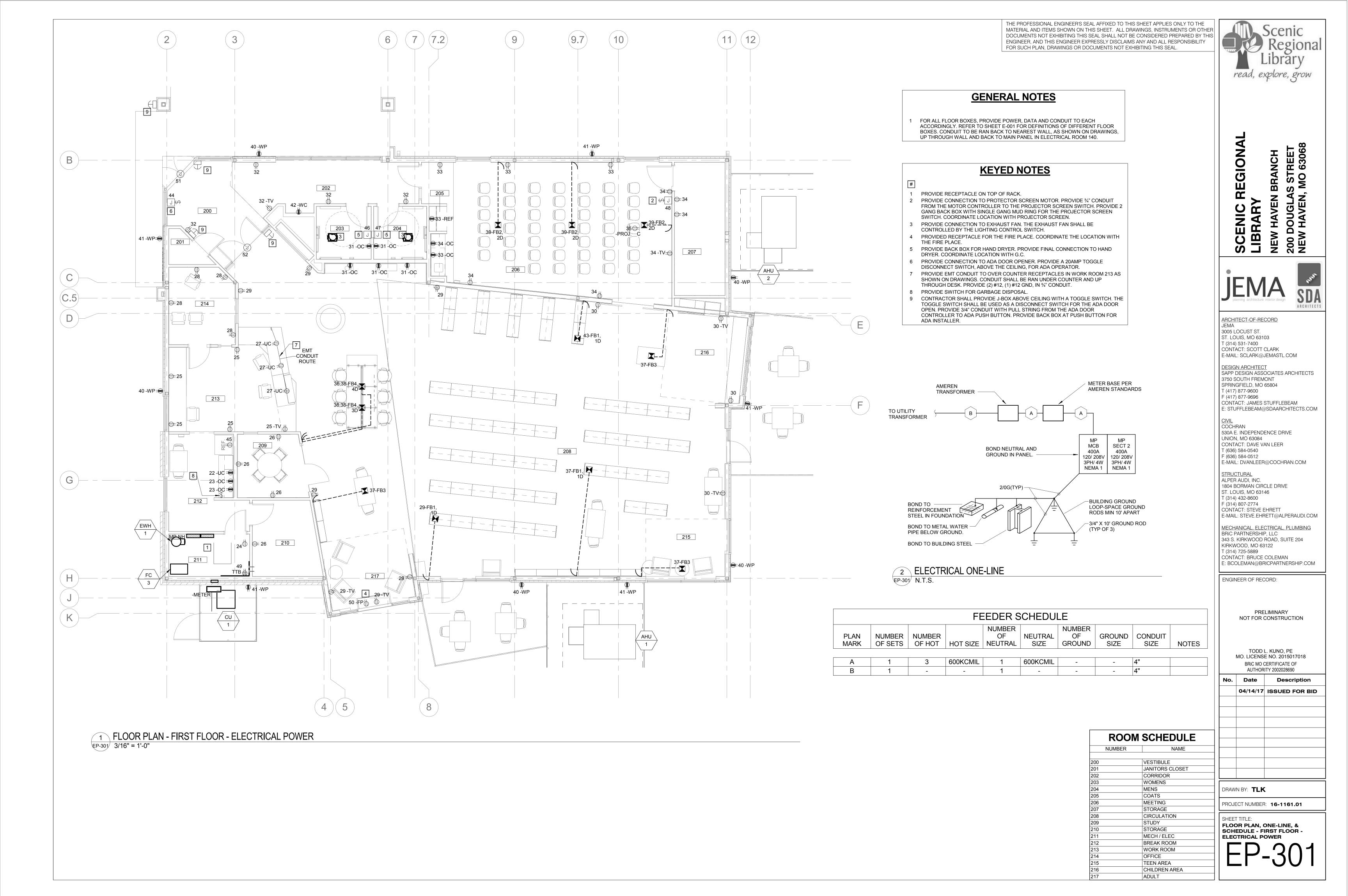
2 PROVIDE STRIP LED LIGHT FIXTURES IN DISPLAY CASE, SEE DETAIL ON THIS SHEET FOR DISPLAY CASE LIGHTING. PROVIDE LED DRIVER ABOVE THE CEILING OR AS HIGH AS POSSIBLE. DISPLAY CASE LIGHTS SHALL BE CONTROLLED BY A DIMMING CONTROLLER AND LOW VOLTAGE DIMMING SWITCH LOCATED

