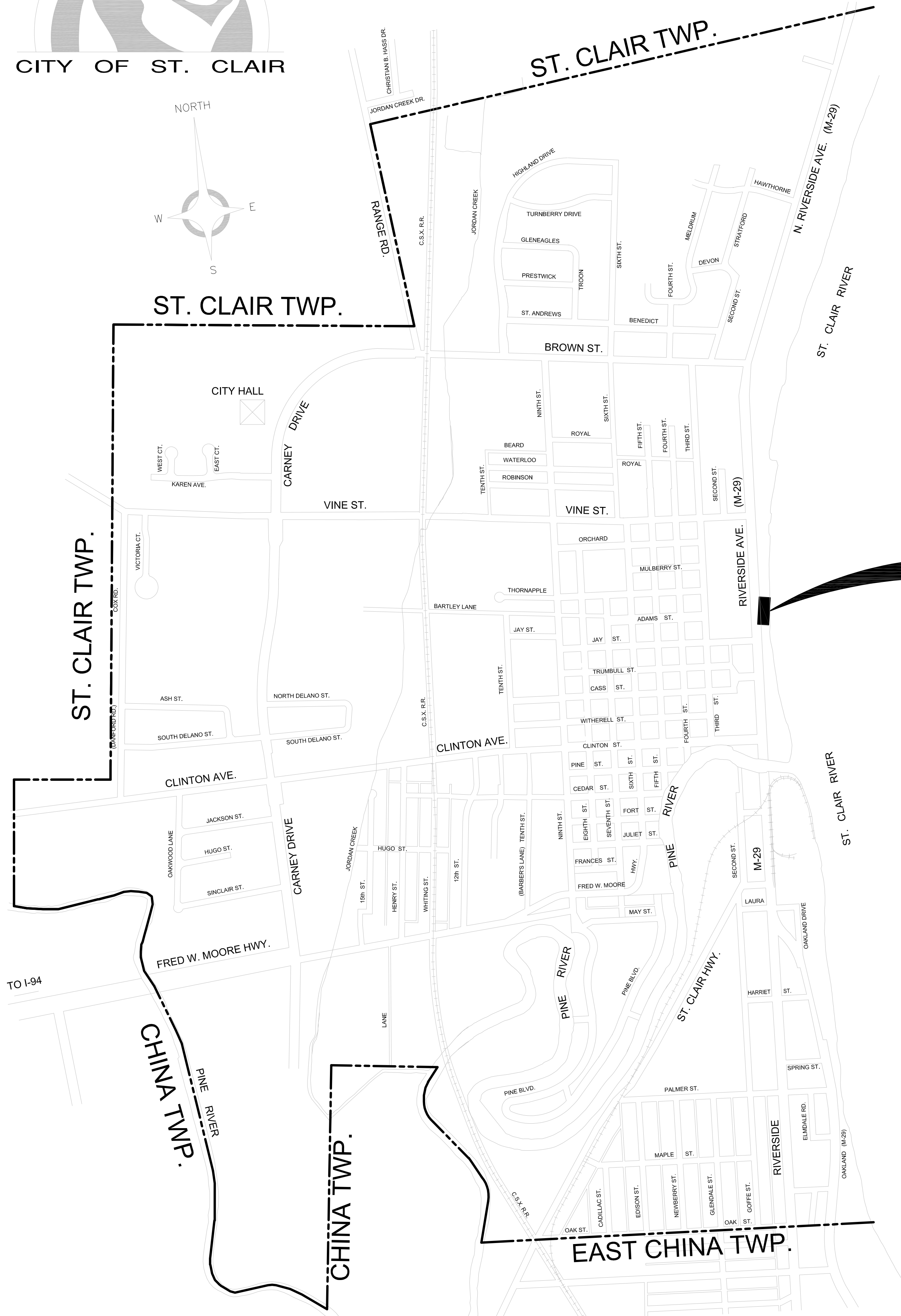




City of St. Clair

St. Clair County, Michigan



PROJECT SITE
200 N. RIVERSIDE AVE.
ST. CLAIR, MICHIGAN 48079

INDEX TO SHEETS

ARCHITECTURE:

A011	GENERAL PROJECT INFORMATION
A031	SPECIFICATION
A101	FLOOR PLAN, CEILING PLAN AND ROOF PLAN
A201	ELEVATIONS
A301	BUILDING AND WALL SECTIONS

STRUCTURAL:

S011	GENERAL NOTES AND DESIGN CRITERIA
S101	FOUNDATION AND LINTEL FRAMING PLANS AND STRUCTURAL SPECIFICATIONS

MEP:

M101	MECHANICAL AND PLUMBING PLANS
E101	ELECTRICAL PLAN



ANDERSON, ECKSTEIN AND
WESTRICK, INC.
CIVIL ENGINEERS SURVEYORS ARCHITECTS

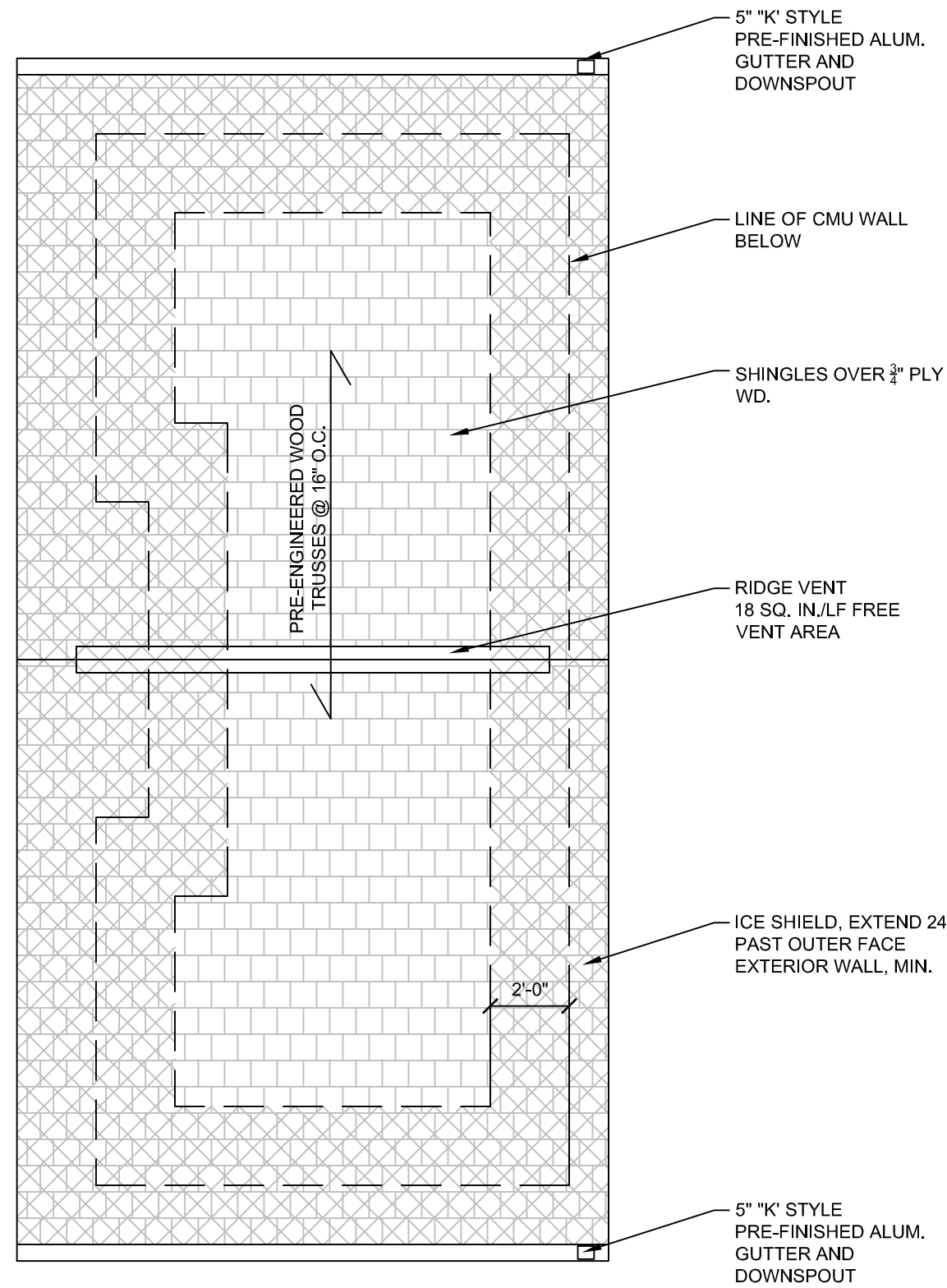
"I HEREBY CERTIFY THESE PLANS HAVE BEEN PREPARED UNDER MY
DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PUBLIC ACTS
OF 1937 AS AMENDED- STATE OF MICHIGAN."

SCOTT P. KELLEY, RA 1301046326

DATE

ROOF PLAN NOTES:

VENTILATION REQUIREMENT:	
VENTED ATTIC AREA =	445 SQ. FT.
NET FREE AREA REQ'D = 1/150 =	432 SQ. IN.
RIDGE VENT: 13' LF (18 SQ. IN./LF) =	234 SQ. IN.
SOFFIT: 3'x15' IF (15 SQ. IN.) =	225 SQ. IN.
TOTAL =	456 SQ. IN.



PARTITIONS GENERAL NOTES

- (A) 8" CMU W/ BRICK AND HOR. REINF. @ 16" O.C., GROUT CORES SOLID W/ VERT BARS. PAINT.
- (B) PARTITION BUILT TIGHT TO UNDERSIDE OF STRUCTURE; 8" CMU AND HOR. REINF. @ 16" O.C., GROUT CORES SOLID W/ VERT BARS. PAINT. SEE WALL SECTION

