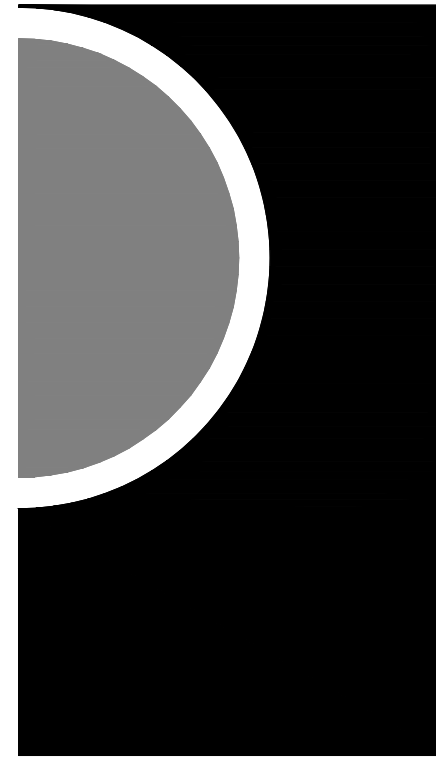


Hamtramck Public Schools

Kosciuszko Middle School

2333 Burger St., Hamtramck, MI 48212

PARTNERS



Architect:

PARTNERS in Architecture, PLC

65 Market Street
Mount Clemens, MI 48043
586-469-3600

Structural Engineer:

IMEG

33533 W. Twelve Mile, Suite 200
Farmington Hills, MI 48331
(Phone) 248-344-2800

Owner:

Hamtramck Public Schools

3201 Roosevelt St.
Hamtramck, MI 48212
(Phone) 313-872-9270

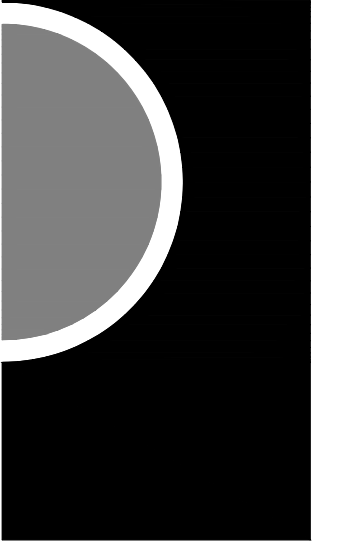
Mechanical / Electrical Engineer:

Peter Basso Associates Inc.

5145 Livernois, Suite 100
Troy, MI 48098
(Phone) 248-879-5666

Sheet Number	Sheet Title
A0-00	Cover Sheet
Architectural	
A0-01	General Information Sheet
A0-02	Composite Floor Plans
A1-01	Lower Level Demolition Plan
A1-02	Upper Level Demolition Plan & Elevation
A3-01	Lower Level Floor Plan
A3-02	Upper Level Floor Plan & Elevation
A5-10	Building Sections
A6-01	Wall Sections
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Structural	
S0.00	General Structural Notes
S0.01	Structural Inspection Schedules
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S2.01	Partial Foundation Plan
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S3.00	General Sections And Details
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Mechanical	
M0-01	Mechanical Standards & Drawing Index
MD2-01	Lower Level Mechanical Demolition Plan
MD2-02	First Level Mechanical Demolition Plan
M2-01	Lower Level Mechanical Plan
M2-02	First Level Mechanical Plan
M7-01	Mechanical Details & Schedules.

PARTNERS



PARTNERS in Architecture, PLC

65 MARKET STREET
MOUNT CLEMENS, MI 48043
P 586.469.3600

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LOCATION MAP

NORTH



OWNER

Hamtramck Public Schools

PROJECT NAME

Kosciuszko Middle School Structural Repairs

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.

21-167

ISSUES / REVISIONS

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SHEET NAME

COVER SHEET

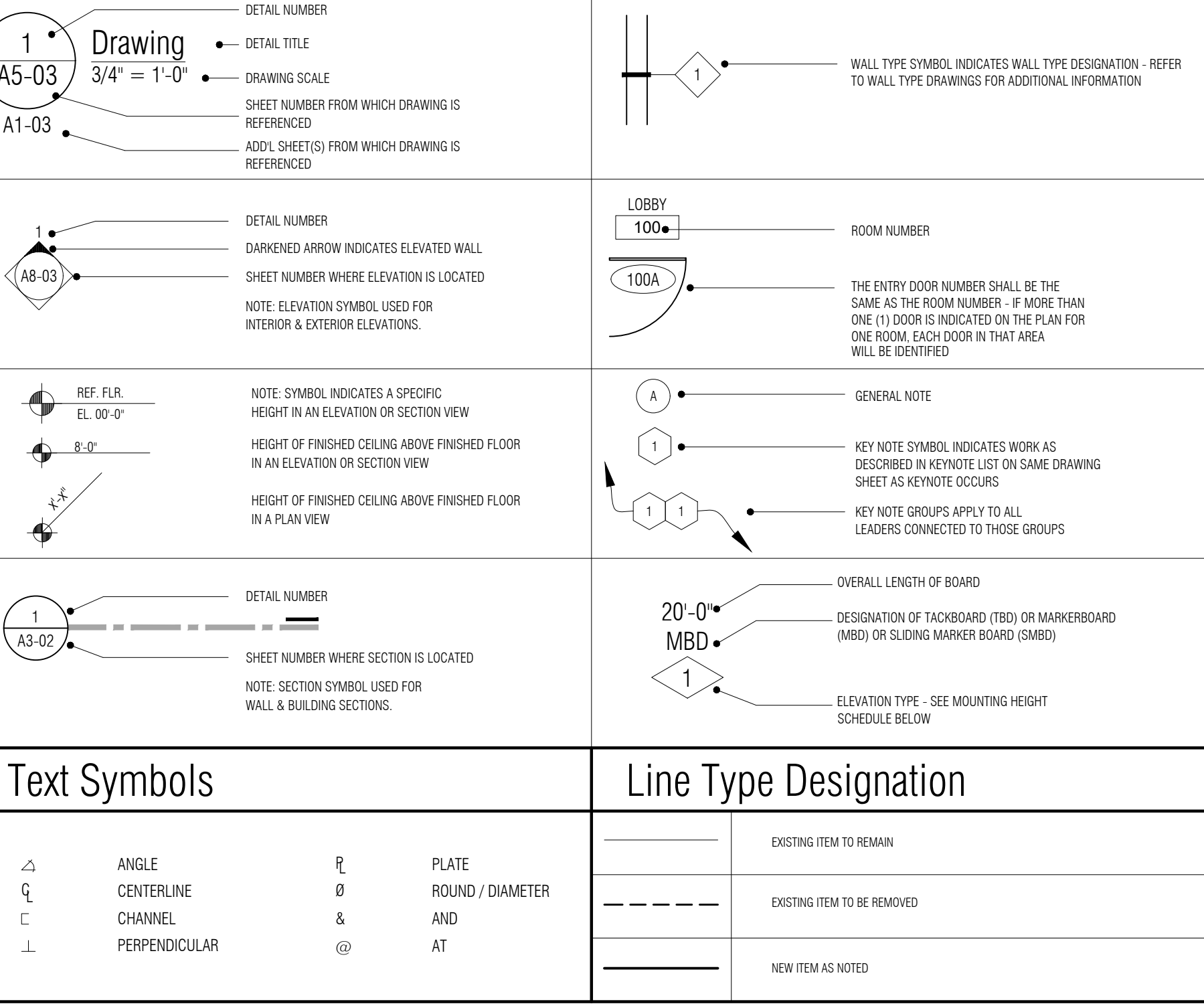
SHEET NO.

A0-00

Abbreviations

A	AFF ABOVE FINISHED FLOOR ARF ABOVE REFERENCE FLOOR ACCT ACCESS AP ACCESS PANEL AC ACUSTICAL ACT ACUSTICAL TILE (OR ACTIVE) ADD ADDENDUM ADDL ADDITIONAL ADJ ADJUNCT AGG AGGREGATE A/C AIR CONDITIONING ALT ALTERNATE OR ALTERNATIVE ALUM ALUMINUM ANCH ANCHOR, ANCHORAGE ANCH ANCHOR BOLT ANOD ANODIZED ARCH ARCHITECTURAL ASPH ASPHALT AUTO AUTOMATIC	F	FWP FABRIC WRAPPED PANEL FB FACE BRICK FCC FACE OF CONCRETE FF FACTORY FINISH FS FAR SIDE FCT FLOOR COVERING FET FEET/FOOT FIN FINISHED FEL FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FVC FIRE VALVE CABINET FLD FLOOR FHS FIRE HOSE STATION FPR FIRE PROOFING FLO FLOORING FDL FLOOR DRAIN FNS FLOUORESCENT FOT FOOTING FND FOUNDATION FPA FRESH AIR FRA FULLY ADRESSED FRR SHEET ROOFING SYSTEM FURS FUR	M	MAG MAGNETIC MH MANHOLE MFR MANUFACTURER MAR MARBLE MAR T. MARBLE THRESHOLD MARB MARBLE BOARD MAS MASONRY MO MASONRY OPENING MAT MATERIAL MAX MAXIMUM MECH MECHANICAL MED MEDICINE CABINET MEM MEMBER MEMB MEMBRANE MET METAL MDS METAL DIVIDER STRIP ML METAL LATH MET T. METAL THRESHOLD MEZZ MEZZANINE MLL MILLIMETER(S) MIN MINIMUM MIR MIRROR MIS MISCELLANEOUS MISC MISCELLANEOUS IRON MON MONUMENT MCC MOTOR CONTROL CENTER MTD MOUNTED, (ING) MULL MULLION	R (CONT.)	RD ROOF DRAIN RS ROOF SCAP RFG ROOFING RM ROOM RO ROUGH OPENING RUB RUBBER RUB RUBBER BASE (OR RESILIENT BASE)
B	B.F. B.F. BEARING BRM BEARING BSM BENCH MARK OR BEAM BTW BETWEEN BIT BITUMINOUS BLK BLOCKING BR BRICK BS BOTH SIDES BOT BOTTOM BC BOTTOM OF CURB BRK BRICK BLDG BUILDING BL BUILDING LINE	G	GAL GAGE GAUGE GAL GALLON GALV GALVANIZED GLZ GLASS GLAZING GRD GRADE, GRADING GR BOARD GND GROUND GYP GYPSUM GYP LATH GYPSUM LATH GYP PL GYPSUM PLASTER GWB GYPSUM WALL BOARD	N	NAT NATURAL NCA NATURAL COLOR ANODIZED NEG NEGATIVE NR NOISE REDUCTION NRC COEFFICIENT OF NOISE REDUCTION NONCOMB NONCOMBUSTIBLE NOM NOMINAL NORTH NORTH NA NOT APPLICABLE NIC NOT IN CONTRACT NIS NOT TO SCALE NO (#) NUMBER	S	SAN SANITARY SAN DISP SANITARY NAPKIN DISPENSER MFC MEDICINE CABINET MED RECEPTACLE SCH SCHEDULE SCJ SCORED JOINT SCAL SEALED CONCRETE SEAL SECTION SSE SERVICE SINK SHT SHEET SLO SHORT LEG OUTSTANDING SMILR SIMILAR SNG STAGGERED SPR SPREADER SPR STAGGERED(S) SPEC'D SPECIFIED SQ SQUARE SQ FT SQUARE FOOT (OR STOREFRONT) SQ YD SQUARE YARD (OR STOREFRONT) STAG STAGGERED STG STAG STD STANDARD STN STATION STL STEEL STN STONE STR STORAGE STRM STORM DRAIN ST STREET STR STRUCTURAL SUPPLY SUPPLY AIR SUPP SUPPORTS SUSP SUSPENDED SW SWITCH SWB SWITCHBOARD SWG SWITCHGEAR SYM SYMMETRICAL
C	CABT CABINET CRD CARD READER CPT CARPETED CES CARPET EDGE STRIP CST CAST IRON CIP CAST IN PLACE CIB CATCH BASIN CLG CEILING CEN CENTER C TO C CENTER TO CENTER C' CENTER C' DEGREES (CENTIGRADE) CER CERAMIC CT CERAMIC TILE CHN CHANNEL CHK PL CHECKERED PLATE CL CLEARANCE CLS CLOSURE CO CLEAN OUT COAT COAT HOOK CW COLD WATER COL COLUMN COMB COMBINATION COMP COMPRESSED (AIR, ETC.) CONC CONCRETE CONC CONCRETE CMU CONCRETE MASONRY UNIT (CONCRETE BLOCK)	H	HDCP HANDICAPPED HDB HARDBOARD HDE HARDWARE HWD HARDWOOD HTG HEATING H&V HEATING & VENTILATING HVAC HEATING/VENTILATING/AIR CONDITIONING HT HEIGHT H HIGH HP HIGH POINT HS HIGH STRENGTH HC HOLLOW CORE HOP HOLLOW METAL HORZ HORIZONTAL HP HORSE POWER HOB HOSE BIB HW HOT WATER HWH HOT WATER HEATER HR HOUR	O	OFF OFFICE OC ON CENTER(S) OPG OPENING OPP OPPOSITE OPH OPPOSITE HAND ORIG ORIGINAL OS OUTSIDE OS OUTSIDE AIR OD OUTSIDE DIAMETER OH OVERHEAD	T	TACK TACKBOARD TAN TANGENT POINT TEL TELEPHONE TEV TELEVISION TEMP TEMPERATURE, TEMPERED TERR TERRAZZO TERR TERRAZZO TILE THERM THERMOSTAT THK THICKNESS THR THRESHOLD THRU THROUGHOUT TILE TILE TOL TOLERANCE T&G TONGUE AND GROOVE T&B TOP & BOTTOM TOP TOP OF CONCRETE TOP OF CURB TOP OF STEEL TOW TOWEL & WASTE CABINET TRN TRANSFORMER TRD TREAD TYP TYPICAL
D	DPR DAMPER DF DAMPROOFING DL DEAD LOAD DET DETAIL DMS DIAGONAL DIA DIAMETER DIF DIFFUSER DIM DIMENSION DOW DISHWASHER DOOR DOOR OPENING DN DOWN DT DRAIN TILE DNG DRAWING DF DRINKING FOUNTAIN	J	JC JANITOR'S CLOSET JT JOINT JST JOIST JB JOINT BOX	P	PH PHYSICALLY HANDICAPPED PT PAINTED (OR PRINT) PAIR PAIR PNE PANEL PTD PAPER TOWEL DISPENSER PTD/P PAPER TOWEL DISPENSER & RECYCLING COMBINATION PKG PARKING PRD PARTICLE BOARD PART PARTITION PE PASSENGER ELEVATOR PERM PERMANENT PLAS PLASTER PL PLASTIC LAMINATE PLATE PLATE PLUMB PLUMBING PLYWOOD PLYWOOD POL POLISHED PVC POLY(VINYL CHLORIDE) POUNDS POUNDS P/CF POUNDS PER CUBIC FOOT P/FF POUNDS PER FOOT P/FF POUNDS PER LINEAL FOOT P/CF POUNDS PER SQUARE FOOT P/CF PRECAST CONCRETE P/CF PREFABRICATED P/CF PRESERVATIVE TREATED WOOD	U	UH UNIT HEATER UON UNLESS OTHERWISE NOTED URN URINAL
E	EA EACH EF EACH FACE EW EACH WAY E EAST ELEC ELECTRICAL EWC ELECTRIC WATER COOLER EL ELEVATION ELEV ELEVATOR EMER EMERGENCY ENC ENCLOSED, (URE) EPOXY EPOXY EQ EQUAL EQUIP EQUIPMENT ESC ESCALATOR EPM ETHYLENE PROPYLENE DIENE MONOMER EXH EXHAUST EB EXPANSION BOLT EJ EXPANSION JOINT EXP CONST EXPOSED CONSTRUCTION EXT EXTERIOR ETR EXISTING TO REMAIN	K	KILOGRAMS KILOGRAMS KILOWATT KILOWATT KILOWATT-HOUR KILOWATT-HOUR KILOGRAM PER METER KILOGRAM PER METER KILOGRAM PER SQUARE KILOGRAM PER SQUARE K POUNDS PER SQUARE INCH KITCHEN KITCHEN KNOCKOUT KNOCKOUT	Q	QT QUARRY TILE QTB QUARRY TILE BASE QTR QUARTER	V	VA VALVE VAP VAPOR BARRIER VAR VAPOR RETARDER VERT VERTICAL VEST VESTIBULE VINYL VINYL VINYL VINYL COMPOSITION TILE VINYL TILE VINYL TILE VINYL WALL COVERING VINYL WALL COVERING VIT VITREOUS VRS VINYL RESILIENT STRIP
F	FABRIC WRAPPED PANEL FACE BRICK FACE OF CONCRETE FACTORY FINISH FAR SIDE FLOOR COVERING FEET/FOOT FINISHED FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE VALVE CABINET FLOOR FIRE HOSE STATION FIRE PROOFING FLOORING FLOOR DRAIN FLOUORESCENT FOOTING FOUNDATION FRESH AIR FULLY ADRESSED SHEET ROOFING SYSTEM FUR	L	LAB LABORATORY LAM LAMINATED LAV LAVATORY LOC LEAD COATED COPPER LH LEFT HAND LHR LEFT HAND REVERSE LEN LENGTH LGT LIGHT LGT LIGHTING LGP LIGHTING PANEL LIN LINEAR LNS LINEAR SUSPENDED WOOD CEILING LW LOAD LNG LONG LNG LONG LEG BACK LNG LONG LEG HORIZONTAL LNG LONG LEG OUTSTANDING LNG LONG LEG VERTICAL LOC LOCATE LOCATION LW LOW VOLTAGE	R	RAD RADIUS RAD RADIATOR, RADIATION RC RAINWATER CONDUCTOR REC READING REC RECESSED REF REFERENCE REF REFLECTED, (IVE), (OP) REF REFLECTOR REG REGISTER REIN REINFORCED, (ING) REQ REQUIRED RES RESILIENT RES RESILIENT TILE RET RETURN REV REVISIONS, REVISED RH RIGHT HAND RHR RIGHT HAND REVERSE ROW RIGHT OF WAY R RISER RD ROAD	W	WAN WANGCOAT WH WALL HORIZONTAL WH WATER HEATER WC WATER CLOSET WM WATER MAIN WP WATERPROOFING WR WATER RESISTANT WT WEIGHT WVF WELDED WIRE FABRIC WV WELDED WIRE MESH WV WIDTH, WIDE, WEST W WITH WO WITHOUT WO WOOD Y YARD

Graphic Symbols



Material Poche Indications

CONCRETE (SECTION)	GYPSUM WALL BOARD	WOOD/SOLID SPECIES (FINISH MATERIAL) (NOTE MATERIAL)
CONC. STONE PLASTER (ELEVATION) (NOTE MATERIAL)	PLASTER GYPSUM/CEMENTITIOUS ON METAL LATH (NOTE MATERIAL)	WOOD (CONTINUOUS BOCKING)
STONE (MARBLE, STONE) (GRANITE, ETC.) (SECTION/ELEVATION) (NOTE MATERIAL)	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. / MASONRY BLOCK (CONCRETE BLOCK)	CARPET
	SOLID BLOCK BLOCK GROUPED SOLID	INSULATION ACOUSTIC/THERMAL (NOTE TYPE)
	BRICK	BATT OR BLANKET
	STEEL/COPPER, METAL, ALUMINUM, ETC. (NOTE MATERIAL)	

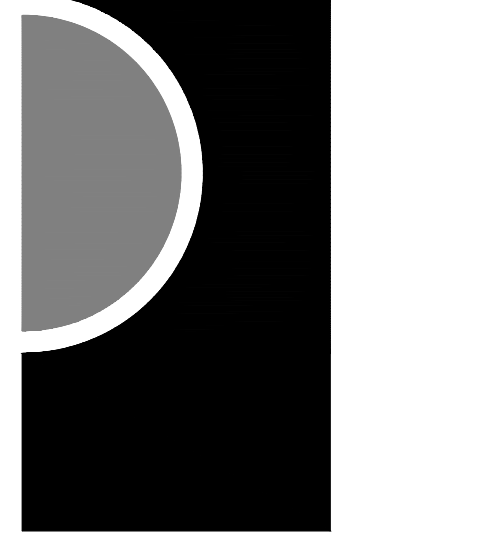
Mounting Height Schedule

WALL MOUNTED ACCESSORIES			
W1 B.F. TELEPHONE 48" MAX. FRONT APPROACH 54" MAX. SIDE APPROACH 27" MIN.	W2 FIRE EXTINGUISHER CABINET VARIES 48" B.F. 64" H	W3 FIRE VALVE CABINET VARIES 60" H	W4 FIRE HOSE RACK and FIRE EXTINGUISHER WALL BRACKET 60" H
W5 KEY SWITCH or PUSH BUTTON 48" B.F.	W6 FIRE ALARM PULL BOX Visual/Audible Alarm 48" B.F. 80" H	W7 LOUD SPEAKER 60" H	W8 SIGNAGE ROOM NAME 60" H Text, Graphic, and Size to be approved by Architect
W9 CARD READER 60" H	W10 ELEVATOR HALL LANTERN 72" MIN. TO CEIL. 48" H	W11 FIRE EXIT SIGN at ELEVATORS 4" H 18" STD.	W12 ELECTRIC PANEL 6" MIN. CLR. 60" H
W13 ELEVATOR CALL BUTTON / SIGNAGE 60" H	W14 ELEVATOR HALL LANTERN 72" MIN. TO CEIL. 48" H	W15 FIRE EXIT SIGN at ELEVATORS 4" H 18" STD.	W16 ELECTRIC PANEL 6" MIN. CLR. 60" H
W17 EXIT LIGHT and CLOCK 6" MIN. CLR. 48" H	W18 TYPICAL WALL ITEM ALIGNMENT 4" MIN 16" MAX	W19 CUP and FACIAL TISSUE DISPENSER 4" H 40" B.F.	W20 HOOKS 4" H 40" B.F.

PLUMBING FIXTURES and TOILET ACCESSORIES

PLUMBING FIXTURES and TOILET ACCESSORIES				
P1 WATER CLOSET Flush Valve shall face open side of stall. 36" MAX 17-19" BF (SEAT HT.) 1-1/2" STD	P2 URINAL 44" MAX 24" STD 1-1/2" BF	P3 WALL MOUNTED LAVATORY 34" MAX BF 29" MIN. BF 27" MIN. BF 18" MIN. 8" MIN.	P4 HI-LOW / DRINKING FOUNTAIN 38" MAX SPOUT 39" MIN.	P5 Coordinate Flush Valve Access Panel and Toilet Paper Dispenser with grab bar per codes 36" MIN 24" MIN 12" MIN 18"
P6 BF GRAB BAR AT SIDE WALL 39"-41" 42" MIN 1 1/2" CLR 12" 33-36" 38"-41"	P7 TOILET TISSUE DISP. AT SIDE WALL 1 1/2" MIN 1 1/2" MIN 48" MAX	P8 WALL MOUNTED SOAP DISPENSER 30" 30-36" E.O.	P9 SURFACE MOUNTED MIRROR 20" 4"	P10 TOWEL BAR and/or SHELF 20" FIN. FLR. LINE 33"
P11 SANITARY NAPKIN DISPENSER EQ. EQ. 40"	P12 PAPER TOWEL DISP. AT SIDE WALL 5" MIN 48" MAX	P13 WALL MOUNTED SOAP DISPENSER 34" MAX. BF	P14 SURFACE MOUNTED MIRROR 72" MIN. BF 33" MAX. STD. 40" MAX. AFF. ABOVE LAV. 48" MAX. BF	P15 TOWEL BAR and/or SHELF 48"-44" H
P16 SOAP DISH AT SHOWER EQ. EQ. 40"	P17 HINGED ACCESS PANELS 16" X 16" UON COR. WITH WEAR RED. MASONRY COURSING FIN. FLR. LINE	P18 HINGED ACCESS PANELS 12" X 12" UON NOTE: HINGED ACCESS PANEL @ STUD WALLS 14" X 14"	P19 SHOWER HEAD and CONTROL AREA 18" 74" MIN. 42" MAX. 38" MIN. 3-1/2" 48" MAX. BF 4"	P20 SEAT / SHOWER SEAT 4" AT GRAB BAR EQ. EQ. 17"-19" BF (SEAT HT.)
P21 MEDICINE CABINET FIN. FLR. LINE 40" MAX. ABOVE LAV. 72" STD.	P22 SHOWER CURTAIN ROD 76"	P23 HAND and HAIR DRYER 40" STD. 72" STD. 48" BF	P24 HAND and HAIR DRYER 40" STD. 72" STD. 48" BF	P25 HAND and HAIR DRYER 40" STD. 72" STD. 48" BF

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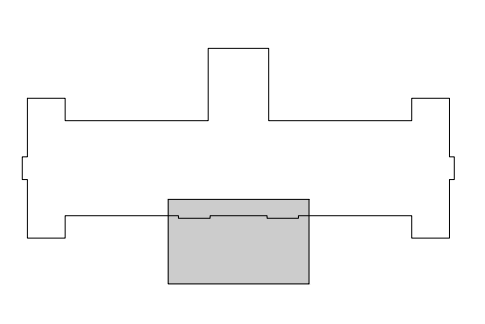
PARTNERS in Architecture, PLC
65 MARKET STREET
MOUNT CLEMENS, MI 48043
P 586.469.3600