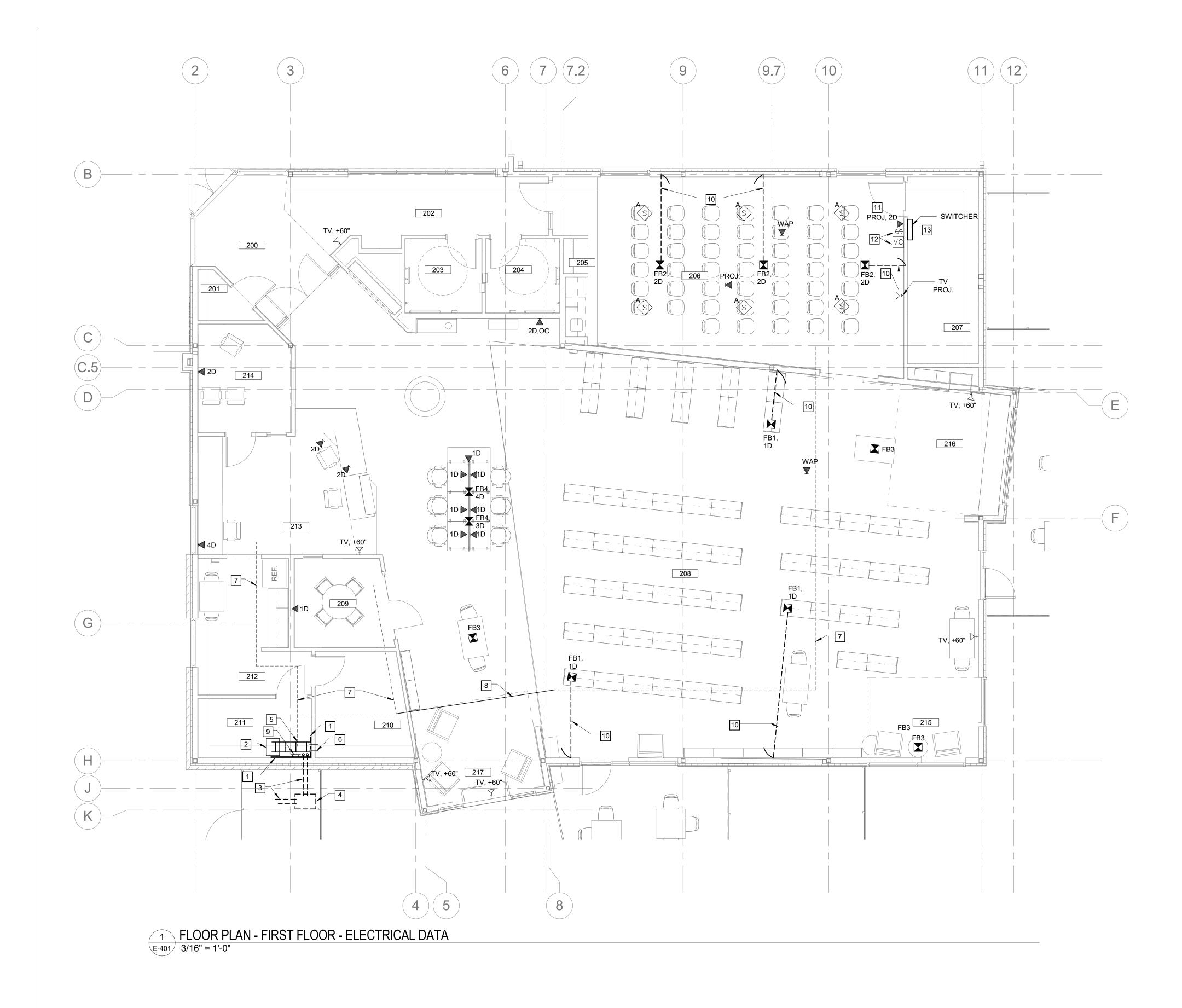
PROVIDE UNDER CABINET LIGHTING. PROVIDE LINE VOLTAGE SWITCH TO CONTROL THE LIGHT FIXTURE. UNDER CABINET LIGHT FIXTURE DRIVER SHALL BE LOCATED IN THE BACK CORNER UNDER THE CABINET.