ACCESSORIES SCHEDULE

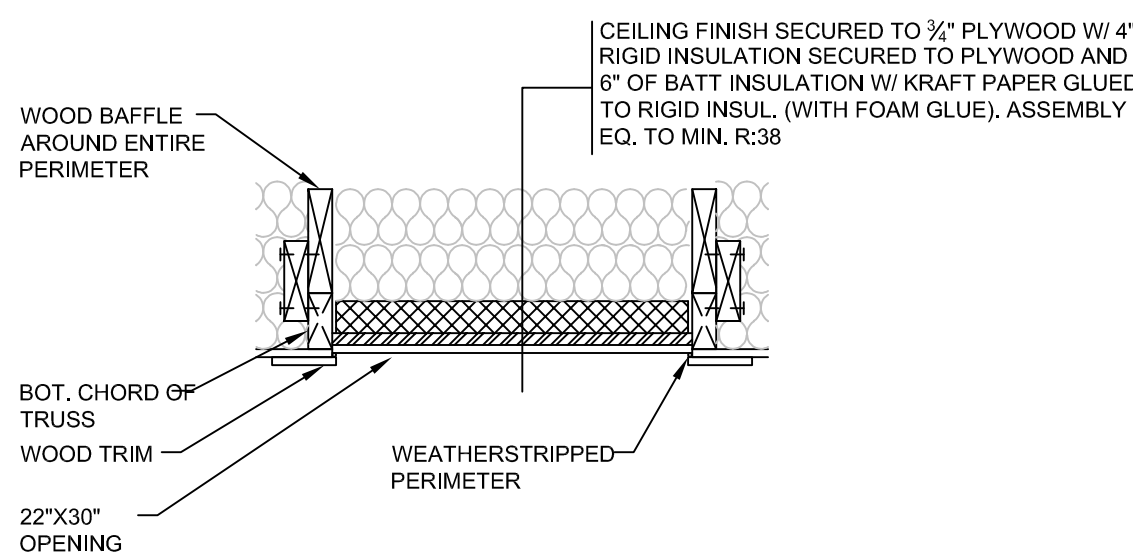
MK	ITEM	MANUFACTURER & MODEL
A	TOILET PAPER DISPENSER	BOBRICK* B-2740
B	S.S. HANDICAP GRAB BARS	BOBRICK* B-5806
C	SOAP DISPENSER (SURF. MOUNT.)	BOBRICK* B-306
D	SANITARY NAPKIN DISPOSAL	BOBRICK* B-254
E	ELEC. HAND DRYER	ASI 0198-MH
F	WASTER RECEPACLE	BOBRICK* B-277
G	BABY CHANGING STATION	KOALA KARE* KB300-00
H	SS URINAL	ACORN 1709HEU-W-1
I	SS MIRROR, 18"x24"	BOBRICK* B-1556
J	DRINKING FOUNTAIN/BOTTLE FILLER	MURDOCK A171-UG-VR-BF11S
K	SS SINK	ACORN ELPS1
L	SS TOILET	ACORN R2100

NOTE: 1. ACCESSORIES TYPICAL EA. TOILET
2. * OR EQUAL

3 ROOF PLAN
A101 SCALE: 1/4" = 1'-0"

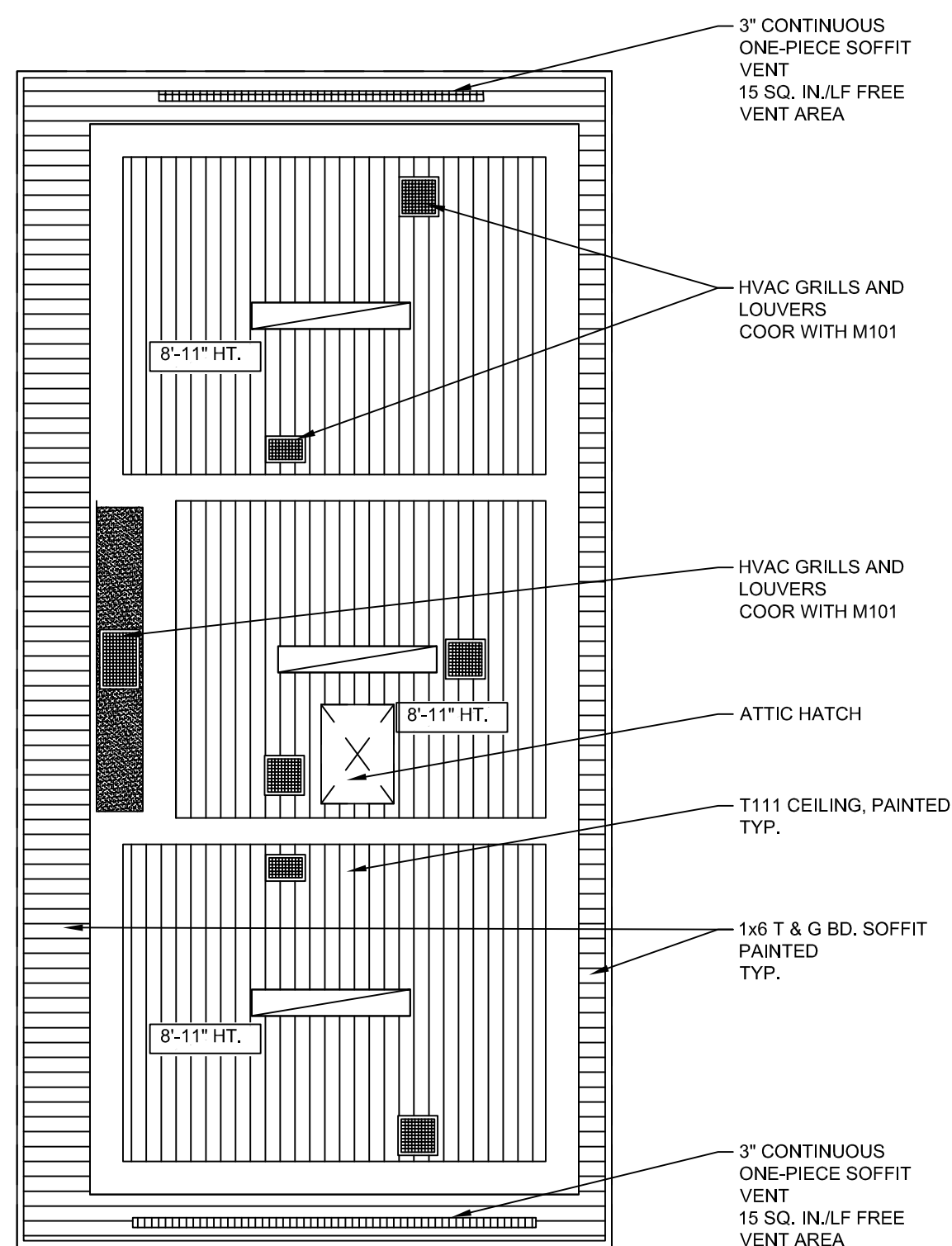
CEILING LEGEND

- T111 CEILING, PAINTED
- 1x6 TOUGH AND GROOVE SOFFIT
- 48" SURFACE MOUNTED LIGHT FIXTURE
- EXHAUST FAN
- ATTIC ACCESS

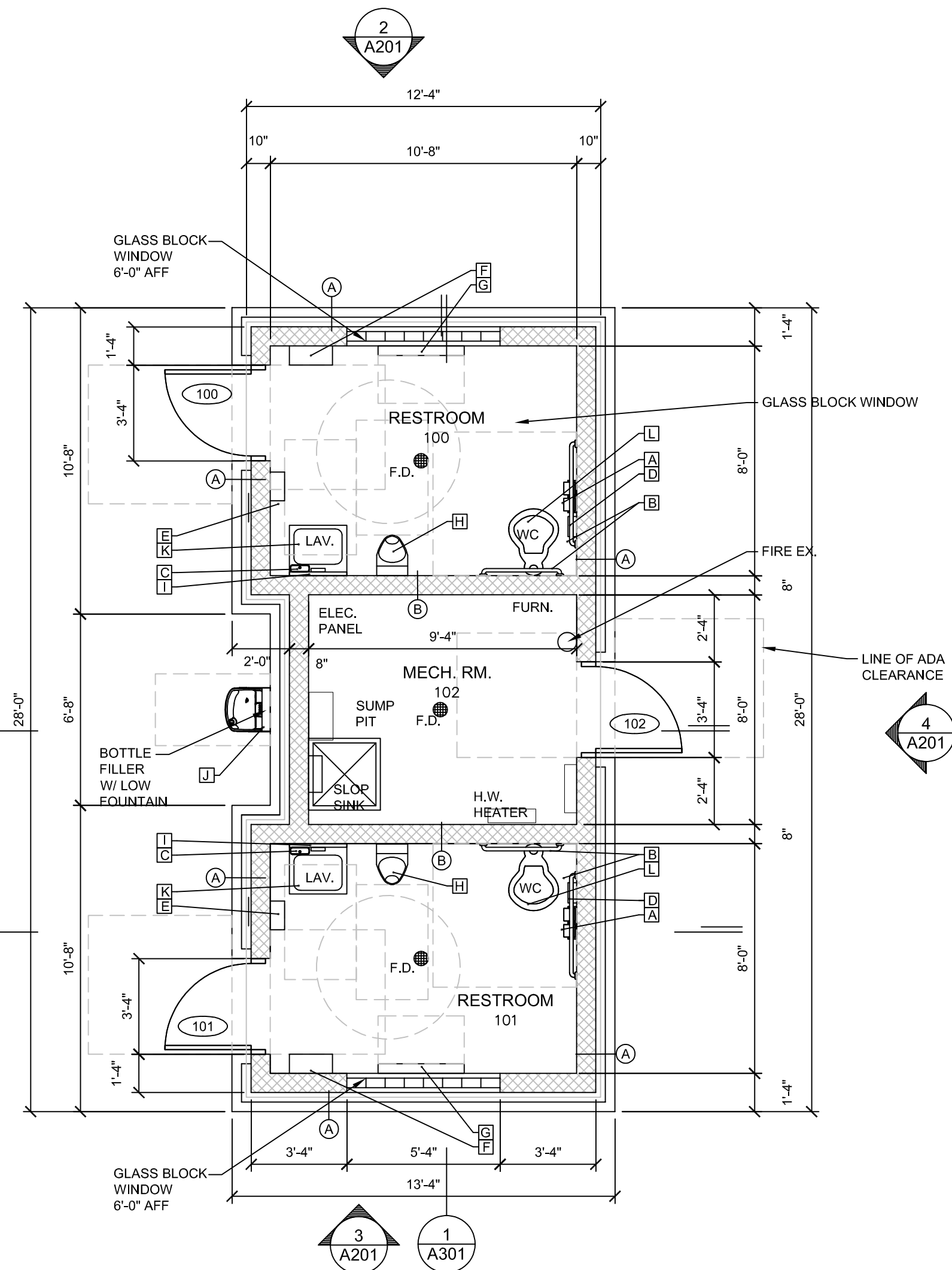


ATTIC HATCH DETAIL

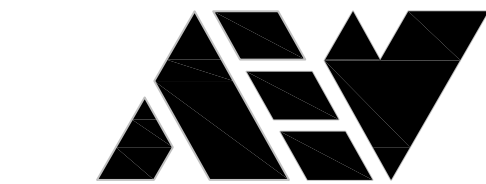
SCALE: N.T.S



2 REFLECTED CEILING PLAN
A101 SCALE: 1/4" = 1'-0"



1 FLOOR PLAN
A101 SCALE: 1/4"=1'-0"



ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES

06/19/2026 03/23/2026 2/27/2026	BID ISSUE OWNER REVIEW OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

ST. CLAIR TRAIL HUB
PALMER PARK

SHEET TITLE:

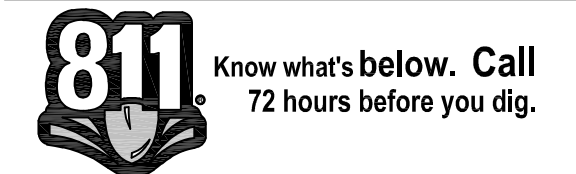
FLOOR PLAN,
CEILING PLAN AND
ROOF PLAN

CLIENT:

ST. CLAIR

☒ PRELIMINARY	☐ CONSTRUCTION	☐ RECORD
DRAWN BY: SPK	CHECKED BY: JRA	DATE: JUNE 2026

SCALE:



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

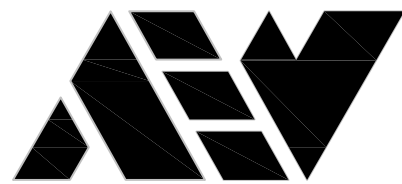
0186-0282

W:\0186\0282\DRAWINGS\CONSTRUCTION\ARCHSHEETS_P\BEGAT03\EQUIPMENT.DWG
A101-6/19/2026 2:07:33 PM

SHEET NO.

