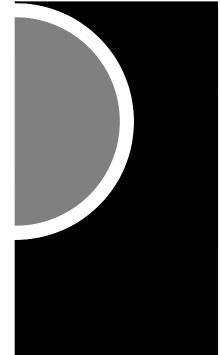
# **Recreation Authority of Roseville & Eastpointe**

# **Recreation Authority Center - Addition and Renovation**

18185 Sycamore Roseville, MI 48066

PARTNERS



# Architect:

PARTNERS in Architecture, PLC

65 Market Street Mount Clemens, MI 48043 (Phone) 586-469-3600 (Fax) 586-469-3607

Civil/Structural Engineer: Anderson, Eckstein & Westrick

> 51301 Schoenherr Rd. Shelby Twp., MI 48315 (Phone) 586-726-1234 (Fax) 586-726-8780

Owner:

Recreation Authority of Roseville & Eastpointe 18185 Sycamore Roseville, MI 48066

Mechanical / Electrical Engineer: MA Engineering

200 E. Brown Street Birmingham, MI 48009 (Phone) 248-258-1610 (Fax) 248-258-9538

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	Cover
Civil	
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C1-03	Construction Plan
C1-04	Striping & Geometrics Plan
C1-05	Soil Erosion Control Plan
Architectural	
A0-01	General Info
A0-02	Life Safety Plan / Code Information
A0-03	Opening Sched, Door & Frame Types
A0-04	Room Finish Sched, Wall Types & Door Details
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MD1-01	Demolition Floor Plan - Mechanical	
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E2-02	Floor Plan - Area 'B' - Power	
E3-01	Electrical Riser Diagram	

# PARTNERS



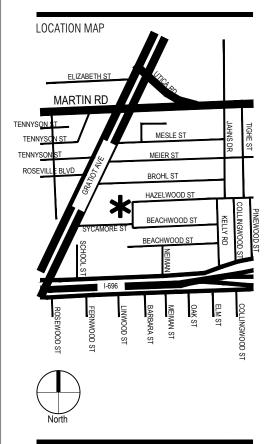
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F 586.469.3607

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OWNER (ADMINISTERED BY) Recreation Authority of Roseville & Eastpointe

#### PROJECT NAME

Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

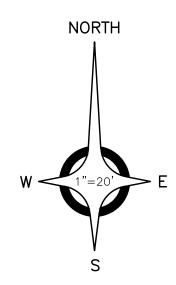
PROJECT NO.

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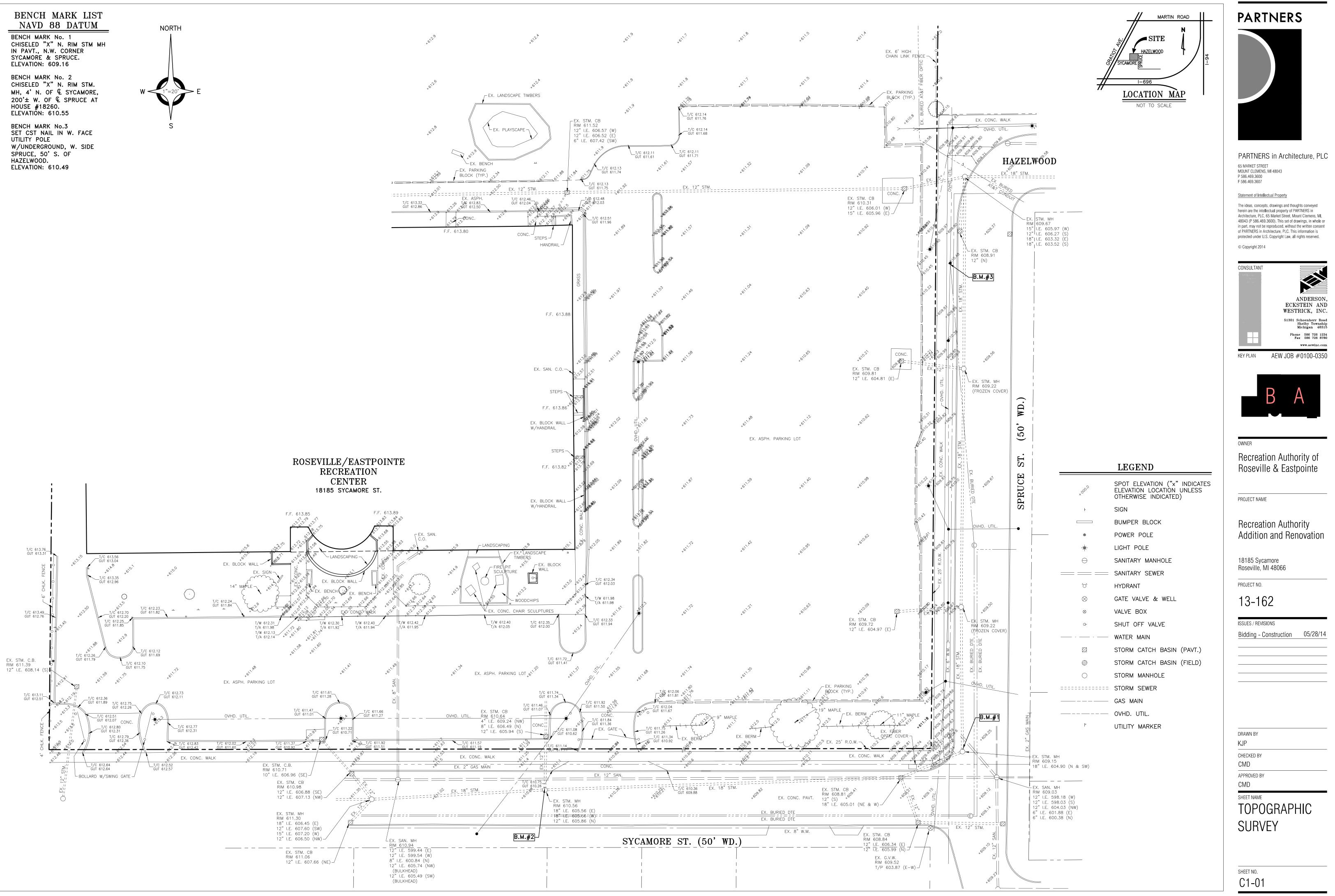
ISSUE DATE Bidding - Construction 05/28/14

Checked By: AS

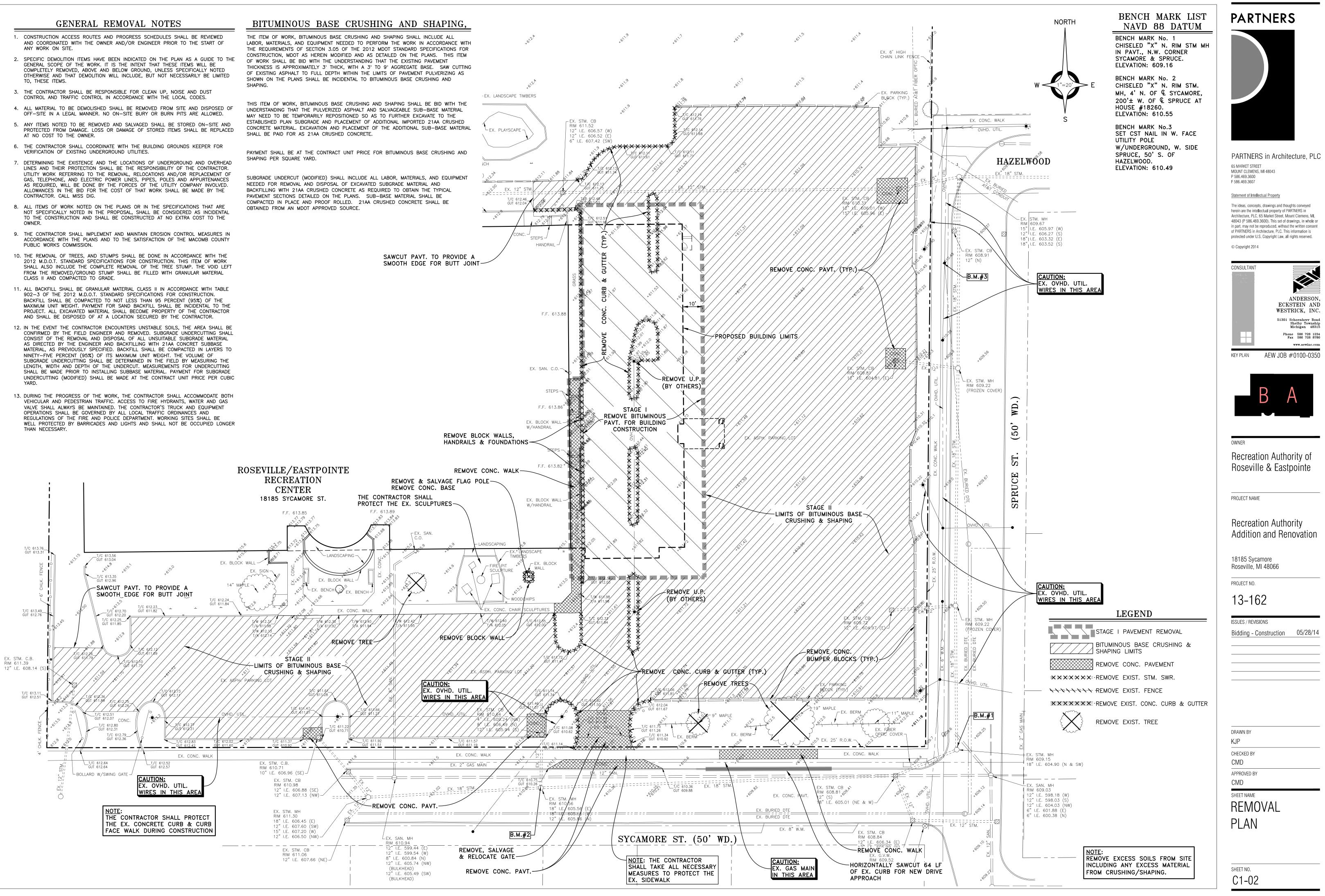
Approved By: DWG PROFESSIONAL SEAL

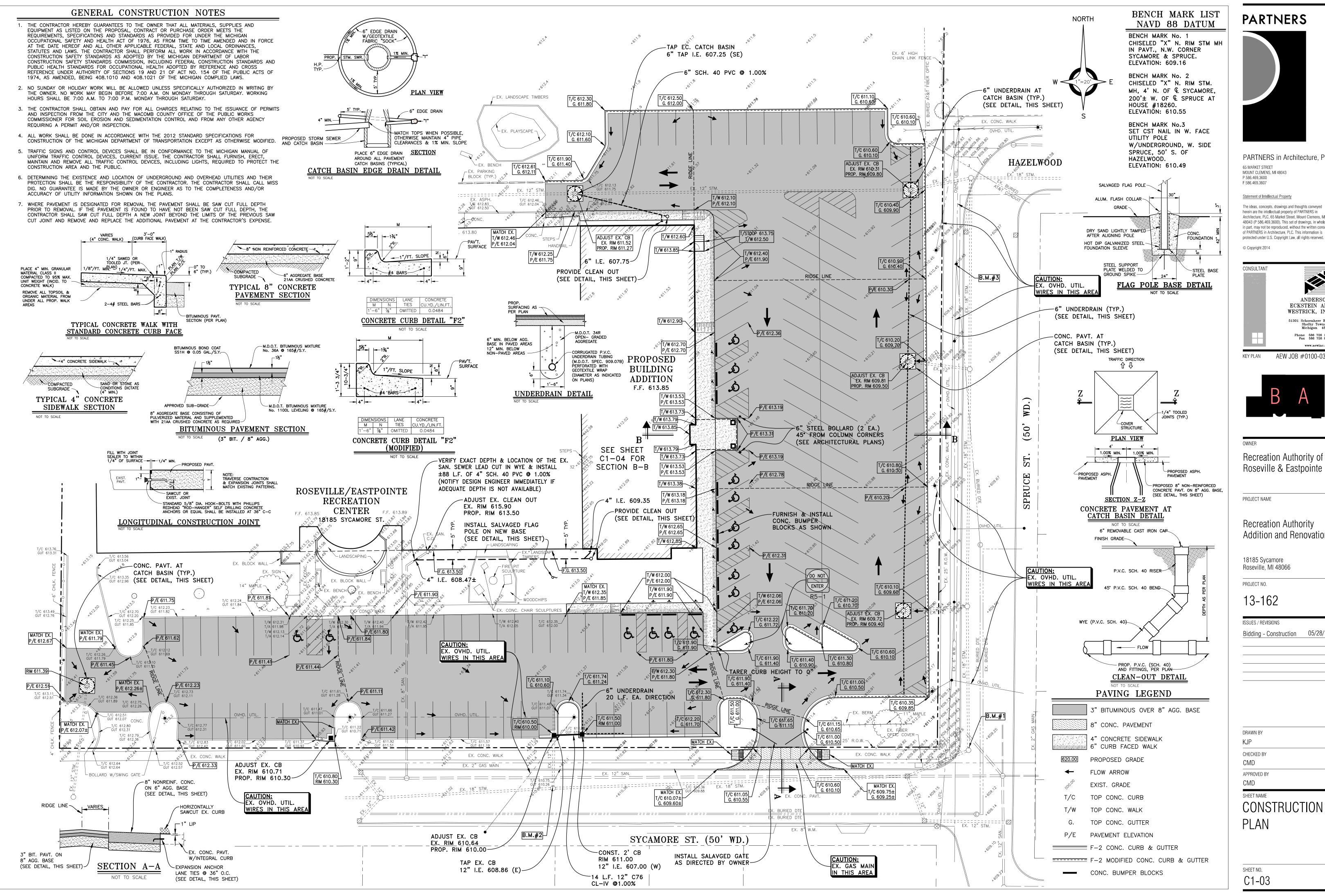


T/C 613.33\_ GUT 612.86



- ANY WORK ON SITE.
- GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS WILL BE COMPLETELY REMOVED, ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE AND THAT DEMOLITION WILL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THESE ITEMS.
- OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS ARE ALLOWED.
- AT NO COST TO THE OWNER.
- VERIFICATION OF EXISTING UNDERGROUND UTILITIES.
- LINES AND THEIR PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AS REQUIRED, WILL BE DONE BY THE FORCES OF THE UTILITY COMPANY INVOLVED. ALLOWANCES IN THE BID FOR THE COST OF THAT WORK SHALL BE MADE BY THE
- TO THE CONSTRUCTION AND SHALL BE CONSTRUCTED AT NO EXTRA COST TO THE OWNER.
- PUBLIC WORKS COMMISSION.
- 2012 M.D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION. THIS ITEM OF WORK SHALL ALSO INCLUDE THE COMPLETE REMOVAL OF THE TREE STUMP. THE VOID LEFT FROM THE REMOVED/GROUND STUMP SHALL BE FILLED WITH GRANULAR MATERIAL
- 902-3 OF THE 2012 M.D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION. BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT (95%) OF THE PROJECT. ALL EXCAVATED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A LOCATION SECURED BY THE CONTRACTOR.
- CONSIST OF THE REMOVAL AND DISPOSAL OF ALL UNSUITABLE SUBGRADE MATERIAL AS DIRECTED BY THE ENGINEER AND BACKFILLING WITH 21AA CONCRET SUBBASE MATERIAL, AS PREVIOUSLY SPECIFIED. BACKFILL SHALL BE COMPACTED IN LAYERS TO NINETY-FIVE PERCENT (95%) OF ITS MAXIMUM UNIT WEIGHT. THE VOLUME OF SUBGRADE UNDERCUTTING SHALL BE DETERMINED IN THE FIELD BY MEASURING THE LENGTH, WIDTH AND DEPTH OF THE UNDERCUT. MEASUREMENTS FOR UNDERCUTTING SHALL BE MADE PRIOR TO INSTALLING SUBBASE MATERIAL. PAYMENT FOR SUBGRADE YARD.
- VEHICULAR AND PEDESTRIAN TRAFFIC. ACCESS TO FIRE HYDRANTS, WATER AND GAS VALVE SHALL ALWAYS BE MAINTAINED. THE CONTRACTOR'S TRUCK AND EQUIPMENT OPERATIONS SHALL BE GOVERNED BY ALL LOCAL TRAFFIC ORDINANCES AND REGULATIONS OF THE FIRE AND POLICE DEPARTMENT. WORKING SITES SHALL BE THAN NECESSARY.



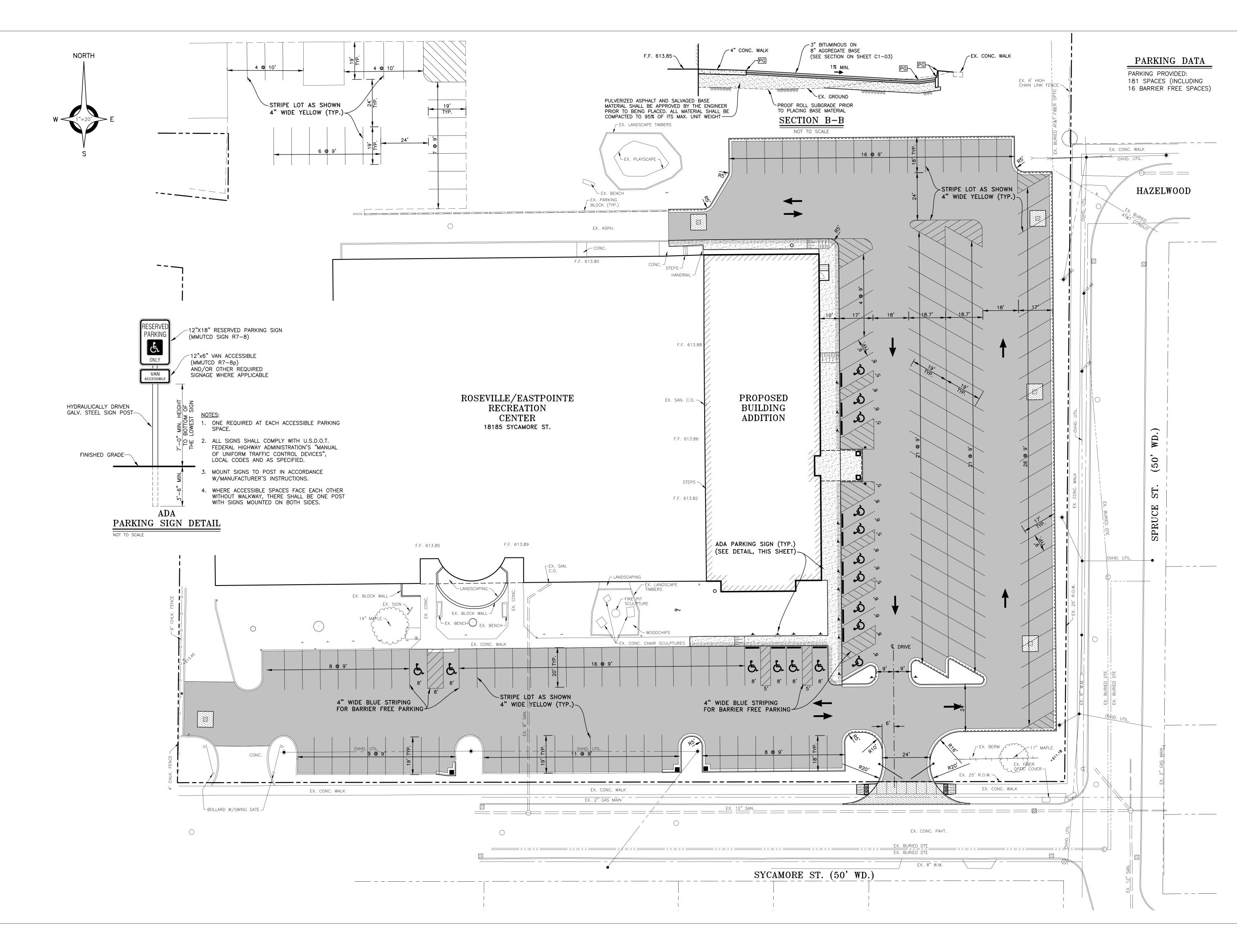


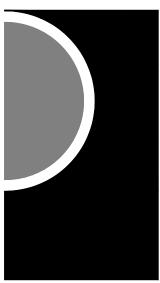
PARTNERS in Architecture, PLC

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ANDERSON ECKSTEIN AND WESTRICK, INC. 51301 Schoenherr Road Shelby Township Michigan 48315 Phone 586 726 1234 Fax 586 726 8780 www.aewinc.com AEW JOB #0100-0350

# Recreation Authority of Roseville & Eastpointe Addition and Renovation Bidding - Construction 05/28/14





PARTNERS in Architecture, PLC 65 MARKET STREET MOUNT CLEMENS, MI 48043 P 586.469.3600 F 586.469.3607

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OWNER

## Recreation Authority of Roseville & Eastpointe

PROJECT NAME

Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

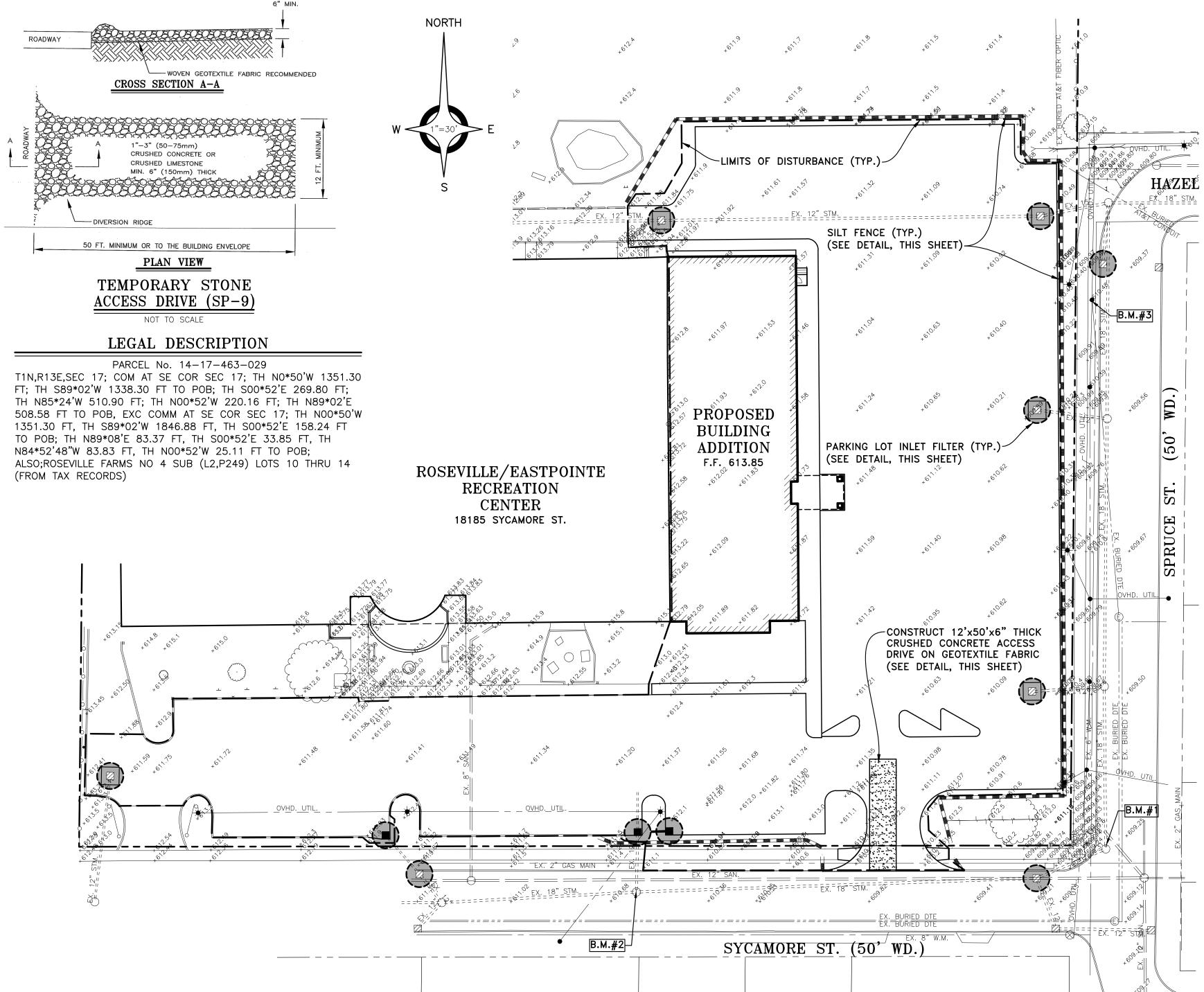
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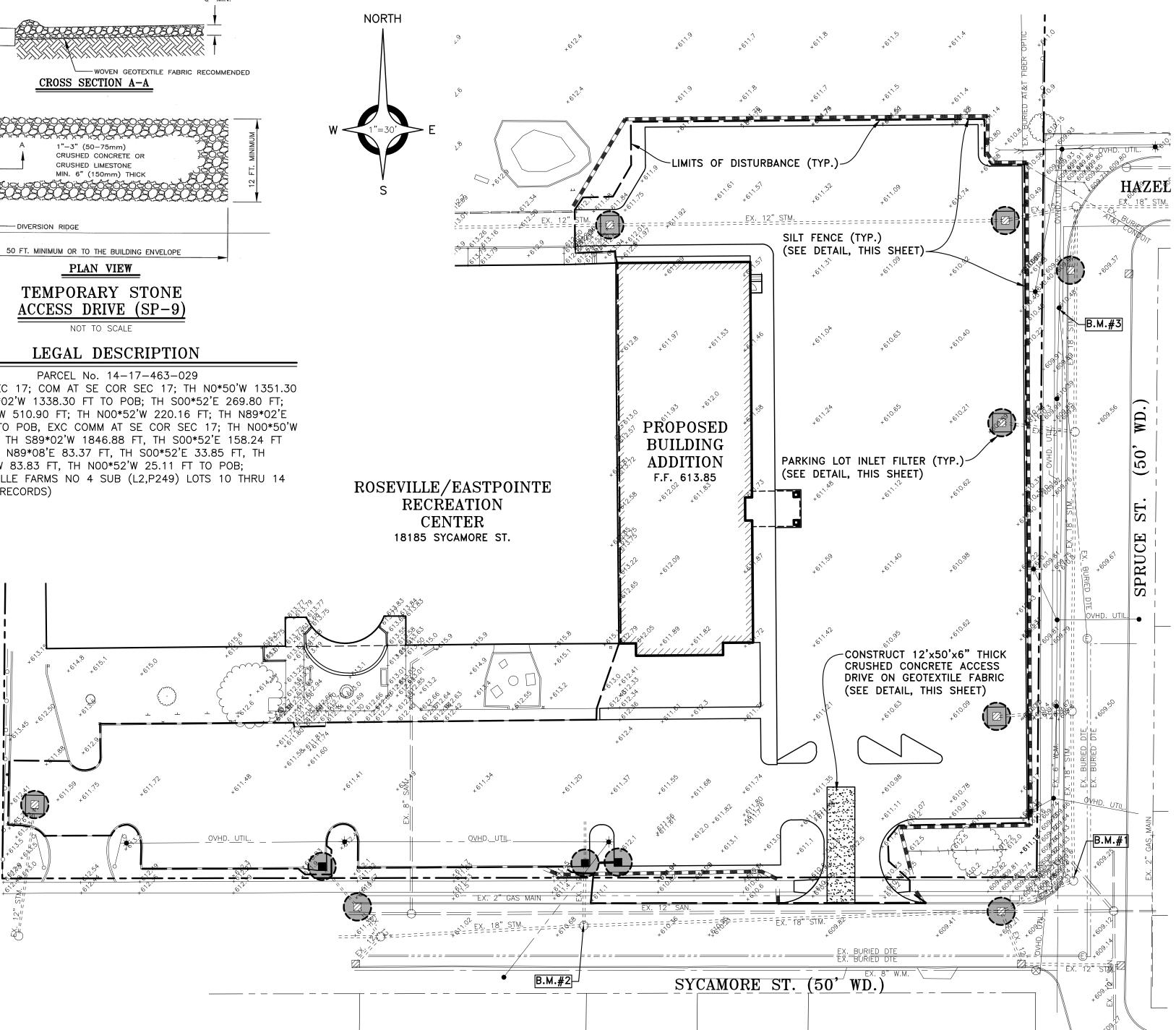
**ISSUES / REVISIONS** Bidding - Construction 05/28/14

DRAWN BY KJP \_\_\_\_\_ CHECKED BY CMD APPROVED BY CMD

SHEET NAME STRIPING & GEOMETRICS PLAN

SHEET NO. C1-04



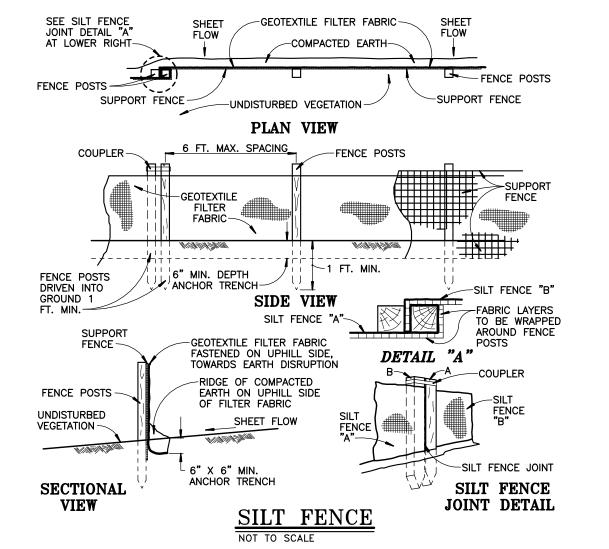


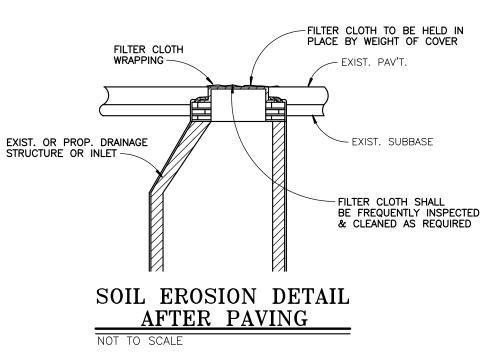
#### BENCH MARK LIST NAVD 88 DATUM

BENCH MARK No. 1 CHISELED "X" N. RIM STM MH IN PAVT., N.W. CORNER SYCAMORE & SPRUCE. ELEVATION: 609.16

BENCH MARK No. 2 CHISELED "X" N. RIM STM. MH, 4' N. OF € SYCAMORE, 200'± W. OF € SPRUCE AT HOUSE #18260. ELEVATION: 610.55

BENCH MARK No.3 SET CST NAIL IN W. FACE UTILITY POLE W/UNDERGROUND, W. SIDE SPRUCE, 50' S. OF HAZELWOOD. ELEVATION: 610.49





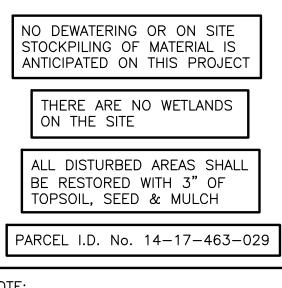
#### CONSTRUCTION SEQUENCE

	MAY	JUNE	JULY
INSTALL SILT FENCE	x		
REMOVE EX. PAVEMENT	x		
CONSTRUCT TEMP. ACCESS DRIVE	x		
INSTALL PARKING LOT INLET FILTERS	x		
CONSTRUCT CURBS & SIDEWALKS		x	
INSTALL PAVEMENT		x	
RESTORE ALL DISTURBED AREAS WITH 3" OF TOPSOIL, SEED & MULCH			х
REMOVE TEMPORARY SESC MEASURES			х

THE SOIL EROSION CONTACT PERSON SHALL BE PROVIDED WHEN THE CONTRACT IS AWARDED THE NEAREST WATERCOURSE IS THE 11½ RELIEF DRAIN LOCATED IN THE SYCAMORE STREET RIGHT OF WAY GROSS ACREAGE DISTURBED IS 1.75 ACRES SOILS INFORMATION AREA OF CONSTRUCTION Blount Ioam Sims clay loam Del Rey Ioam SOIL EROSION QUANTITIES

JILI FENGE	/J/ LF
INLET FILTER	11 EA
ACCESS DRIVE	1 EA

NO EARTHWORK IS TO BEGIN UNTIL A SOIL EROSION CONTROL PERMIT HAS BEEN ISSUED AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. FAILURE TO OBTAIN AN SESC PERMIT PRIOR TO DOING ANY EARTHWORK IS A VIOLATION OF PART 91 OF ACT 451 PA 1994.



THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. "THE SOIL EROSION AND SEDIMENT CONTROL ACT" AND THE MACOMB COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE

#### SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND MAINTENANCE NOTES

- 1. THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE MACOMB COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- 2. ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- 3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- 4. STAGING THE WORK WILL BE DONE BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.
- 5. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.
- 6. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- 7. IF ANY OF THE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE MACOMB COUNTY PUBLIC WORKS OFFICE SESC DIVISION HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE LANDOWNER.
- 8. INSTALL CRUSHED CONCRETE ACCESS DRIVE PLACED ON GEOTEXTILE FABRIC AS INDICATED ON THE PLAN. THE ACCESS DRIVE MUST BE A MINIMUM OF 30' X 50' X 8". A. NEW LAYERS OF CRUSHED CONCRETE WILL BE ADDED AS OLD LAYERS BECOME COMPACTED.
- 9. INSTALL SILT FENCE AS INDICATED ON THE PLAN AND AT ADDITIONAL AREAS AS NECESSARY. A. SILT FENCE SHALL BE INSTALLED PER DETAIL.
- B. BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
- C. IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
- D. SILT FENCE SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
- 10. INSTALL INLET FILTER ON ALL PAVEMENT CATCH BASINS PER DETAIL. A. INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS
- OF A RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT. B. BUILDUP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
- C. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 11. INSTALL DRAIN GUARD ON ALL YARD CATCH BASINS PER DETAIL. SEED OR SOD THE AREA BETWEEN THE SILT FENCE AND THE INLET.
- A. DRAIN GUARDS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL, AND DURING A PROLONGED RAIN EVENT.
- B. BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
- C. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
- 12. INLET SEDIMENT TRAPS AND ALL DITCH SEDIMENT TRAPS SHALL BE INSPECTED DAILY. THE SEDIMENT PITS SHALL BE CLEANED OUT WHEN HALF FULL, OR AS DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- 13. ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. IF THE STOCKPILE WILL BE ON SITE FOR MORE THAN 30 DAYS, THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE.
- 14. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMLY AT THE RATE OF 1-1/2 to 2 tons per acre or 100 pounds (2-3 BALES) PER 1000 SQUARE FEET. THIS MULCH SHOULD BE ANCHORED WITH DISC TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE. MULCH MATTING MAY BE USED IN LIEU OF LOOSE MULCH.
- 15. IF ANY DEWATERING IS NEEDED. IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE USED.
- 16. ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.
- 17. STREETS AND OR PARKING AREAS WILL BE SCRAPED ON A DAILY BASIS AND SWEPT AT A MINIMUM OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE.
- 18. DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL.
- 19. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGES ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- 20. FINAL GRADE, ESTABLISH VEGETATION, AND OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
- 21. REMOVE ALL TEMPORARY SOIL EROSION DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
- NAME OF & DISTANCE TO NEAREST WATERCOURSE:

THE NEAREST WATERCOURSE IS THE 11-1/2 RELIEF DRAIN LOCATED IN THE SYCAMORE STREET RIGHT OF WAY.

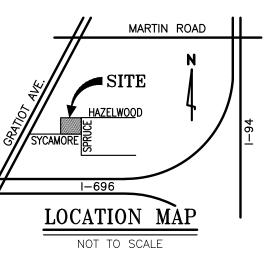
NAME(S) & PHONE NUMBER(S) FOR PERSON(S) RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY & PERMANENT SOIL EROSION CONTROL MEASURES: THE SOIL EROSION CONTACT PERSON SHALL BE PROVIDED WHEN THE CONTRACT IS AWARDED

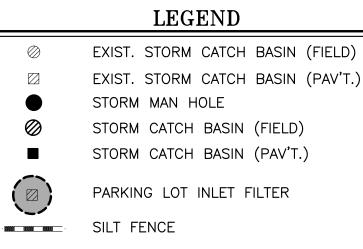
APPROXIMATE START DATE	MAY 2014	
APPROXIMATE COMPLETION DATE	JULY 2014	
TOTAL ACRES DISTURBED = _	1.75 ACRES	

I UNDERSTAND MY RESPONSIBILITY OUTLINED UNDER THESE GUIDELINES.

LANDOWNER'S SIGNATURE DATE

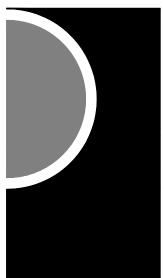
FAILURE TO COMPLY WITH THE SESC PLAN AND THESE GUIDELINES MAY RESULT IN ENFORCEMENT ACTION AGAINST THE LANDOWNER.





\_\_\_\_\_ LIMITS OF DISTURBANCE

# PARTNERS



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Shelby Township Michigan 48315 Phone 586 726 1234 Fax 586 726 8780 www.aewinc.com KEY PLAN AEW JOB #0100-0350



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PROJECT NAME

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18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

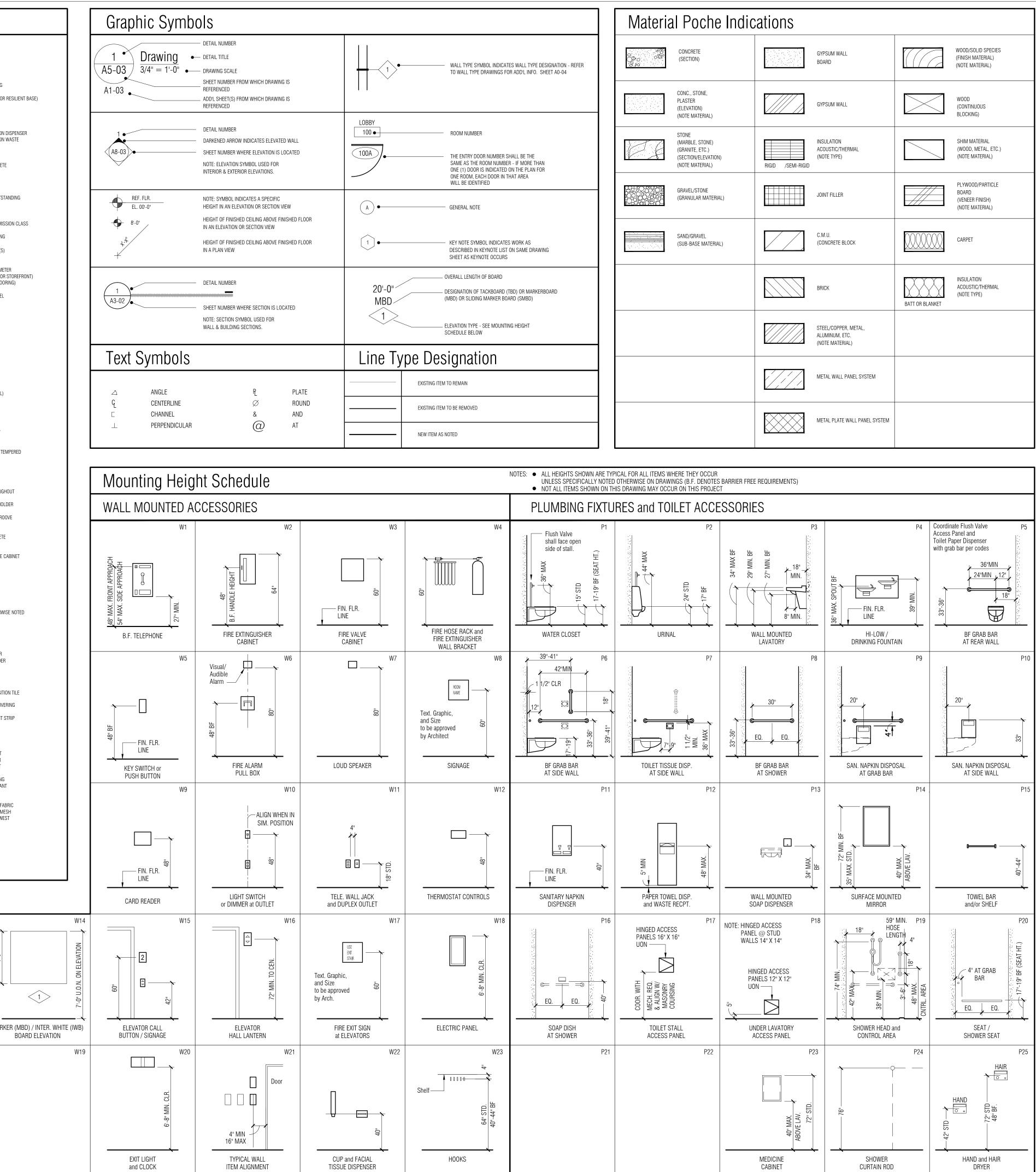
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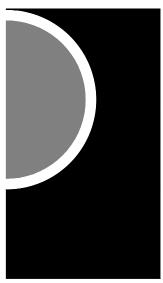
SHEET NAME SOIL EROSION CONTROL PLAN

SHEET NO. C1-05

A AFF ARF ACCT AP AC	ABOVE FINISHED FLOOR ABOVE REFERENCE FLOOR ACCENT	F FWP FB	FABRIC WRAPPED PANEL FACE BRICK	М мад мн	MAGNETIC MANHOLE	R (CONT.) RD RS	ROOF DRAIN ROOF SUMP
AP							
	ACCESS PANEL ACOUSTICAL	FOC FF FS	FACE OF CONCRETE FACTORY FINISH FAR SIDE	MFR MAR MAR T.	MANUFACTURE(R) MARBLE MARBLE THRESHOLD	RFG RM RO	roofing Room Rough opening
ACT ADD ADD'L	ACOUSTICAL TILE ADDENDUM ADDITIONAL	F° FT FIN	DEGREES FAHRENHEIT FEET/FOOT FINISH(ED)	MBD MAS	MARKER BOARD MASONRY	RUB RB	RUBBER RUBBER BASE (OR RESILIENT
ADJ AGG	ADJACENT AGGREGATE	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	MO MAT MAX	MASONRY OPENING MATERIAL(S) MAXIMUM	S	0.11 <b>7</b> .01
A/C ALT AL,ALUM	AIR CONDITIONING ALTERNATE OR ALTERNATIVE ALUMINUM	FVC FLD FHS	FIRE VALVE CABINET FIELD FIRE HOSE STATION	MECH MC MED	MECHANICAL MEDICINE CABINET MEDIUM	SAN SND SNWR	SANITARY SANITARY NAPKIN DISPENSE SANITARY NAPKIN WASTE
ANCH AB ANOD	ANCHOR, ANCHORAGE ANCHOR BOLT ANODIZED	FPR FL FD	FIRE PROOFING FLOOR(ING) FLOOR DRAIN	MEM MEMB MET	MEMBER MEMBRANE METAL	SCH SJ	RECEPTACLE SCHEDULE SCORED JOINT
ARCH ASPH AUTO	ARCHITECT(URAL) ASPHALT AUTOMATIC	FLUOR FTG FDN	FLUORESCENT FOOTING FOUNDATION	MDS ML MET T.	METAL DIVIDER STRIP METAL LATH METAL THRESHOLD	S.CONC SEAL SECT	SEALED CONCRETE SEALER SECTION
B		FA FSRS	FRESH AIR FULLY-ADHERED SHEFT ROOFING SYSTEM	MEZZ mm	MEZZANINE MILLIMETER(S)	SS SHT	SERVICE SINK SHEET
B.F. BP BP	BARRIER FREE BASE PLATE OR	FURR	FURR(ED), (ING)	MIN MIR MISC	MINIMUM MIRROR MISCELLANEOUS	SLO SIM SK	SHORT LEG OUTSTANDING SIMILAR SINK
BRG BM	BEARING P <sub>L</sub> BEARING	G ga	GAGE, GAUGE	MISC MON. MCC	MISCELLANEOUS IRON MONITOR(ED) MOTOR CONTROL CENTER	SB STC S	SOIL BORING SOUND TRANSMISSION CLAS SOUTH
BETW BIT	BENCH MARK OR BEAM BETWEEN BITUMINOUS	GAL GALV GL	GALLON GALVANIZED GLASS, GLAZING	MTD MULL	MOUNT(ED), (ING) MULLION	SPC SPK SPEC(S)	SPACER, SPACING SPEAKER SPECIFICATION(S)
BLKG BD BS	BLOCKING BOARD BOTH SIDES	GR g GRD	GRADE, GRADING GRAM GROUND	NI		SPEC'D SQ cm 2	SPECIFIED SQUARE SQUARE CENTIMETER
BOT BC BRK	BOTTOM BOTTOM OF CURB BRICK	GYP GYP BD GYP L	GYPSUM GYPSUM BOARD GYPSUM LATH	N NAT	NATURAL	SF	SQUARE FOOT (OR STOREFR (OR SPORTS FLOORING)
BLDG BL	Building Building Line	GP	GYPSUM PLASTER	NCA NEG NRC	NATURAL COLOR ANODIZED NEGATIVE NOISE REDUCTION	STAG SST STD	STAGGERED STAINLESS STEEL STANDARD
С		Н	HANDICAP(PED)	NONCOMB NOM	COEFFICIENT NONCOMBUSTIBLE NOMINAL	STA STL STN	STATION STEEL STONE
CABT CR CPT	CABINET CARD READER CARPET(ED)	HDBD HDWE	HARDBOARD HARDWARE	N NA	NORTH NOT APPLICABLE	STOR SD ST	STORAGE STORM DRAIN STREET
CES CI CIP	CARPET EDGE STRIP CAST IRON CAST-IN-PLACE	HWD HTG H&V	HARDWOOD HEATING HEATING & VENTILATING	NIC NTS NO (#)	NOT IN CONTRACT NOT TO SCALE NUMBER	STRUCT SA	STRUCTURAL SUPPLY AIR
CB CLG	CATCH BASIN CEILING	HVAC HT	HEATING/VENTILATION/ AIR CONDITIONING HEIGHT	0		SUPP SUSP SW	SUPPORTS SUSPENDED SWITCH
CEM C TO C CM	CEMENT CENTER TO CENTER CENTIMETER(S)	H H HP HS	HIGH HIGH HIGH STRENGTH	OFF	OFFICE	SWBD SWGR SYM	SWITCHBOARD SWITCHGEAR SYMMETRY(ICAL)
C° CER CT	DEGREES CENTIGRADE CERAMIC CERAMIC TILE	HC HM	HOLLOW CORE HOLLOW METAL	O/C OPG OPP	ON CENTER(S) OPENING OPPOSITE	Т	····· (······)
CHAN CHDK PL CL	CHANNEL CHECKERED PLATE CLEAR(ANCE)	HORIZ HP HB	HORIZONTAL HORSE POWER HOSE BIBB	OPP HD ORIG Oz	OPPOSITE HAND ORIGINAL OUNCE	ТКВ	TACKBOARD
CLOS CO	CLOSET CLEAN OUT	HW HWH HR	HOT WATER HOT WATER HEATER HOUR	OS OA OD	OUTSIDE OUTSIDE AIR	TP TEL TV	TANGENT POINT TELEPHONE TELEVISION
CHK CW COL	COAT HOOK COLD WATER COLUMN			OD OH	OUTSIDE DIAMETER OVERHEAD	TEMP TERR TT	TEMPERATURE, TEMPERED TERRAZZO TERRAZZO TILE
COMB COMP CONCE	COMBINATION COMPRESS(ED),(ION),(IBLE) CONCEALED	IN(") INCL	INCH(ES) INCLUDE(D), (ING)	Р		THERM THK THRES	THERMOSTAT THICK(NESS) THRESHOLD
CONC CMU	CONCRETE CONCRETE MASONRY UNIT	INFO ID INSUL	INFORMATION INSIDE DIMENSION INSULATE(D), (ION)	PH	PHYSICALLY HANDICAPPED	THRU TOIL TPH	THROUGH/THOUGHOUT TOILET TOILET PAPER HOLDER
CONN CONST	(CONCRETE BLOCK) CONNECTION CONSTRUCTION	ICA	INTEGRAL COLOR ANODIZED INTERIOR/INTERNAL	PT PR PNL	PORCELAIN TILE PAIR PANEL	TOL T&G	TOLERANCE TONGUE AND GROOVE
CONST JT CONT CONTR	CONSTRUCTION JOINT CONTINUOUS OR CONTINUE CONTRACT(OR)	INTERM INV	INTERMEDIATE	PTD PTD/R	PAPER TOWEL DISPENSER PAPER TOWEL DISPENSER & RECEPTACLE COMBINATION	T&B TE TOC	TOP & BOTTOM TOP ELEVATION TOP OF CONCRETE
CJ CORR CTR	CONTROL JOINT CORRUGATED OR CORRIDOR CENTER	IRR	IRRIGATION	PKG PBD PARTN	PARKING PARTICLE BOARD PARTITION	TC TOS TWC	TOP OF CURB TOP OF STEEL TOWEL & WASTE CABINET
CTSK CF CY	COUNTERSUNK CUBIC FOOT CUBIC YARD	JC	JANITOR'S CLOSET	PE PERM PLAS	PASSENGER ELEVATOR PERMANENT PLASTER	TRAN T TYP	TRANSFORMER TREAD TYPICAL
CYL	CYLINDER	JT JST JB	JOINT JOIST JUNCTION BOX	PLAM PL	PLASTIC LAMINATE PLATE	U	THINKL
D dpr	DAMPER	K		PLBG PLWD PNT	PLUMBING PLYWOOD PAINT(ED)	UH UON	UNIT HEATER UNLESS OTHERWISE NOTED
DP DL DEFS	DAMPROOFING DEAD LOAD DIRECT EXTERIOR FINISH SYSTEM	kg KV	KILOGRAMS KILOVOLT	POLYISO PVC Ib/#	POLYISOCYANURATE POLYVINYL CHLORIDE POUND(S)	UR	URINAL
DET DIAG Ø	DETAIL DIAGONAL DIAMETER	KVA KW KWH	KILOVOLT/AMPERE KILOWATT(S) KILOWATT-HOUR	PCF PPF PLF	POUNDS PER CUBIC FOOT POUNDS PER FOOT POUNDS PER LINEAL FOOT	V	VALVE
DIFF DIM	DIFFUSER DIMENSION	kg/m kg/cm <sup>2</sup>	KILOGRAM PER METER KILOGRAM PER SQUARE CENTIMETER	PSF PC	POUNDS PER SQUARE FOOT PRECAST CONCRETE	VB VR VAR	VAPOR BARRIER VAPOR RETARDER VARNISH
)/W )O )N	DISHWASHER DOOR OPENING DOWN	K KSI	KIPS KIPS PER SQUARE INCH	PRE-FAB PROP Q	PREFABRICATE(D) PROPOSED	VERT VEST	VERTICAL VESTIBULE
DT DWG DF	DRAIN TILE DRAWING DRINKING FOUNTAIN	KIT KO	KITCHEN KNOCKOUT	QT	QUARRY TILE	VIN VCT VT	VINYL VINYL COMPOSITION TILE VINYL TILE
Е		L		QB QTR	QUARRY TILE BASE QUARTER	VWC VIT VRS	VINYL WALL COVERING VITREOUS VINYL RESILIENT STRIP
EA EF EW	EACH EACH FACE EACH WAY	LAB LAM LAV	LABORATORY LAMINATE(D) LAVATORY	R		W	
e Elec Ewc	EAST ELECTRIC(AL) ELECTRIC WATER COOLER	LCC LH LHR	LEAD COATED COPPER LEFT HAND LEFT HAND REVERSE	RAD RC RECVG	RADIUS, RADIATOR, RADIATION RAINWATER CONDUCTOR RECEIVING	WAIN WHYD	WAINSCOT WALL HYDRANT
EL ELEV EMER	ELEVATION ELEVATOR EMERGENCY	L LT LTG	LENGTH LIGHT LIGHTING	REC REF REFL	RECESS(ED) REFERENCE REFLECT(ED), (IVE), (OR)	WH WC WM	WATER HEATER WATER CLOSET WATER MAIN
ENC EP	ENCLOS(E), (URE) EPOXY	LP LIN	LIGHTING PANEL LINEAR, LINEAL	REFR REG	REFRIGERATOR REGISTER	WP WR WS	WATERPROOFING WATER RESISTANT WATERSTOP
EQ EQUIP ESC	EQUAL EQUIPMENT ESCALATOR	LSWD LL LG	LINEAR SUSPENDED WOOD CEILING LIVE LOAD LONG	REINF REQD RESIL	REINFORCE(D), (ING) REQUIRED RESILIENT	WT WWF	WEIGHT WELDED WIRE FABRIC
EPDM EXH	ETHYLENE PROPYLENE DIENE MONOMERS EXHAUST	LLBB	LONG LEGS BACK TO BACK LONG LEG HORIZONTAL	RT RA REV	RESILIENT TILE RETURN AIR REVISION(S), REVISED	WWM W W/	Welded Wire Mesh Width, Wide, West With
EB EJ EXP CONST	EXPANSION BOLT EXPANSION JOINT EXPOSED CONSTRUCTION	LLO LLV LOC	LONG LEG OUTSTANDING LONG LEG VERTICAL LOCATE/LOCATION	RH RHR ROW	RIGHT HAND RIGHT HAND REVERSE RIGHT OF WAY	W/O WD	WITHOUT WOOD
EXT ETR	EXTERIOR EXISTING TO REMAIN	L.P. LV	LOW POINT LOW VOLTAGE	R Rd	RISER ROAD	Y	YARD
 	y Symbols Leger	nd					
	5/8" GYP BD ON 3 5/8" METAL STUD CONSTRUCTI			-			
	TO STRUCTURE ABOVE AT 48" O.C. MAX EACH WA	Y		-		<u> </u>	W13
	RELOCATED EXISTING 2' X 4' LAY-IN FLUORESCEN	T FIXTURE IN GRID		_		4'-0"	ELEVATION 4'-0"
<u>_</u> ┥	2' X 4' LAY-IN FLUORESCENT FIXTURE IN GRID			-			NO
	2' X 2' LAY-IN FLUORESCENT FIXTURE IN GRID			-			
Θ	CEILING OR WALL MOUNTED			-			
+00+	EXIT LIGHTS - CEILING & WALL MOUNTED			_		BOARD ELEVATION	BOA
	SPEAKER - CEILING AND WALL MOUNTED			-			
	SMOKE DETECTOR			-			
	SUPPLY AIR DIFFUSER (MECHANICAL)			-			
	RETURN AIR GRILLE (MECHANICAL)						
<u>→</u> •	SPRINKLER HEAD - CEILING AND WALL MOUNTED						



al Poche Indications				
CONCRETE (SECTION)		GYPSUM WALL BOARD		WOOD/SOLID SPECIES (FINISH MATERIAL) (NOTE MATERIAL)
CONC., STONE, PLASTER (ELEVATION) (NOTE MATERIAL)		GYPSUM WALL		WOOD (CONTINUOUS BLOCKING)
STONE (MARBLE, STONE) (GRANITE, ETC.) (SECTION/ELEVATION) (NOTE MATERIAL)	RIGID /SEMI-RIGID	INSULATION ACOUSTIC/THERMAL (NOTE TYPE)		SHIM MATERIAL (WOOD, METAL, ETC.) (NOTE MATERIAL)
GRAVEL/STONE (GRANULAR MATERIAL)		JOINT FILLER		PLYWOOD/PARTICLE BOARD (VENEER FINISH) (NOTE MATERIAL)
SAND/GRAVEL (SUB-BASE MATERIAL)		C.M.U. (CONCRETE BLOCK		CARPET
		BRICK	BATT OR BLANKET	INSULATION ACOUSTIC/THERMAL (NOTE TYPE)
		STEEL/COPPER, METAL, ALUMINUM, ETC. (NOTE MATERIAL)		
		METAL WALL PANEL SYSTEM		
		METAL PLATE WALL PANEL SYSTEM		



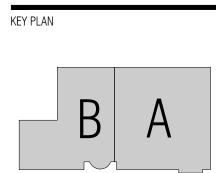
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CONSULTANT



OWNER Recreation Authority of Roseville & Eastpointe

PROJECT NAME

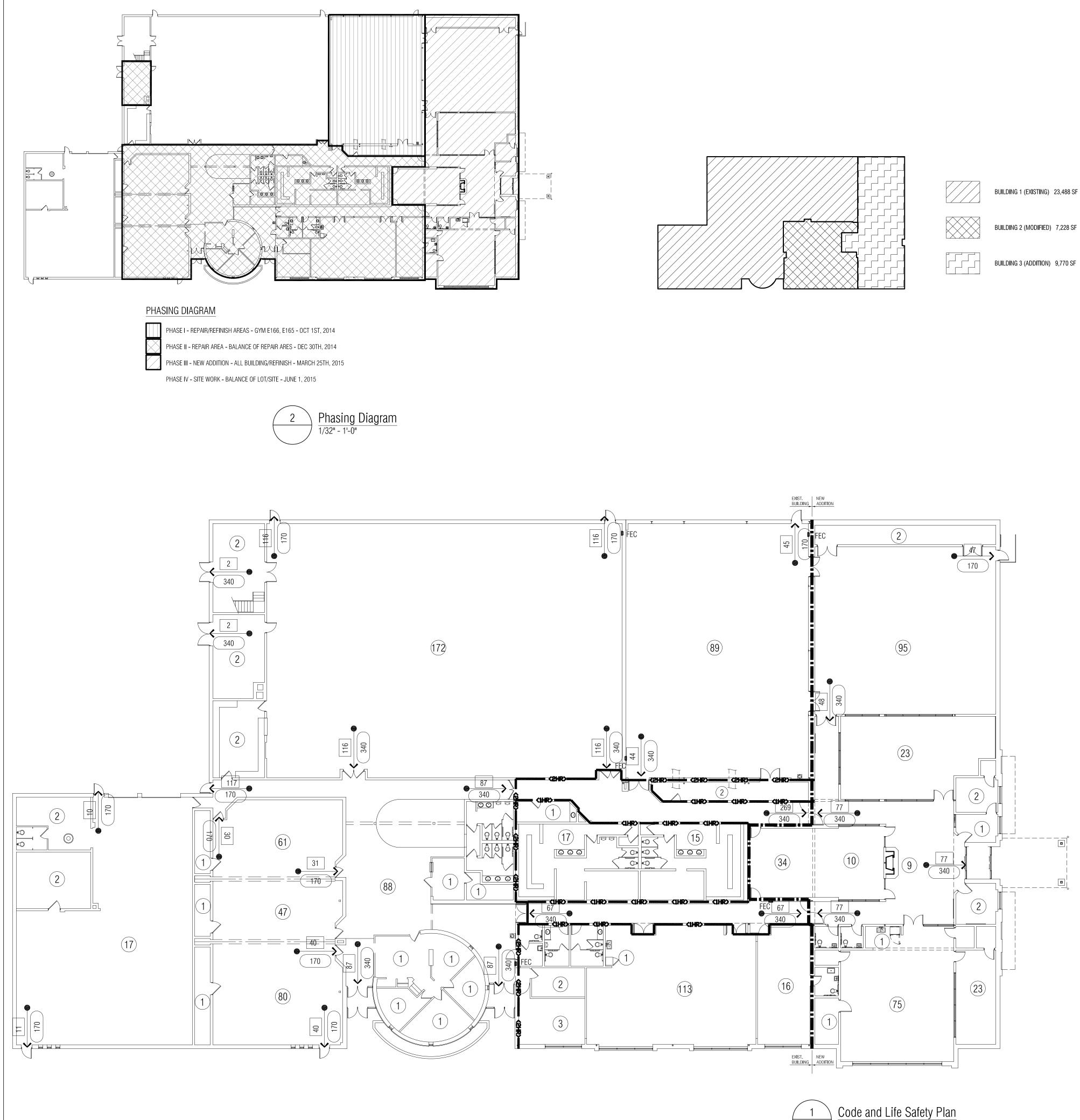
Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

**ISSUES / REVISIONS** Bidding - Construction 05/28/14

DRAWN BY FGM CHECKED BY ACS APPROVED BY DWG SHEET NAME GENERAL PROJECT INFORMATION



#### **NARRATIVE:**

THE BUILDING USE (ASSEMBLY) AND CONSTRUCTION TYPES (2B) AND (2B) ARE NOT CHANGING.

THE ORIGINAL BUILDING #1 IS A NON-COMPLIENT BUILDING BASED ON CONSTRUCTED AREA. INTERNAL SEPARATION CONSTRUCTION IS PRIMARILY 2HOUR AND I HOUR FIRE PARTITION CONSTRUCTION THAT COMPLIED WITH THE CONSTRUCTION CODE IN FORCE AT THAT TIME. THE CONSTRUCTION MODIFICATIONS PROPOSED ARE REPAIR / REPLACEMENT OF EXISTING EQUIPMENT AND FINISHES FOR THE SAME PURPOSES IN THE SAME CONFIGURATION. THE EXCEPTION IS THE REPLACEMENT OF THE EXISTING INTERIOR HOUSED MECHANICAL AIR HANDLERS WITH ROOF TOP HVAC UNITS. THIS INCLUDES REMOVAL OF THE EXISTING BOILER SYSTEM.

BUILDING #2 IS A PREVIOUS ADDITION THAT ADDED A GYMNASIUM SPACE T THE EXISTING BUILDING #1 AREA AND PROVIDED A 2HOUR FIRE WALL SEPARATION DIVIDING PORTIONS OF THE EXISTING BUILDING #1. THE ADDITION HAS A DETERIORATING FOUNDATION CONDITION THAT REQUIRES REMOVAL AND REPLACEMENT OF THE ADDITION FOUNDATIONS. PROPOSED MODIFICATIONS AND REPAIR TO EXISTING BUILDING #2 ARE SUBMITTED UNDER THE MICHIGAN BUILDING CODE CHAPTER 34 FOR EXISTING BUILDINGS 2009 AS A SINGLE SEPARATED ASSEMBLY USE, CONSTRUCTION TYPE 2B . THE REPAIRS AND MODIFICATION ARE INTENDED TO REPLACE OF THE EXISTING EQUIPMENT, CONSTRUCTION, AND FINISHES IN THE SAME CONFIGURATION FOR THE SAME PURPOSES. THE EXCEPTION IS THE MODIFICATIONS TO THE GAME ROOM A110. THIS AREA IS MODIFIED IN STRUCTURE AND ACCESS T BE INTEGRATED INTO THE NEW BUILDING ADDITION.

DOORS AT THE CORRIDOR EXTENSIONS. THE OPENINGS SERVE AS EXISTS FORM BOTH BUILDING #3 AND BUILDING #2. THE UPPER PANELS.

> - UL DESIGN N501 STEEL PROTECTION 2 HR - UL DESIGN U412 GYP BD PARTITION 2HR - UL DESIGN U905 8" BLOCK WALL 2HR

CODE PLA	AN SUMMARY
BUILDING 1	ORIGINAL CONSTRUCTION
	- SQUARE FOOT 23,488 SF SING - CONSTRUCTION TYPE (2C) UNP - PARTIAL FIRE SUPPRESSION SY REDUCTION IN SELECT MECHANI
BUILDING 2	Existing addition 1992
	- SQUARE FOOT 7,228 SF / 9,500 - CONSTRUCTION TYPE (2C) UNP - LIMITED FIRE SUPPRESSION AT
BUILDING 3	NEW ADDITION
	- SQUARE FOOT 9,770 / 12,635 A - CONSTRUCTION TYPE (2C) UNP - NO FIRE SUPPRESSION
BUILDING	CODE PLAN LE
	NEW (2) HOUR FIRE WALL CONS
	NEW (2) HOUR FIRE WALL CONS
	NEW (2) HOUR FIRE WALL CONS NEW (1) HOUR FIRE WALL CONS EXISTING (1) HOUR RATED FIRE F
	NEW (2) HOUR FIRE WALL CONS NEW (1) HOUR FIRE WALL CONS EXISTING (1) HOUR RATED FIRE E CONSTRUCTION DOCUMENT TO ( EXISTING (2) HOUR RATED PART
	NEW (2) HOUR FIRE WALL CONS NEW (1) HOUR FIRE WALL CONS EXISTING (1) HOUR RATED FIRE F CONSTRUCTION DOCUMENT TO EXISTING (2) HOUR RATED PART
<2HR>	NEW (2) HOUR FIRE WALL CONS NEW (1) HOUR FIRE WALL CONS EXISTING (1) HOUR RATED FIRE E CONSTRUCTION DOCUMENT TO ( EXISTING (2) HOUR RATED PART CONSTRUCTION DOCUMENTS (TO FIRE EXTINGUISHER CABINET

## OCCUPANT CAPACITY OF EGRESS COMPONENT OCCUPANT LOAD OF ROOM OR AREA

(#)

1/16" = 1'-0"

BUILDING 2 (MODIFIED) 7,228 SF

BUILDING 3 (ADDITION) 9,770 SF

#### **BUILDING CODE INFORMATION**

#### THE EXISTING ORIGINAL BUILDING AND PREVIOUS ADDITION WERE CONSTRUCTED, REVIEWED, AND APPROVED UNDER PREVIOUS CODES.

BUILDING #3 IS A NEW ADDITION FULLY SEPARATED WITH A DUAL FIRE WALL ASSEMBLY EQUIPPED WITH DOUBLE EGRESS SELF-CLOSING FIRE STEPPED FIRE WALL AT THE CLERESTORY AREA INCLUDES 2 HOUR FIRE RATED GLAZED OPENING WHEN TESTED AS A WALL. THE STEPPED FIRE WALL CONDITION AT THE HIGH ROOF AREA ADJACENT TO THE EXISTING REPAIRED GYMNASIUM INCLUDES AN INTERNAL FIRE WALL ASSEMBLY WITH REINSTALLATION OF THE EXISTING METAL ACOUSTICAL FINISH

UL FIRE RATED ASSEMBLIES UTILIZED IN THE CONSTRUCTION INCLUDE: - UL DESIGN U529 SHAFT WALL ASSEMBLY 2 HR - UL DESIGN U432 GYP BD PARTITION 1 HR (CORRIDOR) - UL DESIGN U635 METAL SIDING WALL 2 HR (EXT WALL)

- UL DESIGN U906 6" BLOCK WALL 2HR

NGLE STORY W/ MEZZANINE. IPROTECTED SYSTEM FOR ROOM RATING NICAL AND STORAGE SPACES.

00 AVAILABLE IPROTECTED AT MECH AND STORAGE AREAS

5 ALLOWABLE W/ FRONTAGE INCREASE IPROTECTED

## EGEND

STRUCTION SEPARATION STRUCTION SEPARATION

BARRIER PER EXIST. ) (remain)

TITION FOR EXISTING (TO REMAIN)

ROUGH EGRESS COMPONENT

OWNER:	RECREATION AUTHORITY OF ROSEVILLE AND EAST POINTE
PROJECT:	RECREATION AUTHORITY CENTER - ADDITION AND RENOVATION
ADDRESS:	18185 SYCAMORE, ROSEVILLE MI 48066

PROPOSED USE: ASSEMBLY A3

#### GOVERNING CODE:

MECHANICAL PLUMBING	2009 MICHIGAN BUILDING CODE (primary code) 2009 MICHIGAN MECHANICAL CODE 2009 MICHIGAN PLUMBING CODE
ELECTRICAL:	2006 NATIONAL ELECTRICAL CODE
ACCESSIBILITY:	2009 MBC CHAPTER 11 AND ICC/ANSI A117.1-1998

#### CLASSIFICATION OF OCCUPANCY (MBC CHAPTER 3) :

BUILDING	#1 EXISTING :	GROUP A-3 - ASSEMBLY
BUILDING	#2 RENOVATION:	GROUP A-3 - ASSEMBLY
BUILDING	#3 ADDITION:	GROUP A-3 - ASSEMBLY

#### SEPARATION OF BUILDING AREAS (MBC CHAPTER MBC 503.1.2:

- INDIVIDUAL BUILDINGS ARE CONSTRUCTED AS INDIVIDUAL STRUCTURES ON THE SAME LOT SEPARATED BY FIRE WALLS. - BUILDING #1 IS SEPARATED FROM BUILDING #2 BY A CALLED 2 HOUR FIRE WALL CONSTRUCTED AND APPROVED UNDER A PREVIOUS CODE.
- BUILDING #1 AND #2 ARE SEPARATED FROM BUILDING #3 BY A NEW DUAL 2HOUR FIRE WALL CONSTRUCTION PER MBC 706 WITH MODIFICATION OF EXITING CONSTRUCTION FOR COMPLACENCE WITH THE CURRENT CODE.

#### SEPARATION OF INCIDENTAL ACCESSORY OCCUPANCIES

- SEPARATION OF EXISTING INCIDENTAL USE AREAS HAVE BEEN IN ACCORDANCE WITH PREVIOUS CODES. PARTIAL FIRE SUPPRESSION HAS BEEN UTILIZED IN SELECT AREAS TO COMPLY WITH ROOM SEPARATION REQUIREMENTS.