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CONSULTANT

KEY PLAN



OWNER
Hamtramck Public Schools

PROJECT NAME
Kosciusko Middle School Structural Repairs

2333 Burger St.
Hamtramck, MI 48212

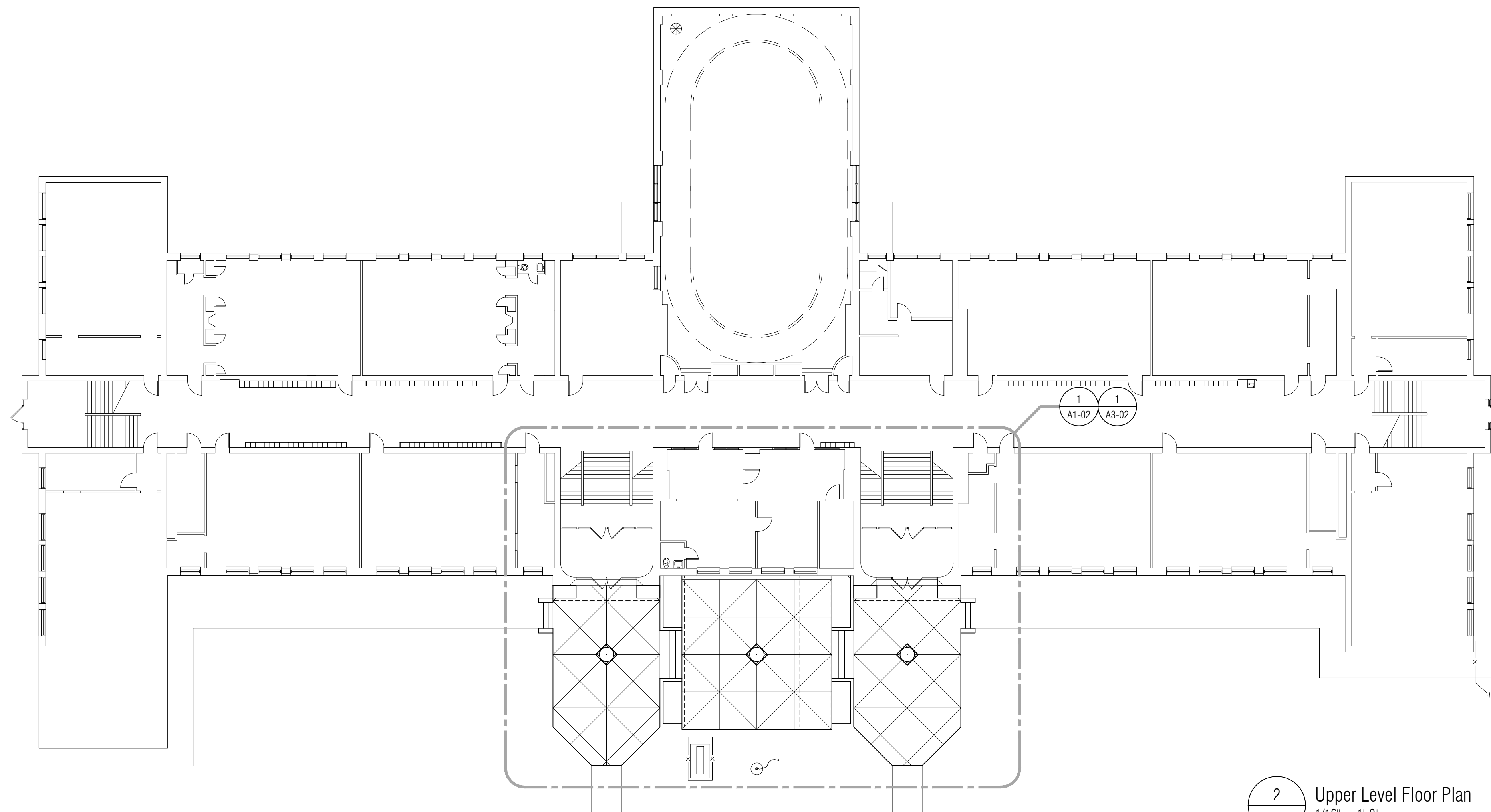
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21-167

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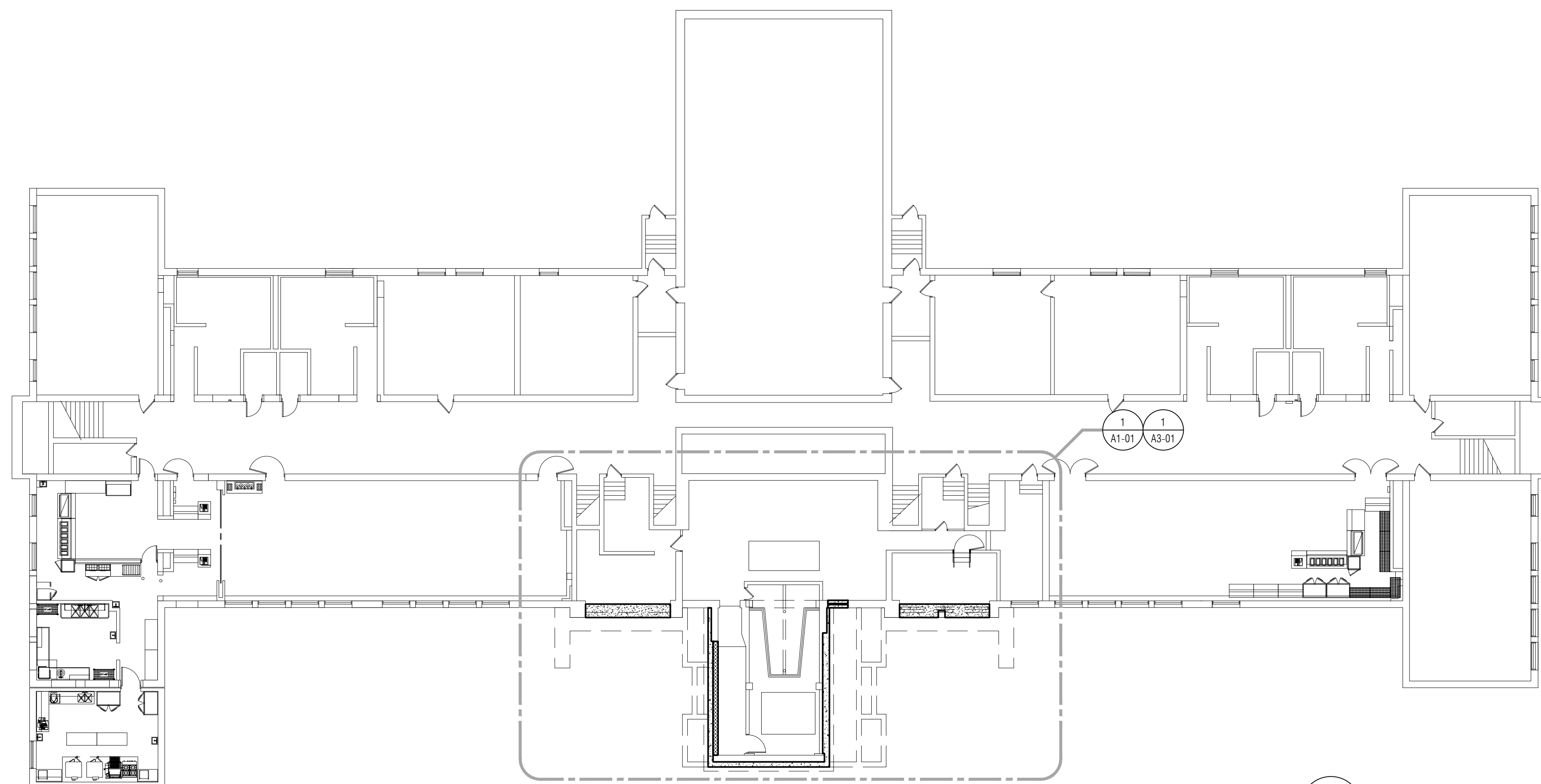
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SHEET NAME
GENERAL INFORMATION

SHEET NO.
A0-01

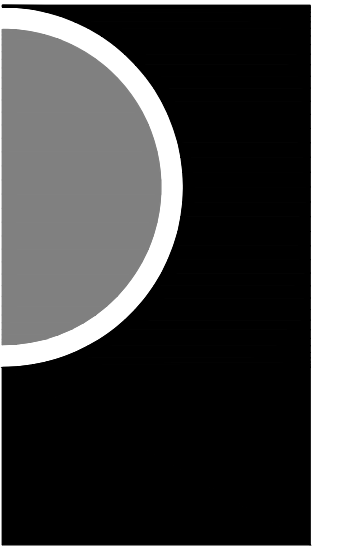


2 Upper Level Floor Plan
1/16" = 1'-0"



1 Lower Level Floor Plan
1/16" = 1'-0"

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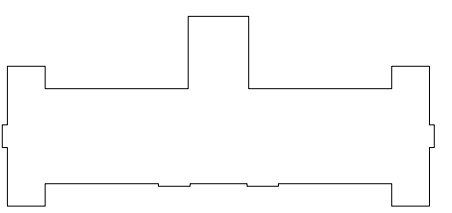
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KEY PLAN



OWNER

**Hamtramck
Public Schools**

PROJECT NAME

**Kosciuszko Middle
School
Structural Repairs**

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.

21-167

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

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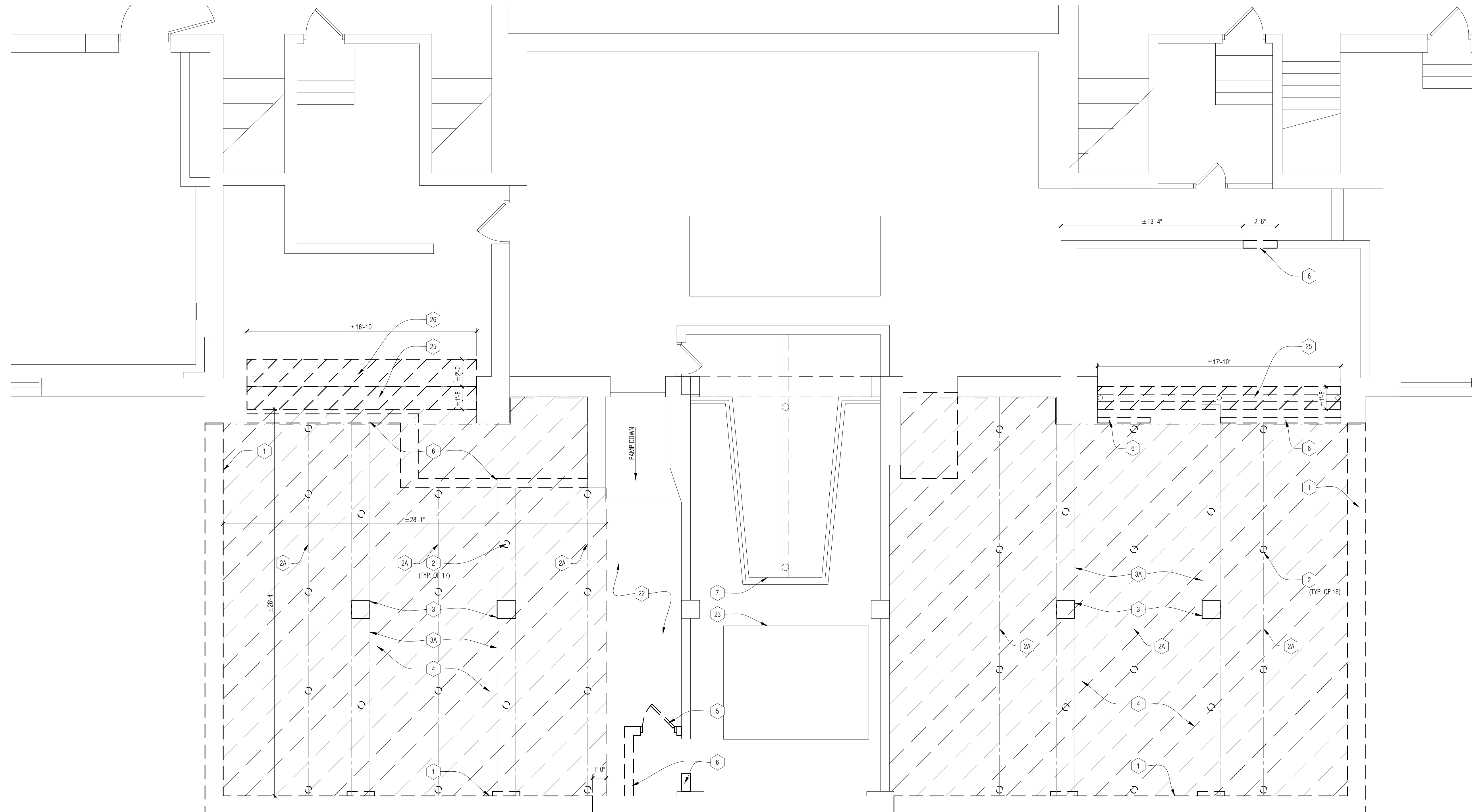
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SHEET NAME

**COMPOSITE
FLOOR PLANS**

SHEET NO.

A0-02



DEMO FLOOR PLAN GENERAL NOTES:

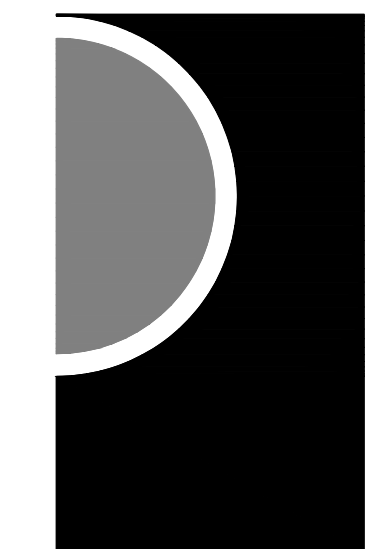
- A. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND UNDERSTANDING EXISTING CONDITIONS PRIOR TO STARTING WORK.
- B. ASBESTOS AND OTHER HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER'S ABATEMENT CONTRACTOR PRIOR TO START OF CONSTRUCTION. IF ANY SUSPECTED HAZARDOUS MATERIAL IS ENCOUNTERED, STOP WORK IN THAT AREA, AND IMMEDIATELY INFORM THE CONSTRUCTION MANAGER AND THE ARCHITECT.
- C. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED AND VERIFY IN FIELD. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- D. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR CONFLICTS WITH FLOOR PLANS OR EXISTING CONDITIONS PRIOR TO STARTING WORK.
- E. ALL DEMOLITION MEANS, METHODS AND SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING BUILDING ELEMENTS AND SITE FROM DAMAGE CAUSED BY CONSTRUCTION OR CONSTRUCTION TRADES, AND SHALL REPAIR ANY DAMAGED AREAS AT NO ADDITIONAL COST TO THE OWNER.
- G. DEMOLITION DRAWINGS AND 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 THE NEW WORK. COORDINATE WITH ALL TRADES.
- H. DISPOSE OF ALL DEMOLITION MATERIALS LEGALLY OFF SITE.
- I. PREP ALL NEW MASONRY OPENINGS TO RECEIVE NEW TOOTHED-IN MASONRY FOR LIKE NEW APPEARANCE WHERE DEMOLITION OCCURS AND WALL IS VISIBLE. COORDINATE WITH MASON.

DEMO FLOOR PLAN KEY NOTES:

- 1 EXISTING FOUNDATION WALL TO BE REMOVED. SHORE EXISTING TO REMAIN WALLS AS REQUIRED.
- 2 EXISTING STEEL TUBE COLUMN TO BE REMOVED.
- 2A EXISTING STEEL BEAM TO BE REMOVED.
- 3 EXISTING CONCRETE PIER TO BE REMOVED.
- 3A EXISTING CONCRETE BEAM TO BE REMOVED.
- 4 SAW CUT AND REMOVE EXISTING FLOOR SLAB (POCHED AREA)
- 5 EXISTING DOOR AND FRAME TO BE REMOVED.
- 6 EXISTING CMU WALL CONSTRUCTION TO BE REMOVED - COORDINATE LOCATION SO HEIGHT OF NEW DOOR DOES NOT DISTURB EXISTING WALL MOUNTED PIPES.
- 7 AIR FILTER ENCLOSURE TO REMAIN. PROTECT DURING DEMOLITION & CONSTRUCTION
- 8 ASPHALT PAVING ON CONC DECK TO BE REMOVED - REFER TO NOTES 9 & 10.
- 9 EXISTING CONCRETE DECK BELOW ASPHALT PAVING TO BE REMOVED.
- 10 EXISTING CONCRETE DECK BELOW ASPHALT PAVING TO REMAIN.
- 11 EXISTING CONCRETE WALK TO BE REMOVED TO NEAREST JOINT.
- 12 EXISTING FLAG POLE TO REMAIN.
- 13 EXISTING CONCRETE STEPS AND END CAPS TO BE REMOVED.
- 14 EXISTING GAS METERING EQUIPMENT TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION - REFER TO MECHANICAL FOR GAS LINE REWORK.
- 14A APPROXIMATE AREA OF TRENCH FOR NEW GAS LINE - COORDINATE W/ MECHANICAL.
- 15 EXISTING LOUVER TO BE REMOVED.
- 16 REMOVE EXISTING MASONRY TO EXTEND EXISTING LOUVER OPENING WIDTH. SHORE EXISTING WALL AS REQUIRED FOR LINTEL INSTALLATION. COORDINATE WITH MECH FOR FINAL OPENING SIZE REQUIRED.
- 17 EXISTING CONCRETE WALL & METAL ROOF ENCLOSURE TO BE REMOVED.
- 18 EXISTING FACE BRICK TO BE REMOVED. REMOVE MIN. OF 8" BEYOND NEW MASONRY OPENINGS OF FURTHEST APART LOUVERS.
- 19 EXISTING LIMESTONE END CAPS TO BE REMOVED AND SALVAGED FOR REUSE. CONTRACTOR TO MARK CAPS TO ALLOW REINSTALLATION AT SAME LOCATION.
- 20 REMOVE BRICK IN SAW TOOTH FASHION TO ALLOW FOR INSTALLATION OF NEW BRICK.
- 21 EXISTING LIMESTONE STEP TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 22 EXISTING CONC TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 23 EXISTING MECHANICAL TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 24 EXISTING CONC TO BE REMOVED AS REQUIRED TO COMPLETE NEW SITE WORK.
- 25 CLEAN STEEL AND/OR REBAR AND PAINT W/ EPOXY PAINT. PREP CRACKED AND SPALDING CONCRETE TO RECEIVE NEW WORK.
- 26 REMOVE PORTION OF CRACKED PLASTER CEILING AND PREP AREA TO RECEIVE NEW PAINT.

1 Lower Level Demolition Plan
A0-02 1/4" = 1'-0"

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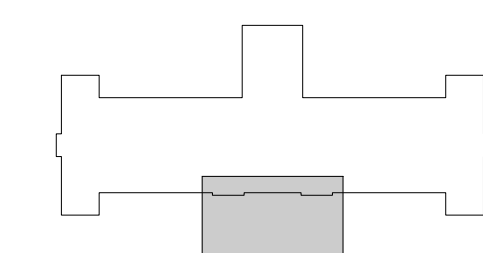
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CONSULTANT

KEY PLAN



OWNER

**Hamtramck
Public Schools**

PROJECT NAME

**Kosciusko Middle
School
Structural Repairs**

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.

21-167

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

DRAWN BY

CWP

CHECKED BY

DRM

APPROVED BY

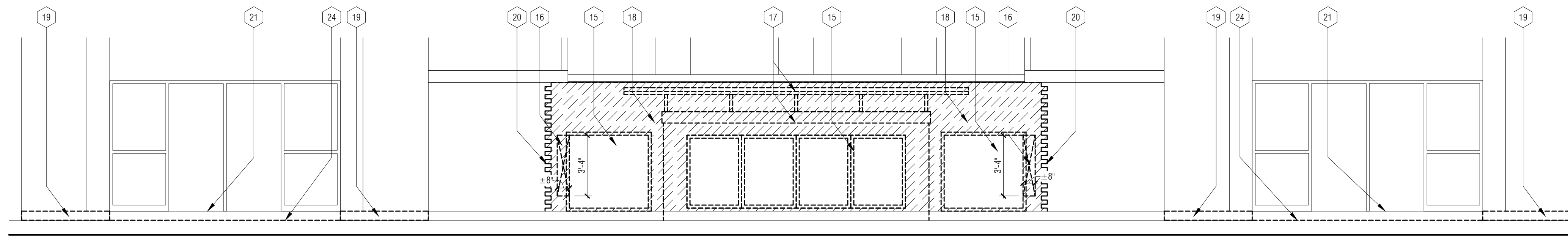
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SHEET NAME

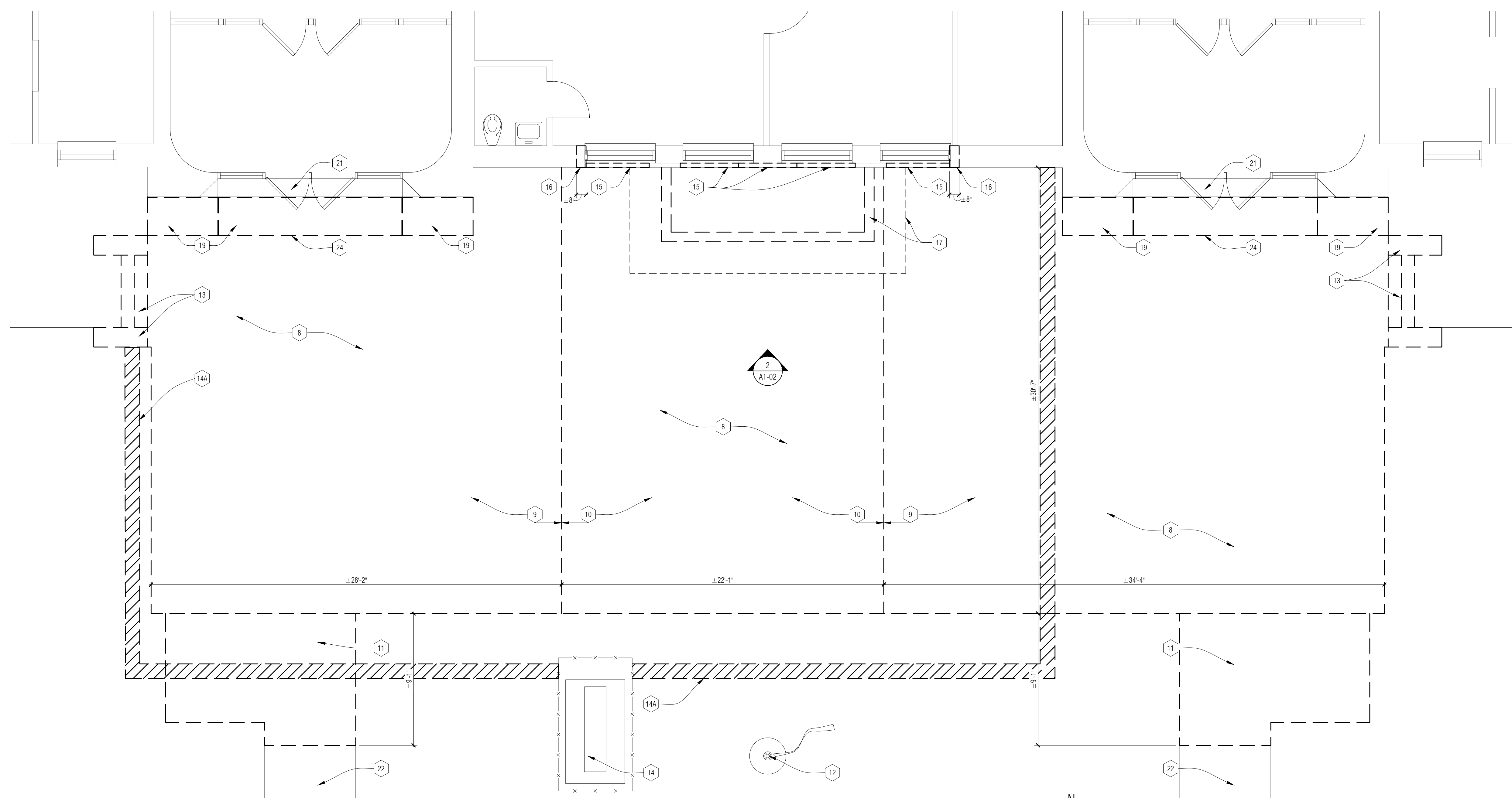
**LOWER LEVEL
DEMOLITION PLAN**

SHEET NO.

A1-01



2
A1-02 Partial Demolition Elevation
1/4" = 1'-0"



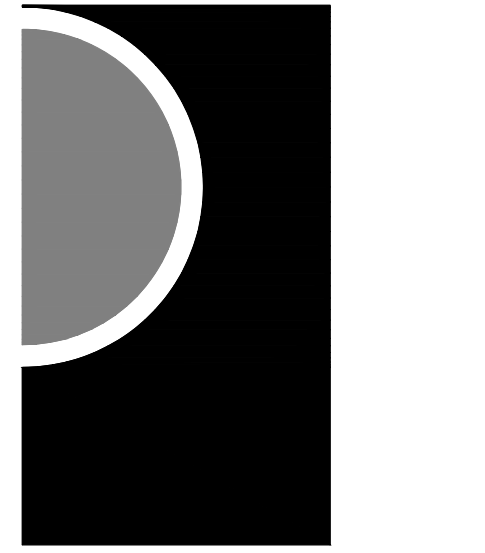
1
A0-02 Upper Level Demolition Plan
1/4" = 1'-0"

DEMO FLOOR PLAN GENERAL NOTES:

- A. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND UNDERSTANDING EXISTING CONDITIONS PRIOR TO STARTING WORK.
- B. 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 CONSTRUCTION MANAGER AND THE ARCHITECT.
- C. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED AND VERIFY IN FIELD. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- D. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR CONFLICTS WITH FLOOR PLANS OR EXISTING CONDITIONS PRIOR TO STARTING WORK.
- E. ALL DEMOLITION MEANS, METHODS AND SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING BUILDING ELEMENTS AND SITE FROM DAMAGE CAUSED BY CONSTRUCTION OR CONSTRUCTION TRADES, AND SHALL REPAIR ANY DAMAGED AREAS AT NO ADDITIONAL COST TO THE OWNER.
- G. DEMOLITION DRAWINGS AND 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 THE NEW WORK. COORDINATE WITH ALL TRADES.
- H. DISPOSE OF ALL DEMOLITION MATERIALS LEGALLY OFF SITE.
- I. PREP ALL NEW MASONRY OPENINGS TO RECEIVE NEW TOOTHED-IN MASONRY FOR LIKE NEW APPEARANCE WHERE DEMOLITION OCCURS AND WALL IS VISIBLE. COORDINATE WITH MASON.