A101

COPYRIGHT, 2026, ANDERSON, ECKSTEIN AND WESTRICK, INC.



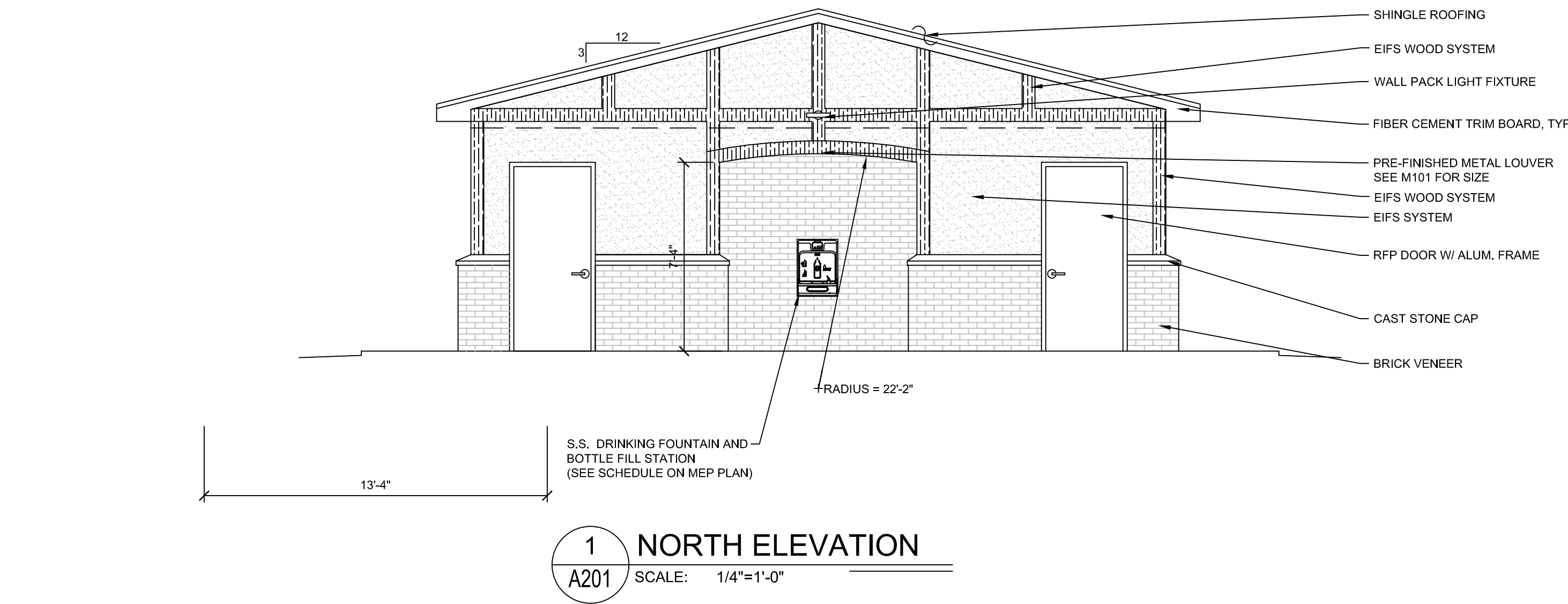
ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

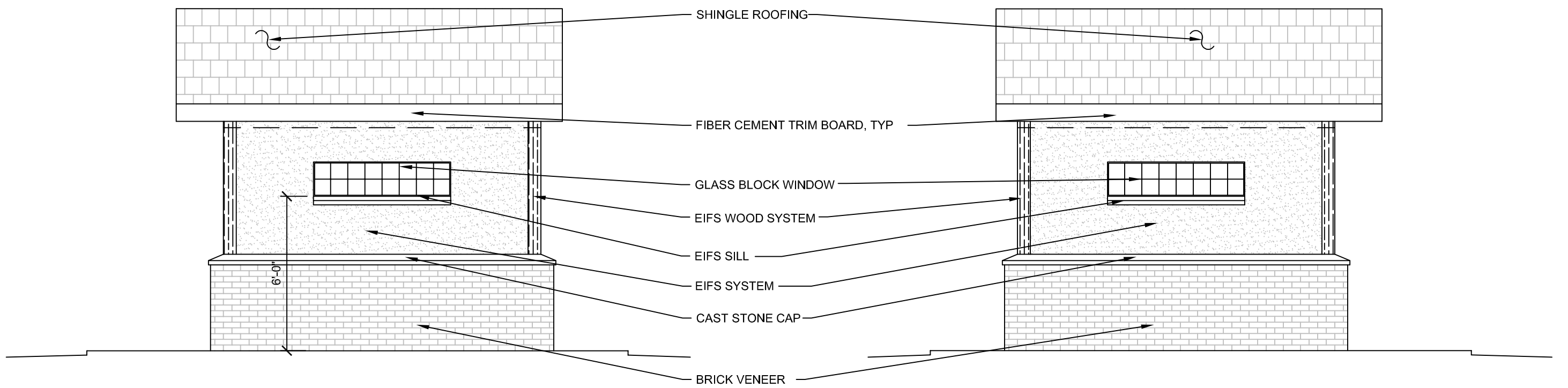
51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES

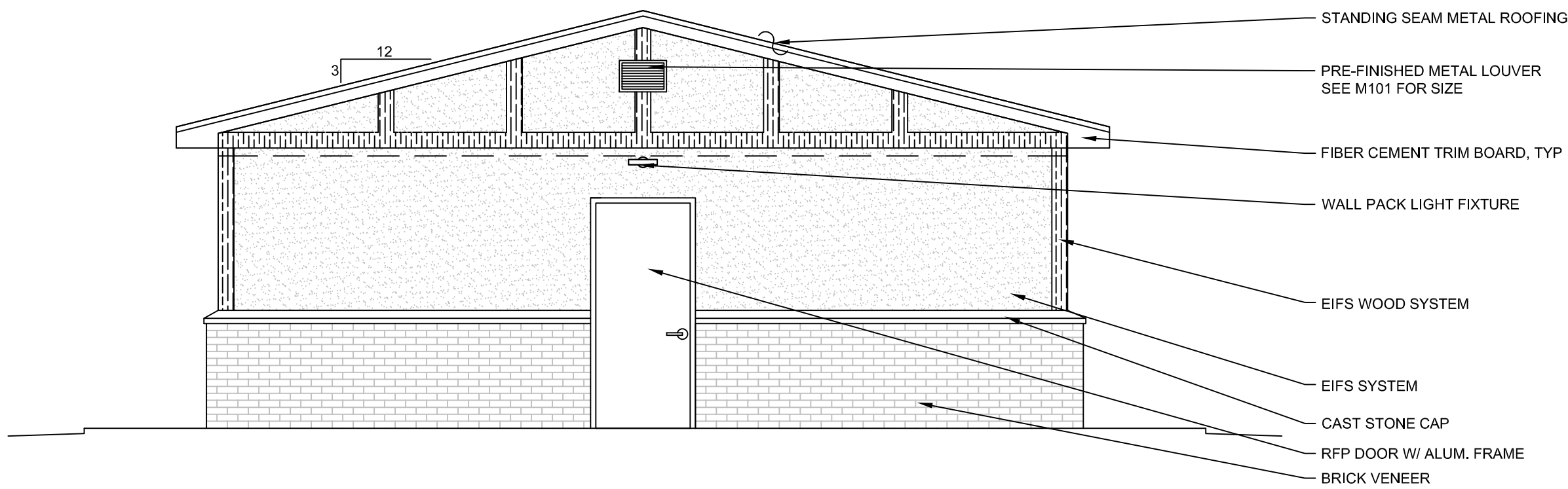


1 NORTH ELEVATION
A201 SCALE: 1/4"=1'-0"



3 WEST ELEVATION
A201 SCALE: 1/4"=1'-0"

2 EAST ELEVATION
A201 SCALE: 1/4"=1'-0"



4 SOUTH ELEVATION
A201 SCALE: 1/4"=1'-0"

06/19/2026 03/23/2026 02/24/2026	BID ISSUE OWNER REVIEW OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

ST. CLAIR TRAIL HUB PALMER PARK

SHEET TITLE:

ELEVATIONS

CLIENT:

ST. CLAIR

☒ PRELIMINARY	☐ CONSTRUCTION	☐ RECORD
DRAWN BY:	CHECKED BY:	DATE:
SPK	JRA	JUNE 2026
SCALE:		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

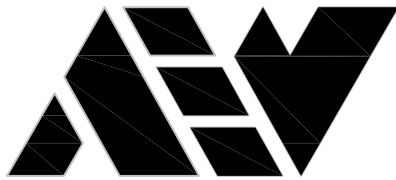
0186-0282

W:\0186\0282\CD\DRAWINGS\CONSTRUCTION\ARCH\ARCHSHEETS_P\EGATION\EQUIPMENT.DWG
A201-6/19/2026 2:26:12 PM

SHEET NO.

A201

COPYRIGHT, 2026, ANDERSON, ECKSTEIN AND WESTRICK, INC.



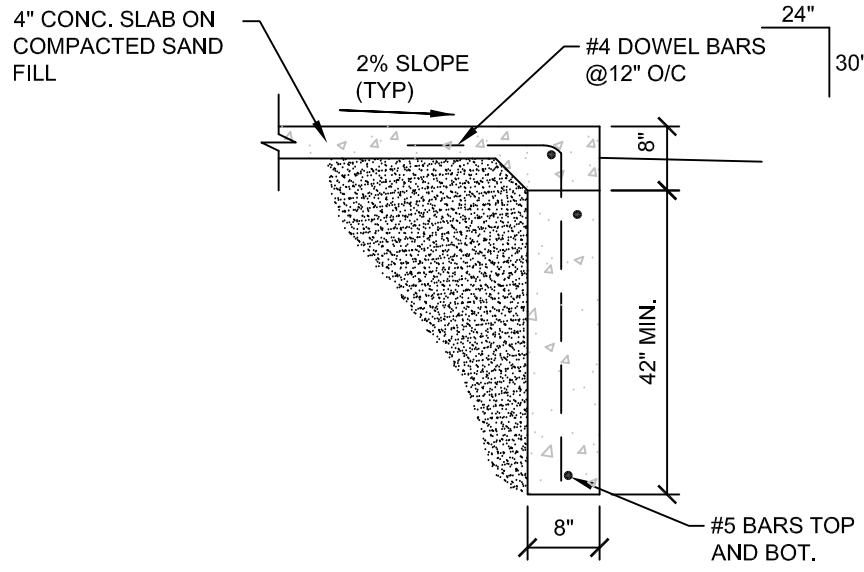
ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone: 586.726.1234
Shelby Township Fax: 586.726.8780
Michigan 48315