#### ALLOWABLE BUILDING HEIGHTS AND AREAS (MBC TABLE 503):

- BUILDING #1 ORIGINAL BUILDING 1980 PER MBC TABLE 503:
- USE GROUP A-3
- CONSTRUCTION TYPE IIB
- AREA OF 9,500 SF PER FLOOR W/ INCREASE FOR OPEN PERIMETER A HEIGHT OF 2 STORIES
- EXISTING BUILDING AREA NON -COMPLIANT 23,488 SF (UNALTERED)
- BUILDING #2 EXISTING ADDITION 1992 ALLOWABLE PER MBC TABLE 503:
- USE GROUP A-3 CONSTRUCTION TYPE IIB
- AREA OF 9,500 SF PER FLOOR (At)
- A HEIGHT OF 2 STORIES • EXISTING BUILDING AREA 7,228 SF (MODIFIED)
- BUILDING #3 NEW ADDITION ALLOWABLE PER MBC TABLE 503:
- USE GROUP A-3
- CONSTRUCTION TYPE IIB AREA OF 9,500 SF PER FLOOR (At)
- A HEIGHT OF 2 STORIES

#### BUILDING #3 AREA MODIFICATIONS (MBC SECTION 506):

- AREA MODIFICATION FOR FRONTAGE PER MBC 506.1:  $Aa = At + [At \times If] + [At \times (If)]$ Aa=9,500 + [9,500 x 32.9 %] + [9,500 x 0%] Aa=12626 SF
- FRONTAGE INCREASE PER MBC 506.2:

If = 32.9 %

ACTUAL AREA:

- lf = 100 [F / P 0.25] W / 30  $F = 484 \, FT$
- P = 280 FTlf = 100 [280 / 484 X - 0.25] 30 / 30

BUILDING #3 ADDITION ALLOWABLE PER MBC TABLE 503

ALLOWABLE AREA w/ area increase 12626 SF

#### **MBC CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES**

MBC 706.1 EXISTING PARTY WALL WAS CONSTRUCTED AND APPROVED UNDER PREVIOUS CODE AND REMAINS UNALTERED AT BUILDING #1 AND BUILDING #2 SEPARATION UNDER THE PROVISIONS OF CHAPTER 34.

9770 SF

MBC 706.1 SEPARATION OF NEW ADDITION BUILDING #3 IS CONSTRUCTED PER 706.4 a. MBC 706.5.2 AND 706.6.3 APPLY IN LOW ROOF TO LOW ROOF LOCATIONS. MBC 706.6.1 APPLY AT THE HIGH TO LOW ROOF LOCATIONS. MBC 709 FIRE BARRIER CONSTRUCTION APPLIES FOR CORRIDOR AND PASSAGE WALL CONSTRUCTION.

#### MBC CHAPTER 10 MEANS OF EGRESS

OCCUPANT LOADS WERE CALCULATED BASED ON THE FOLLOWING ALLOWANCES.

#### PER MBC TABLE 1004.1.1

- ASSEMBLY (UNCONCENTRATED): 1 OCC PER 15 SF - DAY CARE : 1 OCC PER 35 SF - OFFICES: 1 OCC PER 100 SF - EXERCISE: 1 OCC PER 50 SF - LOCKER ROOM: 1 OCC PER 50 SF - STORAGE: 1 OCC PER 300 SF
- MECHANICAL SPACES: 1 OCC PER 300 SF

MBC 1016 EXIST ACCESS TRAVEL DISTANCE: 200 FT NON SPRINKLERED

MBC 1018 CORRIDORS:

- PER 1018.1 I HOUR RATED PARTITION W/ 45MIN OPENING PROTECTIVE.
- PER 1018.4 DEAD END CORRIDORS DO NOT EXCEED 20 FEET.
- PER 1021 MINIMUM NUMBER OF EXITS IS 2 FOR ENTIRE BUILDING IN ACCORDANCE WITH TBL 1021.1. NUMBER OF EXISTS PROVIDED IS 3.

#### MBC CHAPTER 34 CLASSIFICATION OF WORK:

SECTION 3404.1 ALTERATIONS: ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION. U.N.O.

SECTION 3405.1 REPAIRS: THE EXISTING BUILDING HAS A DETERIORATING FOUNDATION CONDITION BEING REPAIRED WITH SIMILAR MATERIALS AND CONSTRUCTION TO MATCH THE EXISTING CONSTRUCTION / MATERIALS . REPAIRS HAVE BEEN DESIGNED TO MEET THE NEW CODE PROVISIONS.

# PARTNERS



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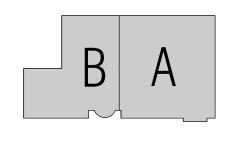
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KEY PLAN



#### OWNER

### Recreation Authority of Roseville & Eastpointe

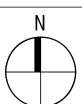
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#### Authority d Renovation

PROJECT NO.

13-162

**ISSUES / REVISIONS** Bidding - Construction 05/28/14



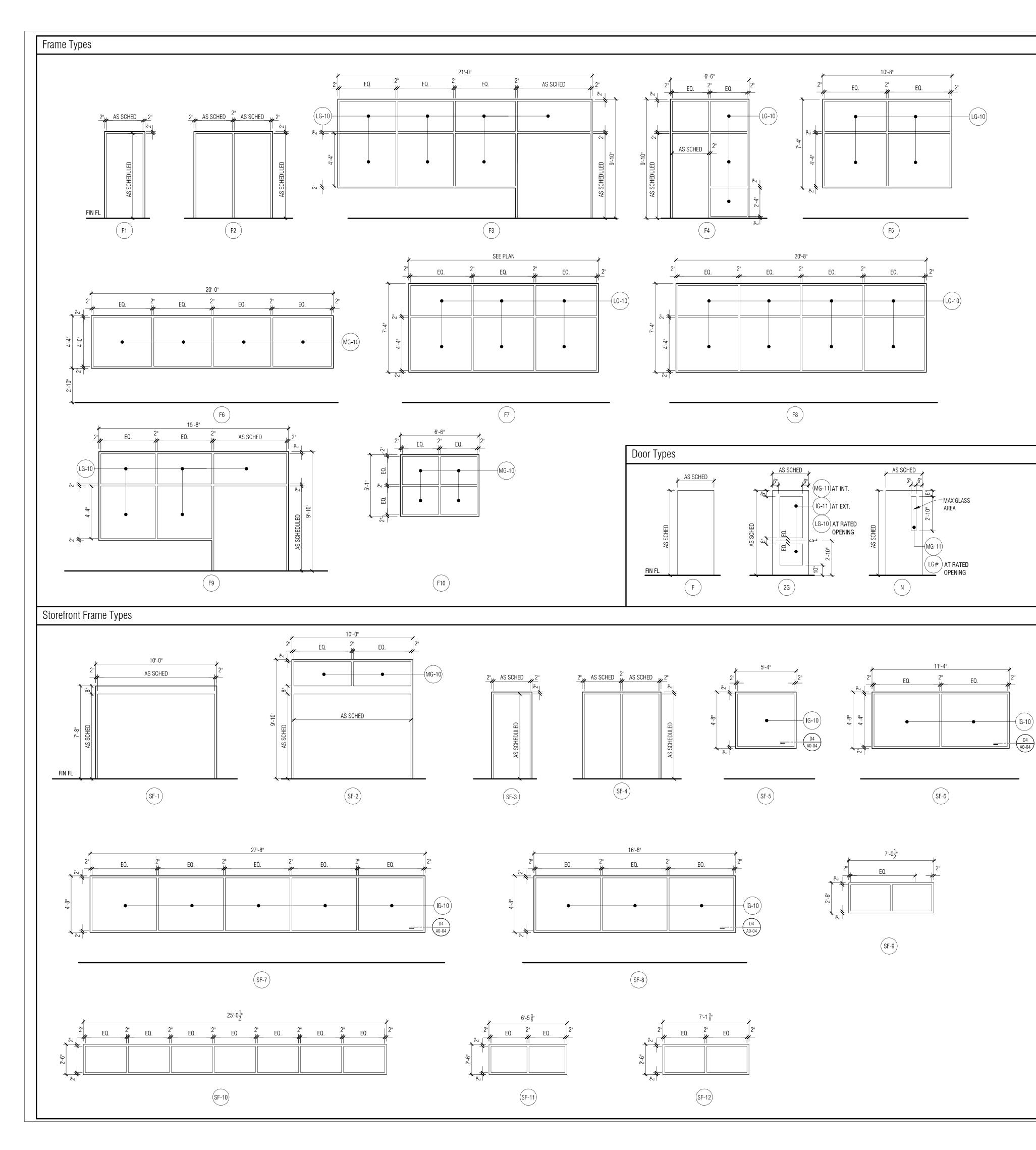
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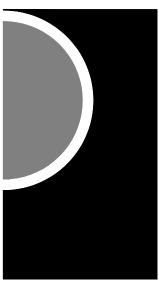
DWG

## SHEET NAME LIFE SAFETY CODE INFORMATION

Addition and
18185 Sycamore Roseville, MI 4806



DUOR ICONT SIZE IAREA AA100A10'1A100B10'1A1023'-0A1033'-0A1043'-0A105(PR)A10510'1A10510'1A10510'1A105(PR)A105(PR)A106A(PR)A106B(PR)A106B(PR)A106C(PR)A106B3'-0A107A(PR)A106C3'-0A107A(PR)A107A(PR)A1063'-0A110E3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110B3'-0A110C3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A1133'-0A1143'-0A1153'-0A1143'-0A1153'-0A1143'-0A1153'-0A1223'-0A124(PR)E125A(PR)E134(PR)E134(PR)E134(PR)E143(PR)E143(PR)E143(PR)E143(PR)E155A(PR)E166A(PR)E166A(PR)E166A(PR) <td< th=""><th>DOOR/OPEN'G SIZE (W x H)         DOOR/OPEN'G SIZE (W x H)         DONTRACTOR TO VERIFY DOOR         SIZE IF OPENING IS EXISTING)         10'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3</th><th>CTOR TO VERIFY DOOR PENING IS EXISTING)         C(7'-0"         C(7'-4"         C(7'-4"         C(7'-4"         C(7'-4"         C(7'-0"         O" X 7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-1"         C(7'-4"         C(7'-4"</th><th>TYPE       2G (SIM)       2G (SIM)       2G (SIM)       N       N       F                0          1       1       1       1       1       1       1       1</th><th>D00R MAT. ALUM ALUM WD WD WD WD    WD HM HM HM HM HM WD WD HM</th><th>FINISH STN-1 STN-1 STN-1 STN-1 STN-1 PNT-5 PNT-5 PNT-5</th><th>TYPE         SF-1         SF-2         F1         F1         F3         F5         F7         F5         F8         F1</th><th>FRAME MAT. ALUM ALUM HM HM HM HM HM HM</th><th>FINISH  PNT-4 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4</th><th>HEAD 3/A6-08 4/A6-08 D1 D1 D1 D1 D1</th><th>BY MANUF. BY MANUF. D2</th><th></th><th>HARDWARE SET #</th><th>LABEL (MIN) </th><th>DOOR/ OPENING KEY NOTES</th></td<>	DOOR/OPEN'G SIZE (W x H)         DOOR/OPEN'G SIZE (W x H)         DONTRACTOR TO VERIFY DOOR         SIZE IF OPENING IS EXISTING)         10'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3	CTOR TO VERIFY DOOR PENING IS EXISTING)         C(7'-0"         C(7'-4"         C(7'-4"         C(7'-4"         C(7'-4"         C(7'-0"         O" X 7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-0"         C(7'-1"         C(7'-4"	TYPE       2G (SIM)       2G (SIM)       2G (SIM)       N       N       F                0          1       1       1       1       1       1       1       1	D00R MAT. ALUM ALUM WD WD WD WD    WD HM HM HM HM HM WD WD HM	FINISH STN-1 STN-1 STN-1 STN-1 STN-1 PNT-5 PNT-5 PNT-5	TYPE         SF-1         SF-2         F1         F1         F3         F5         F7         F5         F8         F1	FRAME MAT. ALUM ALUM HM HM HM HM HM HM	FINISH  PNT-4 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4	HEAD 3/A6-08 4/A6-08 D1 D1 D1 D1 D1	BY MANUF. BY MANUF. D2		HARDWARE SET #	LABEL (MIN) 	DOOR/ OPENING KEY NOTES
AREA AA100A10'A100B10'A1023'-0A1033'-0A1043'-0A10510'A10510'A10510'A10510'A10510'A10510'A10510'A10510'A10510'A10510'A10510'A10510'A106(PR)A1063'-0A1063'-0A107(PR)A107(PR)A1063'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A111(PR)A1103'-0A1103'-0A111(PR)A1123'-0A1133'-0A1143'-0A1153'-0A1143'-0A1153'-0A1223'-0A1233'-0E124(PR)E134(PR)E134(PR)E134(PR)E134(PR)E1438(PR)E143(PR)E143(PR)E143(PR)E143(PR)E143(PR)E143(PR)E143(PR)E143(PR)E143(PR) <t< th=""><th>10'-0" X 7'-0"         10'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         12'-8" X 7'-4"         6'-6" X 5'-1"         6'-6" X 5'-1"         6'-6" X 5'-1"         6'-6" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"    </th><th>(7'-0"         (7'-0"         7'-0"         7'-0"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         (7'-4"          (7'-4"</th><th>2G (SIM)       2         2G (SIM)       2         N       2         N       2         N       2         N       2          2          2          2          2         F       2         F       2         F       2         F       2         2G       2</th><th>ALUM ALUM WD WD WD    WD HM HM HM HM WD WD</th><th> STN-1 STN-1 STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5</th><th>SF-1         SF-2         F1         F1         F3         F5         F7         F5         F8</th><th>ALUM ALUM HM HM HM HM HM</th><th> PNT-4 PNT-4 PNT-4 PNT-4 PNT-4</th><th>3/A6-08 4/A6-08 D1 D1 D1 D1</th><th>BY MANUF. BY MANUF. D2</th><th>BY MANUF.</th><th></th><th></th><th></th></t<>	10'-0" X 7'-0"         10'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         10'-8" X 7'-4"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         12'-8" X 7'-4"         6'-6" X 5'-1"         6'-6" X 5'-1"         6'-6" X 5'-1"         6'-6" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"	(7'-0"         (7'-0"         7'-0"         7'-0"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         (7'-4"          (7'-4"	2G (SIM)       2         2G (SIM)       2         N       2         N       2         N       2         N       2          2          2          2          2         F       2         F       2         F       2         F       2         2G       2	ALUM ALUM WD WD WD    WD HM HM HM HM WD WD	 STN-1 STN-1 STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5	SF-1         SF-2         F1         F1         F3         F5         F7         F5         F8	ALUM ALUM HM HM HM HM HM	 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4	3/A6-08 4/A6-08 D1 D1 D1 D1	BY MANUF. BY MANUF. D2	BY MANUF.			
A100B10'A1023'-0A1033'-0A1043'-0A105(PR)A10510'A10520'A10520'A105(PR)A106(PR)A106(PR)A1063'-0A1063'-0A107A(PR)A107A(PR)A107(PR)A107(PR)A1063'-0A107(PR)A1073'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A1103'-0A111(PR)A1103'-0A111(PR)A1103'-0A111(PR)A1123'-0A1133'-0A1143'-0A1153'-0A1143'-0A1153'-0A1143'-0A1133'-0A1143'-0A1143'-0A1153'-0A114(PR)E1233'-0E134(PR)E134(PR)E135ETRE134(PR)E134ETRE143ETRE143ETRE143ETRE155AETRE166A(PR)E166A(PR)E166A(PR)E166A(PR)<	10'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 10'-8" X 7'-4" 16'-0" X 7'-4" 10'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"	(7'-0"         7'-0"         7'-0"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         (7'-0"         (7'-4"      (7'-1"      (7'-1"	2G (SIM)       N       F       N                   0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0    0	ALUM WD WD WD   WD HM HM HM WD WD	 STN-1 STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5	SF-2         F1         F1         F3         F5         F7         F5         F8	ALUM HM HM HM HM HM	 PNT-4 PNT-4 PNT-4 PNT-4 PNT-4	4/A6-08 D1 D1 D1	BY MANUF. D2				
A102         3'-0'           A103         3'-0'           A104         3'-0'           A105         (PR)           A105M         10'-'           A105M         10'-'           A105M         10'-'           A105M         20'-'           A105M         (PR)           A106A         (PR)           A106A         (PR)           A106A         (PR)           A106D         3'-0'           A106D         3'-0'           A107A         (PR)           A107B         (PR)           A107B         (PR)           A107B         3'-0'           A110A         3'-0'           A111A         3'-0'           A111A         3'-0'           A114         3'-0'           A114         3'-0'           A115         3'-0'           A114         3'-0'           A114         3'	$3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $10'-8" \times 7'-4"$ $10'-8" \times 7'-4"$ $20'-8" \times 7'-4"$ $(PR) 3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $12'-8" \times 7'-4"$ $6'-6" \times 5'-1"$ $(PR) 3'-4" \times 7'-0"$ $3'-0" \times 7'-0"$	7'-0"         7'-0"         0" X 7'-0"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         (7'-4"         5'-1"	N           N           F           N                    N              N           F           F           F           F           F           F           F           F           ZG           2G           2G           2G           2G           2G           2G           2G           2G	WD           WD           WD           WD                       WD           HM           HM           HM           WD           WD	STN-1 STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5	F1 F1 F3 F5 F7 F5 F8	HM HM HM HM HM	PNT-4 PNT-4 PNT-4 PNT-4 PNT-4	D1 D1 D1	D2	вт manuf.			1
A1033'-0A1043'-0A105(PR)A105L10'-1A105M10'-1A105M10'-1A105M10'-1A105M(PR)A106A(PR)A106B(PR)A106C(PR)A106D3'-0A107A(PR)A107A(PR)A107A(PR)A107A(PR)A107B3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A111(PR)A1123'-0A1133'-0A1143'-0A1153'-0A1163'-0A1173'-0A118(PR)A1203'-0A1213'-0A1213'-0A1223'-0E133A(PR)E134A(PR)E134A(PR)E134A(PR)E134A(PR)E134AETRE135AETRE143ETRE143ETRE154AETRE165A(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR) <trt< td=""><td><math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>10'-8" \times 7'-4"</math> <math>16'-0" \times 7'-4"</math> <math>10'-8" \times 7'-4"</math> <math>20'-8" \times 7'-4"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>(PR) 3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math> <math>12'-8" \times 7'-4"</math> <math>6'-6" \times 5'-1"</math> <math>(PR) 3'-4" \times 7'-0"</math> <math>3'-0" \times 7'-0"</math></td><td>7'-0"         7'-0"         0" X 7'-0"         3 7'-4"         3 7'-4"         3 7'-4"         4" X 7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-1"         5'-1"         5'-1"</td><td>N           F           N                    N           F           F           F           F           F           F           F           2G           2G</td><td>WD           WD           WD                    WD           HM           HM           HM           WD           WD           WD</td><td>STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5</td><td>F1 F1 F3 F5 F7 F5 F8</td><td>HM HM HM HM</td><td>PNT-4 PNT-4 PNT-4 PNT-4</td><td>D1 D1</td><td></td><td></td><td></td><td>45</td><td></td></trt<>	$3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $10'-8" \times 7'-4"$ $16'-0" \times 7'-4"$ $10'-8" \times 7'-4"$ $20'-8" \times 7'-4"$ $(PR) 3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $(PR) 3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $3'-0" \times 7'-0"$ $12'-8" \times 7'-4"$ $6'-6" \times 5'-1"$ $(PR) 3'-4" \times 7'-0"$ $3'-0" \times 7'-0"$	7'-0"         7'-0"         0" X 7'-0"         3 7'-4"         3 7'-4"         3 7'-4"         4" X 7'-0"         0" X 7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-0"         7'-1"         5'-1"         5'-1"	N           F           N                    N           F           F           F           F           F           F           F           2G	WD           WD           WD                    WD           HM           HM           HM           WD           WD           WD	STN-1 STN-1 STN-1   STN-1 PNT-5 PNT-5	F1 F1 F3 F5 F7 F5 F8	HM HM HM HM	PNT-4 PNT-4 PNT-4 PNT-4	D1 D1				45	
A1051(PR)A105L10"A105M10"A105M10"A105P20"A106A(PR)A106D3"-0"A106B(PR)A106C(PR)A107A(PR)A107B(PR)A107B(PR)A107B(PR)A107B(PR)A107B(PR)A107B3"-0"A110A3"-0"A110A3"-0"A110D12"A110D12"A110D3"-0"A110E3"-0"A110E3"-0"A1106"-6"A111(PR)A1123"-0"A1133"-0"A1143"-0"A1153"-0"A1163"-0"A1163"-0"A1173"-0"A118(PR)A1193'-0"A1163"-0"A1173'-0"A118(PR)E1233'-0"A1193'-0"A1203'-0"A1213'-0"E1233'-0"E124A(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E134B(PR)E13	(PR) 3'-0" X 7'-0" 10'-8" X 7'-4" 16'-0" X 7'-4" 20'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"	0" X 7'-0" (7'-4" (7'-4" (7'-4" (7'-4" 0" X 7'-0" 0" X 7'-0" 0" X 7'-0" 0" X 7'-0" 0" X 7'-0" 0" X 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" (7'-4" (7'-4" (7'-4" 5'-1" 5'-1"	F         N                  N         F         F         F         F         F         F         2G         2G      <	WD   WD HM HM HM WD WD	STN-1 STN-1   STN-1 PNT-5 PNT-5	F3 F5 F7 F5 F8	HM HM HM	PNT-4 PNT-4		D2				
A105L         10 <sup></sup> A105M         10 <sup></sup> A105N         10 <sup></sup> A105N         20 <sup></sup> A106A         (PR)           A106A         (PR)           A106C         (PR)           A106D         3'-0'           A107A         (PR)           A107A         (PR)           A107A         (PR)           A107A         (PR)           A107A         (PR)           A107B         3'-0'           A110A         3'-0'           A110B         3'-0'           A110C         3'-0'           A110D         3'-0'           A110D         3'-0'           A110D         3'-0'           A110D         3'-0'           A110A         3'-0'           A111         (PR)           A112         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A112         3'-0'           A113         3'-0'           A114         3'-0'           A121	10'-8" X 7'-4"         16'-0" X 7'-4"         10'-8" X 7'-4"         20'-8" X 7'-4"         (PR) 3'-0" X 7'-0"         12'-8" X 7'-4"         6'-6" X 5'-1"         6'-6" X 5'-1"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"	(7'-4"         (7'-4"         (7'-4"         (7'-4"         (0" X 7'-0"         (0" X 7'-0"         (0" X 7'-0"         (0" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (11" X 7'-0"	  N F F F F F F F F 2G 2G 2G	  WD HM HM HM WD WD	  STN-1 PNT-5 PNT-5	F5 F7 F5 F8	HM HM	PNT-4	D1	D2				
A105M16'-0A105N20'-0A106A(PR)A106B(PR)A106C(PR)A106C(PR)A107A(PR)A107B(PR)A107A(PR)A107A(PR)A107A(PR)A107A(PR)A107B(PR)A107A(PR)A107(PR)A107(PR)A107(PR)A110A3'-0A110A3'-0A110C(PR)A110L(PR)A110L(PR)A1106'-6A1106'-6A110(PR)A112(PR)A113(PR)A114(PR)A115(PR)A116(PR)A116(PR)A117(PR)A118(PR)A119(PR)A116(PR)A117(PR)A118(PR)A119(PR)A112(PR)E123(PR)E124(PR)E132(PR)E132(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E143(PR)E144(PR)E135(PR)E144(PR)E155(PR)E166(PR)E166(PR)E166A(PR)E166A(PR)	16'-0" X 7'-4" 10'-8" X 7'-4" 20'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	(7'-4"         (7'-4"         (7'-4"         (0" X 7'-0"         (0" X 7'-0"         (0" X 7'-0"         (0" X 7'-0"         (10" X 7'-0"         (11" X 7'-0" <td>  N F F F F F F F 2G 2G 2G 2G</td> <td> WD HM HM HM WD WD</td> <td>  STN-1 PNT-5 PNT-5</td> <td>F7 F5 F8</td> <td>HM</td> <td></td> <td>וש</td> <td>D2</td> <td>D3</td> <td></td> <td>45</td> <td></td>	  N F F F F F F F 2G 2G 2G 2G	 WD HM HM HM WD WD	  STN-1 PNT-5 PNT-5	F7 F5 F8	HM		וש	D2	D3		45	
A105N10'A105P20'A106A(PR)A106B(PR)A106C(PR)A106D3'-0A107A(PR)A107B(PR)A107A(PR)A107B(PR)A110A3'-0A110A3'-0A110A3'-0A110C3'-0A110D3'-0A110D3'-0A110D3'-0A110A3'-0A110A3'-0A110A3'-0A110A3'-0A111(PR)A1123'-0A1133'-0A1143'-0A1153'-0A1163'-0A1173'-0A118(PR)A11920'-0A118(PR)A1193'-0A1163'-0A1173'-0A118(PR)A1203'-0A1213'-0A1213'-0A1223'-0E123A(PR)E134A(PR)E134A(PR)E134A(PR)E134A(PR)E134A(PR)E134AETRE143ETRE154AETRE155AETRE165(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR)E166A(PR) <td< td=""><td>10'-8" X 7'-4" 20'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"</td><td>(7'-4"         (7'-4"         (7'-4"         (0" X 7'-0"         (0" X 7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-14"         (7'-4"         (7'-4"         (7'-1"         (7'-1"         (7'-1"</td><td> N F F F F F F F F 2G 2G 2G</td><td> WD HM HM HM WD WD</td><td> STN-1 PNT-5 PNT-5</td><td>F5 F8</td><td></td><td>DNT 4</td><td>D1</td><td>D2</td><td>D3</td><td></td><td>45</td><td></td></td<>	10'-8" X 7'-4" 20'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	(7'-4"         (7'-4"         (7'-4"         (0" X 7'-0"         (0" X 7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-0"         (7'-14"         (7'-4"         (7'-4"         (7'-1"         (7'-1"         (7'-1"	 N F F F F F F F F 2G 2G 2G	 WD HM HM HM WD WD	 STN-1 PNT-5 PNT-5	F5 F8		DNT 4	D1	D2	D3		45	
A105P20'A106A(PR)A106B(PR)A106C(PR)A106D3'-0A107A(PR)A107B(PR)A107B(PR)A107B(PR)A107B(PR)A107B3'-0A110A3'-0A110A3'-0A110C3'-0A110D3'-0A110D12'-1A110D12'-1A110D3'-0A110D3'-0A110D6'-6A110P6'-6A110P6'-6A110P3'-0A1123'-0A1133'-0A1143'-0A1153'-0A1163'-6A118(PR)A1203'-0A1213'-0A1213'-0A1223'-0A1233'-0A124(PR)E1233'-0E1233'-0E124A(PR)E1233'-0E1313'-0E132(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E143(PR)E144ETRE145(PR)E155AETRE155A(PR)E166A(PR)E166A(PR)	20'-8" X 7'-4" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	(7'-4"         (0" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (10" X 7'-0"         (11"	N F F F F F F F 2G 2G 2G 2G	 WD HM HM HM WD WD	 STN-1 PNT-5 PNT-5	F8	1 1111	PNT-4 PNT-4	D1	D2 D2	D3 D3		45 45	
A106B(PR)A106C(PR)A106D3'-0A107A(PR)A107B(PR)A107B(PR)A1073'-0A110A3'-0A110C3'-0A110C3'-0A110C3'-0A110L12'-0A110M12'-0A110M12'-0A110M6'-6A1106'-6A111(PR)A1123'-0A1133'-0A1143'-0A1143'-0A1153'-0A1163'-0A1173'-0A118(PR)A1193'-0A118(PR)A1203'-0A1213'-0A1213'-0A1213'-0A1213'-0A1213'-0A1223'-0A123(PR)E1233'-0E124(PR)E1233'-0E124(PR)E124(PR)E1313'-0E132(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E143ETRE144ETRE143ETRE154ETRE165(PR)E166A(PR)E166A(PR)	(PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-10"         3'-0" X 7'-10"         12'-8" X 7'-4"         12'-8" X 5'-1"         6'-6" X 5'-1"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"	0" X 7'-0" 0" X 7'-0" 7'-0" 0" X 7'-0" 0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" (7'-4" (7'-4" 5'-1" 5'-1"	F           F           F           F           Q           2G	HM HM HM WD WD	PNT-5 PNT-5	F1	HM	PNT-4	D1	D2	D3		45	
A106C     (PR)       A106D     3'-0       A107A     (PR)       A107B     3'-0       A110A     3'-0       A110D     3'-0       A110D     3'-0       A110D     12'-1       A110D     12'-1       A110D     6'-6       A110D     6'-6       A110P     6'-6       A110P     6'-6       A110P     6'-6       A111     (PR)       A112     3'-0       A113     3'-0       A114     3'-0       A115     3'-0       A116     3'-0       A113     3'-0       A114     3'-0       A115     3'-0       A116     3'-0       A117     3'-0       A118     (PR)       A121     3'-0       A121     3'-0       A121     3'-0       A122     3'-0       E123     3'-0       E124     (PR)       E1324     (PR)       E1324 <t< td=""><td>(PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-10"         3'-0" X 7'-10"         3'-0" X 7'-10"         12'-8" X 7'-4"         6'-6" X 5'-1"         6'-6" X 5'-1"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"</td><td>0" X 7'-0" 7'-0" 0" X 7'-0" 0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"</td><td>F F F F 2G 2G 2G 2G</td><td>HM HM WD WD</td><td>PNT-5</td><td></td><td>HM</td><td>PNT-4</td><td>D1</td><td>D2</td><td>T3</td><td></td><td>45</td><td></td></t<>	(PR) 3'-0" X 7'-0"         3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-10"         3'-0" X 7'-10"         3'-0" X 7'-10"         12'-8" X 7'-4"         6'-6" X 5'-1"         6'-6" X 5'-1"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"	0" X 7'-0" 7'-0" 0" X 7'-0" 0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"	F F F F 2G 2G 2G 2G	HM HM WD WD	PNT-5		HM	PNT-4	D1	D2	T3		45	
A106D3'-0'A107A(PR)A107B(PR)A109(PR)A109(PR)A110A3'-0'A110B3'-0'A110C3'-0'A110L12'-1A110L12'-1A110L12'-1A110L12'-1A110L12'-1A110L12'-1A110L12'-1A110L6'-6'A111(PR)A1123'-0'A1133'-0'A1143'-0'A1153'-0'A1163'-0'A1173'-0'A118(PR)A1193'-0'A1193'-0'A1123'-0'A1133'-0'A1143'-0'A1153'-0'A1163'-0'A1173'-0'A118(PR)E1233'-0'A1213'-0'A1213'-0'E1233'-0'E124A(PR)E125A(PR)E130ETRE1313'-0'E132(PR)E134(PR)E134(PR)E134ETRE135ETRE143ETRE151AETRE155AETRE166A(PR)E166A(PR)E166A(PR)	3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-0" X 7'-0"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"         12'-8" X 7'-4"         12'-8" X 5'-1"         6'-6" X 5'-1"         6'-6" X 5'-1"         (PR) 3'-4" X 7'-0"         3'-0" X 7'-0"         3'-0" X 7'-0"	7'-0" 0" X 7'-0" 0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"	F F F 2G 2G 2G 2G	HM WD WD		F1	HM	PNT-4	2/A3-11 (SIM)	2/A3-11 (SIM)	T2		90	
A107A(PR)A107B(PR)A109(PR)A110A3'-0A110B3'-0A110C3'-0A110C3'-0A110C12'-1A110M12'-1A110M12'-1A110M12'-1A110M12'-1A110M6'-6A111(PR)A1123'-0A1133'-0A1143'-0A1153'-0A1163'-6A1173'-0A118(PR)A1193'-0A1193'-0A1193'-0A1193'-0A1193'-0A1203'-0A1213'-0A1213'-0E1233'-0E124A(PR)E1233'-0E124A(PR)E1253'-0E1233'-0E124(PR)E1233'-0E124(PR)E125(PR)E1313'-0E133(PR)E134(PR)E134(PR)E134ETRE134ETRE134ETRE143ETRE143ETRE154ETRE155ETRE166(PR)E166A(PR)	(PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	0" X 7'-0" 0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"	F F 2G 2G 2G 2G	WD WD		F1	HM	PNT-4	2/A3-11 (SIM)	2/A3-11	T2		90	
A107B     (PR)       A109     (PR)       A109     (PR)       A110A     3'-0'       A110B     3'-0'       A110C     3'-0'       A110D     3'-0'       A110D     1'2'-'       A110M     1'2'-'       A110M     1'2'-'       A110M     1'2'-'       A110M     6'-6'       A110N     6'-6'       A110N     6'-6'       A111     (PR)       A112     3'-0'       A113     3'-0'       A114     3'-0'       A115     3'-0'       A116     3'-0'       A117     2'0'-0'       A118     (PR)       A119     2'0'-0'       A119     3'-0'       A119     3'-0'       A112     3'-0'       A112     3'-0'       A121     3'-0'       A122     3'-0'       E123     3'-0'       E124A     (PR)       E125     (PR)       E124     (PR)       E130     ETR       E131     3'-0'       E132     (PR)       E134     (PR)       E135     ETR       E134     (PR)	(PR) 3'-0" X 7'-0" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	0" X 7'-0" 4" X 7'-0" 7'-0" 7'-0" 7'-0" (7'-0" (7'-4" (7'-4" 5'-1" 5'-1"	F F 2G 2G 2G	WD	PNT-5 STN-1	F1 F1	HM	PNT-4 PNT-4	D5 (SIM) D1	D5 D2	T5 		 45	
A110A3'-0'A110B3'-0'A110C3'-0'A110D12'-0A110M12'-0A110M12'-0A110M6'-6'A110P6'-6'A111(PR)A1123'-0'A1133'-0'A1143'-0'A1153'-0'A1163'-0'A1173'-0'A118(PR)A1193'-0'A1193'-0'A118(PR)A1203'-0'A1213'-0'A1213'-0'A1223'-0'E1233'-0'E124A(PR)E1233'-0'E124A(PR)E1273'-0'E1283'-0'E1293'-0'E1213'-0'E1233'-0'E124(PR)E125(PR)E1313'-0'E1324(PR)E1313'-0'E1325(PR)E134(PR)E134(PR)E134(PR)E134(PR)E134(PR)E135(PR)E155A(PR)E165(PR)E166A(PR)E166A(PR)	3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"	7'-0" 7'-0" 7'-0" 7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"	2G 2G 2G	ЦИЛ	STN-1	F1	HM	PNT-4	D1	D2			45	
A110B     3'-0'       A110C     3'-0'       A110D     1'2'-'       A110M     1'2'-'       A110M     6'-6'       A110P     6'-6'       A110P     6'-6'       A110N     6'-6'       A110P     6'-6'       A110P     6'-6'       A110P     6'-6'       A110P     6'-6'       A111     (PR)       A112     3'-0'       A113     3'-0'       A116     3'-6'       A119     20'-1'       A110P     3'-0'       A111     (PR)       A112     3'-0'       A113     (PR)       A114     3'-0'       A115     3'-0'       A112     3'-0'       A121     3'-0'       A122     3'-0'       A123     3'-0'       E123     3'-0'       E124A     (PR)       E125     3'-0'       E126     (PR)       E127     3'-0'       E128     3'-0'       E129     3'-0'       E128     3'-0'       E130     ETR       E131     3'-0'       E132A     (PR)       E134A     (PR)	3'-0" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"	7'-0" 7'-0" (7'-4" (7'-4" 5'-1" 5'-1"	2G 2G	1 11VI	PNT-5	F1	HM	PNT-4	2/A6-11	BY MANUF.			90	2
A110C         3'-0'           A110D         12'-0           A110M         12'-0           A110M         12'-0           A110M         6'-6'           A110P         6'-6'           A111         (PR)           A112         3'-0'           A113         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A118         (PR)           A119         3'-0'           A119         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A119         2'-0'           A119         3'-0'           A120         3'-0'           A121         3'-0'           E123         3'-0'           E124         (PR)           E125         (PR)           E126         (PR)           E131         3'-0'           E132A         (PR)           E134A         (PR)           E135A         ETR           E134A         PR <td>3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"</td> <td>7'-0" 7'-0" (&lt; 7'-4" (&lt; 7'-4" 5'-1" 5'-1"</td> <td>2G</td> <td>WD</td> <td>STN-1</td> <td>F4</td> <td>HM</td> <td>PNT-4</td> <td>2/A6-07</td> <td>D2</td> <td>T3/D3</td> <td></td> <td>45</td> <td></td>	3'-0" X 7'-0" 3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0"	7'-0" 7'-0" (< 7'-4" (< 7'-4" 5'-1" 5'-1"	2G	WD	STN-1	F4	HM	PNT-4	2/A6-07	D2	T3/D3		45	
A110D         3'-0'           A110L         12'           A110M         12'           A110M         6'-6'           A110P         6'-6'           A110P         6'-6'           A110P         6'-6'           A111         (PR)           A112         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-6'           A118         (PR)           A119         3'-0'           A119         3'-0'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           E123         3'-0'           E124         (PR)           E125         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E1324         (PR)	3'-0" X 7'-0" 12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	7'-0" ( 7'-4" ( 7'-4" 5'-1" 5'-1"		WD	STN-1	F4	HM	PNT-4	2/A6-07	D2	T3/D3		45	
A110L         12'           A110M         12'           A110N         6'-6'           A110P         6'-6'           A111         (PR)           A112         3'-0'           A113         3'-0'           A114         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A118         (PR)           A119         20'-'           A120         3'-0'           A121         3'-0'           A121         3'-0'           A121         3'-0'           A121         3'-0'           A121         3'-0'           A122         3'-0'           E123         3'-0'           E124A         (PR)           E125         3'-0'           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E1212         CTR           E131         3'-0'           E132         CTR           E134         PR) <td>12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"</td> <td>( 7'-4" ( 7'-4" 5'-1" 5'-1"</td> <td>2G</td> <td>WD WD</td> <td>STN-1 STN-1</td> <td>F1 F1</td> <td>HM</td> <td>PNT-4 PNT-4</td> <td>D1(SIM) D1(SIM)</td> <td>D2(SIM) D2(SIM)</td> <td></td> <td></td> <td>90 90</td> <td></td>	12'-8" X 7'-4" 12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	( 7'-4" ( 7'-4" 5'-1" 5'-1"	2G	WD WD	STN-1 STN-1	F1 F1	HM	PNT-4 PNT-4	D1(SIM) D1(SIM)	D2(SIM) D2(SIM)			90 90	
A110M         12'           A110N         6'-6'           A110P         6'-6'           A111         (PR)           A112         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A118         (PR)           A119         3'-0'           A119         3'-0'           A119         3'-0'           A119         3'-0'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           E123         3'-0'           E124         (PR)           E125         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E1213         3'-0'           E123         (PR)           E134         (PR)           E131         3'-0'      E1328         (PR)	12'-8" X 7'-4" 6'-6" X 5'-1" 6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	5'-4" 5'-1" 5'-1"				FT F7	HM	PNT-4 PNT-4	4/A6-05	D2(SIM) D2(SIM)	4/A6-05			
A110P         6'-6'           A111         (PR)           A112         3'-0'           A113         3'-0'           A114         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A116         3'-0'           A116         3'-0'           A116         3'-0'           A119         20'-0'           A112         3'-0'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           E123         3'-0'           E124         (PR)           E125         3'-0'           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E130         ETR           E131         3'-0'           E132         (PR)           E132         (PR)	6'-6" X 5'-1" (PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"	5'-1"				F7	HM	PNT-4	4/A6-05	D2(SIM)	4/A6-05			
A111     (PR)       A112     3'-0       A113     3'-0       A114     3'-0       A115     3'-0       A116     3'-6       A117     3'-0       A116     3'-6       A118     (PR)       A119     3'-0       A119     3'-0       A119     3'-0       A119     3'-0       A120     3'-0       A121     3'-0       A122     3'-0       A121     3'-0       A122     3'-0       E123     3'-0       E124     (PR)       E125     3'-0       E126     (PR)       E127     3'-0       E128     3'-0       E129     3'-0       E128     3'-0       E129     3'-0       E128     3'-0       E129     3'-0       E128     (PR)       E131     3'-0       E132A     (PR)       E131     3'-0       E132     (PR)       E133     (PR)       E134     (PR)       E135     ETR       E134     (PR)       E141     ETR       E142     ETR	(PR) 3'-4" X 7'-0" 3'-0" X 7'-0" 3'-0" X 7'-0"					F10	HM	PNT-4	2/A6-07	D2(SIM)	2/A6-07			
A112         3'-0'           A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A116         3'-0'           A116         3'-0'           A116         3'-0'           A119         20'-0'           A119         20'-0'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           A123         3'-0'           E123         3'-0'           E124A         (PR)           E125         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E134B         (PR)           E132A         (PR) <td>3'-0" X 7'-0" 3'-0" X 7'-0"</td> <td></td> <td></td> <td></td> <td></td> <td>F10</td> <td>HM</td> <td>PNT-4</td> <td>2/A6-07</td> <td>D2(SIM)</td> <td>2/A6-07</td> <td></td> <td></td> <td>2</td>	3'-0" X 7'-0" 3'-0" X 7'-0"					F10	HM	PNT-4	2/A6-07	D2(SIM)	2/A6-07			2
A113         3'-0'           A114         3'-0'           A115         3'-0'           A116         3'-0'           A116         3'-0'           A118         (PR)           A119         20'-1           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           E123         3'-0'           E124A         (PR)           E125         3'-0'           E124B         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E133A         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134         ETR           E134         ETR	3'-0" X 7'-0"		F	HM WD	PNT-5 STN-1	F1 F1	HM	PNT-4 PNT-4	1/A6-11 D1	BY MANUF. D2	 T1		90 45	2
A114         3'-0'           A115         3'-0'           A116         3'-6'           A118         (PR)           A119         3'-0'           A119         2'-0'           A119         2'-0'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A122         3'-0'           A122         3'-0'           A122         3'-0'           E123         3'-0'           E124         (PR)           E125         3'-0'           E124         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132         (PR)           E134         (PR)           E135         ETR           E134         (PR)           E134         ETR			F	WD	STN-1 STN-1	F1	HM	PNT-4 PNT-4	D1	D2 D2	T1		45	
A116         3'-6'           A118         (PR)           A119         20'-1           A119L         20'-1           A120         3'-0'           A121         3'-0'           A122         3'-0'           A121         3'-0'           A121         3'-0'           A122         3'-0'           A123         3'-0'           E123         3'-0'           E124A         (PR)           E124B         (PR)           E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E134A         (PR)           E132B         PR)           E134B         PR)           E134B         PR)           E134B         PR)           E134B         PR)           E134B         ETR           E142         ETR           E143         ETR	3'-0" X 7'-0"		F	WD	STN-1	F1	HM	PNT-4	D1	D2				
A118       (PR)         A119       3'-0'         A119L       20'-0'         A120       3'-0'         A121       3'-0'         A121       3'-0'         A122       3'-0'         A121       3'-0'         A122       3'-0'         A121       3'-0'         A122       3'-0'         A122       3'-0'         E123       3'-0'         E124A       (PR)         E126       (PR)         E127       3'-0'         E128       3'-0'         E129       3'-0'         E128       3'-0'         E129       3'-0'         E128       3'-0'         E129       3'-0'         E128       3'-0'         E130       ETR         E131       3'-0'         E132       (PR)         E131       3'-0'         E132       (PR)         E133       (PR)         E134       (PR)         E134       (PR)         E134       ETR         E134       ETR         E141       ETR <tr< td=""><td>3'-0" X 7'-0"</td><td></td><td>F</td><td>HM</td><td>PNT-7</td><td>F1</td><td>HM</td><td>PNT-6</td><td>2/A3-11 (SIM)</td><td>2/A3-11 (SIM)</td><td>T1</td><td></td><td>90</td><td></td></tr<>	3'-0" X 7'-0"		F	HM	PNT-7	F1	HM	PNT-6	2/A3-11 (SIM)	2/A3-11 (SIM)	T1		90	
A119         3'-0'           A119L         20'-1           A120         3'-0'           A121         3'-0'           A121         3'-0'           A122         3'-0'           A122         3'-0'           A122         3'-0'           A123         3'-0'           E123         3'-0'           E124A         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E128         3'-0'           E128         3'-0'           E128         3'-0'           E129         3'-0'           E131         3'-0'           E132         (PR)           E131         3'-0'           E132         (PR)           E134         (PR)           E132         (PR)           E132         (PR)           E134         (PR)           E134         (PR)           E134         (PR)           E134         (PR)           E134         ETR           E140         ETR	3'-6" X 7'-0"		F	WD	STN-1	F1	HM	PNT-4	D1	D2	 D3/T3			
A119L         20'           A120         3'-0'           A121         3'-0'           A122         3'-0'           A122         3'-0'           A122         3'-0'           A122         3'-0'           A122         3'-0'           AREA E         (PR)           E123         3'-0'           E124A         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E133A         (PR)           E134A         (PR)           E132A         (PR)           E134B         ETR           E134         ETR           E142         ETR           E143         ETR           E143         ETR <t< td=""><td>(PR) 3'-0" X 7'-0" 3'-0" X 7'-0"</td><td></td><td>N</td><td>WD WD</td><td>STN-1 STN-1</td><td>F9 F1</td><td>HM</td><td>PNT-4 PNT-4</td><td>D1 D1</td><td>D2 D2</td><td>D3/T3 T3</td><td></td><td>45 </td><td></td></t<>	(PR) 3'-0" X 7'-0" 3'-0" X 7'-0"		N	WD WD	STN-1 STN-1	F9 F1	HM	PNT-4 PNT-4	D1 D1	D2 D2	D3/T3 T3		45 	
A120       3'-0'         A121       3'-0'         A122       3'-0'         A122       3'-0'         A122       3'-0'         AREA E       1         E123       3'-0'         E124A       (PR)         E124B       (PR)         E126       (PR)         E127       3'-0'         E128       3'-0'         E129       3'-0'         E128       3'-0'         E129       3'-0'         E131       3'-0'         E132       (PR)         E131       3'-0'         E132       (PR)         E131       3'-0'         E132       (PR)         E131       3'-0'         E132       (PR)         E133       ETR         E134       (PR)         E135       ETR         E134       (PR)         E134       (PR)         E140       ETR         E141       ETR         E142       ETR         E143       ETR         E144       ETR         E143       ETR         E	20'-0" X 4'-4"					F1 F6	HM	PNT-4 PNT-4	D1	D2 D2	D3			
A122       3'-0'         AREA E       -         E123       3'-0'         E124A       (PR)         E124B       (PR)         E124B       (PR)         E124B       (PR)         E124B       (PR)         E124B       (PR)         E127       3'-0'         E128       3'-0'         E129       3'-0'         E130       ETR         E131       3'-0'         E132A       (PR)         E132A       (PR)         E134A       (PR)         E132B       (PR)         E132A       (PR)         E134A       (PR)         E134B       (PR)         E134B       (PR)         E134A       (PR)         E134B       (PR)         E134B       ETR         E134       ETR         E140       ETR         E141       ETR         E142       ETR         E143B       ETR         E144       ETR         E155A       ETR         E155A       ETR         E155B       ETR	3'-0" X 7'-0"	7'-0"	F	WD	STN-1	F1	HM	PNT-4	D1	D2	T3			
AREA E           E123         3'-0'           E124A         (PR)           E124B         (PR)           E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132A         (PR)           E132B         (PR)           E132A         (PR)           E132B         (PR)           E132A         (PR)           E132B         (PR)           E132B         (PR)           E132B         (PR)           E132B         (PR)           E132B         (PR)           E132B         (PR)           E134B         ETR           E135         ETR           E140         ETR           E141         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E155A	3'-0" X 7'-0"		F	WD	STN-1	F1	HM	PNT-4	D1	D2				
E123         3'-0'           E124A         (PR)           E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132A         (PR)           E132B         (PR)           E132A         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E134B         ETR           E136         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E155A         ETR           E155B         ETR           E165         (PR)	3'-0" X 7'-0"	7'-0"	Ν	WD	STN-1	F1	HM	PNT-4	D1	D2			45	
E123         3'-0'           E124A         (PR)           E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132A         (PR)           E132B         (PR)           E132A         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E134B         ETR           E136         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E155A         ETR           E155B         ETR           E165         (PR)														
E123         3'-0'           E124A         (PR)           E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132A         (PR)           E132B         (PR)           E132A         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E134B         ETR           E136         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E155A         ETR           E155B         ETR           E165         (PR)					I			<u>ı                                     </u>						
E124B         (PR)           E126         (PR)           E127         3'-0'           E128         3'-0'           E129         3'-0'           E129         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132B         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E134B         ETR           E136         ETR           E140         ETR           E141         ETR           E142         ETR           E143         ETR           E144         ETR           E145         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E154         ETR           E155A         ETR           E155B         ETR           E165 </td <td>3'-0" X 7'-0"</td> <td>7'-0"</td> <td>Ν</td> <td>HM</td> <td>PNT-7</td> <td>F1</td> <td>HM</td> <td>PNT-6</td> <td></td> <td></td> <td>T3</td> <td></td> <td>45</td> <td></td>	3'-0" X 7'-0"	7'-0"	Ν	HM	PNT-7	F1	HM	PNT-6			T3		45	
E126         (PR)           E127         3'-0           E128         3'-0           E129         3'-0           E129         3'-0           E130         ETR           E131         3'-0           E132         (PR)           E132A         (PR)           E132B         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E136         ETR           E138         ETR           E140         ETR           E141         ETR           E142         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E151A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165	(PR) 3'-0" X 7'-0"		N	HM	PNT-7	F1	HM	PNT-6			T3	_	45	
E127         3'-0'           E128         3'-0'           E129         3'-0'           E130         ETR           E131         3'-0'           E132         (PR)           E132A         (PR)           E134A         (PR)           E134B         (PR)           E136         ETR           E137         ETR           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E136         ETR           E137         ETR           E140         ETR           E141         ETR           E142         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E151A         ETR           E155A         ETR           E165         ETR           E161         ETR           E165         (PR)           E166A	(PR) 3'-0" X 7'-0"		N	HM	PNT-7	F1	HM	PNT-6			T3		45	
E128       3'-0'         E129       3'-0'         E130       ETR         E131       3'-0'         E132A       (PR)         E132B       (PR)         E134A       (PR)         E134B       ETR         E139       ETR         E140       ETR         E141       ETR         E142       ETR         E143       ETR         E143       ETR         E143       ETR         E143       ETR         E143       ETR         E143       ETR         E151A       ETR         E155B       ETR         E161       ETR         E162       ETR         E165       (PR)         E166A       (PR)	(PR) 3'-0" X 7'-0" 3'-0" X 7'-0"		N N	HM HM	PNT-7 PNT-7	F1 F1	HM	PNT-6 PNT-6			 T1		45 45	
E129         3'-0'           E130         ETR           E131         3'-0'           E132A         (PR)           E132B         (PR)           E132B         (PR)           E132B         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E134B         (PR)           E134B         ETR           E136         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E143         ETR           E151A         ETR           E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	3'-0" X 7'-0"		N	HM	PNT-7 PNT-7	F1	HM	PNT-6			T1		45	
E131         3'-0'           E132A         (PR)           E132B         (PR)           E134A         (PR)           E134A         (PR)           E134B         (PR)           E136         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155B         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	3'-0" X 7'-0"		N	HM	PNT-7	F1	HM	PNT-6			T1			1
E132A         (PR)           E132B         (PR)           E134A         (PR)           E134B         (PR)           E136         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E143A         ETR           E151A         ETR           E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)			ETR	ETR	ETR	ETR	ETR	ETR			ETR			
E132B         (PR)           E134A         (PR)           E134B         (PR)           E134B         (PR)           E136         ETR           E136         ETR           E137         ETR           E138         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143A         ETR           E151A         ETR           E155B         ETR           E161         ETR           E165         (PR)           E165         (PR)           E166A         (PR)	3'-0" X 7'-0"		N	HM	PNT-7	F1	HM	PNT-6			T3			
E134A         (PR)           E134B         (PR)           E134B         (PR)           E136         ETR           E138         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155B         ETR           E161         ETR           E165         (PR)           E166A         (PR)	(PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0"		2G	ALUM		SF-4	ALUM				T2 T5			
E134B         (PR)           E136         ETR           E138         ETR           E139         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155A         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	(PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0"		2G 2G	ALUM		SF-4 SF-4	ALUM	$\left  \right $			15 T2			
E136         ETR           E138         ETR           E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143A         ETR           E143A         ETR           E151A         ETR           E155B         ETR           E161         ETR           E165         (PR)           E166A         (PR)	(PR) 3'-0" X 7'-0"		2G	ALUM		SF-4	ALUM				T5			
E139         ETR           E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155A         ETR           E161         ETR           E162         ETR           E165A         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E140         ETR           E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E141         ETR           E142         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E155A         ETR           E161         ETR           E165         (PR)           E166A         (PR)			ETR	ETR	ETR	ETR	ETR	ETR ETR			ETR ETR			1
E142         ETR           E143A         ETR           E143B         ETR           E151A         ETR           E151B         ETR           E155A         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)			ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR			ETR ETR			
E143A         ETR           E143B         ETR           E151A         ETR           E151B         ETR           E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1 1
E151A         ETR           E151B         ETR           E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E151B         ETR           E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)			ETR	ETR	ETR	ETR	ETR	ETR			ETR	_		1
E155A         ETR           E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E155B         ETR           E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)			ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR			ETR ETR			1
E161         ETR           E162         ETR           E165         (PR)           E166A         (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E165 (PR) E166A (PR)			ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
E166A (PR)	ETR		ETR	ETR	ETR	ETR	ETR	ETR			ETR			1
	ETR ETR		F	HM	PNT-7	F1	HM	PNT-6			T2		90	
5'-0'	etr etr (Pr) 3'-0" X 7'-0"		F	HM HM	PNT-7 PNT-7	F2 F1	HM HM	PNT-6 PNT-6			T4 T5		90	
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0"				1 111-7	I' I	IVI	0-1711			IJ			
A. FIELD VERIF	etr etr (Pr) 3'-0" X 7'-0"	ALL OPENINGS PRIOF	r to door/	FRAME FAB										
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0"													
Door/ Oper	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General	n Kev Nates	S:											
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General	IS NOT NOTES					ED WITH RET	ROFIT LEVE	R HANDLE					
2. TOTAL DOC	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General Perify All Openings price ND WINDOW FRAMES TO Dening Key Note	R HARDWARE TO HA	r primed fi	INISH FOR F	IELD PAIN	IING.								
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General Perify ALL OPENINGS PRICE AND WINDOW FRAMES TO Dening Key Note	R HARDWARE TO HA												
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General Perify All Openings price ND WINDOW FRAMES TO Dening Key Note	R HARDWARE TO HA												
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General Perify All Openings price ND WINDOW FRAMES TO Dening Key Note	R HARDWARE TO HA												
	ETR ETR (PR) 3'-0" X 7'-0" (PR) 3'-0" X 7'-0" 3'-0" X 7'-0" Denings General Perify All Openings price ND WINDOW FRAMES TO Dening Key Note	R HARDWARE TO HA												



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CONSULTANT

KEY PLAN

#### OWNER

Recreation Authority of Roseville & Eastpointe

PROJECT NAME

# Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

# 13-162

ISSUES / REVISIONS

Bidding - Construction 05/28/14

DRAWN	BY
FGM	

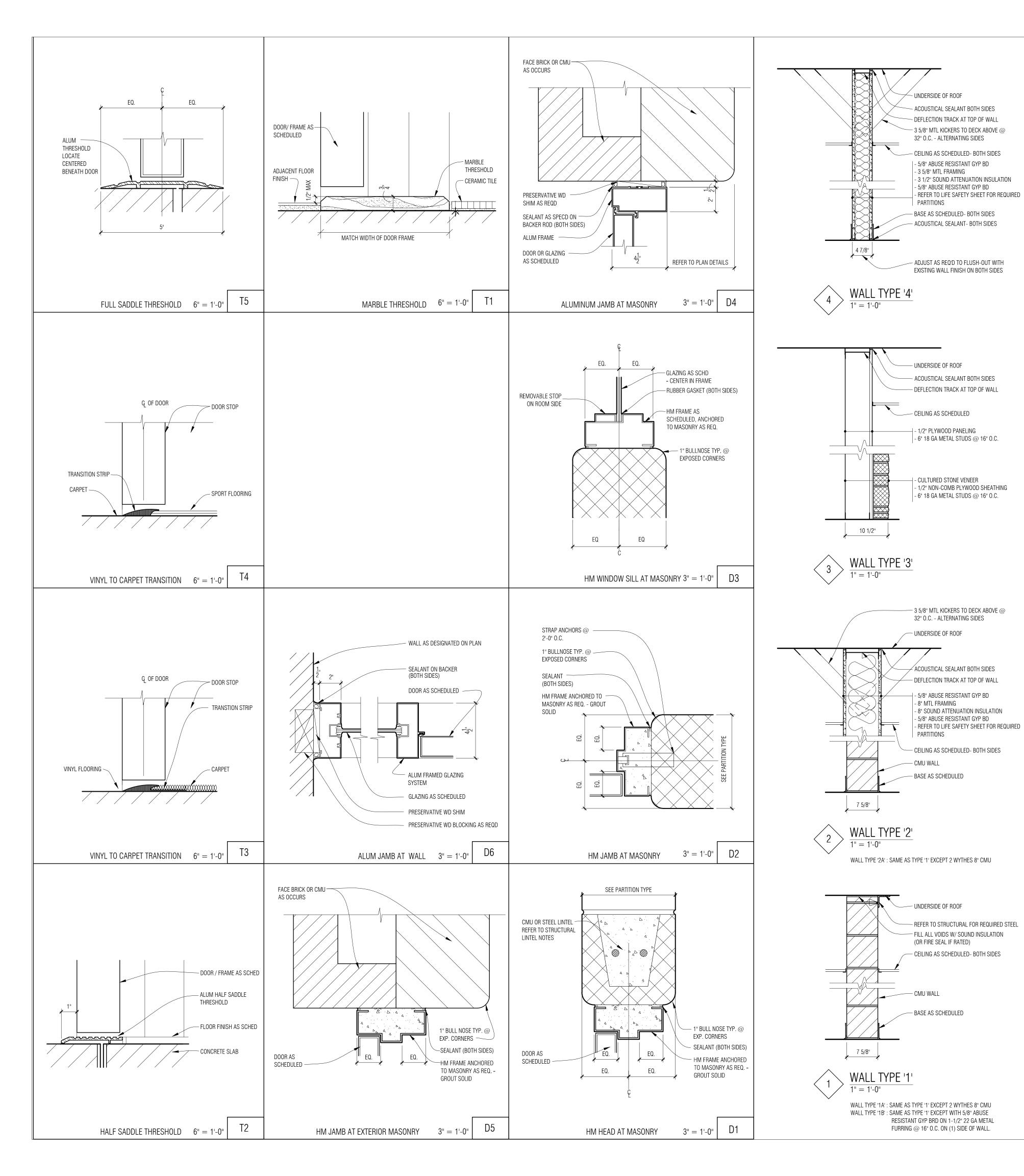
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ACS

APPROVED BY

DWG SHEET NAME

OPENING SCHED, DOOR & FRAME TYPES



VESTIBULE VESTIBULE OBBY VAITING ROOM SENIOR OFFICE STORAGE VULTI-PURPOSE STORAGE PASSAGE	FLOOR CPT-2 CT-3/RT-1/ CPT-1 CPT-1	BASE		VV <i>F</i>	LLS	-	CEILING	ROOM FINISH KEY NOTES
OBBY VAITING ROOM SENIOR OFFICE STORAGE ITNESS CENTER MULTI-PURPOSE STORAGE PASSAGE	CT-3/RT-1/ CPT-1		NORTH	EAST	SOUTH	WEST	FIN.	
VAITING ROOM SENIOR OFFICE STORAGE FITNESS CENTER MULTI-PURPOSE STORAGE PASSAGE	CPT-1	RB-1	SMF-2,3	PNT-6	SMF-2,3		GYP BD/PNT-6 ACT-2; EXPOSED/PNT-7	
SENIOR OFFICE STORAGE FITNESS CENTER MULTI-PURPOSE STORAGE PASSAGE	CPT-1	RB-1	GYP BD/PNT-2,3 SMF-1,2				GYP BD/PNT-3,8	1, 2, 3
STORAGE STORAGE MULTI-PURPOSE STORAGE PASSAGE		RB-1	PNT-1	PNT-4	PNT-1	PNT-1	ACT-1	
TINESS CENTER MULTI-PURPOSE STORAGE PASSAGE	CPT-1	RB-1	PNT-1	PNT-4	PNT-1	PNT-1	ACT-1	
MULTI-PURPOSE STORAGE PASSAGE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
STORAGE PASSAGE	SPT-1	RB-2	GYP BD/PNT-2,3 SMF-1,2,3	GYP BD/PNT-2,3 SMF-2	GYP BD/PNT-2,3 SMF-1	GYP BD/PNT-2,3 SMF-1,2	ACT-3 (ALTERNATE)	1,3, BASE BID IS OPEN CLG GRID PAINTED PNT-2
PASSAGE	VCT-1,2,3	RB-1	PNT-1,2,3	PNT-1,2,3	GYP BD/PNT-2,3 PNT-1		ACT-1	2, AT N,E,W WALLS PNT-2 & 3 BANDS ON CMU W
	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-2	
	CPT-1	RB-1	SMF-2,3	SMF-1,2		SMF-2,3	ACT-1	
PASSAGE	CPT-1	RB-1	GYP BD/PNT-2,3 SMF-1,2,3		GYP BD/PNT-2,3 SMF-1,2,3			1
EXPANDED GAME ROOM	CPT-1	RB-1	GYP BD/PNT-2,3 SMF-1,2,3	GYP BD/PNT-2,3	SMF-1,2,3 GYP BD/PNT-2,3	GYP BD/PNT-2,3	ACT-1; EXPOSED/PNT-7	3
PASSAGE	CPT-1	RB-1	SMF-1,2,3 GYP BD/PNT-2,3 SMF-1,2,3	SMF-1 	GYP BD/PNT-2.3	GYP BD/PNT-2.3	GYP BD/PNT-2 ACT-1	1
VOMEN'S	CT-1	CT-2			SMF-1,2,3 PNT-2	SMF-3	AUT-T	
			PNT-1	PNT-1		PNT-1	ACT-1	EPOXY PAINT AT ALL WALLS
MEN'S	CT-1	CT-2	PNT-1	PNT-1	PNT-2	PNT-1	ACT-1	EPOXY PAINT AT ALL WALLS
PANTRY	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
(ID'S	CT-1	CT-2	PNT-1	PNT-2	PNT-1	PNT-1	ACT-1	EPOXY PAINT AT ALL WALLS
STORAGE	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
KITCHEN	VCT-1, 3	RB-1	PNT-4	PNT-4	PNT-4	PNT-4	ACT-1	
ACTIVITY ROOM	VCT-1,3	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	2
COMPUTER ROOM	CPT-1	RB-1	PNT-1	PNT-3	PNT-1	PNT-1	ACT-1	
 COMPUTER CLOSET	VCT-1	BB-1	PNT-1	PNT-1	PNT-1	PNT-1		
STORAGE								
KIDS AREA	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
CRAFTS	VCT-1, CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
KITCHEN	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1 GYP BD/PNT-6	3
CORRIDOR	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
VOMENS	СТ	СТ	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	MATCH EX 2 X 2 FLR TILE AND BASE TO EXTENT P
/ENS								MATCH EX 2 X 2 FLR TILE AND BASE TO EXTENT P
								MATCH EX 2 X 2 FLR TILE AND BASE TO EXTENT P
INASSIGNED	VCT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	
/ESTIBULE	CPT-2	RB-1					ACT-1	
CIRCULATION	CPT-1	RB-1		PNT-1			ACT-1	
/ESTIBULE	CPT-2	RB-1						NEW FLOORING SHOWN IS ALTERNATE 4
.OBBY	VCT-1. CPT-1	RB-1						
DIRECTOR								
ASSIST DIRECTOR								
MULTI-PURPOSE	CPT-1	RB-1					ACT-1	NEW FLOOR & CLG SHOWN AS ALT 3 & 4
MULTI-PURPOSE	CPT-1	RB-1					ACT-1	NEW FLOOR & CLG SHOWN AS ALT 3 & 4
MULTI-PURPOSE	CPT-1	RB-1					ACT-1	NEW FLOOR & CLG SHOWN AS ALT 3 & 4
TOOL CRIB								
OCKER ROOM								
CORRIDOR	CPT-1	RB-1					ACT-1	
VARMING KITCHEN								
MECH/ELEC								
MENS								
VOMENS								
DFFICE STOR								
	-							
OFFICE STOR			+					
DFFICE STOR DFFICE FIRST AID								
DFFICE STOR DFFICE FIRST AID MEN'S LOCKER ROOM								
DFFICE STOR DFFICE FIRST AID MEN'S LOCKER ROOM VOMEN'S LOCKER ROOM								
DFFICE STOR DFFICE FIRST AID MEN'S LOCKER ROOM VOMEN'S LOCKER ROOM CORRIDOR	  CPT-1	 RB-1	 PNT-1	 PNT-1	 PNT-1	 PNT-1	 ACT-1	
DFFICE STOR DFFICE FIRST AID MEN'S LOCKER ROOM VOMEN'S LOCKER ROOM CORRIDOR	  CPT-1 CPT-1	 RB-1 RB-1	 PNT-1 PNT-1	 PNT-1 PNT-1	 PNT-1 PNT-1	 PNT-1 PNT-1		
DFFICE STOR DFFICE FIRST AID MEN'S LOCKER ROOM VOMEN'S LOCKER ROOM CORRIDOR	  CPT-1	 RB-1	 PNT-1	 PNT-1	 PNT-1	 PNT-1	 ACT-1	
	TORAGETCHENCTIVITY ROOMDMPUTER ROOMDMPUTER CLOSETTORAGEDNFERENCEDS AREARAFTSTCHENDRRIDOROMENSENSTAFFVASSIGNEDVASSIGNEDVASSIGNEDSTIBULEDBBYEN OFFICETAFF AREAECORDSRECTORSSIST DIRECTORULTI-PURPOSEULTI-PURPOSEULTI-PURPOSEHAIR STORHAIR STORHAIR STORARKS & REC DEPTDOL CRIBORRIDORARMING KITCHEN	TORAGEVCT-1TCHENVCT-1, 3TCHUNTY ROOMVCT-1, 3DMPUTER ROOMCPT-1DMPUTER CLOSETVCT-1TORAGEVCT-1TORAGEVCT-1DNFERENCECPT-1DS AREAVCT-1, CPT-1TCHENVCT-1, CPT-1TCHENVCT-1, CPT-1DRIDORCPT-1OMENSCTENSCTTAFFCTVASSIGNEDVCT-1, CPT-1STIBULECPT-2RCULATIONCPT-1ESTIBULECPT-2RCULATIONCPT-1ESTIBULECPT-2RECTORSSIST DIRECTORULTI-PURPOSECPT-1ULTI-PURPOSECPT-1HAIR STORHAIR STORARKS & REC DEPTCORDIORCPT-1ARKS & REC DEPTCORIBORCPT-1ARMING KITCHENCORAGE	TORAGE         VCT-1         RB-1           TCHEN         VCT-1, 3         RB-1           CTIVITY ROOM         VCT-1, 3         RB-1           DMPUTER ROOM         CPT-1         RB-1           DMPUTER CLOSET         VCT-1         RB-1           DMENS         CT         RB-1           DRIDOR         CPT-1         RB-1           OMENS         CT         CT           AFF         CT         CT           ASSIGNED         VCT-1         RB-1           VASSIGNED         VCT-1         RB-1           STIBULE         CPT-2         RB-1           RCULATION         CPT-1         RB-1           STIBULE         CPT-2         RB-1           STIBULE         CPT-1         RB-1           CORDS	TORAGEVCT-1RB-1PNT-1TCHENVCT-1,3RB-1PNT-4CTUTY ROOMVCT-1,3RB-1PNT-1DMPUTER ROOMCPT-1RB-1PNT-1DMPUTER CLOSETVCT-1RB-1PNT-1DNFAGEVCT-1RB-1PNT-1DNFAGEVCT-1RB-1PNT-1DNFRERCECPT-1RB-1PNT-1DARAGAVCT-1RB-1PNT-1DARAFAVCT-1RB-1PNT-1COMPUTER CLOSETVCT-1RB-1PNT-1DARAGEVCT-1RB-1PNT-1DARAGAVCT-1RB-1PNT-1COMPUTER CLOSETCTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACTCTPNT-1CAREACCTRB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-1RB-1CAREACCT-2RB-1CAREACCT-1RB-1CAREACCT-1RB-1 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PARTNERS	PA	R1	٢N	E	RS
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CONSULTANT

KEY PLAN

OWNFR

Recreation Authority of Roseville & Eastpointe

PROJECT NAME

## Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

**ISSUES / REVISIONS** 

Bidding - Construction 05/28/14

DRAWN BY

FGM

CHECKED BY ACS

APPROVED BY

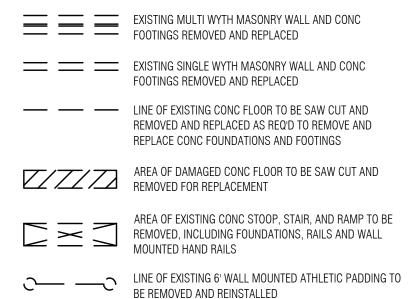
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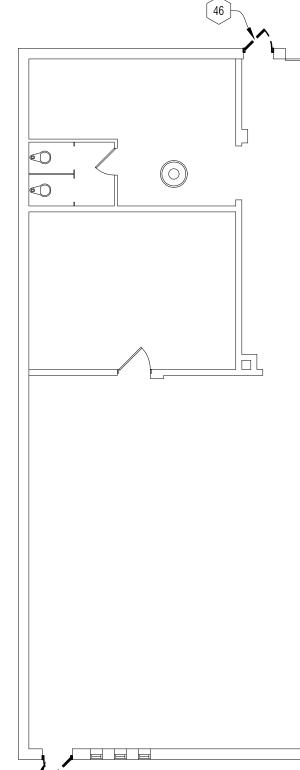
SHEET NAME ROOM FINISH SCHED, DOOR DETAILS & WALL TYPES

#### DEMO FLOOR PLAN - KEY NOTES (CONTINUED):

- 45 ALTERNATE #5: REMOVE AND REINSTALL EXISTING ALUMINUM SOFFIT PANELS, MASONRY LANDSCAPE RETAINING WALL, AND SOIL FOR NEW GLAZED VENEER INSTALLATION.
- 46 EXISTING DOOR AND FRAME TO BE REMOVED AND REPLACED, INCLUDING THRESHOLD. CAREFULLY REMOVE FRAMES TO PRESERVE INTERIOR FINISH TO REMAIN. REMOVE AND REINSTALL ALARM DETECTION DEVICES.
- [47] REMOVE AND REINSTALL DOOR MOUNTED ATHLETIC PADDING. COORDINATE W/ NEW DOOR HARDWARE.
- 48 EXISTING BOILER, BREACHING, PUMPS AND PIPING TO BE REMOVED, INCLUDING CONTROLS AND COMPRESSOR - REFER TO MECHANICAL.
- 49 EXISTING BUILDING LETTERING SIGNAGE TO BE REMOVED AND RETURNED TO OWNER.
- 50 EXISTING MASONRY SILL VENEER TO BE REMOVED.
- 51 EXISTING SCULPTURE GARDEN TO REMAIN PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 52 EXISTING FLAG POLE TO BE REMOVED AND RESET W/ NEW FOUNDATION SLEEVE. REFER TO SPECIFICATIONS AND NEW WORK PLAN FOR LOCATION.
- 53 EXISTING EXTERIOR WALL MOUNTED SECURITY CAMERAS TO BE REMOVED
- AND REINSTALLED. REFER TO NEW WORK PLAN FOR LOCATION.
- 54 EXISTING AREA OF DAMAGED FLOOR SLAB TO BE REMOVED AND REPLACED, INCLUDING TIE-IN OF REINF, VAPOR BARRIER, AND MIN 4" COMPACTED GRANULAR FILL - REFER TO STRUCT.
- ALTERNATE #2: EXIST MANUAL BLEACHER SECTION W/ WALL MOUNTING BRACKETS TO BE REMOVED COMPLETE FOR NEW MOTORIZED BLEACHER INSTALLATION.