ROOM SCHEDULE NUMBER NAME

NUMBER	NAME
200	VESTIBULE
201	JANITORS CLOSET
202	CORRIDOR
203	WOMENS
204	MENS
205	COATS
206	MEETING
207	STORAGE
208	CIRCULATION
209	STUDY
210	STORAGE
211	MECH / ELEC
212	BREAK ROOM
213	WORK ROOM
214	OFFICE
215	TEEN AREA
216	CHILDREN AREA
217	ADULT

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KEYED NOTES

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12

PROVIDE 3/4" PLYWOOD BACKBOARD FOR MOUNTING COMMUNICATIONS 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 HAVE THREE (3) 1U HORIZONTAL CABLE MANAGERS. MOUNT RACK WITH FRONT OF RACK FACING WEST.

PROVIDE TWO (2) 2" UTILITY DUCTS FOR COMMUNICATIONS AND DATA SERVICES. DUCTS SHALL STUB UP 12" ABOVE FLOOR WHERE SHOWN. ROUTE FROM ROOM #140 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 LADDER STYLE CABLE RUNWAY ABOVE RACK SIMILAR TO CHATSWORTH PRODUCTS #10250-712. MOUNT RUNWAY ANCHORED TO TOP OF RACK AND ATTACH TO WALL WITH MANUFACTURERS APPROVED BRACKETS AND HARDWARE.

PROVIDE ONE (1) 4" CONDUIT SLEEVE THROUGH WALL AT APPROX. 8" ABOVE LAY-IN CEILING HEIGHT OF ADJACENT SPACE. CONDUITS SHALL HAVE BUSHINGS ON ENDS AND FIRESTOP AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST HEIGHT AS NECESSARY 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 RETENSION CLIPS, PROVIDE QUANTITY AS REQUIRED. COORDINATE WITH OTHER TRADES AND ADJUST EXACT ROUTING AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE. ALL CABLING SHALL BE TRAINED, BUNDLED AND LASHED WITH RELEASABLE VELCRO STRAPS, NYLON CABLE TIES ARE NOT ACCEPTABLE. THE INTENT IS THAT THIS PATHWAY IS A MAIN ROUTING FOR MAJORITY OF CABLING, INDIVIDUAL DROPS AND BUNDLES OF LESS THAN SIX CABLES SHALL UTILIZE 2" J-HOOKS.

PROVIDE 4" CONDUIT SLEEVE ABOVE AREA OF DECORATIVE ARCHITECTURAL CEILING FEATURE. CONDUIT SHALL HAVE BUSHINGS ON ENDS. COORDINATE WITH OTHER TRADES AND ADJUST LOCATION AS REQUIRED TO PROVIDE ADEQUATE CLEARANCE. REFERENCE KEY NOTE #7 AND ALIGN WITH PATHWAY.

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 AWG 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.

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 #140 SUPPORTED BY J-HOOKS. 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. 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.