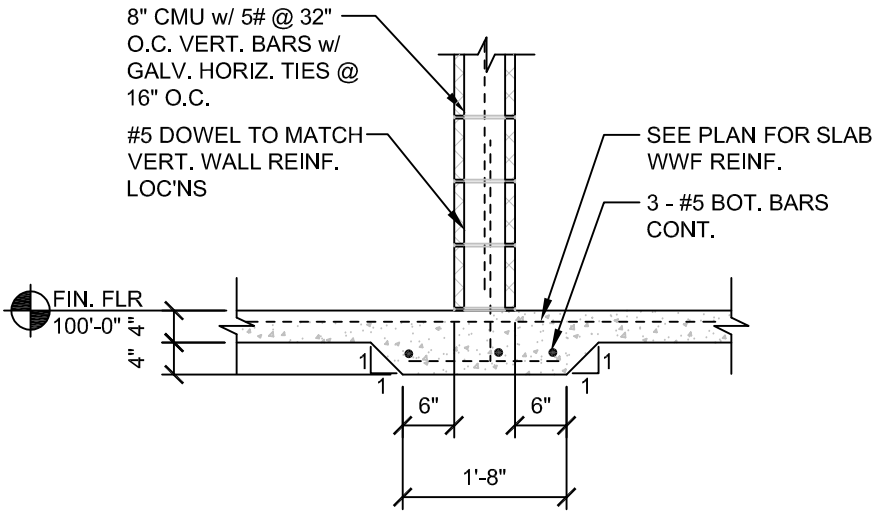
www.aewinc.com

ENGINEERING STRONG COMMUNITIES



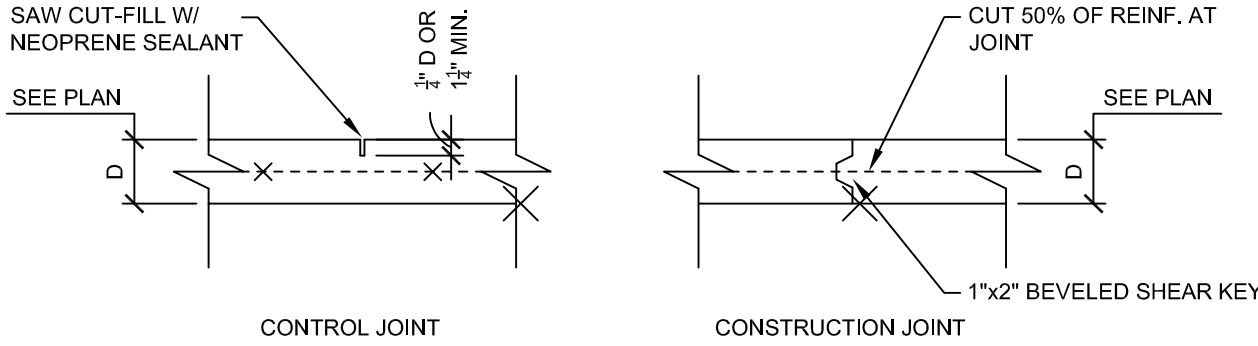
TYPICAL STOOP DETAIL

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



TYP. THICKENED SLAB DETAIL

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



TYP. FLOOR SLAB JOINT DETAILS

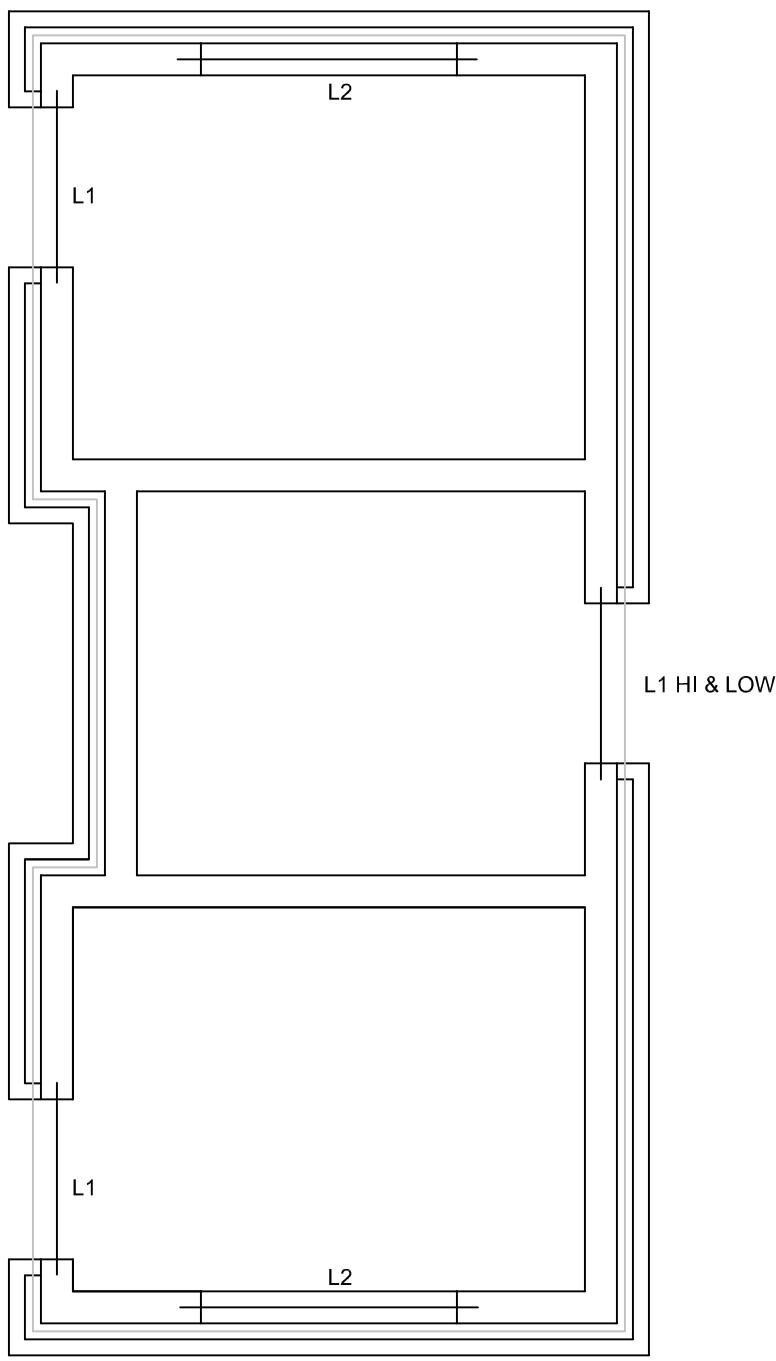
SCALE: N.T.S.

LINTEL SCHEDULE

MARK	LINTEL	BRICK ANGLE	BEARING	REMARKS
L1	8" DEEP MASONRY LINTEL w/2 - #5 BOT BARS	L 5 x 3 1/2 x 5/16 (LLH)	8" MIN.	
L2	16" DEEP MASONRY LINTEL w/2 - #5 BOT BARS	L 5 x 5 x 1/2	8" MIN.	

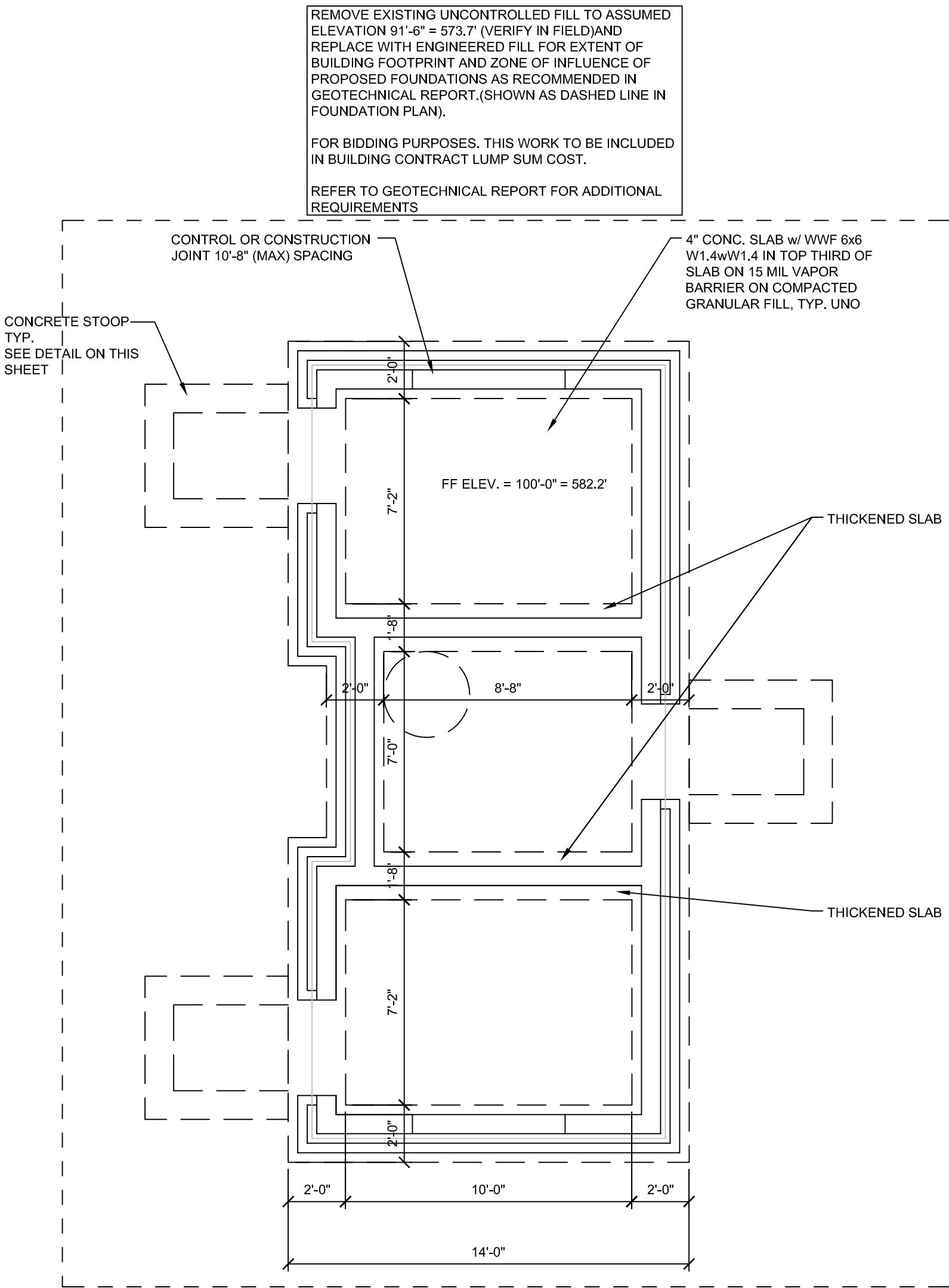
NOTES:

1. REFER TO MASONRY NOTES FOR ADDITIONAL REQUIREMENTS



LINTEL FRAMING PLAN

SCALE: 1/4"=1'-0"



FOUNDATION PLAN

SCALE: 1/4"=1'-0"



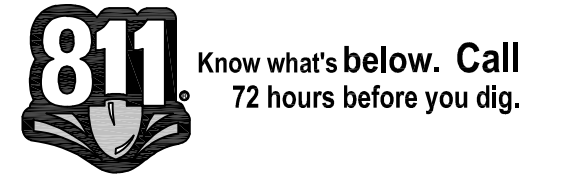
ST. CLAIR TRAIL HUB
PALMER PARK

FOUNDATION PLAN,
LINTEL FRAMING
PLAN AND
STRUCTURAL
SPECIFICATION

CLIENT:

ST. CLAIR

☒ PRELIMINARY	☐ CONSTRUCTION	☐ RECORD
DRAWN BY:	CHECKED BY:	DATE:
SPK	JRA	JUNE 2026
SCALE:		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

0186-0282

W:\818186-0282\DRAWINGS\CONSTRUCTION\ARCHSHEETS\REVIGATION EQUIPMENT.DWG
S101-6/19/2026 1:39:17 PM

SHEET NO.