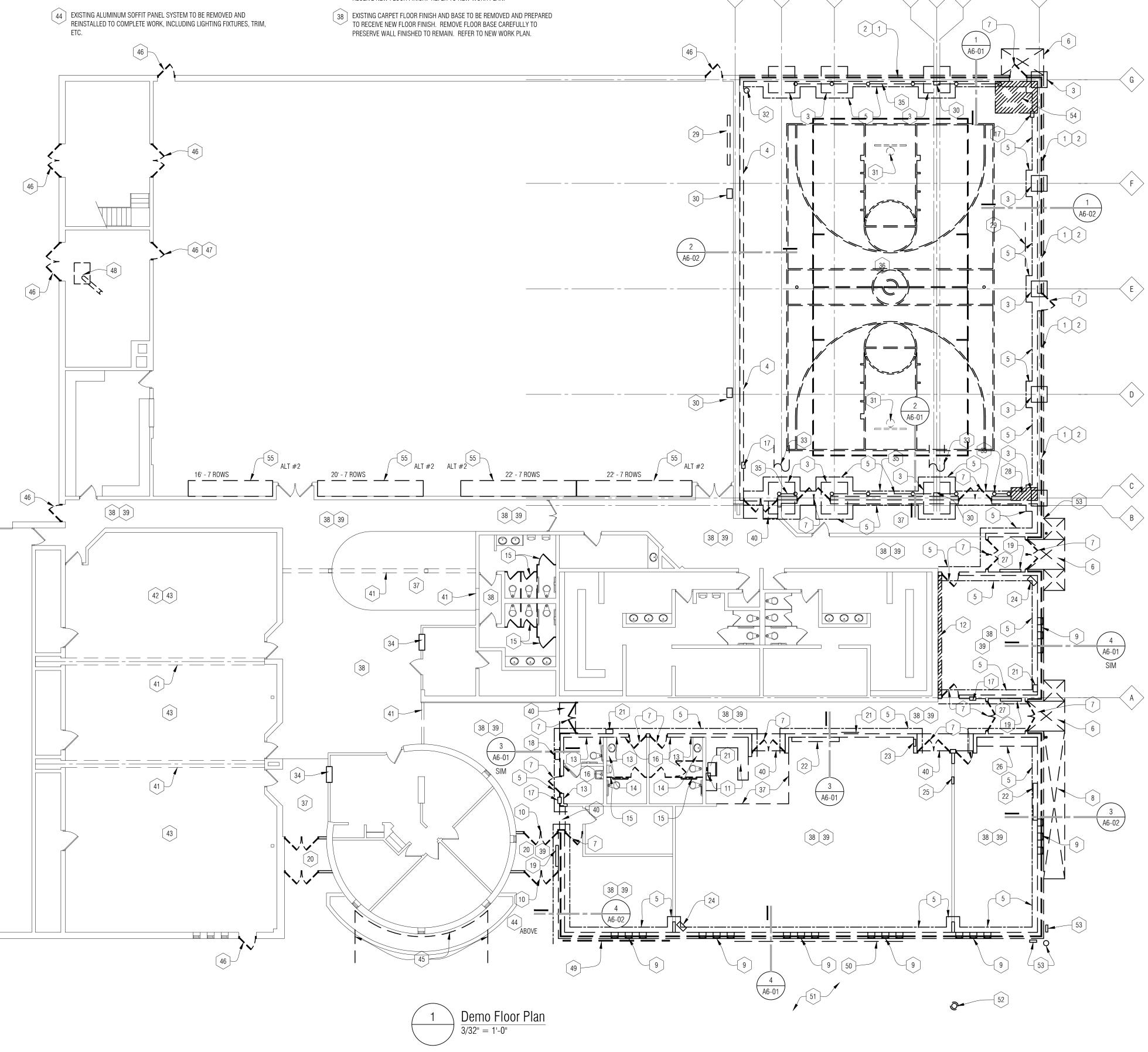
#### DEMO FLOOR PLAN - LEGEND:





#### DEMO FLOOR PLAN - KEY NOTES (CONTINUED):

- 39 EXISTING LAY-IN ACOUSTICAL CEILING AND LIGHTING TO BE REMOVED, INCLUDING HANGERS, WALL ANGLE TRIM, CEILING MOUNTED EQUIPMENT AND FIXTURES TO BE REINSTALLED. REFER TO MECHANICAL AND ELECTRICAL.
- 40 EXISTING GYP BD CEILING AND SOFFIT AT DOOR ALCOVE TO BE REMOVED AND REPLACED TO COMPLETE WORK.
- 41 EXISTING GYP BD SOFFIT, CEILING, BULK HEAD TO REMAIN. PROTECT DURING DEMOLITION. REFER TO NEW WORK PLAN.
- 42 BASE BID: REMOVE AND REINSTALL A LIMITED AREA OF EXISTING ACOUSTICAL LAY-IN CEILING, LIGHTING, AND CEILING MOUNTED EQUIPMENT TO COMPLETE NEW MECHANICAL UNIT INSTALLATION, INCLUDING STRUCTURAL MODIFICATIONS AND REINFORCEMENT. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL.
- 43 ALTERNATE #3: EXISTING LAY-IN ACOUSTICAL CEILING AND LIGHTING TO BE REMOVED, INCLUDING HANGERS, WALL ANGLE TRIM, CEILING MOUNTED EQUIPMENT AND FIXTURES TO BE REINSTALLED. REFER TO MECHANICAL AND ELECTRICAL.
- 44 EXISTING ALUMINUM SOFFIT PANEL SYSTEM TO BE REMOVED AND



#### DEMO FLOOR PLAN - KEY NOTES (CONTINUED):

- [32] EXISTING ROOF CONDUCTOR PIPING TO BE REMOVED AND REINSTALLED TO COMPLETE WORK - REFER TO MECHANICAL.
- (33) EXISTING ROUND DUCTWORK TO REMAIN GENERALLY, BUT THRU WALL DUCTWORK TO BE REMOVED AND REINSTALLED TO COMPLETE WORK - REFER TO MECHANICAL.
- 34 EXISTING SERVICE WINDOW COUNTER AND WALL TO BE REMOVED / MODIFIED FOR NEW COUNTER MODIFICATIONS. SEE NEW WORK PLAN FOR EXTENT OF MODIFICATIONS.
- 35 LINE OF EXISTING WALL MOUNTED ATHLETIC PADDING TO BE REMOVED AND REINSTALLED. INCLUDING MOUNTING BRACKETS AND FASTENERS.
- 36 EXISTING SPORT FLOORING AND BASE TO BE REMOVED AND PREPARED TO RECEIVE NEW SPORT FLOORING FINISH AND BASE. REFER TO NEW WORK PLAN.
- [37] EXISTING VCT FLOOR FINISH AND BASE TO BE REMOVED AND PREPARED TO RECEIVE NEW FLOOR FINISH. REFER TO NEW WORK PLAN.

#### DEMO FLOOR PLAN - KEY NOTES (CONTINUED):

- 27 EXISTING RECESSED FLOOR MAT AND FRAME TO BE REMOVED.
- 28 EXISTING EWC AND CERAMIC TILE FLOOR FINISH AND BASE TO BE REMOVED. EWC TO BE REINSTALLED - REFER TO NEW WORK PLAN. COORDINATE W/ MECHANICAL, PROTECT EXISTING PLUMBING TO REMAIN - REFER TO MECHANICAL.
- [29] EXISTING SCORE BOARD ON STL STRUCTURE ABOVE TO REMAIN. REMOVE AND REINSTALL AS REQ'D TO PROTECT EQUIPMENT AND SYSTEM.
- 30 EXISTING BASKET BALL BACKSTOP WINCH TO BE REMOVED AND REINSTALLED W/ NEW SAFETY STRAP ON FOLDING BACKSTOP SUPPORT STRUCTURE.
- 31 EXISTING FOLDING BASKET BALL BACKSTOP SUPPORT STRUCTURE TO REMAIN. REMOVE AND REINSTALL AS REQ'D TO PROTECT EQUIPMENT. NEW SAFETY STRAP TO BE INSTALLED. REFER TO NEW WORK PLAN.

- 22 EXISTING WALL MOUNTED COAT RACK AND SHELF TO BE REMOVED AND
- REINSTALLED.
- [23] EXISTING RECESSED ELECTRICAL PANEL TO BE REMOVED AND REPLACED -REFER TO ELECTRICAL.
- 24 EXISTING T.V. AND WALL MOUNTING BRACKET TO BE REMOVED AND REINSTALLED - REFER TO TECHNOLOGY AND ELECTRICAL DRAWINGS.
- REINSTALLATION TO PROTECT AND MAINTAIN SYSTEM.
- NEW FLOOR BASE.

#### DEMO FLOOR PLAN - KEY NOTES (CONTINUED):

21 EXISTING WALL MOUNTED EQUIPMENT TO BE REMOVED AND REINSTALLED.

- 25 EXISTING P.A. SYSTEM TO REMAIN COORDINATE WALL REMOVAL AND
- 26 EXISTING BASE AND WALL CABINETS TO BE REMOVED AND REINSTALLED W/

#### DEMO FLOOR PLAN - GENERAL NOTES:

- A. ALL DEMOLITION DRAWINGS AND DEMOLITION DETAILS ARE PROVIDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL DEMOLITION WORK NECESSARY TO ACCOMPLISH NEW WORK. THE DEMOLITION DRAWINGS AND DETAILS MAY NOTE TYPICAL ITEMS IN SOME AREAS, WHICH APPLY IN OTHER AREAS (AND ARE DESIGNATED WITH DASHED, HIDDEN OR STRUCK THRU LINES). COORDINATE ALL DEMOLITION WORK WITH ALL ARCHITECTURAL, CIVIL, STRUCT., MECH. AND ELEC. DRAWINGS. CONTRACTOR RESPONSIBLE TO REFERENCE ALL DRAWINGS/ SPECIFICATIONS TO CONFIRM EXTENT OF DEMOLITION WORK.
- B. ALL REMOVED ITEMS, WALLS, FLOORS CEILING, OPENINGS, ETC ARE TO BE PATCHED/REPAIRED AND PREPPED TO RECEIVE NEW WORK AND/OR FINISHES.
- C. ALL CONSTRUCTION AND DEMOLITION MEANS, METHODS AND SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- D. WALL REMOVAL THAT TERMINATES INTO A WALL OR CEILING TO REMAIN SHALL BE COMPLETELY REMOVED FREE OF PROJECTIONS, READY TO RECEIVE NFW WORK
- E. REMOVE ALL ITEMS PROJECTING FROM EXISTING WALLS OR FLOORS TO REMAIN (BLOCKING, SCREWS, FASTENERS, PIPES, CONDUITS, MOUNTING PLATES, FIXED EQUIPMENT, ETC). PATCH AND REPAIR FOR NEW FINISH.
- F. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND UNDERSTANDING EXISTING CONDITIONS PRIOR TO BIDDING.
- G. CONTRACTOR SHALL PROTECT EXISTING BUILDING ELEMENTS AND SITE FROM DAMAGE CAUSED BY CONSTRUCTION OR CONSTRUCTION TRADES. CONTRACTOR SHALL REPAIR ALL DAMAGED AREAS (IDENTIFIED BY OWNER, ARCHITECT, OR CONSTRUCTION MANAGER) AT NO ADDITIONAL COST.
- H. MAINTAIN EXISTING FIRE RATING WHERE OCCURS AND WHERE POSSIBLE DURING DEMOLITION. REFER TO CODE AND LIFE SAFETY SHEETS FOR MORE INFORMATION AS WELL AS CONSTRUCTION MANAGER'S INSTRUCTIONS.
- ASBESTOS AND OTHER HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER'S ABATEMENT CONTRACTOR PRIOR TO START OF CONSTRUCTION. IF ANY SUSPECTED HAZARDOUS MATERIAL IS ENCOUNTERED. STOP WORK IN THAT AREA AND IMMEDIATELY INFORM THE ARCHITECT, CONSTRUCTION MANAGER, AND OWNER.
- J. DISPOSE OF ALL DEMOLITION MATERIALS LEGALLY OFF-SITE, U.O.N.
- K. REMOVE ALL PICTURES, FRAMES & PLAQUES THAT MAY BE DAMAGED DURING CONSTRUCTION AND RETURN TO OWNER.
- L. CONTRACTOR IS TO DEMO AND PREPARE EXISTING WALL CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL AND ELECTRICAL WORK WITHIN EXISTING WALL.
- M. PREP ALL MASONRY OPENINGS TO RECEIVE NEW TOOTHED-IN MASONRY FOR LIKE NEW APPEARANCE WHERE DEMOLITION OCCURS AND WALL IS VISIBLE.
- N. CONTRACTOR TO COORDINATE EXIST. CONC. SLAB REMOVAL THAT IS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND PLUMBING WITH DEMOLITION CONTRACTOR.
- 0. REMOVE ALL EXISTING EXPOSED CONDUIT NOT IN USE PRIOR TO OR AFTER NEW WORK.

#### DEMO FLOOR PLAN - KEY NOTES:

- 1 EXISTING MASONRY WALL CONSTRUCTION TO BE REMOVED FROM CONC FOUNDATION TO EXISTING UPPER WALL SIDING.
- LINE OF EXISTING CONC WALL FOOTING / FOUNDATION TO BE CAREFULLY REMOVED FOR FOUNDATION / MASONRY WALL RECONSTRUCTION - REFER TO STRUCTURAL.
- LINE OF EXISTING CONC FOOTING / FOUNDATION TO BE CAREFULLY DISCONNECTED FROM COLUMN BASE PLATE AND REMOVED FOR RECONSTRUCTION. COORDINATE BRACING OF STRUCTURE - REFER TO STRUCTURAL. REMOVE EXISTING UPPER WALL SIDING SYSTEM FOR REINSTALLATION AS REQUIRED TO SHORE STRUCTURE.
- 4 LINE OF EXISTING MASONRY WALL TO BE REMOVED FROM CONC FOOTING / FOUNDATION TO UPPER MTL PANEL WALL SYSTEM. NOTE: FOUNDATION IS NOT INTENDED TO BE REMOVED AT THIS WALL. PROTECT CONC FLOOR STRUCTURE. EXISTING ADJACENT MASONRY WALL TO REMAIN - PROTECT DURING DEMO.
- 5 SAW CUT AND REMOVE CONC FLOOR AS REQ'D TO REMOVE AND REPLACE CONC WALL AND COLUMN FOOTING / FOUNDATION.
- 6 EXISTING CONC STOOP, STAIR, AND FOUNDATIONS TO BE REMOVED COMPLETE INCLUDING HANDRAIL / GUARDRAIL AND MASONRY SILL WALL.
- 7 EXISTING DOOR, FRAME AND THRESHOLD TO BE REMOVED INCLUDING LINTEL W/ WALL DEMOLITION AND RECONSTRUCTION.
- 8 EXISTING CONC RAMP, MASONRY SILL WALL AND FOUNDATIONS TO BE REMOVED. COORDINATE W/ SITE AND WALL DEMOLITION.
- 9 EXISTING WINDOW GROUPS TO BE REMOVED INCLUDING ASSOCIATED LINTEL.
- 10 EXISTING DOOR FRAME AND SIDE LIGHTS TO BE REMOVED FOR REPLACEMENT.
- EXISTING BASE CABINETS, WALL CABINETS, GYP BD SOFFIT TO BE REMOVED INCLUDING PLUMBING FOR COMPLETION OF WALL REPAIR / REPLACEMENT. NEW CASEWORK AND PLUMBING TO BE INSTALLED. PROTECT EXISTING WASTE AND SUPPLY PIPING FOR RECONNECTION.
- [ 12 ] EXISTING CONC FLOOR TO BE SAW CUT AND REMOVED AS REQ'D FOR INSTALLATION OF NEW WALL FOUNDATION.
- 13 EXISTING CT FLOOR FINISH TO BE PATCHED AND REPAIRED PROTECT DURING DEMOLITION. REMOVE TILE TO NEAREST UNIFORM UNDAMAGED TILE  $\pm 8"\,\text{FOR}$ REPLACEMENT TILE INSTALLATION. EXISTING CT BASE TO BE PATCHED AND REPAIRED TO NEAREST  $JOINT \pm 6".$
- [14] EXISTING COUNTERTOP, BACK SPLASH, SINK AND WALL MOUNTED MIRROR TO BE REMOVED FOR REINSTALLATION AFTER WALL REPAIR AND REFINISHING.
- [15] EXISTING TOILET PARTITION AND PARTITION MOUNTED ACCESSORIES TO BE REMOVED FOR REPLACEMENT - REFER TO NEW WORK PLAN. PATCH AND INFILL FASTENER / MOUNTING HOLES IN WALL CONSTRUCTION.
- 16 EXISTING WALL MOUNTED PAPER TOWEL DISPENSER AND SOAP DISH TO BE REMOVED AND REINSTALLED TO COMPLETE WORK (V.I.F.). REFER TO ELECTRICAL FOR ADDITIONAL REPAIR / REINSTALLATION ITEMS.
- 17 EXISTING FIRE EXTINGUISHER CABINET TO BE REMOVED AND REINSTALLED.
- 18 EXISTING ELECTRIC WATER COOLER TO BE REMOVED AND REINSTALLED.
- 19 EXISTING CABINET UNIT HEATER TO BE REMOVED AND REPLACED W/ NEW CABINET UNIT HEATER - REFER TO MECH.
- 20 EXISTING RECESSED FLOOR MAT AND FRAME TO BE REMOVED, CLEANED, AND REINSTALLED.

# PARTNERS



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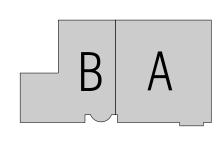
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CONSULTANT

KEY PLAN



# OWNER

#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

**ISSUES / REVISIONS** 

Bidding - Construction 05/28/14

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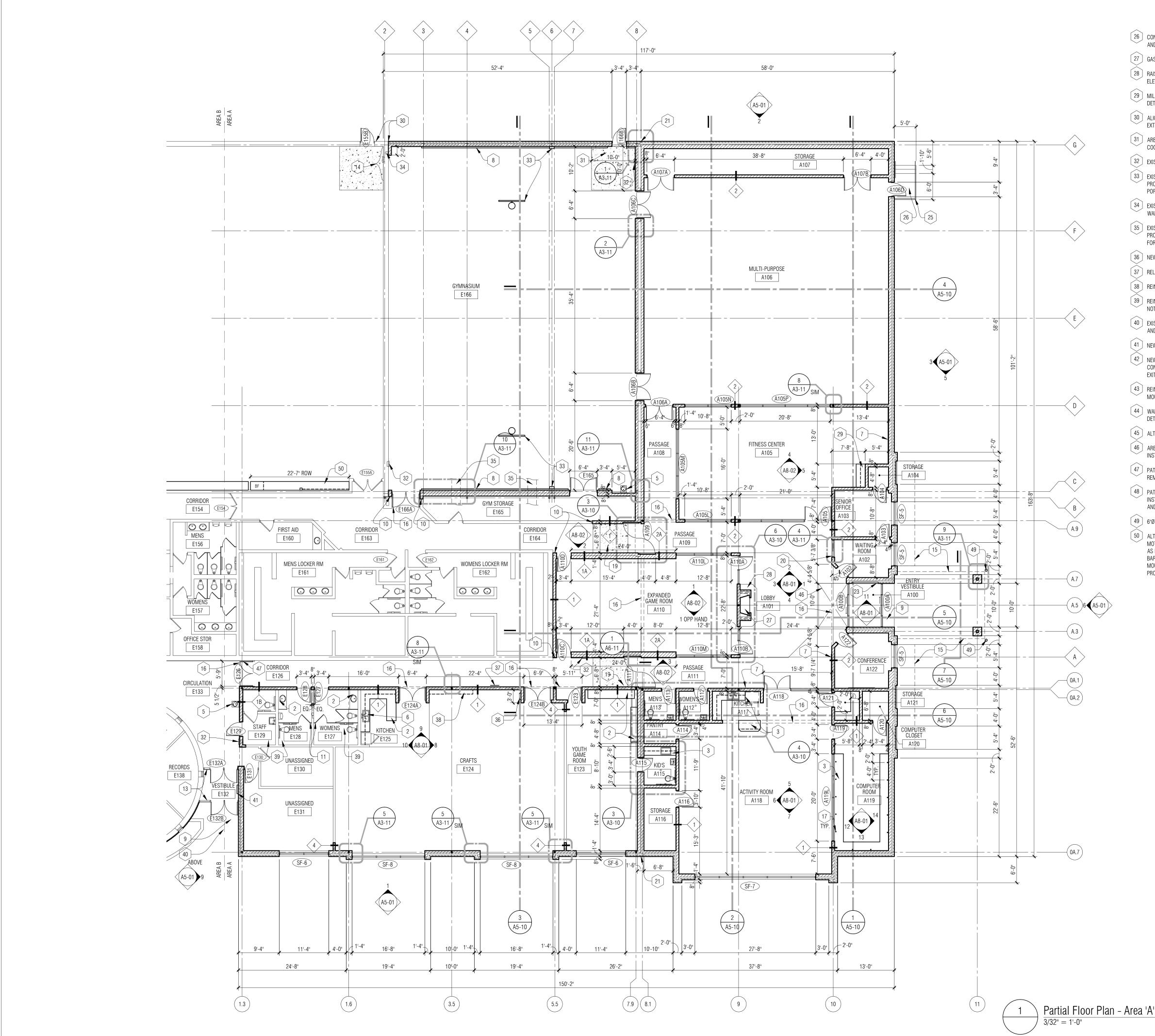
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APPROVED BY

#### DWG

SHEET NAME DEMOLITION FLOOR PLAN



- 26 CONCRETE LANDING AND STAIRS TO GRADE REFER TO SECTIONS AND DETAILS.
- 27 GAS FIREPLACE REFER TO SPECIFICATION AND WALL SECTIONS.
- 28 RAISED HEARTH REFER TO WALL SECTIONS AND INTERIOR ELEVATIONS.
- [29] MILLWORK CUBBIES REFER TO INTERIOR ELEVATIONS AND DETAILS.
- (30) ALIGN NEW BUILDING EXTERIOR FACE WITH EXISTING BUILDING EXTERIOR FACE. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- (31) AREA OF EXISTING DAMAGED CONC FLOOR TO BE INFILLED. COORD W/ DEMO TRADES
- 32 EXIST FIRE EXTINGUISHER CABINET TO BE REMOVED.
- 33 EXIST BASKETBALL BACKSTOP WINCH TO BE REINSTALLED. PROVIDE NEW FOLDING BASKETBALL BACKSTOP SAFETY STRAP PORTER MODEL #PL1000.
- [ 34 ] EXIST ROOF CONDUCTOR TO BE REBUILT INTO INTO REPAIRED WALL CONSTRUCTION W/ C.O. REFER TO MECH.
- 35 EXIST DUCT THROUGH REBUILT/REPAIRED MASONRY WALL. PROVIDE NEW WALL SLEEVE, FIRE STOPPING AND TRIM AS REQ'D FOR REINSTALLATION. PAINT TO MATH EXIST DUCTWORK.
- 36 NEW ELEC PANEL INSTALLATION REFER TO ELEC.
- 37 RELOCATED DEDICATION PLAQUE.
- 38 REINSTALL COAT RACK AND SHELF.
- [ 39 ] REINSTALL REMOVED TOILET ACCESSORIES. REFER TO DEMO NOTES 15, 16.
- 40 EXIST. SOFFIT MATERIAL TO BE REINSTALLED. PROVIDE NEW TRIM AND ANCHOR CLEATS AS REQ'D.
- 41 NEW ELEC CABINET UNIT HEATER. REFER TO MACH/ELEC.
- , <sup>42</sup> ↓ New door in exist opening. Refer to door schedule, verify CONDITION AND SITE IN FIELD. RESTORE FINISHES TO MATCH EXITING/NEW AS SCHEDULED.
- 43 REINSTALL ATHLETIC PAD TO DOOR. PROVIDE ADDITIONAL MOUNTING HARDWARE AS REQ'D. PAINT FULL DOOR BEHIND PAD.
- [44] WALL MODIFICATION AND NEW SERVICE COUNTER. REFER TO DETAIL 2 ON A8-10.
- 45 ] ALT #5 NEW THIN BRICK APPLICATION.
- 46 AREA OF CONC SLAB TO BE DEPRESSED 1/2" FOR CERAMIC TILE INSTALLATION. SET TILE 1/8" ABOVE FLOOR SLAB.
- 47 PATCH AND REPAIR EXIST. VINYL WALL COVERING AT REMOVED/REINSTALLED OR REPLACED WORK SCOPE ITEM.
- 48 PATCH AND REPAIR VINYL WALL COVERING AT NEW FLOOR BASE INSTALLATION THIS AREA - TYP. REFER TO FINISH FLOOR PLAN AND SCHEDULE.
- 49 6"Ø CONC FILLED STEEL PIPE BOLLARD SEE DETAIL 3 ON A6-22

50 ALT #2 - TELESCOPING BLEACHER INSTALLATION - NEW MOTORIZED TELESCOPING BLEACHER INSTALLATION (4 SECTIONS AS INDICATED) W/ HANDHELD CONTROLLER, SAFETY RAIL AND BARRIER FREE SEATING POSITION. REFER TO SPEC. SURFACE MOUNT ELEC POWER AND RUN HORIZONTAL BEHIND BLEACHER. PROVIDE EMERGENCY DISCONNECT.

- FLOOR PLAN GENERAL NOTES:
- A. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL - SEE WALL TYPES FOR ACTUAL THICKNESS.
- B. COORDINATE SIZE AND LOCATION OF ALL DUCT, SHAFT AND LOUVER OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS.
- C. ALL EXPOSED CORNERS OF MASONRY BLOCK ARE TO BE BULLNOSED.
- D. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- E. EXISTING MASONRY WALL INTERSECTIONS WHICH ARE LEFT EXPOSED AFTER DEMOLITION OF ADJACENT MASONRY CONSTRUCTION MUST BE PATCHED AND REPAIRED WITH NEW MASONRY OR EXISTING BRICK VENEER, TOOTH-IN TO MATCH EXISTING COURSING AND BOND PATTERN, TYPICAL AT ALL LOCATIONS.
- F. ALL NEW WALLS TO EXTEND TO UNDERSIDE OF DECK- REFER TO WALL TYPES ON DRAWING A0-04 FOR CONSTRUCTION METHOD.
- G. REFER TO STRUCTURAL DRAWING FOR BEARING WALLS, COLUMN SIZES AND LOCATIONS.
- H. FIRE RATED PARTITIONS ARE INDICATED ON CODE PLANS.
- I. REFER TO FINISH FLOOR PLANS FOR ALL FLOOR PATTERNS, FLOOR TRANSITIONS AND MARKER/TACKBOARD DESIGNATIONS.
- J. REFER TO DRAWING A0-01 FOR ABBREVIATIONS AND OTHER SYMBOL DEFINITIONS.
- K. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR INSTALLATION OF NEW EQUIPMENT, WIRING, ETC. AT EXISTING WALLS. ALL ITEMS ARE TO BE INSTALLED WITHIN EXISTING WALLS - REMOVE AND REINSTALL MASONRY (TOOTH-IN) AT ALL LOCATIONS.
- L. REFER TO SECTION DETAILS FOR TYP. WALL CONSTRUCTION, FLASHING, INSTALLATION.
- M. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR REMOVAL OF EXISTING EQUIPMENT WITHIN EXISTING CONSTRUCTION - TOOTH-IN NEW MASONRY BLOCK AND AND PREP FOR NEW FINISH.
- N. FIELD VERIFY ALL EXISTING OPENINGS TO RECEIVE NEW WORK PRIOR TO FABRICATION OF ANY FRAME TYPES - NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 0. AT ALL LOCATIONS WHERE GYPSUM BOARD WALL INTERSECTS PERPENDICULAR TO MASONRY BLOCK WALL CORNER, THE GYPSUM BOARD IS TO BE SET BACK 1" FORM BULLNOSE OF BLOCK.
- P. REFER TO CODE PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS / CABINETS TO BE INSTALLED SEMI-FLUSH. REFER TO WALL CONSTRUCTION.
- Q. NOTE: CONCRETE FLOOR REPLACEMENT NECESSARY FOR WALL REMOVAL/RECONSTRUCTION IS INCLUDED IN THE NEW WORK BUT NOT INDICATED ON NEW WORK PLAN. REFER TO DEMOLITION PLAN FOR LOCATION OF FLOOR CONSTRUCTION INDICATED FOR REMOVAL AS REQUIRED TO COMPLETE FOUNDATION WALL DEMOLITION. COORD QUANTITY NECESSARY W/ DEMOLITION CONTRACTOR PRIOR TO BIDDING.

#### FLOOR PLAN - KEY NOTES:

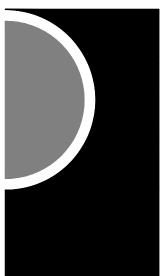
- 1 PATCH / REPAIR AND PAINT WALL AT LOCATION OF REMOVED WALL/ MILLWORK OR EQUIPMENT.
- 2 EXISTING RELOCATED CASEWORK / MILLWORK REFER TO INTERIOR ELEVATIONS.
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- 4 PLUMBING FIXTURE REFER TO MECHANICAL.
- 5 ELECTRIC WATER COOLER REFER TO MECHANICAL.
- 6 KITCHEN EQUIPMENT (PROVIDED BY OWNER) INSTALLED BY CONTRACTOR.
- 7 MARKER BOARD / TACK BOARD REFER TO FINISH FLOOR PLANS.
- 8 EXIST SAFETY WALL PADS REMOVED AND REINSTALLED.
- 9 🗋 SUPPORTED CONCRETE SLAB REFER TO STRUCTURAL AND CIVIL.
- 10 TOOTH-IN NEW MASONRY BLOCK AT LOCATION OF REMOVED
- WALL, DOOR, RECESSED ITEM PREP WALL TO RECEIVE NEW FINISH. REMOVE EXISTING BULLNOSE BLOCK AS OCCURS.
- 11 NEW TOILET PARTITIONS

AND DETAILS.

DETAILS.

- 12 NEW URINAL SCREEN W/ POST SUPPORT
- 13 NEW ALUM / GLASS STOREFRONT SYSTEM TO BE INSTALLED AT SAME LOCATION AS EXISTING REMOVED STOREFRONT - EXACT LOCATION TO CONCEAL EXISTING WOOD BLOCKING.
- [14] REPAIR EXISTING MASONRY AND TUCKPOINT ENTIRE HEIGHT OF WALL AND PREP FOR NEW FINISH.
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- 17 GROMMET IN P.LAM COUNTER TOP COORDINATE EXACT
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- 19 PATCH AND LEVEL CONCRETE FLOOR IN AREA INDICATED. AT REMOVED RECESSED MAT, REFER TO DEMO PLAN
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- 22 INSTALL OWNER SUPPLIED KNOX BOX COORD. LOCATION IN FIELD WITH ARCHITECT AND FIRE MARTIAL.
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- 24 NEW ROOF CONDUCTOR/DRAIN REFER TO MECH.
- 25 HANDRAIL PER CODE REFER TO SECTIONS AND DETAILS.

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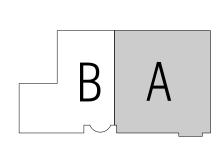
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CONSULTANT

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**ISSUES / REVISIONS** 

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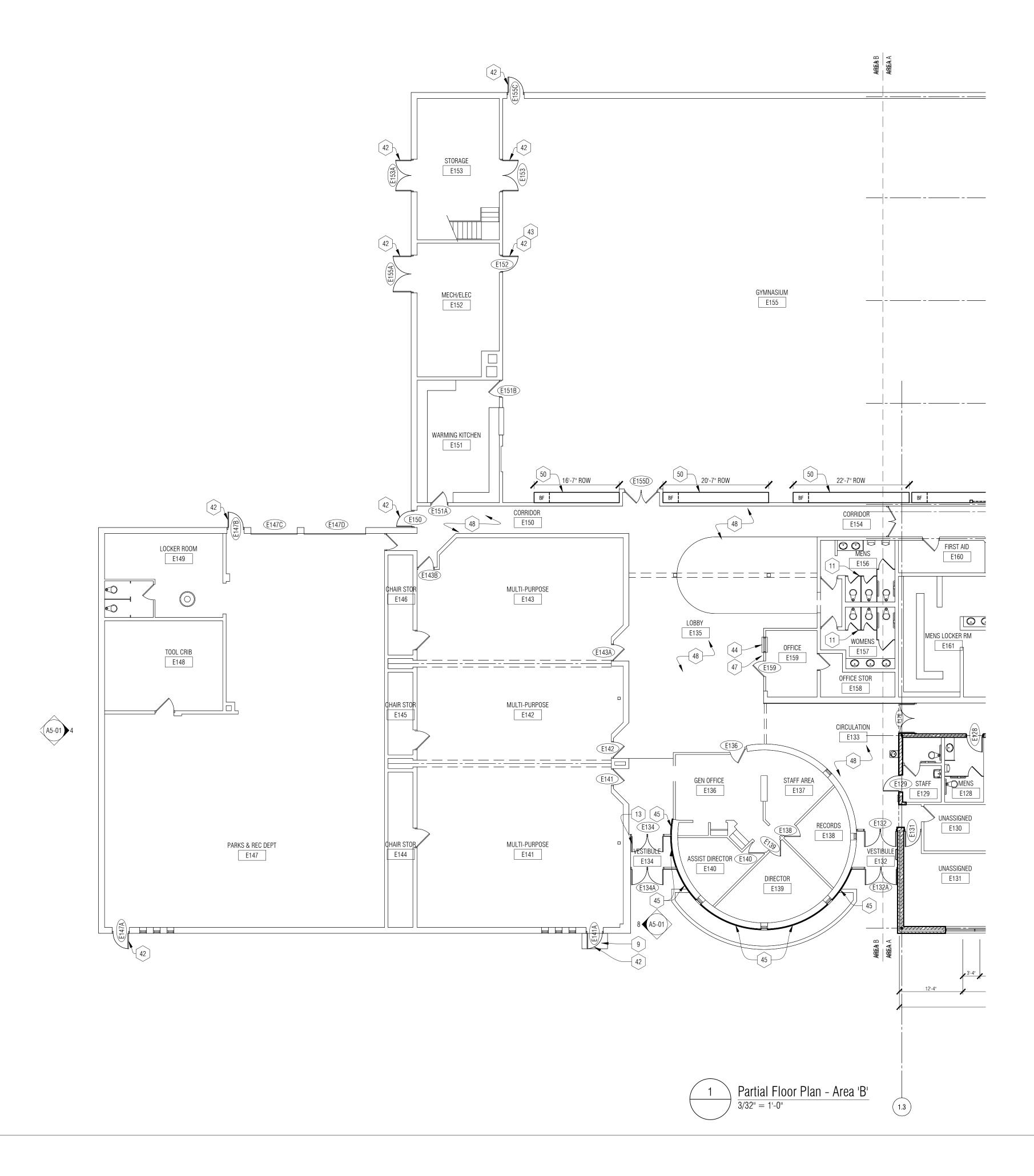
ACS

APPROVED BY

SHEET NAME

DWG

FLOOR PLAN - AREA 'A'



- 26 CONCRETE LANDING AND STAIRS TO GRADE REFER TO SECTIONS AND DETAILS.
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- 8 EXIST SAFETY WALL PADS REMOVED AND REINSTALLED.
- 9 SUPPORTED CONCRETE SLAB REFER TO STRUCTURAL AND CIVIL.
- 10 TOOTH-IN NEW MASONRY BLOCK AT LOCATION OF REMOVED WALL, DOOR, RECESSED ITEM PREP WALL TO RECEIVE NEW

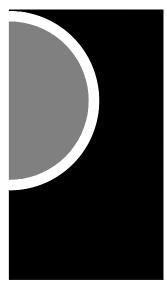
FINISH. REMOVE EXISTING BULLNOSE BLOCK AS OCCURS.

- 11 NEW TOILET PARTITIONS
- 12 NEW URINAL SCREEN W/ POST SUPPORT
- 13 NEW ALUM / GLASS STOREFRONT SYSTEM TO BE INSTALLED AT SAME LOCATION AS EXISTING REMOVED STOREFRONT - EXACT LOCATION TO CONCEAL EXISTING WOOD BLOCKING.
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- AND DETAILS.
- GROMMET IN P.LAM COUNTER TOP COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- 18 LOCATION OF ACCESS CONTROL OR ADA OPERATOR

PUSH-BUTTON.

- 19 PATCH AND LEVEL CONCRETE FLOOR IN AREA INDICATED. AT
- REMOVED RECESSED MAT, REFER TO DEMO PLAN
- 20 TRANSACTION WINDOW REFER TO INTERIOR ELEVATIONS AND DETAILS.
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- 45 HANDRAIL PER CODE REFER TO SECTIONS AND DETAILS.

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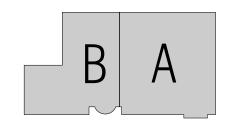
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KEY PLAN



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drawn by FGM

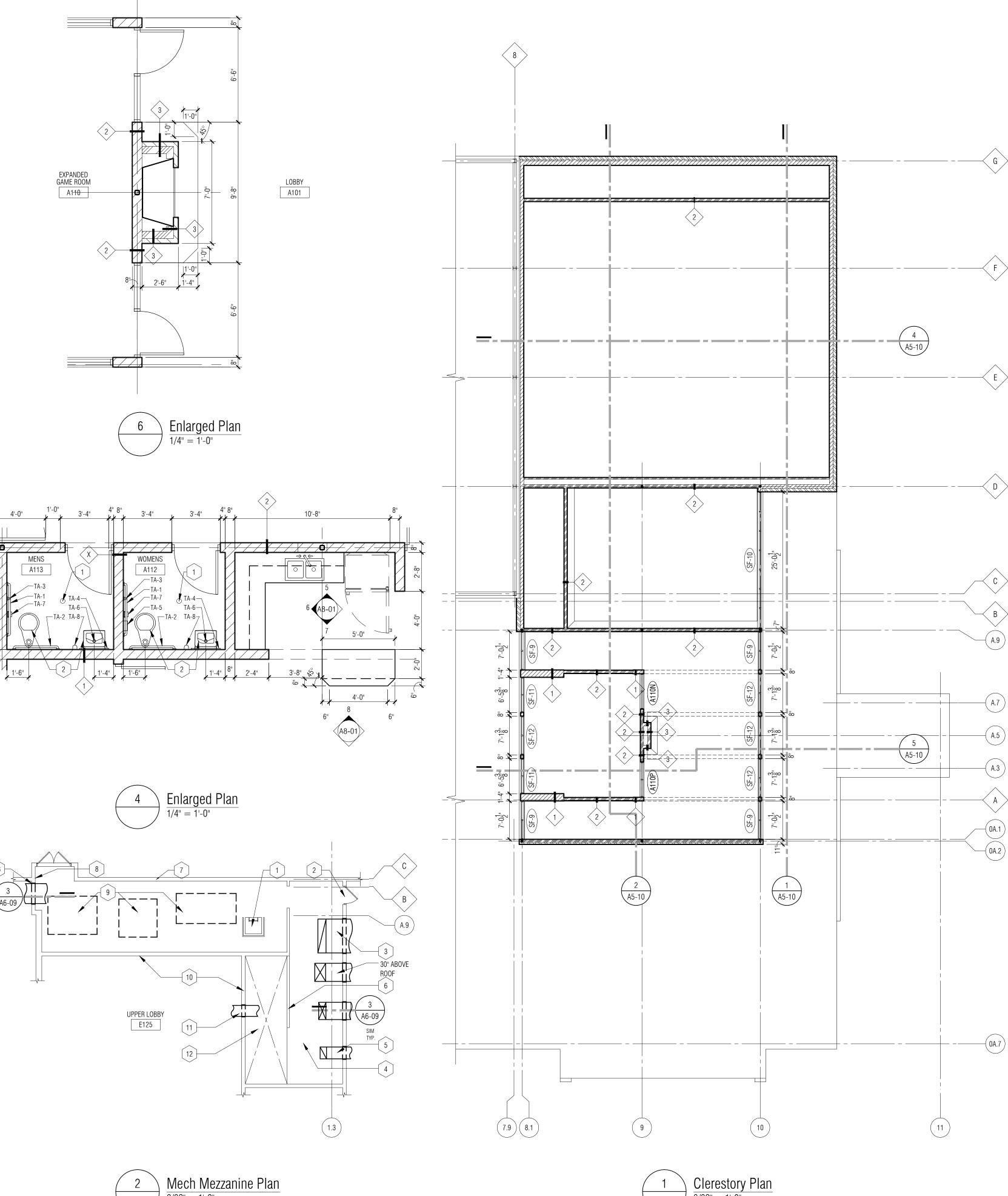
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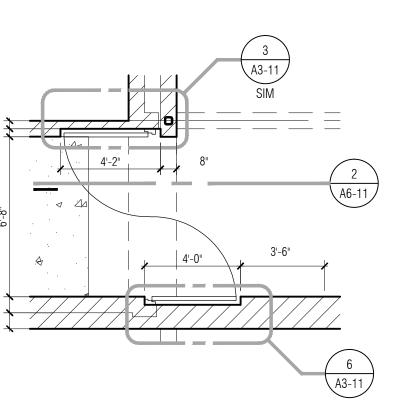
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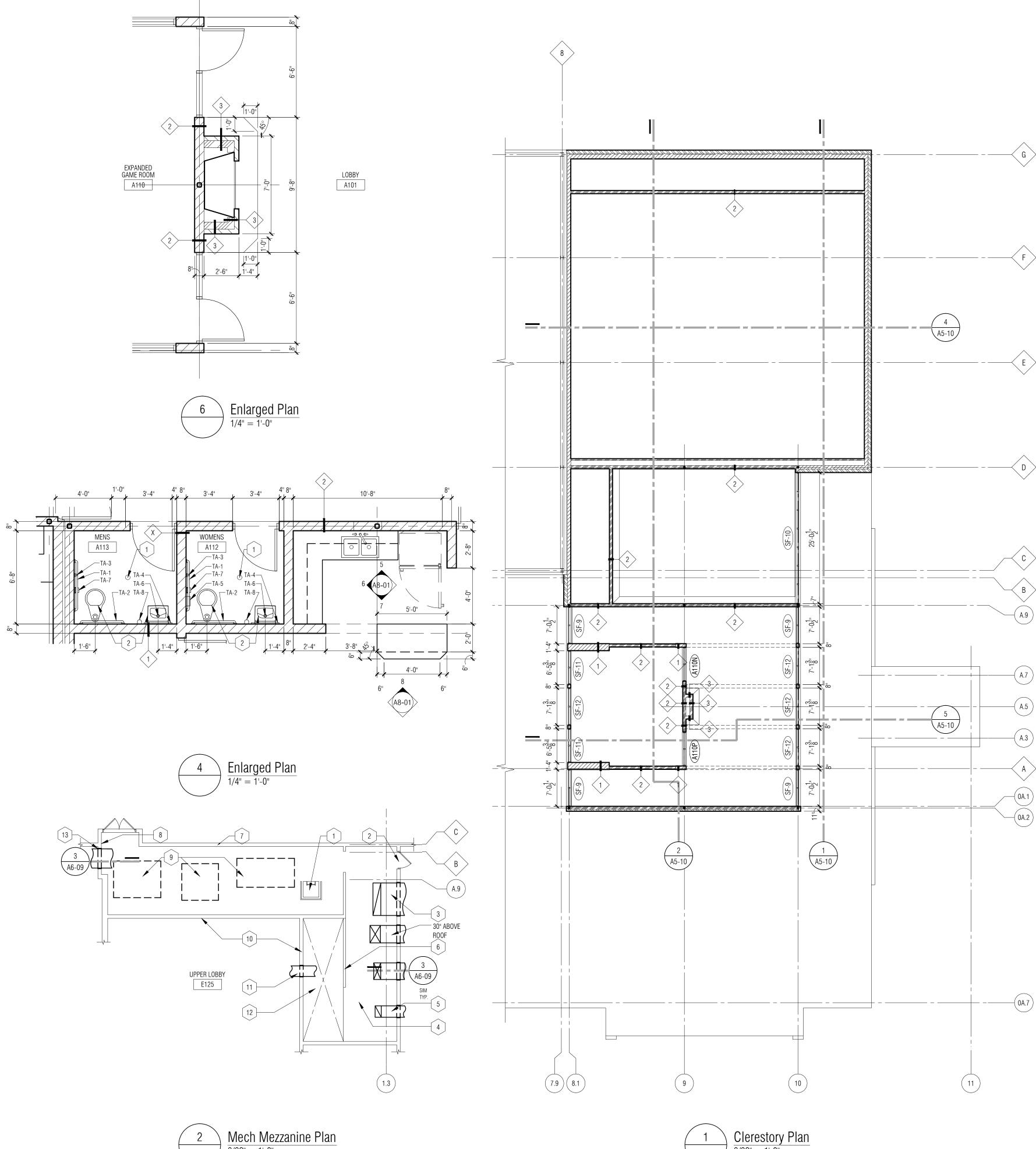
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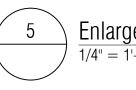
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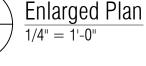
SHEET NAME FLOOR PLAN - AREA 'B'





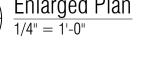


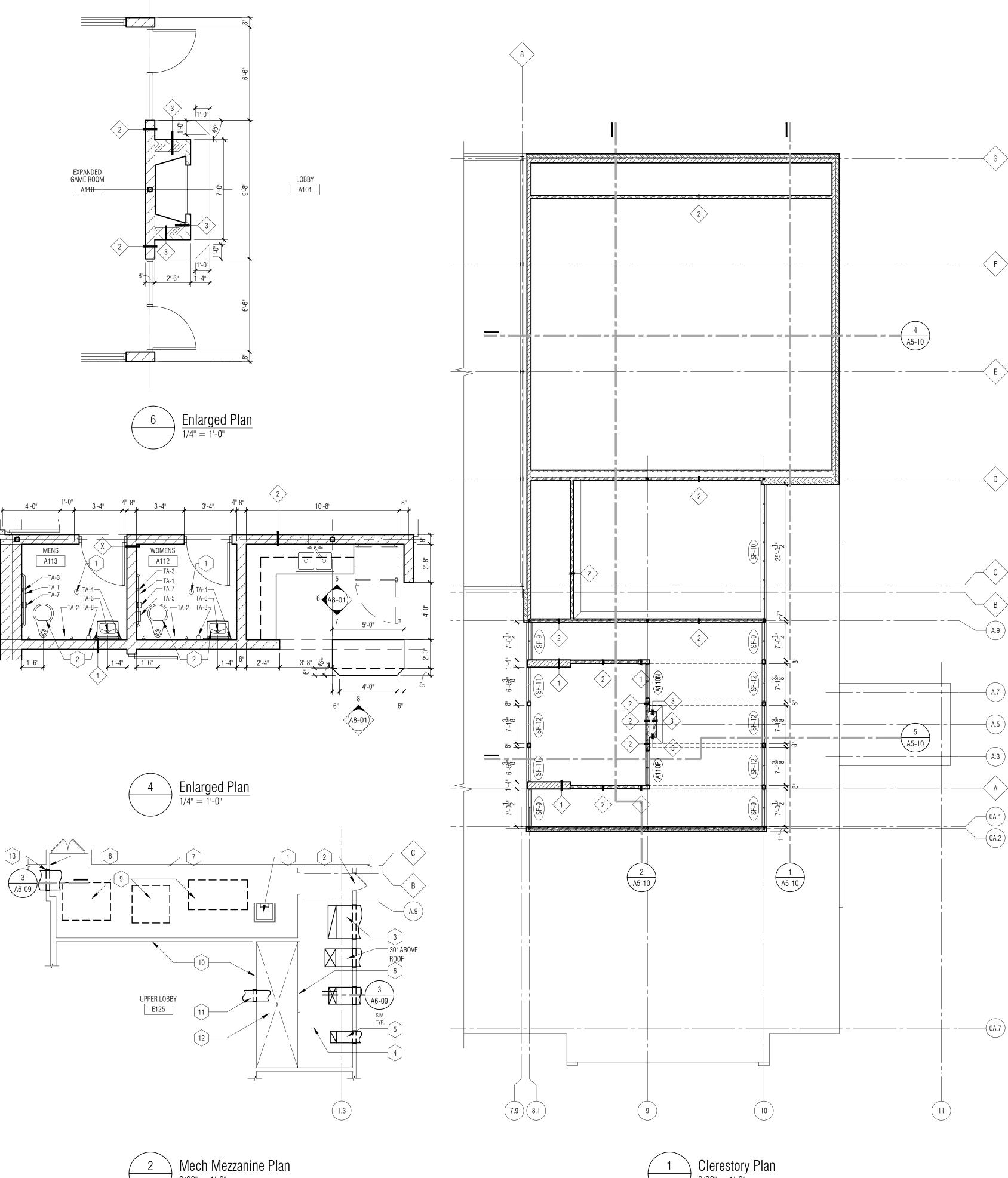


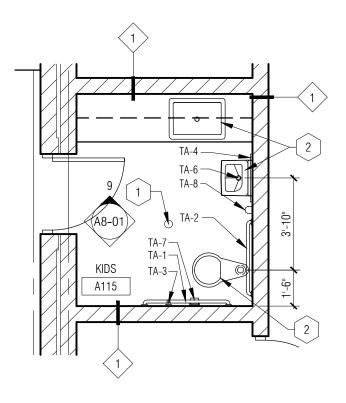


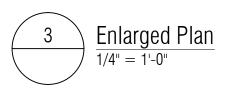












3/32" = 1'-0"

 $\frac{\text{Clerestory Plan}}{3/32^{"}=1^{"}-0^{"}}$ 

#### ENLARGED FLOOR PLAN GENERAL NOTES:

A. REFER TO MECH. AND ROOF PLAN FOR EXTENT OF DUCT RUN IN MECH. MEZZANINE AND OVER ROOF

#### ENLARGED FLOOR PLAN KEY NOTES:

- 1 EXIST. MECH. ROOM FLOOR OPENING AND LADDER TO REMAIN.
- EXIST. ACCESS DOOR TO REMAIN.
- REMOVE EXIST SIDING / WALL CONSTRUCT BETWEEN EXIST SUPPORT GRILLS FOR NEW DUCT PENETRATION. MODIFY AND REINSTALL EXIST. SIDING OR NEW MATCHING THEM AND SEAL AT NEW DUCT PENETRATIONS. COORD. LOCATION, ELEVATION, AND SIZE W/ MECH. REFER TO MECH. DRAWINGS FOR SCOPE.
- 4 EXIST. WALKABLE DECK AREA ADJ. TO MEZZANINE.
- 5 NEW DUCT PENETRATION THRU EXIST METAL SIDING WALL TYP.
- 6 EXIST. PARTIAL WALL CONSTRUCTION W/ INSUL. MODIFY AS REQ'D TO COMPLETE MECH. INSTALLATION.
- 7 EXIST. INTERIOR GYP. BD. WALL CONSTR. TO REMAIN.
- 8 EXTEND GYP. BD. WALL CONSTR. W/ INSULATION AT MODIFIED DUCT PENETRATION AND LOUVER REMOVAL.
- 9 EXIST MECH. AIR HANDLERS, DUCTS AND PIPING TO BE REMOVED AND ALTERED. REFER TO MECH.
- 10 EXIST. FINISHED WALL CONSTR. TO REMAIN.
- [ 11 ] NEW ROUND DUCT PENETRATION. PROVIDE ADDT'L. STEEL STUD FRAMING AND ROUND TRIM RING. COORD. LOCATION AND SIZE WITH MECH.
- 12 AREA OPEN TO FINISHED CEILING BELOW. REMOVE AND REINSTALL AS REQUIRED TO ACCESS WORK AREA.
- [13] REMOVE EXIST EXTERIOR ROOF LADDER FOR NEW DUCT PENETRATION. INFILL LOUVER OPENING AROUND NEW DUCT PENETRATION W/ MATCHING EXTERIOR METAL PANELS AND STEEL GIRT CONSTR. TO MATCH EXIST.

#### GENERAL NOTES - TOILET ACCESSORIES

- A. REFER TO SPECIFICATION SECTION 102800 FOR DESCRIPTION OF TOILET ACCESSORIES.
- B. REFER TO MECHANICAL PLANS FOR ALL PLUMBING FIXTURES.
- C. CENTER FLOOR DRAIN IN ROOM UON. ENSURE 1/8" PER FOOT SLOPE TOWARD FLOOR DRAINS (TYP).
- D. PROVIDE WOOD BLOCKING SUPPORT AT ALL GRAB BAR LOCATIONS PER GRAB BAR MANUFACTURER'S RECOMMENDATION.

#### LEGEND - TOILET ACCESSORIES

TA-1	42" GRAB BAR - HORIZONTAL
TA-2	36" GRAB BAR - HORIZONTAL
TA-3	18" GRAB BAR - VERTICAL
TA-4	24"W X 48"H MIRROR
TA-5	SANITARY NAPKIN DISPOSAL
TA-6	UNDER-LAVATORY GUARD
TA-7	TOILET TISSUE DISPENSER
TA-8	SOAP DISPENSER
TA-9	NOT USED
TA-10	PAPER TOWEL DISPENSER
TA-12	NOT USED
TA-13	COAT HOOK/DOOR STOP
TA-14	DOOR STOP
TA-15	COAT HOOK

### TOILET ROOM KEYNOTES

- 1 FLOOR DRAIN COORDINATE WITH MECHANICAL
- 2 PLUMBING FIXTURE COORDINATE WITH MECHANICAL
- 3 TOILET COMPARTMENTS/PARTITIONS

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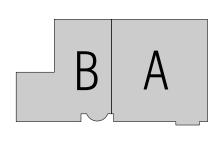
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KEY PLAN



#### OWNER

## Recreation Authority of Roseville & Eastpointe

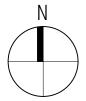
PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

ISSUES / REVISIONS Bidding - Construction 05/28/14



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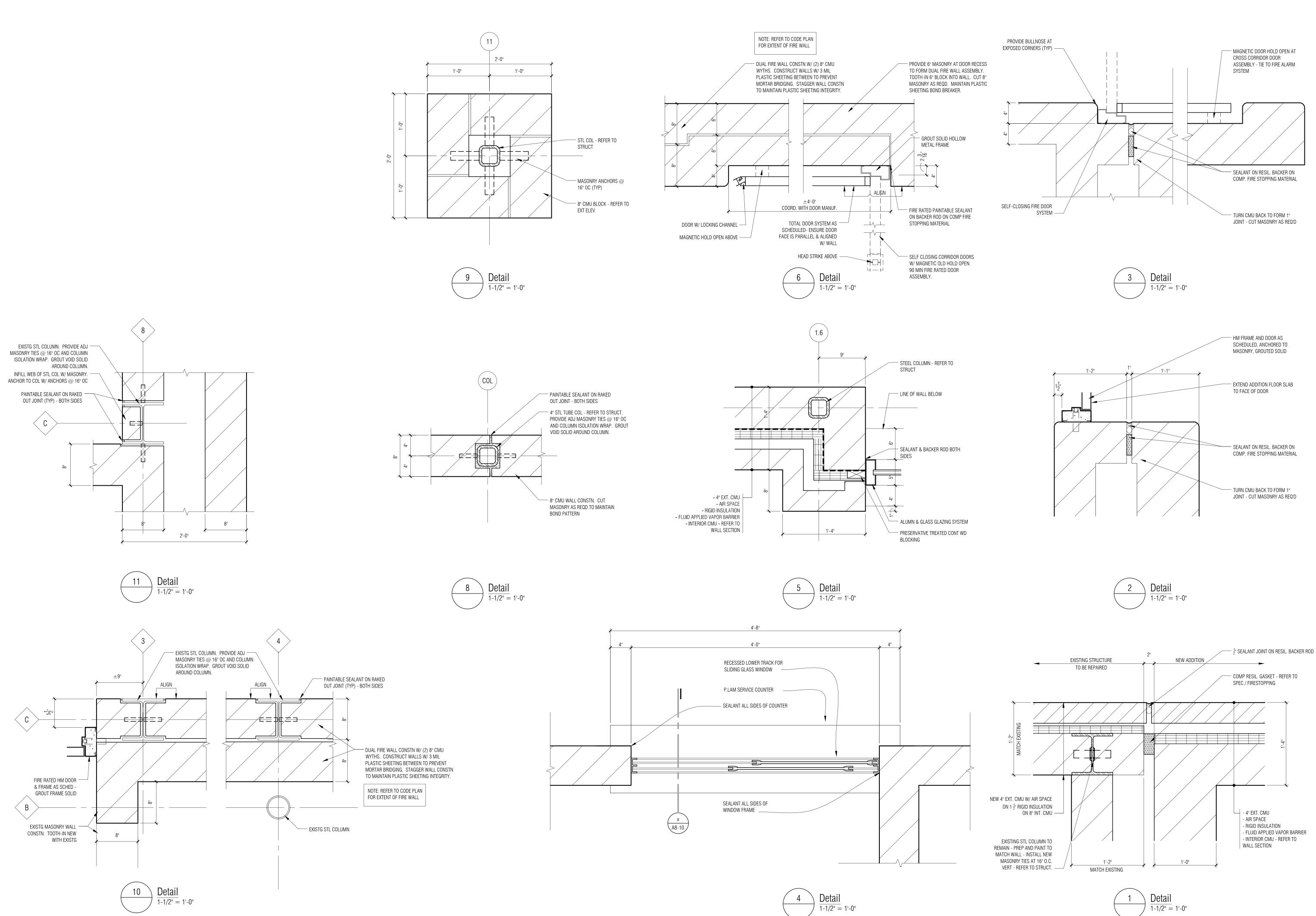
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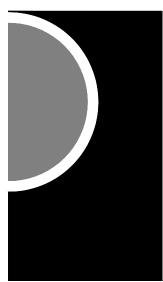
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ENLARGED PLANS





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PROJECT NAME

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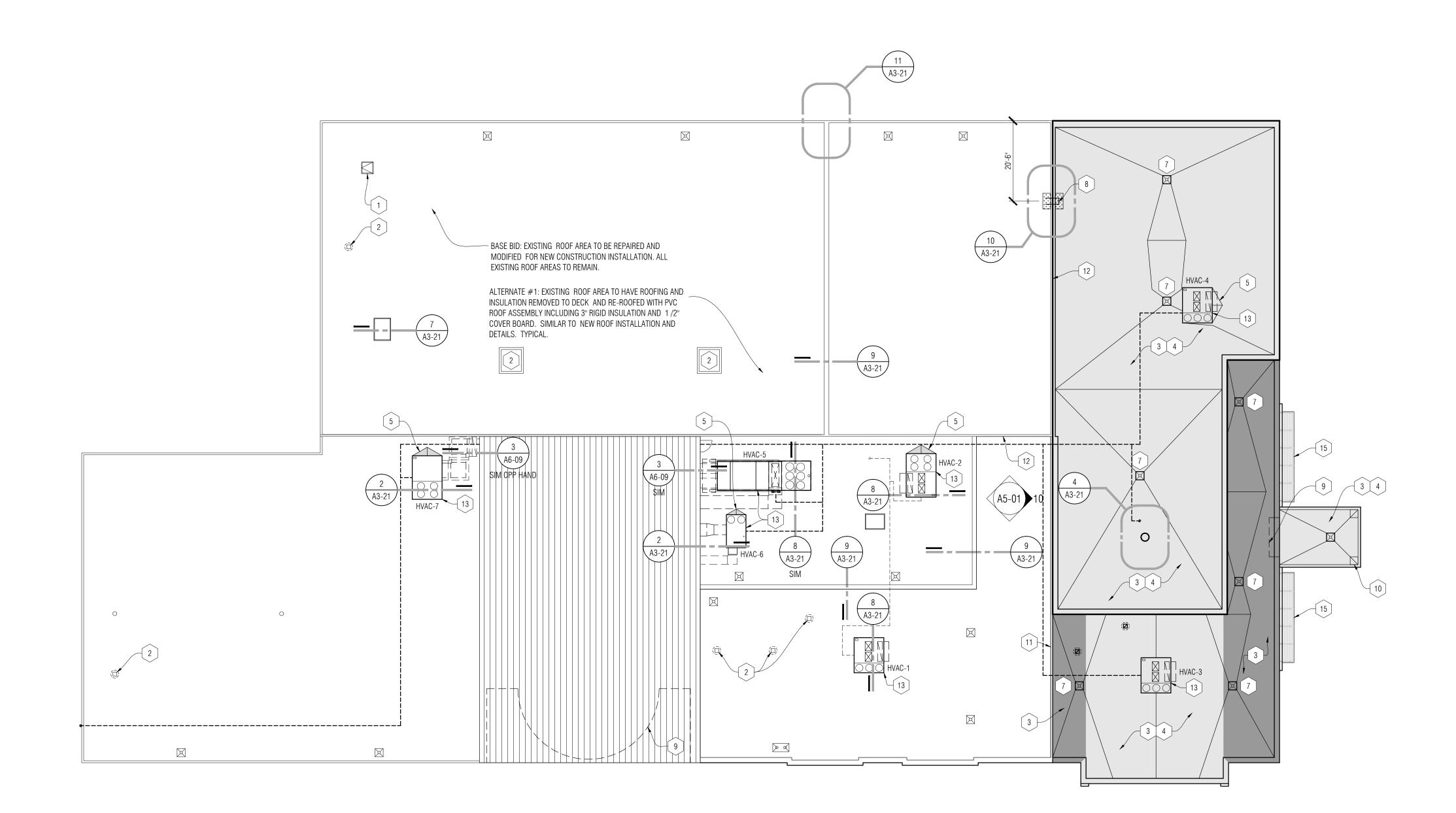
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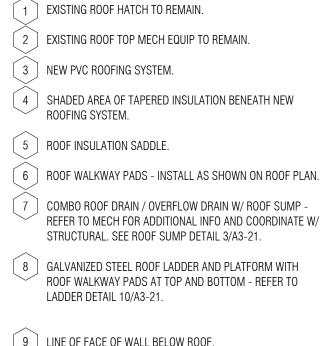
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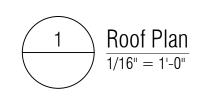
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#### ROOF PLAN - KEY NOTES

1 EXISTING ROOF HATCH TO REMAIN.

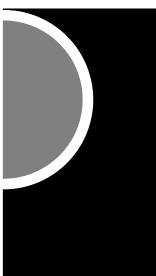
- 2 EXISTING ROOF TOP MECH EQUIP TO REMAIN.
- 4 SHADED AREA OF TAPERED INSULATION BENEATH NEW
- COMBO ROOF DRAIN / OVERFLOW DRAIN W/ ROOF SUMP -REFER TO MECH FOR ADDITIONAL INFO AND COORDINATE W/
- 8 GALVANIZED STEEL ROOF LADDER AND PLATFORM WITH ROOF WALKWAY PADS AT TOP AND BOTTOM - REFER TO
- 9 LINE OF FACE OF WALL BELOW ROOF.
- 10 LINE OF COLUMN BELOW ROOF.
- 11 ROOF EXPANSION JOINT REFER TO ROOF DETAILS AND SECTIONS FOR ADDITIONAL INFORMATION.
- 12 ROOF-TO-WALL METAL EXPANSION JOINT SYSTEM.
- 13 MECHANICAL UNIT WITH CONTINUOUS ROOF CURB REFER TO TYPICAL ROOF DETAILS AND MECH - COORDINATE W/ ELEC AND STRUCT.
- 14 APPROX LOCATION OF ROOF RIDGE LINE LOCATE MECHANICAL UNIT CENTERED ON RIDGE LINE.
- 15 EXTRUDED ALUM SUN SHADE CANOPY BELOW.

#### ROOF PLAN – GENERAL NOTES

- A. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION ROOF RELATED ITEMS.
- B. GUARDRAILS SHALL BE REQUIRED IF ANY ROOF TOP EQUIPMENT, APPLIANCES, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE (INCLUDING ROOF HATCH) ARE INSTALLED WITHIN 10'-0" OF A ROOF EDGE OR AN OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE IS OR OPEN SIDE IS LOCATED MORE THAN 30" ABOVE THE FLOOR, ROOF OR GRADE BELOW. CONTRACT TO NOTIFY ARCHITECT / ENGINEER OF SUCH SITUATION IS NEEDED.
- C. TAPERED INSULATION SHALL SLOPE 1/4" PER 1'-0" TOWARDS ROOF SUMP UNLESS OTHERWISE NOTED. SLOPE VALUES ARE APPROXIMATE. IF SLOPE CANNOT BE ACHIEVED, CONTACT ARCHITECT BEFORE PROCEEDING FURTHER. ARROWS SHOWN REPRESENT DOWN SLOPE OF ROOF.
- D. NEW MECH CURBS SHALL BE PROVIDED CONTINUOUSLY AT ALL SIDES OF MECH UNITS - REFER TO DETAIL 2/A3-20.
- E. REFER TO DETAIL 1/A3-20 FOR ALL PIPE PENETRATIONS COORDINATE LOCATIONS AND QUANTITIES W/ MECHANICAL.
- F. PROVIDE 2 ROWS OF 24"x24" ROOF WALKWAY PADS AROUND ENTIRE MECHANICAL UNIT. TYP FOR ALL MECHANICAL UNITS.
- G. REFER TO ROOF DETAILS SHEET A3-20 FOR ADDITIONAL INFORMATION.
- H. ROOF DEMOLITION AREAS ARE APPROXIMATE. REMOVE MATERIALS FROM ROOF AS NECESSARY TO ACCOMPLISH NEW WORK.
- I. ROOF INSULATION FASTENERS SHALL NOT BE VISIBLE FROM INTERIOR WHERE METAL DECK IS EXPOSED, BUT SHALL BE INSTALLED TO MEET ALL ROOFING WARRANTY AND INSURANCE REQUIREMENTS.
- J. REFER TO MECHANICAL AND ELECTRICAL FOR ALL THRU ROOF PENETRATIONS. FLASH AND SEAL ALL PENETRATIONS IN ACCORDANCE WITH THE ROOF WARRANTY AND ROOF DETAILS.