SHEET TITLE: FLOOR PLAN - FIRST FLOOR -ELECTRICAL DATA

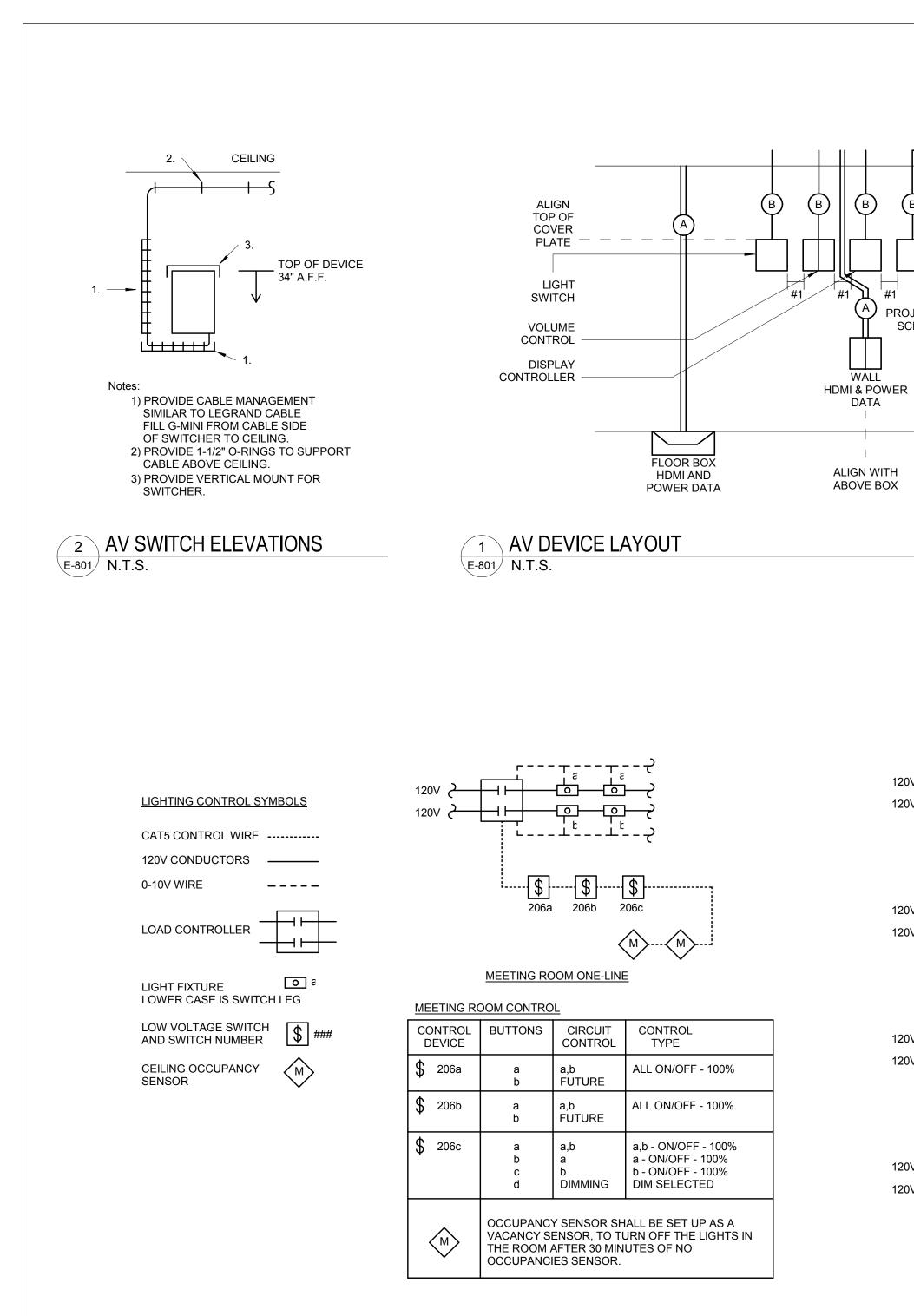


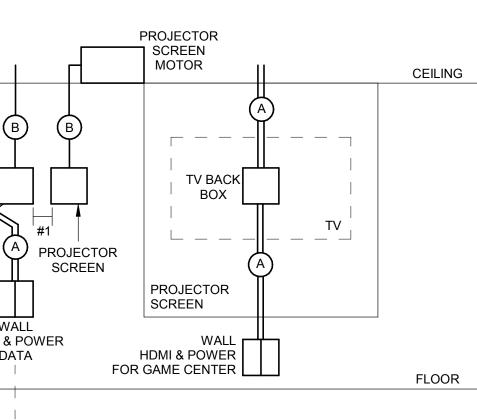
ROOM SCHEDULE

NUMBER

NAME

200	VESTIBULE
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202	CORRIDOR
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210	STORAGE
211	MECH / ELEC
212	BREAK ROOM
213	WORK ROOM
214	OFFICE
215	TEEN AREA
216	CHILDREN AREA