DEMO FLOOR PLAN KEY NOTES:

- 1 EXISTING FOUNDATION WALL TO BE REMOVED. SHORE EXISTING TO REMAIN WALLS AS REQUIRED.
- 2 EXISTING STEEL TUBE COLUMN TO BE REMOVED.
- 2A EXISTING STEEL BEAM TO BE REMOVED.
- 3 EXISTING CONCRETE PIER TO BE REMOVED.
- 3A EXISTING CONCRETE BEAM TO BE REMOVED.
- 4 SAW CUT AND REMOVE EXISTING FLOOR SLAB (POCHED AREA)
- 5 EXISTING DOOR AND FRAME TO BE REMOVED.
- 6 EXISTING CMU WALL CONSTRUCTION TO BE REMOVED - COORDINATE LOCATION SO HEIGHT OF NEW DOOR DOES NOT DISTURB EXISTING WALL MOUNTED PIPES.
- 7 AIR FILTER ENCLOSURE TO REMAIN. PROTECT DURING DEMOLITION & CONSTRUCTION
- 8 ASPHALT PAVING ON CONC DECK TO BE REMOVED - REFER TO NOTES 9 & 10.
- 9 EXISTING CONCRETE DECK BELOW ASPHALT PAVING TO BE REMOVED.
- 10 EXISTING CONCRETE DECK BELOW ASPHALT PAVING TO REMAIN.
- 11 EXISTING CONCRETE WALK TO BE REMOVED TO NEAREST JOINT.
- 12 EXISTING FLAG POLE TO REMAIN.
- 13 EXISTING CONCRETE STEPS AND END CAPS TO BE REMOVED.
- 14 EXISTING GAS METERING EQUIPMENT TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION - REFER TO MECHANICAL FOR GAS LINE REWORK.
- 14A APPROXIMATE AREA OF TRENCH FOR NEW GAS LINE - COORDINATE W/ MECHANICAL.
- 15 EXISTING LOUVER TO BE REMOVED.
- 16 REMOVE EXISTING MASONRY TO EXTEND EXISTING LOUVER OPENING WIDTH. SHORE EXISTING WALL AS REQUIRED FOR LINTEL INSTALLATION. COORDINATE WITH MECH FOR FINAL OPENING SIZE REQUIRED.
- 17 EXISTING CONCRETE WALL & METAL ROOF ENCLOSURE TO BE REMOVED.
- 18 EXISTING FACE BRICK TO BE REMOVED. REMOVE MIN. OF 8" BEYOND NEW MASONRY OPENINGS OF FURTHEST APART LOUVERS.
- 19 EXISTING LIMESTONE END CAPS TO BE REMOVED AND SALVAGED FOR REUSE. CONTRACTOR TO MARK CAPS TO ALLOW REINSTALLATION AT SAME LOCATION.
- 20 REMOVE BRICK IN SAW TOOTH FASHION TO ALLOW FOR INSTALLATION OF NEW BRICK.
- 21 EXISTING LIMESTONE STEP TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 22 EXISTING CONC TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 23 EXISTING MECHANICAL TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION.
- 24 EXISTING CONC TO BE REMOVED AS REQUIRED TO COMPLETE NEW SITE WORK.
- 25 CLEAN STEEL AND/OR REBAR AND PAINT W/ EPOXY PAINT. PREP CRACKED AND SPALDING CONCRETE TO RECEIVE NEW WORK.
- 26 REMOVE PORTION OF CRACKED PLASTER CEILING AND PREP AREA TO RECEIVE NEW PAINT.



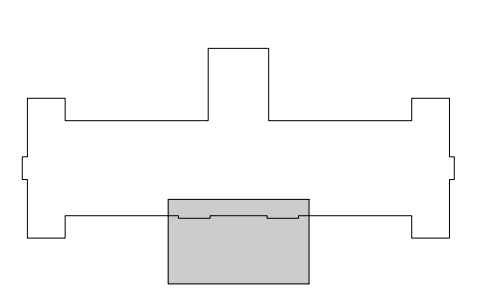
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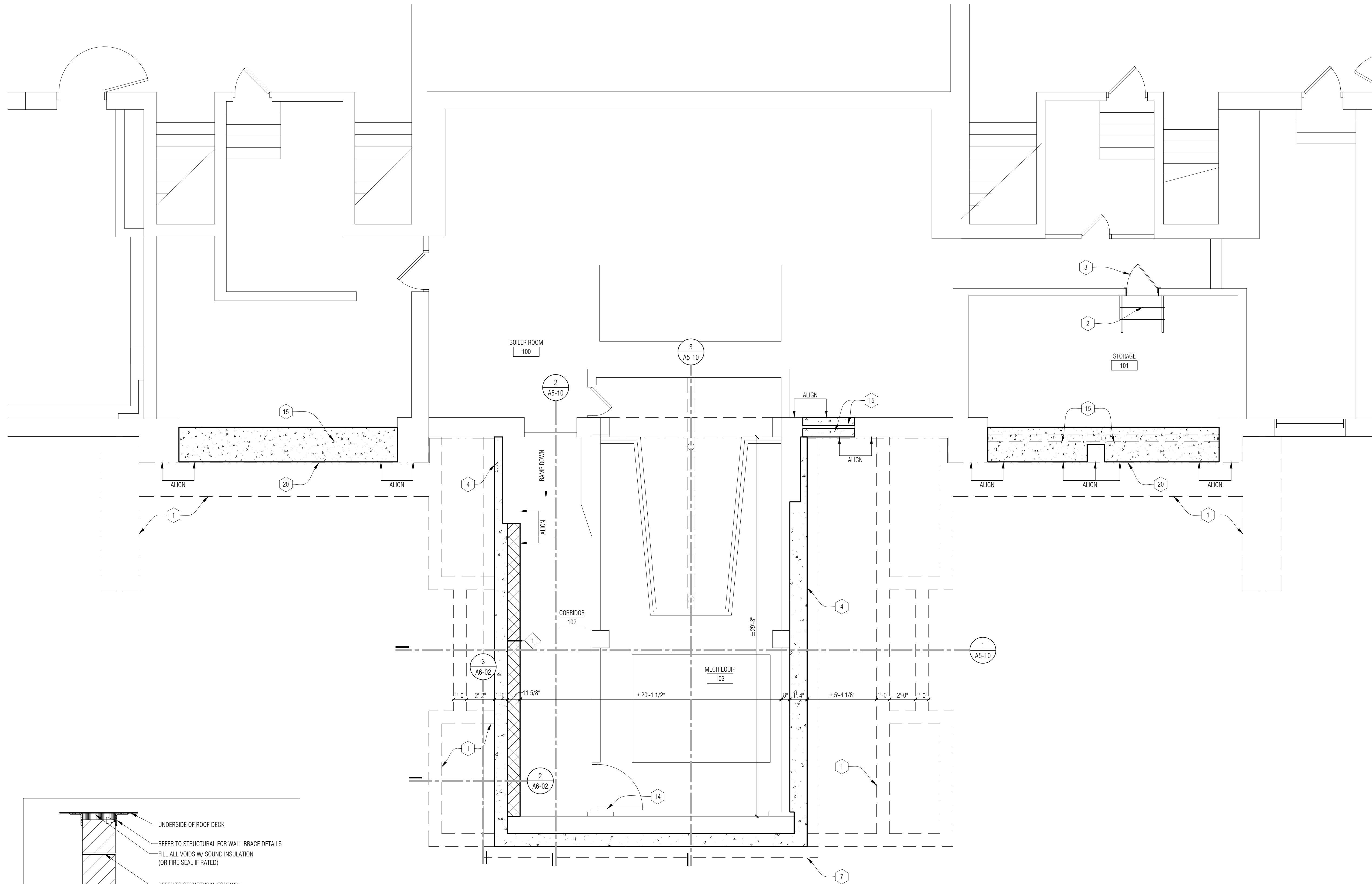
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SHEET NAME

UPPER LEVEL
DEMOLITION PLAN
& ELEVATION

SHEET NO.

A1-02



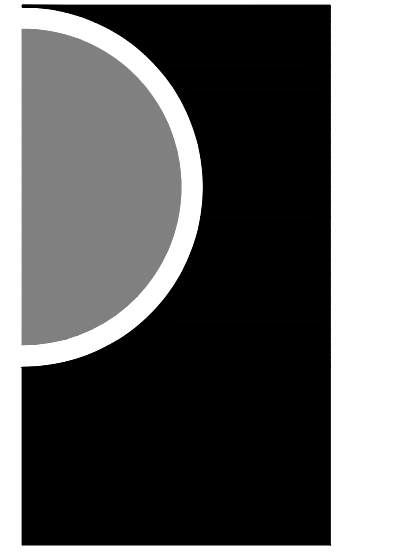
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- F. DISPOSE OF ALL CONSTRUCTION MATERIALS LEGALLY OFF SITE.
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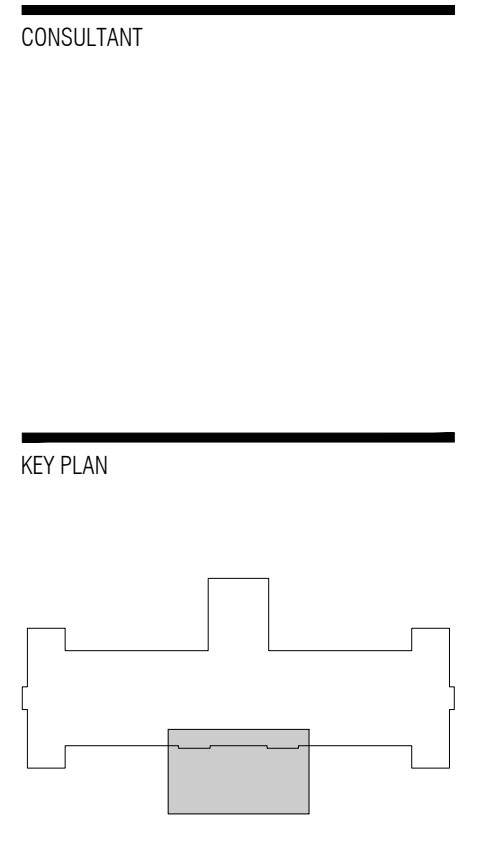
- 1 LINE OF REINFORCED CONCRETE FOOTINGS ABOVE. REFER TO SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 2 PRE-MANUFACTURED METAL STAIRS DOWN TO LOWER FLOOR LEVEL - REFER TO SPECIFICATIONS. COORDINATE HEIGHT OF STAIRS WITH NEW WALL OPENING.
- 3 NEW 30" W X 30" ACCESS DOOR IN MODIFIED EXISTING MASONRY WALL - COORDINATE EXISTING CLEAR HEIGHT AVAILABLE FOR DOOR WITH EXISTING WALL MOUNTED PIPING PRIOR TO ORDERING. INFORM ARCHITECT IF CALLED OUT DOOR SIZE WILL NOT FIT IN EXISTING CONDITIONS.
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- 5 ALTERNATE #1: PRE-CAST CONCRETE SPHERICAL BOLLARD - REFER TO SPECIFICATIONS.
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- 11 EXISTING LIMESTONE STEP REINSTALLED IN SAME LOCATION ON NEW CONCRETE FOOTING. REFER TO STRUCTURAL.
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- 13 NEW POURED CONCRETE ON RIGID INSULATION & CONCRETE DECK. REFER TO WALL SECTIONS AND STRUCTURAL DRAWINGS.
- 14 NEW 3'-6" W X 6'-6" H HOLLOW METAL DOOR AND FRAME - REFER TO SPECIFICATIONS AND DOOR HARDWARE SECTION - DOOR TO BE 60 MIN RATED. SECURE FRAME TO EXISTING CMU/CONCRETE JAMBS & HEAD. INFILL HEADER AS REQUIRED TO ACHIEVE COMPLETE SEAL OF FAN ROOM. VERIFY SIZE OF OPENING PRIOR TO ORDERING NEW DOOR.
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- 16 ALTERNATE #1: CURVED PRE-CAST CONCRETE BENCH - REFER TO SPECIFICATIONS.
- 17 NEW CONCRETE STEPS - REFER TO SECTIONS AND STRUCTURAL DRAWINGS.
- 18 CONCRETE PLANTERS - REFER TO SECTIONS AND STRUCTURAL DRAWINGS.
- 19 RESTORE ALL LAWN AREAS DISTURBED DUE TO CONSTRUCTION - REFER TO SPECIFICATIONS.
- 20 APPLY WATERPROOFING TO EXISTING BUILDING WALL PRIOR TO INFILL - COORDINATE W/ STRUCTURAL.

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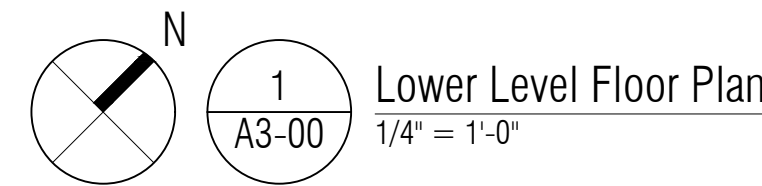
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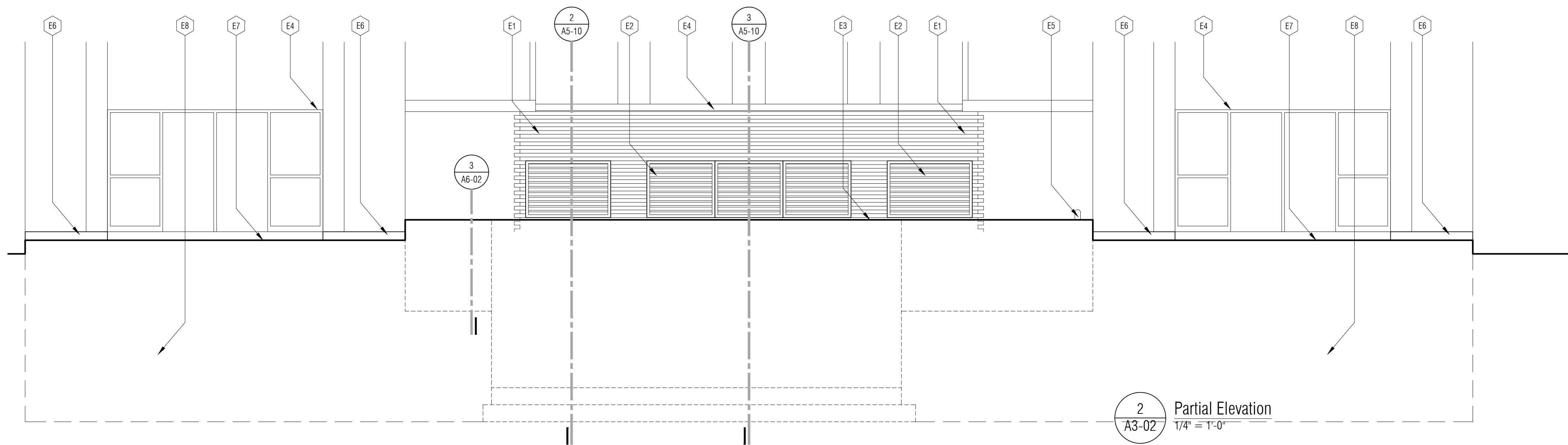
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LOWER LEVEL FLOOR PLAN

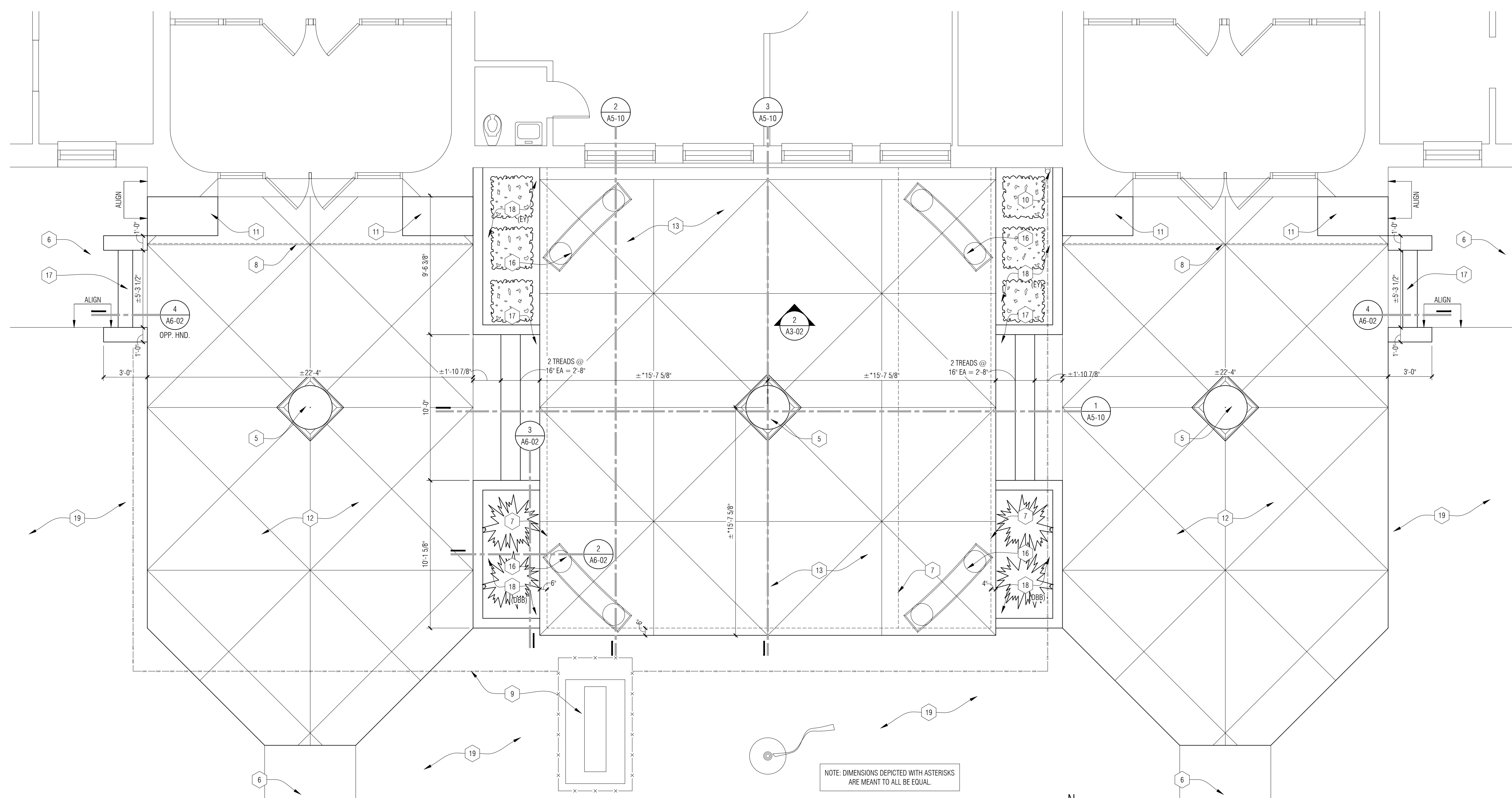
SHEET NO.
A3-01



Lower Level Floor Plan
 1/4" = 1'-0"



2 Partial Elevation
A3-02 1/4" = 1'-0"



1 Upper Level Floor Plan
A0-02 1/4" = 1'-0"

NOTE: DIMENSIONS DEPICTED WITH ASTERISKS ARE MEANT TO ALL BE EQUAL.

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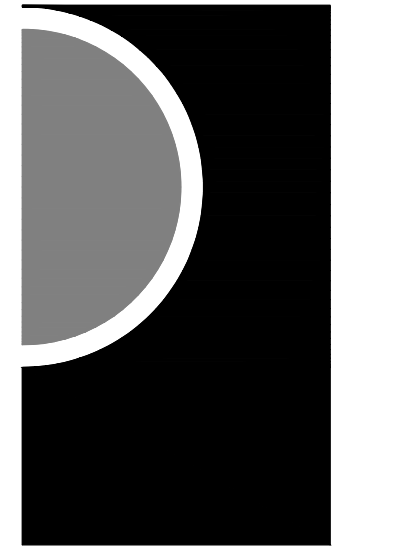
ELEVATION KEY NOTES:

- E1 NEW RUNNING BOND FACE BRICK TO MATCH EXISTING - REFER TO SPECIFICATIONS. TOOTH NEW BRICK INTO EXISTING.
- E2 PRE-FINISHED MECHANICAL LOUVER - REFER TO MECH.
- E3 LINE OF NEW CONCRETE DECK.
- E4 EXISTING BUILDING ELEMENTS TO REMAIN.
- E5 RELOCATED GAS LINE - REFER TO MECHANICAL DRAWINGS.
- E6 EXISTING LIMESTONE STEP REINSTALLED IN SAME LOCATION ON NEW CONCRETE FOOTING - REFER TO STRUCT.
- E7 LINE OF NEW CONCRETE PAVING.
- E8 AREA OF VOID TO BE FILLED.

PLANTING SCHEDULE

QTY.	DESCRIPTION	SIZE / ROOT
6	(EY) EVERLOW YEW	30'-36'
4	(DDB) DWARF BURNING BUSH	30'-36'