S101

COPYRIGHT, 2026, ANDERSON, ECKSTEIN AND WESTRICK, INC.

GENERAL TRADES SPECIFICATIONS

GENERAL REQUIREMENTS:

READ AND BE BOUND BY THE ARCHITECTURAL SPECIFICATIONS.

THESE SPECIFICATIONS, ALL OTHER DOCUMENTS ATTACHED HERETO, ALL ADDENDA ISSUED AND THE ACCOMPANYING PLANS ARE INTENDED TO PROVIDE FOR THE COMPLETE FURNISHING AND INSTALLING OF THE ENTIRE MECHANICAL SYSTEM.

THE WORK SHALL BE DONE IN ACCORDANCE WITH BEST PRACTICE SO AS TO CONTRIBUTE TO EFFICIENCY OF OPERATION AND MINIMUM MAINTENANCE AND SHALL BE INSTALLED WITH PROPER ACCESSIBILITY. THE MATERIALS AND EQUIPMENT, INCLUDING ALL NECESSARY ACCESSORIES, SHALL BE PUT INTO PROPER ADJUSTMENT SO THAT THE COMPONENT PARTS FUNCTION TOGETHER AS A WORKABLE SYSTEM. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS AND OPERATIONS AS INDICATED EITHER ON THE DRAWINGS OR CONTAINED HEREIN OR AS MAY BE REASONABLY IMPLIED BY EITHER TO ACCOMPLISH COMPLETE MECHANICAL SYSTEMS.

GOVERNING AGENCIES:

THE CONTRACTOR SHALL BE FULLY INFORMED OF ALL LAWS, ORDINANCES AND CODES, AND SHALL, IN THE PERFORMANCE OF THE CONTRACT, COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL AFORESAID REGULATIONS. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS AND ANY ADDITIONAL WORK NECESSARY TO MEET CODE REQUIREMENTS SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER.

DAMAGE TO OTHER WORK:

REPAIR AND PAY FOR ALL DAMAGE DONE TO THE EXISTING AND NEW WORK BY MECHANICAL TRADES WORKMEN.

CUTTING AND PATCHING:

ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION SHALL BE BY MECHANICAL TRADES AND INCLUDED IN EXPENSE TO AFOREMENTIONED.

CLEANING:

PREMISES SHALL BE CLEANED UPON COMPLETION OF MECHANICAL WORK.

COOPERATION WITH OTHER TRADES:

COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCE AND PRESENT A NEAT APPEARANCE. INTERFERENCE WITH RESULT FROM POOR COORDINATION WILL NOT BE CONSIDERED AS EXTRA WORK.

INTERFERENCE:

ALL MINOR DEVIATIONS REQUIRED DUE TO INTERFERENCE WITH THE WORK OF OTHERS SHALL BE MADE BY MECHANICAL CONTRACTOR AT NO ADDITIONAL COST. VERIFY LOCATIONS OF EXISTING PIPING, DUCTS AND BUILDING STRUCTURAL BEAMS IN THE PROJECT AREA FOR CONNECTIONS TO SAME AND TO AVOID POSSIBLE INTERFERENCE.

DRAWINGS:

THE DESIGN DRAWINGS SHOW THE CLARITY ARRANGEMENT AND EXTENT OF THE WORK. THE DRAWINGS ARE DIAGRAMMATIC AND MAY NOT BE DRAWN TO SCALE IN CERTAIN AREAS FOR PURPOSES OF CLARITY AND LEGIBILITY. IT IS INTENDED THAT ALL APPARATUS BE LOCATED SYMMETRICAL WITH ARCHITECTURAL ELEMENTS AND BE INSTALLED TO AVOID OBSTRUCTIONS AND PRESERVE HEADROOM. THE CONTRACTOR SHALL REVIEW THE PLANS OF OTHER TRADES WITH HIS OWN WORK TO AVOID CONFLICTS AND INTERFERENCES; HE SHALL MAKE USE OF ALL SOURCES OF DATA, INCLUDING SHOP DRAWINGS AND DRAWINGS OF EQUIPMENT FURNISHED BY OTHERS.

ACCESS TO EQUIPMENT:

ALL CONTROL DEVICES, EQUIPMENT, DAMPERS, ETC., SHALL BE SO LOCATED SO AS TO PROVIDE FOR EACH ACCESS OF OPERATION, REPAIRS AND MAINTENANCE; IF CONCEALED, ACCESS PANELS OR EXTENDED OPERATORS SHALL BE PROVIDED.

SUPPORTS:

PROVIDE ALL SUPPORTS, FRAMING, ETC. FOR THE PROPER INSTALLATION OF PIPE, EQUIPMENT, ETC., FABRICATED FROM STRUCTURAL STEEL SHAPES AND TO PREVENT SAGGING, VIBRATION AND STRAIN, AND TO PROVIDE FOR EXPANSION AND CONTRACTION.

SYSTEM BALANCING:

THE VENTILATING SHALL BE TESTED AND BALANCED TO DEMONSTRATE THAT SPECIFIED CAPACITIES OF THE VARIOUS PARTS OF ALL SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS CAN BE MET AND ALL CONTROLS ARE FUNCTIONING PROPERLY.

GUARANTEE:

ALL MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, AND THE CONTRACTOR SHALL MAKE GOOD ANY DEFECTS WITHIN THAT PERIOD AT NO ADDITIONAL COST TO THE OWNER.

PLUMBING

ALL PLUMBING SYSTEMS ARE REQUIRED TO BE INSTALLED TO MEET MPC SECTIONS 309.1, 309.2. SUBJECT TO BUILDING OFFICIAL REVIEW AND APPROVAL.

SANITARY AND VENT PIPING:

ALL 2" AND LARGER PIPING ABOVE GROUND SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH NO-HUB FITTINGS.

ALL 1 1/2" AND SMALLER PIPING ABOVE GROUND SHALL BE GALVANIZED STEEL WITH THREADED BLACK CAST IRON DRAINAGE FITTINGS.

ALL PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH COMPRESSION TYPE FITTINGS.

OPTION: PIPE AND FITTINGS, SHALL BE PLASTIC PVC, TYPE DWV, PER: ASTM D2665. JOINTS SHALL BE PLASTIC PVC SOLVENT WELDED, PER: ASTM D2665.

CLEANOUTS AND ACCESS COVERS (CO):

PROVIDE CLEANOUTS AT THE FOOT OR BASE OF EACH VERTICAL WASTE OR SOIL STACK, IN DRAINAGE LINES AT ALL CHANGES IN DIRECTION AND AT 100'-0" INTERVALS HAVING NO CHANGES IN DIRECTION.

FLOOR DRAIN (FD-1)

ZURN NO. Z-415B-HD HEAVY DUTY FLOOR DRAIN, SIZED ON DRAWINGS, "DURA-COATED" CAST IRON BODY, WITH 6" DIA. POLISHED BRONZE GRATE, WITH FLUSHING CONNECTION. PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS PER CODE TO MAINTAIN TRAP WATER SEAL.

DOMESTIC WATER PIPING:

ABOVE GROUND: TYPE L, HARD TEMPER COPPER TUBE WITH WROUGHT COPPER FITTINGS AND NON-LEAD SOLDER JOINTS.

DOMESTIC WATER VALVES:

A. GATE VALVE: JENKINS 901-A BRONZE BALL VALVE, SCREWED ENDS, OR APPROVED EQUAL.

B. BALANCE VALVE: DEZURIK 427S BRONZE OR APPROVED EQUAL.

C. BACK FLOW PREVENTER 3/4 THROUGH 6 INCHES

1. BEECO, FEBCO, WATTS, CLA-VAL CO, CONBRACO.

D. WATER PRESSURE REDUCING VALVE

1. WATTS REGULATOR CO., A.W. CASH CORP., HONEYWELL BRAUKMAN, CONBRACO

FLUSHING AND STERILIZATION:

UPON COMPLETION OF WATER DISTRIBUTION PIPING SYSTEM AND PRIOR TO BEING PLACED INTO SERVICE, THE SYSTEM, INCLUDING FITTINGS AND PUMPS, SHALL BE FLUSHED AND DISINFECTED AS FOLLOWS:

A. SYSTEM SHALL BE FLUSHED WITH WATER AT MAXIMUM SYSTEM PRESSURE.

B. OPEN ALL DRAINS AND FIXTURE VALVES IN THE BUILDING, STARTING WITH THE VALVE NEAREST THE WATER SERVICE LINE AND PERMIT THE WATER TO RUN CLEAR FOR TEN (10) MINUTES.

C. DISINFECTING SHALL BE ACCOMPLISHED BY INTRODUCING LIQUID CHLORINE INTO THE SYSTEM.

D. THE CHLORINATION AGENT SHALL BE APPLIED AT THE BEGINNING OF THE WATER MAIN TO BE DISINFECTED.

PIPE INSULATION

INSULATION SHALL BE LOW PRESSURE MOLDED SECTION FIBROUS GLASS PIPE INSULATED WITH FACTORY-APPLIED ALL SERVICE JACKET. FITTINGS AND VALVE BODIES SHALL BE INSULATED WITH FIBROUS GLASS BLANKET BUILT-UP TO THE THICKNESS OF THE ADJACENT INSULATION AND SECURED WITH INSULATING TAPE AND JACKETED TO MATCH INSULATION, OR WITH MOLDED FIBROUS GLASS FITTINGS INSTALLED WITH BOTH LONGITUDINAL AND CIRCUMFERENTIAL JOINTS FULLY BUTTERED WITH PROPER ADHESIVE. LAPS SHALL BE FASTENED WITH OUTWARD CLINCHING STAPLES. ALL JOINTS SHALL BE PROPERLY LAPPED AND SEALED. STAPLES, HANGERS, ETC., SHALL NOT PENETRATE VAPOR BARRIER.

IN LIEU OF BUILT-UP INSULATION ON FITTINGS, ZESTON FITTING COVERS MAY BE USED.

ALL INSULATION SHALL BE CLASS A IN ACCORDANCE WITH ASTM STANDARD NO. E-84 NFPA NO. 255, AND UL STANDARD NO. 723 AS FOLLOWS:

APPROVED MANUFACTURES: ARMSTRONG CO., CERTAIN-TEED, JOHNS-MANVILLE CO., OWENS-CORNING FIBERGLAS.

ADA - CONFORMING WHEELCHAIR ACCESSIBLE ASSEMBLIES SHALL BE COVERED WITH AN UNDER SINK/LAVATORY PROTECTIVE PIPE COVER. COVER MUST ALLOW FOR ACCESS TO P-TRAP CLEAN-OUT AND ANGLE STOP VALVE.