217	ADULT





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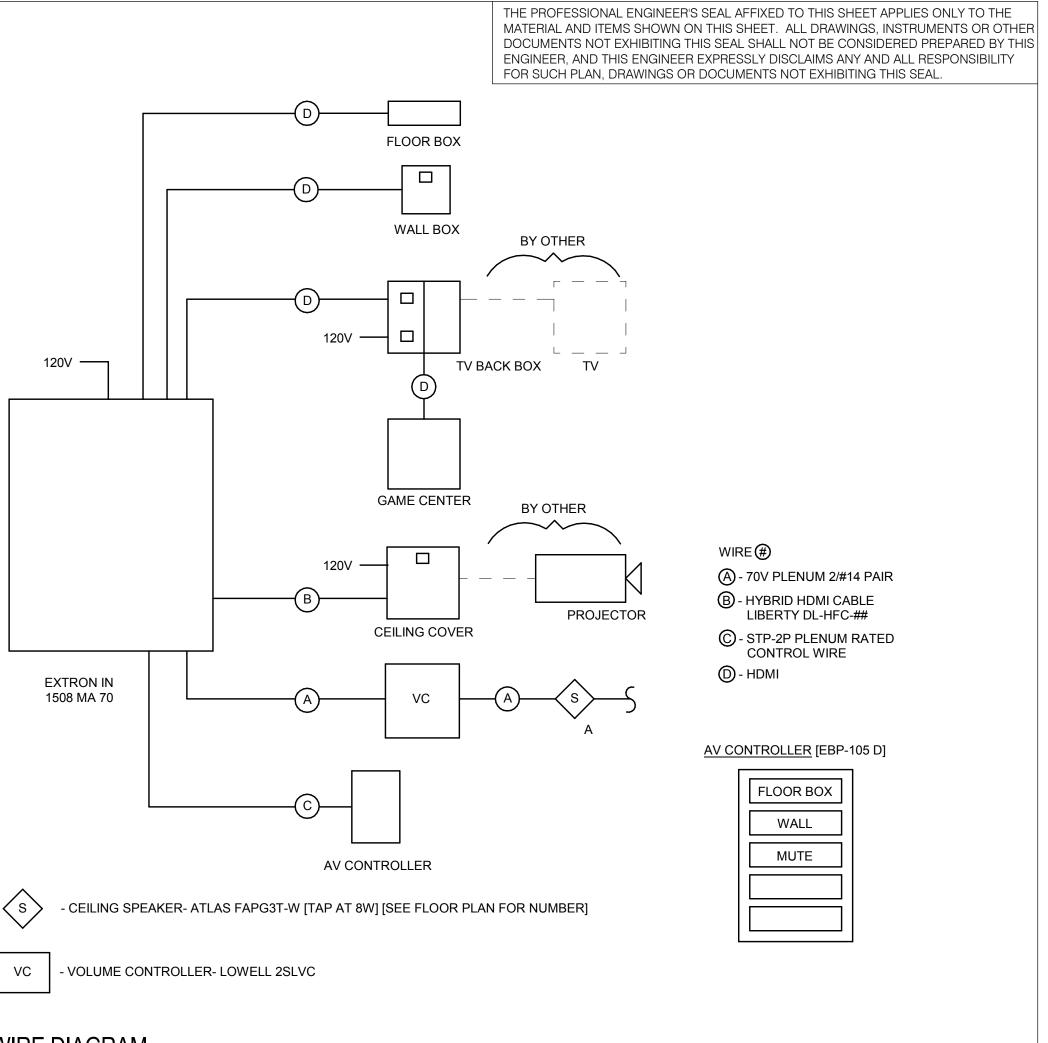
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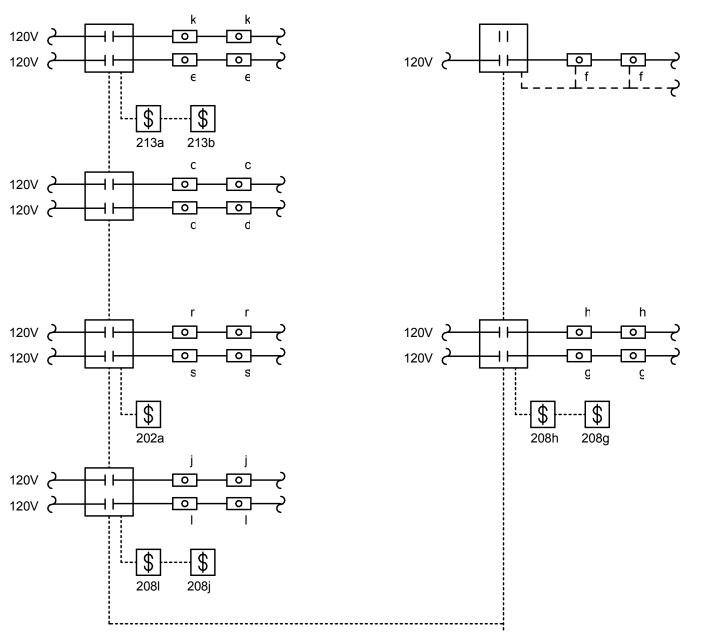
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NOTE	S:
#1)	SPACE BACK BOX SO THAT THERE IS 1" BETWEEN EACH COVER PLATE. PROVIDE THE REQUIRED BLOCKING TO MOUNT BOXES.
	CONDUIT SIZE