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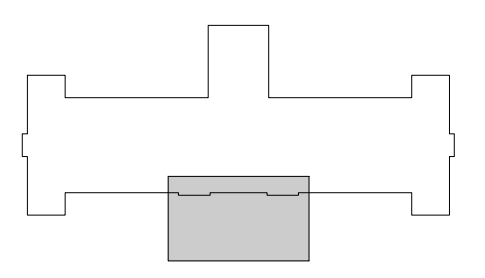
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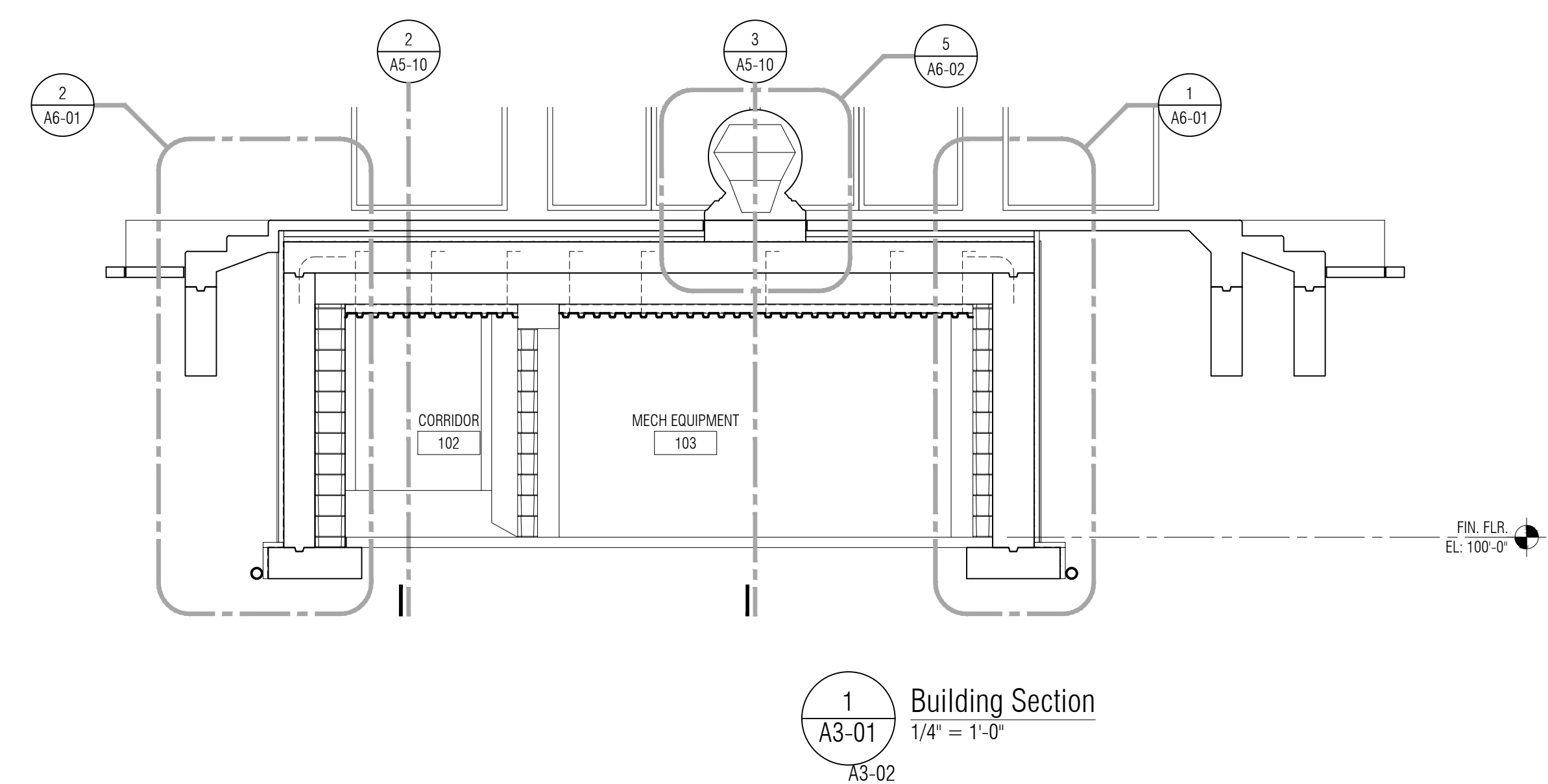
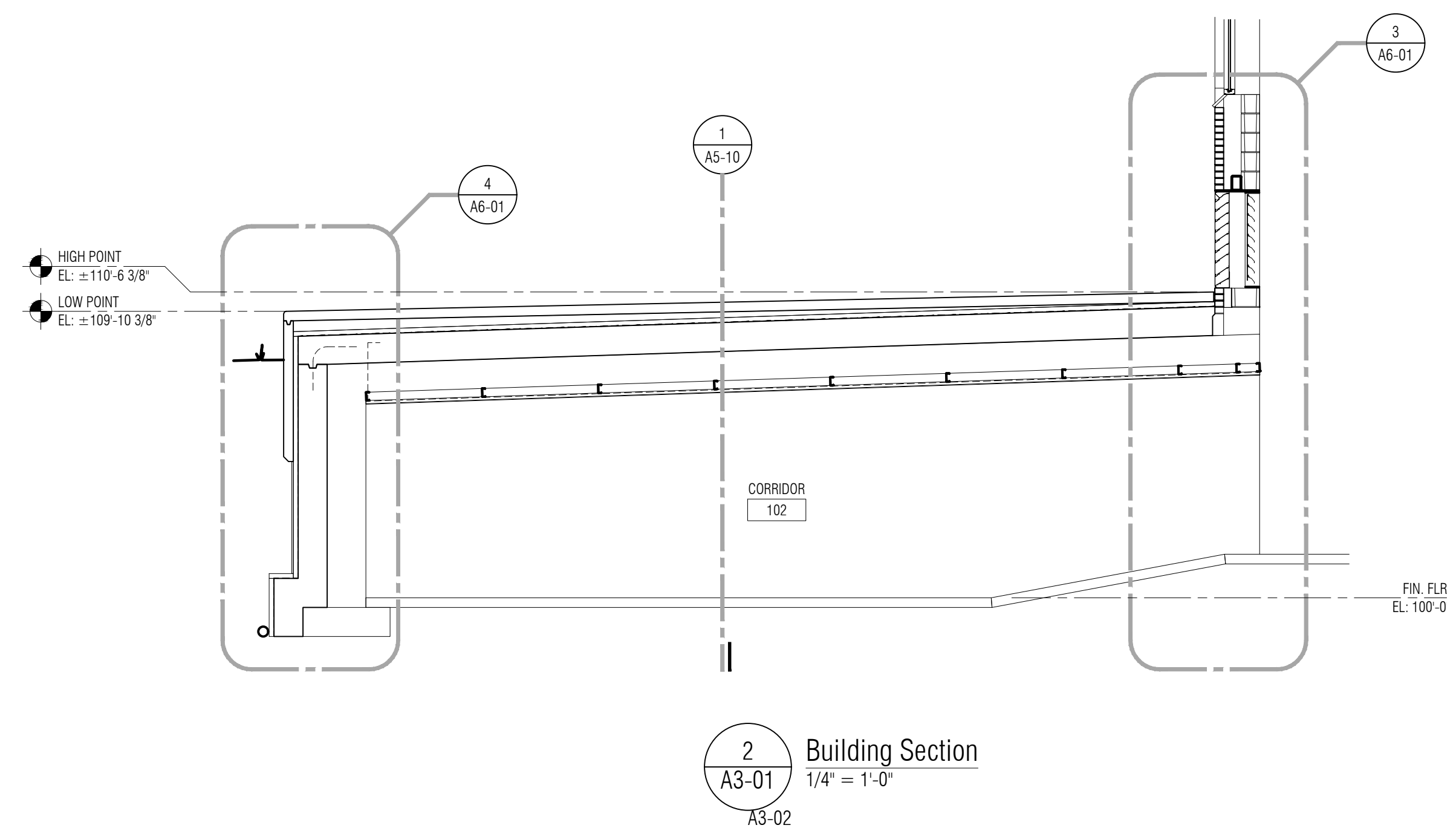
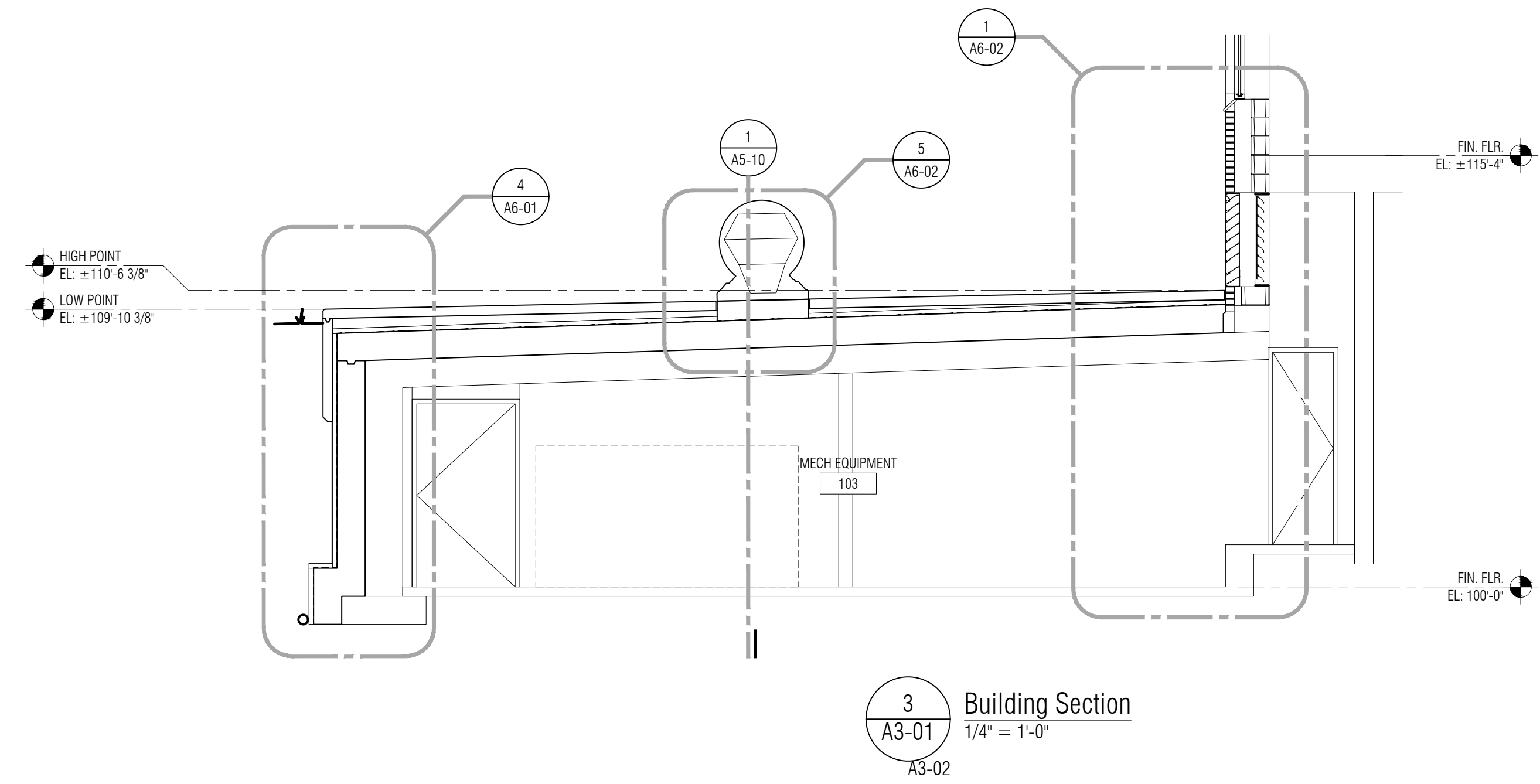
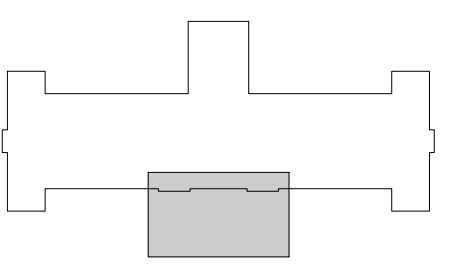
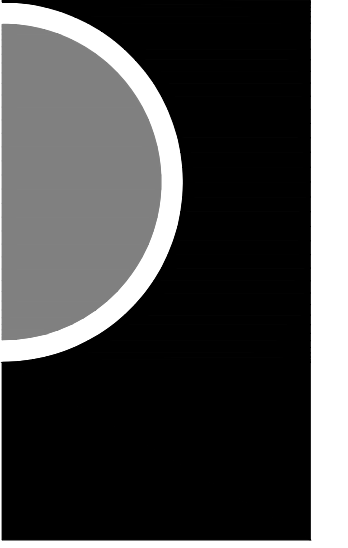
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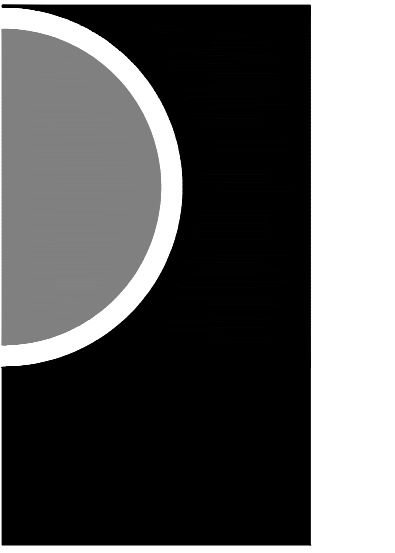
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UPPER LEVEL FLOOR PLAN & ELEVATION

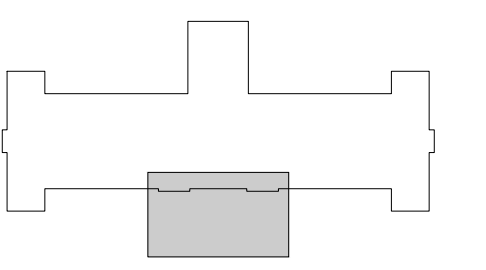
SHEET NO.

A3-02





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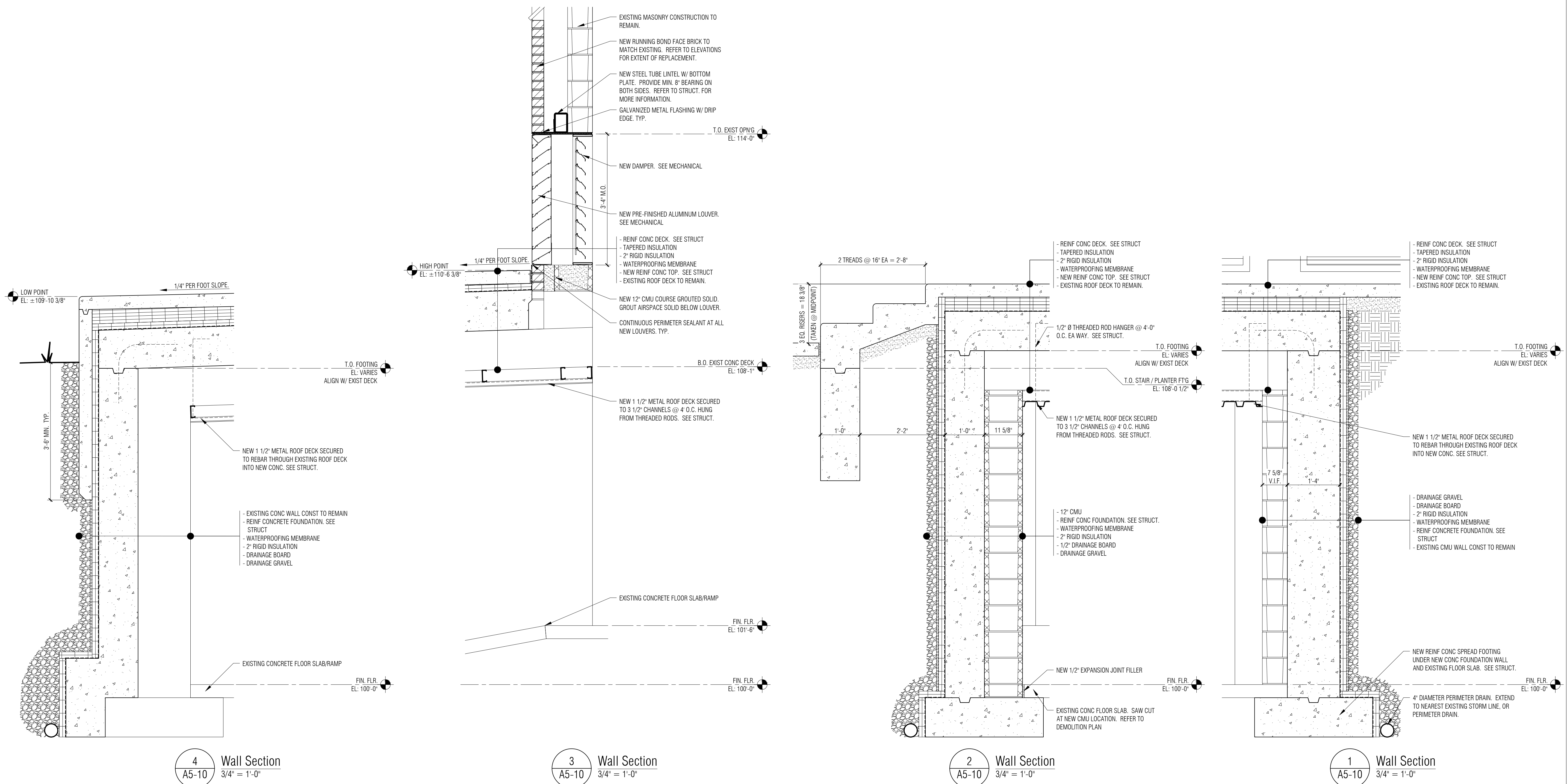
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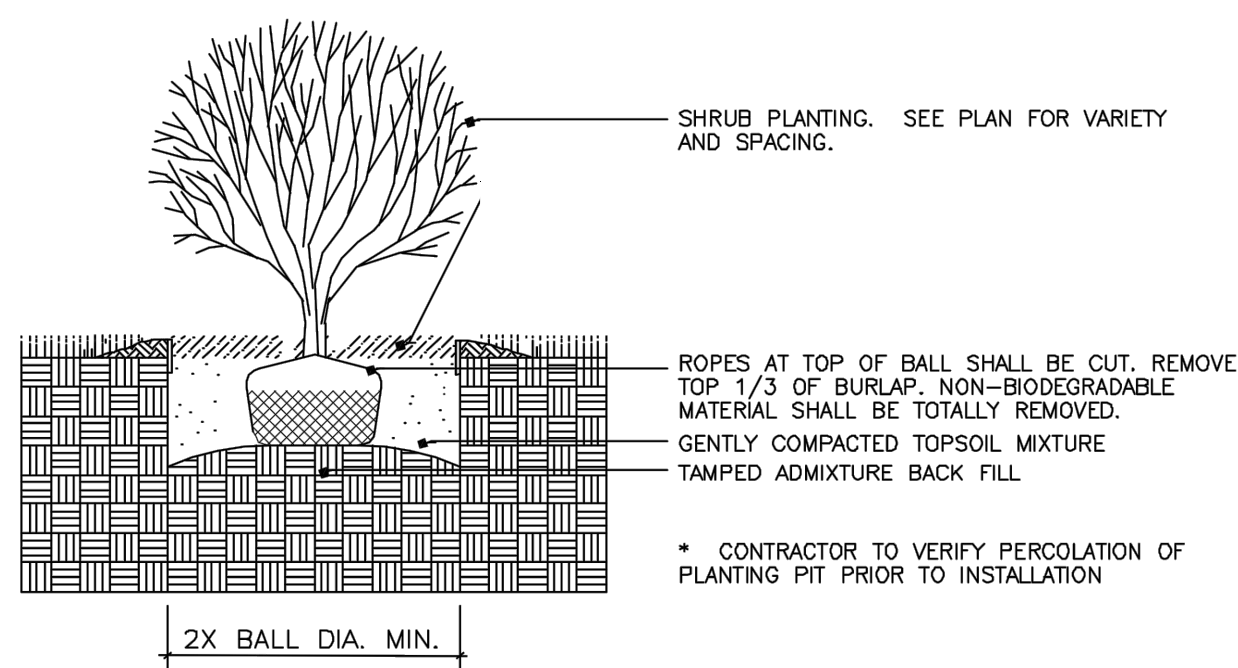
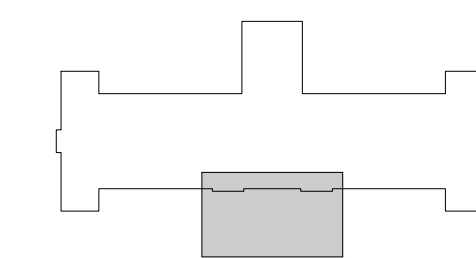
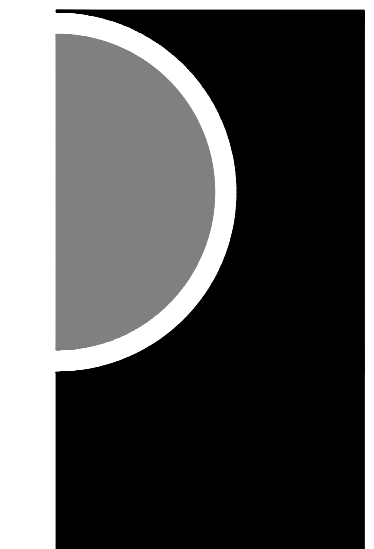
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WALL SECTIONS

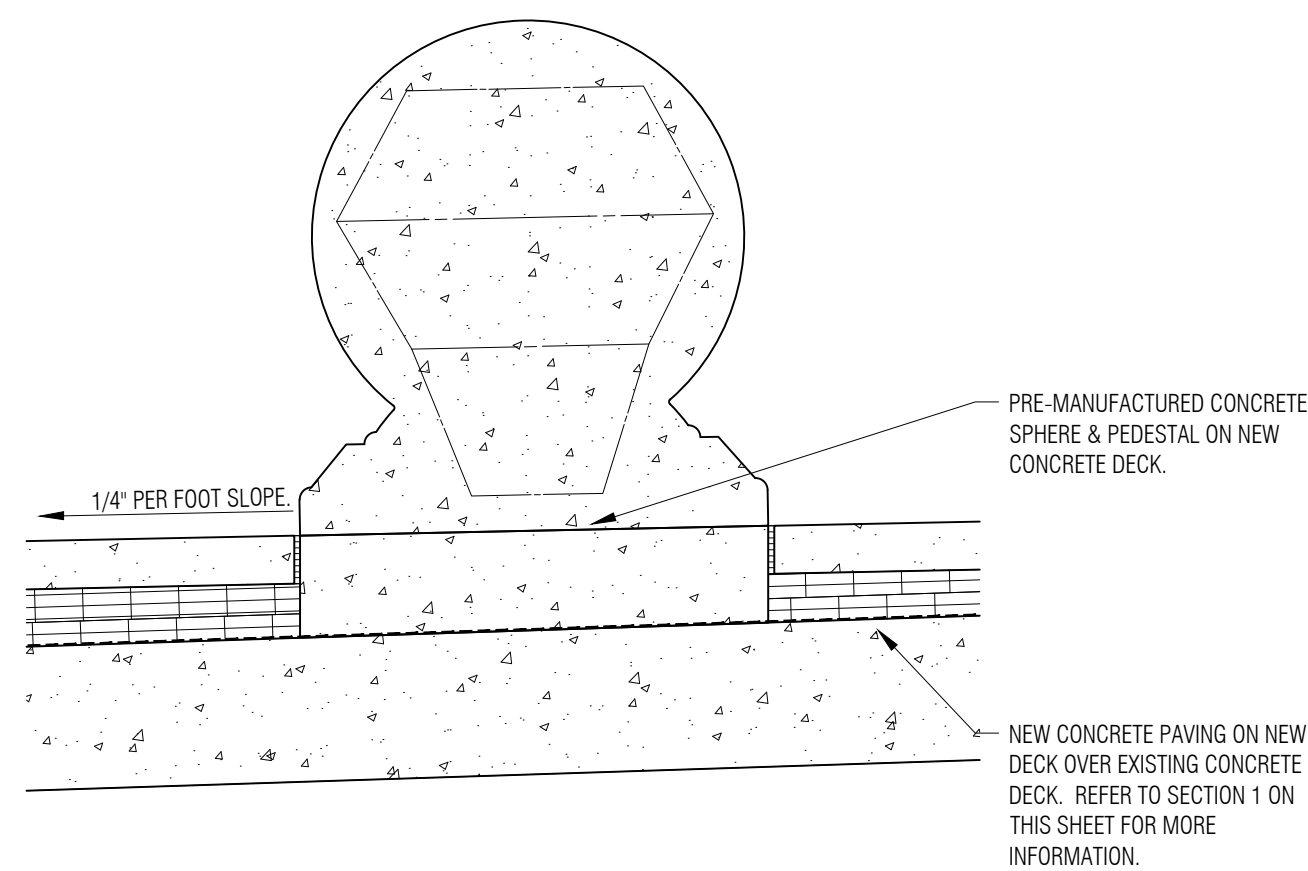
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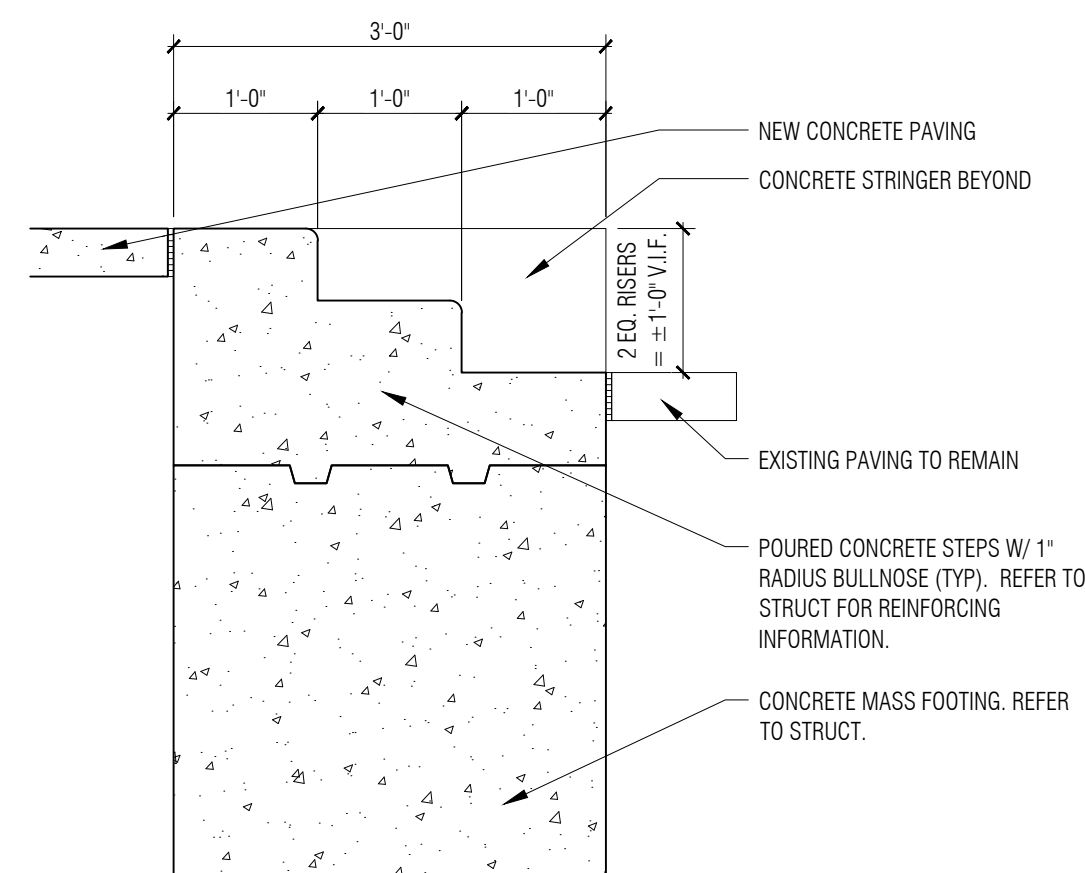




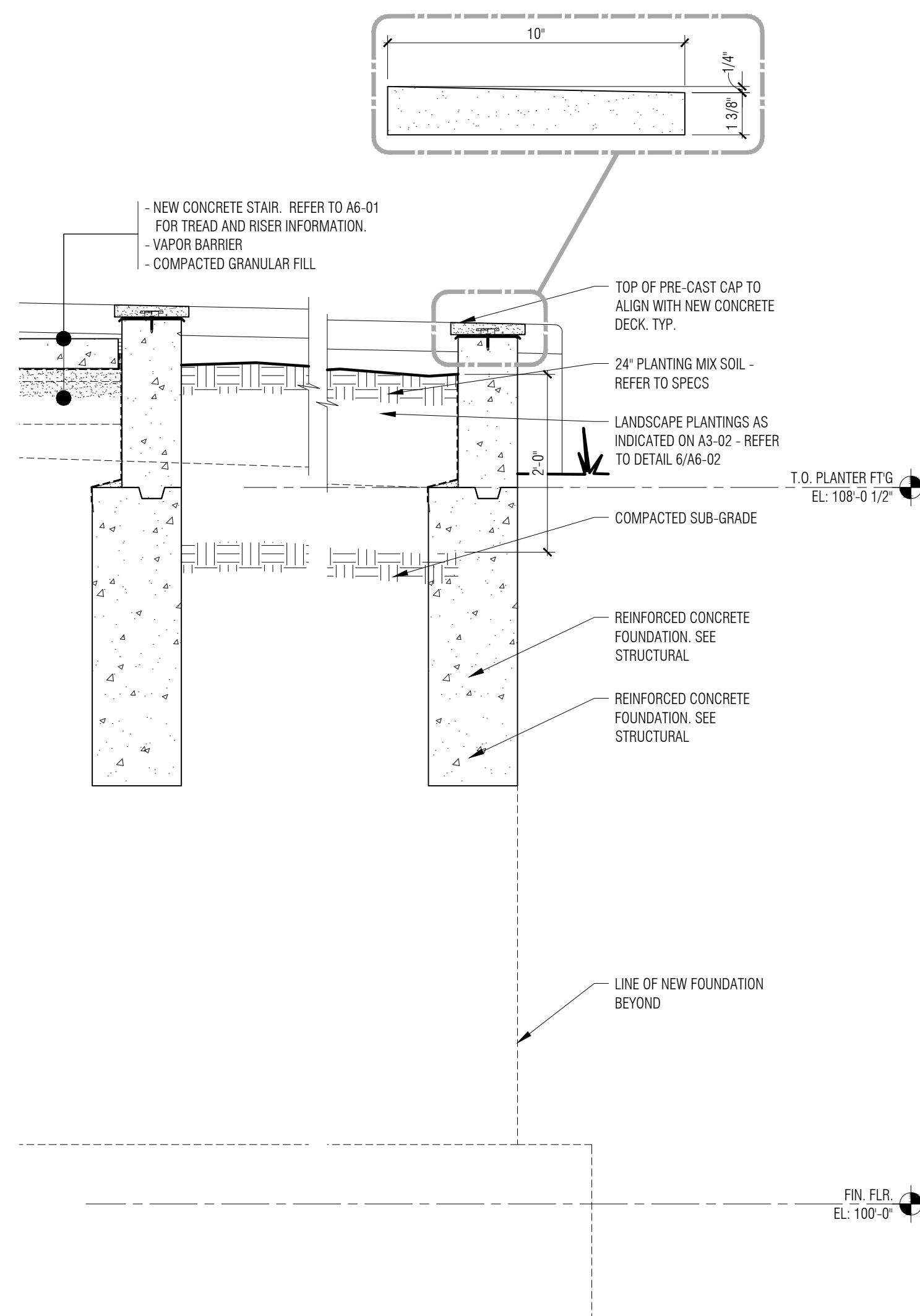
6 Typical Shrub Planting Detail at Concrete Planters
PR-01 N.T.S.