PLUMBING FIXTURES

GENERAL

PROVIDE AND CONNECT ALL FIXTURES SHOWN ON THE DRAWINGS OR HEREIN CALLED FOR. ALL FIXTURES SHALL BE EQUAL IN ALL RESPECTS TO THE FIGURE/MODEL NUMBERS HEREINAFTER LISTED. FIGURE/MODEL NUMBERS ARE USED FOR ESTABLISHING A STANDARD. ALL FIXTURE TRIM SHALL BE BY ONE MANUFACTURER ONLY. NO MIXING OF TRIM OR FIXTURES WILL BE PERMITTED UNLESS OTHERWISE SPECIFIED.

WATER CLOSETS: FLUSH VALVE (WC)

ACORN R2100-W-1, STAINLESS STEEL, BLOWOUT JET, WALL MOUNTED, CONCEALED FLUSH VALVE, HIGH POLISH, INTEGRAL SEAT. INSTALL PER MFG. INSTALLATION MANUAL.

LAVATORIES - WALL HUNG (LAV)

ACORN 1953-1-DMS-04-M-GT-TPT-TE, STAINLESS STEEL, 18" X 22" ADA SINK, DECK MOUNTED SPOUT, AIR CONTROL, HOT & COLD METERING, GRID STRAINER W/1 1/4" TAILPIECE AND TUBULAR P-TRAP. INSTALL PER MFG. INSTALLATION MANUAL.

URINAL (UR)

ACORN PENAL-WARE1709HEU-W-1, STAINLESS STEEL, WALL OUTLET, CONCEALED FLUSH VALVE. INSTALL PER MFG. INSTALLATION MANUAL.

FLOOR SINK (SS)

MOP SINK 24" X 24" ZURN Z1996-09.215 A.04.07 WHITE MOP SERVICE BASIN WITH ZB43M1-RC FAUCET, DOME STRAINER, HOSE WITH BRACKET, MOP HANGER, STAINLESS STEEL WALL GUARDS AND STAINLESS-STEEL RIM GUARDS. WALL GUARDS TO BE INSTALLED ON ALL ADJACENT WALLS.

DRINKING FOUNTAIN (DF)

MURDOCK A171-UG-VR-BF12S, WALL MOUNTED, VANDAL-RESISTANT STAINLESS-STEEL FINISH, BOTTLE FILLING STATION AND BI-LEVEL DRINK FOUNTAINS.

MIXING VALVE

ACORN ST7069 THERMOSTATIC MIXING VALVE, TEMPERATURE ADJUSTING,

ELECTRIC WATER HEATER DWH-1

EEMAX TANKLESS ELECTRIC WATER HEATER MODEL # SPEX1812T,1.8 KW, 240 VOLTS, 1 PHASE.

MURDOCK A171-UG-VR-BF12S

HOSE BIBB:

ZURN NON-FREEZE WALL HYDRANT Z1333-C), ANTI-SIPHON WALL HYDRANT OR EQUAL.

SHEET METAL - GENERAL:

INSTALL DUCTWORK IN ADHERENCE TO CEILING HEIGHT SCHEDULES ON ARCHITECTURAL DRAWINGS. COORDINATE AND ESTABLISH NECESSARY SPACE REQUIREMENTS WITH OTHER TRADES SO AS TO MAINTAIN REQUIRED HEADROOM.

VARY RUN AND SHAPE OF DUCTS AND MAKE OFFSETS DURING PROGRESS OF WORK, IF REQUIRED, TO MEET STRUCTURAL OR OTHER INTERFERENCES WITHOUT EXTRA COST TO THE OWNER. ALL SHEET METAL SHALL BE BEST GRADE, PRIME SHEETS, OPEN HEARTH GALVANIZED STEEL, UNLESS OTHERWISE NOTED. DUCTS 19" AND OVER SHALL BE CROSS BROKEN OR BEADED.

AIR HANDLER UNIT AHU-1

MITSUBISHI MODEL NO. SZV-AP24NL INDOOR, VERTICAL, DUCTED UNIT, 375 CFM, HTG; 22 MBH BASED ON 5-DEGREE F AMBIENT, COOLING; 22 MBH TOTAL, 16.5 MBH SEN. BASED ON 95-DEGREE F AMBIENT, 80-DEGREE F DB/67-DEGREE F WB E.A.T., 230 VOLTS, 1 PHASE, MOP 15.

AIR COOLED HEAT PUMP HP-1 SERVING AHU-1

MITSUBISHI MODEL NO SUZ-24NL OUTDOOR UNIT, 230 VOLTS, 1 PHASE, MCA 24, MOP 40, UNIT MOUNTED DISCONNECT, AMBIENT COOLING -13 DEG. F TO 95 DEG. F.

DUCTWORK:

DUCT CONSTRUCTION: ALL DUCTWORK SHALL BE CONSTRUCTED AND SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST SMACNA'S ISSUE OF "2" W.G. PRESSURE CONSTRUCTION STANDARDS". PROVIDE JOINTS FOR RECTANGULAR DUCTS AS CALLED FOR BY STANDARDS. "BUTTON PUNCH-SNAP LOCK" SHALL NOT BE USED. SEAL ALL TRANSVERSE JOINTS WITH 3M EC-800 COMPOUND AND TAPE WITH 3M 474 TAPE.

FOR ROUND AND OVAL DUCT, SLIP JOINTS SHALL BE USED ON DUCTS UP TO 36-INCH DIAMETER. APPLY 3M EC-800 SEALER TO FITTINGS AND CONNECTORS WHILE ASSEMBLING. SECURE JOINT WITH SHEET METAL SCREWS, APPLY SEALER OVER OUTSIDE OF JOINTS AND SCREWS. APPLY 3M 474 TAPE TO WET JOINT. ALTERNATE METHOD OF SEALING WITH SLIP JOINTS IS WITH THERMOFIT PLASTIC BANDS. SECURE JOINT WITH SHEET METAL SCREWS. INSTALL BAND A SHRINK PER MANUFACTURER'S RECOMMENDATIONS. USE ON DUCTS UP TO 36 INCHES IN DIAMETER.

DUCT HANGERS AND SUPPORTS:

ALL DUCT HANGERS, SUPPORTS AND SPACING FOR ROUND AND RECTANGULAR DUCTWORK SHALL CONFORM TO THE LATEST SMACNA STANDARDS, UNLESS OTHERWISE INDICATED.

GRILLES

(CD) CEILING DIFFUSER PRICE ASPD, 12" X 12" MODULE, STEEL, LAY-IN. SEE DWG. FOR NECK SIZE (NK).

(RG) RETURN GRILLE, PRICE \$350, 1/2" LOUVER SPACING. SEE DWGS. FOR NECK SIZE.

(ER) EXHAUST REGISTER, PRICE \$350, 1/2" LOUVER SPACING WITH VOLUME DAMPER. SEE DWGS. FOR NECK SIZE.

EXHAUST FAN EF- 1

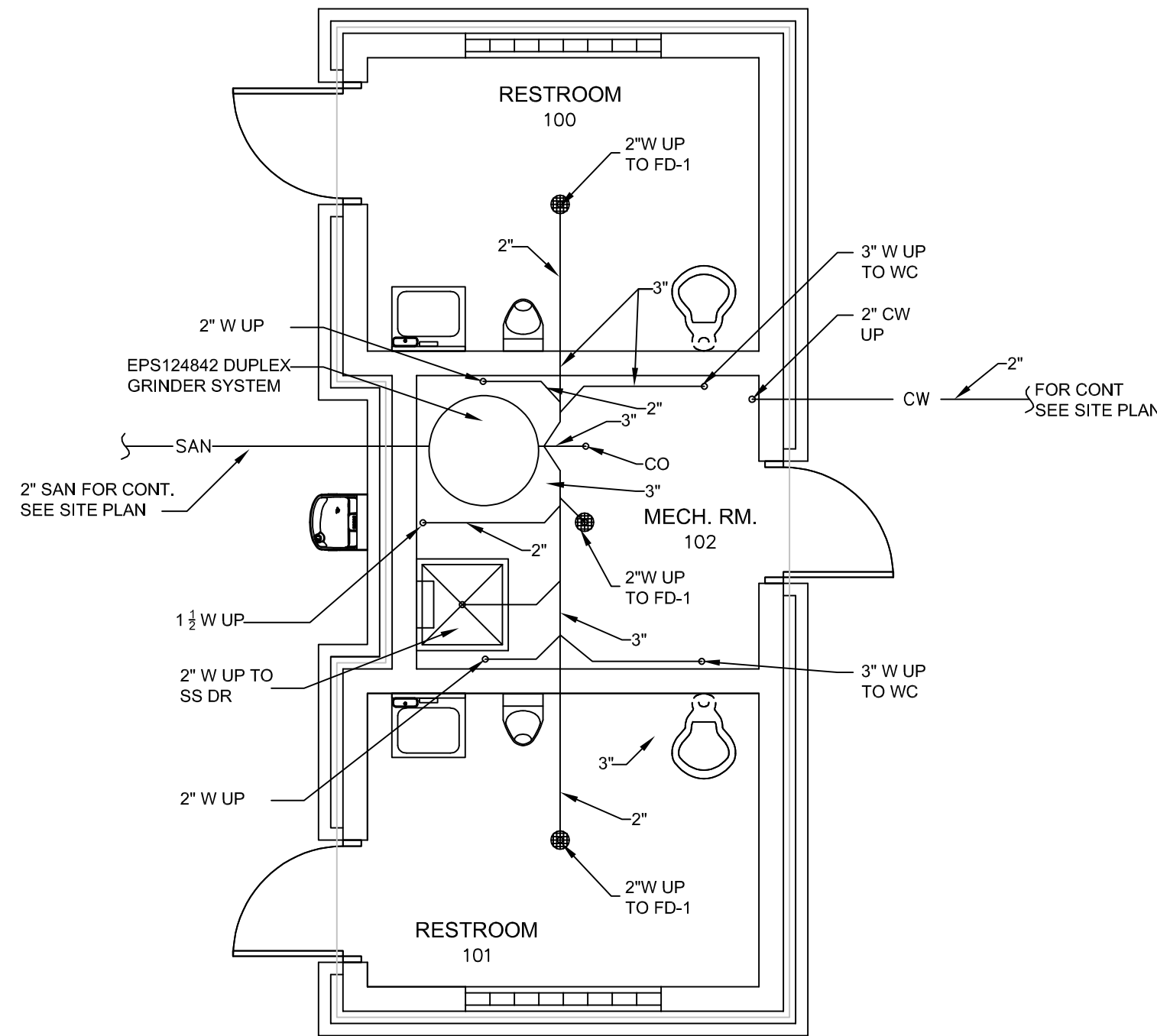
GREENNECK SP-90, CEILING MOUNTED, 75 CFM @ 1/4" S.P., .65 AMPS, 115 V, 1 PHASE. EXHAUST FAN SHALL RUN CONTINUOUSLY.