TYPE	POWER	TYPE
A	(1) 3/4"	(1)1- 1/4"
В	-	(1)3/4"
©	(1) 3/4"	-

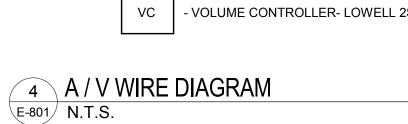






ETING ROOM CONTROL	

	CONTROL BUTTONS DEVICE		CIRCUIT CONTROL	CONTROL TYPE						
\$	202a	а	r, s, k, e	ON ONLY						
\$	213a	a b c d e	c,d,e,f,g,h,i,j,k,l,r,s d c s r	all - ON/OFF - 100% g - ON/OFF - 100% h - ON/OFF - 100% s - ON/OFF - 100% r - ON/OFF - 100%						
\$	213b	a b	k e	k - ON/OFF - 100% e - ON/OFF - 100%						
\$	208g	а	g	g - ON/OFF - 100%						
\$	208h	а	h	h - ON/OFF - 100%						
\$	208j	а	j	j - ON/OFF - 100%						
\$	2081	а	1	I - ON/OFF - 100%						
\$	t	a b	t DIMMER	t - ON/OFF - 100%\ DIM t SWITH LEG						
	ALL LIGHTS SHALL BE CONTROLLED WITH A TIME CLOCK. COORDINATE HOURS WITH OWNER.									