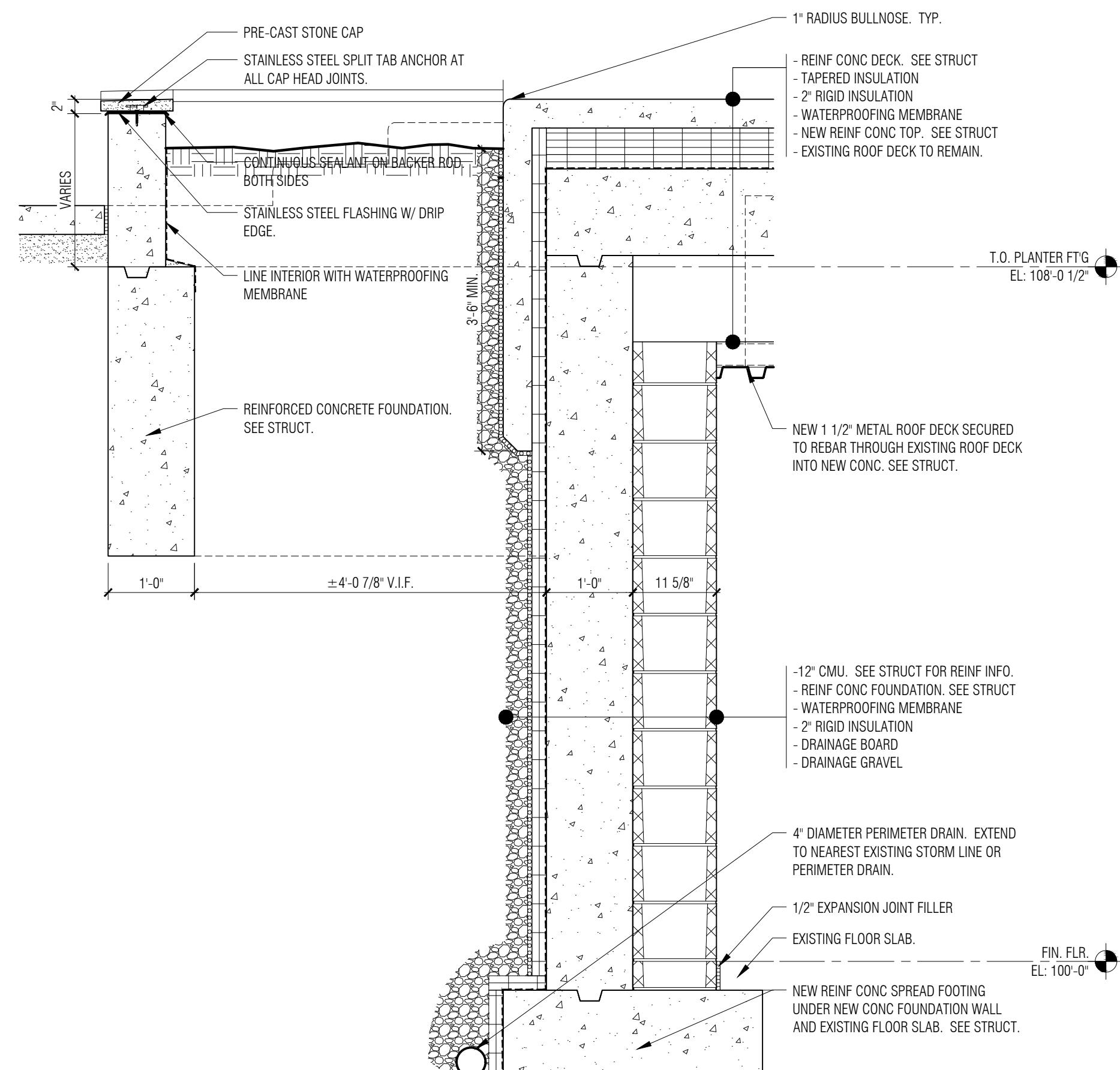
5 Concrete Sphere Detail
A5-10 3/4" = 1'-0"



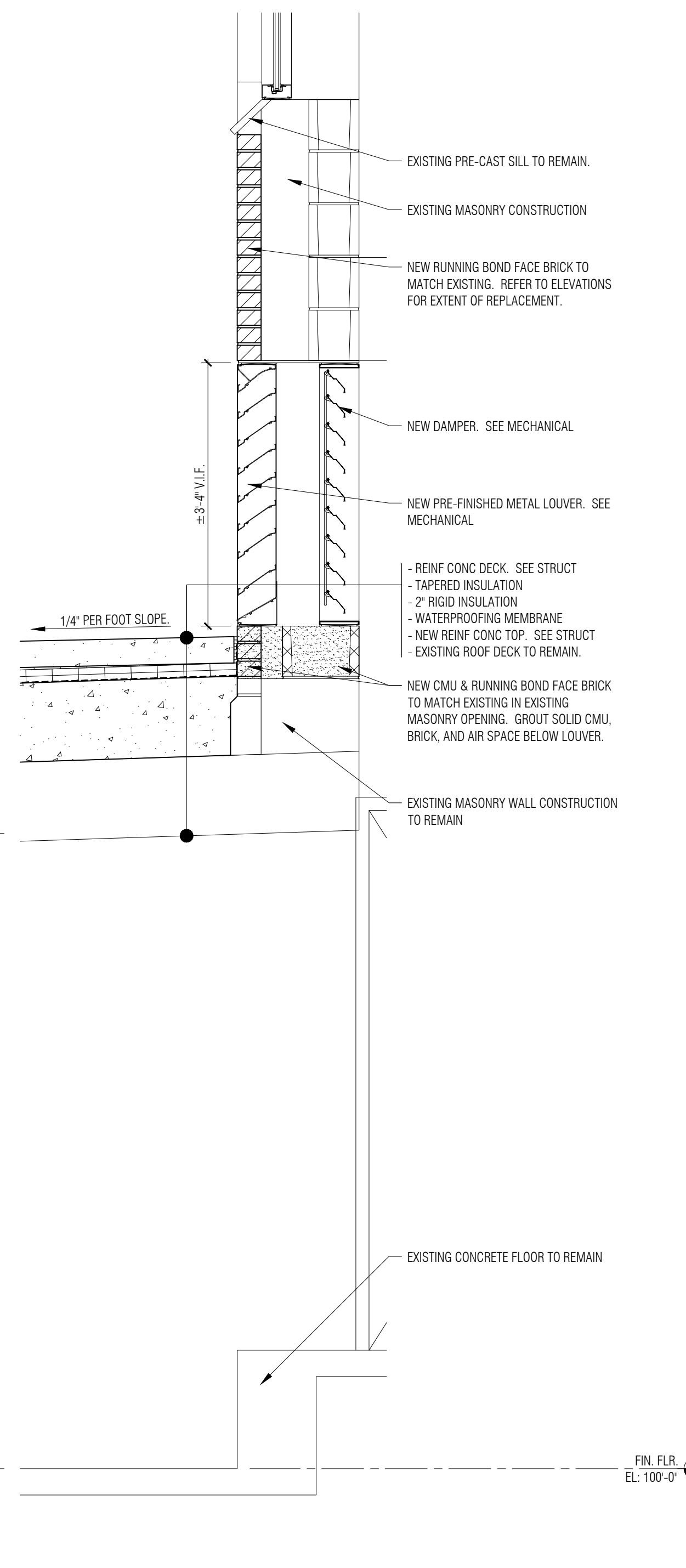
4 Concrete Stair Detail
A3-02 3/4" = 1'-0"



3 Wall Section
A3-01 3/4" = 1'-0"
A3-02



2 Wall Section
A3-01 3/4" = 1'-0"
A3-02



1 Wall Section
A5-10 3/4" = 1'-0"

DESIGN CRITERIA AND LOADS

- 1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
 - IBC 2018
 - ASCE/SEI 7-16
 - ACI 318-14
 - ACI 530-13
 - AISC 360-16
 - AWS D1.1
- 2. RISK CATEGORY III
- 3. LIVE LOADS:
 - PUBLIC AREAS 100 PSF
 - MAX SIMULTANEOUS VERT AND HORIZ THRUST 50 PLF APPLIED AT THE TOP OF THE RAILING OR 200 LBS IN ANY DIRECTION
- 4. SNOW:
 - GROUND SNOW 25 PSF
 - SNOW EXPOSURE FACTOR 1.0
 - THERMAL FACTOR 1.0
 - IMPORTANCE FACTOR 1.1

GENERAL

- 1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSURED UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
- 2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 3. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- 4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- 5. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
- 6. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- 7. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- 8. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 9. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
- 10. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 11. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- 12. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 13. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
- 14. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
- 15. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER OR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- 16. EXISTING CONDITIONS:
 - A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM FIELD TAKE-OFF BY IMEG AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
 - B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE AOR OR SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.

DEMOLITION

- 1. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
- 2. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

SHORING

- 1. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS, SHORING WILL BE REQUIRED. REFER TO CONTRACT DOCUMENTS.
- 2. REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION REGARDING THE DESIGN AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT.

EARTHWORK

- 1. SOIL PROPERTIES (ASSUMED - TO BE VERIFIED DURING CONSTRUCTION):
 - ALLOWABLE NET SOIL BEARING PRESSURE: 2,000 PSF (NATIVE SOIL OR ENGINEERED FILL)
 - ANTICIPATED DEPTH TO ALLOWABLE: FROST DEPTH 3.5 FT (MIN)

ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING/BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.

- 2. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
- 3. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
- 4. ANY IMPORT FILL SOIL, REQUIRED SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO IMPORTING.
- 5. ALL SITE WORK SHALL BE PERFORMED UNDER THE INSPECTION OF THE SPECIAL INSPECTION AGENCY. VARIATIONS IN SITE CONDITIONS AND THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ARCHITECT/STRUCTURAL ENGINEER FOR CLARIFICATIONS PRIOR TO PROCEEDING.
- 6. WHERE DEEP EXCAVATION IS REQUIRED, AND THE NECESSARY SPACE IS AVAILABLE, SURCHARGING OR IMPROVEMENTS MAY BE SLOPED BACK IN LIEU OF SHORING. EXCAVATIONS SHALL NOT BE STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL PER RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. THE TOP OF EXCAVATIONS SHALL BE PROTECTED BY BARRICADES, ETC., TO PREVENT SURCHARGING AND BERMED TO PREVENT WATER RUN-OFF FROM ENTERING AND ERODING THE EXCAVATION. ADJACENT TO EXISTING BUILDINGS OR IMPROVEMENT, THE EXCAVATION SHALL BE RESTRICTED TO 15'-1" HORIZONTAL TO VERTICAL DOWNWARD FROM THE TOE OF THE EXISTING FOOTING, ETC. UNLESS SPECIAL PROCEDURES ARE IMPLEMENTED AND APPROVED BY THE ARCHITECT. ALL APPLICABLE REQUIREMENTS OF THE CALIFORNIA CONSTRUCTION AND GENERAL INDUSTRY SAFETY ORDERS, THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND THE CONSTRUCTION SAFETY ACT SHALL BE MET. IF ANPLE SPACE IS NOT AVAILABLE FOR THE REQUIRED EXCAVATION SLOPE, OR AS A CONSTRUCTION OPTION, SHORING MAY BE A POSSIBLE ALTERNATE.
- 7. ADEQUATE DRAINAGE SHALL BE PROVIDED BY MEANS OF EITHER WEEP HOLES WITH PERMEABLE MATERIAL, INSTALLED BEHIND THE WALL OR BY MEANS OF A SYSTEM OF SUBDRAINS. FOR THE SUBDRAIN SYSTEM, THE TOP OF THE PERFORATED PIPE SHOULD BE BELOW THE BOTTOM OF THE ADJACENT SLAB OR GRADE AT THE TOE OF THE WALL. DRAINS SHOULD CONSIST OF A DRAIN ROCK LAYER AT LEAST 12 INCHES THICK THAT EXTENDS TO WITHIN 2 FEET OF THE GROUND SURFACE. FOUR-INCH-DIAMETER PERFORATED PLASTIC PIPE SHOULD BE INSTALLED, WITH PERFORATIONS DOWN, ALONG THE BASE OF THE WALL ON A 2-INCH-THICK BED OF DRAIN ROCK. THE PIPE SHOULD BE SLOPED TO DRAIN BY GRAVITY TO A SUITABLE DRAINAGE FACILITY. DRAIN ROCK SHOULD CONFORM TO CALTRANS SPECIFICATIONS FOR CLASS 2 PERMEABLE MATERIAL. A MORE OPEN-GRADED MATERIAL, SUCH AS #3/4" CRUSHED ROCK, COULD BE USED PROVIDED THE ROCK IS WRAPPED IN A GEOTEXTILE FILTER FABRIC (MIN 10 INCH EQUIVALENT) TO REDUCE THE MIGRATION OF FINE-GRADED SOILS INTO THE DRAIN ROCK. PAVING OR A TWO-FOOT-THICK CAP OF CLAYEY SOIL SHOULD BE PLACED OVER THE DRAIN ROCK TO INHIBIT SURFACE WATER INFILTRATION. DRAINPIPES SHOULD OUTLET TO AN APPROPRIATE DRAINAGE FACILITY. ALTERNATIVELY, WALL BACK-DRAINAGE CAN BE PROVIDED BY PERFORATED DRAINAGE MATERIAL, SUCH AS MIRADRAIN 6000 OR AN APPROVED EQUIVALENT. THE DRAINAGE MATERIAL CAN BE INSTALLED ON THE SOIL FACE OF THE BASEMENT WALL AND SHOULD TERMINATE AT A 4-INCH-DIAMETER PERFORATED PLASTIC PIPE SURROUNDED BY AT LEAST 6 INCHES OF DRAIN ROCK AS DEFINED ABOVE.
- 8. FOR TRENCHES OR EXCAVATIONS FIVE FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR IS TO OBTAIN THE NECESSARY PERMITS FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO THE START OF EXCAVATION.

REINFORCING STEEL

- 1. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
 - DEFORMED BARS ASTM A615, GR60 Fy = 60 KSI
 - DEFORMED BARS IN SFRS ASTM A706, GR 60 Fy = 60 KSI
 - WELDED WIRE REINFORCING ASTM A1064 Fy = 65 KSI
 - EPOXY-COATED BARS ASTM A775 Fy = 60 KSI
 - GALVANIZED-COATED BARS ASTM A787 Fy = 60 KSI
 - STEEL WIRE ASTM A1064 Fy = 60 KSI
- 2. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS.
 - CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 3" EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
 - #6 BARS OR LARGER 2"
 - #5 BARS OR SMALLER 1 1/2"
 - NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
 - SLABS, JOISTS AND WALLS WITH #4 AND #18 BARS 1 1/2"
 - SLABS, JOISTS AND WALLS WITH #1 BARS OR SMALLER 3/4"
 - BEAMS, COLUMNS, PEDESTALS AND TENSION TIES 1 1/2"
- 3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

BAR SIZE	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
	OTHER	TOP	OTHER	TOP	OTHER	TOP
#3	22	28	19	25	17	22
#4	29	38	25	33	23	29
#5	36	47	31	41	28	36
#6	43	56	37	49	34	44

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.

- 4. ALL REINFORCING IN CONCRETE USED FOR THE CONTAINMENT OF WATER SHALL BE HOT-DIP GALVANIZED OR EPOXY-COATED.
- 5. USE LOW HYDROGEN ELECTRODES, GRADE E-90, FOR WELDING OF REINFORCING BARS.

MASONRY

- 1. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR MASONRY CONSTRUCTION SHALL BE:
 - DESIGN ASSEMBLY STRENGTH, fm 2000 PSI
 - INDIVIDUAL CONCRETE MASONRY UNITS 2800 PSI
 - MORTAR 1800 PSI
 - GROUT 2000 PSI
- 2. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - CONCRETE MASONRY UNITS (CMU) ASTM C90, GRADE N-1
 - MORTAR ASTM C270, TYPE S
 - GROUT ASTM C476
 - REINFORCING STEEL ASTM A615, GR 60
 - PLATE AND BENT BAR ANCHORS ASTM A36
 - SHEET METAL ANCHORS AND TIES ASTM A1008
 - WIRE MESH TIES ASTM A1064
 - WIRE TIES AND ANCHORS ASTM A951
 - ANCHOR BOLTS ASTM A307, GRADE A
- 3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS (ASD):
- 4. LOAD BEARING MASONRY SHALL HAVE FULL HEIGHT 9 GAUGE MINIMUM HORIZONTAL REINFORCEMENT NOT TO EXCEED 16" OC VERTICALLY.
- 5. ALL LOAD BEARING MASONRY WALLS TO HAVE FULL BED, HEAD AND COLLAR JOINTS.
- 6. PROVIDE A MINIMUM OF 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND MASONRY UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNO.
- 7. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- 8. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT, AND ALSO WHERE NOTED ON THE DRAWINGS.
- 9. THE MASONRY CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF PRODUCT DATA, REINFORCEMENT DETAILS, AND MIX DESIGNS FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

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- 7. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
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- 9. THE MASONRY CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF PRODUCT DATA, REINFORCEMENT DETAILS, AND MIX DESIGNS FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

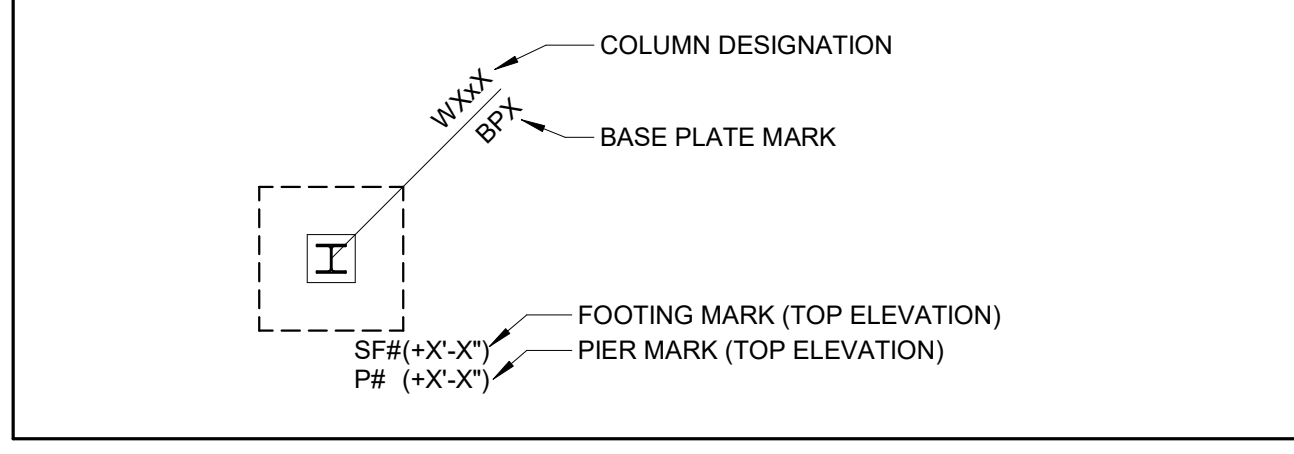
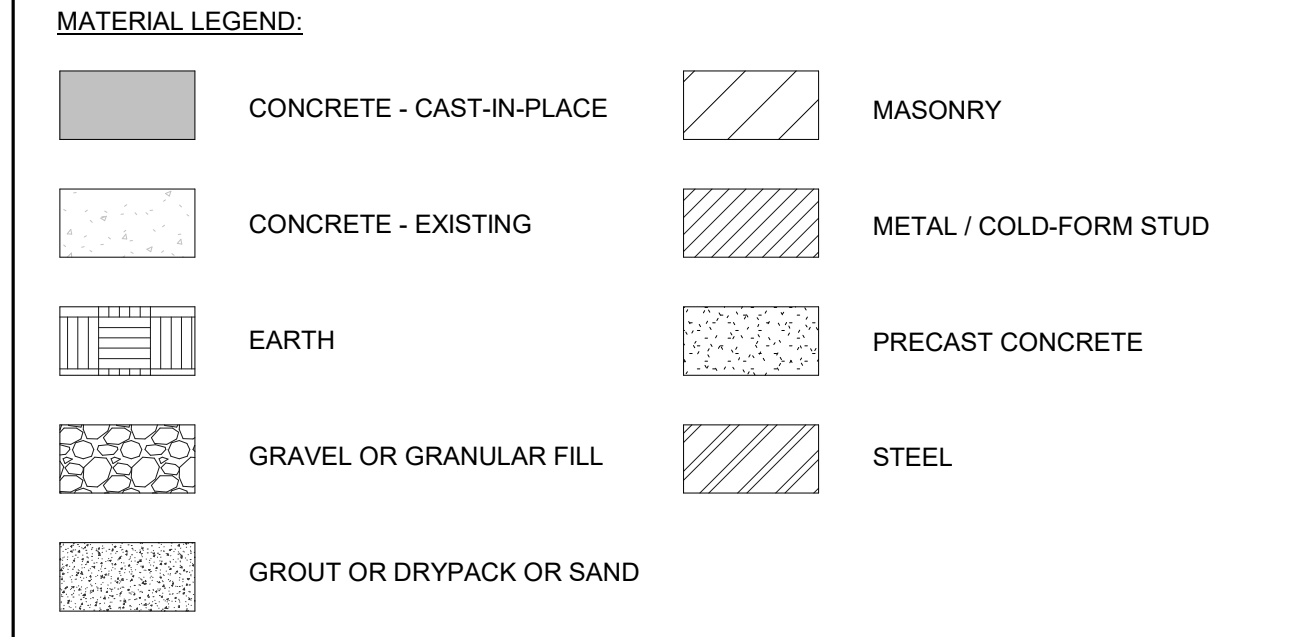
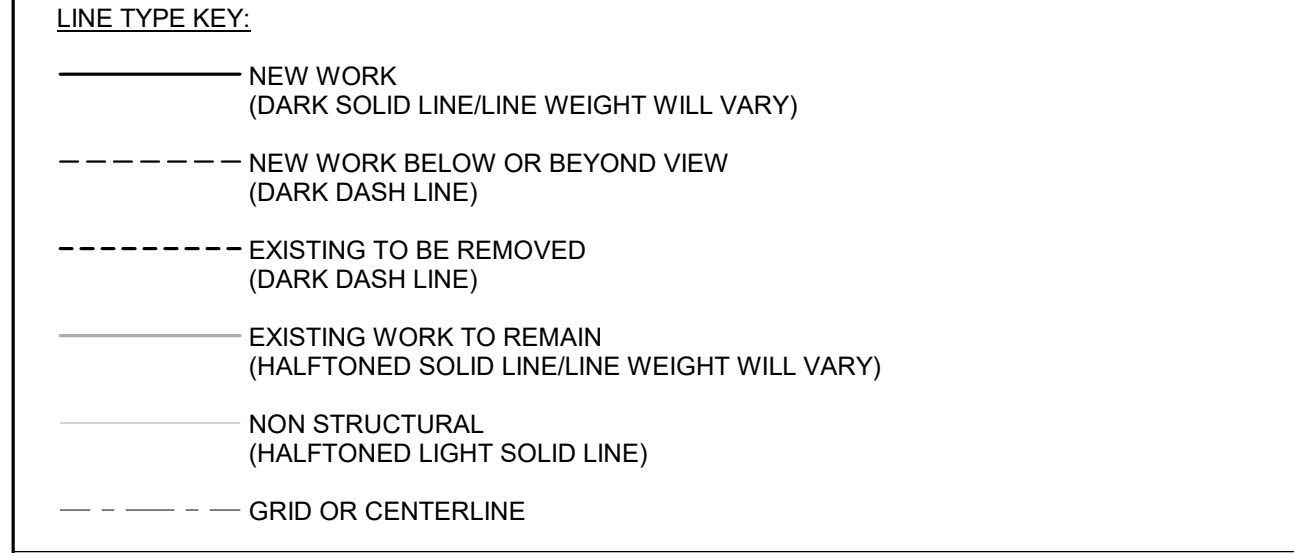
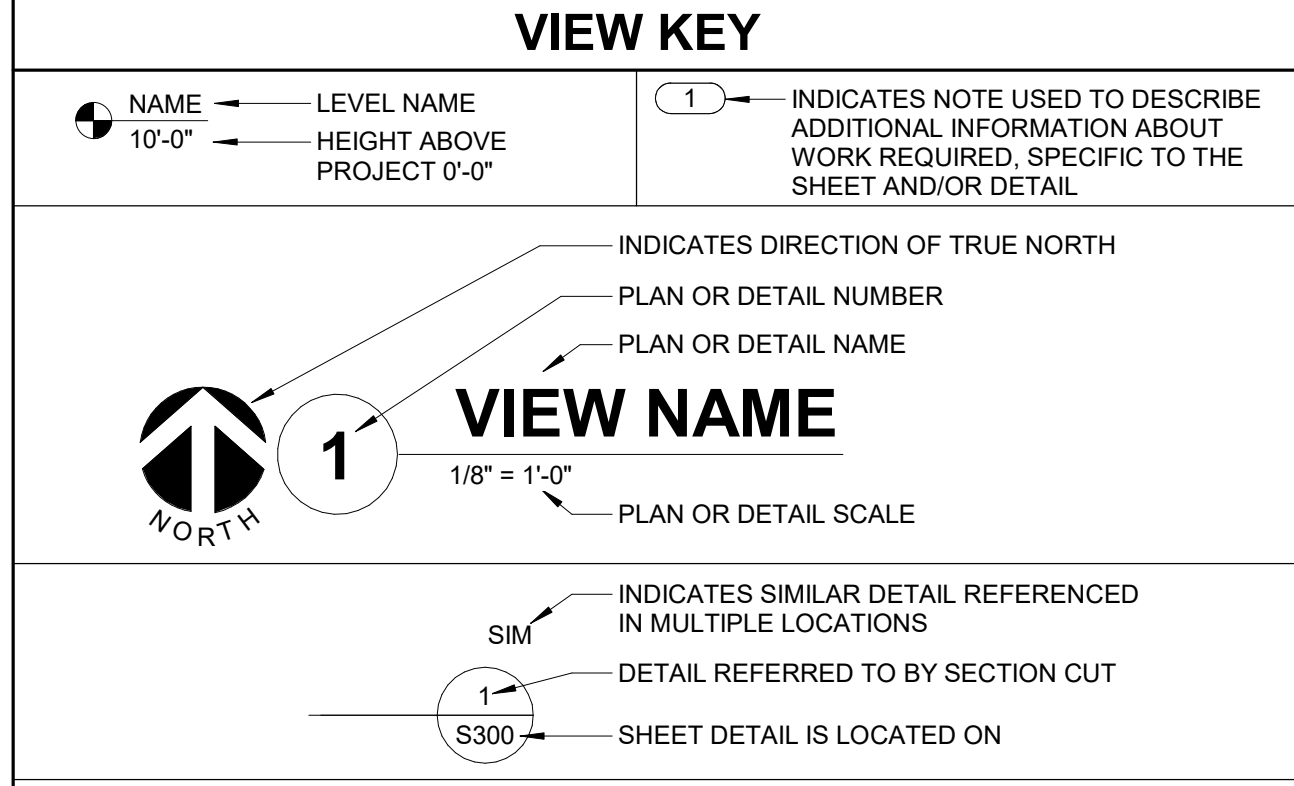
STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:
 - WIDE FLANGE SHAPES ASTM A992 Fy = 50 KSI
 - OTHER ROLLED SHAPES ASTM A36 Fy = 36 KSI
 - PIPE SECTIONS ASTM A53, GR B Fy = 35 KSI
 - HSS SECTIONS, ROUND ASTM A500, GR C Fy = 46 KSI
 - HSS SECTIONS, SQUARE ASTM A500, GR B Fy = 46 KSI
 - BARS AND CONNECTION PLATES ASTM A572 Fy = 50 KSI
 - ANCHOR RODS ASTM F1554, GR 36 Fy = 36 KSI
 - HIGH STRENGTH BOLTS ASTM F3125, GR A325 Fy = 120 KSI
 - HEAVY HEX NUTS ASTM A563
 - WASHERS ASTM F436
 - HEADED STUDS ASTM A108, TYPE B
 - ELECTRODES FOR ARC WELDING AWS 5.1, E70XX
- 2. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
- 3. USE TENSION CONTROL "TWIST-OFF" BOLTS FOR ALL HIGH STRENGTH BOLTS REQUIRING FULL TENSION AS INDICATED ON THE DRAWINGS.
- 4. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325N, UNO FOR ALL DRAG STRUT BOLTS, HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A490SC.
- 5. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
- 6. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
- 7. HEADED STUDS:
 - A. STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND SMALLER AND 3/16" FOR LARGER THAN 5/8". WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE INSPECTION AGENCY.