ENERGY RECOVERY VENTILATOR ERV-1

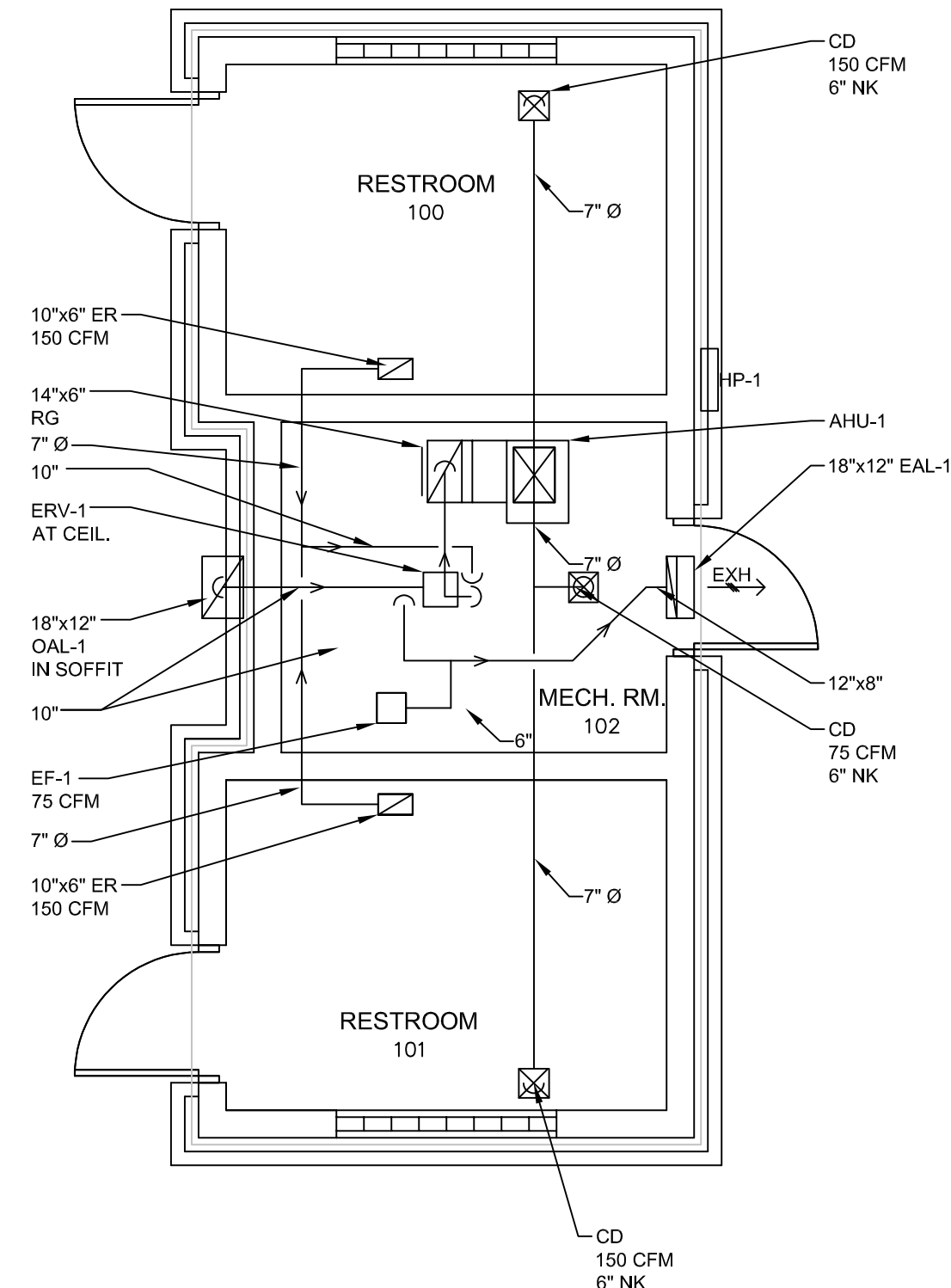
RENEW AIRE PREMIUM X, 375 CFM @ .375" S.P., TOTAL EFF SUMMER/WINTER 68%/54%, 120 VOLTS, 1 PHASE, 33 FLA WITH SPEED CONTROL. UNIT HOUSING SHALL BE INSULATED WITH 1/2" INSULATION. OUTDOOR AIR AND EXHAUST AIR DISCHARGES SHALL HAVE INTEGRAL BACKDRAFT DAMPERS. OUTDOOR AIR RETURN SHALL BE FILTERED WITH A MERV 13 DISPOSABLE FILTER. VENTILATOR SHALL RUN WHEN REST ROOM LIGHTS ARE ACTIVATED.

OUTSIDE AIR INTAKE LOUVER OAL-1 & EXHAUST AIR LOUVER EAL-1

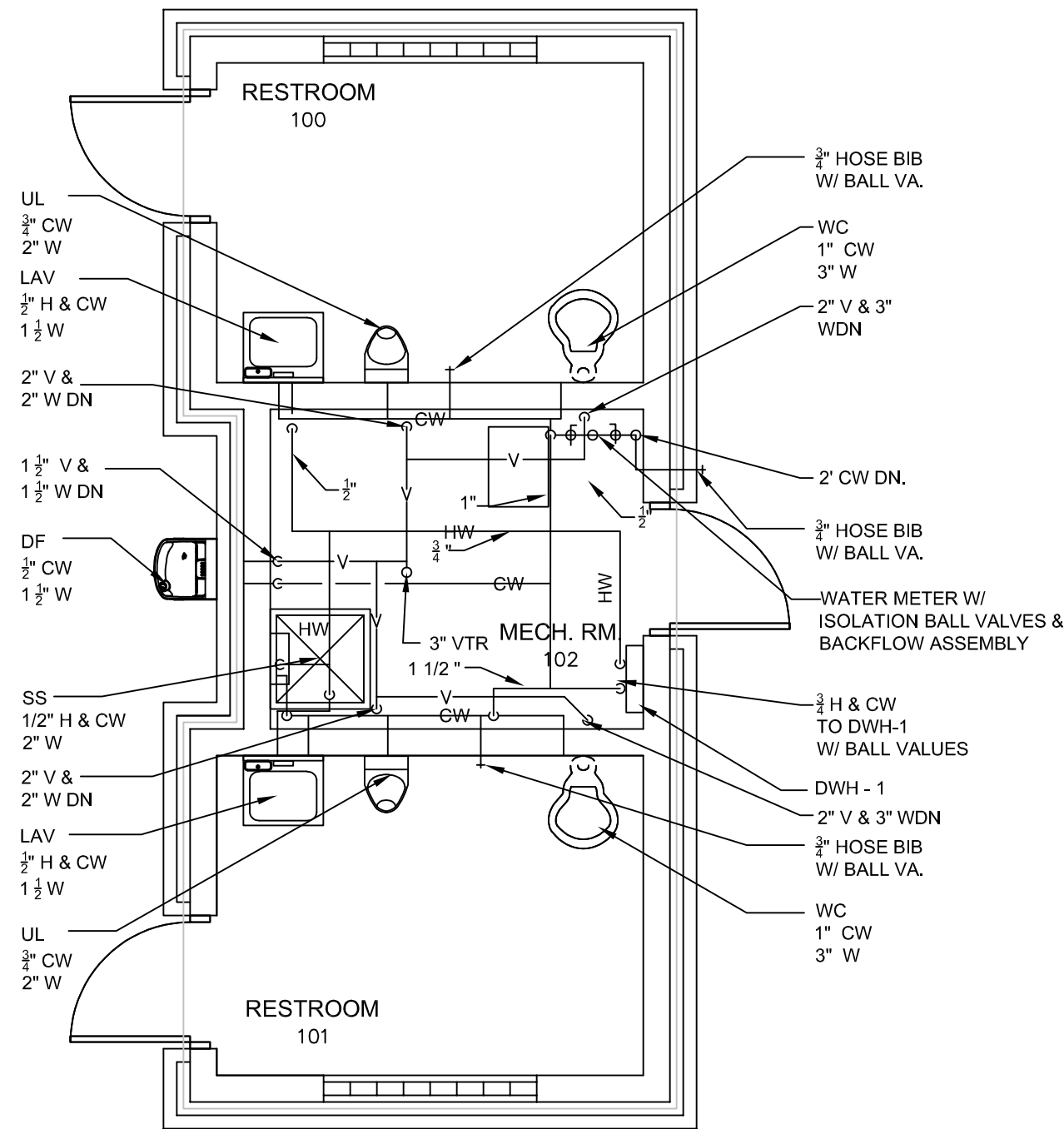
GREENNECK ESD-435, 18" X 12" DRAINABLE BLADE LOUVER WITH BIRD SCREEN, .54 SQ. FT. FREE AREA.



FLOOR PLAN - UNDERGROUND PLUMBING
SCALE: 1/4"=1'-0"



FLOOR PLAN - HVAC
SCALE: 1/4"=1'-0"



FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"



ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES

06/19/2026 03/23/2026	BID ISSUE OWNER REVIEW
DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	

ST. CLAIR TRAIL HUB
PALMER PARK

SHEET TITLE:

MECHANICAL AND
PLUMBING PLANS

CLIENT:

ST. CLAIR

☒ PRELIMINARY	☐ CONSTRUCTION	☐ RECORD
DRAWN BY: SPK	CHECKED BY: JRA	DATE: JUNE 2026
SCALE:		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

0186-0282

W:\1811\0282\0282\CONSTRUCTION\ARCHSHEET\PRIGATION\EQUIPMENT.DWG
M101-461992026 1:38:35 PM

SHEET NO.

M101

COPYRIGHT, 2026, ANDERSON, ECKSTEIN AND WESTRICK, INC.