	SCENIC REGIONAL	LIBRARY	NEW HAVEN BRANCH	200 DOUGLAS STREET	NEW HAVEN, MO 63068	
j	Dianning a			gn	RAN SD ARCHIT	A A
JEMA 3005 ST. L0 T (314 CONT	, LOCUS DUIS, I 4) 531- FACT: S	MO 631 7400 SCOTT (03	L.COM	Л	
SAPP 3750 SPRIN T (417 F (417 CONT	DESIG SOUTH NGFIEL 7) 877-4 7) 877- 7) 877-	H FREM _D, MO 9600 9696 JAMES \$	OCIATES ONT 65804 STUFFLI	EBEAI	HITECTS M CTS.CC	
CIVIL COCH 530A UNIO CONT T (636 F (636	HRAN E. IND N, MO FACT: [5) 584- 5) 584-	EPEND 63084 DAVE V/ 0540 0512	ENCE D AN LEEF	RIVE		
<u>STRU</u> ALPE 1804 ST. L0 T (314 F (314	<u>CTUR/</u> R AUD BORM DUIS, I 4) 432- 4) 807-	AL I, INC. AN CIR(MO 631- 8600 2774	@COCH CLE DRI 46 EHRETT		COM	
MECH BRIC 343 S KIRKN T (314 CONT	<u>Hanic</u> Partn . Kirk Wood 1) 725- Fact: E	AL, ELE IERSHIF WOOD , MO 63 5889 3RUCE	CTRICAL P, LLC ROAD, S 122 COLEM	<u>., PLU</u> SUITE AN		
ENGI	NEER	OF REC	CORD:			
	NO		LIMINA		ION	
	В	LICENS	L. KUNC E NO. 2 CERTIFIC ITY 20020	01501 ATE O		
No.		ate 14/17			iption FOR BI	D

									MEC	CHAN	JICAL E	EQUIPI	MENT E	ELECT	RIC	AL C)ATA	SCHE	DULE			
PLAN MARK									STAF	TER					DISCON	INECT			CONTROL	DEVICE		
	DISCRIPTION / LOCATION	HORSEPOWER	APPARENT LOAD	VOLTAGE	PHASE	NEMA ENC TYPE	L. FURNISHED BY	INSTALLED BY	TYPE	NEMA TYPE	AUXILIARY CONTACTS	LOCATION	FURNISHED BY	INSTALLED BY	TYPE	SWITCH SIZE	FUSE SIZE	LOCATION	FURNISHED BY	WIRE BY	PANEL	FI
							[<u></u>	1	1		1											
	AIR HANDLER UNIT	-		208 V	3	NEMA 3R	EM	EM	-	-	-	-	EC	EC		60 AMP	NF	ON WALL	MC	MC	MAIN	(3)#6,(1)#10,1" C.
AHU 2	AIR HANDLER UNIT	-	11484 VA	208 V	3	NEMA 3R	EM	EM	-	-	-	-	EC	EC	NF	60 AMP	NF	ON WALL	MC	MC	MAIN	(3)#8,(1)#10,3/4" (
CU 1	CONDENSING	-	3931 VA	208 V	1	1	EM	EM	-	-	-	-	EC	EC	NF	30 AMP	NF	ON WALL	MC	MC	MAIN	(2)#8,(1)#10,3/4" (
EWH 1	WATER HEATER		5500 VA	208 V	3	1	-	-	-	-	-	-	EC	EC	NF	30 AMP	NF	ON WALL	MC	MC	MAIN	(3)#8,(1)#10,3/4" (
FC 3	AIR HANDLER UNIT		1140 VA	120 V	1	1	EM	EM	-	-	-	-	EC	EC	NF	TOGGLE	NF	ON WALL	MC	MC	MAIN	(2)#12,(1)#12G, 3