ROOF PLAN	- LEGEND
	NEW ROOF ON NEW ADDITION CONSTRUCTION WITH TAPERED INSULATION ON LEVEL STRUCTURE.
	NEW ROOF ON NEW ADDITION CONSTRUCTION WITH SLOPING STRUCTURE AND UNIFORM RIGID INSULATION +/- 3 1/2".
	EXISTING STANDING SEAM METAL ROOF TO BE PREPED AND PAINTED IN PLACE. (ALTERNATE #6)
HVAC	NEW ROOF TOP UNIT W/ CURB ADAPTOR AND SUPPORT RAIL AS REQUIRED AT REMOVED EXISTING RTU. REFER TO DETAIL 8/A3-21
HVAC	NEW ROOF TOP UNIT ON FULL CURB WITH NEW DECK OPENINGS ON NEW ROOF CONSTRUCTION. REFER TO DETAIL 2/A3-21
HVAC	NEW ROOF TOP UNIT ON FULL CURB ON EXISTING ROOF DECK W/ STRUCTURAL MODIFICATIONS. REFER TO DETAIL 2/A3-21 (SIM) - REFER TO STRUCT.
VENT	EXISTING GRAVITY VENTILATOR TO HAVE BASE FLASHING RESEALED AND ALUM ROOF COATING APPLIED.
CAP	NEW INSULATED METAL CAP AT REMOVED ROOF TOP EQUIPMENT. REFER TO DETAIL ON RESEAL BASE FLASHING AND APPLY ALUM ROOF COATING.
RD	NEW COMBINATION MAIN AND EMERGENCY ROOF DRAIN ASSEMBLY. REFER TO DETAIL3/A3-21
E RD	EXISTING ROOF DRAIN TO HAVE PAN /FLASHING RESEALED AND ALUM ROOF COATING APPLIED.
0	NEW PLUMBING VENT THRU ROOF. REFER TO DETAIL 5/A3-21
0	EXISTING PLUMBING VENT THRU ROOF TO BE RECOATED WITH ALUMINIZED ROOF COATING MATERIAL. SEAL UPPER EDGE OF VENT FLASHING WERE SPLIT PRIOR TO COATING.
	NEW REPLACEMENT ROOF EXHAUST FAN ON EXISTING CURB. REFER TO DETAIL8/A3-21 (SIM)
$\oplus$	EXISTING VENT STACK TO REMAIN. RESEAL BASE FLASHING W/ A;LUM ROOF COATING AND INSTALL NEW S. STL. UMBRELLA FLASHING. REFER TO DETAIL 1/A3-21
	EXISTING EXPANSION JOINT COVER AND CURB TO BE REMOVED AND REPLACED, INCLUDING NEW TAPERED/END TERMINATION FLASHING. EXISTING BASE FLASHINGS TO BE RESEALED AND ALUM ROOF COATING APPLIED. REFER TO DETAIL 9/A3-21
	NEW ROOF EDGE FLASHING AND CAP AT REBUILT WALL. REFER TO WALL SECTIONS.
	NEW BASE FLASHING INSTALL AT REBUILT WALL OR NEW ADDITION WALL CONSTRUCTION - REFER TO WALL SECTIONS.
	EXISTING / NEW GAS LINE OVER ROOF TO BE PREPPED AND PAINTED. SET WITH SUPPORTS PER DETAIL 6/A3-21
	EXISTING COMMUNICATION WIRE OR ELECTRICAL CONDUIT OVER ROOF OR MOUNTED ON WALL TO BE REMOVED AND RESET TO COMPLETE WORK . REFER TO ROOF KEY NOTES.
± 0" FT	DEPTH OF RIGID INSULATION.
◆ 0'-0" T.O.D.	INDICATES TOP OF DECK ELEVATION.

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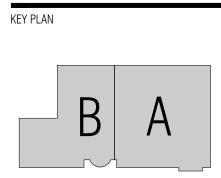
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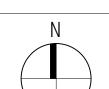
#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

13-162

PROJECT NO.

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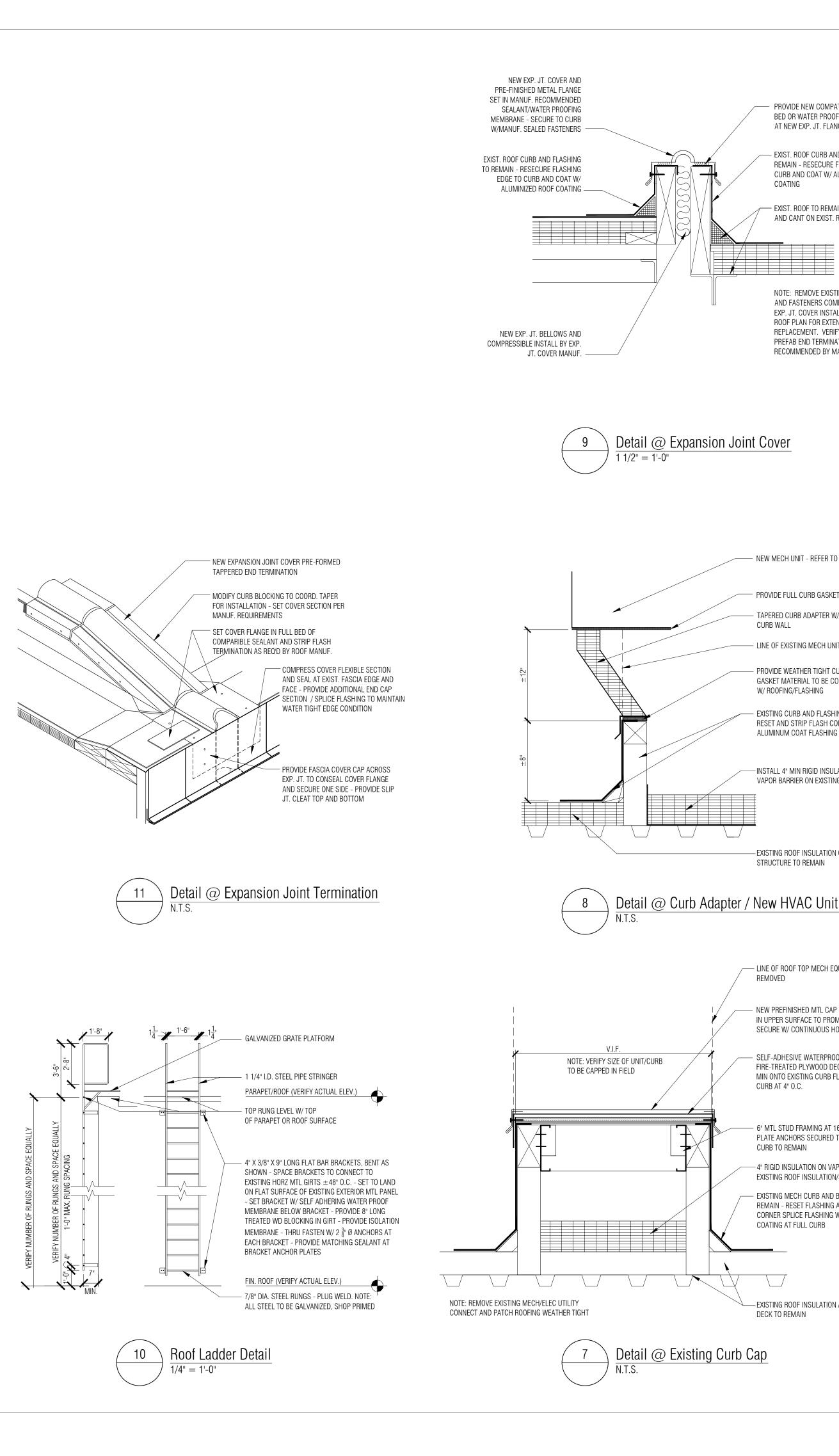


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# ROOF PLAN





– EXIST. ROOF CURB AND FLASHING TO REMAIN - RESECURE FLASHING EDGE TO

CURB AND COAT W/ ALUMINIZED ROOF

COATING

AND CANT ON EXIST. ROOF DECK

NOTE: PROVIDE TEMPORARY SUPPORT

Typical Conduit / Piping Suppor

PIPE

**Typical Plumbing Vent Flashing** 

Typical Heating Vent Through Roof

FOR EXISTING PIPING TO COMPLETE

REROOFING OPERATION

LEAD CAP 1" DOWN

SET NEW LEAD FLANGE IN

NEW STORM

PROJECTION -

NEW / EXIST WD NAILER SECURED

FASTENERS, (2) ROWS STAGGERED

- EACH ROW 24" O.C. - EXISTING

TO DECK WITH APPROPRIATE

WD NAILER TO REMAIN —

COLLAR

SPECIFIED MASTIC -

INTO PIPE

FOR PLUMBING VENTS WITH

LEAD CAPS

PERIMETERS LESS THAN 2", USE

- EXIST. ROOF TO REMAIN ON RIGID INSUL.

NOTE: REMOVE EXISTING EXP. JT. COVER AND FASTENERS COMPLETE FOR NEW EXP. JT. COVER INSTALLATION. REFER TO ROOF PLAN FOR EXTENT OF REPLACEMENT. VERIFY AND PROVIDE PREFAB END TERMINATIONS AS RECOMMENDED BY MANUF.

NEW MECH UNIT - REFER TO MECH

- TAPERED CURB ADAPTER W/ INSULATION SIDE

- LINE OF EXISTING MECH UNIT TO BE REMOVED

PROVIDE WEATHER TIGHT CURB BASKET -

— EXISTING CURB AND FLASHING TO REMAIN -

- INSTALL 4" MIN RIGID INSULATION ON 6 MILL

- EXISTING ROOF INSULATION ON EXISTING

- LINE OF ROOF TOP MECH EQUIPMENT TO BE

- NEW PREFINISHED MTL CAP - PROVIDE CROSS BREAK

IN UPPER SURFACE TO PROMOTE WATER DRAINAGE -

SECURE W/ CONTINUOUS HOLD DOWN CLEATS

SELF-ADHESIVE WATERPROOF MEMBRANE ON  $\frac{3}{4}$ "

6" MTL STUD FRAMING AT 16" O.C. W/ MTL PLATE ANCHORS SECURED TO EXISTING MECH

-4" RIGID INSULATION ON VAPOR BARRIER ON

— EXISTING MECH CURB AND BASE FLASHING TO

CORNER SPLICE FLASHING W/ ALUMINUM ROOF

REMAIN - RESET FLASHING AND PROVIDE

EXISTING ROOF INSULATION/STRUCTURAL DECK

FIRE-TREATED PLYWOOD DECKING - LAP OVER EDGE 4"

MIN ONTO EXISTING CURB FLASHING - SECURE DECK TO

STRUCTURE TO REMAIN

REMOVED

CURB AT 4" 0.C.

CURB TO REMAIN

COATING AT FULL CURB

DECK TO REMAIN

VAPOR BARRIER ON EXISTING DECK

RESET AND STRIP FLASH CORNER AND

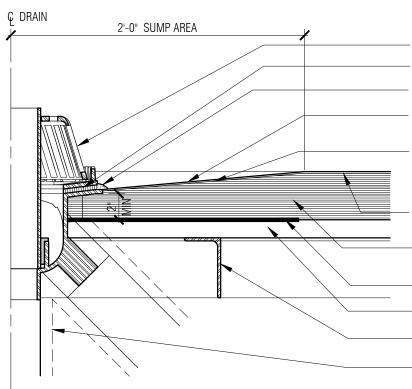
GASKET MATERIAL TO BE COMPATIBLE

W/ ROOFING/FLASHING

ALUMINUM COAT FLASHING

PROVIDE FULL CURB GASKET

CURB WALL



– EXIST. MECH. PIPE - PAINT PIPE AND

RESECURE TO WD NAILER WHERE

- NEW 4" X 4" TREATED WD NAILER

MANUFACTURER REQ'M

- NEW ROLLED LEAD FLASHING 1" DOWN INTO

- NEW STRIP FLASHING PER ROOFING

EXISTING PVC SINGLE PLY ROOF TO BE

REMOVED FOR NEW PIPE PENETRATION

AND FLASHING INSTALLATION

- NEW RIGID ROOF INSULATION AND

COVER BOARD TO MATCH EXISTING.

– EXISTING ROOF DECK - REFER TO

ROOF PLAN

CAULK DRAW BAND WITH SPECIFIED ELASTOMERIC

NEW METAL STACK FLASHING SET IN

FASTENED 3" O.C. - PRIME FLANGE BEFORE

- EDGE SEALANT

PER MANUF. REQ'M

SPECIFIED MASTIC MECHANICALLY

— NEW OR EXISTING ROOF SYSTEM

- NEW OR EXISTING RIGID

BOARD AS OCCURS

EXISTING ROOF DECK

REFER TO ROOF PLAN

INSULATION AND COVER

SEALANT

STRIPPING

— NEW STRIP

FLASHINGS

AS OCCURS

MANUFACTURER

- EXIST. PLUMBING VENT STACK

- NEW MASTIC SEAL AT PERIMETER

- EXIST ROOF SYSTEM ON BOARD

INSULATION ON EXIST. ROOF DECK

← NEW ROOF PROTECTION PAD PER ROOF

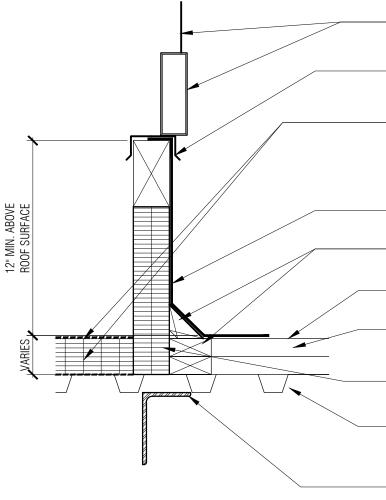
NECESSARY

ROOF SUMP W/ OVERFLOW WATER STOP MASTIC, CONTINUOUS SEALANT BY DRAIN SUPPLIER 24" X 24" MIN ROOF MEMBRANE REINF PLY ROOFING ADHESIVE

ROOFING SYSTEM

- RIGID ROOF INSULATION TAPERED TO PROVIDE DRAIN SUMP - DECK MOUNTING PLATE - ROOF DECK - STEEL ANGLE - PIPE INSULATION





- NEW ROOF TOP MECH. UNIT - REFER TO MECH.

- NEW COUNTER FLASHING / CURB CAP BY EQUIP. SUPPLIER

. EXISTING ROOFING / INSULATION TO BE REMOVED INSIDE OF CURB - REMOVE EXISTING METAL DECK AS NEEDED FOR DUCT PENETRATIONS - REFER TO MECH. - INSTALL NEW 4" RIGID INSULATION ON 6 MILL VAPOR BARRIER ON CURB INTERIOR

NEW CURB FLASHING - SPLICE INTO EXISTING ROOFING AND LAP OVER CURB

- NEW TREATED WD CANT AND BLOCKING -SECURE TO EXIST. METAL DECK

- EXIST. ROOFING SYSTEM - STRIP BACK FOR NEW CURB AND FLASHING INSTALLATION - EXIST. ROOF INSUL. - THICKNESS VARIES

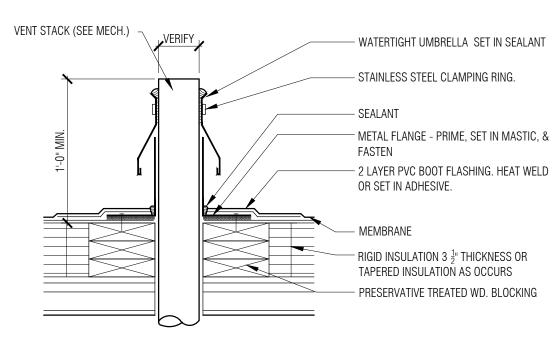
- NEW PRE-MANUF INSULATED CURB - COORD W/ MECH.

- EXIST. STRUCT. METAL DECK - REFER TO MECH AND PARTIAL FRAMING PLAN FOR NEW OPENING THRU DECK

-NEW STL MECH SUPPORT ANGLE - REFER TO STRUCTURAL



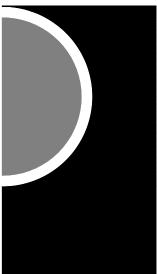
 $\frac{1}{1} \frac{\text{New Unit Curb}}{1 \frac{1}{2}" = 1' - 0"} = \frac{1}{2} \frac{1}{2}$ 





Typical Pipe Stack Flashing

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KEY PLAN

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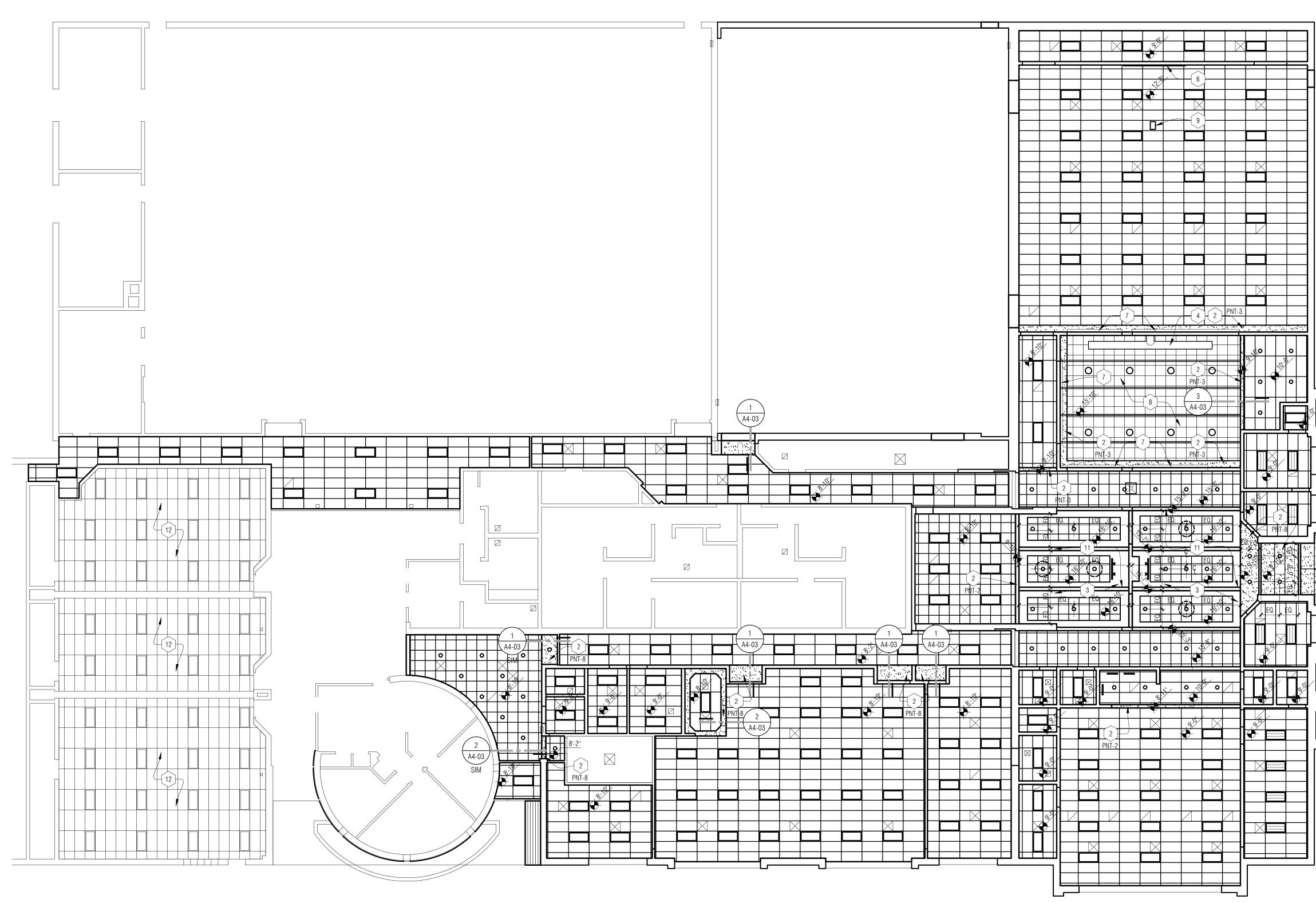
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PROJECT NO. 13-162

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#### REFLECTED CEILING PLAN - GENERAL NOTES

- A. REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS.
- B. REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND SPECIFICATIONS.
- C. REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND
- RETURNS. D. ALL LIGHT FIXTURES ARE TO BE CENTERED WITHIN CEILING
- TILE AND GYP SOFFIT U.O.N.
- E. CEILING GRID IS TO BE CENTERED IN ROOM U.O.N.
- F. AT LOCATIONS WHERE SOFFIT TERMINATES TO A MASONRY CORNER - GYP BRD TO BE SET BACK 1" FROM FACE OF WALL.
- G. PAINT ALL EXPOSED STRUCT, MECH, AND ELEC.

#### **REFLECTED CEILING PLAN - KEY NOTES**

- [1] D.E.F.S. SOFFIT SYSTEM.
- 2 GYPSUM BOARD SOFFIT / CEILING.
- 3 PAINT ROOF DECK, DUCT WORK, EXPOSED STRUCTURAL
- STELL, ETC (PNT-7) U.O.N.
- 4 PAINT EXPOSED DUCT WORK IN FITNESS AREA (PNT-7).
- 5 EXPANSION JOINTS IN D.E.F.S. SOFFIT SYSTEM.
- [ 6 ] PROJECTION SCREEN (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR).
- 7 RECESSED WINDOW TREATMENT SYSTEM
- 8 NEW METAL SUSPENSION SYSTEM ONLY ALT #8 FOR LAY-IN PANELS.
- 9 LCD PROJECTOR (PROVIDED BY OWNER, INSTALLED BY
- CONTRACTOR) COORDINATE W/ ELEC.
- 10 CONTINUOUS SOFFIT VENT (TYP).
- 11 SYNTHETIC WOOD LOOK BEAM COVER
- 12 REPLACE EXISTING CEILING, LIGHTING AND DIFFUSERS -ALT# 3

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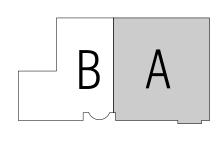
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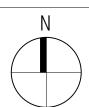
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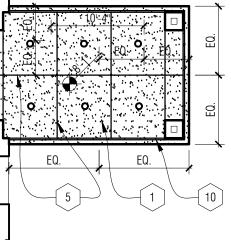


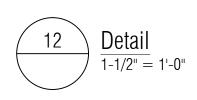
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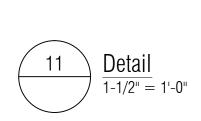
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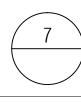
REFLECTED CEILING PLAN



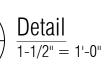




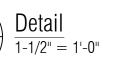




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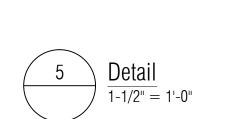


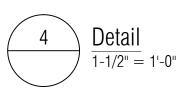


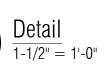


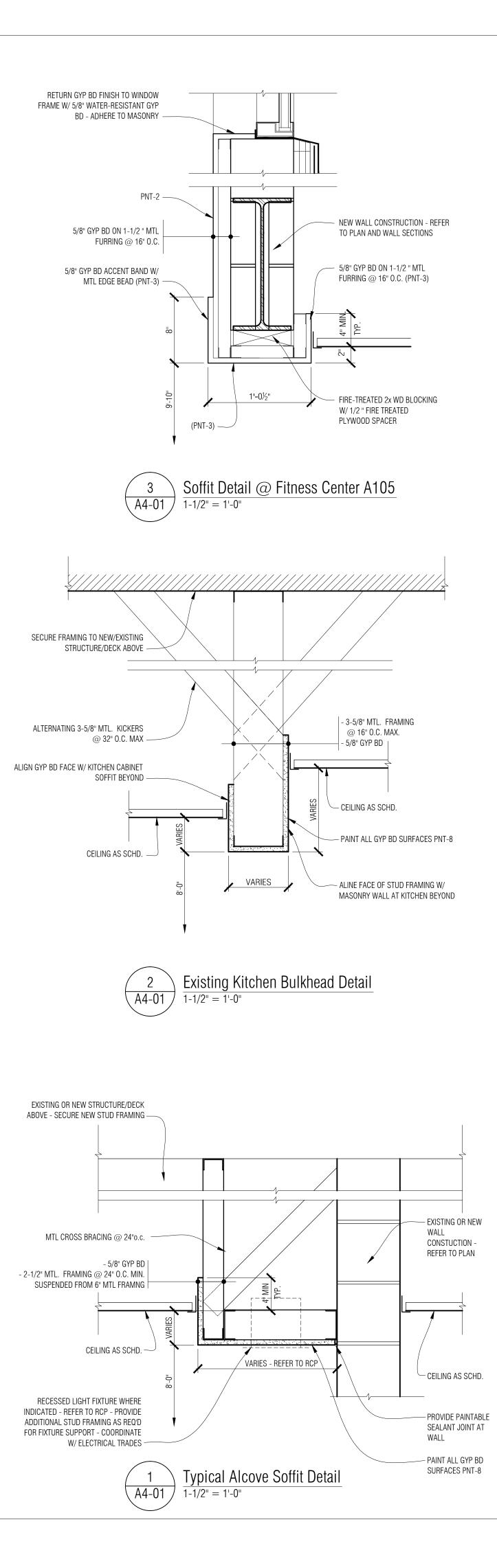




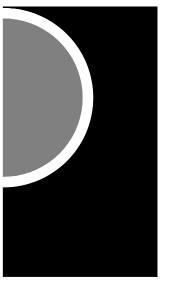








# PARTNERS

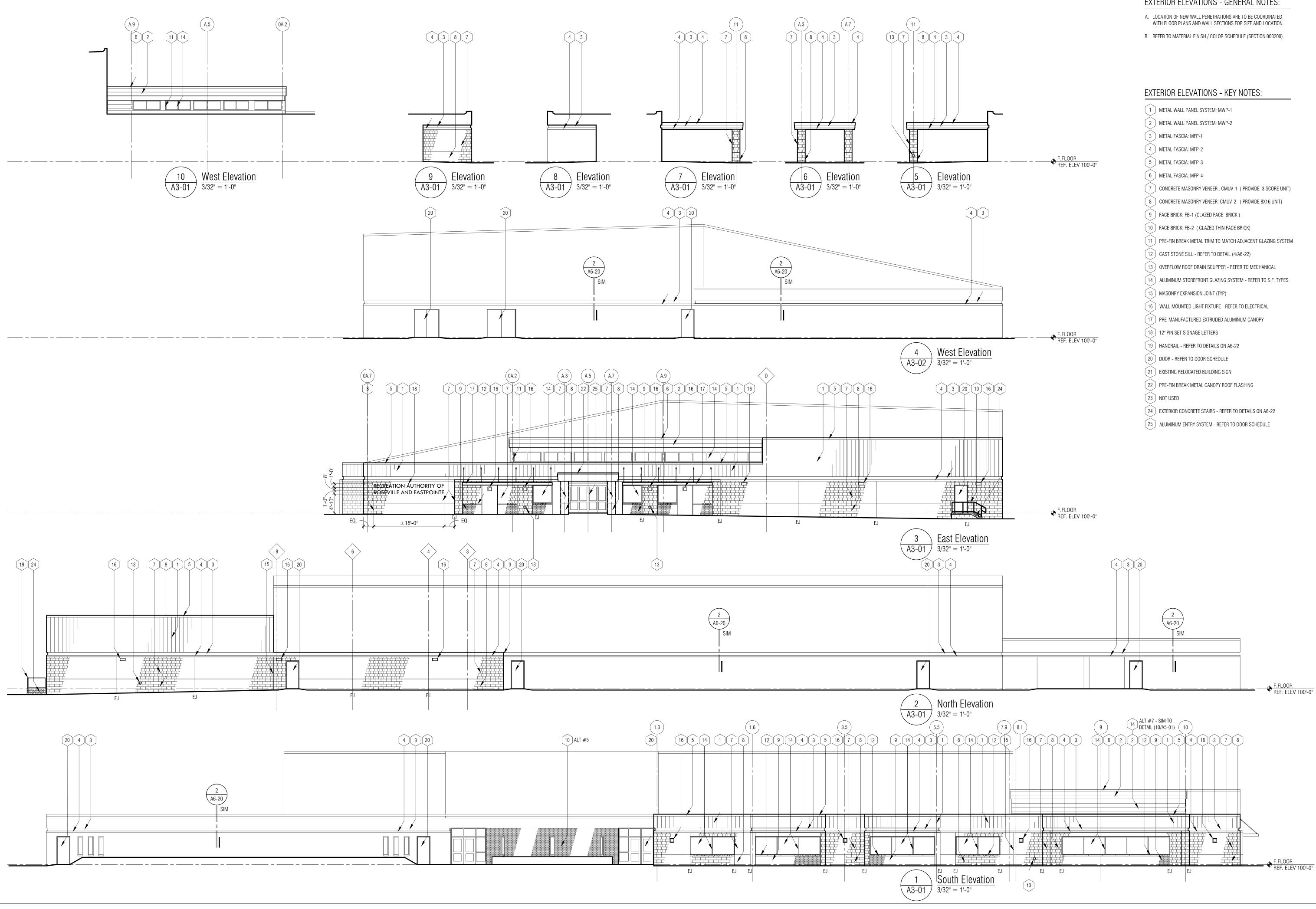


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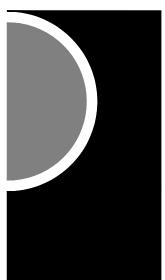
in part, may not be reproduced, without the written consent of PARTNERS in Architecture, PLC. This information is protected under U.S. Copyright Law, all rights reserved. © Copyright 2014 CONSULTANT KEY PLAN OWNER Recreation Authority of Roseville & Eastpointe PROJECT NAME Recreation Authority Addition and Renovation 18185 Sycamore Roseville, MI 48066 PROJECT NO. 13-162 ISSUES / REVISIONS Bidding - Construction 05/28/14





#### EXTERIOR ELEVATIONS - GENERAL NOTES:

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KEY PLAN

#### OWNER

### Recreation Authority of Roseville & Eastpointe

#### PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

ISSUES / REVISIONS Bidding - Construction 05/28/14

DRAWN BY

FGM

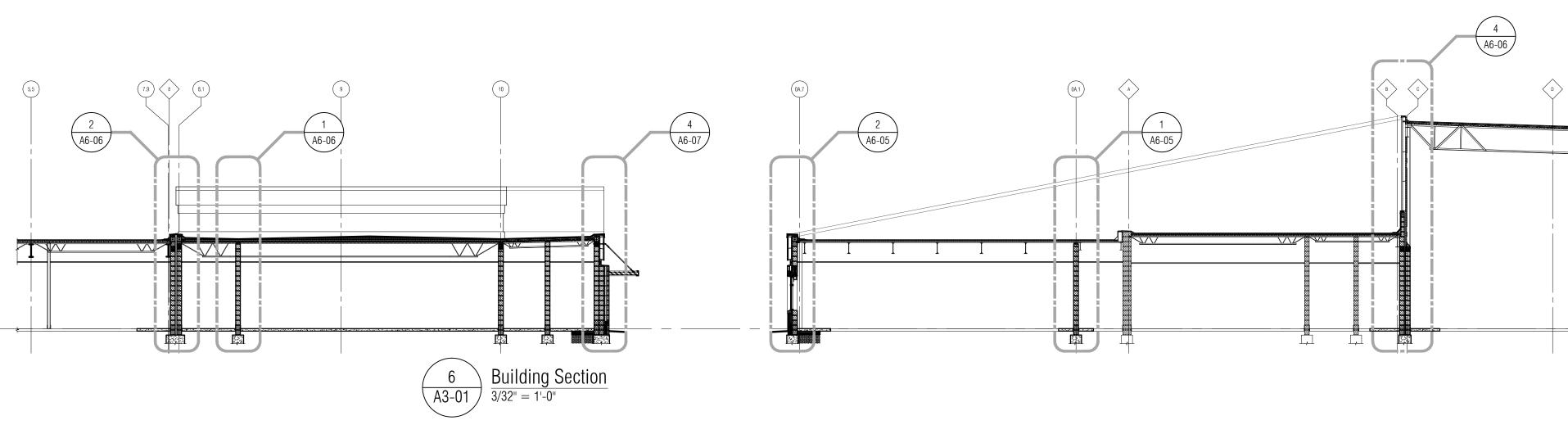
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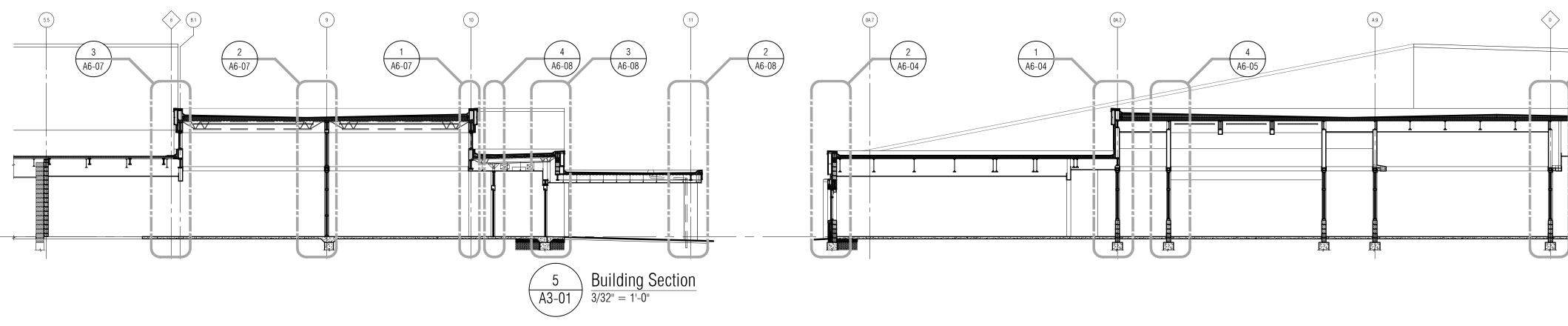
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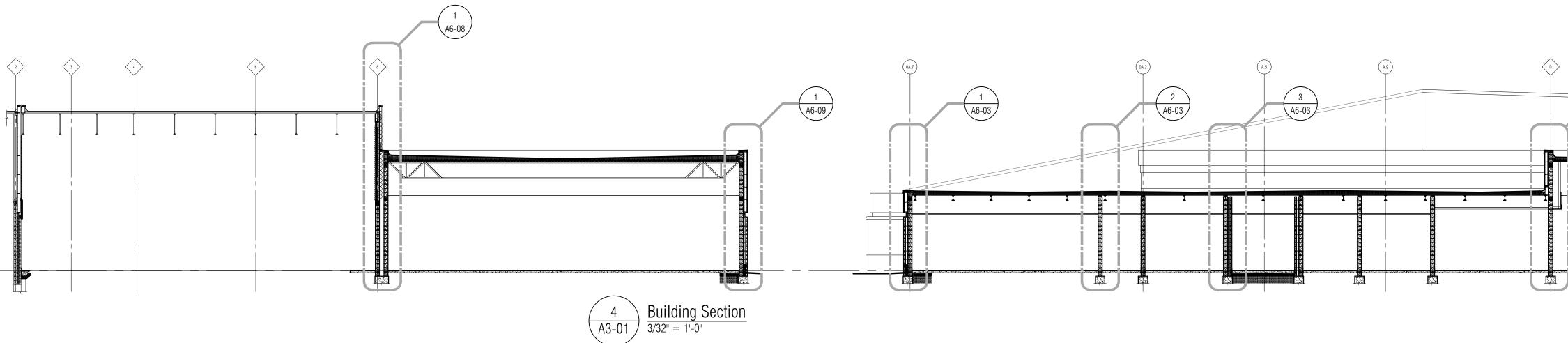
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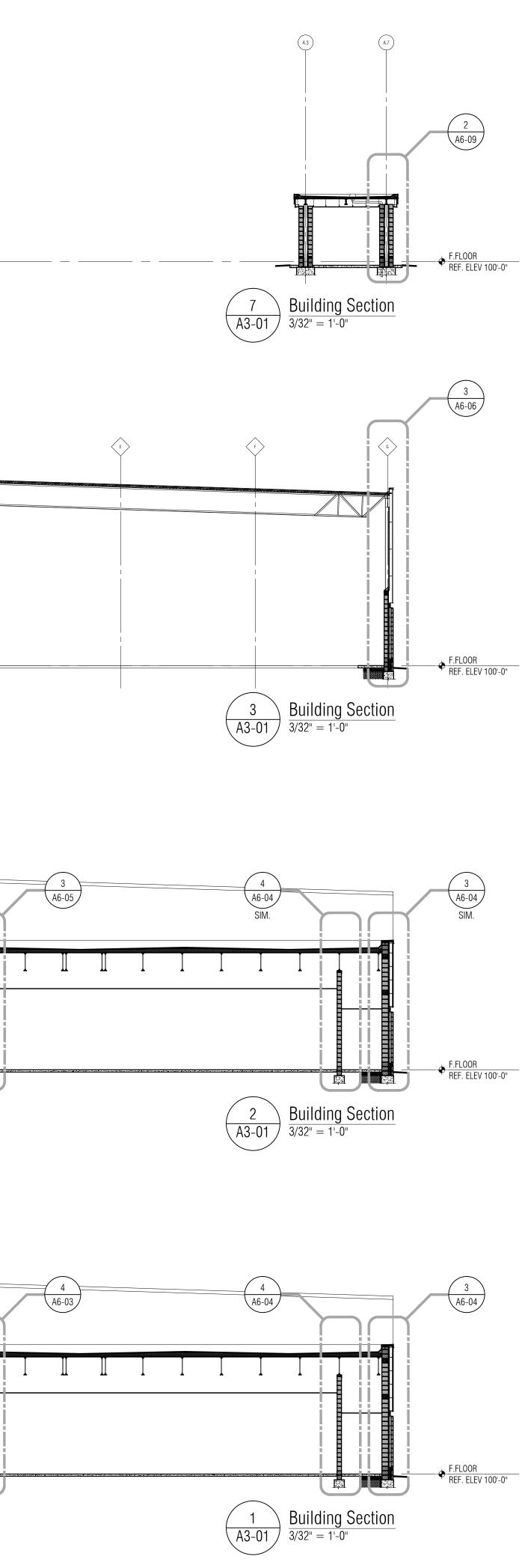
SHEET NAME

EXTERIOR ELEVATIONS









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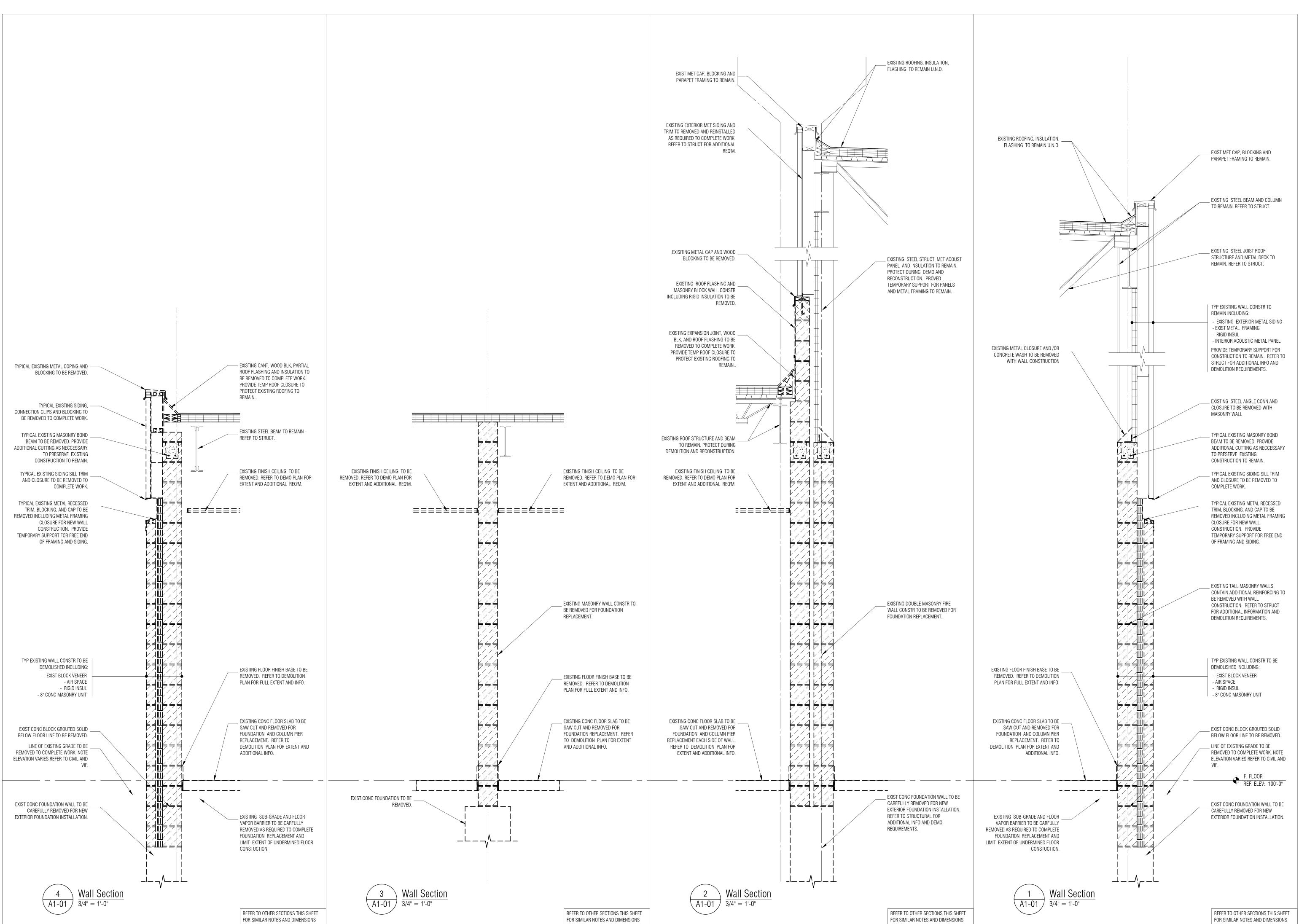
PROJECT NO.

13-162

ISSUES / REVISIONS Bidding - Construction 05/28/14

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SECTIONS





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#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

**ISSUES / REVISIONS** Bidding - Construction 05/28/14

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WALL SECTIONS

EXISTING CANT, WOOD BLK, PARTIAL -----ROOF FLASHING AND INSULATION TO BE REMOVED TO COMPLETE WORK. PROVIDE TEMP ROOF CLOSURE TO PROTECT EXISTING ROOFING TO REMAIN..

> EXISTING STEEL JOIST ROOF — STRUCTURE AND METAL DECK TO REMAIN - REFER TO STRUCT.

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EXISTING FINISH CEILING TO BE REMOVED. REFER TO DEMO PLAN FOR EXTENT AND ADDITIONAL REQ'M.

EXISTING FLOOR FINISH BASE TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FULL EXTENT AND INFO.

EXISTING CONC FLOOR SLAB TO BE SAW CUT AND REMOVED FOR FOUNDATION AND COLUMN PIER REPLACEMENT. REFER TO DEMOLITION PLAN FOR EXTENT AND ADDITIONAL INFO.

\_\_\_\_\_

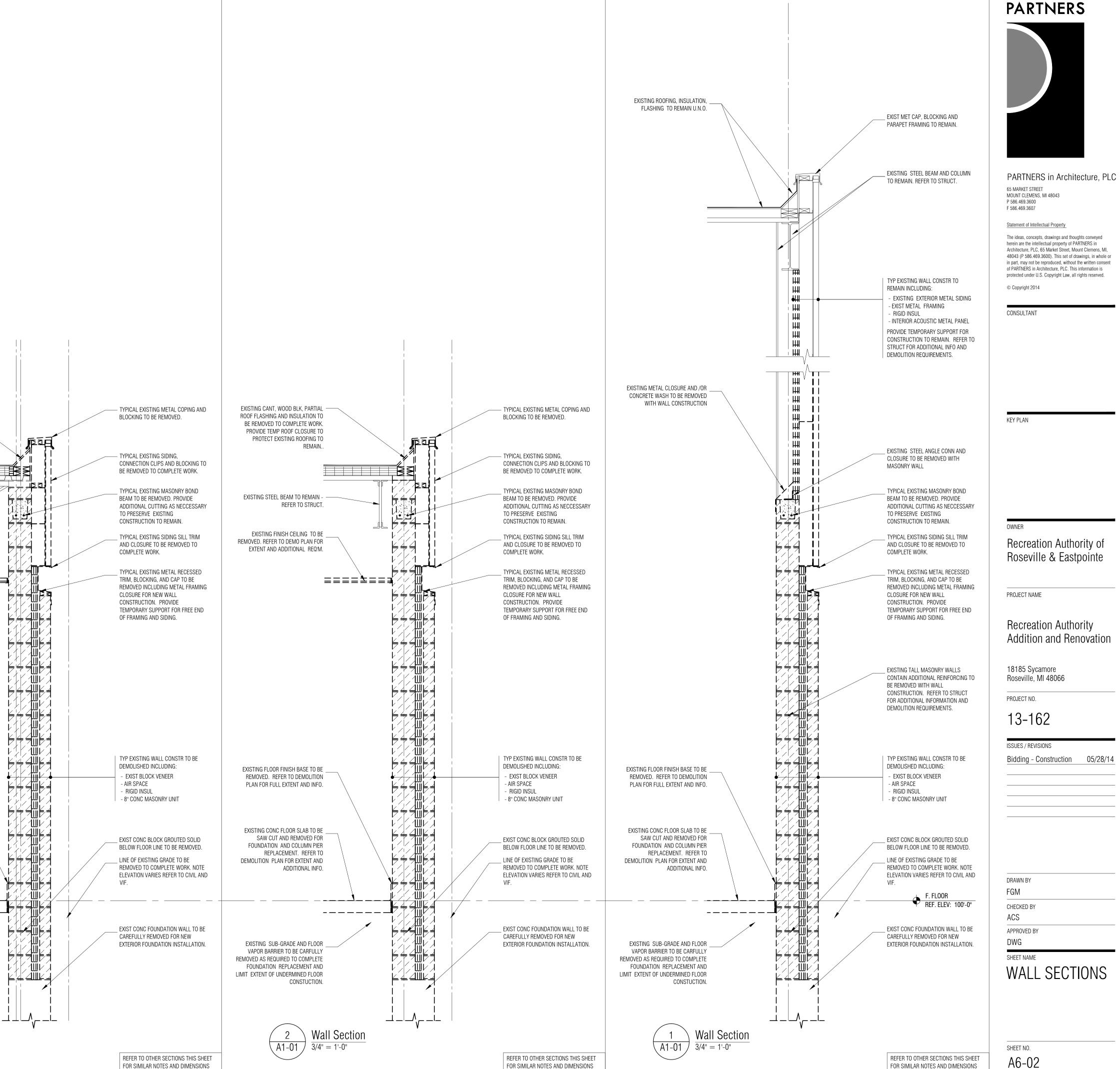
EXISTING SUB-GRADE AND FLOOR VAPOR BARRIER TO BE CARFULLY REMOVED AS REQUIRED TO COMPLETE FOUNDATION REPLACEMENT AND LIMIT EXTENT OF UNDERMINED FLOOR CONSTUCTION.



\_\_\_\_\_

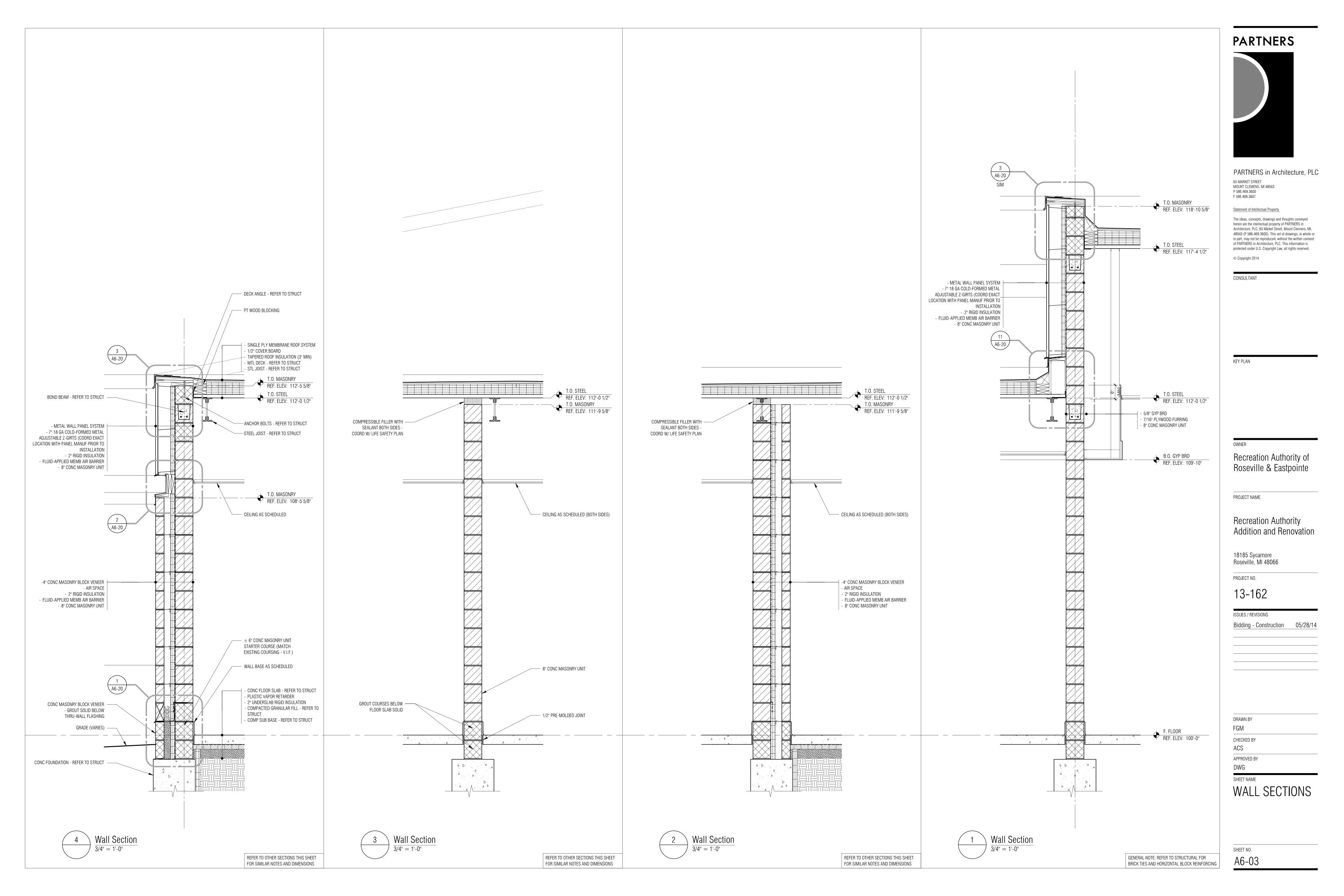
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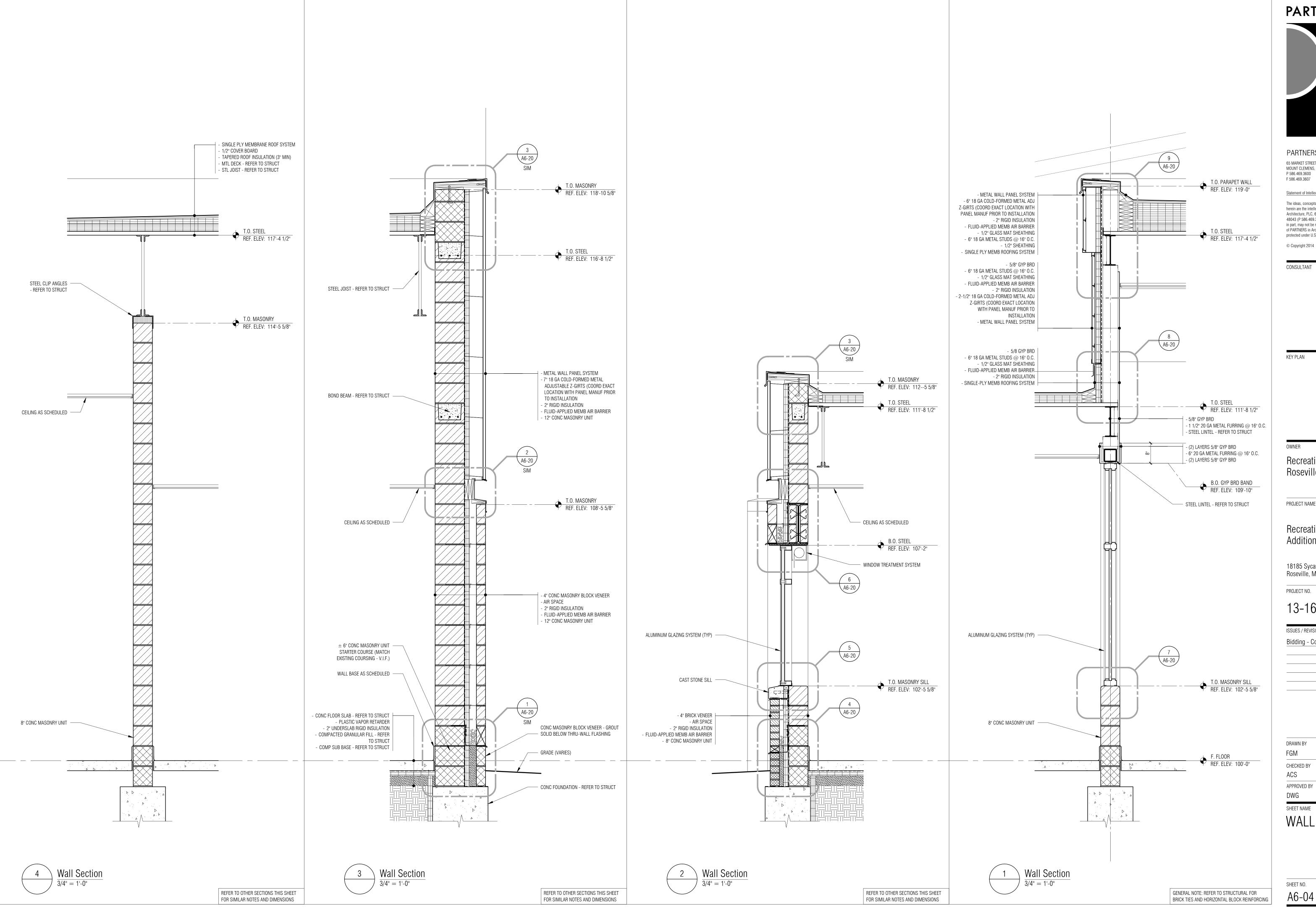




FOR SIMILAR NOTES AND DIMENSIONS

FOR SIMILAR NOTES AND DIMENSIONS





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PROJECT NAME

Recreation Authority Addition and Renovation

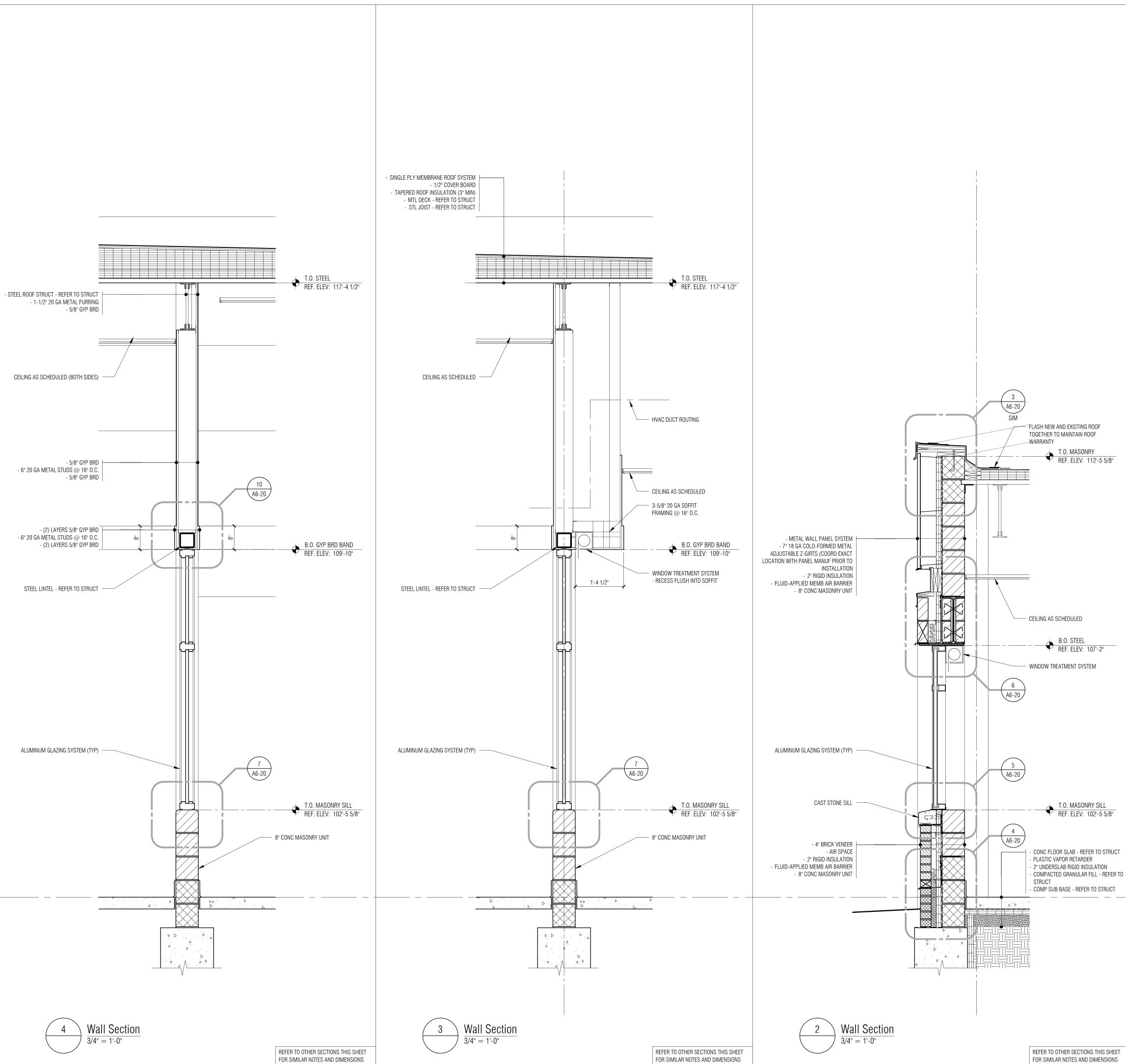
18185 Sycamore Roseville, MI 48066

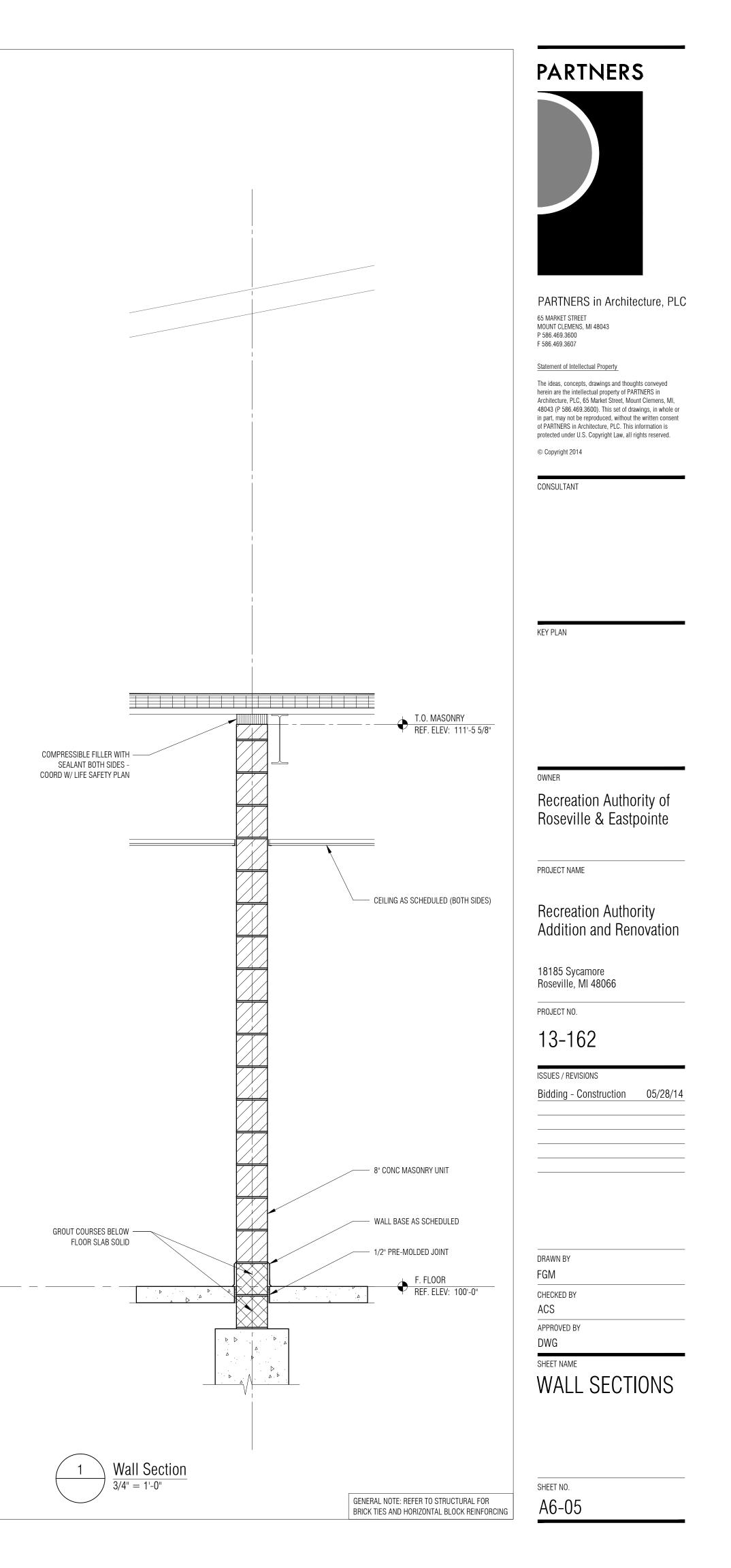
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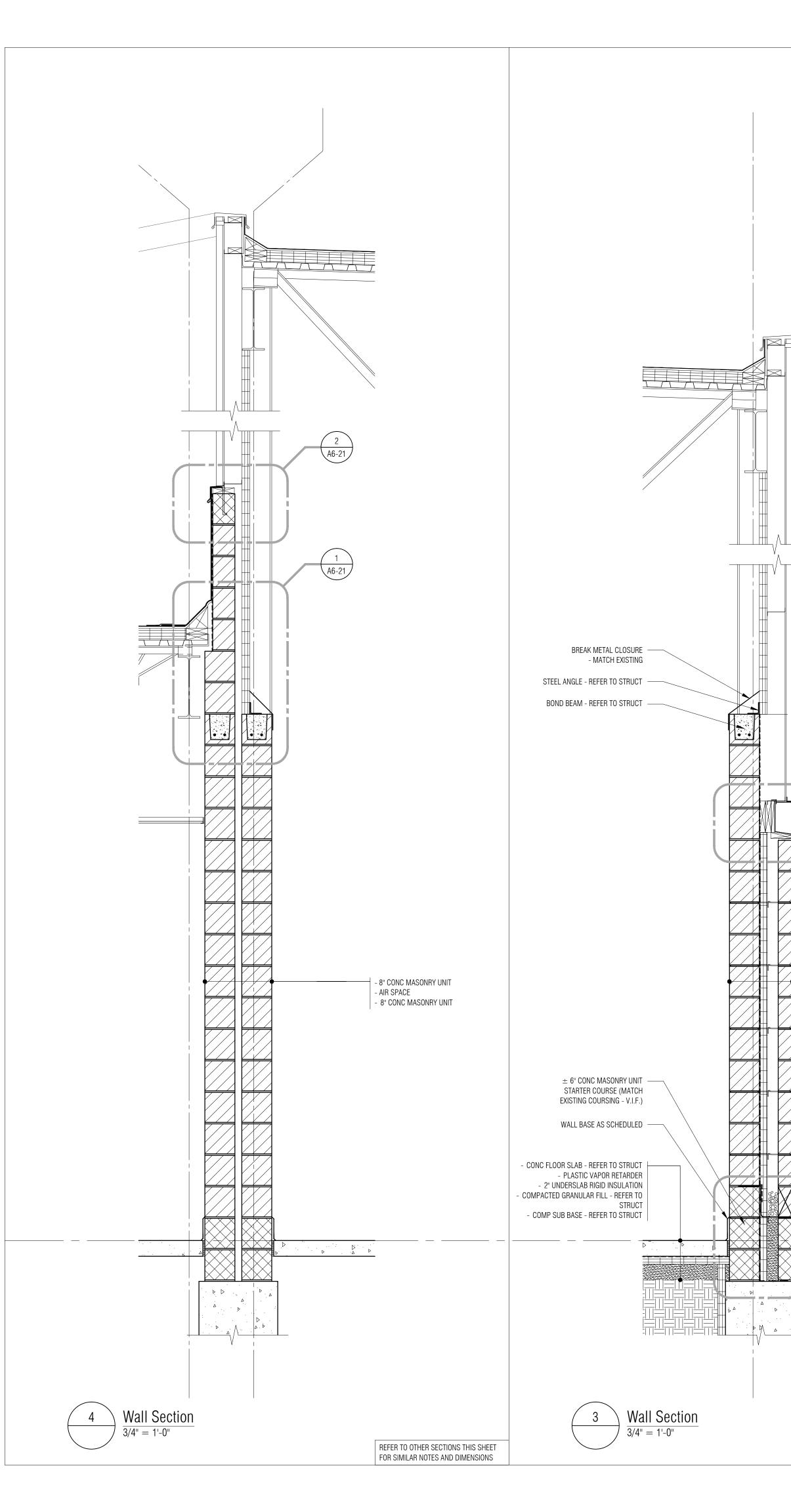
13-162

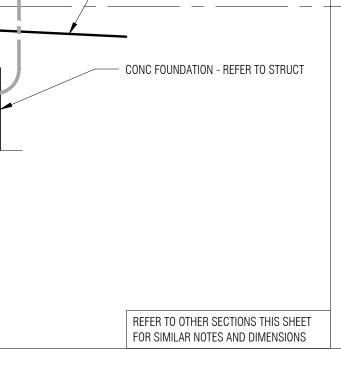
**ISSUES / REVISIONS** Bidding - Construction 05/28/14

DRAWN BY FGM CHECKED BY ACS APPROVED BY DWG SHEET NAME WALL SECTIONS









T.O. MASONRY REF. ELEV: 111'-1 5/8"

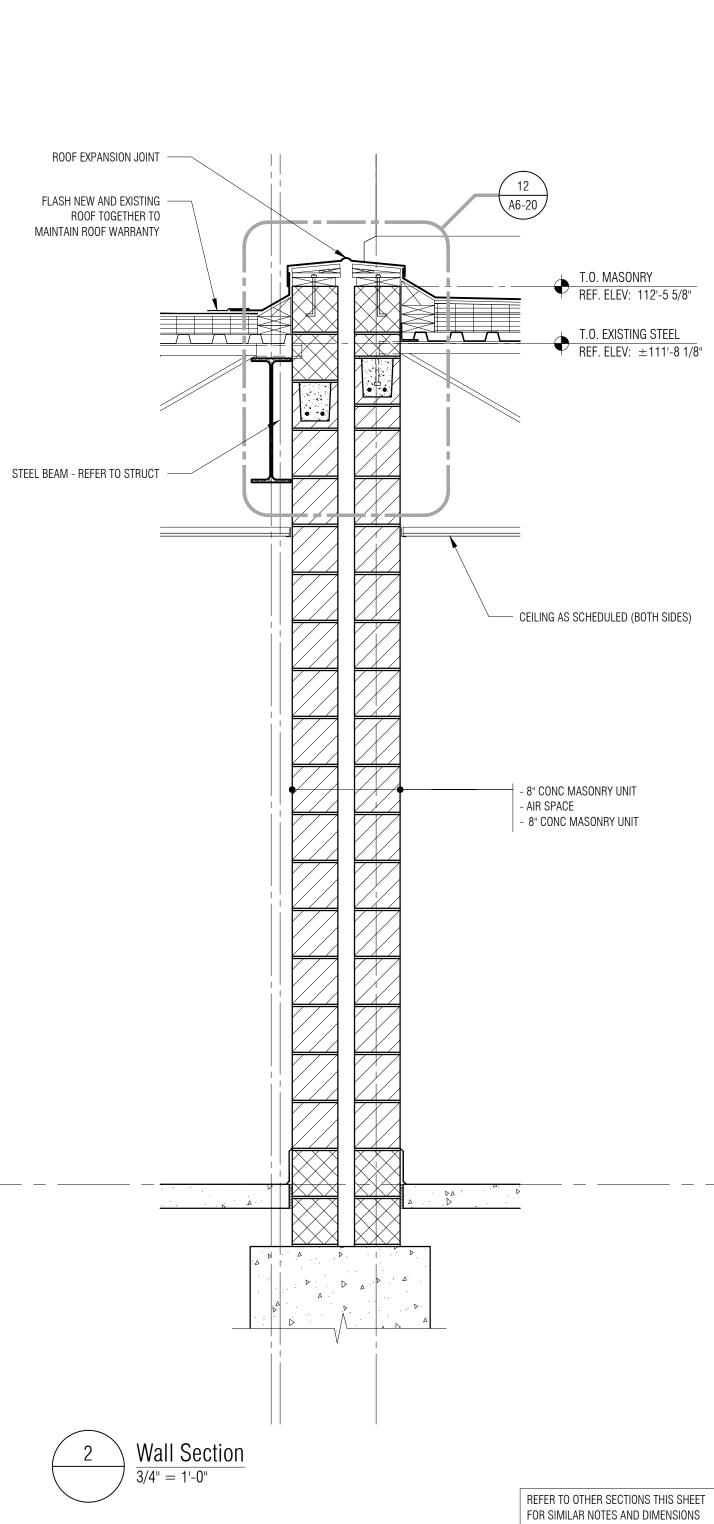
T.O. MASONRY REF. ELEV: 108'-5 5/8"