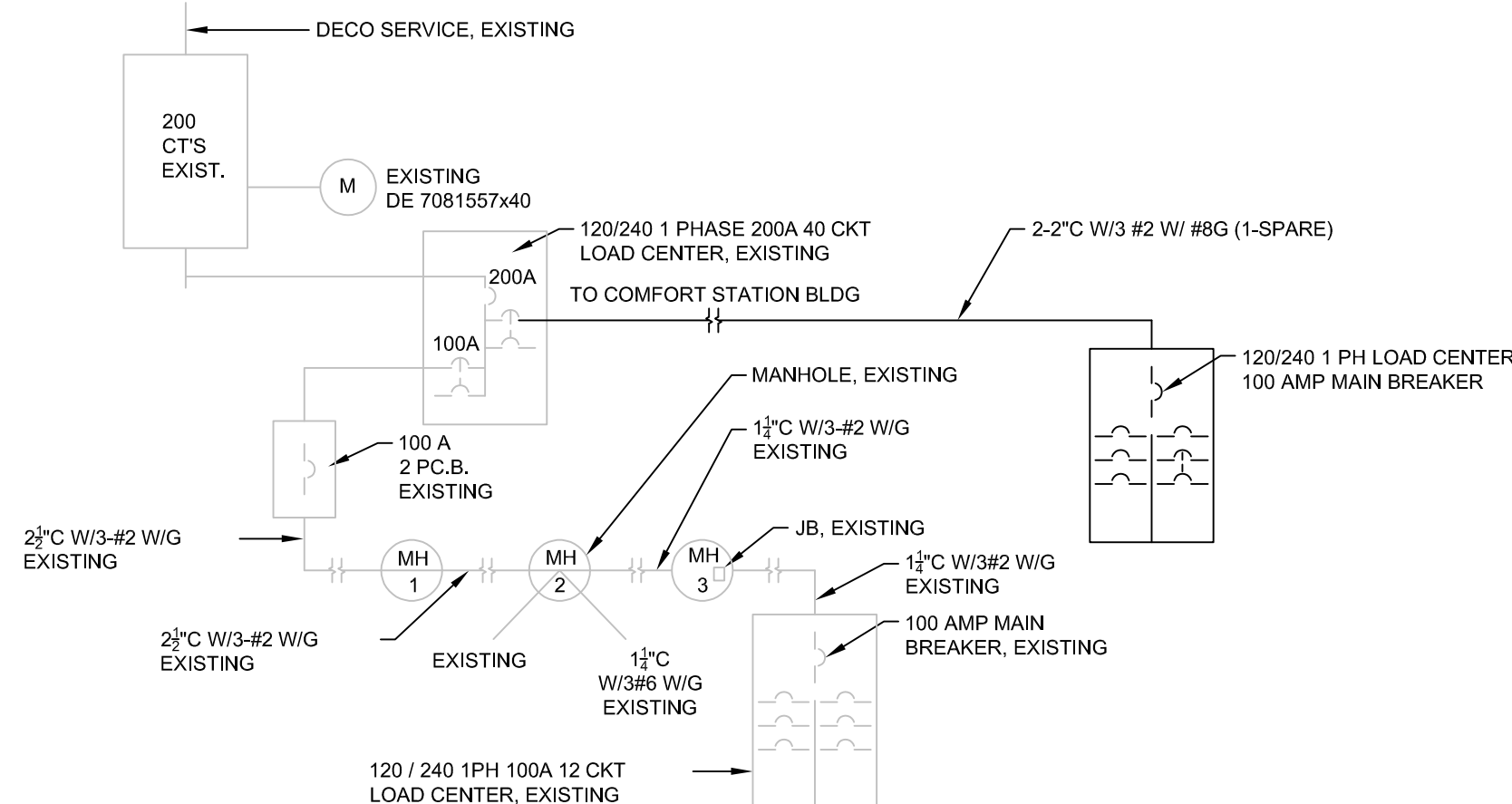
ENGINEERING STRONG COMMUNITIES

SYMBOL	TYPE	LAMP	MTING HEIGHT	DESCRIPTION	MANUFACTURER
		TYPE			
		LED 5000 LM 4000K 82CRI 25W	S	48"L X 3.5"D X5.5"W CEILING MOUNTED INTERIOR LED LUMINAIRE. DIE FORMED WITH HINGED LENS HOUSING. ACRYLIC LENS WITH TAMPER PROOF SCREWS. 0-10V LED DRIVER. SQUARE SMOOTH LENS,4000K,DIMMING TO 10%, 120 VOLT OPERATION.	1. LITHONIA BLWP--SERIES 2. COOPER LIGHTING 3. COLUMBIA LIGHTING
		LED 5554 LM 4000K 46W	S	13- 3/4"W X 10"D X 6- 3/8" HEIGHT WALL MOUNTED EXTERIOR LED LUMINAIRE. TWO PIECE DIE CAST ALUMINUM HOUSING. CORROSION RESISTANT POWER COAT FINISH, IP65 CERTIFIED. LED DRIVER. VANDAL GUARD. 20 LED'S (TWO ENGINES),DARK BRONZE COLOR. MVOLT. 4000K, FORWARD THROW DISTRIBUTION.	1. LITHONIA D--SERIES SIZE 1 2. COOPER LIGHTING 3. COLUMBIA LIGHTING

ELECTRICAL KEYED NOTES

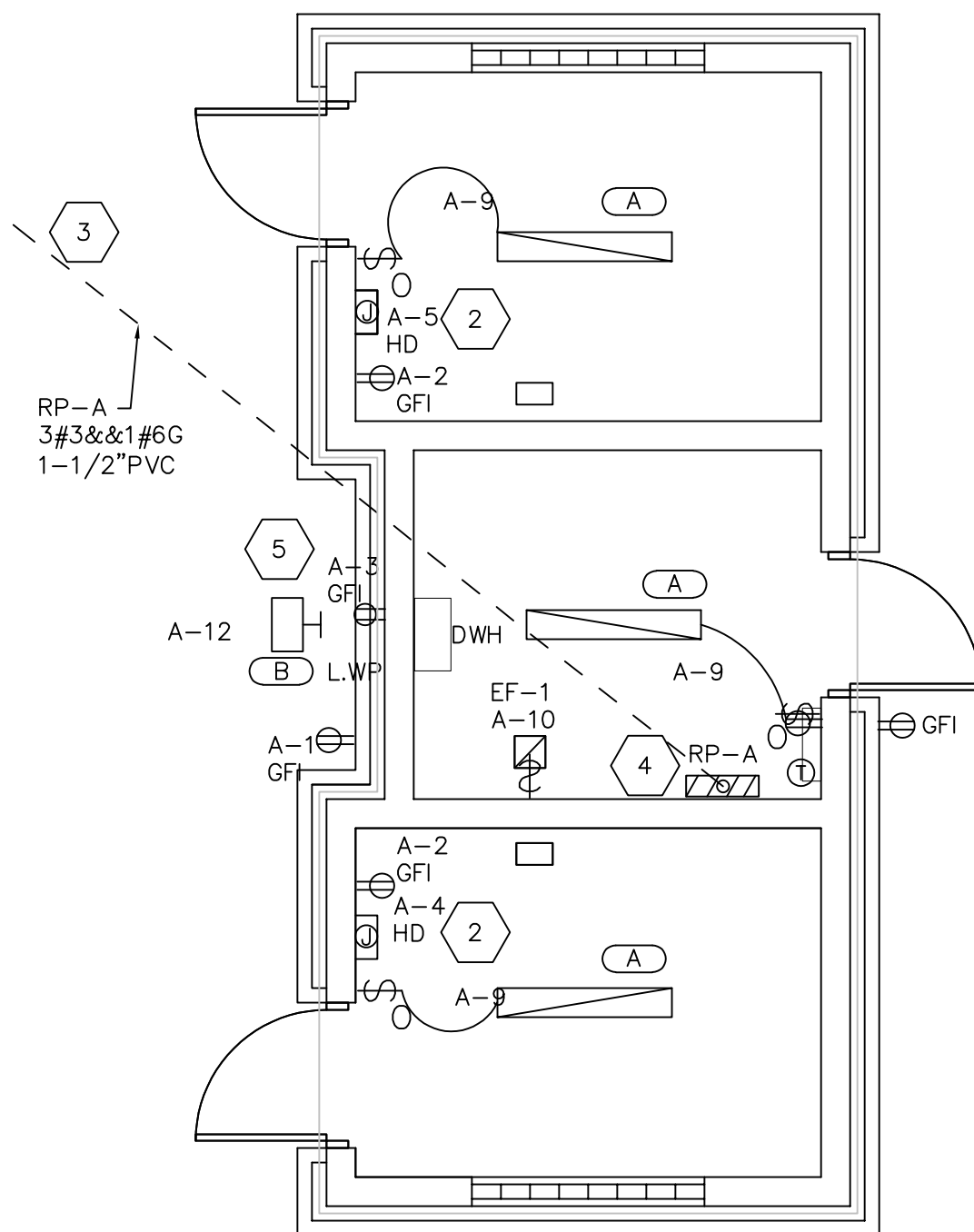
1. NEW HAND DRYER (HD) TO BE HARDWIRED, CONNECT TO CIRCUIT SHOWN, MOUNT AT 54" AFF TO CENTER OF UNIT. HD TYPE TO BE SELECTED BY ARCHITECT.
2. PROVIDE UNDERGROUND FEEDER 24" BELOW GROUND (SIZE AS SHOWN) TO EXISTING PANEL APPROXIMATELY 65FT AWAY. REFER TO SHEET "C3" FOR LOCATION. CONNECTED TO EXISTING 100A 2P CIRCUIT BREAKER IN EXISTING OUTDOOR PANEL.
3. CONNECT OUTDOOR/BUILDING LIGHTS THROUGH PHOTOCELL SWITCH TO BE MOUNTED ON BUILDING DIRECTED NORTH. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

			Connecte d	Connecte d					
Bkr Num	Item	Breaker	Volt-Amps	Volt-Amps	Breaker	Item	Bkr Num		
1.0000	AHU/HP	2 Pole	2880.0000						
			1440.0000		1P 20A	Grinder	2.0000		
3.0000	AHU/HP	40A		2880.0000					
				1440.0000	1P 20A	Grinder	4.0000		
5.0000	DWH	2 Pole	900.0000						
			1248.0000		1P 20A	Hand Dryer	6.0000		
7.0000	DWH	15A		900.0000					
				1248.0000	1P 20A	Hand Dryer	8.0000		
9.0000	Lights	1P 20A	900.0000						
			60.0000		1P 15A	Water Fountain	10.0000		
11.0000	EF-1	1P 15A		78.0000					
				800.0000	1P 20A	Receptacles	12.0000		
13.0000									
							14.0000		
15.0000									
							16.0000		
			7428.0000	7346.0000					
			62	61					
		Connecte d	Demand						
	Lights	900.0000	1125.0000						
	Receptacles	800.0000	800.0000						
	Misc	4356.0000	4806.0000						
	Motors	8718.0000	10158.0000						
		14774.0000	16889.0000						
		62	70						
Tankless Water Heater*			120V 1800 kw		15 Amps	2x900	Model SPEX1812T		
Grinder Pump			120V 1HP		12 Amps	2 x 1440	Model PRG101A		
AHU/HP*			240V 24MCA		40 Amps	2x2880	Model SUZ-AA24NL/ SZV-AP24NL		OUTDOOR/INDOOR
Drinking Fountain			120V 9v xfmr		60 watts	60.0000	A171-UG-VR-BF12S		
Hand Dryer			120V		10.4 Amps	2 x 1248	0135-1		
EF-1			120V		.65 Amp	78.0000	Model GREENHECK SP-90		
Receptacles			120V		900	900.0000	3 indoor, 2 outdoor		
Lights*			120V		140.0000	140.0000	3 indoor, 1 outdoor	3-30.50	
* Items that are considered continuos (greater than 2 hours)									



ELECTRICAL RISER DIAGRAM

EXISTING TO REMAIN U.N.O



 FLOOR PLAN - PLUMBING

SCALE: 1/4"=1'-0"



06/19/2026 03/23/2020	BID ISSUE OWNER REVIEW
DATE	SUBMITTALS/REVISIONS

PROJECT NAME

ST. CLAIR TRAIL HUB PALMER PARK

SHEET TITLE

ELECTRICAL PLAN

CLIENT:

ST. CLAIR

☒	PRELIMINARY	☐	CONSTRUCTION	☐	RECORD
DRAWN BY:		CHECKED BY:		DATE:	
SPK		JRA		JUNE 2026	
SCALE:					



Know what's below. Call 800-4-A-FOOTING. 72 hours before you dig.

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION, VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH THAT UTILITY).

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

0186-0282

M:\0188\0188-0282\CAD\DRAWINGS\CONSTRUCTION\ARCH\ARCHSHEETS_IRRIGATION EQUIPMENT.DWG
E101-6/19/2026 1:38:07 PM

SHEET NO.

E101

COPYRIGHT, 2026, ANDERSON, ECKSTEIN AND WESTRICK, INC.