PANEL:MP-NHOC DEVICE TYPE: BREAKERLOCATION:MECH / ELEC 140DEVICE FAMILY: BOLT ONFED FROM:FED FROM:FED FROM:			ENCLO MOUN VOLTA	TING:	E: NEMA 1 SURFA 120/208	CE	Mains: Wiring	400 AM 3 PHAS			BUS S		400 A : NEXT STAND T: 16.8 K AIC CA	ARD RATING ABOVE CALC	
СКТ	DESCRIPTION	NOTES	OC	Р	ļ ,	Ą	E	3		C	Р	OC	NOTES	DESCRIPTION	СКТ
1	AHU-2		40 A	3	3828 VA	5484 VA					3	60 A		AHU-1	2
3							3828 VA	5484 VA							4
5									3828 VA	5484 VA					6
7	CU-1		30 A	2	1966 VA	1833 VA					3	30 A		EWH-1	8
9							1966 VA	1833 VA							10
11	FU-1		15 A	1					1140 VA	1833 VA					12
13	LTS CORRIDOR/ VESTIBULE		20 A	1	922 VA	796 VA					1	20 A		LTS CIR/OFFICE/WK RM/MECH & ELEC/ST	14
15	LIGHTS MEETING 146		20 A	1			360 VA	1200 VA			1	20 A		LTS CIRCULATION 143	16
17	LTS CIRCULATION 143		20 A	1					826 VA	34 VA	1	20 A		LTS CIRCULATION 143	18
19	LTS BUILDING		20 A	1	326 VA	307 VA					1	20 A		LTS SITE	20
21	EGRESS LIGHTING		20 A	1			51 VA	180 VA			1	20 A		REC BRK RM 139 REFRIGERATOR	22
23	REC BREAK ROOM KITCHEN		20 A	1					360 VA	180 VA	1	20 A		REC MECH / ELEC 140/ STORAGE	24
25	REC BREAK & WORK ROOMS		20 A	1	900 VA	720 VA					1	20 A		REC STUDY 142/ STORAGE	26
27	REC WORK ROOM COUNTER		20 A	1			540 VA	720 VA			1	20 A		REC OFFICE 137	28
29	REC CIRCULATION 143		20 A	1					1440 VA	720 VA	1	20 A		REC CIRCULATION 143	30
31	REC RESTROOM/ CIRCULATION COUNTER		20 A	1	900 VA	900 VA					1	20 A		REC CORRIDOR 135	32
33	REC MEETING 146		20 A	1			900 VA	1260 VA			1	20 A		REC MEETING 146	34
35	REC MEETING 146 PROJECTOR		20 A	1					180 VA	360 VA	2	20 A		REC CIRCULATION 143 FLOOR BOXES	36
37	REC CIRCULATION 143 FLOOR BOXES		20 A	1	1080 VA	360 VA									38
39	REC MEETING 146 FLOOR BOXES		20 A	1			1080 VA	900 VA			1	20 A		REC BUILDING	40
41	REC BUILDING		20 A	1					900 VA	180 VA	1	20 A		REC WATER COOLER	42
43	REC CIRCULATION 143		20 A	1	180 VA	1000 VA					1	20 A		ADA DOOR	44
45	REFRIGERATOR	GFI	20 A	1			180 VA	1000 VA			1	20 A		GEN MENS-1 144-1	46
47	GEN WOMENS 145		20 A	1					1000 VA	1000 VA	1	20 A		GEN MEETING 146	48
49	REC MECH / ELEC 140		20 A	1	360 VA	180 VA					1	20 A		FIRE PLACE REC	50
51	ADA DOOR		20 A	1			1200 VA	1200 VA			1	20 A		ADA DOOR	52
53	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	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
71	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	72
73	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	74
75	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	76
77	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	78
79	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	80
81	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	82
83	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	84
					2204	1 VA	2388	2 VA	1946	5 VA					
					18	7 A	202	2 A	16	2 A	1				

TOTAL CONNECTED LOAD: 65388 VA TOTAL DEMAND LOAD: 62558 VA

TOT

AL CONNECTED AMPS:	
TOTAL DEMAND AMPS:	174 A

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.

FEEDER SIZE / RACEWAY	REMARKS
1" C.	
3/4" C.	-
a.ua	
3/4" C.	
3/4" C.	
2G, 3/4" C.	

LEGEND

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 TS - TOGGLE SWITCH