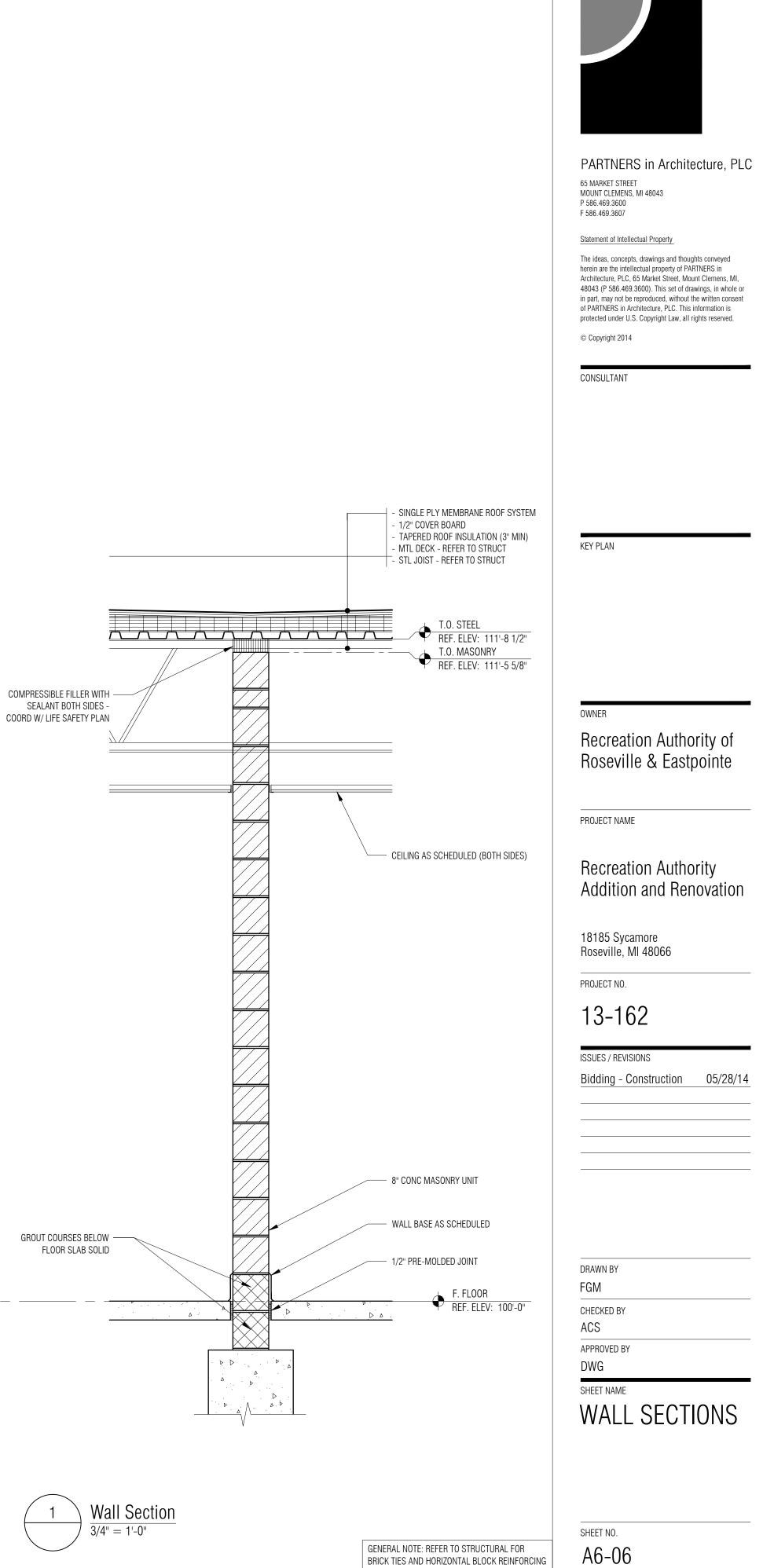
- 4" CONC MASONRY BLOCK VENEER
 - AIR SPACE
 - 2" RIGID INSULATION
 - FLUID-APPLIED MEMB AIR BARRIER
 - 8" CONC MASONRY UNIT

CONC MASONRY BLOCK VENEER - GROUT - SOLID BELOW THRU-WALL FLASHING

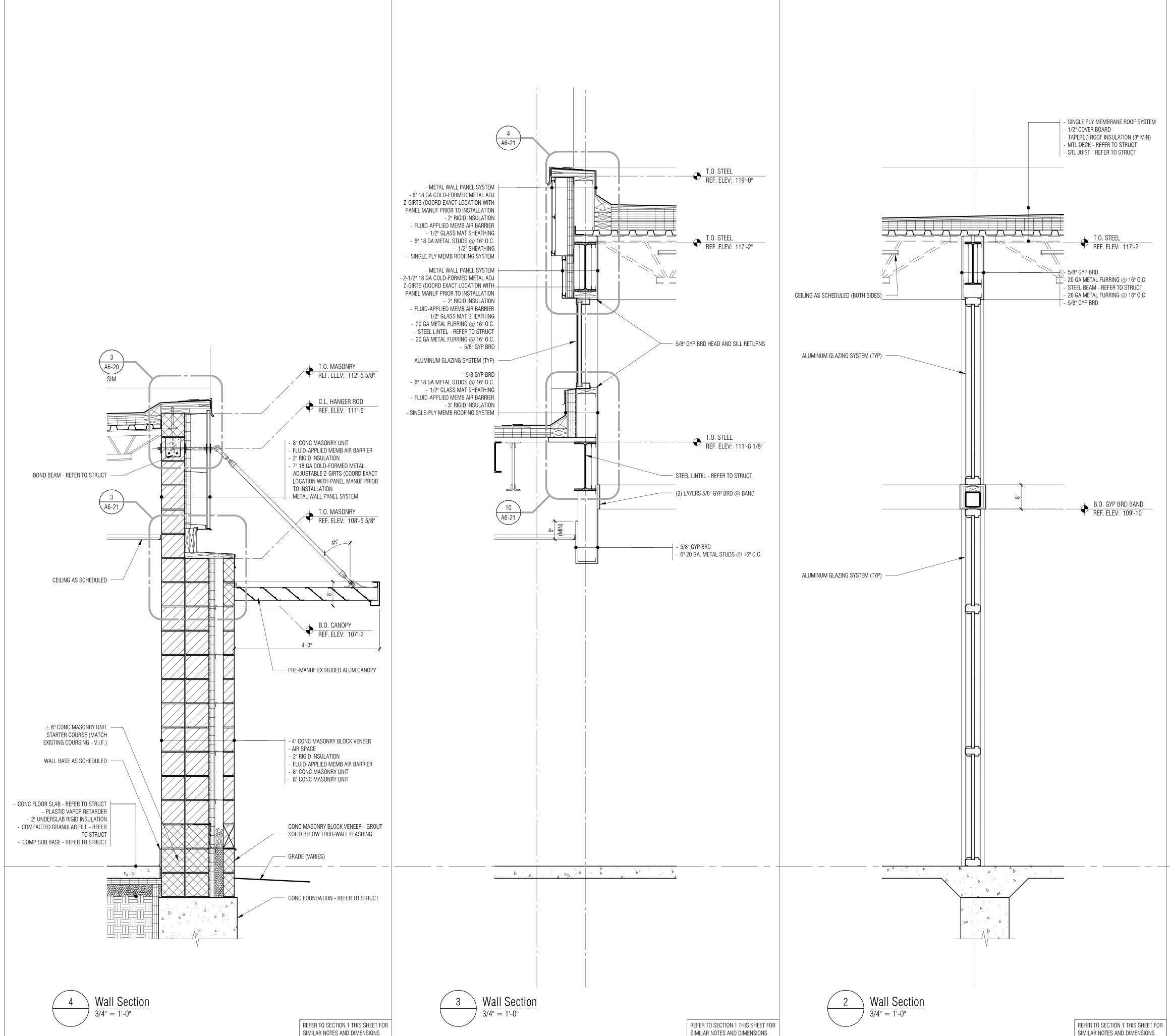
A6-20

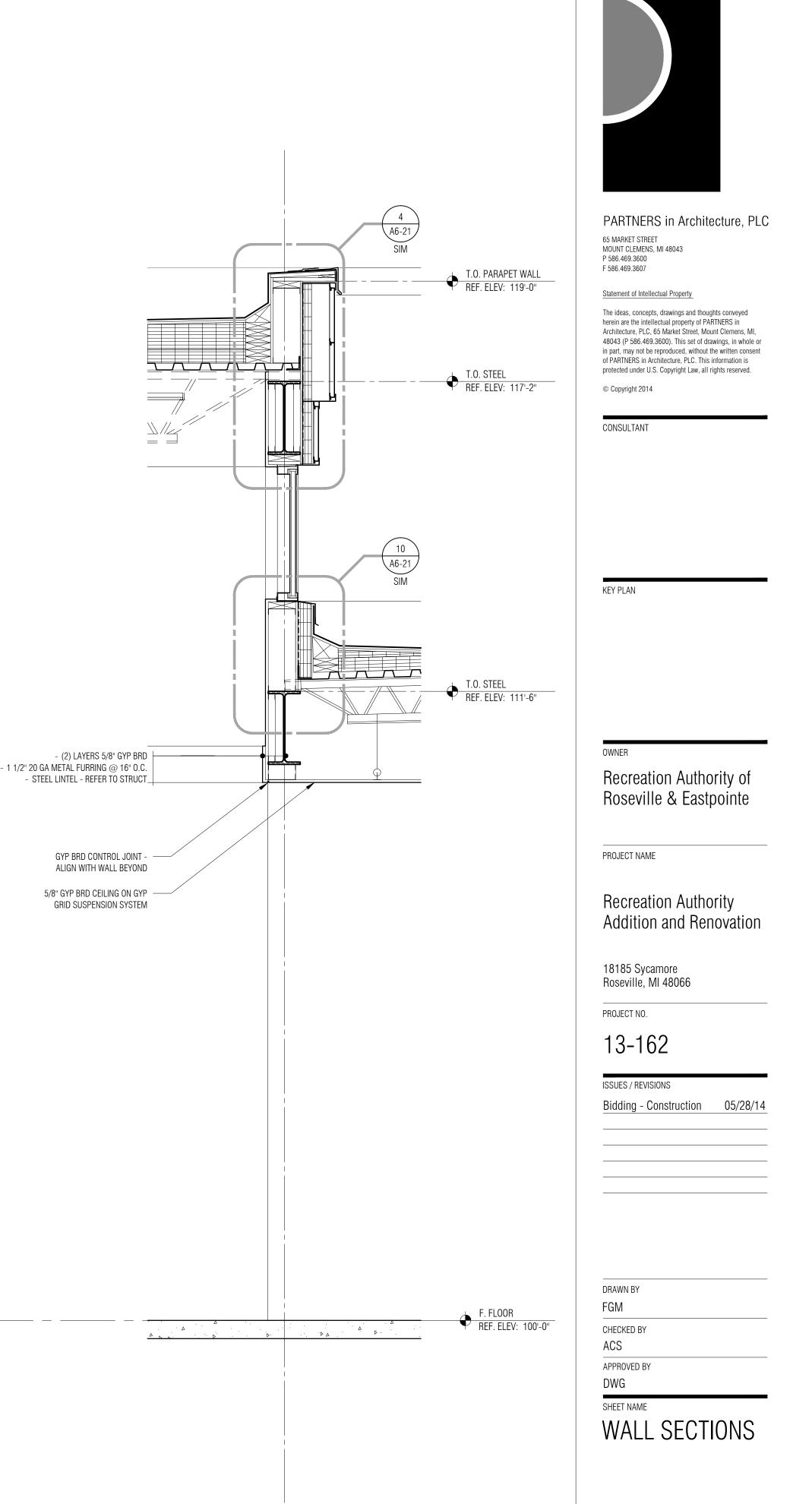
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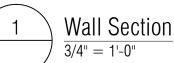




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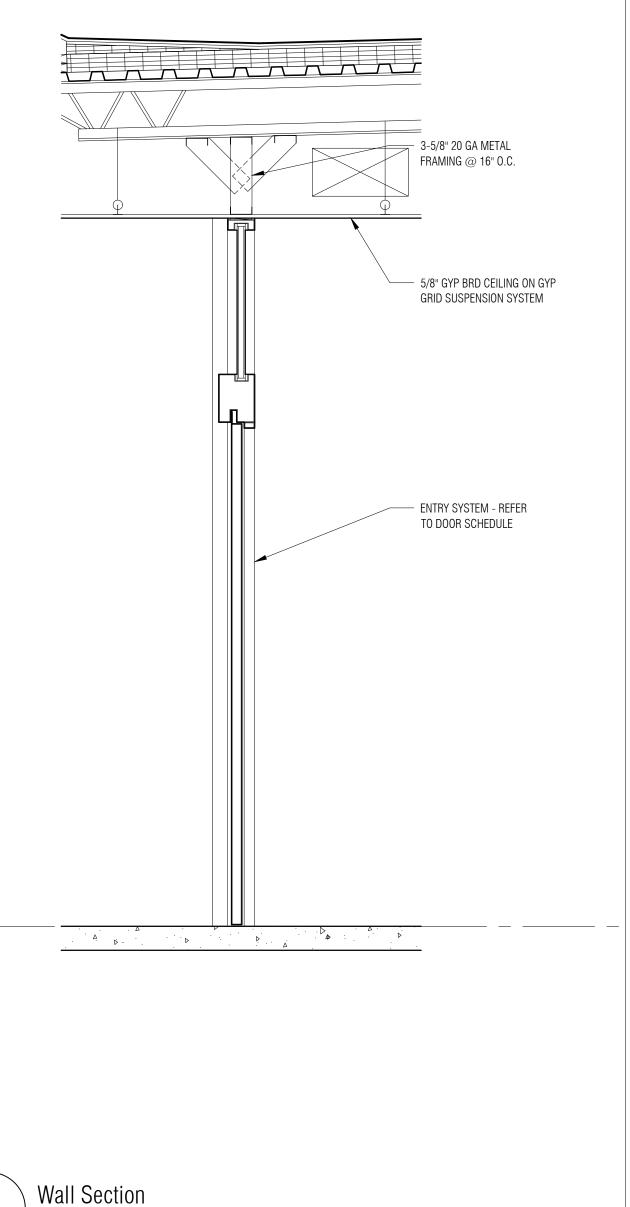




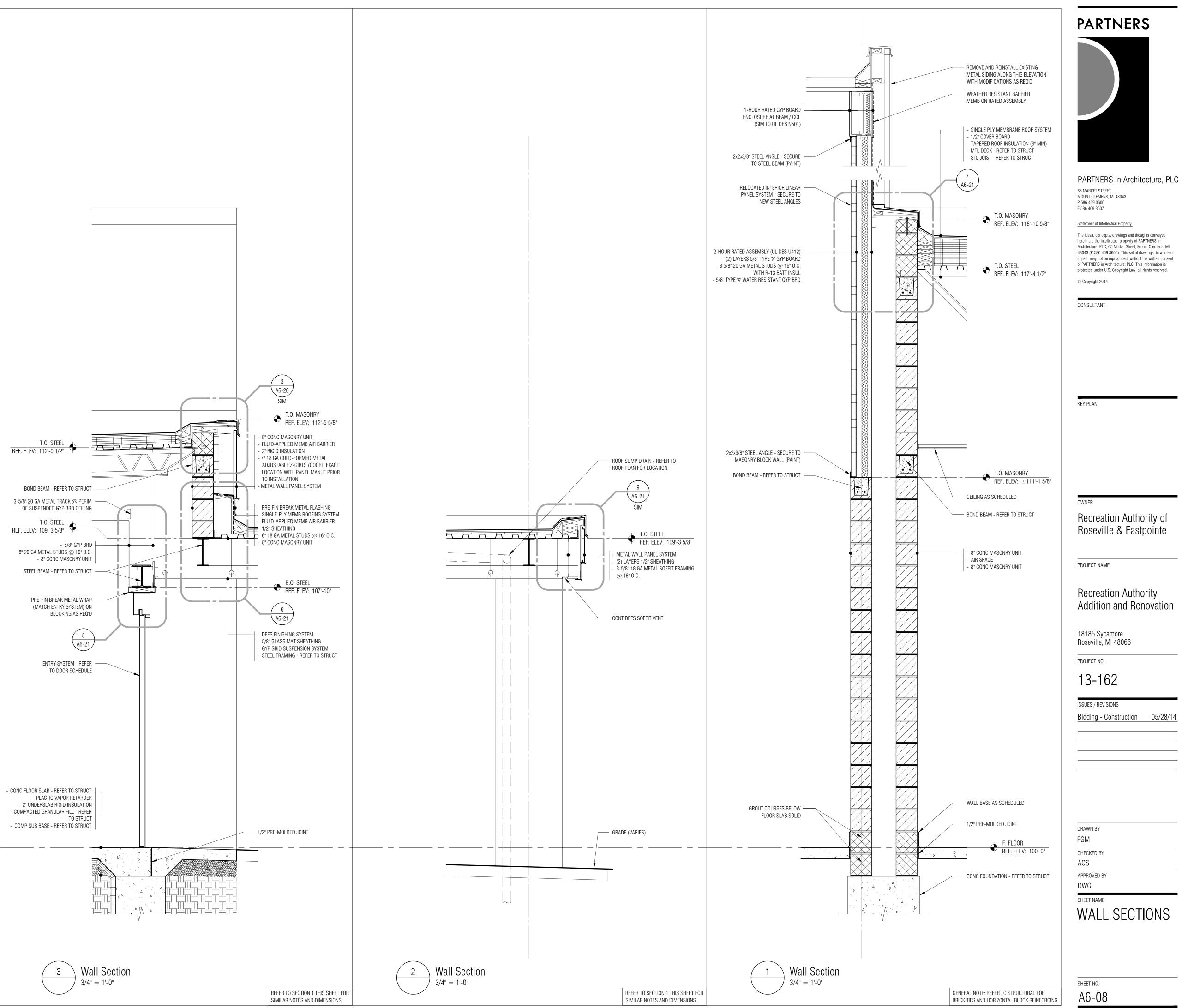


GENERAL NOTE: REFER TO STRUCTURAL FOR BRICK TIES AND HORIZONTAL BLOCK REINFORCING SHEET NO. A6-07

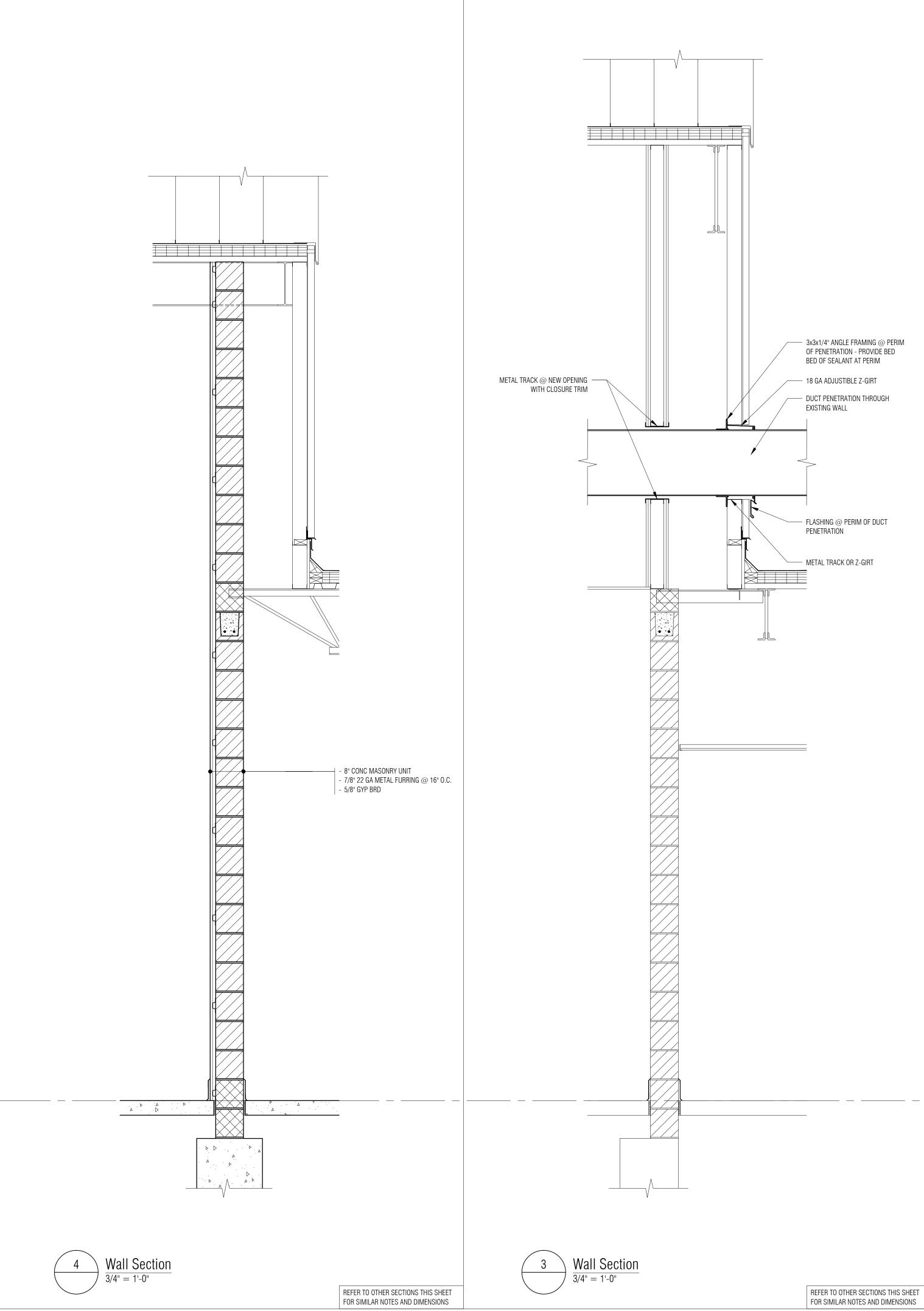
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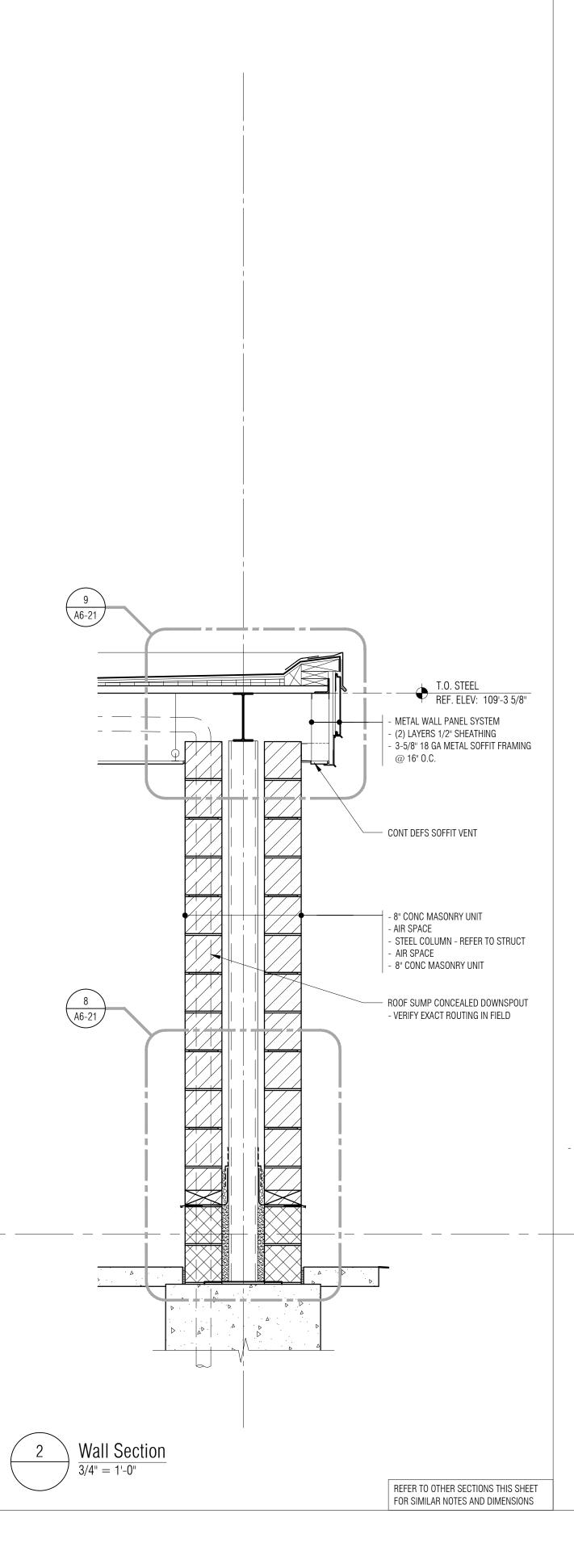


3/4" = 1'-0"



REFER TO SECTION 1 THIS SHEET FOR SIMILAR NOTES AND DIMENSIONS



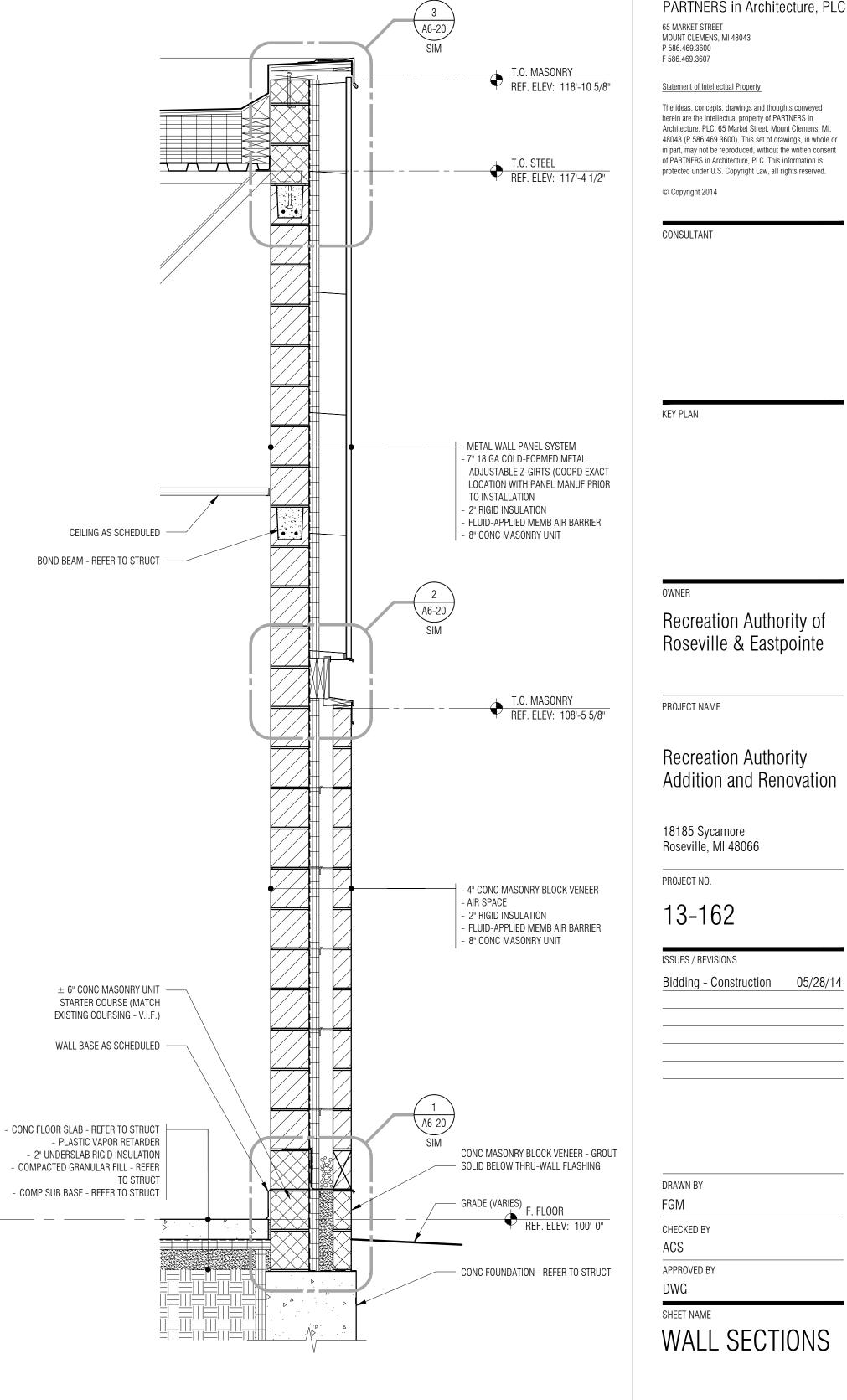




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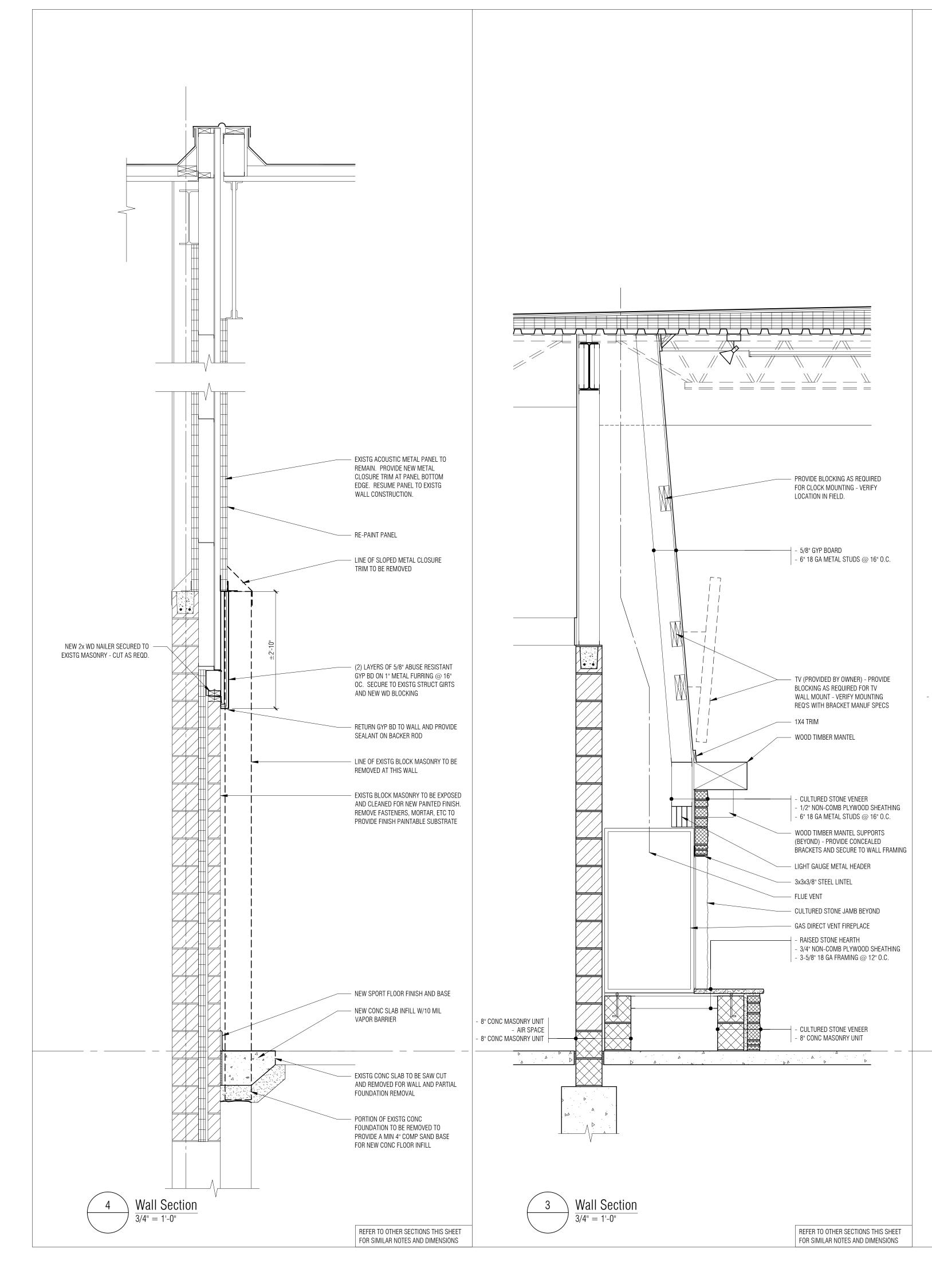
Statement of Intellectual Property

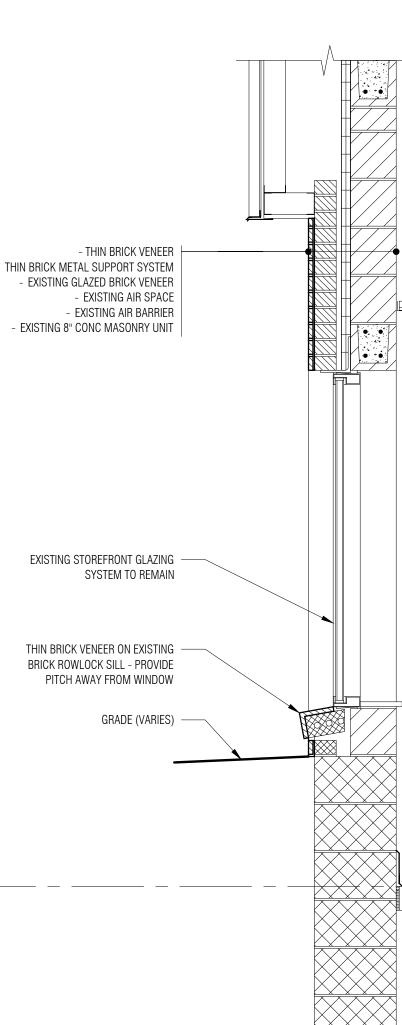
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 $\frac{\text{Wall Section}}{3/4" = 1'-0"}$ 

GENERAL NOTE: REFER TO STRUCTURAL FOR BRICK TIES AND HORIZONTAL BLOCK REINFORCING

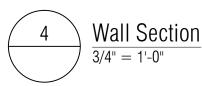




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GENERAL NOTE: REFER TO STRUCTURAL FOR BRICK TIES AND HORIZONTAL BLOCK REINFORCING A6-10

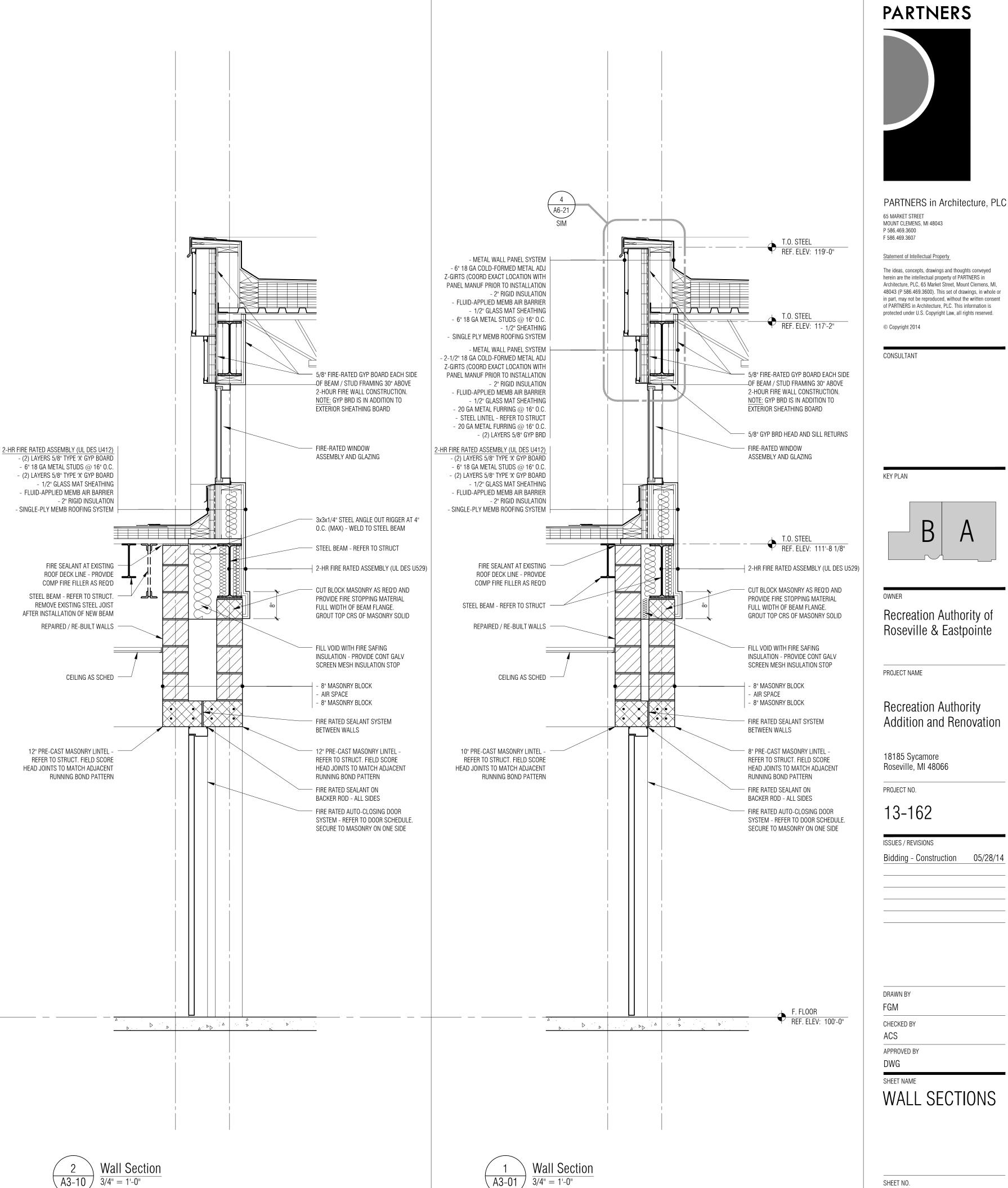
PARTNERS



$$\frac{3}{3/4"} = 1$$

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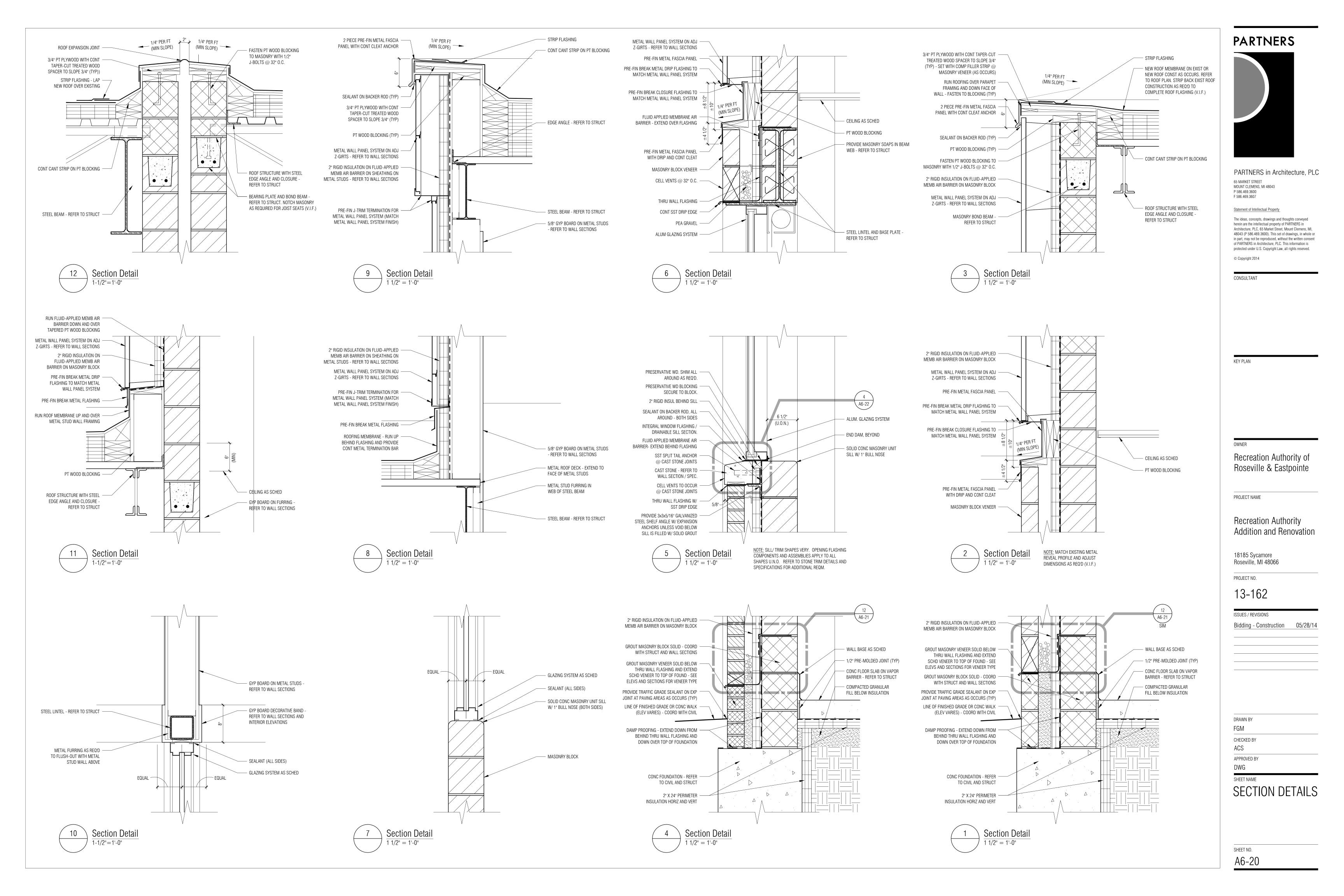


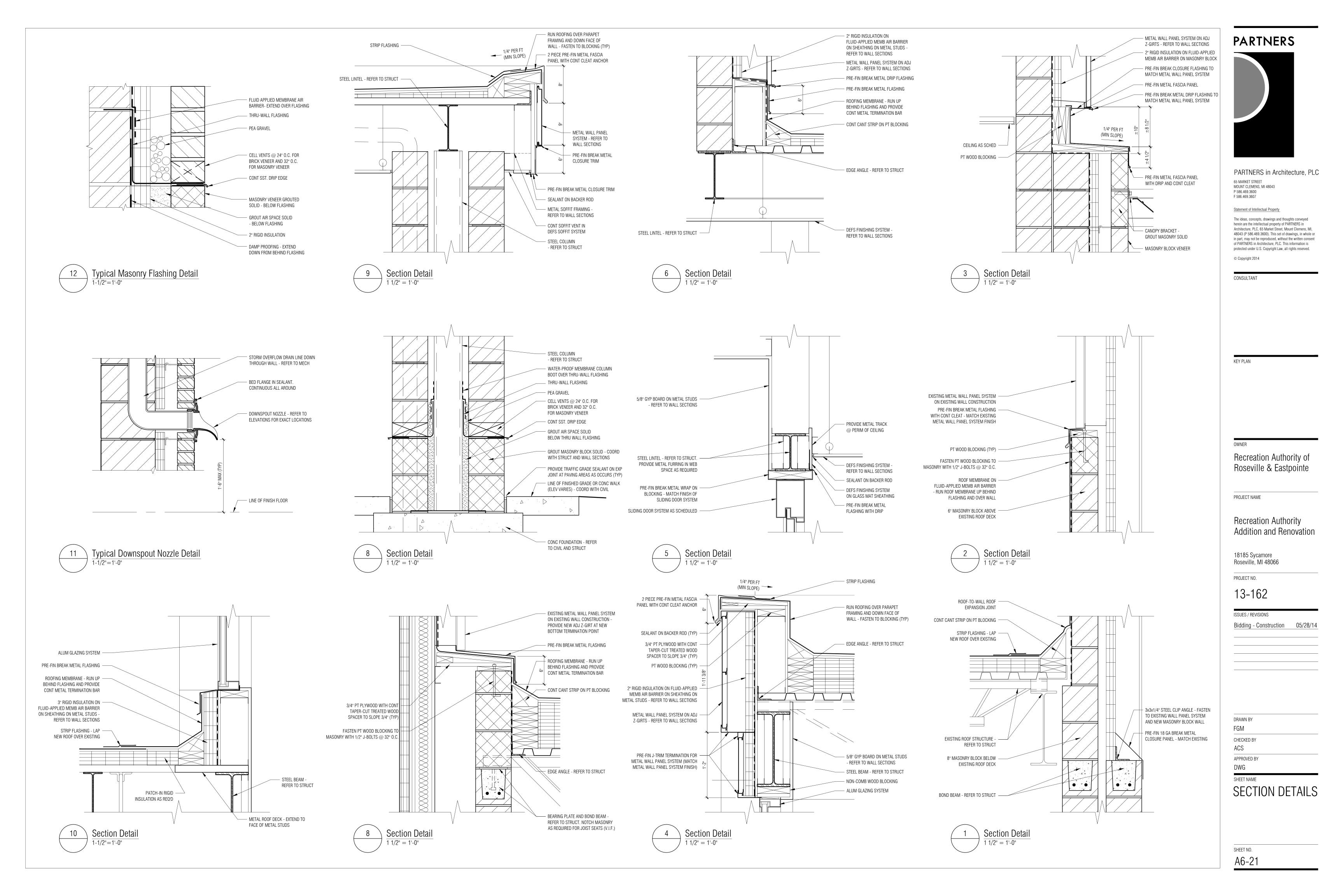
PARTNERS in Architecture, PLC

SHEET NO. A6-11

GENERAL NOTE: REFER TO STRUCTURAL FOR

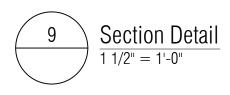
BRICK TIES AND HORIZONTAL BLOCK REINFORCING





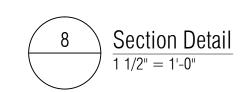


12  $\setminus$  Section Detail 1-1/2"=1'-0"



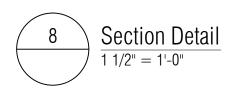


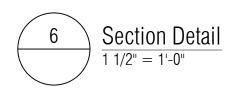
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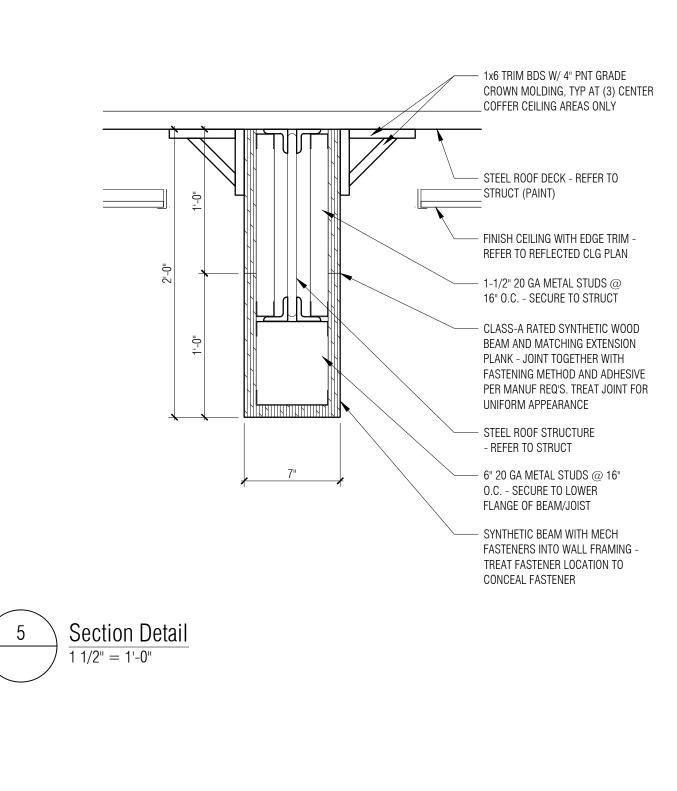


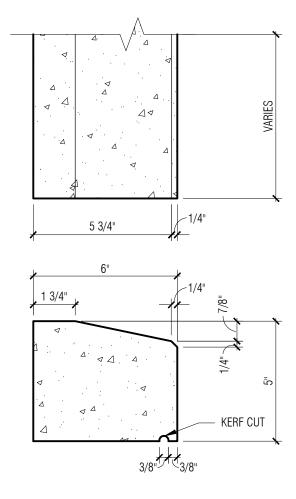


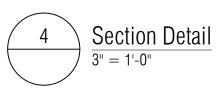
Section Detail 1-1/2"=1'-0"

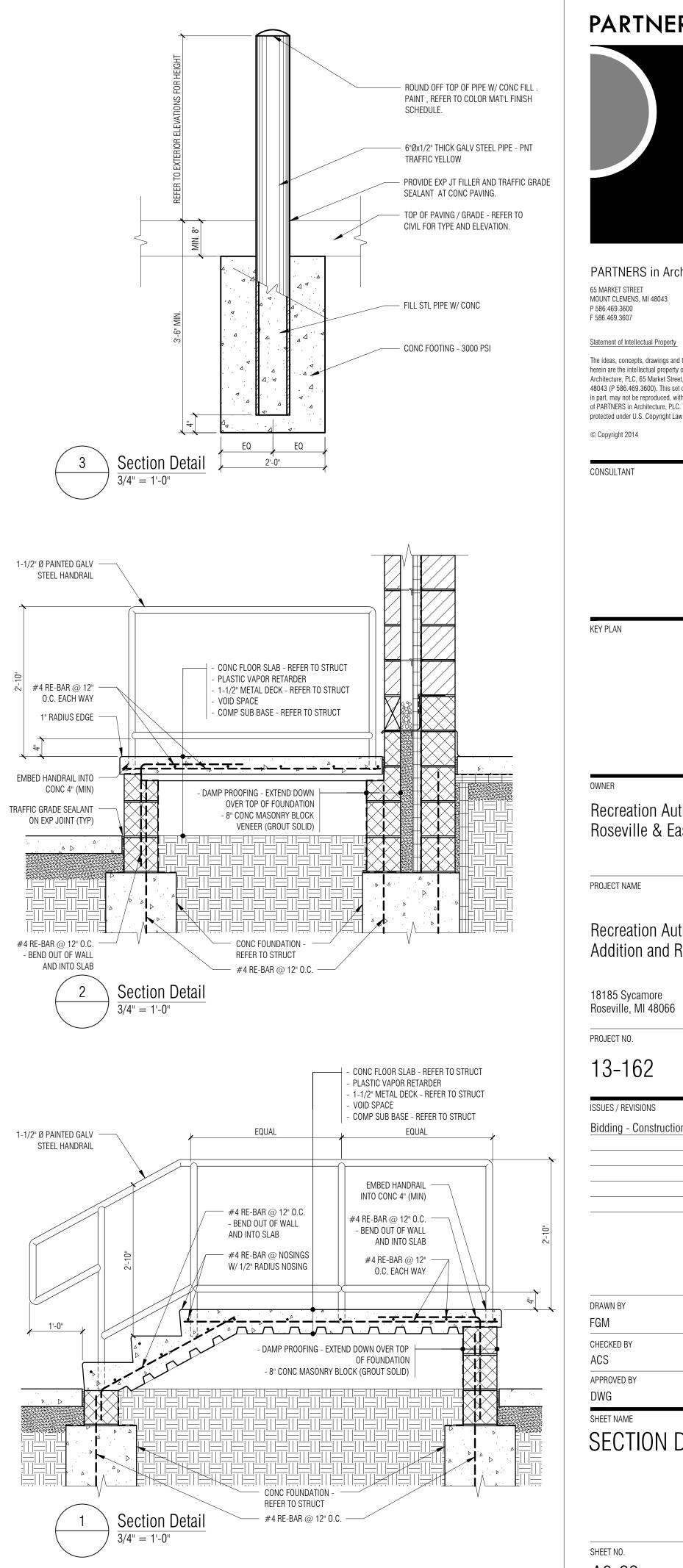












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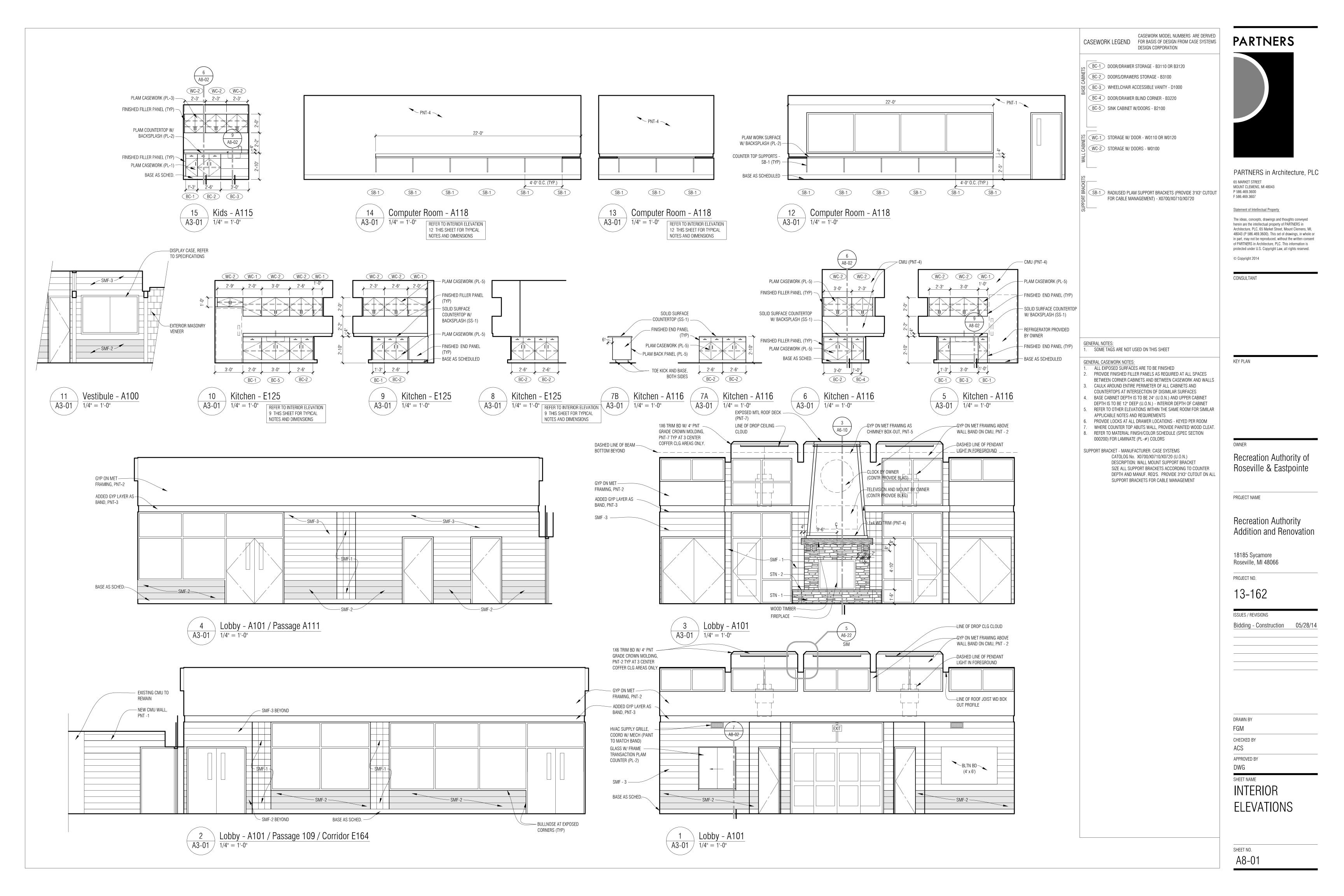
## Recreation Authority of Roseville & Eastpointe

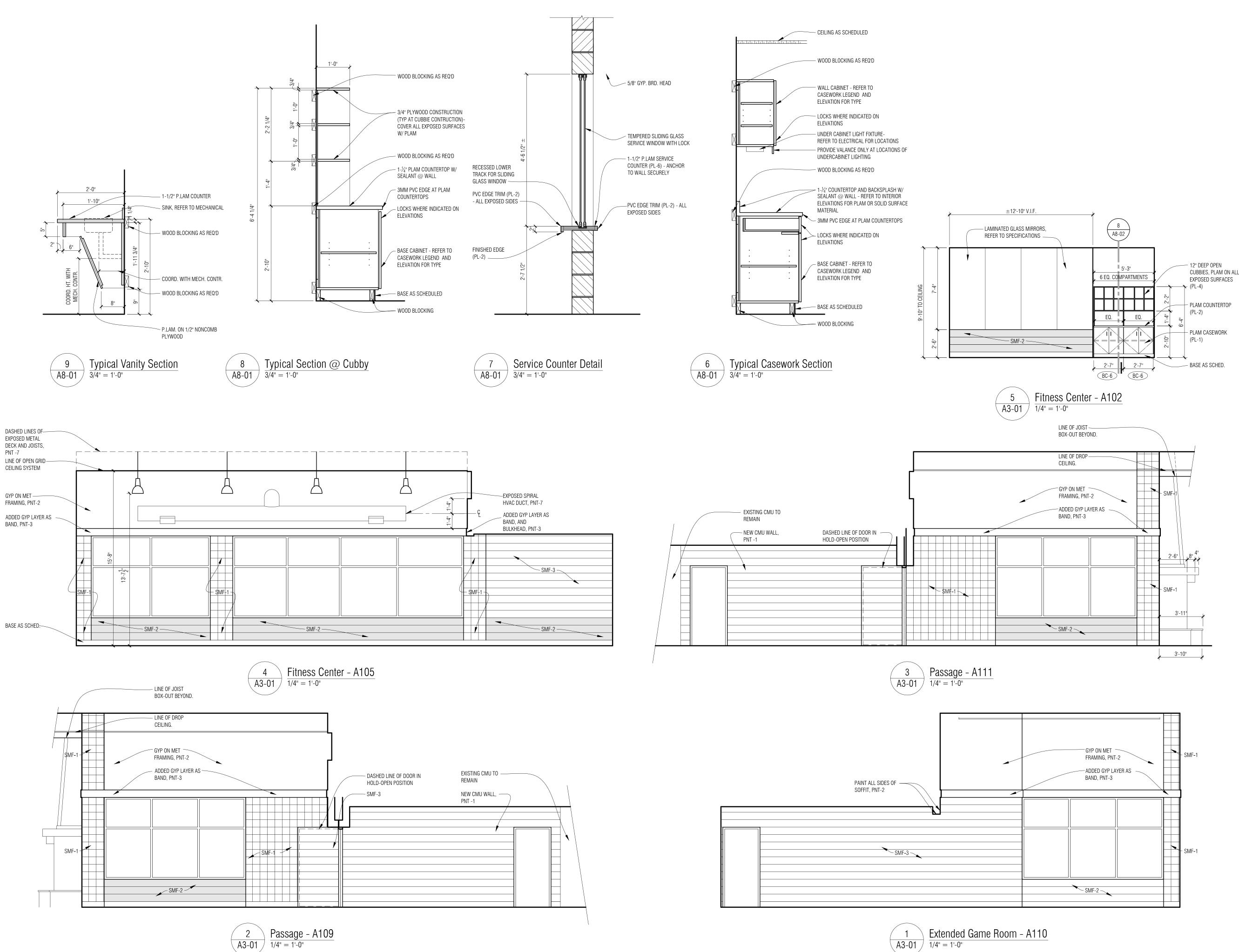
## Recreation Authority Addition and Renovation

Bidding - Construction 05/28/14

SECTION DETAILS

A6-22





#### CASEWORK MODEL NUMBERS ARE DERIVED CASEWORK LEGEND FOR BASIS OF DESIGN FROM CASE SYSTEMS DESIGN CORPORATION

- BC-1 DOOR/DRAWER STORAGE B3110 OR B3120
- (BC-2) DOORS/DRAWERS STORAGE B3100
- BC-3 WHEELCHAIR ACCESSIBLE VANITY D1000
- BC-4 DOOR/DRAWER BLIND CORNER B3220
- BC-5 SINK CABINET W/DOORS B2100
- BC-6 DOOR STORAGE B0100

WC-1 STORAGE W/ DOOR - W0110 OR W0120 WC-2 STORAGE W/ DOORS - W0100

SB-1 RADIUSED PLAM SUPPORT BRACKETS (PROVIDE 3"X3" CUTOUT FOR CABLE MANAGEMENT) - X0700/X0710/X0720

GENERAL NOTES: SOME TAGS ARE NOT USED ON THIS SHEET

#### GENERAL CASEWORK NOTES:

- ALL EXPOSED SURFACES ARE TO BE FINISHED PROVIDE FINISHED FILLER PANELS AS REQUIRED AT ALL SPACES
- BETWEEN CORNER CABINETS AND BETWEEN CASEWORK AND WALLS CAULK AROUND ENTIRE PERIMETER OF ALL CABINETS AND
- COUNTERTOPS AT INTERSECTION OF DISIMILAR SURFACES
- BASE CABINET DEPTH IS TO BE 24" (U.O.N.) AND UPPER CABINET DEPTH IS TO BE 12" DEEP (U.O.N.) - INTERIOR DEPTH OF CABINET REFER TO OTHER ELEVATIONS WITHIN THE SAME ROOM FOR SIMILAR
- APPLICABLE NOTES AND REQUIREMENTS
- PROVIDE LOCKS AT ALL DRAWER LOCATIONS KEYED PER ROOM WHERE COUNTER TOP ABUTS WALL, PROVIDE PAINTED WOOD CLEAT. REFER TO MATERIAL FINISH/COLOR SCHEDULE (SPEC SECTION
- 000200) FOR LAMINATE (PL-#) COLORS

SUPPORT BRACKET - MANUFACTURER: CASE SYSTEMS CATOLOG No. X0700/X0710/X0720 (U.O.N.) DESCRIPTION: WALL MOUNT SUPPORT BRACKET SIZE ALL SUPPORT BRACKETS ACCORDING TO COUNTER DEPTH AND MANUF. REQ'S. PROVIDE 3"X3" CUTOUT ON ALL SUPPORT BRACKETS FOR CABLE MANAGEMENT





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KEY PLAN

#### OWNER

#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

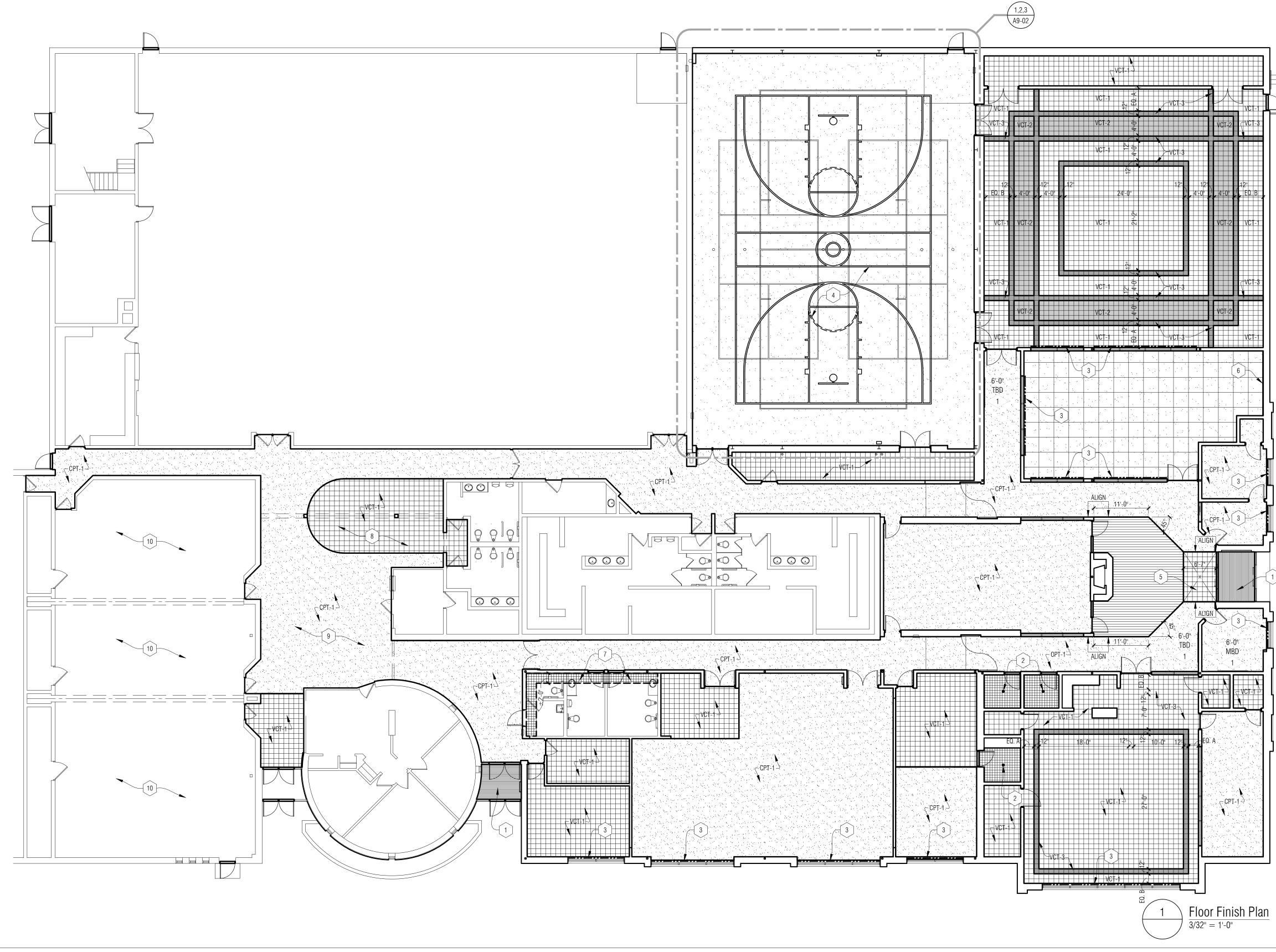
ISSUES / REVISIONS	
Bidding - Construction	05/28/14

DRAWN BY
-GM
CHECKED BY
ACS

APPROVED BY DWG

SHEET NAME INTERIOR ELEVS, MILLWORK DETAILS

SHEET NO. A8-02



#### FINISH FLOOR PLAN - LEGEND:

CARPET W/ RESILIENT BASE
VINYL COMPOSITE TILE W/ RESILIENT BASE W/ ACCENT TILE AS INDIC
RESILIENT SPORT FLOORING TILES W/ RESILIENT BASE
SHEET ATHLETIC FLOORING W/ INTEGRAL COURT STRIPING AND RESI
WALK OFF CARPET
CERAMIC TILE FLOOR W/ COVE BASE
SIMULATED WOOD SHEET FLOORING W/ RESILIENT BASE

#### DICATED

#### SILIENT BASE

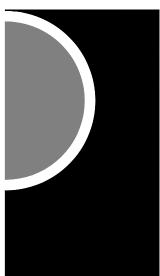
#### FINISH FLOOR PLAN - GENERAL NOTES:

- A. REFERENCE ROOM FINISH SCHEDULE AND MATERIAL FINISH / COLOR SCHEDULE (SPEC SECTION 000200) FOR ADDITIONAL FINISH INFORMATION.
- B. VCT COLOR TRANSITION TO BEGIN AT FIRST JOINT INSIDE CORNER OF WALL AT ALL DOORWAYS SHOWN AS HAVING A COLOR TRANSITION.
- C. ALL DIMENSIONS ARE SHOWN AS +/- AND NEED TO BE VERIFIED IN FIELD.
- D. UNLESS OTHERWISE NOTED, FLOOR FINISHES TRANSITION UNDER THE CENTERLINE OF DOORS (WHEREVER APPLICABLE).