STEEL DECK

- 1. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWINGS:
 - A. VULCRAFT 2015 VERCO VR4 AND VR5 CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS.
 - B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.
- 2. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G80 ASTM A924 WITH A MINIMUM COATING OF G90.
- 3. PAINTED STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, GRADE C.
- 4. ALL DECK SHALL MEET THE MINIMUM TYPE AND GAUGE INDICATED ON THE DRAWINGS, AND AS FOLLOWS:

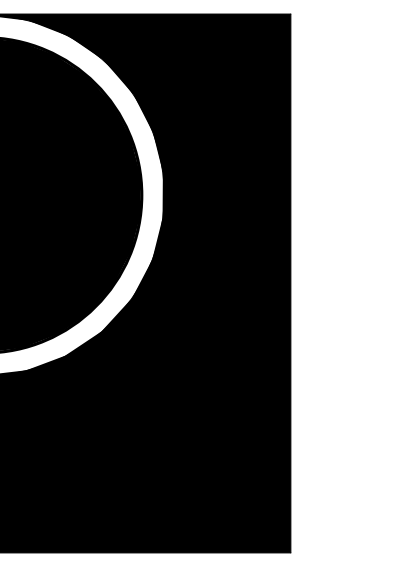
TYPE	GAUGE	Ix	Sx	Fy
1.5" B (ROOF)	22	0.155	0.186	33
	20	0.201	0.234	33
	18	0.289	0.318	33
2" vLI	16	0.373	0.408	33
	22	0.314	0.244	50
	20	0.403	0.326	50
3" vLI	18	0.558	0.485	50
	16	0.704	0.653	40
	22	0.710	0.387	50
	20	0.907	0.512	50
	18	1.252	0.761	50
	16	1.582	1.013	40



STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
Ø	DIAMETER
(E)	EXISTING
A.B.	ANCHOR BOLT
A.H.U.	AIR-HANDLING UNIT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bF	BEAM FLANGE WIDTH
BF	BRACE FRAME
BM	BEAM
B.N.	BOUNDARY NAILING
BOTT	BOTTOM
BTWN	BETWEEN
CFSP	COLD FORM STEEL FRAMING
C.G.S	CENTER OF GRAVITY OF THE TENDON
C.J.P	COMPLETE JOINT PENETRATION WELD
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATION
DIA	DIAMETER
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.A.C.F	EACH FACE
EFF	EFFECTIVE
ELEV	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBED
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
f'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
FLOOR	FLOOR
F.N.	FIELD NAILING
FT	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GAGE	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLULAM BEAM
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSSB	HIGH STRENGTH BOLT
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	POUND
LBS	LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNG	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LENGTH WEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
NFC	NOT IN CONTRACT
NOT	NOT TO SCALE
NTS	ON CENTER
OC	OPPOSITE HAND
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PCF	POUNDS PER CUBIC FOOT
P.H	PENTHOUSE
P.J.P	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PT	POUNDS PER SQUARE INCH
R	PRESSURE TREATED DOUGLAS FIR
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SIM	SIMILAR
SL	SNOW LOAD
S.M.S.	SHEET METAL SCREWS
SP	SPACE(S)
SPEC	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SIM	SIMILAR
T&B	TOP AND BOTTOM
T.O.P	TOP OF
T.O.	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/P	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

PARTNERS



PARTNERS in Architecture, P.L.C

65 MARKET STREET
 MOUNT CLEMENS, MI 48043
 P:586.469.3600

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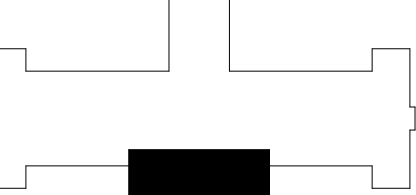
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CONSULTANT



www.imegcorp.com
 33533 W. TWELVE MILE SUITE 200
 FARMINGTON HILLS, MI 48331
 P: 248.344.2800 F: 248.344.1650
 PROJECT #22002867.01

KEY PLAN



OWNER

Hamtramck Public Schools

STRUCTURAL COMPONENT TESTING AND INSPECTION

1. THE FOLLOWING TESTING AND INSPECTION OF STRUCTURAL COMPONENTS IS REQUIRED AS DETAILED IN CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND PROJECT SPECIFICATIONS.

2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.

3. WORK PERFORMED ON THE PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL PER SECTION 1704.2.5.1 OF CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE NEED NOT BE TESTED AND INSPECTED PER THE TABLE BELOW. THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS TO THE BUILDING OFFICIAL AND THE ARCHITECT AND ENGINEER OF RECORD.

DUTIES OF THE SPECIAL INSPECTION AGENCY (IBC CHAPTER 17):

A. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. THE TABLE BELOW SHALL SERVE AS A GUIDELINE FOR THE SCOPE OF THE TESTING AND INSPECTION PROGRAM.

B. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.

C. FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.

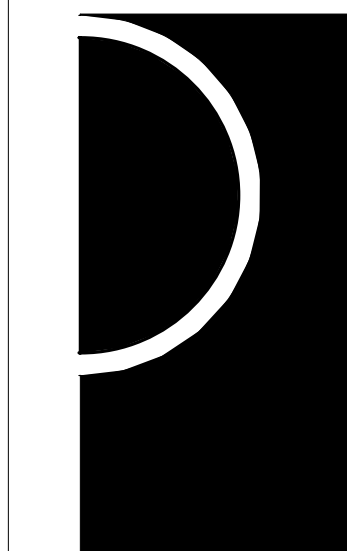
D. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
FOUNDATION PREPARATION				
VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X		
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X			
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PROPERLY PREPARED.		X		
CONCRETE PIER FOUNDATIONS				
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.		X		
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS, LENGTHS, EMBEDMENT INTO BEDROCK, AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.		X		
FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS PER 03200 03 20 00 AND 03300 03 30 00.				
CONCRETE AND CONCRETE PLACEMENT				
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1,2(b)	
INSPECTION OF FABRICATORS AND DURING FABRICATION.		X		1704.2
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
REINFORCING BAR WELDING: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16". C. INSPECT ALL OTHER WELDS.		X X X	AWS D1.4, ACI318: 26.6.4	
REVIEW OF PROPOSED MIX DESIGN AND SUPPORTING TEST RESULTS.		X		
INSPECT ANCHORS CAST IN CONCRETE.		X	ACI 318: 17.8.2	
INSPECTION ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN ROW ABOVE.		X X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	
VERIFYING USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	1908.10
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	ACI 318: 26.5	1908.6, 1908.7, 1908.8
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3 - 26.5.5	1908.9
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X	ACI 318: 26.11.2	
F _r AND F _c SLAB ON GRADE FLATNESS TESTING			ASTM E1155	
WET UNIT WEIGHT TESTING				

STRUCTURAL PRECAST CONCRETE				
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1 - 26.6.3	
REINFORCING BAR WELDING: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16". C. INSPECT ALL OTHER WELDS.		X X X	AWS D1.4, ACI 318: 26.6.4	
INSPECT ANCHORS CAST IN CONCRETE.		X	ACI 318: 17.8.2	
INSPECTION ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN ROW ABOVE.		X X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	
VERIFYING USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	ASTM C172, ASTM C31, ACI 318: 26.4, 26.12	
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X	ACI 318: 26.5	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3 - 26.5.5	
INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS		X X	ACI 318: 26.10 ACI 318: 26.10	
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.9	
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF FORMS.		X	ACI 318: 26.11.2	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1,2(b)	

STRUCTURAL MASONRY (LEVEL B)				
MINIMUM TESTS				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT.				
VERIFICATION OF f _m AND F _{ACG} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.				
MINIMUM SPECIAL INSPECTIONS				
STRUCTURAL MASONRY (LEVEL B)				
		CONTINUOUS	PERIODIC	REFERENCE FOR CRITERIA
				ACI 530/ ASCE 5/ TMS 402
INSPECTION TASK				
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS			X	ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR. B. CONSTRUCTION OF MORTAR JOINTS. C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. E. PRESTRESSING TECHNIQUE. F. PROPERTIES OF THIN-BED MORTAR FOR ACC MASONRY.			X X X X X	ART. 2.1, 2.6A ART. 3.3B ART. 2.4B, 2.4H ART. 3.4, 3.6A ART. 3.6B ART. 2.1C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES. C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.			X X X	SEC. 6.1 SEC. 6.1, 6.2.1, 6.2.6, 6.2.7
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. E. CONSTRUCTION OF MORTAR JOINTS.			X X	ART. 2.6B, 2.4 G.1.b ART. 3.3B
4. VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. C. WELDING OF REINFORCEMENT. D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F OR HOT WEATHER (TEMPERATURE ABOVE 90°F)). E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IN COMPLIANCE. G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.			X X X X X	ART. 3.3F SEC. 1.2.1(e), 6.1.4.3, 6.2.1 SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND /OR PRISMS.			X	ART. 1.4B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

PARTNERS



PARTNERS in Architecture, P.L.C.

65 MARKET STREET
MOUNT CLEMENS, MI 48043
P: 586.469.3600

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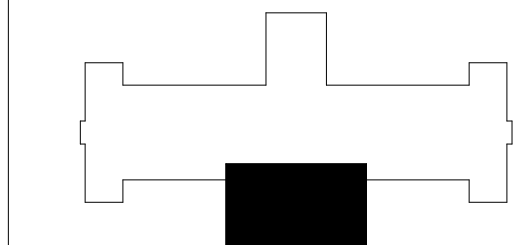
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FARMINGTON HILLS, MI 48331
P: 248.344.2800 F: 248.344.1650
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Hamtramck
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PROJECT NAME

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MI-Kosciuszko MS

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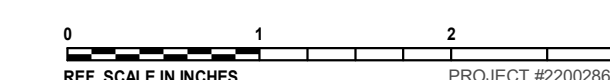
SHEET NAME

STRUCTURAL
INSPECTION
SCHEDULES

SHEET NO.

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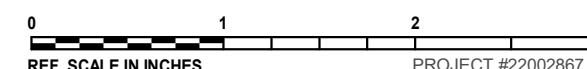
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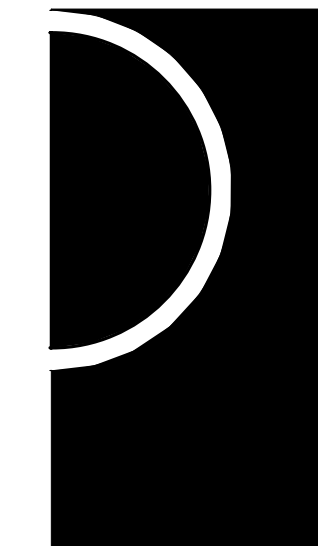
AISC 360 - CHAPTER N: STRUCTURAL STEEL QUALITY ASSURANCE			
O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.			
P - PERFORM THESE TASKS FOR EACH WELDED JOINT MEMBER.			
INSPECTION TASKS PRIOR TO WELDING			
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	P		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P		
MATERIAL IDENTIFICATION (TYPE / GRADE)	O		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O		
<ul style="list-style-type: none"> JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) 			
CONFIGURATION AND FINISH OF ACCESS HOLES	O		
FIT-UP OF FILLET WELDS	O		
<ul style="list-style-type: none"> DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) 			
INSPECTION TASKS DURING WELDING			
USE OF QUALIFIED WELDERS	O		
CONTROL AND HANDLING OF WELDING CONSUMABLES	O		
<ul style="list-style-type: none"> PACKAGING EXPOSURE CONTROL 			
NO WELDING OVER CRACKED TACK WELDS	O		
ENVIRONMENTAL CONDITIONS	O		
<ul style="list-style-type: none"> WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE 			
WPS FOLLOWED	O		
<ul style="list-style-type: none"> SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE / FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX.) PROPER POSITION (F,V,H,OH) 			
WELDING TECHNIQUES	O		
<ul style="list-style-type: none"> INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS 			
INSPECTION TASKS AFTER WELDING			
WELDS CLEANED	O		
SIZE, LENGTH, AND LOCATION OF WELDS	P		
WELDS MEETS VISUAL ACCEPTANCE CRITERIA	P		
<ul style="list-style-type: none"> CRACK PROHIBITION WELD / BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY 			
ARC STRIKES	P		
K-AREA: WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD	P		
BACKING REMOVED AND WELD TABS REMOVED AND FINISHED (IF REQUIRED)	P		
REPAIR ACTIVITIES	P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P		
NONDESTRUCTIVE TESTING OF WELDED JOINTS			
FOR STRUCTURES IN RISK CATEGORY III OR IV, ULTRASONIC TESTING SHALL BE PERFORMED ON ALL CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 IN. THICK OR GREATER. REFER TO AISC 360-10, SECTION N.5E FOR REDUCTION OF RATE OF ULTRASONIC TESTING.			
FOR STRUCTURES IN RISK CATEGORY II, ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 IN. THICK OR GREATER. REFER TO AISC 360-10, SECTION N.5F FOR INCREASE IN THE RATE OF ULTRASONIC TESTING.			
THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING OR PENETRANT TESTING, WHEN THE FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE.			
WELDED JOINT SUBJECTED TO FATIGUE SHALL BE TESTED BY RADIOGRAPHIC OR ULTRASONIC INSPECTION. THE REDUCTION RATE OF ULTRASONIC TESTING IS PROHIBITED.			
INSPECTION TASKS PRIOR TO BOLTING			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	P		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	O		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	O		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	O		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	O		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS.	O		
INSPECTION TASKS DURING BOLTING			
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	O		
JOINT BROUGHT TO THE SNUG CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	O		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	O		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGE.	O		
INSPECTION TASKS AFTER BOLTING			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	P		
OTHER INSPECTION TASKS			
INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED	P		
INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	O		
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT			
PLACEMENT AND INSTALLATION OF STEEL DECK.	P		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	P		
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	P		
AISC 341 – APPENDIX Q: ADDITIONAL QUALITY ASSURANCE ITEMS FOR SEISMIC RESISTANCE			
INSPECTION TASKS DURING WELDING			
WPS FOLLOWED – INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED.	O		
INSPECTION TASKS AFTER WELDING			
WELDER IDENTIFICATION LEGIBLE	O		
PLACEMENT OF REINFORCEMENT FILLETS.	P		
OTHER INSPECTION TASK			
REDUCED BEAM SECTION (RBS) REQUIREMENTS, IF APPLICABLE	P		
<ul style="list-style-type: none"> CONTOUR AND FINISH DIMENSIONAL TOLERANCES. 			
PROTECTED ZONE – NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY CONTRACTOR.	P		
	CONTINUOUS		
	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
END CONNECTION - WELDING OR BOLTED			SJI SPECIFICATIONS LISTED IN SECTION 2207.1
BRIDGING - HORIZONTAL OR DIAGONAL			
A. STANDARD BRIDGING		X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
B. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X	
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	X		1705.12

STEEL DECK			
SDI - QA / QC STANDARD FOR STEEL DECK INSTALLATION			
O - OBSERVE THESE ITEMS ON AN INTERMITTENT BASIS			
P - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.			
INSPECTION TASKS PRIOR TO DECK PLACEMENT			
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	P		
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	P		
INSPECTION TASKS AFTER DECK PLACEMENT			
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	P		
VERIFY COMPLIANCE OF DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	P		
DOCUMENTS ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	P		
INSPECTION TASKS PRIOR TO WELDING			
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	O		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	O		
MATERIAL IDENTIFICATION (TYPE / GRADE)	O		
CHECK WELDING EQUIPMENT	O		
INSPECTION TASKS DURING WELDING			
USE OF QUALIFIED WELDERS	O		
CONTROL OF HANDLING OF WELDING CONSUMABLES	O		
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	O		
WPS FOLLOWED	O		
INSPECTION TASKS AFTER WELDING			
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	P		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	P		
VERIFY REPAIR ACTIVITIES	P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	P		
INSPECTION TASKS PRIOR TO MECHANICAL FASTENING			
MANUFACTURER INSTALLATION INSTRUCTIONS ARE AVAILABLE FOR MECHANICAL FASTENERS	O		
PROPER TOOLS ARE AVAILABLE FOR FASTENERS INSTALLATION	O		
PROPER STORAGE FOR MECHANICAL FASTENERS	O		
INSPECTION TASKS DURING MECHANICAL FASTENING			
FASTENERS ARE POSITIONED AS REQUIRED	O		
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	O		
INSPECTION TASKS AFTER MECHANICAL FASTENING			
CHECKING SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	P		
CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	P		
CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	P		
VERIFY REPAIR ACTIVITIES	P		
DOCUMENTS ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	P		
INSPECTION TASKS FOR SEISMIC RESISTANCE			
FOR STRUCTURES IN SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT DIAPHRAGMS THAT ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM	P		

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PARTNERS in Architecture, PLC

66 MARKET STREET
MOUNT CLEMENS, MI 48043
P:586.469.3600

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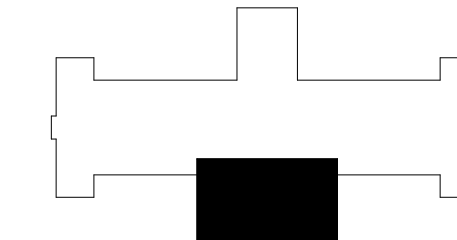
CONSULTANT



www.imegcorp.com

23533 W. TWELVE MILE
SUITE 200
FARMINGTON HILLS, MI 48331
P: 248.344.2800 F: 248.344.1650
PROJECT #22002867.01

KEY PLAN



OWNER

Hamtramck
Public Schools

PROJECT NAME

HPS-Hamtramck-
MI-Kosciuszko MS

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.

22002867.01

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

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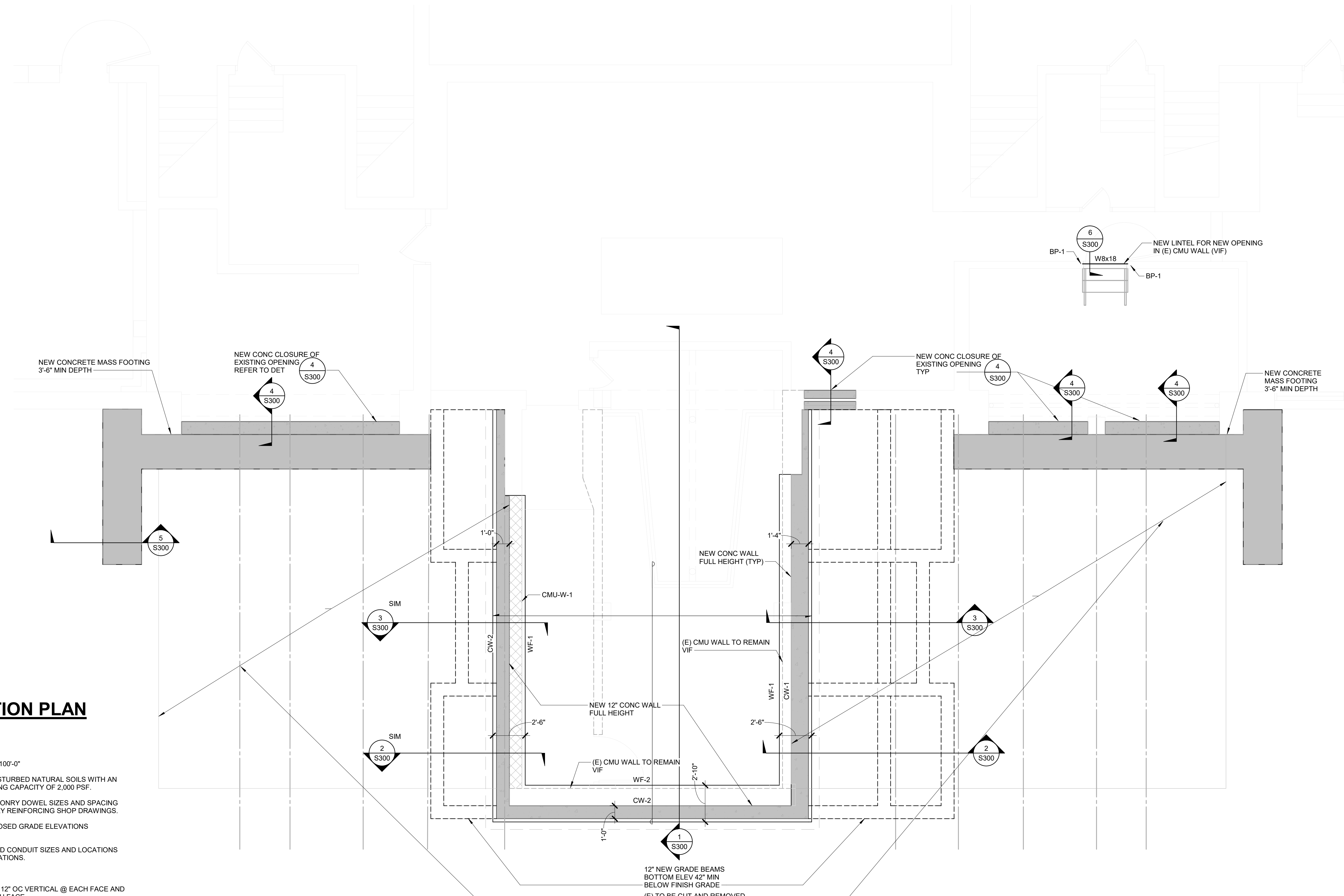
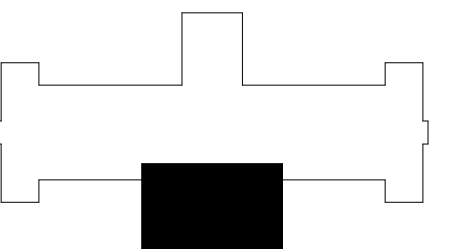
AN

SHEET NAME

STRUCTURAL
INSPECTION
SCHEDULES

SHEET NO.

S002



1 PARTIAL FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION NOTES:

- REFERENCE FINISHED FLOOR ELEVATION = 100'-0"
- FOOTING ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2,000 PSF.
- CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
- REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
- REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.