#### FINISH FLOOR PLAN - KEY NOTES:

- 1 ENTRANCE WALK OFF MAT.
- 2 FLOOR DRAIN REFER TO MECH. PROVIDE POSITIVE SLOPE TO DRAIN.
- 3 ROLLER SHADES ABOVE TO COVER ENTIRE OPENING COORDINATE SIZES WITH OPENING ELEVATIONS AND BUILDING ELEVATIONS.
- 4 SPORTS COURT STRIPING REFER TO ENLARGED PLANS.
- 5 DEPRESS FLOOR SLAB 1/2" FOR TILED FLOOR AREA.
- 6 WALL MIRROR REFER TO INTERIOR ELEVATIONS.
- NEW C.T. TO MATCH EXISTING WHERE REMOVED PROVIDE ALTERNATE (ALT #9) TO PROVIDE ALL NEW C.T.
- 8 EXISTING VCT TO BE REPLACED WITH VCT-1
- 9 EXISTING CARPET TO BE REPLACED WITH CPT-1
- [10] EXISTING VCT TO BE REPLACE WITH VCT-1 (ALT #4)

### PARTNERS



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Statement of Intellectual Property

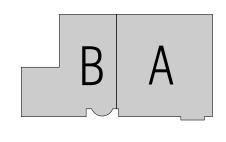
F 586.469.3607

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KEY PLAN



OWNER

#### Recreation Authority of Roseville & Eastpointe

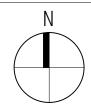
PROJECT NAME

# Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

ISSUES / REVISIONS Bidding - Construction 05/28/14



DRAWN BY FGM CHECKED BY ACS

APPROVED BY DWG

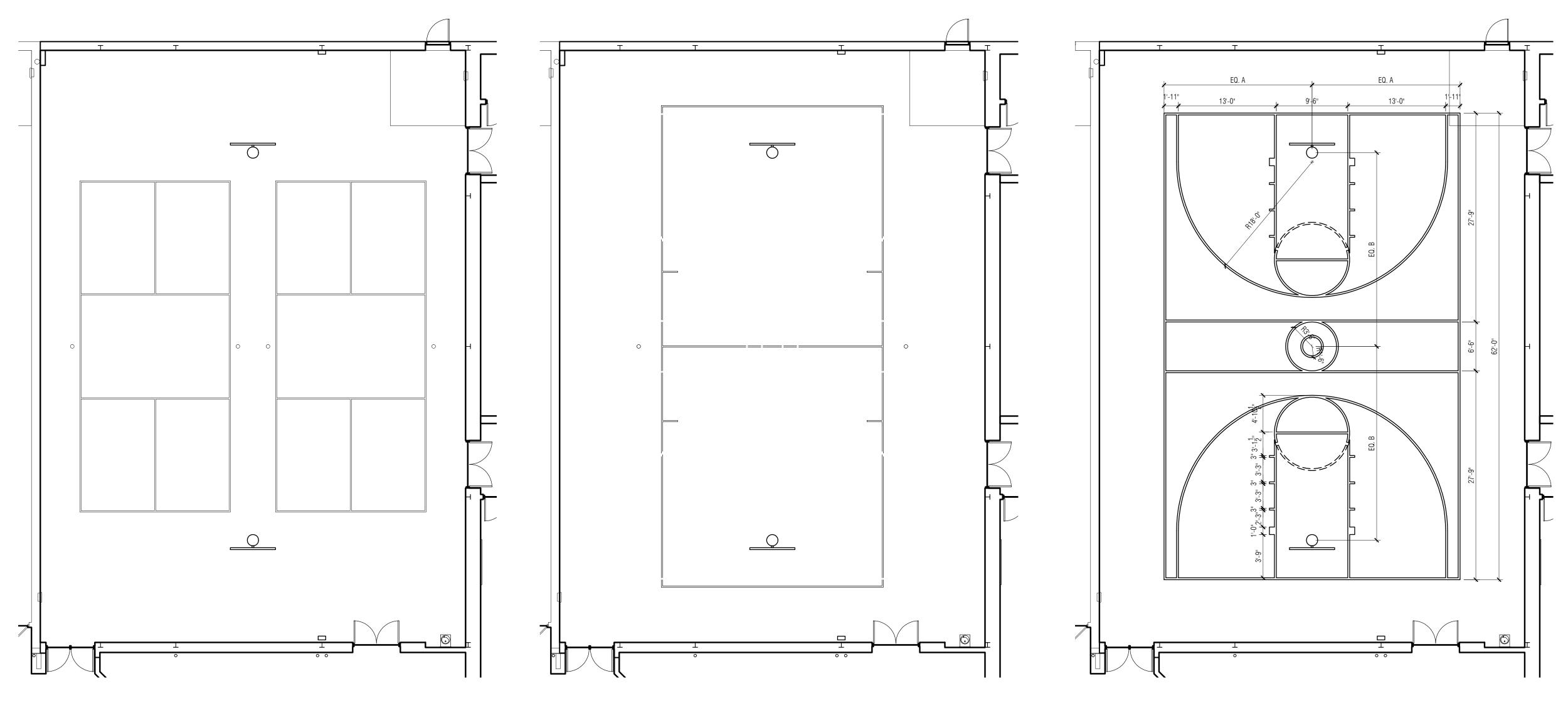
SHEET NAME

FLOOR FINISH PLAN

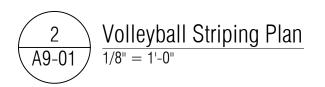
SHEET NO. A9-01

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 $\begin{array}{c} \hline 3 \\ \hline A9-01 \end{array} \begin{array}{c} Pickleball Striping Plan \\ \hline 1/8" = 1'-0" \end{array}$ 



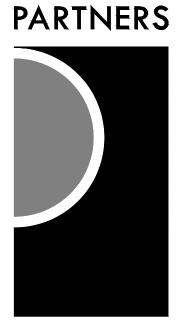


#### FINISH FLOOR PLAN - GENERAL NOTES:

- A. REFERENCE ROOM FINISH SCHEDULE AND MATERIAL FINISH / COLOR SCHEDULE (SPEC SECTION 000200) FOR ADDITIONAL FINISH INFORMATION.
- B. VCT COLOR TRANSITION TO BEGIN AT FIRST JOINT INSIDE CORNER OF WALL AT ALL DOORWAYS SHOWN AS HAVING A COLOR TRANSITION.
- C. ALL DIMENSIONS ARE SHOWN AS +/- AND NEED TO BE VERIFIED IN FIELD.
- D. UNLESS OTHERWISE NOTED, FLOOR FINISHES TRANSITION UNDER THE CENTERLINE OF DOORS (WHEREVER APPLICABLE).

#### FINISH FLOOR PLAN - KEY NOTES:

- 1 ENTRANCE WALK OFF MAT.
- 2 FLOOR DRAIN REFER TO MECH. PROVIDE POSITIVE SLOPE TO DRAIN.
- 3 ROLLER SHADES ABOVE TO COVER ENTIRE OPENING COORDINATE SIZES WITH OPENING ELEVATIONS AND BUILDING ELEVATIONS.
- 4 SPORTS COURT STRIPING REFER TO ENLARGED PLANS.
- 5 DEPRESS FLOOR SLAB 1/2" FOR TILED FLOOR AREA.
- 6 WALL MIRROR REFER TO INTERIOR ELEVATIONS.
- 7 ] NEW C.T. TO MATCH EXISTING WHERE REMOVED PROVIDE ALTERNATE (ALT #9) TO PROVIDE ALL NEW C.T.
- 8 EXISTING VCT TO BE REPLACED WITH VCT-1
- 9 EXISTING CARPET TO BE REPLACED WITH CPT-1
- [10] EXISTING VCT TO BE REPLACE WITH VCT-1 (ALT #4)



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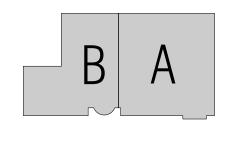
F 586.469.3607

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CONSULTANT

KEY PLAN



OWNER

#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

# Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

ISSUES / REVISIONS Bidding - Construction 05/28/14



DRAWN BY FGM CHECKED BY

ACS

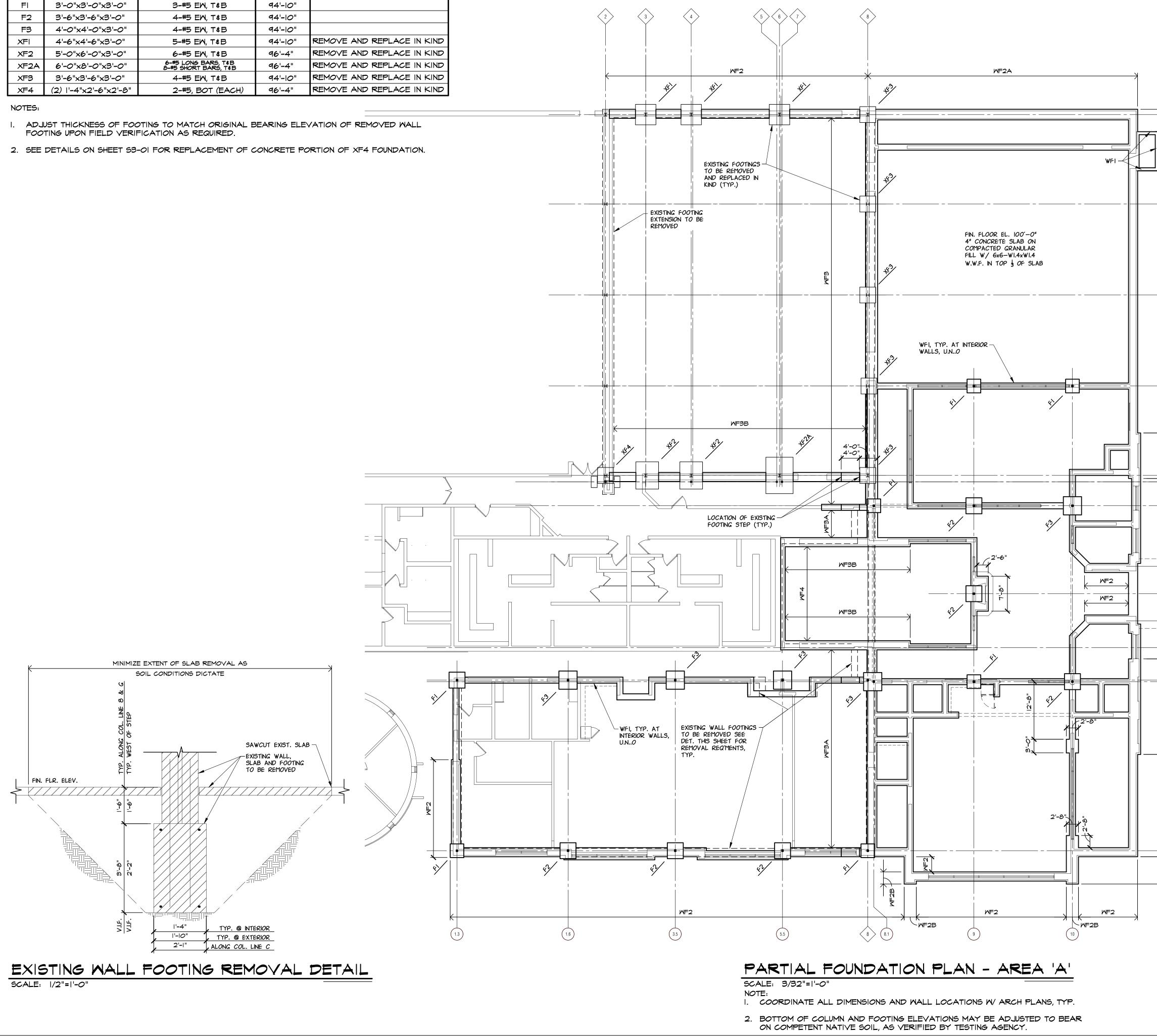
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DWG

SHEET NAME GYM FINISH PLAN

SHEET NO. A9-02

	FOOTING SCHEDULE						
MARK	SIZE L×M×D	REINFORCING	ELEV. BOT. OF FTG.	REMARKS			
۴I	3'-0"x3'-0"x3'-0"	3-#5 EM, T≴B	94'-10"				
F2	3'-6"x3'-6"x3'-0"	4 <b>-</b> #5 EM, T≰B	94'-10"				
F3	4'-0"x4'-0"x3'-0"	4 <b>-#5</b> EW, T <b></b> ₿	94'-10"				
XFI	4'-6"x4'-6"x3'-0"	5-#5 EW, T≰B	94'-10"	REMOVE AND REPLACE IN KIND			
XF2	5'-0"×6'-0"×3'-0"	6-#5 EW, T&B	96'-4"	REMOVE AND REPLACE IN KIND			
XF2A	6'-0"x8'-0"x3'-0"	6-#5 LONG BARS, T&B 8-#5 SHORT BARS, T&B	96'-4"	REMOVE AND REPLACE IN KIND			
XF3	3'-6"x3'-6"x3'-0"	4-#5 EW, T&B	94'-10"	REMOVE AND REPLACE IN KIND			
XF4	(2)  '-4"x2'-6"x2'-8"	2-#5, BOT (EACH)	96'-4"	REMOVE AND REPLACE IN KIND			







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—(A.5)

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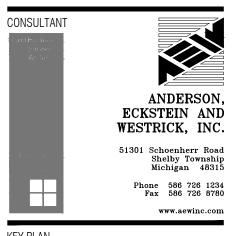
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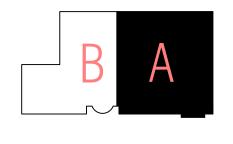
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KEY PLAN



#### OWNER

Recreation Authority of Roseville & Eastpointe

#### PROJECT NAME

Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

#### PROJECT NO. 13-162

### ISSUES / REVISIONS

Bidding - Construction

05/28/14

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CHECKED BY KEZ

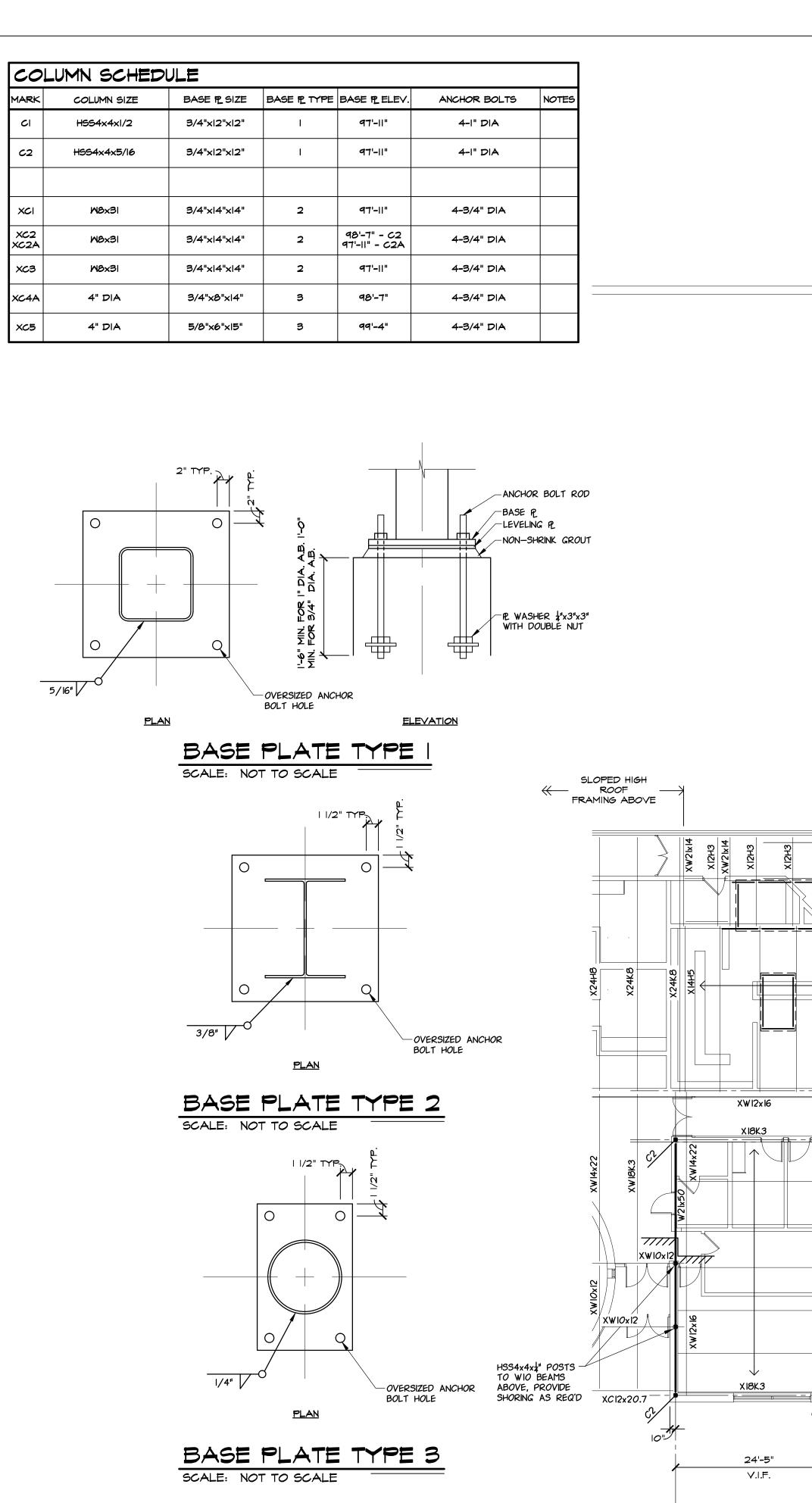
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SPL

SHEET NAME

FOUNDATION PLAN

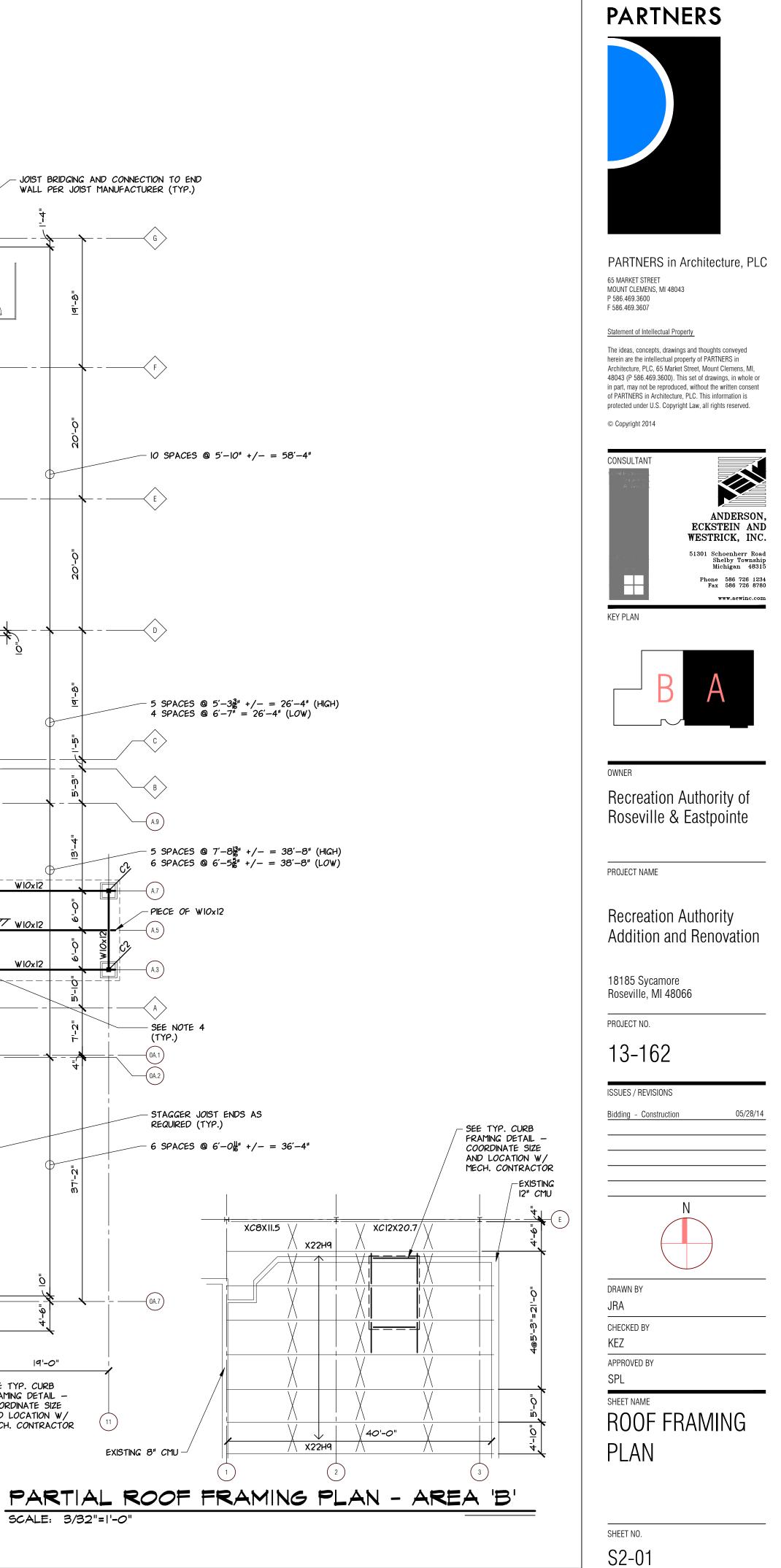
SHEET NO. S1-01



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				NOTE I.	ALL MEM	BERS AF	RE EQUAL				D OTHERWISE	
				3. /	ALL 8" A 5H 54-01	ND 12" C FOR AD	MU TO BE D'L REQL	REINFO	rced w/ 'S.	#5 @ 32"	IZED AND CONTINUOUS OVER A MINIMUM OF THREE SPANS " O.C. VERT. REINFORCEMENT - SEE MASONRY NOTES ON	-

STEEL BEAM BEARING PLATES ARE <sup>3</sup>/<sub>8</sub>"x6"x0'-8" LG SEE TYPICAL BEARING PLATE DETAIL.
 SEE ARCH FOR T.O.S. ELEVATIONS AND CMU BOND BEAM LOCATIONS.



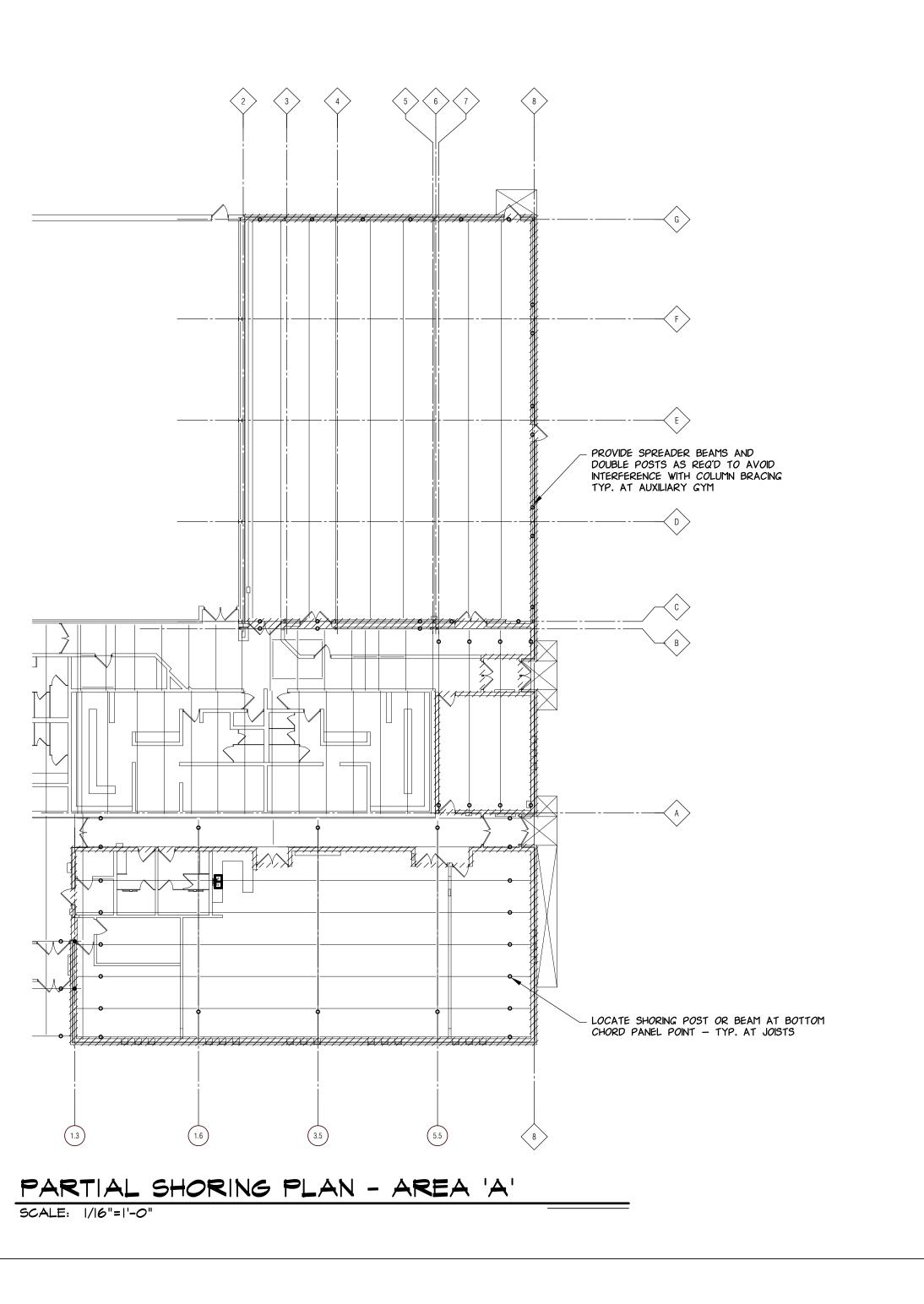
#### SHORING LEGEND

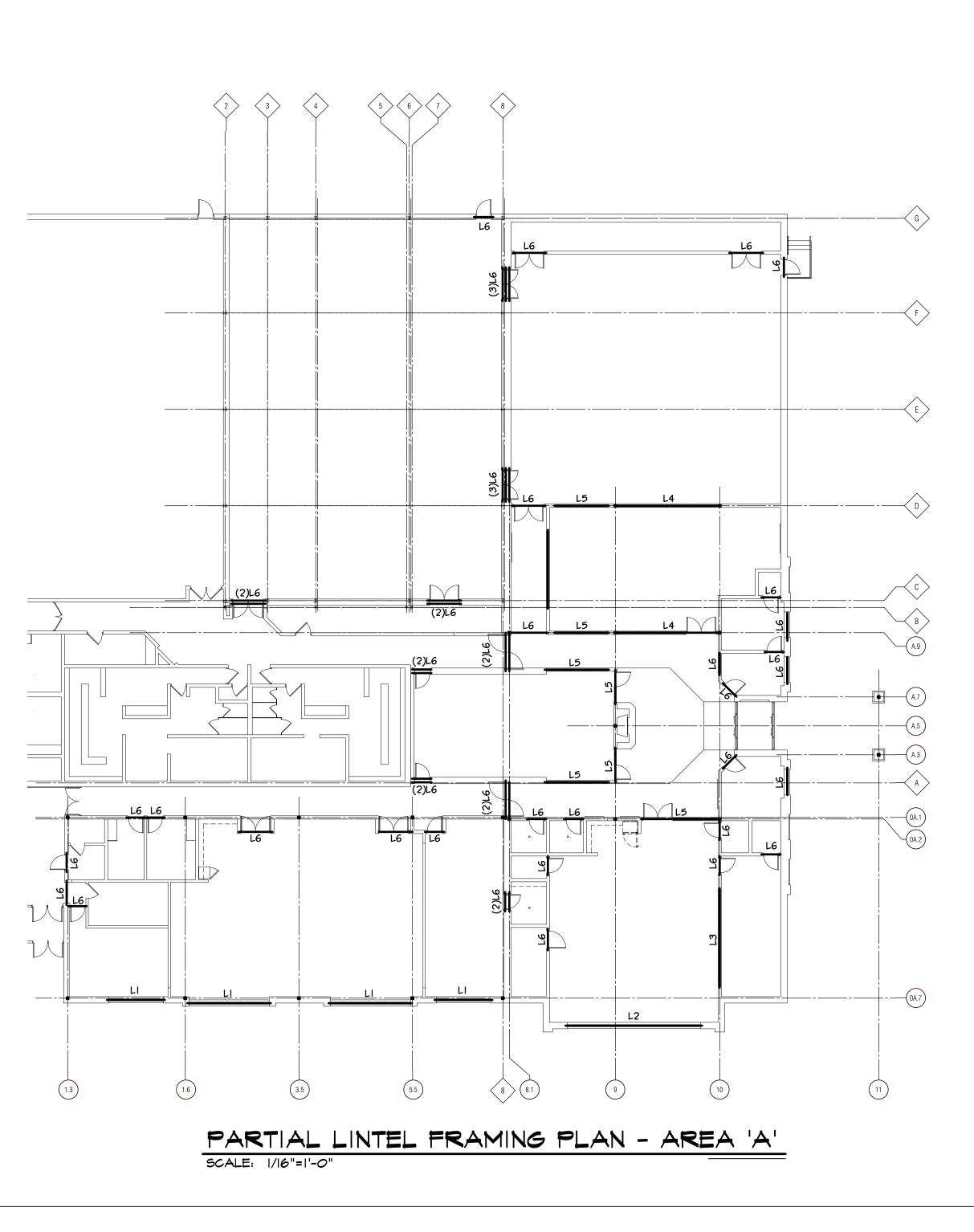
------ PROPOSED TEMPORARY SHORING POINT

REMOVED.

#### GENERAL DEMOLITION NOTES

- CONTRACTOR TO SUBMIT PROPOSED SHORING PROCEDURE AND ١. METHODOLOGY TO A/E FOR REVIEW PRIOR TO DEMOLITION.
- 2. PROPOSED PROCEDURE TO INCLUDE CALCULATIONS OF SHORING LOADS, DESIGN OF SHORING POSTS, AND FLOOR CRIBBING, TO BE COORDINATED WITH THE EXTENT OF CONCRETE SLAB AND WALL SIDING REMOVAL.
- 3. EXISTING STRUCTURAL STEEL ROOF AND WALL FRAMING, ROOF DECK, COLUMNS AND BRACING TO REMAIN UNLESS NOTED OTHERWISE DURING REPLACEMENT OF EXISTING INDICATED FOUNDATIONS.



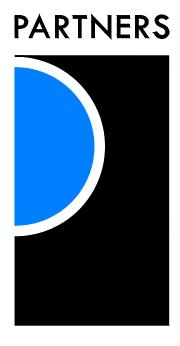


#### LINTEL SCHEDULE

	SIZE	BEARING PLATE	JAMB REINFORCEMENT
I	MI6×26 W/ g"×15" STEEL PLATE	<sup>3</sup> 5"×62"×0'-7" LG	2-#5 VERT. FULL HT.
2	WI6x45 W/ ջ"xI5" STEEL PLATE	≩"×7"×I'−2" LG	4-#5 VERT. FULL HT.
З	WI6×45	훓"x7"xl'-2" LG	4-#5 VERT. FULL HT.
4	HSS 7x5x±"	FRAME INTO COLS	
5	HSS 5x5x4"	ਡੋ"×6"×0'-7" LG	2-#5 VERT. FULL HT.
6	8"x8" CMU W/ 2-#5 TOP AND BOTTOM		2-#5 VERT. FULL HT.

NOTES:

I. SEE TYPICAL BEARING PLATE DETAIL AND MASONRY NOTES FOR ADD'L REQUIREMENTS

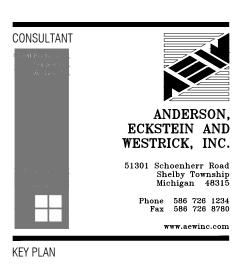


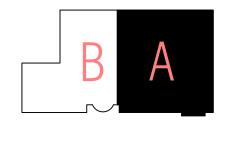
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#### OWNER

#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

### PROJECT NO.

## 13-162

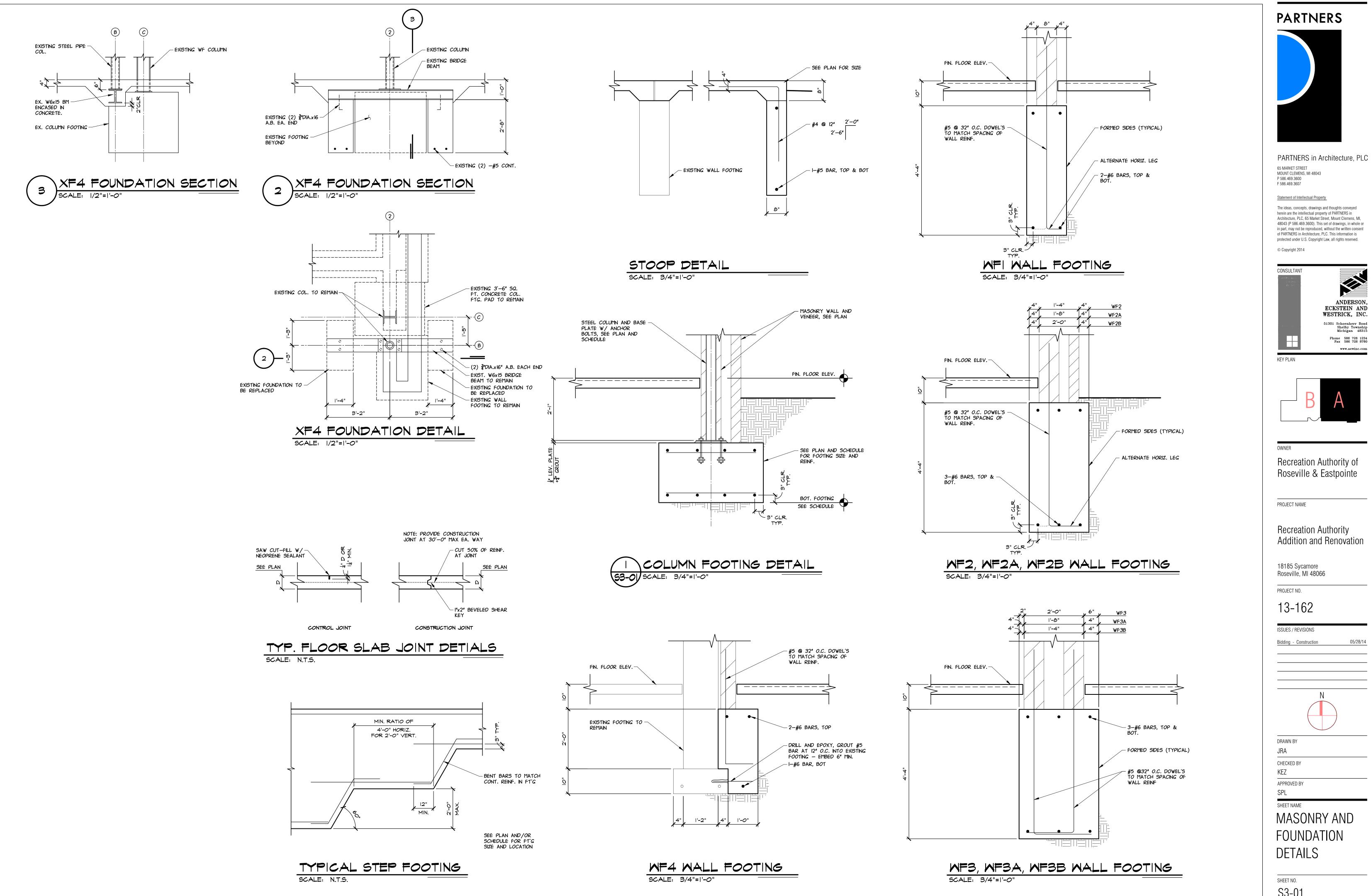
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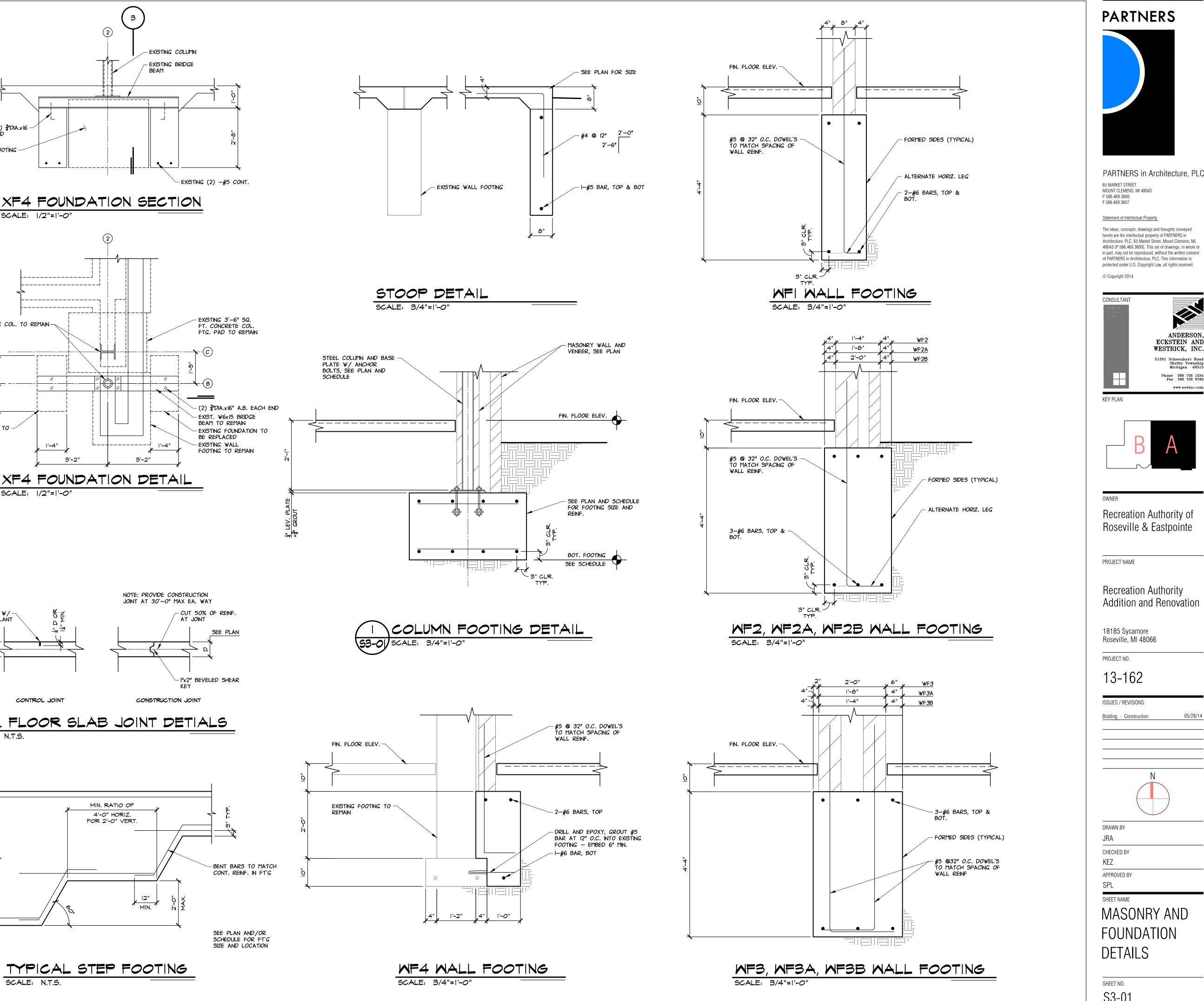
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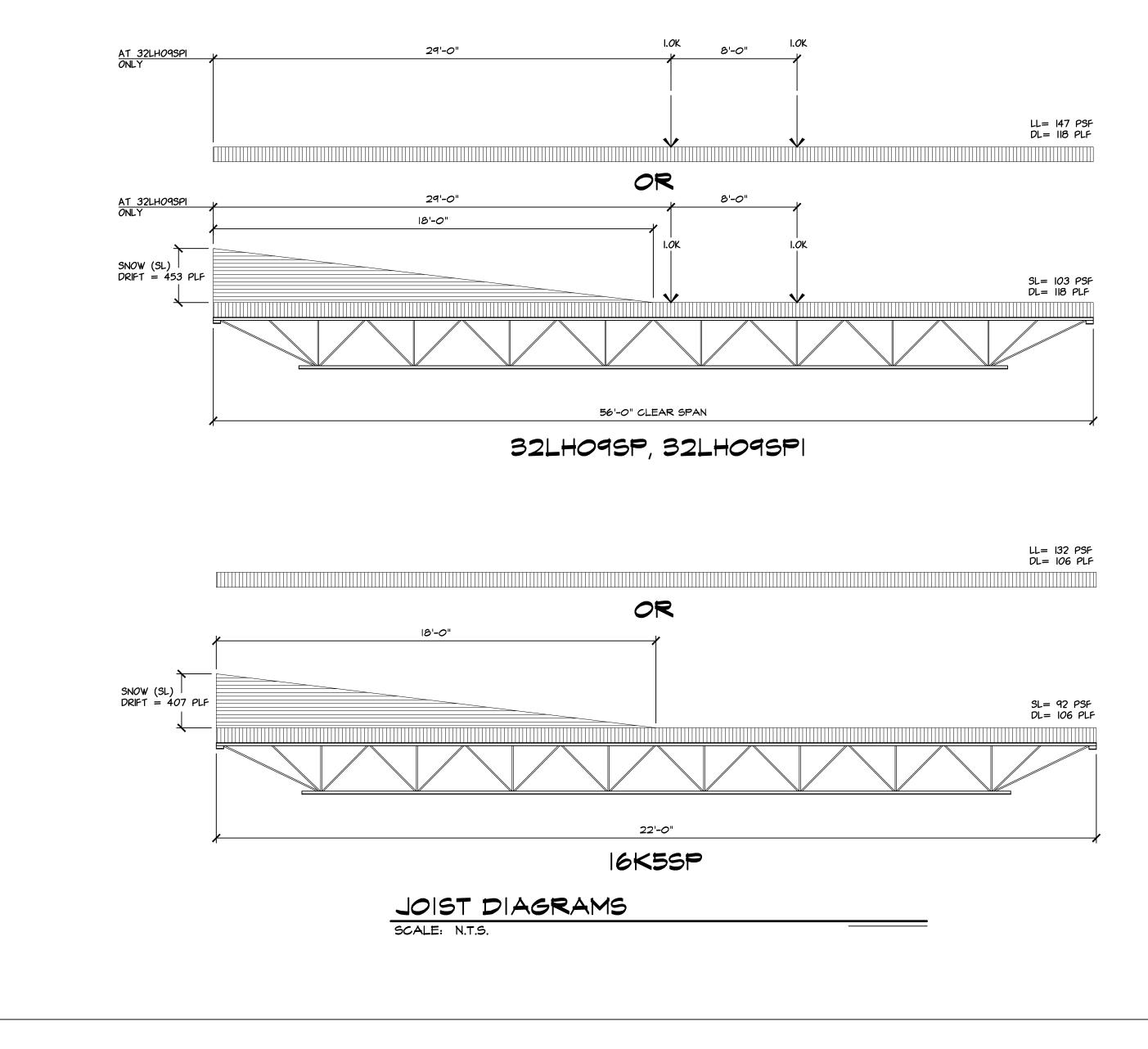
LINTEL AND SHORING PLANS

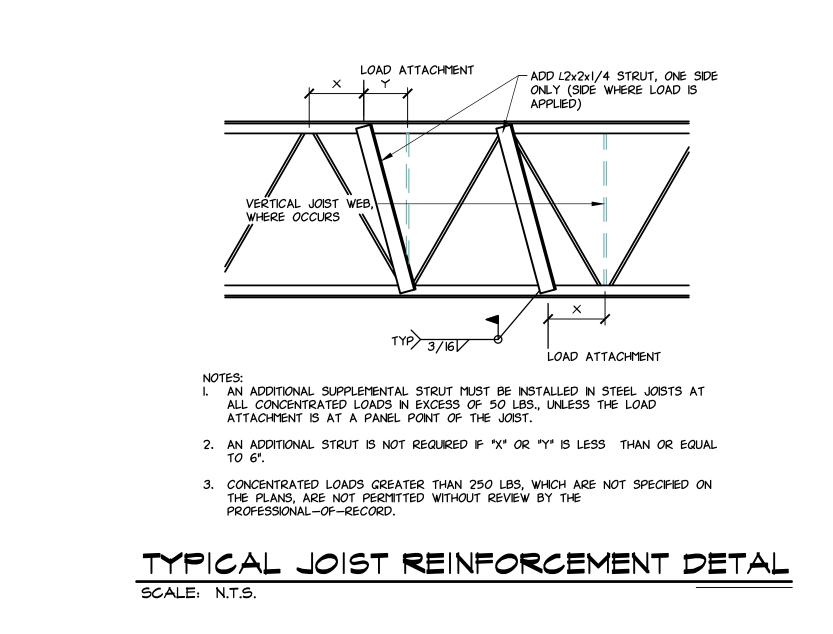
SHEET NO. S2-02

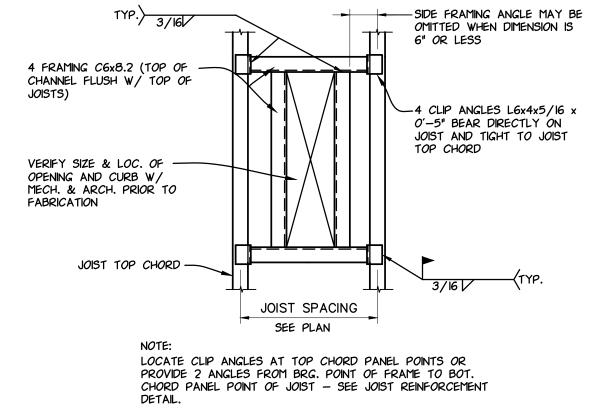




S3-01

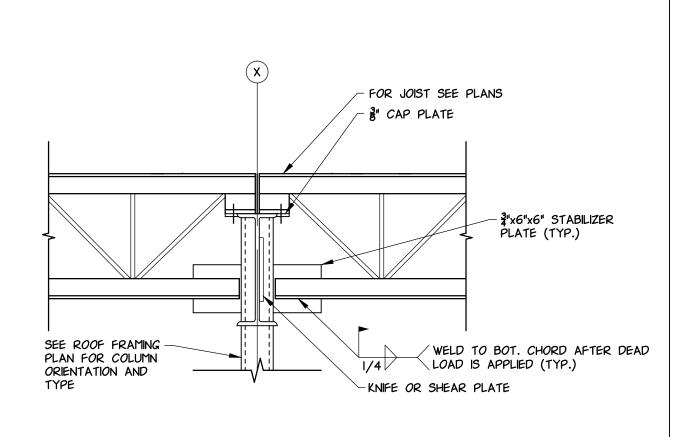




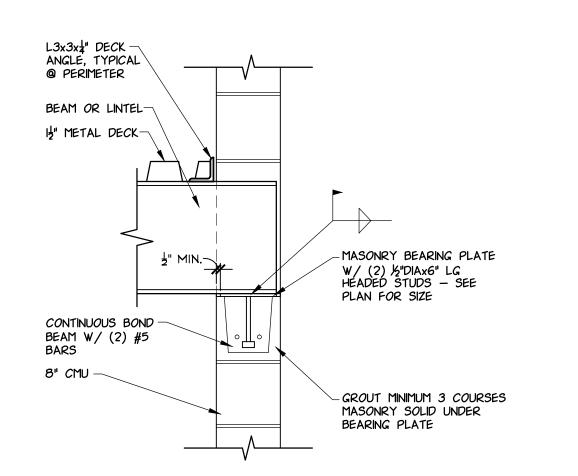


TYPICAL CURB FRAMING DETAL

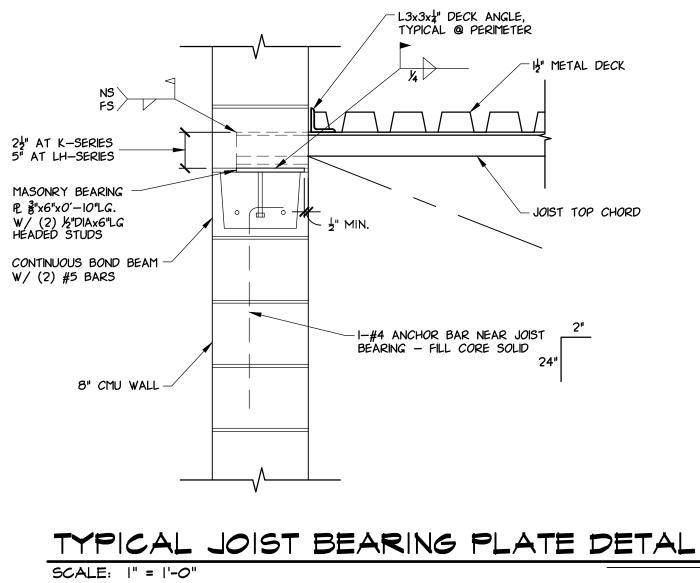
SCALE: N.T.S.



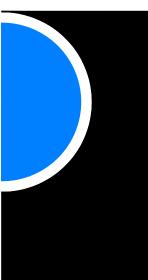
#### TYPICAL JOIST / BEAM TO COL. CONN. DETAL SCALE: |" = |'-0"







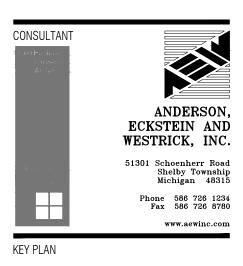
### PARTNERS

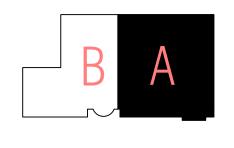


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#### OWNER Recreation Authority of Roseville & Eastpointe

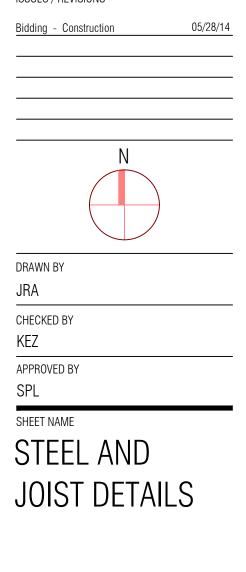
#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

#### PROJECT NO. 13-162

PROJECT NAME

### ISSUES / REVISIONS



SHEET NO. S3-02

#### GENERAL NOTES FOR SITE CONDITIONS

- I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION.
- 2. THE CONTRACTOR SHALL COORDINATE HIS WORK ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER'S OPERATION OF THE FACILITY.
- 3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, BEFORE COMMENCING WITH SHOP DRAWING PREPARATION. REPORT EXISTING CONDITIONS WHICH DO NOT CONFORM WITH THE DETAILS PROVIDED BY THE ARCHITECT.

#### GENERAL NOTES FOR MASONRY

- I. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530.1-13 -SPECIFICATION FOR MASONRY STRUCTURES, AND NCMA SPECIFICATIONS.
- 2. LOAD BEARING CONCRETE MASONRY SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT WITH NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 1900 PSI (MIN).
- 3. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270 AND NCMA TEK NOTES 9-1 OR 9-2. NET AREA COMPRESSIVE STRENGTH OF MASONRY (f'm) = 1500 PSI (MIN).
- 4. MASONRY GROUT SHALL CONFORM TO ASTM C 476 WITH PEA GRAVEL AGGREGATE AND A MINIMUM STRENGTH OF 2000 PSI.
- 5. UNLESS OTHERWISE NOTED, PROVIDE HORIZONTAL WIRE TYPE REINFORCING WITH 9 GAUGE SIDE AND CROSS MEMBERS IN EVERY SECOND COURSE (16" O.C.), IN ALL MASONRY WALLS.
- 6. REINFORCING BARS, DOWELS AND TIES SHALL CONFORM TO ASTM AGI5, GRADE 60.
- 7. INSTALL 8" DEEP CONCRETE MASONRY LINTELS OVER PEDESTRIAN DOOR OPENINGS UNLESS NOTED OTHERWISE. GROUT MASONRY LINTELS SOLID AND REINFORCE W/2-#5 BARS (BOTTOM). MAINTAIN MINIMUM 8 INCH BEARING ON EACH SIDE OF OPENING, SOLID GROUT WALL FOR BEARING LENGTH AND REINFORCE W/2-#5 VERTICAL BARS FULL HEIGHT
- 8. REFER TO LINTEL SCHEDULE FOR STEEL LINTEL AND BEARING PLATE SIZES. SOLID GROUT WALL FOR BEARING LENGTH AND REINFORCE INDICATED VERTICAL BARS FULL HEIGHT.
- 9. ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLD.
- 10. UNLESS OTHERWISE NOTED, REINFORCE BOND BEAMS WITH 2-#5 BARS. REFER TO ARCHITECTURAL DRAWING FOR WALL SECTIONS.

#### GENERAL NOTES FOR REINFORCED CONCRETE AND FOUNDATIONS

- CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301-10 SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, AND ACI 302.IR-04 - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
- 2. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN COMPLIANCE WITH ACI 315-99 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, AND THE CRSI - MANUAL OF STANDARD PRACTICE (28TH EDITION). SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR THE ENGINEER'S REVIEW. SUBMITTAL SHALL INCLUDE TWO (2) BLACKLINES (MINIMUM).
- 3. CONCRETE USED IN SLAB ON GROUND SHALL BE NORMAL WEIGHT CONCRETE AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I. MINIMUM CEMENT CONTENT SHALL BE 611 POUNDS PER CUBIC YARD.
- 4. CONCRETE USED IN BUILDING FOUNDATIONS, AND ALL OTHER CONCRETE UNLESS NOTED OTHERWISE, SHALL BE NORMAL WEIGHT CONCRETE AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. CEMENT SHALL COMPLY WITH ASTM C150, TYPE I. MINIMUM CEMENT CONTENT SHALL BE 564 POUNDS PER CUBIC YARD.
- 5. SUBMIT CONCRETE MIX DESIGNS FOR EACH CONCRETE MIX FOR THE ENGINEER'S REVIEW. SUBMITTAL SHALL INCLUDE, AT A MINIMUM, MIX PROPORTIONS, CEMENT TYPE AND SOURCE, AGGREGATE GRADATIONS AND SOURCE, ADMIXTURE CATALOG INFORMATION, CYLINDER STRENGTH TEST RESULTS ON SPECIMENS FOR IDENTICAL MIX DESIGN, OR OTHER PROOF OF STRENGTH PER ACI 301.
- 6. CONCRETE AGGREGATES SHALL COMPLY WITH ASTM C33 AND SHALL BE FREE OF CLAY, LOAM, LUMPS OR OTHER DELETERIOUS SUBSTANCES.
- 7. REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 OR ASTM A616 (GRADE 60) AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI.
- 8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, BE FURNISHED IN FLAT SHEETS, AND HAVE MINIMUM SIDE AND END LAP OF 8 INCHES.
- 9. EXTERIOR CONCRETE, AND INTERIOR CONCRETE SUBJECTED TO FREEZE/THAW CYCLES, SHALL BE AIR ENTRAINED WITH 6% AVERAGE AIR CONTENT WITH A 1% TOLERANCE. AIR ENTRAINMENT SHALL COMPLY WITH ASTM C260.
- IO. REINFORCING SHALL HAVE EITHER TENSION EMBEDMENT OR TENSION CLASS "B" LAP SPLICE UNLESS OTHERWISE NOTED.
- II. PROVIDE HORIZONTAL BENT BARS AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS, TRENCH FOOTINGS AND STRIP FOOTINGS USING THE SAME SIZE AND SPACING AS FOR THE HORIZONTAL REINFORCING DETAILED UNLESS OTHERWISE NOTED.
- 12. PROVIDE SMOOTH FORMED FINISH ON EXPOSED CONCRETE WALLS AND FOUNDATIONS.
- 13. PROVIDE 3/4 X 3/4 BEVELED EDGES AT CORNERS OF EXPOSED CONCRETE MEMBERS, UNLESS NOTED OTHERWISE.
- 14. CONSTRUCTION JOINTS SHALL HAVE A FORMED KEY CENTERED ON MEMBER. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY SHALL BE ONE FOURTH OF THE CROSS SECTION MEMBER AND MINIMUM I INCHES INTO THE FIRST POUR OF CONCRETE.
- 15. DO NOT PROCEED WITH DETAILING, FABRICATION, OR CONSTRUCTION OF ANY WORK CONNECTED WITH OR DEPENDENT ON EQUIPMENT FURNISHED BY OWNER OR OTHER CONTRACTORS UNTIL DIMENSIONS AND DETAILS ARE VERIFIED WITH CERTIFIED OR APPROVED EQUIPMENT DRAWINGS.
- IG. BEFORE PLACING CONCRETE, REFER TO OTHER TRADE DRAWINGS AND COORDINATE THE LOCATION AND SIZE OF ITEMS SUCH AS OPENINGS, SLEEVES, EQUIPMENT PADS, PIPING, CONDUIT, DRAINS, DEPRESSED FLOORS, DOOR HOLDDOWNS IN GRADE WALLS, EMBEDDED ITEMS, ETC.
- 17. DRILL-IN ANCHOR BOLTS SHALL BE HVA ADHESIVE ANCHORING SYSTEM AS MANUFACTURED BY HILTI. ANCHOR BOLTS SHALL BE 304 STAINLESS STEEL.
- 18. NON-SHRINK GROUT SHALL BE SURE GRIP HIGH PERFORMANCE GROUT, OR APPROVED EQUAL, AS MANUFACTURED BY DAYTON SUPERIOR CORPORATION.
- 19. CONCRETE CONSTRUCTION SHALL INCLUDE PROVISIONS FOR COLD WEATHER CONCRETING, IN COMPLIANCE WITH ACI 306R-10 GUIDE TO COLD WEATHER CONCRETING.
- 20. CONCRETE FORMS SHALL REMAIN IN PLACE A MIN. OF 48 HOURS OR UNTIL THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS DESIGN STRENGTH.
- 21. CONCRETE SHALL ATTAIN ITS 28 DAY DESIGN STRENGTH BEFORE COMMENCING WITH BACK FILLING OPERATIONS.
- 22. CONTROL OR CONSTRUCTION JOINTS, REQUIRED BY THE CONTRACTOR, IN ADDITION TO THE JOINTS SHOWN ON THE DRAWINGS, SHALL BE SUBJECT TO THE REVIEW OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A PLAN OF THE PROPOSED JOINTING BEFORE PROCEEDING WITH THE AFFECTED WORK.
- 23. PLACE TWO ADDITIONAL #5 BARS AROUND ALL OPENINGS LARGER THAN ONE FOOT SQUARE OR DIAMETER. EXTEND BARS A MINIMUM 24 INCHES BEYOND OPENINGS, UNLESS OTHERWISE NOTED.
- 24. SIDES OF FOUNDATIONS SHALL BE FORMED.
- 25. STRUCTURE BACKFILL SHALL CONSIST OF CLEAN, WELL GRADED GRANULAR SOILS, FREE OF ORGANIC MATERIAL, SILT AND CLAY. PLACE BACKFILL IN LAYERS, NOT MORE THAN 6 INCHES IN DEPTH, AND COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM UNIT WEIGHT, AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM DI557) AND VERIFIED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN. PLACE BACKFILL ALTERNATING EACH FACE OF WALLS TO BALANCE PRESSURE TO WALLS.
- 26. FOUNDATIONS SHALL BEAR ON UNDISTURBED VIRGIN SOIL, FREE OF VEGETATION AND ORGANIC MATERIALS, WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 PSF, VERIFIED BY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY G2 CONSULTING GROUP, PROJECT NO. 140111.
- 27. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY A QUALIFIED TESTING AGENCY NOT LESS THAN ONCE PER DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD: A. SLUMP - ASTM C143
  - B. AIR CONTENT ASTM CI73
  - C. COMPRESSIVE STRENGTH C39 (WITH I CYLINDER AT 7 DAYS, 2 CYLINDERS AT 28 DAYS AND I CYLINDER HELD IN RESERVE)

#### GENERAL NOTES FOR STRUCTURAL STEEL

Ι.	DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:	I2. JOIST B CENTRO OTHERW
	<ul> <li>A. AISC STEEL CONSTRUCTION MANUAL (14TH EDITION) INCLUDING:</li> <li>I) AISC 360-10 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN</li> <li>2) AISC 348-09 - SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (RCSC)</li> <li>3) AISC 303-10 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES</li> <li>B. AISC 326-09 - DETAILING FOR STEEL CONSTRUCTION</li> <li>C. AWS DI.1-10 - STRUCTURAL WELDING CODE - STEEL</li> </ul>	13. SPECIAL THE LOI
2.	. WIDE FLANGE SHAPES SHALL BE ASTM A992, $F_y = 50,000$ PSI.	GEN
3.	. MISCELLANEOUS SHAPES AND PLATE SHALL BE ASTM A36, Fy = 36,000 PSI.	I. COMPLY INSTITUT

4. HSS STEEL SHALL BE ASTM A500, GRADE B,  $F_y = 46,000$  PSI.

5. ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55,  $F_y = 55,000$  PSI.

- 6. COMPOSITE SHEAR STUDS SHALL BE NELSON "FLUXED SHEAR CONNECTOR STUDS" OR APPROVED SUBSTITUTE AND WELDED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 7. STEEL ELEVATIONS SHALL BE AS INDICATED ON PLANS AND DETAILS.
- 8. PRIOR TO FABRICATION THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL CONSIST OF TWO SETS OF BLACKLINE DRAWINGS (MIN).
- 9. INSTALL ASTM A325 BOLTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS, USING ONE HARDENED WASHER UNDER THE TURNED ELEMENT, AND AN IMPACT WRENCH TO ACHIEVE FIRM CONTACT BETWEEN CONNECTED PLIES AND A SNUG TIGHT CONDITION.
- IO. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS. PERFORM ALL WELDING BY THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE AWS DLI STRUCTURAL WELDING CODE.
- II. PERFORM WELDING WITH SPECIFIED ELECTRODES AND QUALIFIED WELDERS, WELDING OPERATORS, AND TACKERS AS APPROPRIATE, PER SPECIFIED REFERENCE STANDARDS. PROVIDE NECESSARY JIGS AND HOLDING DEVICES FOR SHOP WELDING. CONTROL WELDING SEQUENCE TO MINIMIZE RESIDUAL STRESSES AND MEMBER DISTORTION.
- 12. MAKE BOLTED CONNECTIONS WITH 3/4 INCH DIAMETER ASTM A325N BEARING TYPE BOLTS (WITH THREADS ASSUMED IN THE SHEAR PLANE) UNLESS OTHERWISE NOTED.
- 13. CONNECTIONS SHALL BE A MINIMUM OF TWO 3/4 INCH DIAMETER ASTM A325N BOLTS OR A WELD DEVELOPING A MINIMUM OF 10 KIPS.
- 14. SUBMIT DRAWINGS AND CALCULATIONS OF TYPICAL CONNECTION DETAILS FOR APPROVAL PRIOR TO PROCEEDING WITH DETAILING.
- 15. DESIGN BEAM CONNECTIONS FOR MINIMUM ONE-HALF OF THE TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM LOAD TABLES, UNLESS NOTED OTHERWISE. CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR END REACTIONS NOTED ON THE DRAWINGS OR A MINIMUM TWO-THIRDS OF THE TOTAL ALLOWABLE UNIFORM LOAD PER AISC BEAM LOAD TABLES, WHICHEVER IS GREATER.
- 16. PROVIDE ADEQUATE LATERAL BRACING AND VERTICAL SUPPORT FOR THE SAFE ERECTION AND ALIGNMENT OF THE STRUCTURAL STEEL.
- 17. FURNISH MEMBERS OF PROPER LENGTH AND ASSEMBLE WITHOUT EXCESSIVE USE OF FILLERS FIELD VERIFY DIMENSIONS BEFORE FABRICATION WHEN CONNECTING TO EXISTING STRUCTURE. JOIN AND ASSEMBLE MEMBERS WITHOUT SHARP PROJECTIONS, SERRATED EDGES, SHARP EDGES OR SHARP CORNERS AT JOINTS. COPE, BLOCK, MITER AND GRIND EDGES WITH CARE. FURNISH MEMBERS FREE FROM TWISTS, BENDS, DISTORTIONS AND OPEN JOINTS
- 18. GROUT PADS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN SEVEN DAYS.
- 19. ANCHOR BOLTS AND SETTING PLANS SHALL BE FURNISHED BY THE STRUCTURAL STEEL FABRICATOR AND SET BY THE FOUNDATION CONTRACTOR.
- 20. ALL WELDED CONNECTIONS SHALL BE VISUALLY INSPECTED, WITH 15% MEASURED AT RANDOM. VISUALLY INSPECT THAT ALL BOLTED CONNECTIONS ARE PROPERLY FABRICATED, WITH PROPER COMPONENTS, AND THE JOINT IS DRAWN INTO FIRM CONTACT.
- 21. ELEVATIONS ARE REFERENCED FROM FINISH FLOOR ELEVATION =  $100^{\circ}-0^{\circ}$ .
- 22. COUPLER NUTS MAY BE PROVIDED AT ANCHOR BOLTS SO THAT ANCHOR BOLTS CAN BE INSTALLED IN TWO PIECES TO MAXIMIZE VERTICAL CLEARANCE FOR COLUMN ERECTION.
- 23. THE USE OF A GAS-CUTTING TORCH IN THE FIELD FOR CUTTING HOLES OR FOR CORRECTING FABRICATION ERRORS WILL NOT BE PERMITTED ON STRUCTURAL FRAMING MEMBERS EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER FOR EACH SPECIFIC CONDITION.
- 24. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER SUCH AS "TNEMEC PRIMER 10-99" OR APPROVED EQUIVALENT. ALL STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP3. REMOVE LOOSE RUST, LOOSE MILL SCALE AND SPLATTER SLAG OR FLUX DEPOSITS. ALL PAINTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
- 25. SHOP PRIME AND PAINT STRUCTURAL STEEL. FIELD TOUCH-UP FINISH COAT AFTER ERECTION.
- 26. STEEL ABOVE THE ROOF AND OUTSIDE THE BUILDING ENVELOPE (EXPOSED TO WEATHER) SHALL BE CLEANED PER SSPC-SP6 AND HOT DIP GALVANIZED.
- 27. REFERENCE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS SHAPES AND PLATES NOT SHOWN ON THE STRUCTURAL DRAWINGS. THESE ITEMS SHALL BE SHOP WELDED TO THE STRUCTURAL FRAMING TO MINIMIZE FIELD WELDING.
- 28. ROOF OPENINGS SHALL BE FRAMED WITH L4X3X1/4 LLV, UNLESS NOTED OTHERWISE. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE TRADES INVOLVED.

#### GENERAL NOTES FOR STEEL JOISTS

- DESIGN, DETAILING, FABRICATION, AND ERECTION OF STEEL JOISTS SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS:
- A. SJI-K-2010 STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES B. SJI-LH/DLH-2010 - STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS, LH-SERIES AND DEEP LONGSPAN STEEL JOISTS, DLH-SERIES
- 2. THE SPACING, TYPE AND INSTALLATION OF BRIDGING SHALL CONFORM TO THE STEEL JOIST INSTITUTE REQUIREMENTS UNLESS OTHERWISE NOTED.
- 3. STEEL JOISTS SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER IN CONFORMANCE WITH THE STEEL JOIST INSTITUTE. 4. MECHANICAL EQUIPMENT SHALL NOT BE PLACED DIRECTLY ON THE JOISTS WITHOUT THE APPROVAL OF THE ENGINEER. NO EQUIPMENT SHALL BE
- SUPPORTED FROM THE BOTTOM CHORD OR BETWEEN PANEL POINTS OF THE JOISTS OR JOIST GIRDERS. 5. ALL STEEL JOISTS, SHALL BE INSPECTED BY AN AGENCY RETAINED BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE INSPECTION AGENCY OF THE PROGRESS OF THE STEEL ERECTION AND TO NOTIFY THE AGENCY 24 HOURS PRIOR TO A REQUESTED INSPECTION. THE
- CONTRACTOR SHALL PROVIDE ANY ASSISTANCE REQUIRED BY THE INSPECTOR FOR THE COMPLETION OF HIS DUTIES.
- 6. ALL REQUIREMENTS FOR INSPECTION, WELDER'S CERTIFICATION, AND SHOP DRAWINGS AS DESCRIBED IN THE STRUCTURAL STEEL NOTES SHALL APPLY TO STEEL JOISTS.
- 7. PROVIDE BOLTED ERECTION CONNECTION FOR JOIST CLOSEST TO CENTERLINE OF THE COLUMNS.
- 8. TRAPEZE HANGERS FOR PIPING SUPPORT ARE PERMITTED AS FOLLOWS:
- A. NO MORE THAN ONE TRAPEZE HANGER ON A JOIST.
- B. NO MORE THAN 300 POUNDS SUPPORTED BY ANY SINGLE TRAPEZE HANGER. C. ADDITIONAL JOIST REINFORCEMENT PER INDICATED DETAILS IS TO BE USED IF TRAPEZE HANGER IS FURTHER THAN SIX INCHES FROM A JOIST PANEL POINT
- 9. DESIGN DETAILS ARE BASED ON A JOIST SEAT HEIGHT OF 2 1/2 INCHES FOR K-SERIES JOISTS AND 5 INCHES FOR LH-SERIES JOISTS.
- IO. THE JOIST SUPPLIER SHALL COORDINATE WITH THE STEEL FABRICATOR AND SHALL PROVIDE ALL BRACING CONNECTION PLATES AND HOLES REQUIRED TO CONNECT THE BRACING TO THE JOISTS. DETAILED SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE START OF FABRICATION.
- II. JOIST BOTTOM CHORDS SHALL HAVE EXTENSIONS FOR CEILING SUPPORT WHERE SUSPENDED CEILINGS ARE SPECIFIED ON THE ARCHITECTURAL DRAWINGS.

A924.

#### DESIGN CRITERIA

CODE: MICHIGAN BUILDING CODE 2009 (MBC)

DEAD LOAD ROOFING INSULATION METAL DEC FRAMING UTILITIES

CEILING

TOTAL DEAD LOAD: LIVE LOAD

WIND DESIGN CRITERIA OCCUPANCY CATEGORY: || WIND IMPORTANCE FACTOR, IW=1.0 BASIC WIND SPEED VS=90 MPH EXPOSURE CATEGORY C SIMPLIFIED WIND LOAD PROCEDURE COMPONENT AND CLADDING: MBC SECTION 1609.6.2.2

SITE CLASS: D SEISMIC DESIGN CATEGORY: B

#### GENERAL NOTES FOR STEEL JOISTS (CONTINUED)

BEARING SUPPORTS ON BEAMS AND MASONRY WALLS SHALL BE DESIGNED AND FABRICATED SUCH THAT THE ROID OF THE BEARING (AND END REACTION) IS ON THE BEAM AND WALL CENTERLINES. UNLESS NOTED RWISE.

IAL JOISTS DESIGNATED ON THE PLANS BY "SP" AFTER THE JOIST SIZE DESIGNATION SHALL BE DESIGNED FOR LOAD CASES ON THE INDICATED JOIST DIAGRAMS.

### NERAL NOTES FOR LIGHT GAGE METAL FRAMING

PLY WITH THE APPLICABLE REQUIREMENTS OF THE MICHIGAN BUILDING CODE AND THE AMERICAN IRON AND STEEL IUTE, SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND THE CENTER FOR COLD-FORMED STEEL STRUCTURES TECHNICAL BULLETIN, VOL. 2 NO. 1,1996; AISI SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS.

2. COLD FORMED STEEL FRAMING SHOWN ON CONTRACT DRAWINGS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) ENGINEERING DESIGN PROPERTIES. CONTRACTOR MUST SUBMIT ENGINEERED PRODUCT INFORMATION SHOWING THAT MANUFACTURER'S SUPPLIED MEMBERS PROVIDE EQUIVALENT STRENGTH AND STIFFNESS.

3. INSTALLING CONTRACTOR SHALL SUBMIT SEALED CALCULATIONS AND SHOP DRAWINGS INDICATING CAPACITY OF MEMBER, FRAMING DETAILS, CONNECTIONS, BRACING, BRIDGING AND ALL OTHER ACCESSORIES CONFORMING TO DESIGN CRITERIA. CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED BY AN ENGINEER EXPERIENCED IN THE DESIGN OF LIGHT GAGE CONSTRUCTION AND LICENSED IN THE STATE OF MICHIGAN.

4. COLD-FORMED METAL FRAMING SHALL BE OF THE SIZE, GAGE AND SECTION PROPERTIES AS REQUIRED FOR THE SPECIFIC LOADING CONDITION AND CONFORM TO ASTM A653. ALL METAL FRAMING 16 GAGE AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI, ALL METAL FRAMING 18 GAGE AND LIGHTER SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. ALL FRAMING SHALL BE HOT-DIPPED GALVANIZED (G-60) IN ACCORDANCE WITH ASTM

5. WELDING OF LIGHT GAGE METAL FRAMING SHALL NOT BE PERMITTED.

6. ALL METAL FRAMING SHALL BE SAW CUT, SQUARE AND TRUE. CUTTING OF METAL FRAMING WITH A TORCH WILL NOT BE PERMITTED.

7. NO SPLICES WILL BE PERMITTED IN ANY FRAMING UNLESS SHOWN OR NOTED ON THE DRAWINGS.

8. METAL FRAMING FOR EXTERIOR WALL APPLICATIONS SHALL BE 18 GAGE MINIMUM.

9. CONNECTIONS FOR LIGHT GAGE FRAMING SHALL BE AS MANUFACTURED BY THE STEEL NETWORK, INC. OR APPROVED SUBSTITUTE.

10. RAP TIES SHALL BE "FERO" SLOTTED SIDE MOUNTING RAP-TIE WITH INSULATION SUPPORT OR APPROVED EQUAL.

ROOF DESIGN LOAD

2	
	I.O PSF
	4.5 PSF
CK	2.5 PSF
	4.0 PSF
	5.0 PSF
	3.0 PSF

20.0 PSF 25.0 PSF

GROUND SNOW LOAD, Pg=25.0 PSF SNOW EXPOSURE FACTOR,  $C_{c}=1.0$ THERMAL FACTOR, Ct=1.1

SNOW LOAD IMPORTANCE FACTOR, IS=1.0

SEISMIC DESIGN CRITERIA OCCUPANCY CATEGORY: I SEISMIC IMPORTANCE FACTOR, Is=1.0

MAPPED SPECTRAL RESPONSE ACCELERATION, Ss=0.111 MAPPED SPECTRAL RESPONSE ACCELERATION, SI=0.042

SPECTRAL RESPONSE COEFFICIENT, Sds=0.1184 SPECTRAL RESPONSE COEFFICIENT, Sdi=0.0672

BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS. DESIGN BASE SHEAR: F = 0.039W

ANALYSIS PROCEDURE USED: ASCE 7-02 SECTION 9.5.5, EQUIVALENT LATERAL FORCE PROCEDURE

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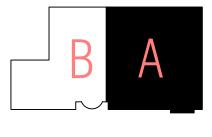
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#### Recreation Authority of Roseville & Eastpointe

PROJECT NAME

#### Recreation Authority Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

**ISSUES / REVISIONS** Bidding - Construction

05/28/14

DRAWN BY JRA CHECKED BY

KEZ APPROVED BY

SHEET NAME GENERA NOIES

SHEET NO. S4-01

#### ABBREVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT	F	FAHRENHEIT
AD	ACCESS DOOR	FD	FLOOR DRAIN
AFF	ABOVE FINISHED FLOOR	FLR	FLOOR
AHU	AIR HANDLING UNIT	FPM	FEET PER MINUTE
AP	ACCESS PANEL	FSW	FLOW SWITCH
ASR	AUTOMATIC SPRINKLER RISER	FS	FLOOR SINK
		FT.	FEET
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE
CC	COOLING COIL	HB	HOSE BIBB
CF	CENTRIFUGAL FAN	НО	HUB OUTLET
CFM	CUBIC FEET PER MINUTE	HP	HORSEPOWER
CI	CAST IRON	HW	HOT WATER (POTABLE)
CO	CLEAN OUT		· · · ·
COND	CONDENSATE	HWR	HOT WATER RETURN (POTABLE)
CONT	CONTINUATION		
CUH	CABINET UNIT HEATER	IN	INCHES
CW	COLD WATER	INL	INLET
CWS	CHILLED WATER SUPPLY	INV	INVERT
CWR	CHILLED WATER RETURN	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
Db	DRY BULB TEMPERATURE, *F	LBS/HR	POUNDS PER HOUR
dB	DECIBELS	LWT	LEAVING WATER TEMPERATURE
DDC	DIRECT DIGITAL CONTROL		
DET	DETAIL	MAX.	MAXIMUM
DIA	DIAMETER	MBH	1000 BTU/HR
DIA DN.	DOWN	MECH	MECHANICAL
DS.	DOWNSPOUT	MIN.	MINIMUM
DWG.	DRAWING	MISC	MISCELLANEOUS
EA	EXHAUST AIR	NC	NORMALLY CLOSED
ECUH	ELECTRIC CABINET UNIT HEATER	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	NO	NORMALLY OPEN
ELEV.	ELEVATION	NOM.	NOMINAL
ESP EUH	EXTERNAL STATIC PRESSURE ELECTRIC UNIT HEATER	NFWH	NON FREEZE WALL HYDRANT
EX.	EXISTING	AO	OUTSIDE AIR
EXH	EXHAUST	OF	OVERFLOW
EXIST	EXISTING	OFD	OVERFLOW DRAIN

#### GENERAL HVAC NOTES:

THE FOLLOWING NOTES APPLY TO ALL HVAC DRAWINGS, EXCEPT WHERE OTHERWISE INDICATED.

- WHEREVER VOLUME DAMPERS OCCUR ABOVE CEILINGS WITHOUT REMOVABLE 1. TILE AND AN ACCESS PANEL IS NOT FURNISHED, PROVIDE AN EXPOSED DAMPER REGULATOR TO ALLOW DAMPER ADJUSTMENT FROM BELOW CEILING. UNIT TO BE EQUAL TO VENTLOCK No. 666 IN 1/2"x3/8" SIZE.
- 2. ALL DIMMENSION SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
- 3. DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 4. THOUGH SOME OFFSETS & TRANSITIONS ARE SHOWN IN PIPING AND SHEET METAL TO HELP INDICATE THE PHYSICAL RELATIONSHIP BETWEEN THEM. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL PIPING AND SHEET METAL OFFSET & TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
- 5. DUCT PRESSURE CONSTRUCTION CLASSIFICATION SHALL BE AS SPECIFIED.
- 6. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE SAME NOMINAL SIZE AS INDICATED ON THE DRAWINGS.
- 7. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASE OR SUSPENDED CEILING.
- 8. ACCESS PANELS AND DOORS ARE REQUIRED THROUGH BUILDING CONSTRUCTION ASSEMBLIES SUCH AS WALLS, CEILING, PARTITONS AND FLOORS TO SERVICE AND MAINTAIN DAMPERS, CONTROL MOTORS, REGULATORS, VALVES, FLEXIBLE DUCT CONNECTIONS AND OTHER ITEMS OR DEVICES INCORPORATED IN MECHANICAL WORK. SUCH PANELS AND DOORS SHALL BE PROVIDED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ACESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, FIRE-RATING AND LOCATION AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILING AND BUILDING ASSEMBLIES. MINIMUM ACCESS PANEL AND DOOR SIZE SHALL BE 24 INCHES BY 18 INCHES UNLESS OTHERWISE NOTED.
- 9. ALL DUCTWORK PENETRATIONS FIRE-RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRE DAMPERS AND ACCESS DOOR.

#### PLUMBING, PIPING & FIRE PROTECTION

P	PUMP
PD	PRESSURE DROP (FEET OF WATER)
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RD/SP	ROOF DRAIN/STAND PIPE
BAL.	BALANCE
RET	RETURN
RF	RETURN FAN
RH	REHEAT COIL
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RS	ROOF SUMP
RC	RAIN CONDUCTOR
REL	RELOCATED
REB	REBALANCE
SA	SUPPLY AIR
SAN	SANITARY WASTE
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SG	SPECIFIC GRAVITY
SP	STATIC PRESSURE (INCHES OF WATER)
SPR	STAND PIPE
SPR	SPRINKLER
SPR/STP	SPRINKLER STANDPIPE
SPS	STATIC PRESSURE SENSOR
STK	STACK
TP	TOTAL PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VALVE
VTR	VENT THRU ROOF
W	WASTE
WG	WATER GAUGE
WH	WALL HYDRANT

#### PLUMBING GENERAL NOTES:

1. FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES AND VARIOUS PIECES OF EQUIPMENT REFER TO SPECIFICATIONS.

2. IN ALL WASTE DRAINAGE PIPING THE CONTRACTOR SHALL FURNISH AND INSTALL CLEANOUTS (IN ADDITION TO THE CLEANOUTS INDICATED ON DRAWINGS AS REQUIRED BY THE GOVERNING PLUMBING CODE). 3. REFER TO HVAC GENERAL NOTE-4

4. FOR ADDITION NOTES COMMON TO PLUMBING REFER TO HVAC NOTES.

#### FIRE PROTECTION GENERAL NOTES:

1. AREA UNDER RENOVATION IS TO BE FULLY SPRINKLERED. SPRINKLER SYSTEM DESIGN AND LAYOUT TO BE IN COMPLIANCE WITH NFPA 13. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. ALL UNFINISHED/UNOCCUPIED AREAS SHALL BE TREATED AS STORAGE AREAS.

2. REMOVE ALL AUTOMATIC SPRINKLER HEADS PRESENTLY INSTALLED IN THE AREA OF RENOVATION AND TURN OVER TO THE OWNER. FIELD VERIFY LOCATION OF EXISTING HEADS AND SPRINKLER PIPING LOCATION PRIOR TO DESIGN & INSTALLATION. CONNECT NEW SPRINKLER HEADS TO EXISITNG MAINS IF FEASABLE, PROVIDE NEW MAIN VALVES, FLOW SWITCHES AS REQUIRED. WORK SHALL BE PHASED SO THAT FIRE PROTECTION SERVICE WILL NOT BE INTERRUPTED FOR THE ADJACENT SPACES DURING ALTERATIONS.

3. DO NOT SCALE THE PLUMBING AND FIRE PROTECTION DRAWINGS FOR LOCATION OF CEILING MOUNTED SPRINKLER HEADS. ALL CEILING MOUNTED HEADS SHALL BE COORDINATED WITH AND LOCATED AS SHOWN ON REFLECTED ARCHITECTURAL CEILING PLANS, UNLESS OTHERWISE NOTED.

4. ALL SPRINKLERS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE MIDDLE OF THE CEILING TILES UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL SERIES DRAWINGS.

5. REFER TO HVAC GENERAL NOTE-6.

6. THOUGH SOME FIRE PROTECTION MAINS ARE SHOWN ON THE DRAWINGS, ADDITIONAL PIPING ARE EXISTING AND REQUIRED TO BE REMOVED & TRASHED. FIELD VERIFY LOCATION PRIOR TO START OF DEMOLITION.

 $\longrightarrow$  $\overline{\mathbf{N}}$ \_\_\_\_\_ FS\_\_\_\_\_ ——<u>K.t</u> \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_||\_\_\_\_\_ • 0 \_\_\_\_\_I CO O WCO \_\_\_\_\_\_ GCO Ø  $\longrightarrow$ \_\_\_\_\_ \_\_\_\_\_뎍 -----7 \_\_\_\_\_O ————————— **—** 

ITEM TO BE REMOVED EXISTING WORK NEW WORK ISOLATION VALVE CHECK VALVE WATER FLOW SWITCH VALVE IN RISER STRAINER PIPE ANCHOR EXPANSION JOINT – SLIDING ALIGNMENT GUIDE UNION SPRINKLER HEAD ( PENDANT SPRINKLER HEAD ( UPRIGHT ) CLEANOUT CLEANOUT FLOOR CLEANOUT WALL CLEANOUT GRADE FLOOR DRAIN (FD) REDUCER - CONCENTRIC PRESSURE GAUGE WITH COCK THERMOMETER CAP OR PLUG ELBOW - TURNED DOWN ELBOW - TURNED UP TEE OUTLET - DOWN TEE OUTLET – UP DIRECTION OF FLOW BALANCING VALVE TWO-WAY MODULATING CONTROL VALVE

THREE-WAY MODULATING CONTROL VALVE

COLD WATER PIPING HOT WATER PIPING VENT PIPING ------ ST ------- STORM LINE ------ STM ------- STEAM ------ CR ------ CONDESATE RETURN ----- OXY ----- OXYGEN ——— MA ——— —— N2 —— —— N20—— — G — NATURAL GAS

MANUAL AIR VENT TEST PLUG (PRESSURE/TEMPERATURE) NEW CONNECTION ---- HOT WATER RETURN PIPING - - - SAN - - SANITARY LINE (UNDERGROUND) \_\_\_\_\_SAN \_\_\_\_\_ SANITARY LINE (AVOVE GROUND) MEDICAL AIR NITROGEN NITROUS OXIDE FIRE SPRINKLER PIPE (FS) — — HHWR — — HEATING HOT WATER RETURN \_\_\_\_\_CHWS \_\_\_\_\_ CHILLED WATER SUPPLY 

#### HVAC LEGEND & SYMBOLS

18x6
22x14ø
6"ø
DN
SD 

INDICATES RECTANGULAR DUCT WITH DUCT SIZE 18 INCHES WIDE (IN SIZE PERTAINS TO THE ENTIRE RUN OF	PLANE OF DRAWING) AN DUCT UNLESS OTHERW	D 6 INCHES DEEP. ISE NOTED.		
INDICATES FLAT OVAL DUCT WITH DUCT SIZE 22 INCHES WIDE (IN SIZE PERTAINS TO THE ENTIRE RUN OF	PLANE OF DRAWING) AN DUCT UNLESS OTHERW	D 14 INCHES DEEP. ISE NOTED.		
INDICATES ROUND DUCT WITH DUCT SIZE OF 6 INCHES IN DIAMETER. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT (FROM DUCT ORIGIN AT TAP TO END OF DUCT) UNLESS OTHERWISE NOTED.				
VANE TURN ELBOW & AIR SPLIT TYPE	DUCT TAKE-OFF			
INCLINED RISE IN RESPECT TO AIR FLO	W			
INCLINED DROP IN RESPECT TO AIR FLO	OW			
VANED ELBOW ( PROVIDE ALL SQUARE WITH VANES )	OR RECTANGULAR ELBO	ws		
VANED ELBOW (SHORT RADIUS)				
INDICATES FLEXIBLE DUCT (RUNOUT) OI SCHEDULED OR SHOWN. LENGTH SHALL	F SIZE AS . NOT EXCEED 5 FT.			
DUCT TURNING UP	MD	VOLUME CONTROL DAMPER (MANUAL)		
DUCT TURNING DOWN		FLEXIBLE CONNECTION OR FLEXIBLE DUCT CONNECTOR		
VERTICAL FIRE DAMPER	——— M	MOTORIZED DAMPER		
HORIZONTAL FIRE DAMPER	C	COMBINATION FIRE AND SMOR		
		RF SHEILDING DAMPER		
POINT OF NEW CONNECTION				
DUCT SMOKE DETECTOR	(3)	TEMPERATURE SENSOR		
ITEM TO BE REMOVED				
SUPPLY AIR DIFFUSER				

AND SMOKE DAMPER **I**PER

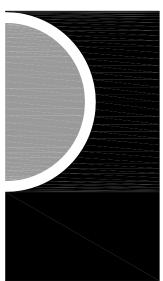
ISOR

RETURN AIR GRILLE

SUPPLY AIR GRILLE

LINEAR SUPPLY AIR DIFFUSER

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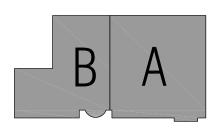
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#### Roseville - Eastpointe Recreation Authority

PROJECT NAME

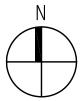
#### Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

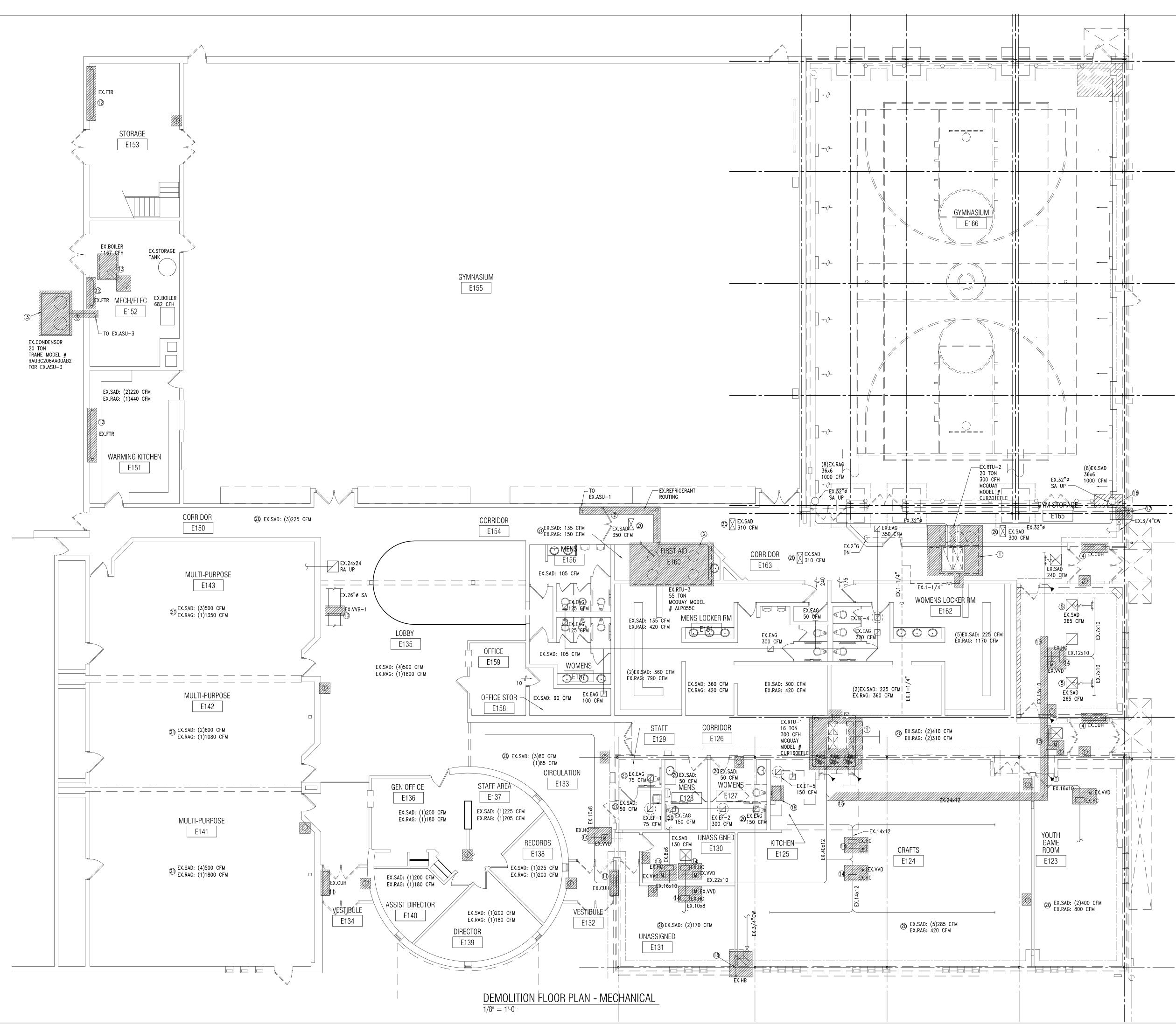
13-162

**ISSUES / REVISIONS** BIDDING - CONSTRUCTION 5-28-2014



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SHEET NAME MECHANICAL SYMBOLS LIST, INDEX AND <u>NOTES</u> SHEET NO. M0-01



- DEMOLITION NOTES: (1) REMOVE AND LEGALLY DISCARD EXISTING GAS FIRED ROOF TOP UNIT AND RELATED CONTROLS. DISCONNECT EXISTING GAS LINE AND PREPARE LINE FOR RECONNECTION. PREPARE EXISTING ROOF CURB TO ACCOMMODATE NEW UNIT. PREPARE EXISTING DUCTS WORK TO RECONNECT TO NEW ROOF TOP UNIT. (2) REMOVE AND LEGALLY DISCARD EXISTING CONDENSER AND ALL RELATED ACCESSORIES, REFRIGERANT LINES AND CONTROLS. REUSE EXISTING EQUIPMENT RAILS/PAD FOR THE NEW ROOF TOP UNIT. (3) REMOVE AND LEGALLY DISCARD EXISTING CONDENSER AND ALL RELATED ACCESSORIES, REFRIGERANT LINES AND CONTROLS. (4) REMOVE AND LEGALLY DISCARD EXISTING HOT WATER CABINET UNIT HEATER AND ALL RELATED ACCESSORIES AND CONTROLS. CAP EXISTING HOT WATER HEATING PIPING AT MAIN. MAIN. PREPARE MAIN DUCT TO ACCEPT NEW CONNECTION.
- (6) PREPARE EXISTING DUCT TO ACCEPT A NEW CONNECT. REFERT TO NEW

 $(\overline{7})$  REMOVE AND LEGALLY DISCARD EXISTING ASU WITH ALL ASSOCIATED DUCTWORK, CONTROLS, CONCRETE PAD, HEATING HOT WATER PIPING TO

(8) REMOVE AND LEGALLY DISCARD EXISTING RELATED RETURN FAN AND

(1) REMOVE AND LEGALLY DISCARD EXISTING VVB, HEATING HOT WATER COIL.

(1) REMOVE AND LEGALLY DISCARD EXISTING HEATING HOT WATER CABINET

(2) REMOVE AND LEGALLY DISCARD EXISTING HEATING HOT WATER FINE TUBE

(4) REMOVE AND LEGALLY DISCARD EXISTING VVB, CONTROLS, HEATING HOT WATER COIL AND PIPING TO MAIN. PREPARE DUCT TO ACCEPT NEW

(5) REMOVE AND LEGALLY DISCARD EXISTING DUCT AS INDICATED. PREPARE

(6) CAREFULLY REMOVE AND REINSTALL EXISTING WATER COOLER. COLD WATER

1 remove and legally discard existing hose bib and cap water line

1 REMOVE AND LEGALLY DISCARD EXISTING HOSE BIB AND PREPARE WATER

DISPOSAL FOR THE NEW SINK. PREPARE PLUMBING UTILITIES TO ACCEPT

1. CONTRACTORS TO PROTECT ALL EXISTING PLUMBING UTILITIES IN EXISTING

19 REMOVE AND LEGALLY DISCARD EXISTING SINK. SALVAGE GARBAGE

29 REMOVE AND LEGALLY DISCARD EXISTING SUPPLY DIFFUSERS AND RETURN/EXHAUST GRILLES AND REPLACE WITH NEW ONES. PREPARE

(2) REMOVE AND LEGALLY DISCARD EXISTING SUPPLY DIFFUSERS AND RETURN/EXHAUST GRILLES AND REPLACE WITH NEW ONES. PREPARE

EXISTING BRANCHES TO ACCEPT NEW DIFFUSERS/GRILLES.

EXISTING BRANCHES TO ACCEPT NEW DIFFUSERS/GRILLES.

THIS WORK IS PART OF THE ALTERNATE # 3.

(3) REMOVE AND LEGALLY DISCARD EXISTING BOILER, PUMP, RELATED

CONTROLS AND PIPING TO MAIN. PREPARE DUCT TO ACCEPT NEW ELECTRIC

UNIT HEATER, CONTROLS AND PIPING TO MAIN. PREPARE WALL TO ACCEPT

ACCESSORIES, GAS PIPING TO MAIN, CONTROLS, FLUE, WATER MAKE-UP TO

(9) REMOVE AND LEGALLY DISCARD EXISTING LOUVER. REFER TO

ARCHITECTURAL DWG FOR CAPPING WALL.

NEW ELECTRIC CABINET UNIT HEATER.

RADIATION, CONTROLS AND PIPING TO MAIN.

EXISTING DUCT TO ACCEPT NEW CONNECTION.

AND SANITARY TO REMAIN AND TO PROTECT.

WORK.

MAIN AND CAP.

MAIN AND CAP.

ELECTRIC DUCT HEATER.

AT SHUT-OFF VALVE.

NEW SINK.

GENERAL NOTES:

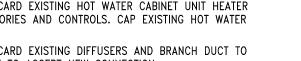
WALL TO BE REMOVE.

LINE TO ACCEPT NEW HOSE BIBB.

CONTROLS.

COIL

- (5) REMOVE AND LEGALLY DISCARD EXISTING DIFFUSERS AND BRANCH DUCT TO



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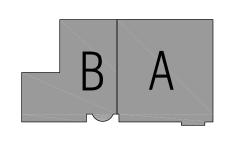
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#### OWNER

#### Roseville - Eastpointe Recreation Authority

Recreation Center

18185 Sycamore

PROJECT NO.

13-162

**ISSUES / REVISIONS** 

DRAWN BY

CHECKED BY

APPROVED BY

SHEET NAME

SHEET NO.

MD1-01

DEMOLITION

FLOOR PLAN -

MECHANICAL

MS

MS

BIDDING - CONSTRUCTION

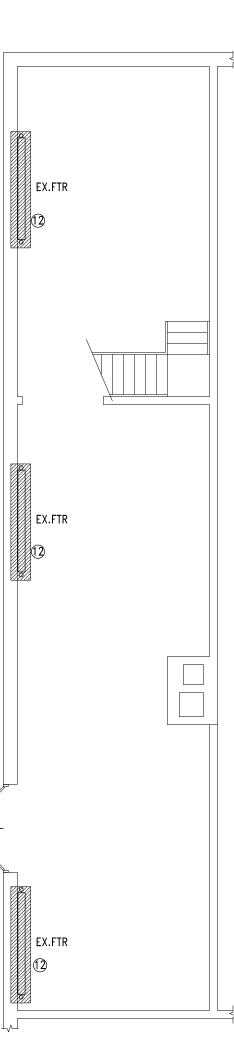
5-28-2014

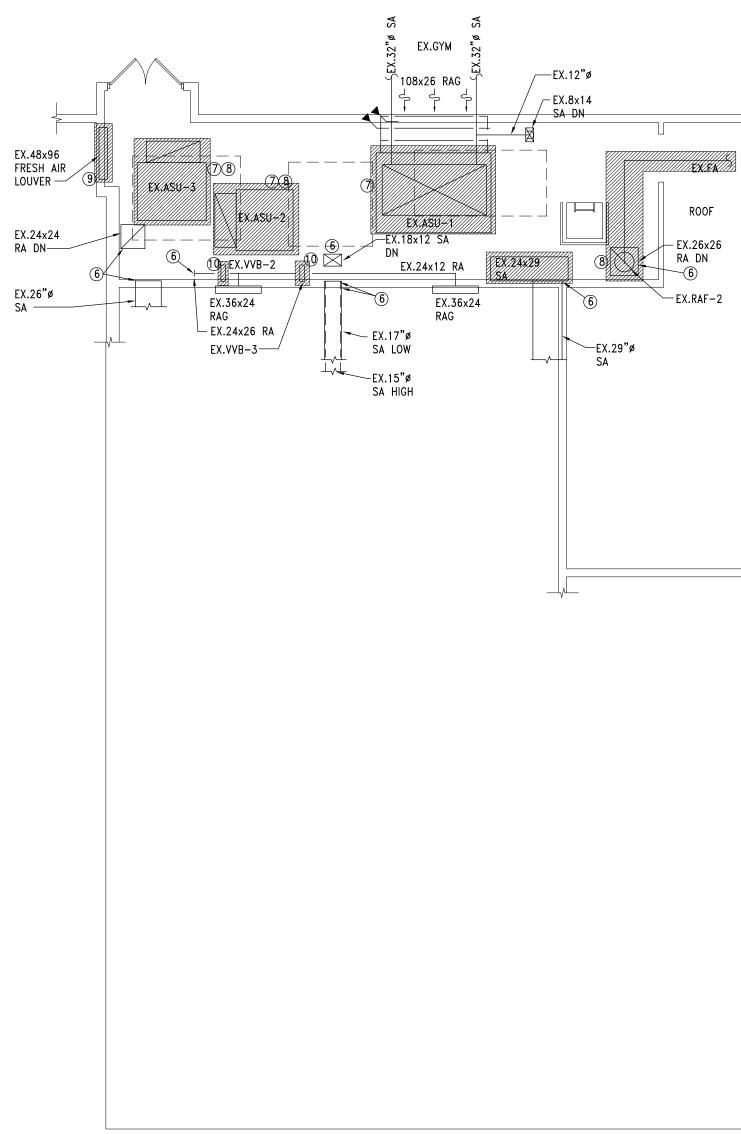
Roseville, MI 48066

Addition and Renovation

PROJECT NAME

1/8'' = 1'-0''





MEZZANINE DEMOLITION FLOOR PLAN-MECHANICAL

MECHANICAL/PENTHOUSE DEMOLITION FLOOR PLAN-MECHANICAL 1/8" = 1'-0"

9 EX.48x62 FRESH-AIR LOUVER

DISCONNECT EXISTING GAS LINE AND PREPARE LINE FOR RECONNECTION. PREPARE EXISTING ROOF CURB TO ACCOMMODATE NEW UNIT. PREPARE EXISTING DUCTS WORK TO RECONNECT TO NEW ROOF TOP UNIT. (2) REMOVE AND LEGALLY DISCARD EXISTING CONDENSER AND ALL RELATED ACCESSORIES, REFRIGERANT LINES AND CONTROLS. REUSE EXISTING EQUIPMENT RAILS/PAD FOR THE NEW ROOF TOP UNIT.

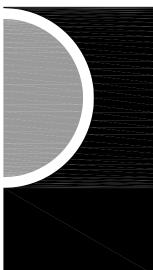
1 REMOVE AND LEGALLY DISCARD EXISTING GAS FIRED ROOF TOP UNIT AND

DEMOLITION NOTES:

RELATED CONTROLS.

- (3) REMOVE AND LEGALLY DISCARD EXISTING CONDENSER AND ALL RELATED ACCESSORIES, REFRIGERANT LINES AND CONTROLS.
- (4) REMOVE AND LEGALLY DISCARD EXISTING HOT WATER CABINET UNIT HEATER AND ALL RELATED ACCESSORIES AND CONTROLS. CAP EXISTING HOT WATER HEATING PIPING AT MAIN.
- (5) REMOVE AND LEGALLY DISCARD EXISTING DIFFUSERS AND BRANCH DUCT TO MAIN. PREPARE MAIN DUCT TO ACCEPT NEW CONNECTION. (6) PREPARE EXISTING DUCT TO ACCEPT A NEW CONNECT. REFERT TO NEW
- WORK. (7) REMOVE AND LEGALLY DISCARD EXISTING ASU WITH ALL ASSOCIATED
- DUCTWORK, CONTROLS, CONCRETE PAD, HEATING HOT WATER PIPING TO MAIN AND CAP. (8) REMOVE AND LEGALLY DISCARD EXISTING RELATED RETURN FAN AND
- CONTROLS. (9) REMOVE AND LEGALLY DISCARD EXISTING LOUVER. REFER TO
- ARCHITECTURAL DWG FOR CAPPING WALL. (1) REMOVE AND LEGALLY DISCARD EXISTING VVB, HEATING HOT WATER COIL, CONTROLS AND PIPING TO MAIN. PREPARE DUCT TO ACCEPT NEW ELECTRIC COIL.
- (1) REMOVE AND LEGALLY DISCARD EXISTING HEATING HOT WATER CABINET UNIT HEATER, CONTROLS AND PIPING TO MAIN. PREPARE WALL TO ACCEPT NEW ELECTRIC CABINET UNIT HEATER.
- 12 REMOVE AND LEGALLY DISCARD EXISTING HEATING HOT WATER FINE TUBE RADIATION, CONTROLS AND PIPING TO MAIN. (13) REMOVE AND LEGALLY DISCARD EXISTING BOILER, PUMP, RELATED
- ACCESSORIES, GAS PIPING TO MAIN, CONTROLS, FLUE, WATER MAKE-UP TO MAIN AND CAP.
- 14 REMOVE AND LEGALLY DISCARD EXISTING VVB, CONTROLS, HEATING HOT WATER COIL AND PIPING TO MAIN. PREPARE DUCT TO ACCEPT NEW ELECTRIC DUCT HEATER.
- (5) REMOVE AND LEGALLY DISCARD EXISTING DUCT AS INDICATED. PREPARE EXISTING DUCT TO ACCEPT NEW CONNECTION.

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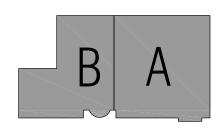
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PROJECT NAME

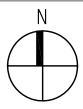
#### Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

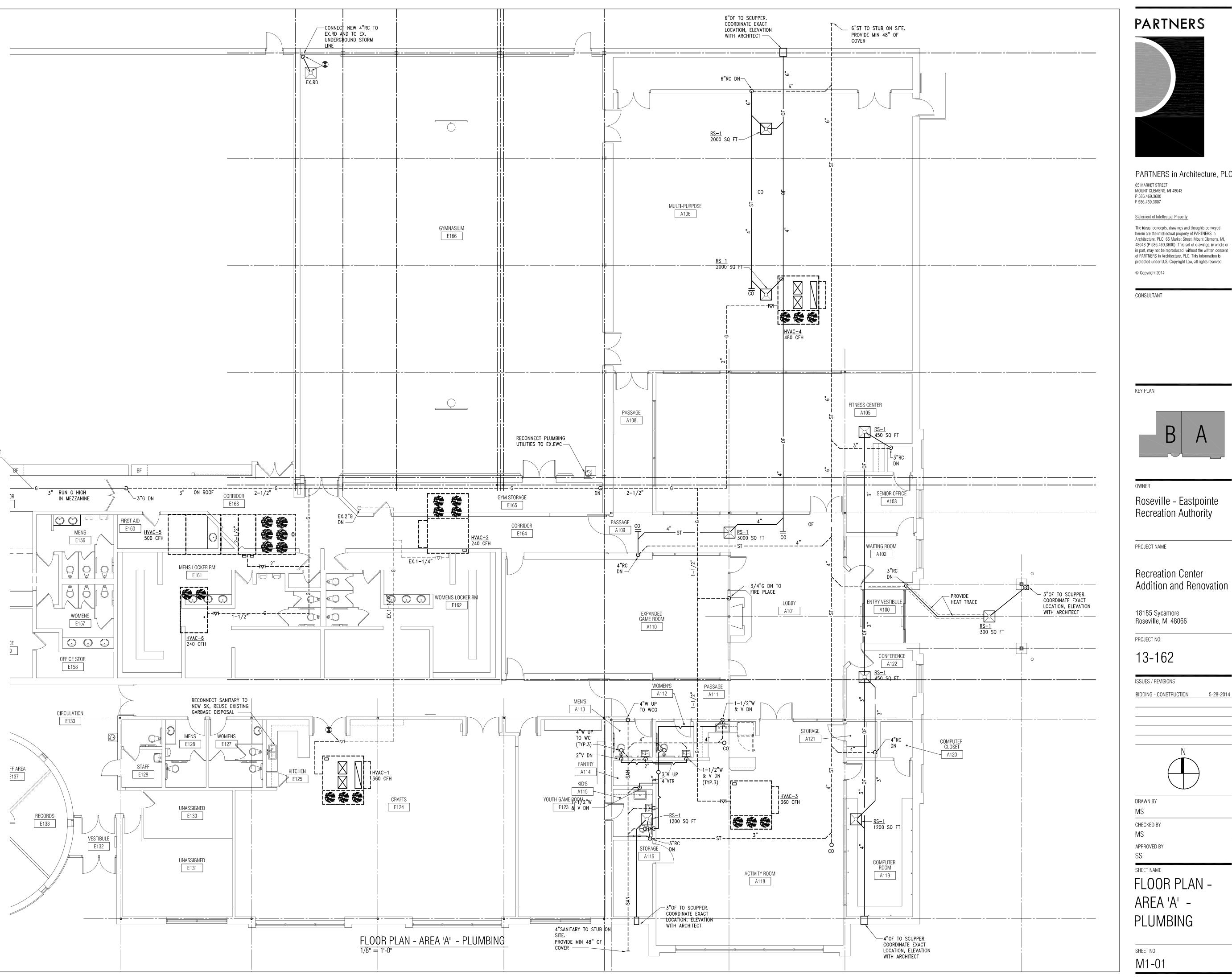
13-162

ISSUES / REVISIONS BIDDING - CONSTRUCTION 5-28-2014



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sheet name MEZZ. DEMOLITION FLOOR PLAN -MECHANICAL SHEET NO. MD1-02



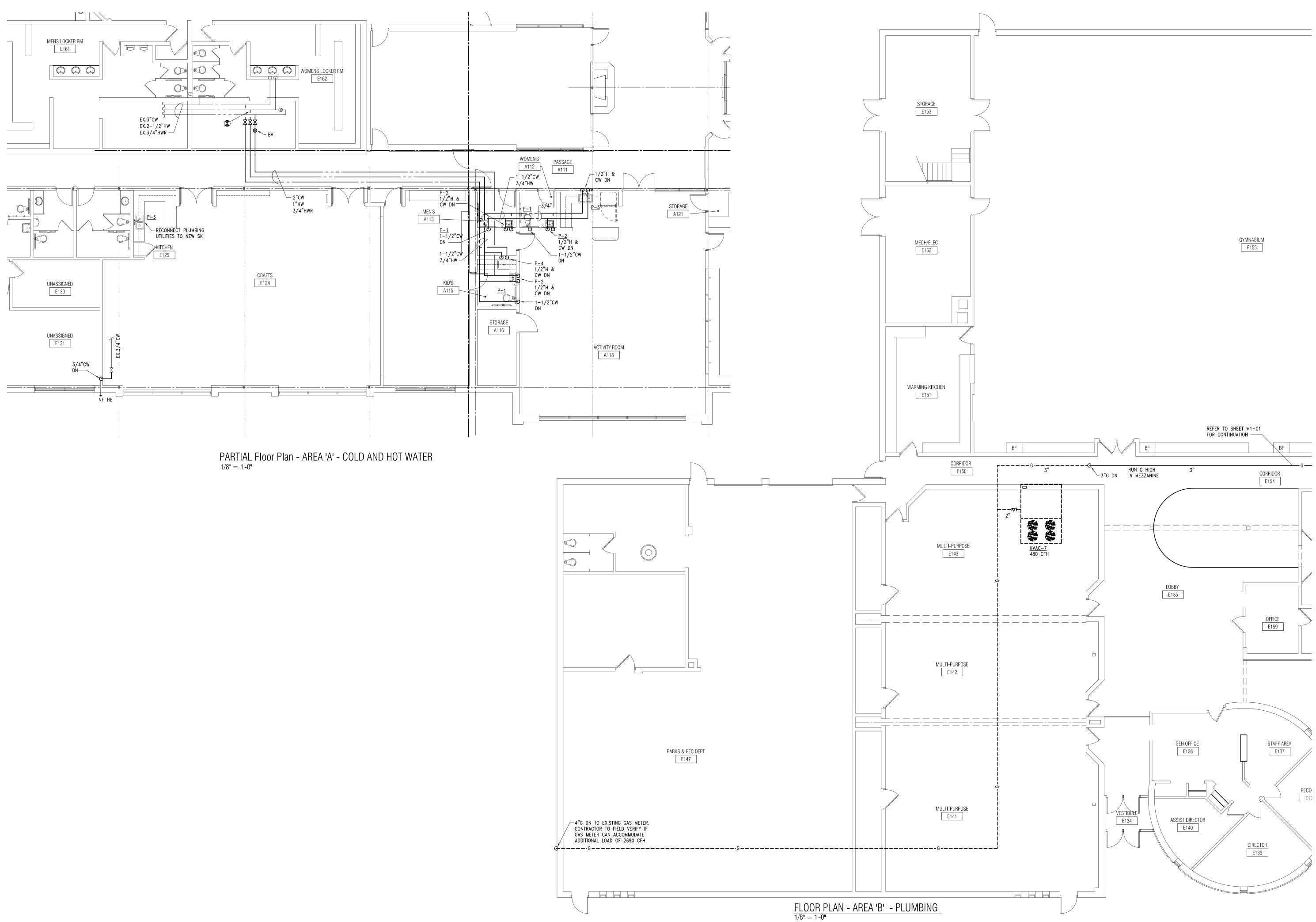
REFER TO SHEET M1-02 FOR CONTINUATION -

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5-28-2014

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HEET NAME LOOR PLAN – AREA 'A' – PLUMBING



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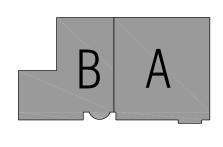
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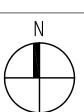
#### Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

#### PROJECT NO. 13-162

**ISSUES / REVISIONS BIDDING - CONSTRUCTION** 

5-28-2014

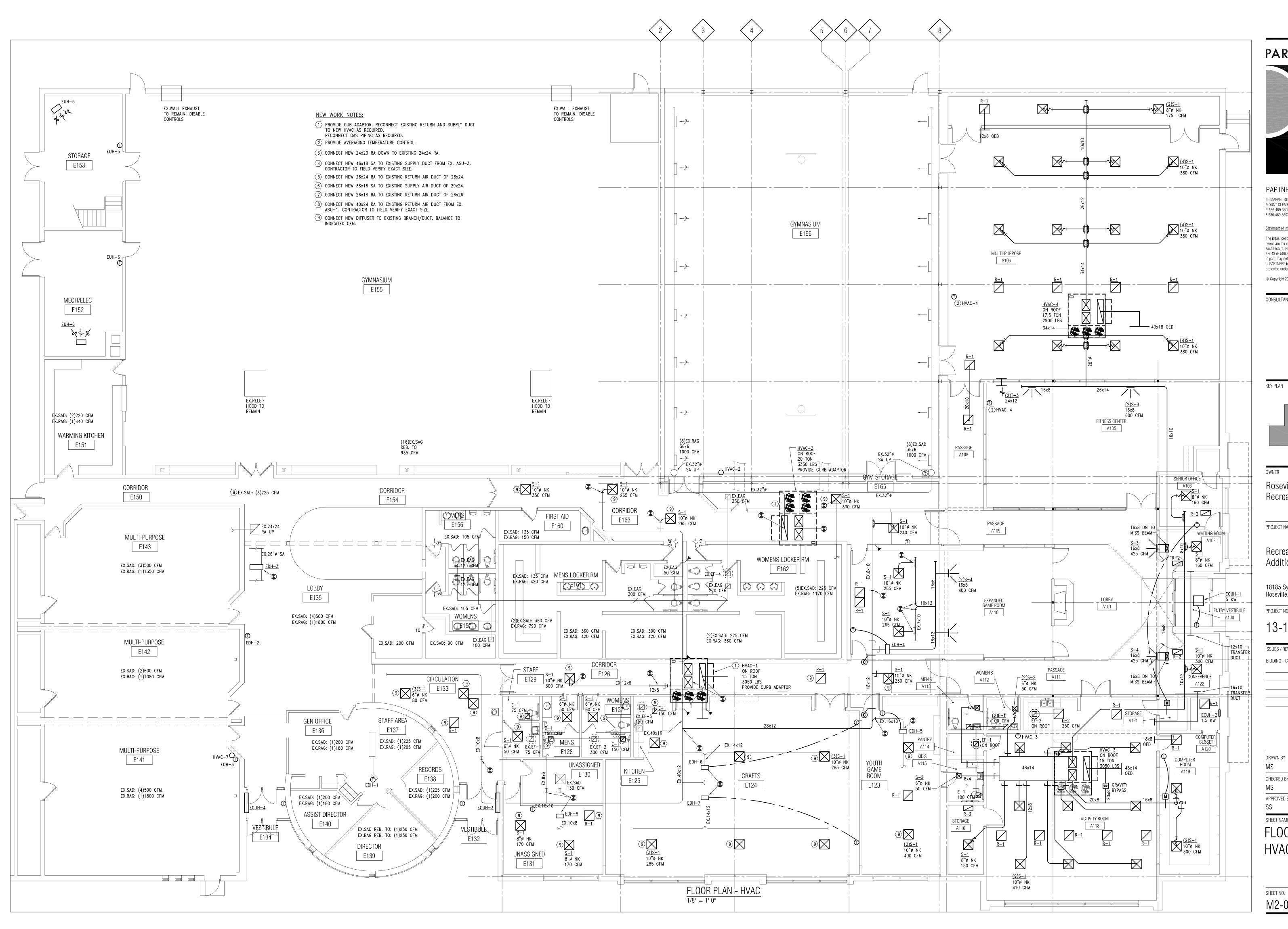


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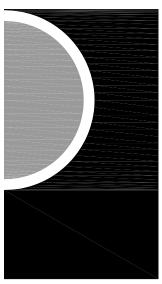
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SHEET NAME FLOOR PLAN -AREA 'B' -PLUMBING

SHEET NO. M1-02



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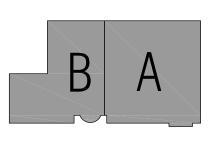
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PROJECT NAME

#### **Recreation Center** Addition and Renovation

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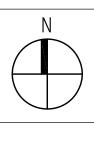
PROJECT NO.

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ISSUES / REVISIONS

BIDDING - CONSTRUCTION

5-28-2014

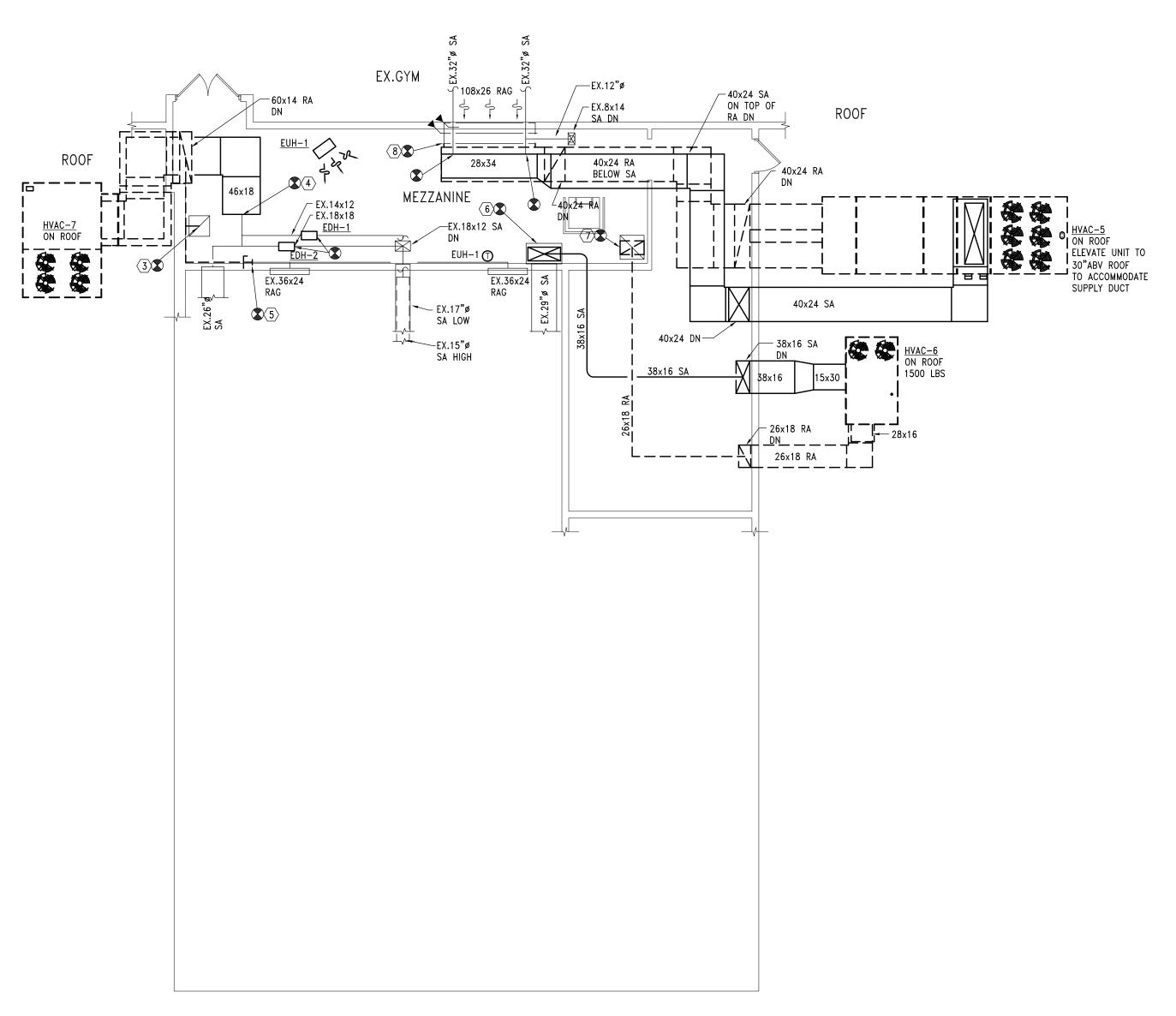


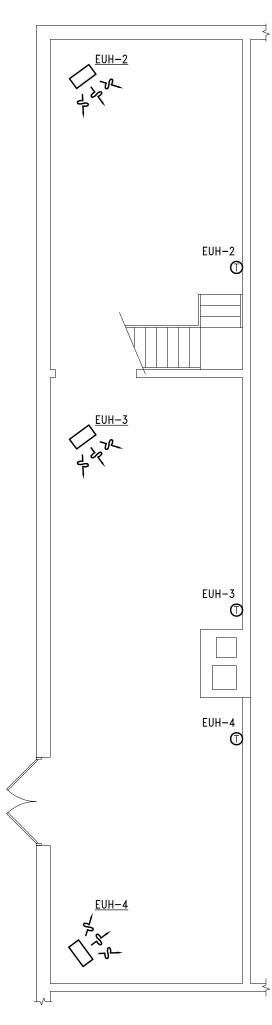
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SS SHEET NAME FLOOR PLAN -

HVAC

SHEET NO. M2-01





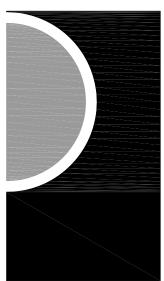
MEZZANINE FLOOR PLAN-HVAC 1/8" = 1'-0"

MECHANICAL/PENTHOUSE FLOOR PLAN-HVAC 1/8" = 1'-0"

#### NEW WORK NOTES:

- $\langle 1 \rangle$  provide CUB adaptor. Reconnect existing return and supply duct TO NEW HVAC AS REQUIRED. RECONNECT GAS PIPING AS REQUIRED.
- $\langle 2 \rangle$  provide averaging temperature control.
- $\overline{3}$  connect new 24x20 ra down to existing 24x24 ra.
- $\langle \overline{4} \rangle$  connect new 46x18 sa to existing supply duct from ex. Asu-3. CONTRACTOR TO FIELD VERIFY EXACT SIZE.
- $\langle 5 \rangle$  connect new 26x24 ra to existing return air duct of 26x24.
- $\dot{\ }\overline{\ }\overline{\ }$  Connect new 38x16 SA to existing supply air duct of 29x24.
- $\langle 7 \rangle$  CONNECT NEW 26x18 RA TO EXISTING RETURN AIR DUCT OF 26x26.
- $\fbox{8}$  Connect new 40x24 ra to existing return air duct from ex. ASU-1. Contractor to field verify exact size.
- $\langle 9 \rangle$  connect new diffuser to existing branch/duct. Balance to INDICATED CFM.

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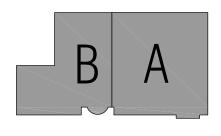
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PROJECT NAME

#### **Recreation Center** Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

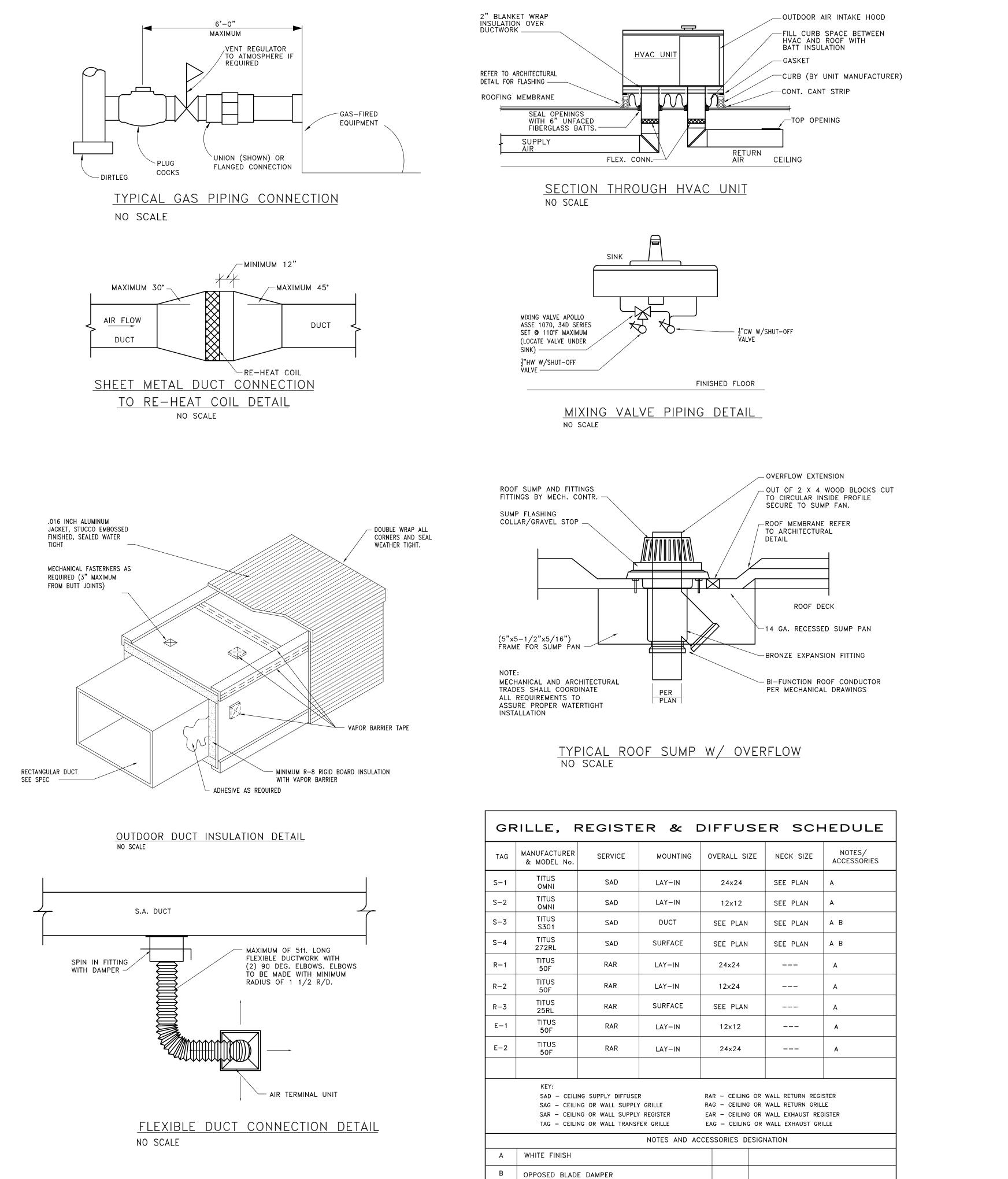
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SHEET NAME MEZZ. FLOOR PLAN - HVAC

SHEET NO. M2-02



STE	ER & [	DIFFUSE	R SCH	IEDULE							
CE	MOUNTING	OVERALL SIZE	NECK SIZE	NOTES/ ACCESSORIES							
)	LAY-IN	24x24	SEE PLAN	A							
)	LAY-IN	12×12	SEE PLAN	А							
)	DUCT	SEE PLAN	SEE PLAN	АВ							
)	SURFACE	SEE PLAN	SEE PLAN	A B							
2	LAY-IN	24x24		А							
2	LAY-IN	12x24		A							
2	SURFACE	SEE PLAN		A							
र	LAY-IN	12x12		A							
र	LAY-IN	24x24		А							
SUPPLY SUPPLY	IFFUSER RAR – CEILING OR WALL RETURN REGISTER SUPPLY GRILLE RAG – CEILING OR WALL RETURN GRILLE SUPPLY REGISTER EAR – CEILING OR WALL EXHAUST REGISTER TRANSFER GRILLE EAG – CEILING OR WALL EXHAUST GRILLE NOTES AND ACCESSORIES DESIGNATION										

						н∨и	AC	UN	IT S	зсн	ED	UL	E						
TAG	MANUFACTURER	ELEC	TRICAL DA	TA		ATING RAL GAS	COOLING DATA © 95°F OAT				SUPPLY FAN DATA			EFFICIENCY		REFRIGERANT	WEIGHT	NOTES /	
IAU	& MODEL No.	VOLTS	UNIT MCA	моср	INPUT CFH	OUTPUT MBH	TOTAL MBH	SENSIBLE MBH	MIN. O.A. CFM	MAX. O.A CFM	. EAT db/wb	CFM	ESP "WC	HP	EER SEER	AFLUE %		POUND	ACCESSORIES
HVAC-1	LENNOX KGA-180	208/3	85	100	360	288	184.1	141.8	600	1500	80/67	6000	1.2	5	10.8 	80	410A	2,850	A B C D E F G H I
HVAC-2	LENNOX KGA-240	208/3	112	125	480	384	239.8	187.0	800	2000	80/67	8000	1.2	7.5	10.8 	80	410A	3,300	A B C D E F G H I
HVAC-3	KGA-180						1.2	5	10.8 	80	410A	2,850	A B C D E F G H I						
HVAC-4	LENNOX KGA-210	208/3	93	110	480	384	211.8	167.32	700	1750	80/67	7000	1.2	5	10.8 	80	410A	2,850	A B C D E F G H I
HVAC-5	LENNOX LGH-480	208/3	208	250	500	400	501.2	350.8	500	1500	80/67	15,000	1.5	15	10.8 	80	410A	8,575	A B C D E F G H J K
HVAC-6	LENNOX KGA-150	208/3	67	80	240	192	147.6	113.6		1300	80/67	4400	1.4	5	10.8 	80	410A	1,700	A B C D E F G I J
HVAC-7	LENNOX KGA-240	208/3	112	125	480	384	239.8	187.0	800	2000	80/67	8500	1.4	7.5	11.0 	80	410A	3,300	A B C D E F G H I J
							NOTES	AND ACCE	ESSORIES D	ESIGNATION	l								
A	16"H ROOF CURB				F	DISCONN	ect switc	Н					к	4	STAGE H	IEATING			
В	ECONOMIZER				G	POWER 6	EXHAUST												
C THROWAWAY FILTER H							ISOR (INTE	ERLOCK WIT	H ECONIMIZ	ZER)									
D SMOKE DETECTOR I							2 STAGE HEATING AND COOLING												
E	PROGRAMMABLE THERMC		J	SIDE DISCHARGE RETURN AND SUPPLY															

	ELECTRIC DUCT HEATER SCHEDULE												
TAG	MANUFACTURER	UNIT	MOUNTING	CFM	TOTAL	STAGES	ĸw/	VOLT	COIL	SIZE	NOTES/ACCESSORIES		
	& MODEL No.	SERVED			KW		STAGE	VOL1	L	W			
EDH-1	BRASCH EXPRESS OPEN COIL	OFFICE AREA	DUCT IN TYPE	1050	5	1	5	208/3	14	12	АВС		
EDH-2	BRASCH EXPRESS OPEN COIL	LOUNGE, OFFICE, CORRIDOR	DUCT IN TYPE	2175	10	2	5	208/3	18	18	АВС		
EDH-3	BRASCH EXPRESS OPEN COIL	MULT-PURPOSE RMS	DUCT IN TYPE	4700	20	4	5	208/3	28"ø		АВС		
EDH-4	BRASCH EXPRESS OPEN COIL	GAME RM	DUCT IN TYPE	1330	8.0	2	4	208/3	18	12	АВС		
EDH-5	BRASCH EXPRESS OPEN COIL	COMP. RM	DUCT IN TYPE	800	5	1	5	208/3	16	10	АВС		
EDH-6	BRASCH EXPRESS OPEN COIL	MULT-PURPOSE RM	DUCT IN TYPE	855	5	1	5	208/3	14	12	АВС		
EDH-7	BRASCH EXPRESS OPEN COIL	MULT-PURPOSE RM	DUCT IN TYPE	855	5	1	5	208/3	14	12	АВС		
EDH-8	BRASCH EXPRESS OPEN COIL	OFFICE RM	DUCT IN TYPE	340	4	1	4	208/1	10	8	АВС		
	NOTES AND ACCESSORIES DESIGNATION												

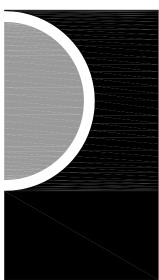
A AIRFLOW SWITCH

B NO FUSABLE DISCONNECT SWITCH C DOOR INTERLOCK RELAY

		ELECTR		ABINE	Τι	INI.	Т	HE		FER S	SCH	IEDULE
TAG		MANUFACTURER & MODEL No.	AREA	MOUNTING	CFM	мвн	1	ELECT	TRICA	L DATA	N0 OF	NOTES/ACCESSORIES
		a MODEL NO.	SERVED					KW		VOLT	FANS	
ECUH	-1	BERKO FFCH558 SERIES	VEST.	CEILING	300	17.0		5		208/3	1	вС
ECUH-	CUH-2 FRC1512		STORAGE	RECESS WALL	100	5.1		1.5		120/1	1	A B
ECUH- ECUH-			5 2		208/3	1	вс					
EUH-		BERKO HUHAA720	PENTHOUSE MECH RM	SUSPENDED	650	25.6		7.5		208/3	1	вс
EUH- THRI EUH-	·2 J ·6	BERKO HUHAA320	STORAGE/ MEZZANINE	SUSPENDED	350	10.3		3		208/1	1	ВС
			N	DTES AND ACC	ESSORIE	S DESI	GNAT	ION				
А	INT	ERGRAL THERMOSTA	ТВ	DISCONNE	CT SWIT	СН			С	REMOTE T	HERMOS	ТАТ
FAN SCHEDULE												
_										-		
	TAC	MANUFACTURE	SERVICE	LOCATION				WHEEL		LECTRICAL	WEIGHT	

	FAN SCHEDULE													
TAG	MANUFACTURER	SERVICE		СГМ	ESP	ESP FAN	WHEEL		TRICAL	WEIGHT	NOTES/			
TAG	& MODEL NO.	SERVICE	LOCATION	CEM	"WC	KEY	TYPE	VOLTS /ø	HP	POUND	ACCESSORIES			
EF-1	LOREN COOK 70ACEB	TOILETS	ROOF	OF 300 .5 RMC BI 120/1 .25 40 B E					BEIJ					
EF-2	LOREN COOK 70ACEB	KITCHENETTE	ROOF	250	.5	RMC	BI	120/1	.167	40	BEIJ			
	RMC – ROOF MOUI CLG – CEILING MO ILC – INLINE CEN SW – SIDE WALL	UNT	FUGAL							KEY: ARD CURVE /ARD INCLII				
			NOTES A	ND ACC	CESSOR	IES DE	SIGNATI	ON						
A	14"H ROOF CURB			D	BIRDSCR	EEN								
В	GRAVITY BACKDRAFT DA	MPER		E	INTERLOCK WITH BUILDING TIMER									
с	FACTORY MOUNTED & V	VIRED DISCON	VECT SWITCH	F	INTERLO	оск with	LIGHT SV	WITCH						

### PARTNERS



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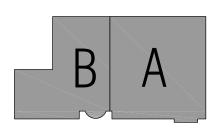
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KEY PLAN



OWNER

#### Roseville - Eastpointe Recreation Authority

PROJECT NAME

#### Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

**ISSUES / REVISIONS** 

BIDDING - CONSTRUCTION 5-28-2014

DRAWN BY MS CHECKED BY MS

APPROVED BY SS

SHEET NAME MECHANICAL DETAILS AND SCHEDULES

SHEET NO. M3-01

#### LIGHTING FIXTURE SCHEDULE:

- "A" LED RECESSED HIGH LUMEN TROFFER, 4'L X 2'W X 3.25"D SHALLOW HOUSING, GRID CEILING MOUNTED, HIGH ANGLE LIGHTING DISTRIBUTION, UNIVERSAL VOLTAGE ELECTRONIC DRIVER RATED FOR 80WATTS DELIVERING MINIMUM OF 7443 LUMENS AT 3500°K WITH 0-10V DIMMING CAPABILITY. METALUX #24EN-LD1-74-UNV-L835-CD-1 OR APPROVED EQUAL.
- "AEM" SAME AS "A" EXCEPT WITH BUILT-IN EMERGENCY BALLAST TO PROVIDE EMERGENCY LIGHTING FOR 90 MINUTES DURING NORMAL POWER FAILURE.
- "B" FLUORESCENT RECESSED 2'X4' LIGHTING FIXTURE, 0.125" THICK PRISMATIC ACRYLIC LENS, (2)-UNIVERSAL VOLTAGE PROGRAMMED RAPID START ELECTRONIC BALLASTS WITH (3)-F32W T8 LAMPS. (WIRE FOR DUAL LEVEL SWITCHING WHERE INDICATED ON PLAN). LITHONIA #2SP8-G-332-A12125-MVOLT-2/GEB10RS OR APPROVED EQUAL.
- "B1" SAME AS "B" EXCEPT WITH (2)-F32W T8 LAMPS.
- "BEM" / SAME AS "B'/"B1" RESPECTIVELY EXCEPT PROVIDED WITH BUILT-IN EMERGENCY "B1EM" BALLAST TO PROVIDE MINIMUM 1350 LUMENS FROM TWO LAMPS FOR 90 MINUTES DURING NORMAL POWER FAILURE.
- "C" FLUORESCENT 2'X4' LAY-IN LIGHT FIXTURE, DIRECT/INDIRECT WITH PERFORATED CENTER BASKET AND OVERLAY LENS, UNIVERSAL VOLTAGE PROGRAMMED RAPID START ELECTRONIC BALLAST WITH (3)-F32T8 LAMPS. LITHONIA AVANTE #2AV-G-332-MDR-MVOLT-GEB10RS OR APPROVED EQUAL.
- COMPACT FLUORESCENT RECESSED ROUND DOWNLIGHT. 6" APERTURE AND 5.5" DEEP "D" HOUSING, CLEAR ALZAK REFLECTOR AND FLAT FRESNEL LENS, UNIVERSAL VOLTAGE ELECTRONIC BALLAST AND 42W HORIZONTAL TRT LAMP. VANTAGE #A6HF1-42W-E-1-6616-SCL-WL OR APPROVED EQUAL.
- "F" LED RECESSED DOWNLIGHT, 6" APERTURE, CLEAR SPECULAR LOW IRIDESCENT ALZAK FINISH REFLECTOR, UNIVERSAL VOLTAGE DRIVER, 0-10V DIMMING, 24W WITH MINIMUM 1200 LUMEN PACKAGE WITH 3500°K COLOR, WET LOCATION LISTED. MAXILUME #HH6-LED-1200LM-FL-35K-HH6-6501-CL-WH OR APPROVED EQUAL.
- "E1" SAME AS "E" EXCEPT 8" APERTURE AND WITH 3000 LUMENS. MAXILUME #HH8-LED-3000LM-FL-35K-HH8-8501-CL-WH OR APPROVED EQUAL.
- "F" COMPACT FLUORESCENT DECORATIVE PENDANT, 42" DOUBLE DRUM, COLOR AS SELECTED BY ARCHITECT FROM STANDARD LIST, 120V ELECTRONIC BALLAST AND (2)-32W TRT LAMPS. LUMETTA #P5542-CFL 2/32-120V.
- "G" COMPACT FLUORESCENT PENDANT FIXTURE MOUNTED ABOVE CEILING GRID, 12" DIAMETER AND 15" HIGH, NATURAL ANODIZED FINISH, CLEAR PRISMATIC REFRACTOR WITH METALLIZED INTERIOR, 144" CABLE SUSPENSION TO BE CUT IN FIELD AS DIRECTED BY ARCHITECT, 120V ELECTRONIC BALLAST AND (2)-42W TRT LAMPS. FOCAL POINT GROOVE G #FRG-G-M-242TT-S-120-C144-NA OR APPROVED EQUAL.
- "Н" H.I.D WALL MOUNTED HALF CYLINDER LUMINAIRE, WET LOCATION LISTED, ALUMINUM HOUSING, ALUMINUM DOOR FRAME WITH FLAT CLEAR POLYCARBONATE LENS, FULLY GASKETED, SHARP CUT-OFF WITH MEDIUM THROW DISTRIBUTION, 120V HPF BALLAST, 70W METAL HALIDE LAMP, BUILT-IN PHOTOCELL, FINISH COLOR AS SELECTED BY ARCHITECT, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
- LITHONIA #WSR-70M-MD-120-PE OR APPROVED EQUAL.
- "J" FLUORESCENT UNDERCABINET LIGHT FIXTURE, NOMINAL 2' LONG, STEEL HOUSING WITH WHITE ENAMEL BAKED FINISH, CLEAR PRISMATIC ACRYLIC LENS, SOLID TOP, (2)-17W-T8-4100°K/80CRI LAMP, 120V ELECTRONIC BALLAST WITH BUILT-IN ROCKER SWITCH. DURAY #H3217-217W-SSB/T8.
- "K" HID DECORATIVE OUTDOOR WALL SCONCE 14" X 14" X 4 75" RECESSED MOUNTED HOUSING, LUMINOUS ACRYLIC FACE, 120V HPF BALLAST AND 70W METAL HALIDE LAMP, FINISH COLOR AS SELECTED BY ARCHITECT, COORDINATE MOUNTING WITH ARCHITECT. VISA LIGHTING #OW1730-1PH70.
- " [" SINGLE CIRCUIT LINE VOLTAGE TRACK LIGHT, PENDANT MOUNTED WITH 48" CABLE, 4' LONG, SILVER FINISH, 120V WITH LED LAMP HEADS, 24W WITH NARROW FLOOD DISTRIBUTION. PROVIDE ALL ACCESSORIES FOR COMPLETE INSTALLATION. JUNO TRACK MASTER #T4SL/ T262L-35-K-N-SL OR APPROVED EQUAL.
- "M" COMPACT FLUORESCENT DECORATIVE PENDANT SELECTED BY ARCHITECT. ALLOW \$1000 PER FIXTURE.
- "X" LED EXIT SIGN, SINGLE FACE, POLYCARBONATE HOUSING CONSTRUCTION, UNIVERSAL DIRECTIONAL ARROW KNOCKOUTS, FULLY OVERLAPPING LIGHT SEAL 6" HIGH RED LETTERS 25 YEAR LIFE LED LAMPS, 120 VOLT INPUT, 6 VOLT SEALED MAINTENANCE-FREE BATTERY 90 MINUTE DISCHARGE, 24 HOUR RECHARGE. LIGHTALARMS #QLXN500-R-N OR APPROVED EQUAL.
- "X1" SAME AS "X" EXCEPT WITH (2)-SIDE MOUNTED HEADS AND 12W EXTRA REMOTE CAPACITY. LIGHTALARMS #UQLXN500-R-2LED-R OR APPROVED EQUAL.
- "RE" WEATHERPROOF REMOTE EMERGENCY HEAD ASSEMBLED AS A SMALL WALL SCONCE SHAPE, NEMA 3R LISTED, DIE CAST ALUMINUM HOUSING, FULLY GASKETED COVER, POLYCARBONATE DIFFUSER WITH (2)-4W-6V LED LIGHTS, BLACK FINISH. LIGHTALARMS #SAF-2-BK-6 OR APPROVED EQUAL.
- "EBL" EMERGENCY WALL MOUNTED LIGHTING UNIT, COMPACT DESIGN 9"X4"X3", 6V BATTERY WITH (2)-4W LED LAMPS, WHITE FINISH. LIGHTALÁRMS #LCA-2LEDR OR APPROVED EQUAL.
- "EBL1" EMERGENCY WALL MOUNTED HIGH POWER LIGHTING UNIT, 54W-6V LEAD CALCIUM BATTERY, (2)-20W SEALED BEAM HALOGEN LAMP SIDE MOUNTED LAMP HEADS AND ONE 12W CENTER MOUNTED LAMP HEAD, WHITE FINISH. PROVIDE WIRE GUARD FOR INSTALLATION IN GYMNASIUMS. ENCORE #6EM54-3HW OR APPROVED EQUAL.
- "EBL2" EMERGENCY WALL MOUNTED HIGH POWER LIGHTING UNIT, THERMOPLASTIC HOUSING 54W-6V LEAD CALCIUM BATTERY, (2)-20W SEALED BEAM HALOGEN LAMPS, WHITE FINISH. LITHONIA #ELM654 OR APPROVED EQUAL.