6. DESIGNATIONS:

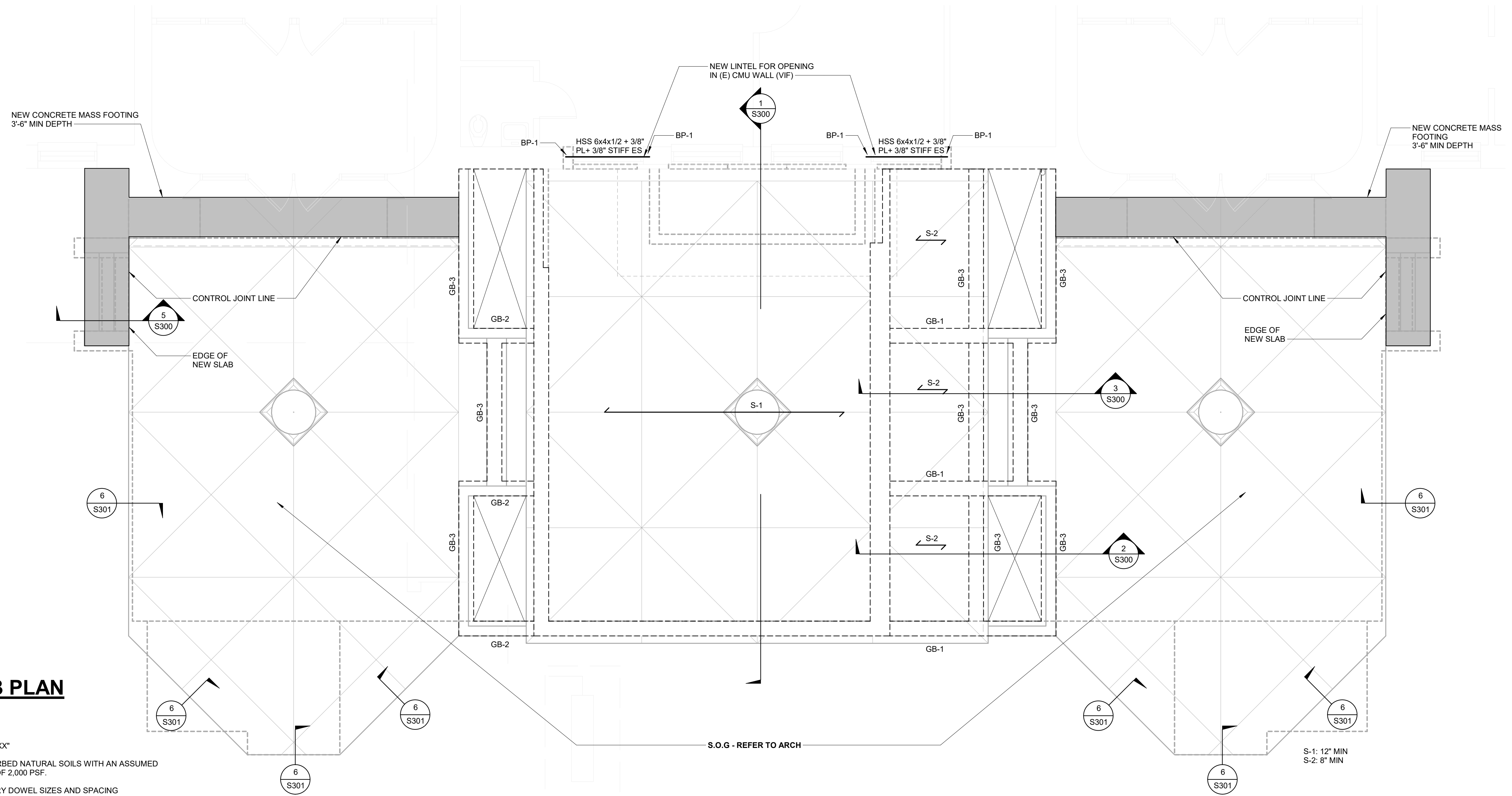
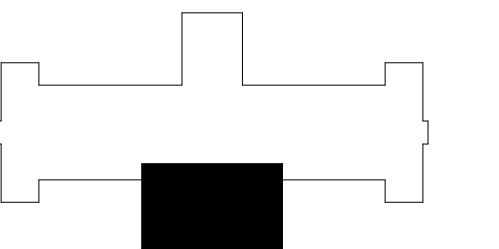
- CW-1: 16" WIDE CONC WALL WITH #5 @ 12" OC VERTICAL @ EACH FACE AND #4 @ 12" OC HORIZONTAL @ EACH FACE
- CW-2: 12" WIDE CONC WALL WITH #5 @ 12" OC VERTICAL @ EACH FACE AND #4 @ 12" OC HORIZONTAL @ EACH FACE
- WF-1: 2'-6" (MIN.) WIDE x 1'-0" THICK WALL FOOTING WITH (3) #5 EW T&B CONT
- WF-2: 2'-10" (MIN.) WIDE x 1'-0" THICK WALL FOOTING WITH (3) #5 EW T&B CONT
- CMU-W-1: 12" CMU WALL FULLY GROUTED W/ #5 VERT REIN @ 24" OC

7. REFERENCE DRAWINGS:

- S000 GENERAL STRUCTURAL NOTES
- S001, S002 SPECIAL INSPECTION SCHEDULES
- S300 GENERAL SECTIONS AND DETAILS
- S301 TYPICAL CONCRETE DETAILS

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0 1 2 3
REF. SCALE IN INCHES PROJECT #22002867.01



1 PARTIAL TOP SLAB PLAN
1/4" = 1'-0"

FOUNDATION NOTES:

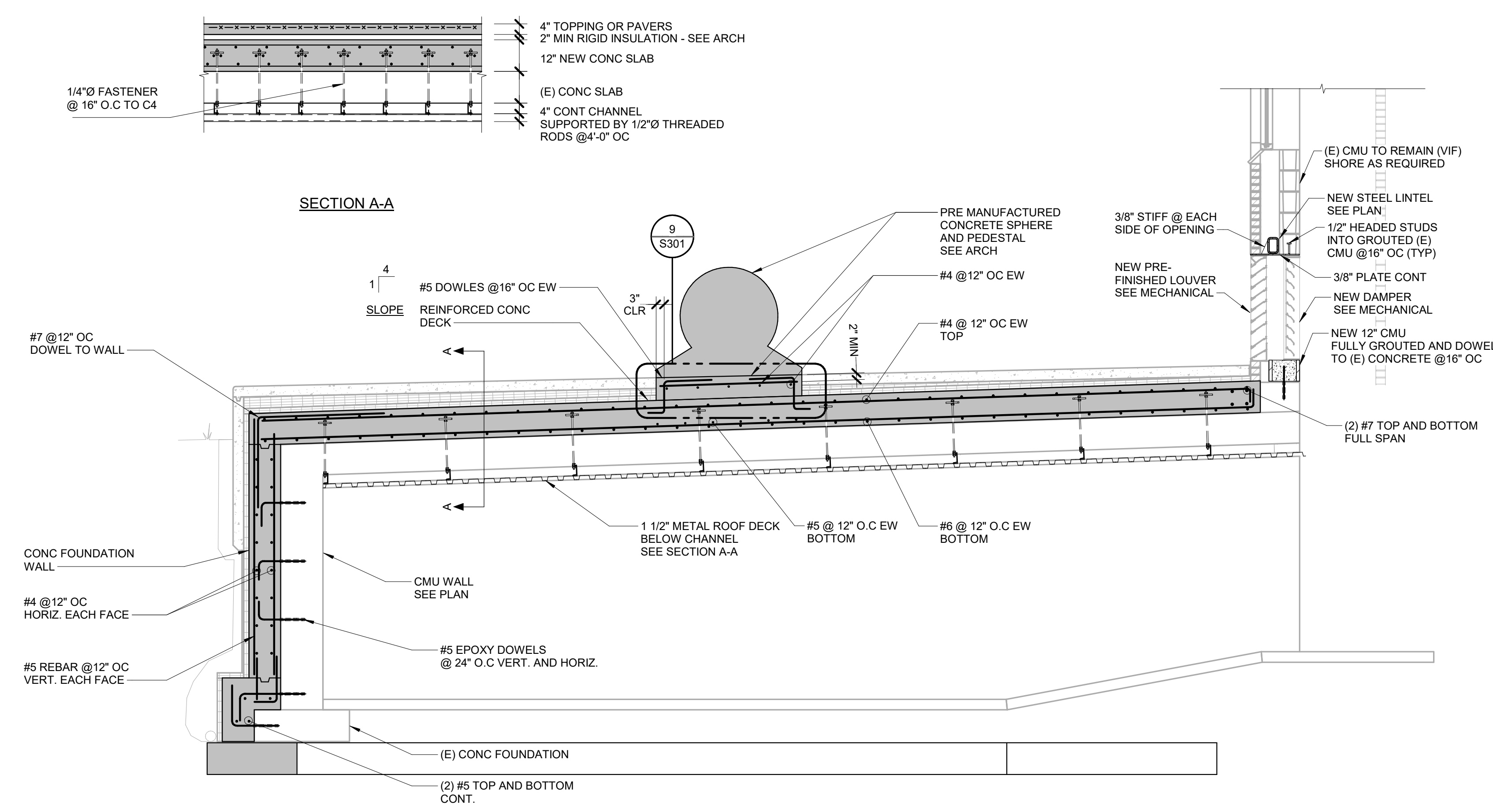
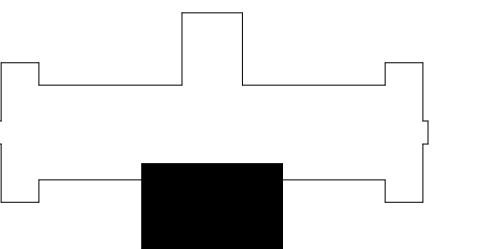
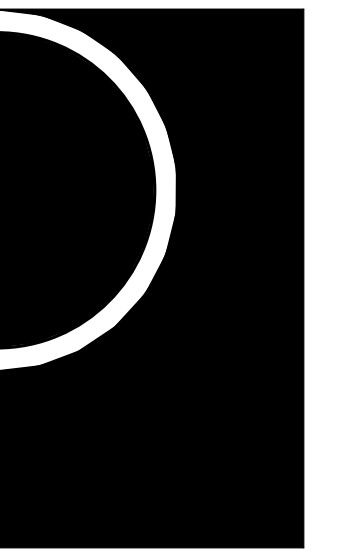
- REFERENCE FINISHED FLOOR ELEVATION = XX'-XX"
- FOOTING ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2,000 PSF.
- CONTRACTOR SHALL COORDINATE ALL MASONRY DOWEL SIZES AND SPACING TO BE CAST INTO CONCRETE WITH MASONRY REINFORCING SHOP DRAWINGS.
- REFER TO CIVIL/SITE DRAWINGS FOR PROPOSED GRADE ELEVATIONS AROUND THE PERIMETER OF THE BUILDING.
- REFER TO MEP DRAWINGS FOR ALL PIPE AND CONDUIT SIZES AND LOCATIONS PASSING THROUGH AND/OR UNDER FOUNDATIONS.

DESIGNATIONS:

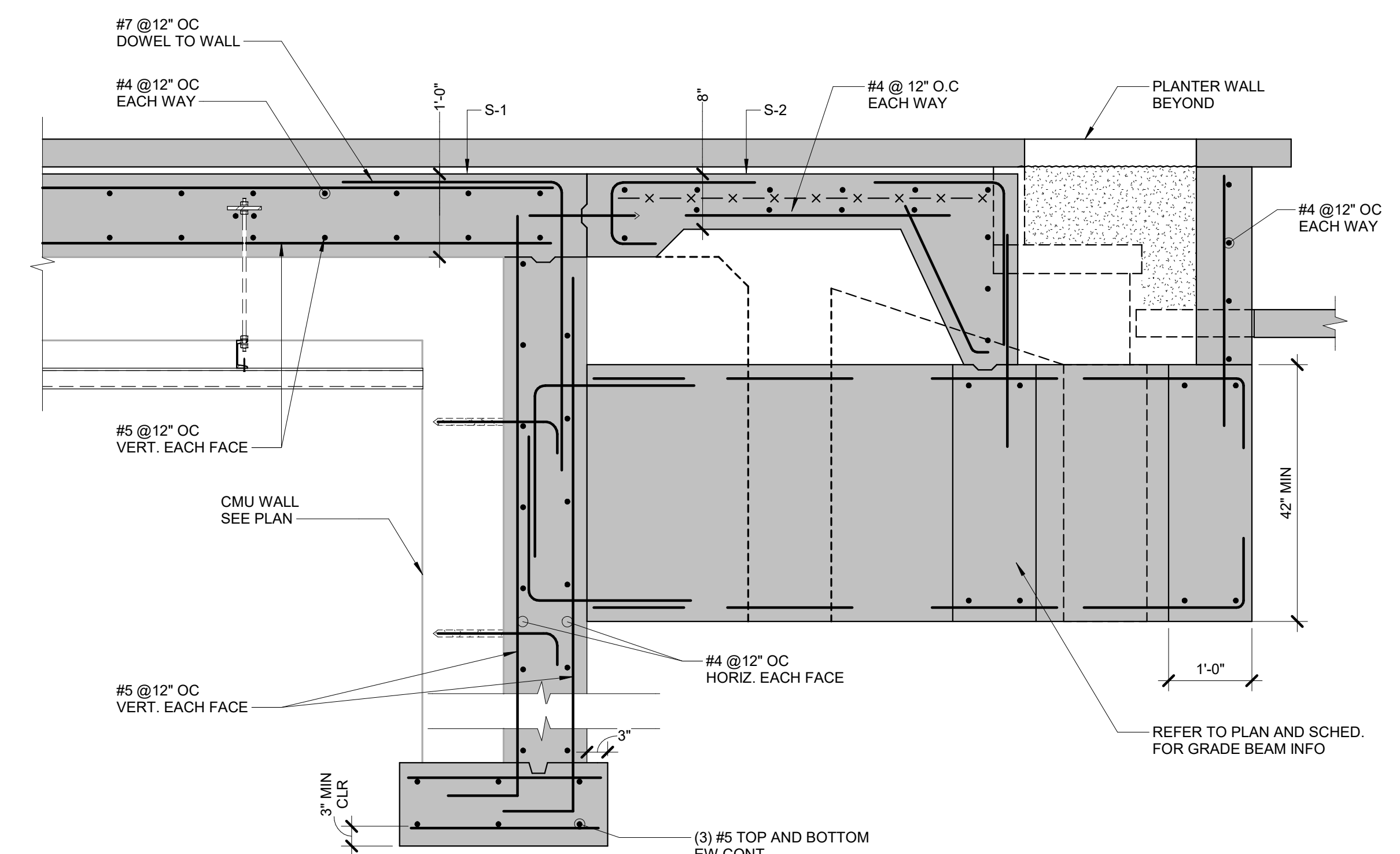
- S-1 12" THICK WITH #6 @ 12" OC BOTTOM AND #4 @ 12" OC TOP AND #7 @ 12" OC TOP & BOTT DOWEL TO EACH END
- S-2 8" THICK WITH #4 @ 12" EACH WAY BOTTOM AND 6X6- W2.1 XW2.1 WWF
- GB-1 (3) #6 TOP AND (3) #5 BOTTOM REIN - DOWEL TO CONCRETE WALL
- GB-2 (2) #6 TOP AND (2) #5 BOTTOM REIN - DOWEL TO CONCRETE WALL
- GB-3 (2) #5 TOP AND BOTTOM
- BP-1 8"x8"x1/2" BEARING PLATE W/ (2) 3/4" HEADED STUDS INTO FULLY GROUTED (E) CMU

REFERENCE DRAWINGS:

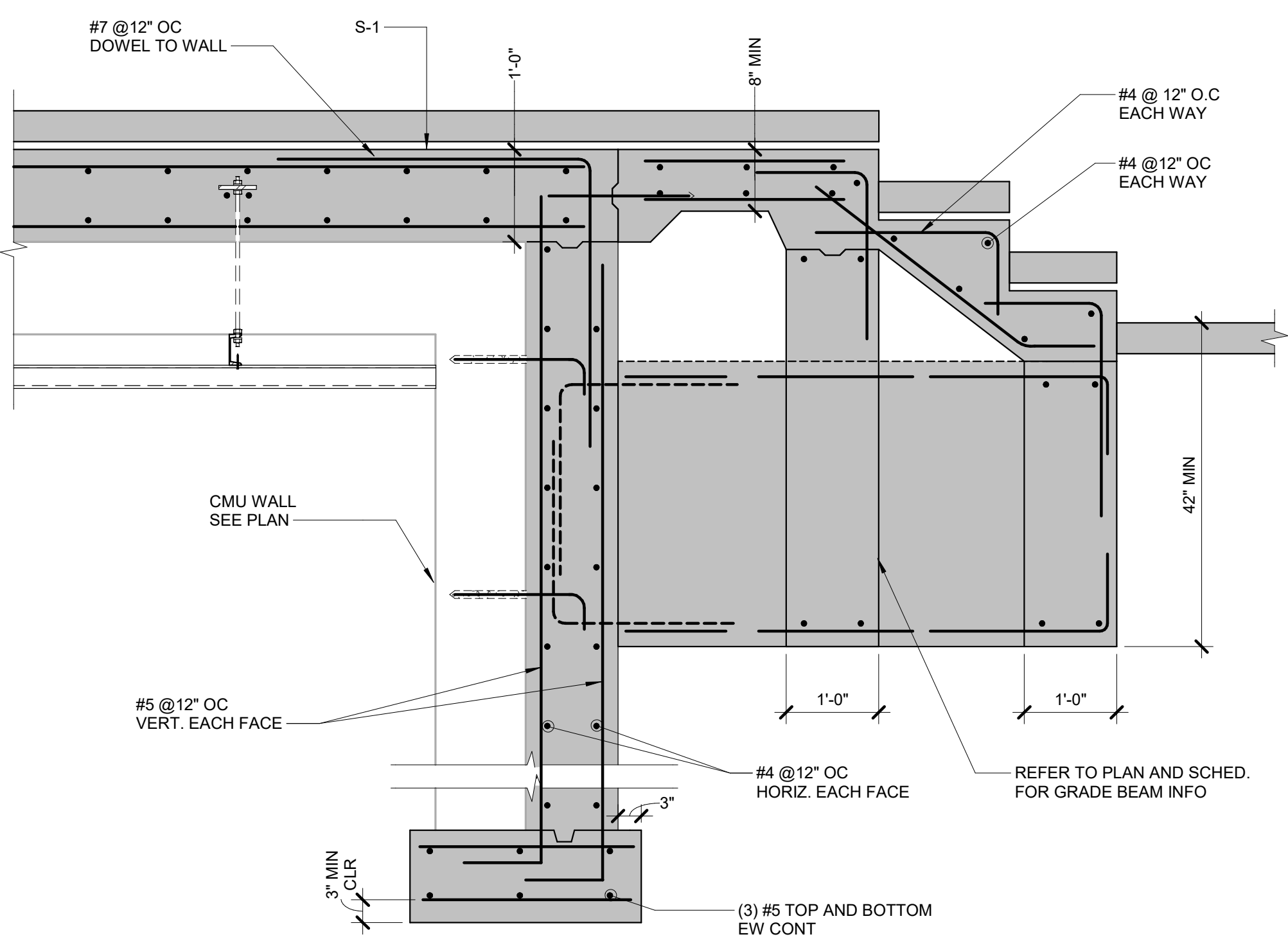
- S000 GENERAL STRUCTURAL NOTES
- S001, S002 SPECIAL INSPECTION SCHEDULES
- S300 GENERAL SECTIONS AND DETAILS
- S301 TYPICAL CONCRETE DETAILS



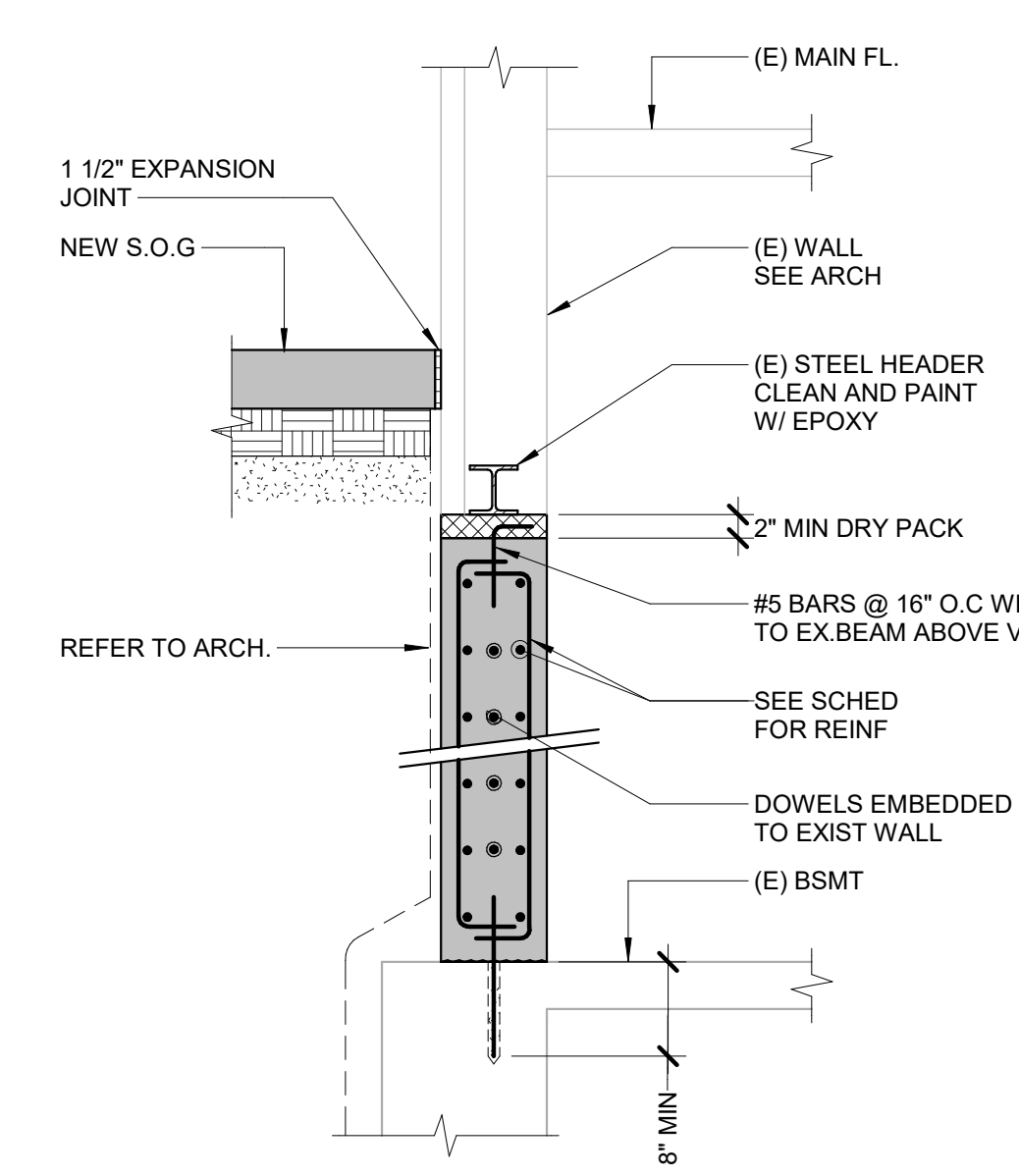
1 SECTION
3/8" = 1'-0"



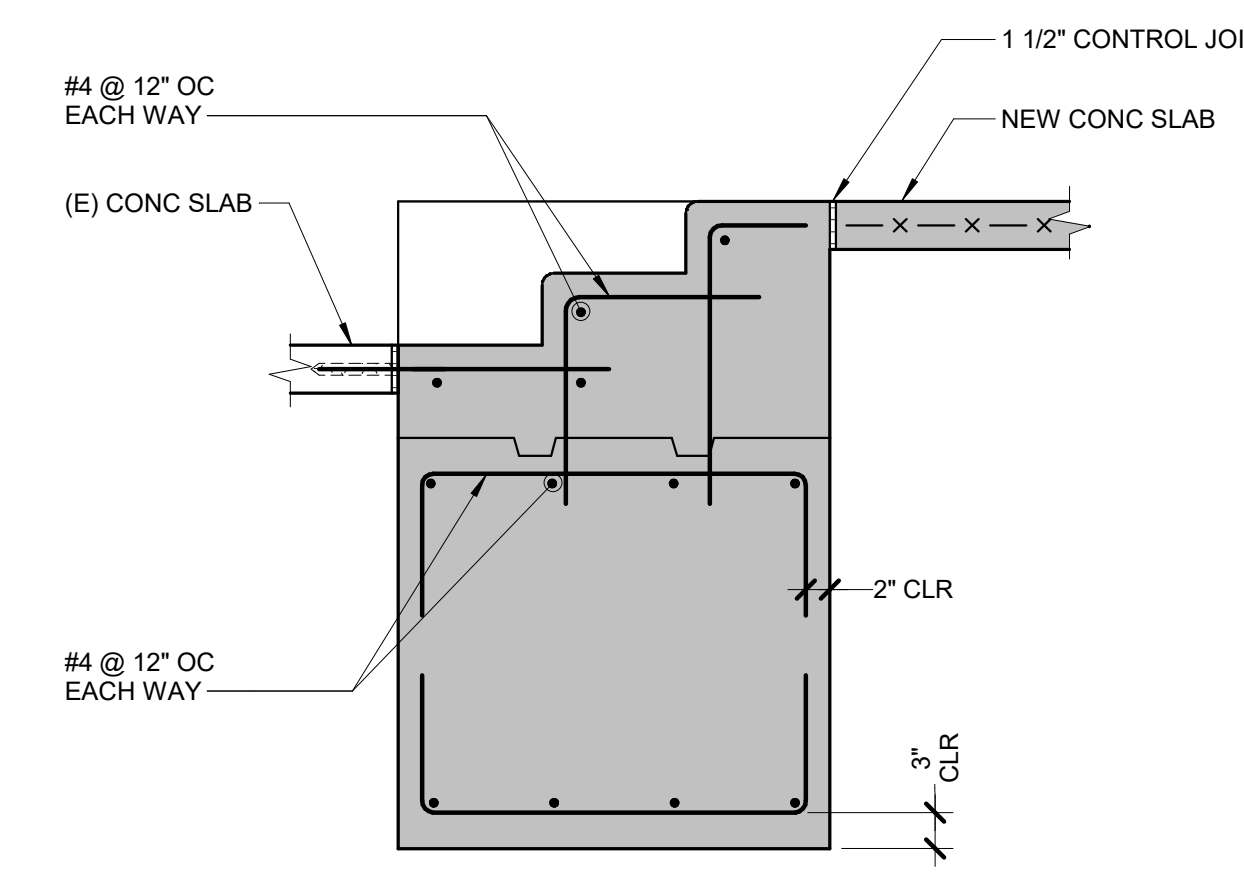
2 SECTION
3/4" = 1'-0"



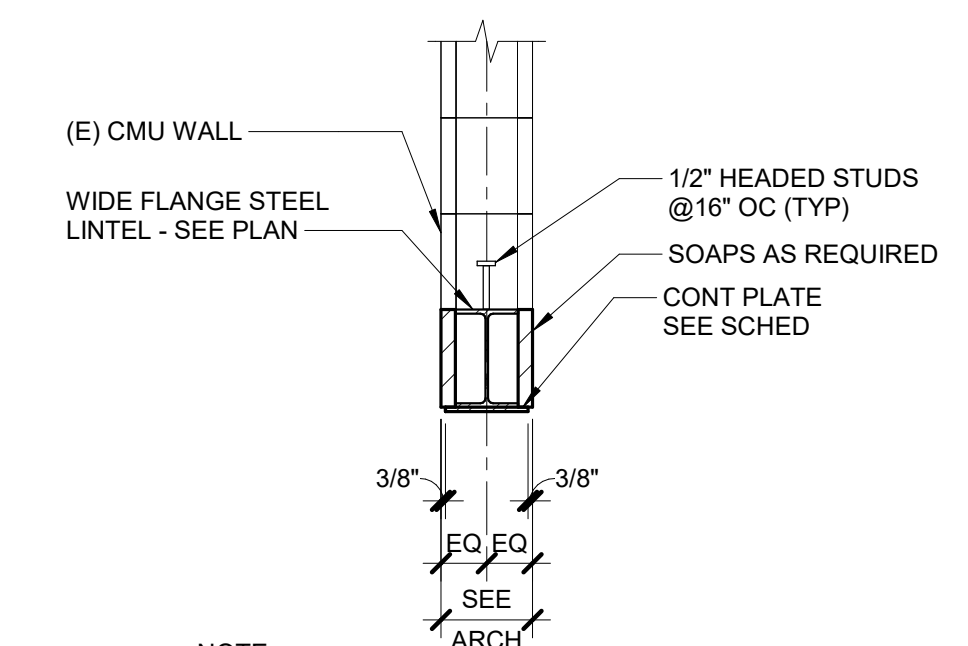
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