PAI		TAGE:	<b>DP-NA</b> 208Y/120V, 3 PHASE, 4 WI 400 A MLO	MOUNTING: AS IRE + G AIC: AS FEEDER:	
	LOCA	TION:	STORAGE A107	TVSS EQUIPPED: NO	C
Circ	Brea	aker		Load Information	
No	Pole	Trip	Location	Description	С
1	1	20	A106	RECP.	
3	1	20	A106	RECP.	-
5	1	20	A106	RECP.	
7	1	20	SPARE		_
9	1	20	OUTDOOR	SECURITY LIGHTING	_
11	1	20	SPARE		_
13	1	20	SPARE		
15	1	20	FITNESS A105	LIGHTING	
17	1	20	MULTI-PURPOSE A106	LIGHTING	
19	1	20	MULTI-PURPOSE A106	LIGHTING	
21	1	20	SPARE		
23	1	20	SPARE		
25	1	20	SPARE		_
27	1	20	SPARE		
29	1	20	SPARE		
31	1		SPACE		
33	1		SPACE		
35	1		SPACE		
37	3				
39			STORAGE	NEW LP-F	
41		175			
2	1	20	FITNESS A105	RECEPTACLES	
4	1	20	FITNESS A105	RECEPTACLES	
6	1	20	FITNESS A105	RECEPTACLES	
8	1	20	FITNESS A105	RECEPTACLES	
10	1	20	FITNESS A105	RECEPTACLES	
12	1	20	FITNESS A105	RECEPTACLES	
14	1	20	FITNESS A105	RECEPTACLES	
16	1	20	OLD MULTI-PURPOSE	RECEPTACLES	_
18	1	20	OLD MULTI-PURPOSE	RECEPTACLES	
20	1	20	MULTI-PURPOSE A106	CEILING PROJECTOR	
22	1	20	SPARE		
24	1	20	SPARE		
26	1	20	SPARE		
28	1	20	SPARE		
30	1	20	SPARE		
32	3				
34			OLD GYM	BLEACHERS (ALT. #2)	
36		20			
38	3				_
40			ROOF	NEW HVAC-4	
42		110			
			CONNEC	CTED KW: 93	_
			CONNECT	ED AMPS: 259 Phase	۷
			DEI	MAND KW: 82	
			DEMA	ND AMPS: 228	

PA	NELBO	DARD:	LP-G		MOUNTING: AS I
	VOL.	TAGE:	208Y/120V, 3 PHASE, 4	WIRE + G	AIC: AS S
	-		200 A MLO	-	FEEDER:
	LOCA	TION:	STORAGE	TVS	SS EQUIPPED: NO
Circ	Bre	aker		Load Information	
No	Pole	Trip	Location	Description	C
1	3			•	
3			MULTI-PURPOSE	EDH-7	
5		20			
7	2		OFFICE	EDH-8	
9		30			
11	1	20	OFFICE	RECEPTACLE	
13	3				
15			EXISTING VEST.	ECUH-3	
17	-	20			
19	3				
21		r	EXISTING VEST.	ECUH-4	
23	$\leq$	20	00405		
25	1	20	SPARE		
27	1	20	SPARE		
29	1	20	SPARE		
31	1	20	SPARE		
33 35	1	20	SPARE SPARE		
	3	20	SPARE		
37	3				
39 41		20	OLD GYM	BLEACHERS	
_	~	20			
2	3		MULTI-PURPOSE	EDH-6	
6		20	NULTFORFOGL	LDIFO	
8	3	20			
10	5		COMPUTER ROOM	EDH-5	
12		20		EBITO	
14	3				
16			GAME ROOM	EDH-4	
18		30			
20	3	7			
22	/	$\checkmark$	LOBBY	EDH-3	
24		70			
26	1	20	ROOF	<b>GFCI RECEPT</b> A	CLES
28	1	20	SPARE		
30	1	20	SPARE		
32	1		SPACE		
34	1		SPACE		
36	1		SPACE		
38					
40		L			
42					
				ECTED KW:	61
				CTED AMPS:	170 Phase W
				EMAND KW:	49
			DEI	MAND AMPS:	136

#### INDICATED SPECIFIED

	Cor	nnected Wa	atts
le	Phase A	Phase B	
	800	1 11000 2	
	000	1000	
		1000	800
			000
		600	
		940	
			960
	1360		
	16600		
		16600	
			16600
	400		
		400	
		400	600
	600		000
	600	100	
		400	
			400
	600		
		600	
			800
	800		
	1000		
	1000	1000	
		1000	4000
			1000
	9486		
		9486	
			9486
tts:	31,646	31,026	30,646
	· · ·		

#### S INDICATED SPECIFIED

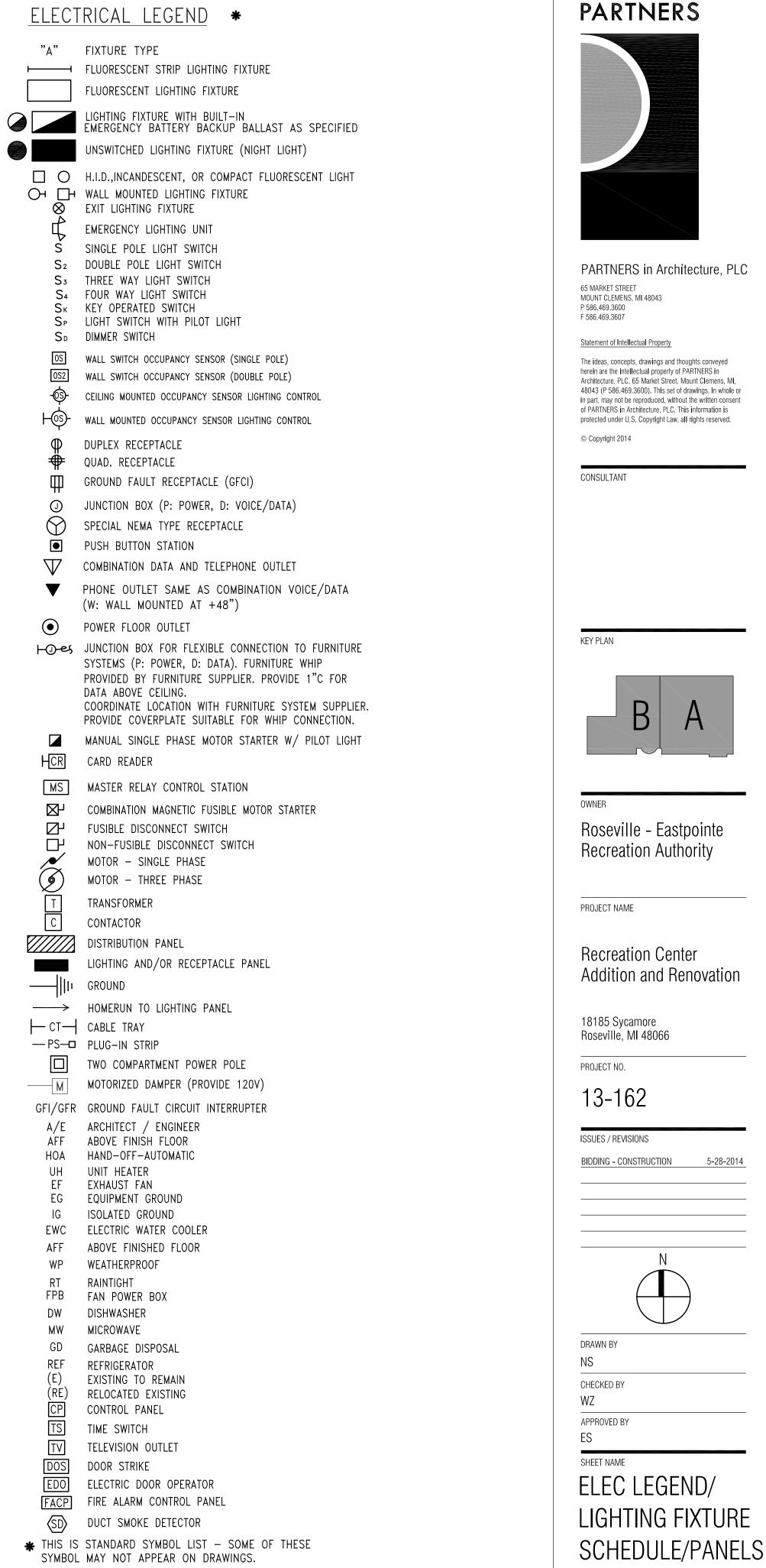
		nnected W				
de	Phase A	Phase B	Phase C			
	1666	1666				
		1000	1666			
	2000					
		2000				
			600			
	1666	1000				
		1666	1666			
	1666		1000			
		1666				
			1666			
	1000					
		1000				
	4000		1000			
	1666	1666				
		1000	1666			
	1666					
		1666				
			1666			
	2666	2666				
		2666	2666			
	6666		2000			
		6666				
			6666			
	800					
atts:	21,462	20,662	19,262			
	21,402	20,002	13,202			

PA		rage: Main:	<b>LP-F</b> 208Y/120V, 3 PHASE, 4 W 200 A MLO STORAGE A116						
Circ	Brea	aker		Load Information			Cor	nnected Wa	atts
No	Pole		Location	Description		Code	Phase A	Phase B	
1	1		A103, A102	RECP.		0000	1400	T HOUSE D	T Hubb O
3	1		LOBBY A101	RECP.			1400	600	
5	1		GAME ROOM A110	RECP.				000	800
7	1		A106, A122	RECP.			1200		000
9	1	20	A100, A122 A120	RECP.			1200	800	
9 11	1		A120	RECP.				000	1000
13	1		A119	RECP.			1000		1000
15	1		A119	RECP.			1000	1000	
17	1		A119 A119	RECP.				1000	800
17	1	_					1000		800
21	1		A118,A121	RECP.			1000	000	
			A118	RECP.				800	400
23	1		A116,A115	RECP.			000		400
25	1		A114,A113,A112	RECP.			800	000	
27	1		A117	REFR.				800	000
29	1	20	A117	RECP.					800
31	1		A117	RECP.			800		
33	1		A117	G.D.				800	
35	1	20	A117	RECP.					1000
37	1		SPACE						
39			SPACE						
41			SPACE						
2	1		LOBBY A101	LIGHTING VIA LRF	· /		1550		
4	1		OLD CORRIDORS	LIGHTING VIA LRF				1000	
6	1		OUTDOOR/CANOPY	LIGHTING VIA LRF	P-1 (R3)				1200
8	1	-	SPARE						
10	1		ACTIVITY A118	LIGHTING				1400	
12	1		TOILETS AND OFFICES	LIGHTING					1350
14	1	20	ROOF	GFR RECEPTAC	LES		400		
16	1		SPARE						
18	1	20	SPARE						
20	1	20	SPARE						
22	1	20	SPARE						
24	1	20	ROOF	EF-2					400
26	1	20	ROOF	EF-1			700		
28	1	20	STORAGE/COMPUTER	MOTORIZED DAM	/IPERS			250	
30	1	20	COMPUTER A120	ECUH-2					1500
32	3						1666		
34			VEST A100	ECUH-1				1666	
36		20							1666
38	3						8670		
40			ROOF	NEW HVAC-3				8670	
42		100							8670
			CONNECT	ED AMPS: 1 MAND KW:	57 57 50 38	Phase Watts:	19,186	17,786	19,586

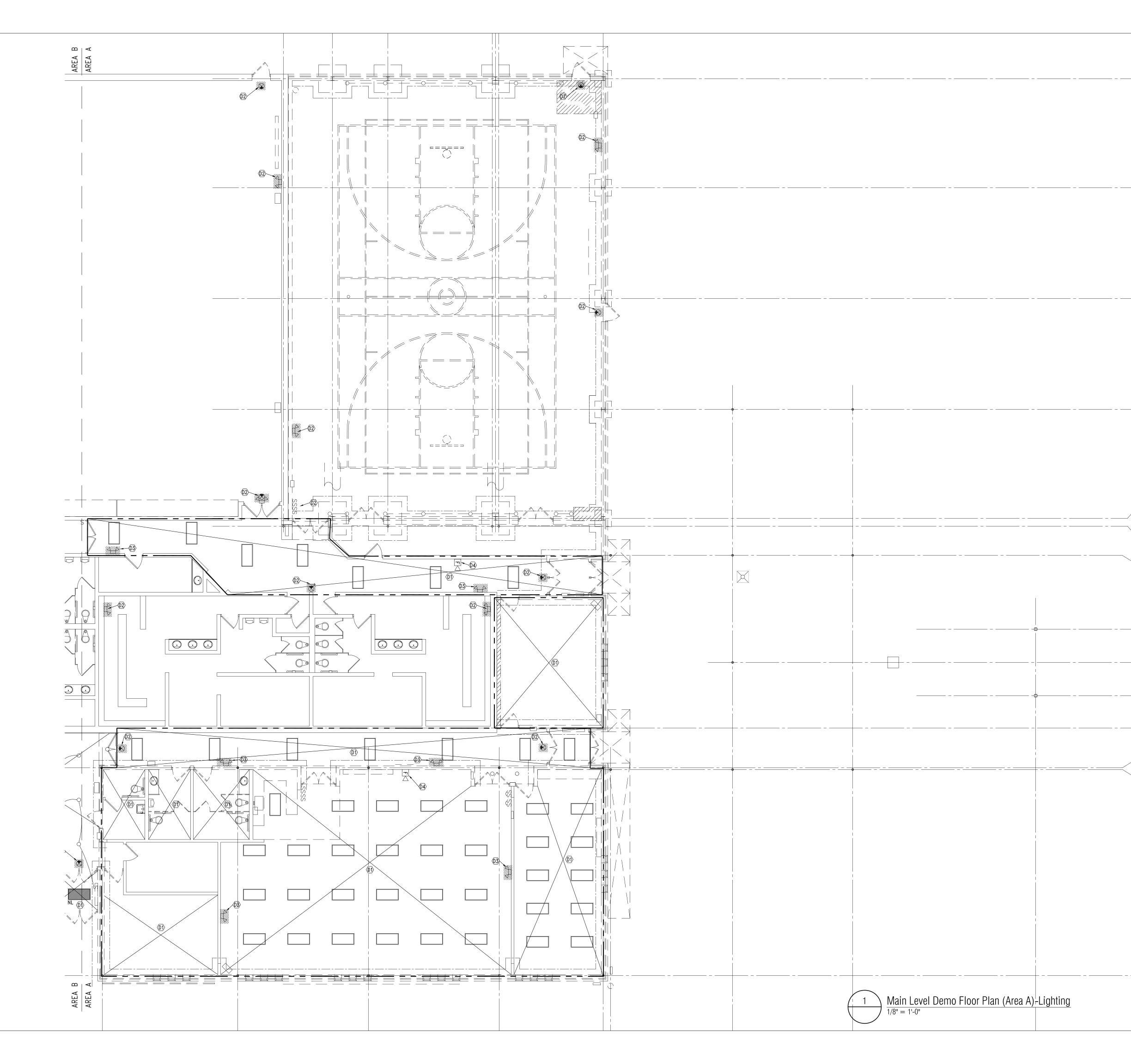
	VOL	TAGE:	208Y/ 800	<b>2 (NEW)</b> 120V, 3 PHA A MAIN SWI DOOR	,	RE + G						
Circ												
No	Sw	Pole	Fu	Location/De	scription						Conn	Dem
1	200	3	200	NEW LP-G							58.0	47.0
2	400	3	250	NEW HVAC	-5						63.6	50.9
3	400	3	400	NEW DP-NA	Ą						90.0	79.0
4	200	3	200	SPARE							0.0	0.0
5												
6												
7												
8												
	CONNECTED AMPS: 587.3 CONNECTED kVA: 211.6 Totals: 211 DEMAND AMPS: 491.0 DEMAND kVA: 176.9											176.9

ELECTRICAL DRAWING INDEX	
SHEET	DESCRIPTION
E0-01	ELEC LEGEND/LIGHTING FIXTURE SCHEDULE/PANELS
ED1-01	MAIN LEVEL DEMO FLOOR PLAN-LIGHTING AREA A
ED1-02	MAIN LEVEL DEMO FLOOR PLAN-LIGHTING AREA B
ED2-01	MAIN LEVEL DEMO FLOOR PLAN-POWER AREA A
ED2-02	MAIN LEVEL DEMO FLOOR PLAN-POWER AREA B
E1-01	MAIN LEVEL FLOOR PLAN-LIGHTING AREA A
E1-02	MAIN LEVEL FLOOR PLAN-LIGHTING AREA B
E2-01	MAIN LEVEL FLOOR PLAN-POWER AREA A
E2-02	MAIN LEVEL FLOOR PLAN-POWER AREA B
E3-01	ELECTRICAL RISER DIAGRAM

### ELECTRICAL LEGEND \*

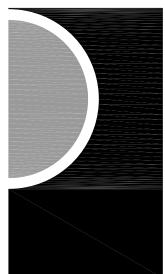


SHEET NO. E0-01



- $\sim$  O1 disconnect and remove lighting in area indicated. Protect and maintain branch circuit homerun wiring at ceiling J-box for re-use.
- DISCONNECT AND REMOVE EXISTING EMERGENCY LIGHT, EXIT LIGHT AND SWITCHES LOCATED ON DEMOLISHED WALL, PROTECT AND MAINTAIN EXISTING BRANCH CIRCUIT WIRING FOR RE-USE.
- $\overline{03}$  disconnect and remove existing emergency light, remove related wiring.
- $\overbrace{04}$  salvage existing fire alarm devices for Re-Use, Refer to New Work plan for complete fire alarm system scope.

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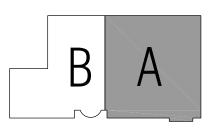
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#### KEY PLAN



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Roseville - Eastpointe Recreation Authority

PROJECT NAME

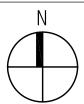
#### Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

13-162

ISSUES / REVISIONS BIDDING - CONSTRUCTION

5-28-2014

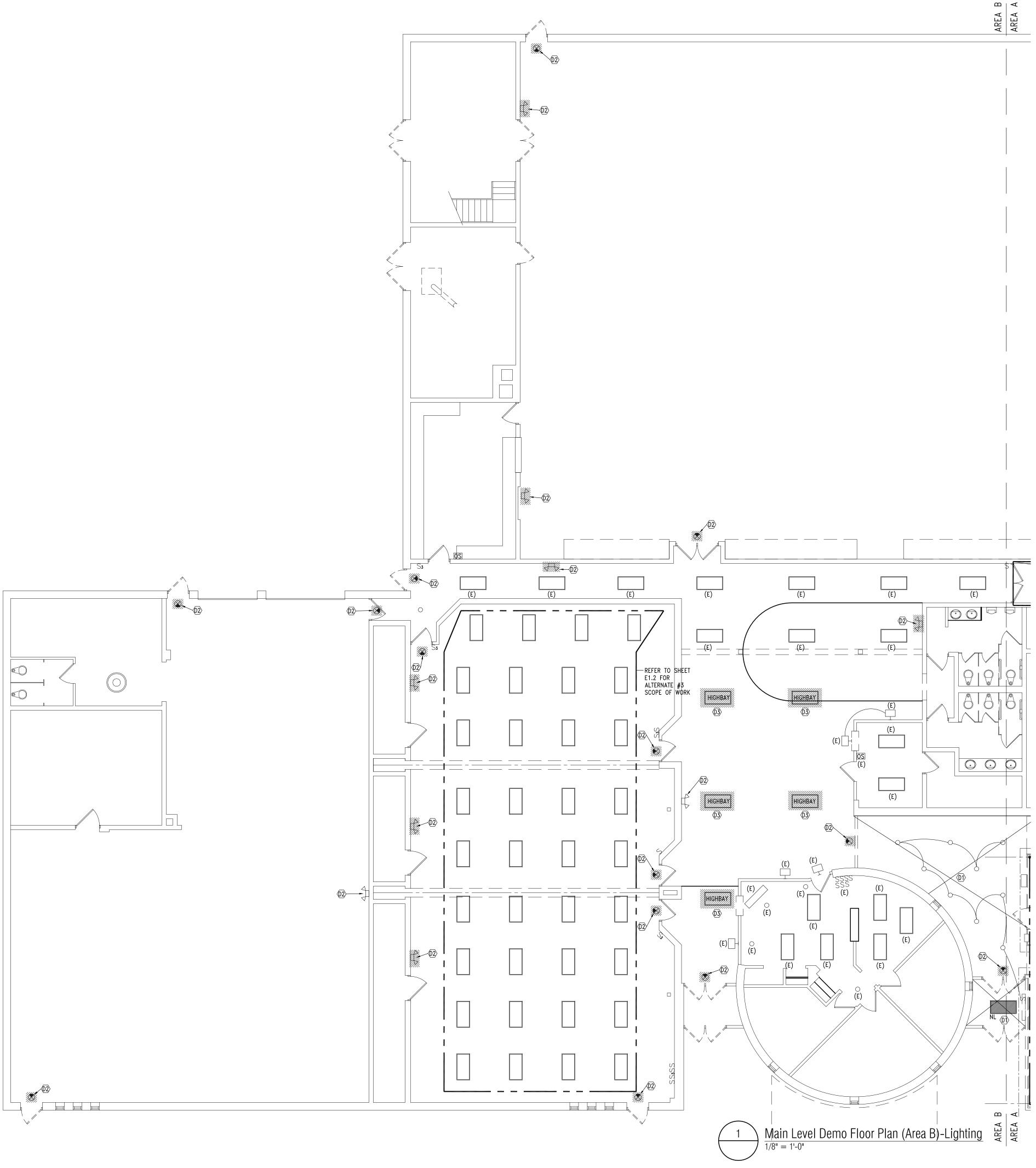


DRAWN BY NS CHECKED BY WZ APPROVED BY

ES Sheet NAME

SHEET NAME MAIN LEVEL DEMO FLOOR PLAN-LIGHTING AREA A SHEET NO.

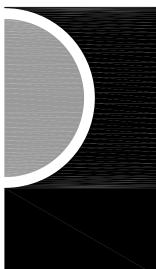
ED1-01



- $\langle D1 \rangle$  DISCONNECT AND REMOVE LIGHTING IN AREA INDICATED. PROTECT AND MAINTAIN BRANCH CIRCUIT HOMERUN WIRING AT CEILING J-BOX FOR RE-USE.
- DISCONNECT AND REMOVE EXISTING EMERGENCY LIGHT AND EXIT LIGHT, PROTECT AND MAINTAIN EXISTING BRANCH CIRCUIT WIRING FOR POSSIBLE RE-USE.

03 disconnect and remove existing high bay fluorescent fixture, protect and maintain existing branch circuit wiring and control for re-use.

### PARTNERS



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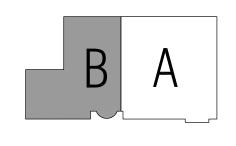
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#### KEY PLAN



OWNER

#### Roseville - Eastpointe Recreation Authority

PROJECT NAME

# Recreation Center Addition and Renovation

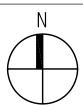
18185 Sycamore Roseville, MI 48066

PROJECT NO.

13-162

ISSUES / REVISIONS **BIDDING - CONSTRUCTION** 

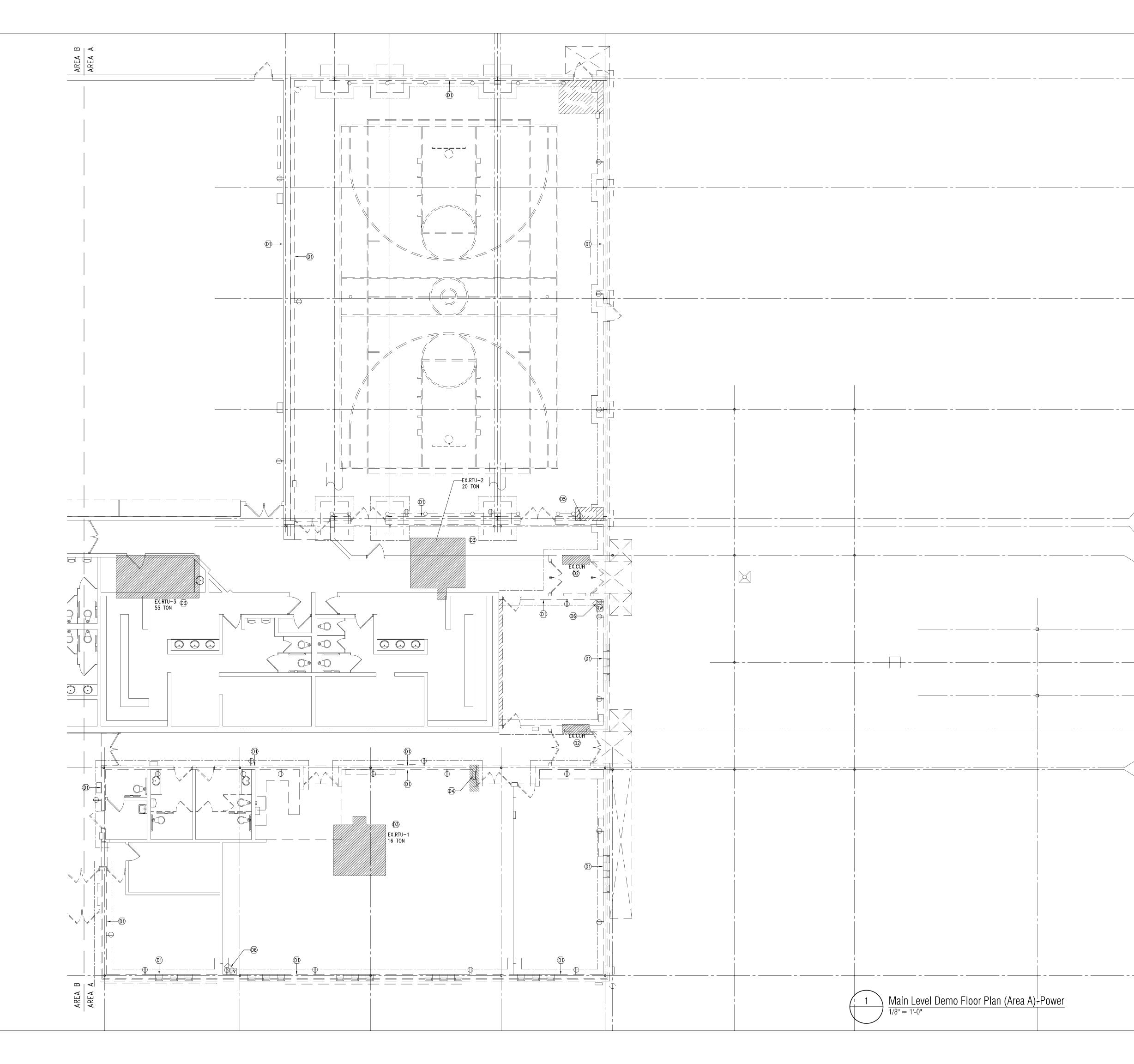
5-28-2014



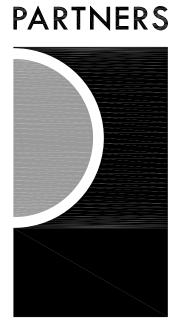
DRAWN BY NS CHECKED BY APPROVED BY ES

sheet name MAIN LEVEL DEMO FLOOR PLAN-LIGHTING AREA B

SHEET NO. ED1-02



- DISCONNECT AND REMOVE ALL EXISTING DATA AND ELECTRICAL ITEMS INCLUDING DUPLEX RECEPTACLES, J-BOXES, DATA JACKS...ETC. ON DEMOLISHED WALLS, REMOVE RELATED WIRING BACK TO SOURCE OR TO EXISTING TO REMAIN ITEMS IF APPLICABLE.
- (02) DISCONNECT POWER TO EX.CUH, REMOVE WIRING BACK TO SOURCE.
- (03)DISCONNECT POWER TO EXISTING RTU, PROTECT AND MAINTAIN BRANCH CIRCUIT WIRING FOR RE-USE.
- 04 disconnect and remove existing panel located in demolished wall and relocate to new wall as indicated on new work plan. Extend existing MAIN FEEDER AND BRANCH CIRCUIT WIRING AS REQUIRED.
- (5) DISCONNECT AND REMOVE EXISTING GFR RECEPTACLE FOR ELECTRIC WATER COOLER TO ALLOW FOR NEW WALL, PROTECT AND MAINTAIN BRANCH CIRCUIT WIRING FOR RE-INSTALLATION.
- $\overline{06}$  DISCONNECT AND REMOVE EXISTING OUTLETS FOR TV TO ALLOW FOR NEW WALL, PROTECT AND MAINTAIN BRANCH CIRCUIT WIRING FOR RE-INSTALLATION.
- $\langle 07 \rangle$ DISCONNECT AND REMOVE GARBAGE DISPOSAL TO ALLOW FOR NEW MILL WORK, PROTECT AND MAINTAIN BRANCH CIRCUIT WIRING FOR RE-INSTALLATION.



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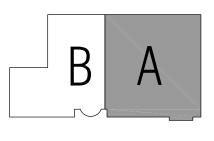
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KEY PLAN



OWNER Roseville - Eastpointe Recreation Authority

PROJECT NAME

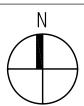
Recreation Center Addition and Renovation

18185 Sycamore Roseville, MI 48066

PROJECT NO. 13-162

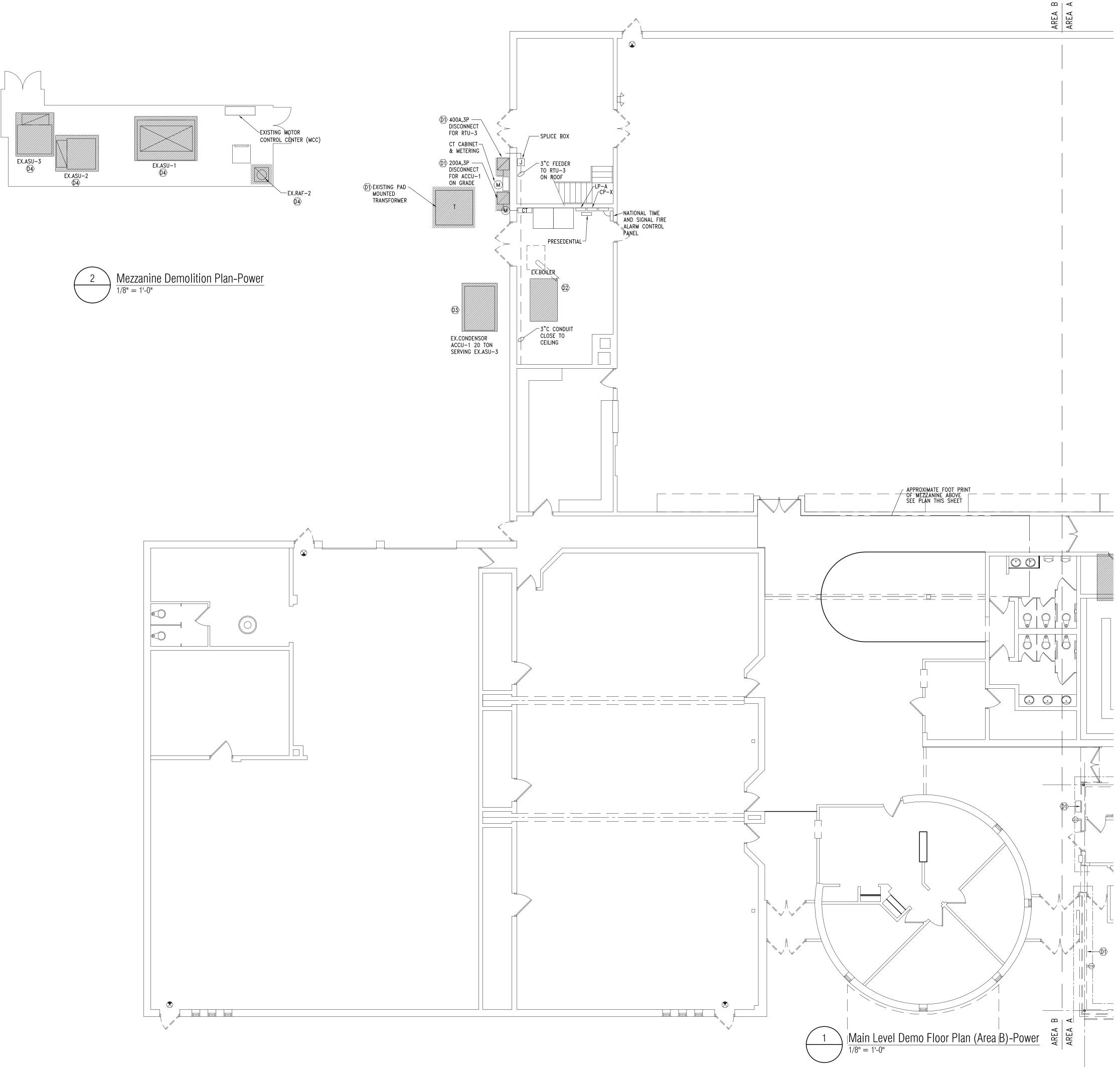
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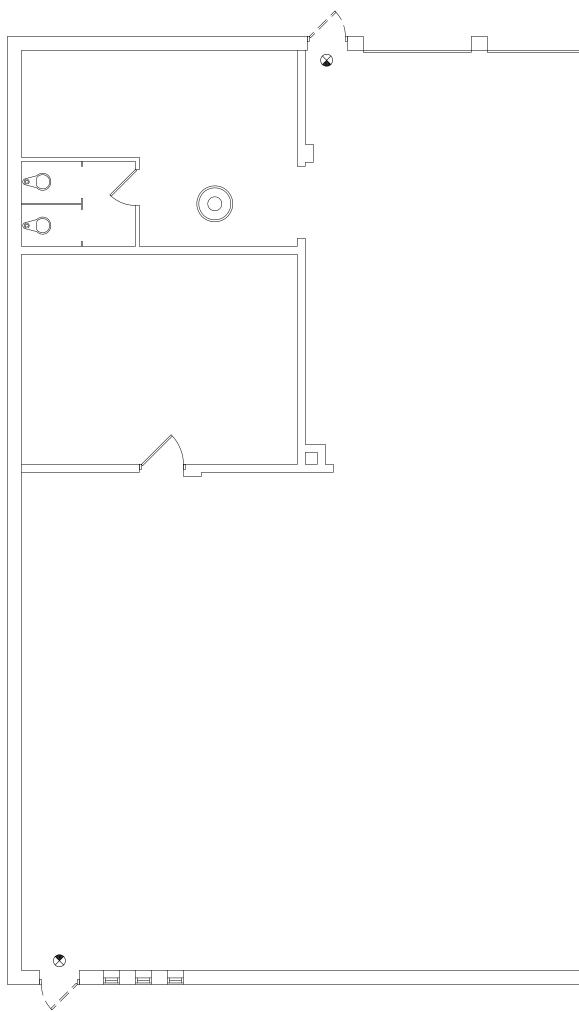
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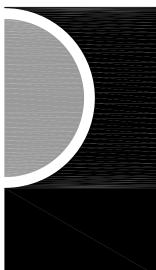
sheet name MAIN LEVEL DEMO FLOOR PLAN-POWER AREA A SHEET NO. ED2-01





- DISCONNECT AND REMOVE EXISTING SERVICE EQUIPMENT, REFER TO RISER DIAGRAM SHEET E3-01, COORDINATE WORK INVOLVING PAD MOUNTED TRANSFORMER WITH DTE CO.
- 02 disconnect power to existing boiler, remove wiring back to source. Label all unused breakers as spares.
- $\bigcirc 3$  DISCONNECT POWER TO EXISTING GROUND MOUNTED ACCU-1, REMOVE WIRING BACK TO SOURCE.
- 04 disconnect power to existing mechanical equipment, remove wiring and conduit back to source (motor control center).

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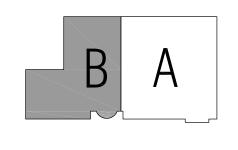
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PROJECT NAME

Recreation Center Addition and Renovation

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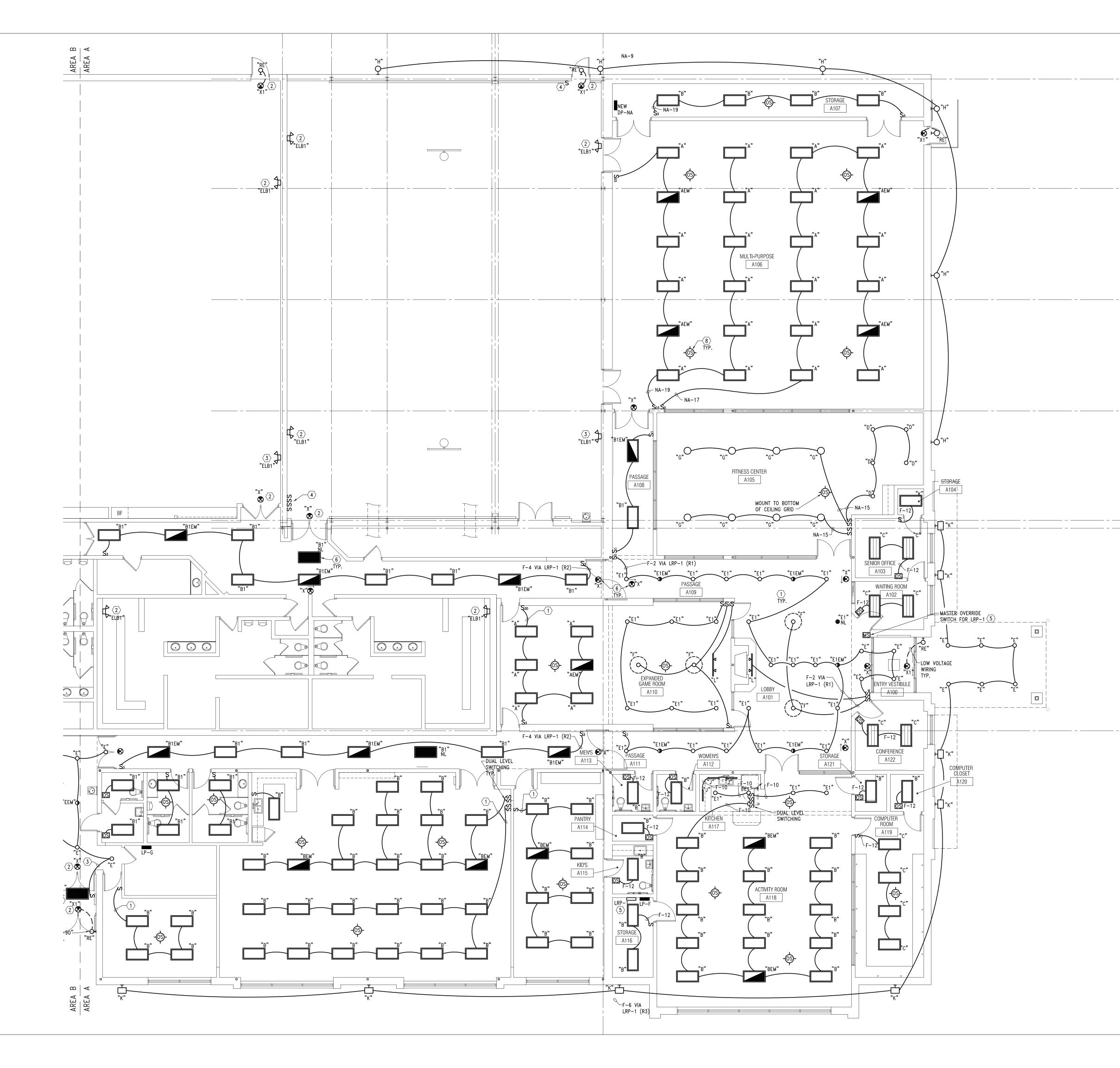
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sheet name MAIN LEVEL DEMO FLOOR PLAN-POWER AREA B SHEET NO. ED2-02



KEY NOTES:

- $\langle 1 \rangle$  wire new lighting to existing branch circuit salvaged from demolition, provide provisions for new occupancy sensors as required.
- $\langle 2 \rangle$  wire new emergency/exit light to existing branch circuit salvaged from demolition of old fixture.
- $\langle \mathbf{3} \rangle$  wire to existing lighting branch circuit in room ahead of switch.
- $\langle 4 \rangle$  provide new switches in new wall and wire to existing lighting and control same as before demolition.
- 5 PROVIDE NEW (4) RELAY LIGHTING CONTROL PANEL (LRP-1) WITH 4-30A,1P/120V RELAYS, WIRE ALL LIGHTING CIRCUITS INDICATED WITH RELAY NUMBER (R\_), PROGRAM PANEL TO SHUT OFF ALL INTERIOR LIGHTING CIRCUITS AFTER 30 MINUTES OF FACILITY CLOSING TO COMPLY WITH ASHRAE 90.1-2007 AND PROGRAM OUTDOOR LIGHTING AS DIRECTED BY OWNER, REFER TO SPECIFICATIONS FOR MORE DETAILS. PROVIDE THREE MASTER OVERRIDE SWITCHES TO CONTROL CIRCUITS SERVING INTERIOR LIGHTING AND WIRED THRU LRP-1 FOR FOR MASTER ON/OFF. VERIFY LOCATIONS WITH OWNER. PANEL SHALL BE LEVITON EZ-MAX PLUS OR APPROVED EQUAL.
- 6 UNLESS OTHERWISE NOTED WIRE EXIT LIGHTS AND NIGHT LIGHTS TO SAME AREA LIGHTING CIRCUIT AHEAD OF ANY AUTOMATIC LIGHTING CONTROL AND/OR LOCAL SWITCHES.
- FOR FLUORESCENT AND LED FIXTURES WITH BUILT-IN EMERGENCY BALLASTS, WIRE EMERGENCY SENSING UNIT AHEAD OF ANY AUTOMATIC LIGHTING CONTROL AND/OR LOCAL SWITCHES.
- 8 PROVIDE OCCUPANCY SENSOR CONTROL IN ALL AREAS INDICATED WITH SYMBOLS 5 CONTROL ALL NON-EMERGENCY LIGHTS TO COMPLY WITH ASHRAE 90.1-2007, WHERE CEILING SYMBOLS ARE SHOWN THEY ARE SHOWN FOR REFERENCE ONLY, CONTRACTOR SHALL DETERMINE QUANTITY, TYPE AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE PROPER COVERAGE IN ALL AREAS INDICATED.





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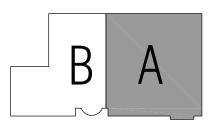
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KEY PLAN



OWNER

#### Roseville - Eastpointe Recreation Authority

PROJECT NAME

Recreation Center Addition and Renovation

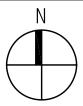
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PROJECT NO.

13-162

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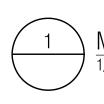
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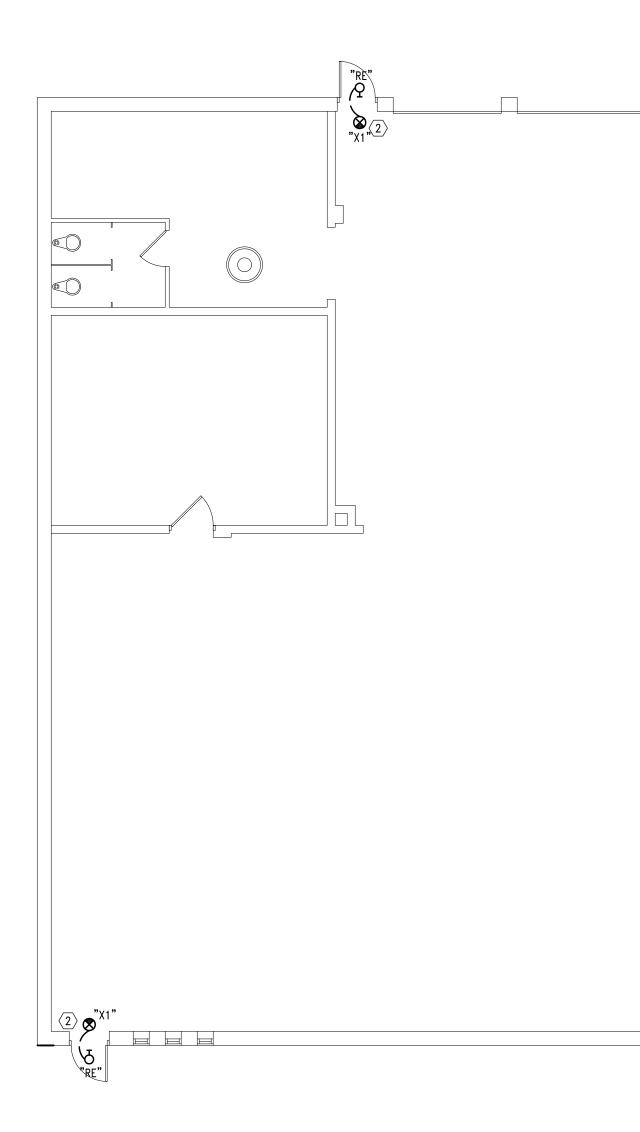


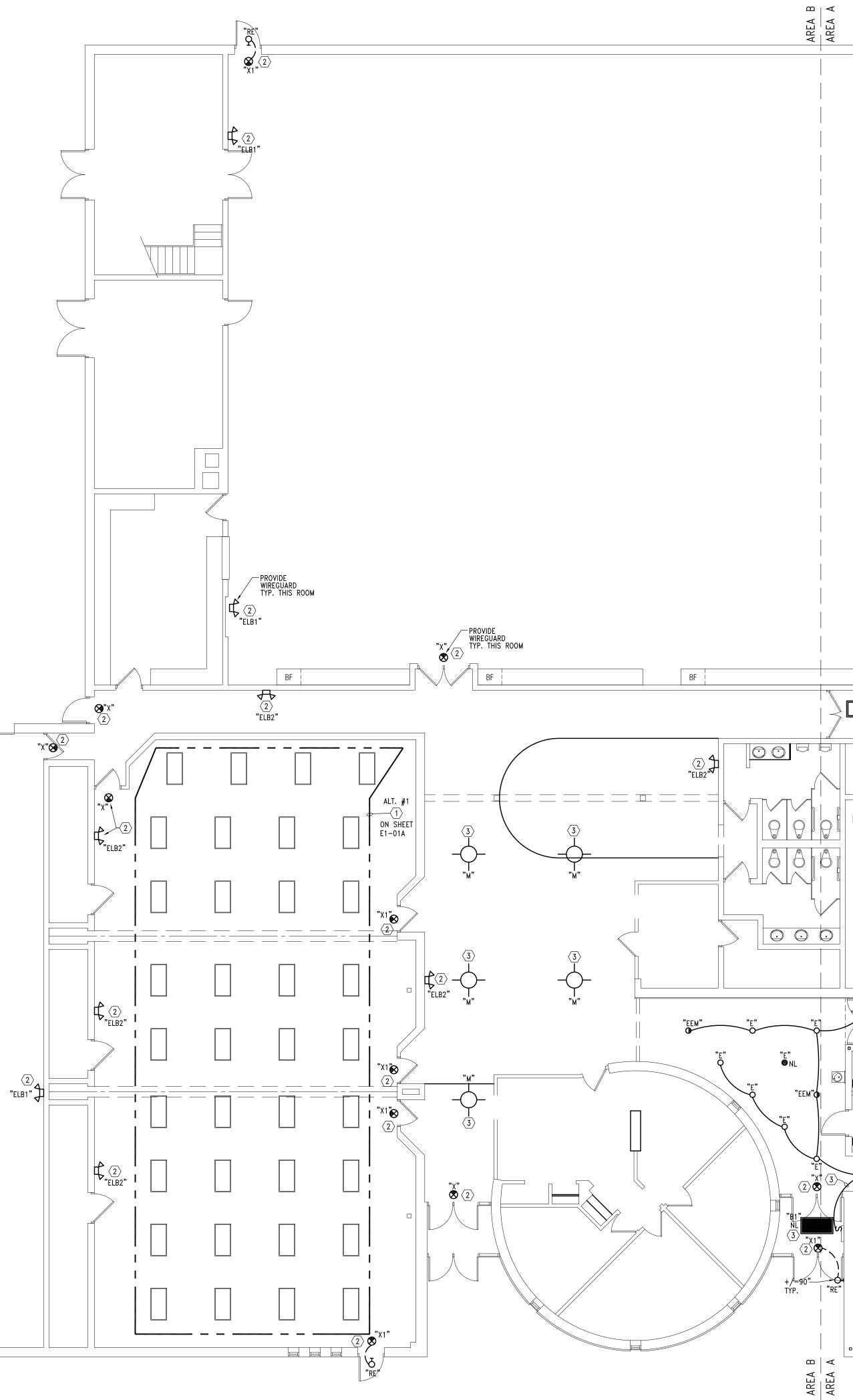
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SHEET NAME MAIN LEVEL FLOOR PLAN-LIGHTING AREA A SHEET NO. E1-01



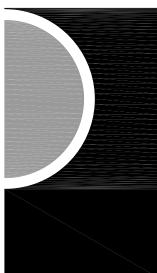




### <u>KEY NOTES</u> :

- ALTERNATE #1:
- REPLACE EXISTING 2'X4' RECESSED FLUORESCENT FIXTURES IN AREA INDICATED WITH NEW TYPE "B" FIXTURES, RE-USE EXISTING BRANCH CIRCUIT WIRING AND SWITCHING TO THE EXTENT POSSIBLE, PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSORS AND POWER PACKS, WIRE AS REQUIRED.
- 2 WIRE NEW EMERGENCY/EXIT LIGHT TO EXISTING BRANCH CIRCUIT SALVAGED FROM DEMOLITION OF OLD FIXTURE.
- $\langle \overline{3} \rangle$  wire to existing branch circuit and control salvaged from demolition.

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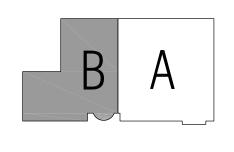
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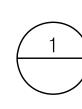
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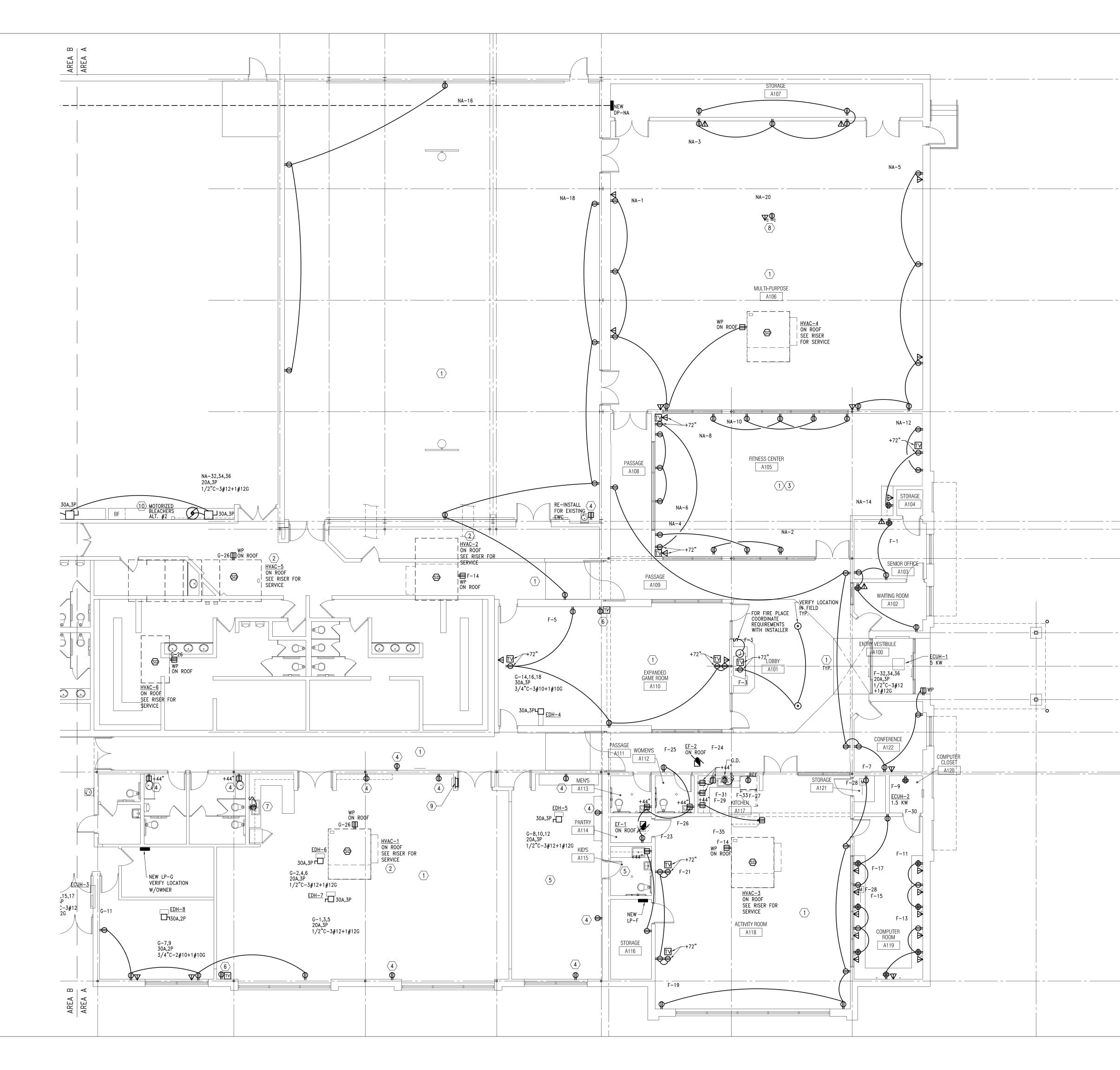
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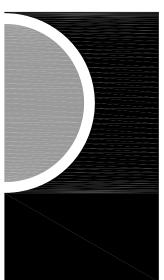
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 $\frac{\text{Main Level Floor Plan (Area B)-Lighting}}{\frac{1}{8"} = 1'-0"}$ 

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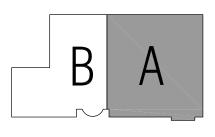
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KEY NOTES:

- $\langle 1 \rangle$  provide and/or modify existing fire alarm system coverage in the renovated AREAS AND THE NEW ADDITION AS AN EXTENSION OF THE EXISTING BUILDING FIRE ALARM SYSTEM (NATIONAL TIME AND SIGNAL CONTACT MR. DAVID BONOFIGLIO AT 248–3806264) INCLUDING ALL MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING AND NOTIFICATION APPLIANCES, CONTROL MODULES, WIRING AND TESTING AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DEVICES ARE NOT INDICATED ON PLANS. SYSTEM EXTENSION/MODIFICATION SHALL BE LAID OUT ON A PERFORMANCE BASIS AND APPROVED BY THE AUTHORITIES.
- $\langle 2 \rangle$  extend existing feeder salvaged from demolition to accommodate new hvac unit installation, provide splice boxes as required.
- $\langle 3 \rangle$  verify location of all outlets located in fitness center a105 with owner BEFORE ROUGH-IN.
- $\langle 4 \rangle$  wire new receptacle to existing branch circuit salvaged from demolition of old receptacles in the area, extend wiring as required. Maximum 6 duplex RECEPTACLES ON ANY 20A/120V CIRCUIT.
- $\langle 5 \rangle$  provide tamper proof receptacles in this room.
- $\langle 6 \rangle$  provide new duplex receptacle and tv outlet at height as directed by ARCHITECT, WIRE TO EXISTING BRANCH CIRCUIT WIRING SALVAGED FROM DEMOLITION OF OLD TV OUTLET.
- $\left< \frac{7}{2} \right>$  RE-INSTALL RECEPTACLE, SWITCH AND GARBAGE DISPOSAL AFTER NEW MILLWORK INSTALLATION.
- 8 PROVIDE POWER AND DATA OUTLET FOR CEILING MOUNTED PROJECTOR, INSTALL AT CENTER OF CEILING TILE, EXACT LOCATION SHALL BE DETERMINED BY OWNER/ARCHITECT.
- $\langle 9 \rangle$  relocated existing electrical panel, extend existing wiring as required to new location, refer to demolition plan for more info.
- ALTERNATE #2: PROVIDE POWER TO BLEACHERS, VERIFY EXACT LOCATION AND REQUIREMENTS BEFORE ROUGH-IN.





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PROJECT NAME

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PROJECT NO.

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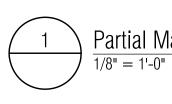
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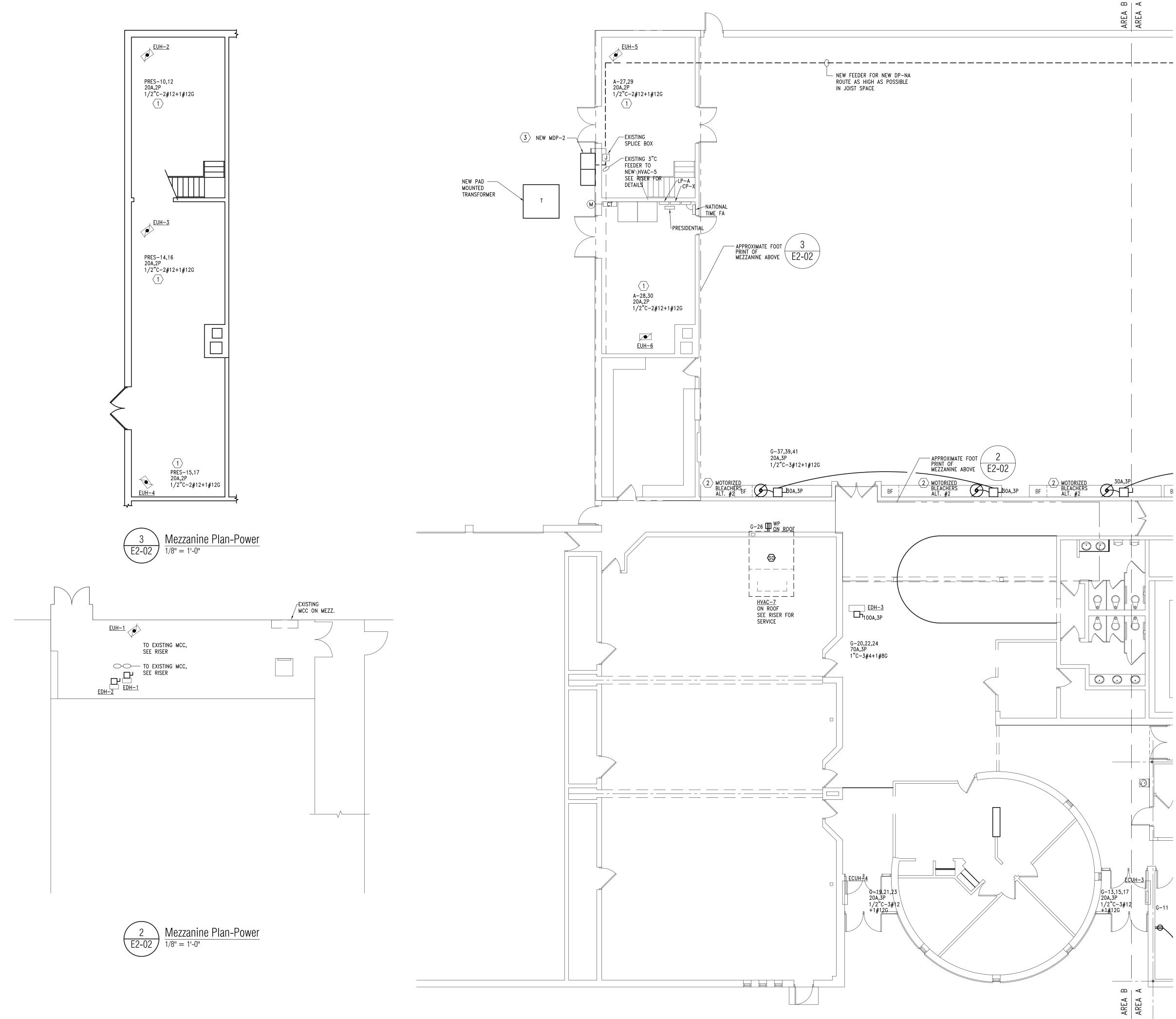
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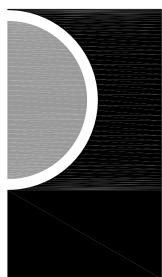


#### ⊳∣ < AREA AREA

#### <u>KEY NOTES:</u>

- $\langle 1 \rangle$  wire new heaters to existing panels, use available existing spare breakers and spare breakers that became available after demolition to the extent POSSIBLE, PROVIDE NEW BREAKERS AS REQUIRED, INDICATED SPACE NUMBERS IN PANELS ARE SHOWN FOR REFERENCE ONLY VERIFY IN FIELD EXACT POSITIONS IN PANELS.
- 2 ALTERNATE #2: PROVIDE POWER TO BLEACHERS, VERIFY EXACT LOCATION AND REQUIREMENTS BEFORE ROUGH-IN.
- $\langle 3 
  angle$  verify existing conditions before ordering new MDP-2 and verify required WORKING CLEARANCES REQUIRED BY CODE ARE MET BEFORE FINAL INSTALLATION, COORDINATE WORK WITH DTE CO.

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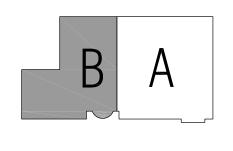
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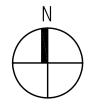
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ISSUES / REVISIONS **BIDDING - CONSTRUCTION** 

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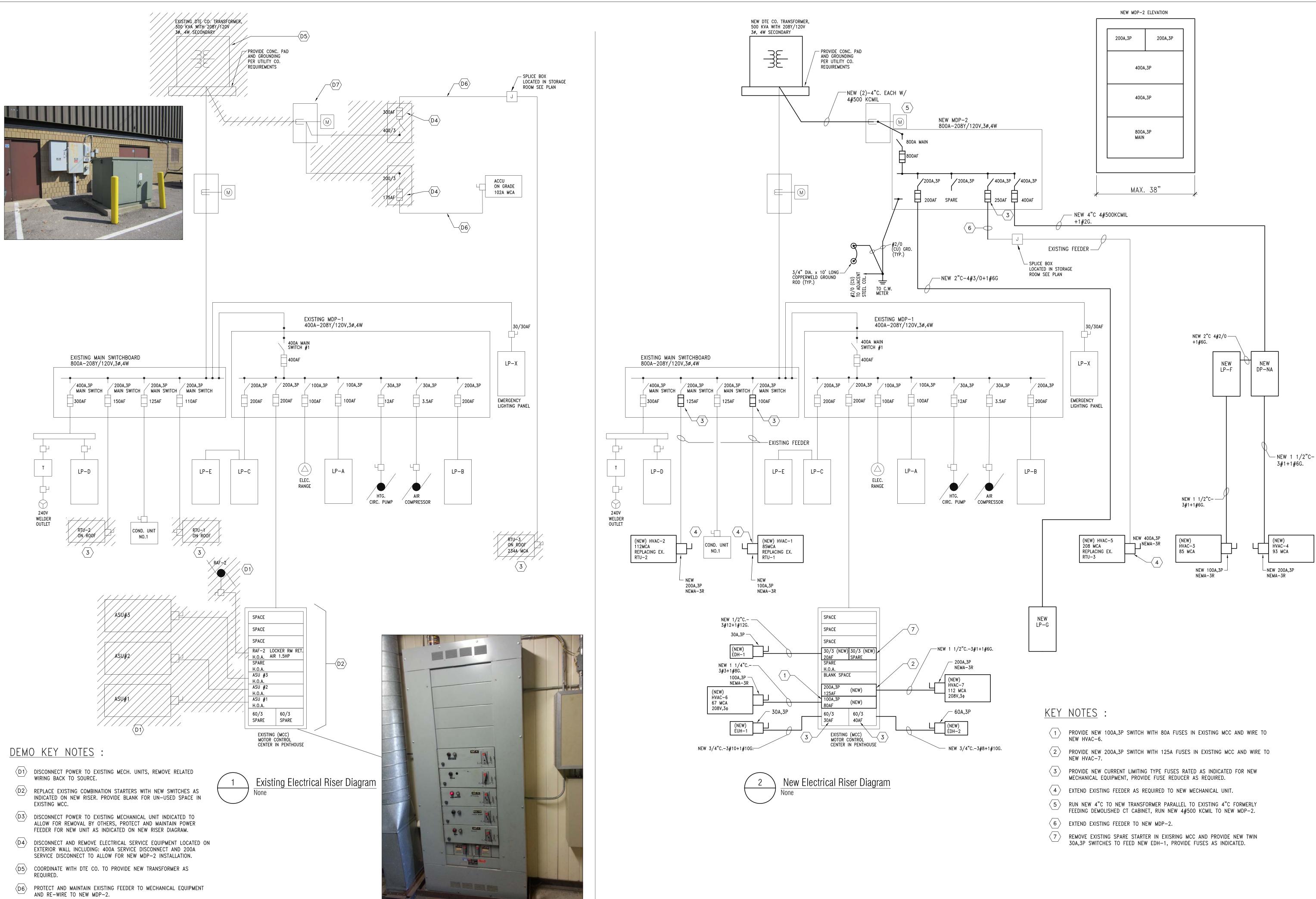
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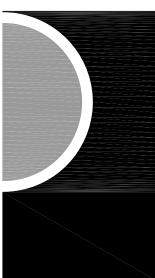
 $\underbrace{1}_{\text{E2-02}} \frac{\text{Partial Main Level Floor Plan (Area B)-Power}}{\frac{1}{1/8"} = 1'-0"}$ 

AREA AREA



 $\langle D7 \rangle$  contractor may re-use existing ct cabinet if possible, base bid SHALL INCLUDE PROVIDING NEW 1000A RATED CT CABINET, IF EXISTING CT CABINET IS RE-USED CONTRACTOR SHALL ISSUE CREDIT TO OWNER.

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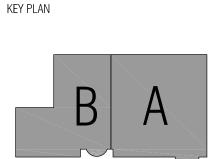
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PROJECT NAME

#### **Recreation Center** Addition and Renovation

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PROJECT NO.

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#### SHEET NAME ELECTRICAL **RISER DIAGRAM**

SHEET NO. E3-01