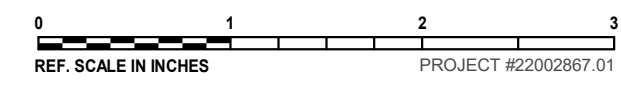
5 SECTION AT STAIR STEPS
3/4" = 1'-0"

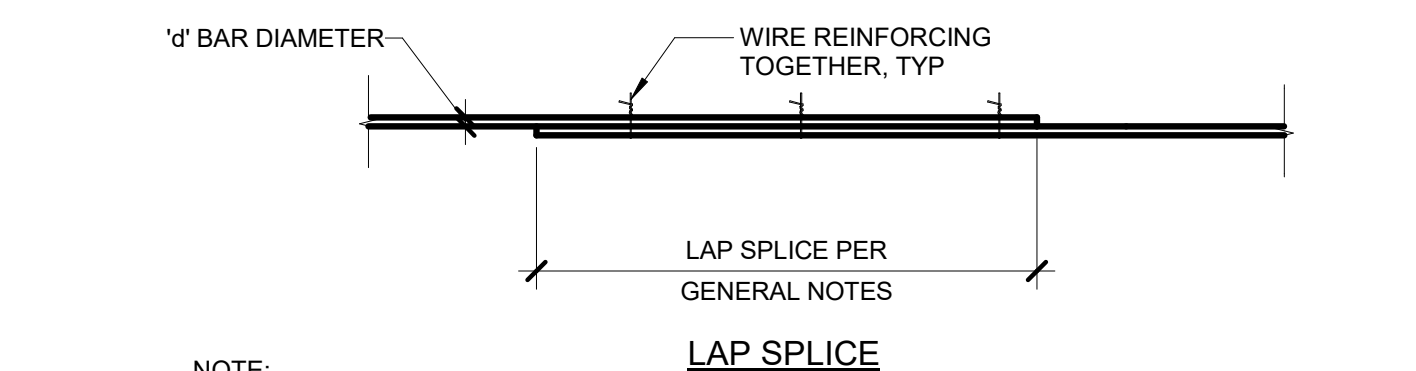
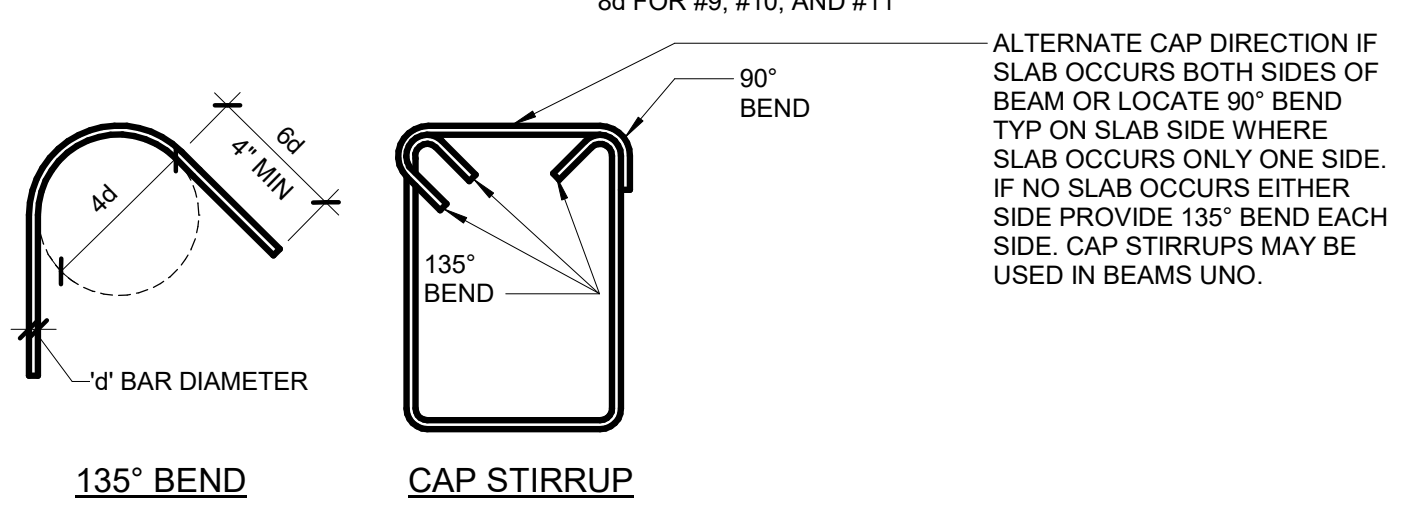
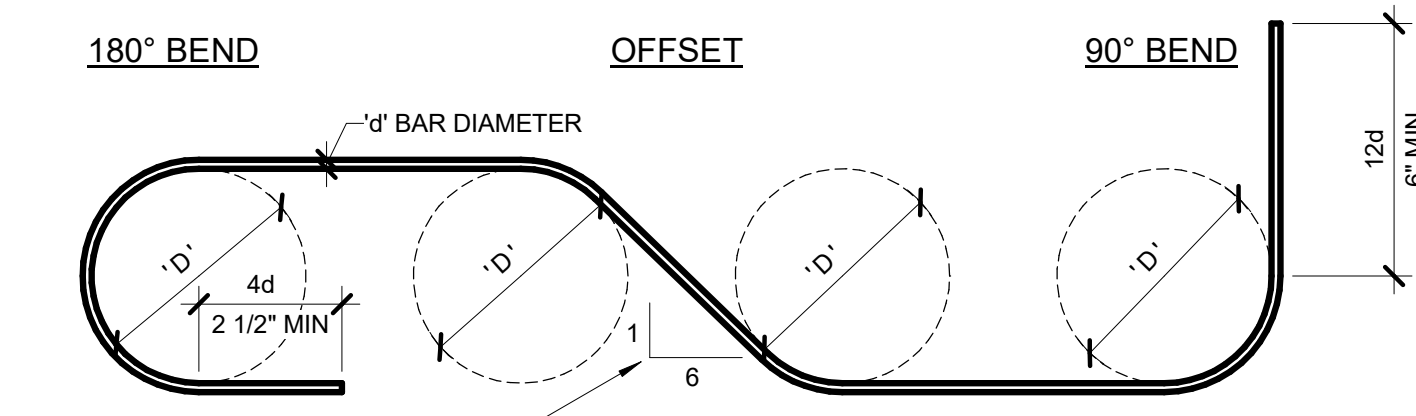


6 WIDE FLANGE LINTEL DETAIL AT EXISTING
3/4" = 1'-0"

NOTE:
1. (E) WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.

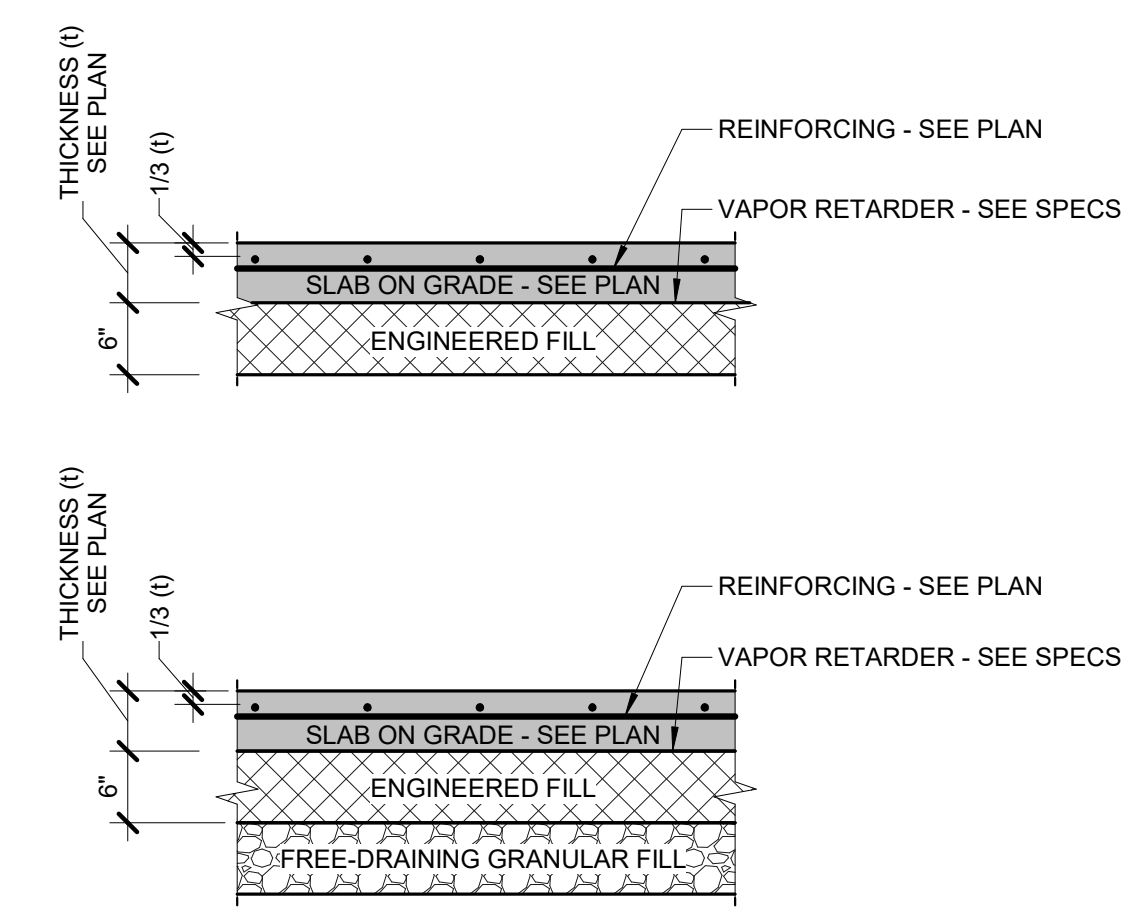
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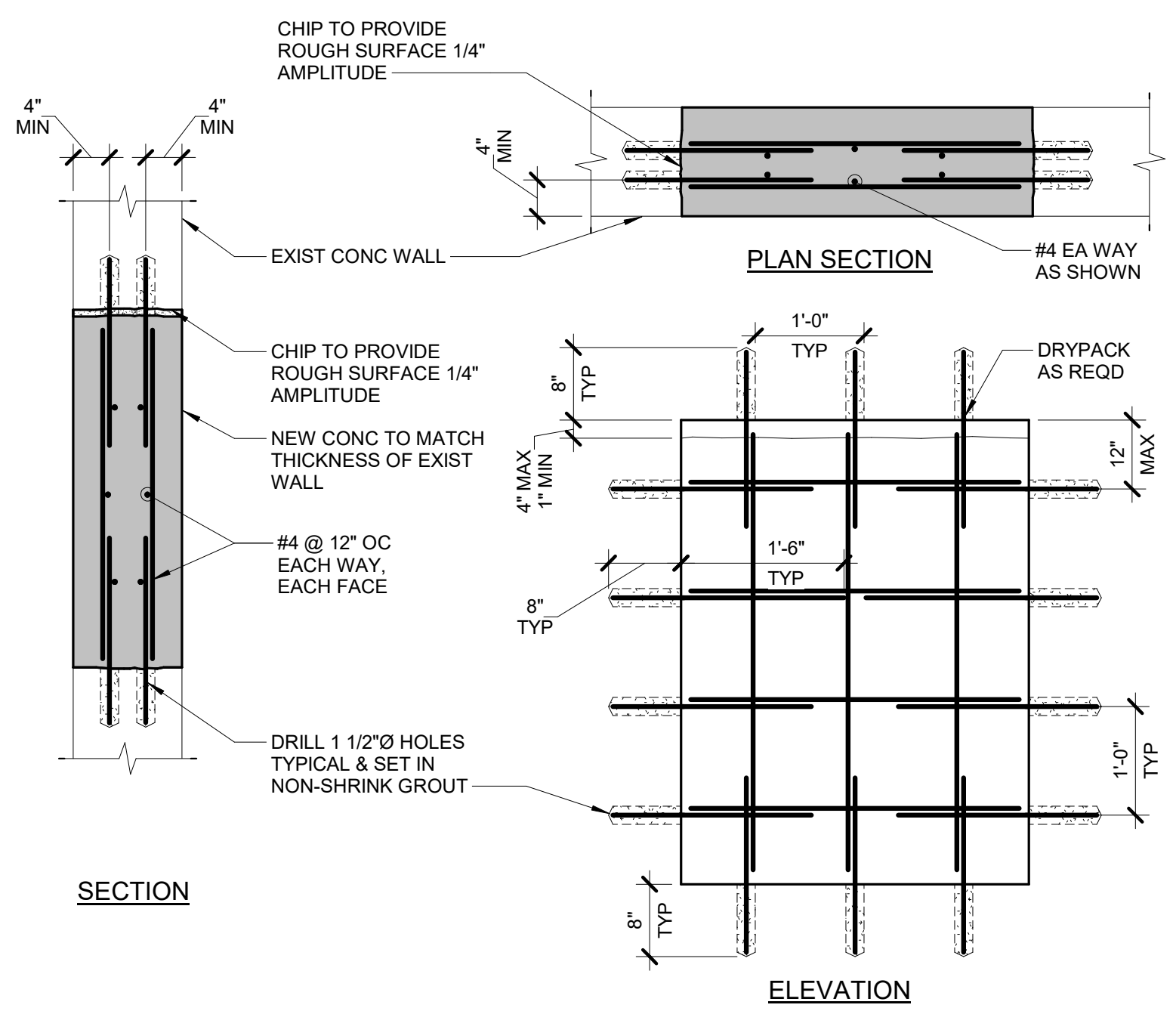
NOTE:
 1. ALL HOOKS, BENDS AND LAPS SHALL BE AS INDICATED UNLESS SPECIFICALLY NOTED ON DETAIL. FOR LIGHTWEIGHT CONCRETE, MULTIPLY VALUE FROM THE GENERAL NOTES TABLE BY 1.18.

1 TYPICAL REINFORCING DETAILS
 3/4" = 1'-0"

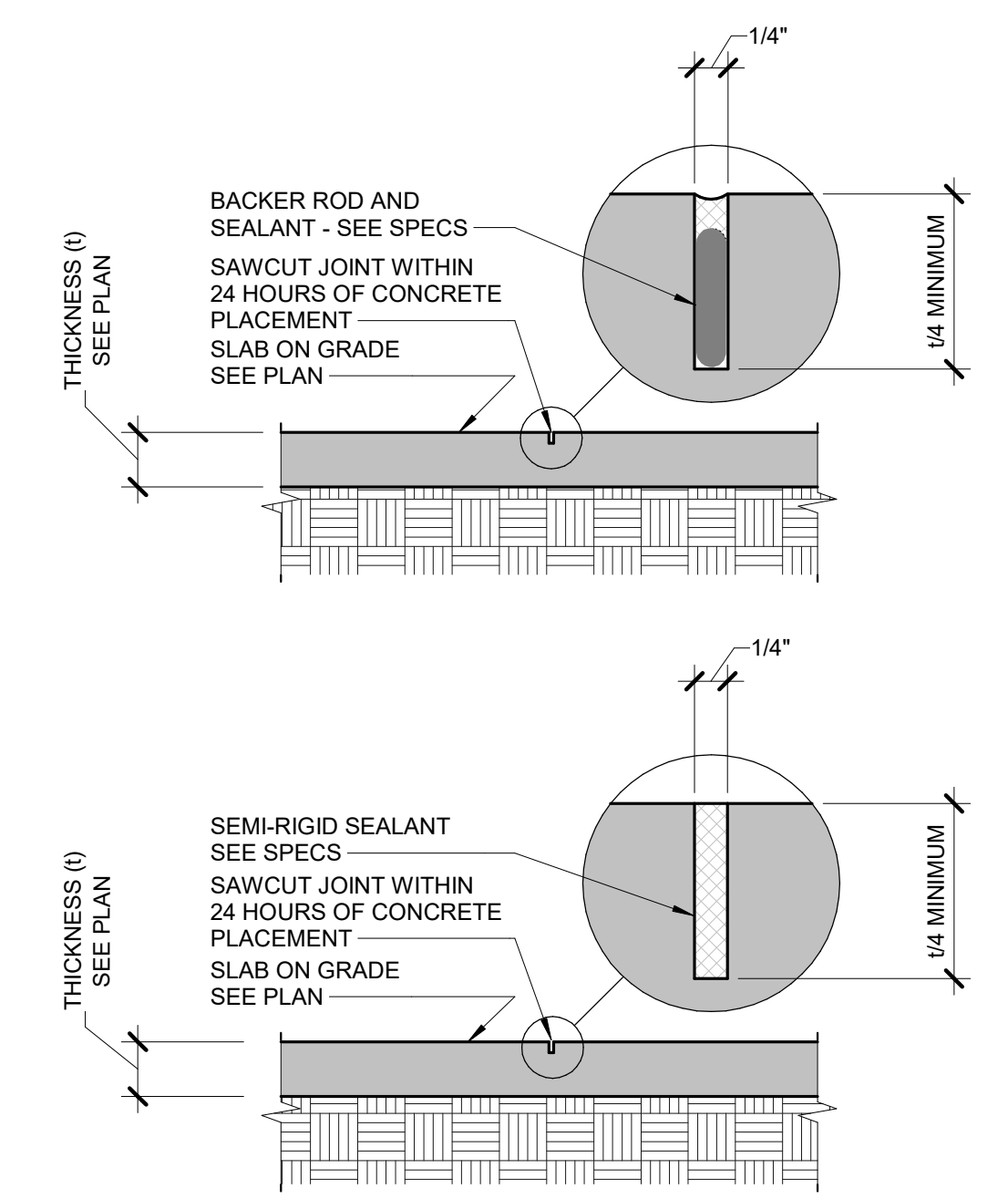


NOTES:
 1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.
 2. COMPACT ALL FILL MATERIAL TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557.
 3. VAPOR RETARDER TO MEET ASTM E1745, CLASS A AND BE NOT LESS THAN 15 MILS THICK.

2 TYPICAL SLAB SECTION
 3/4" = 1'-0"

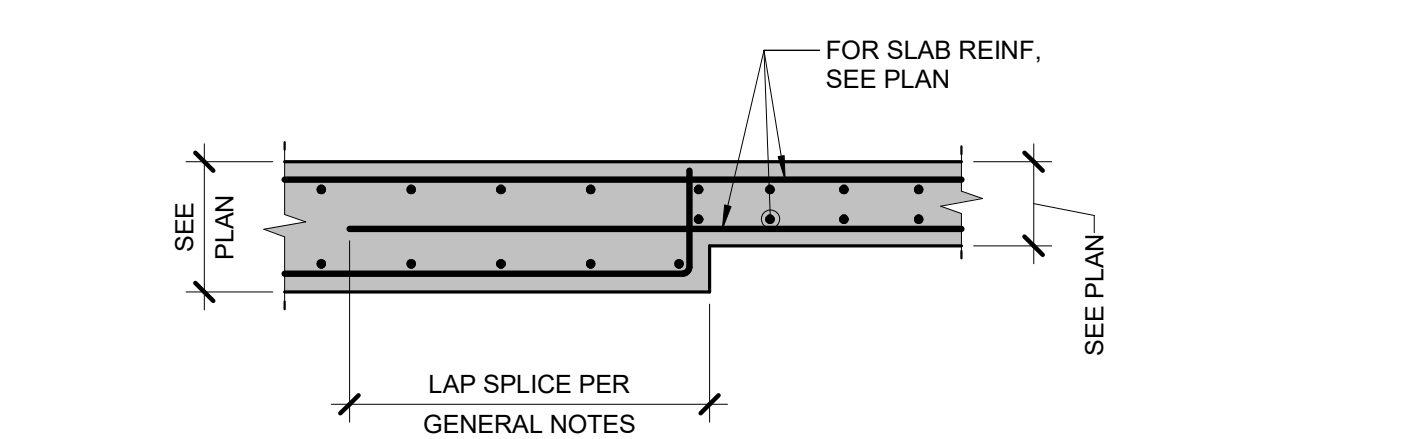


3 INFILL OF EXISTING OPENING
 3/4" = 1'-0"

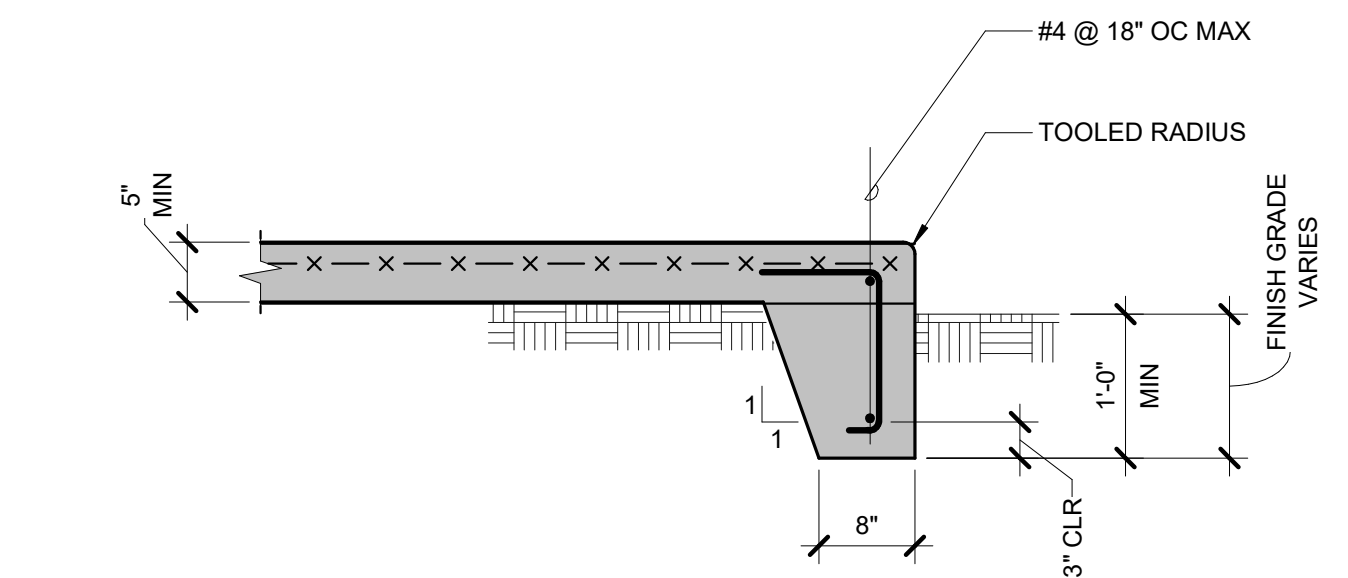


NOTES:
 1. SEE CAST-IN-PLACE CONCRETE GENERAL NOTES CONCERNING LOCATION OF JOINTS.
 2. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL PRIOR TO POURING CONCRETE FOR ALL CONSTRUCTION AND/OR CONTROL JOINTS.
 3. SLAB-ON-GRADE IS A STRUCTURAL DIAPHRAGM AND PART OF LATERAL FORCE RESISTING SYSTEM.

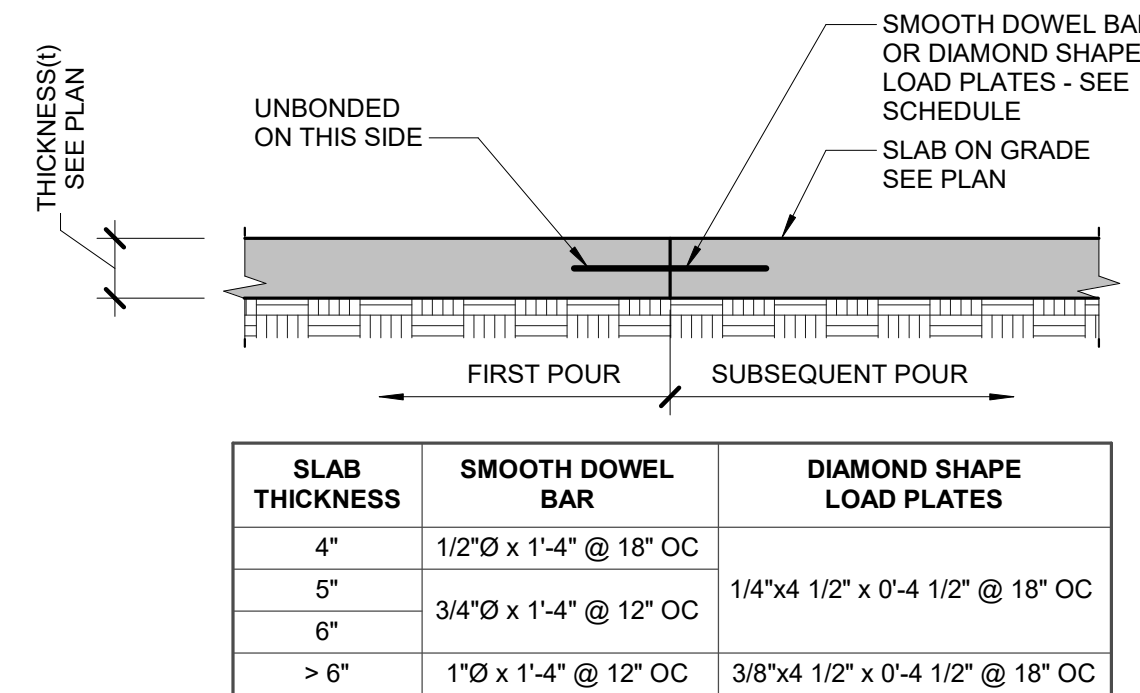
4 TYPICAL CONTROL JOINT
 3/4" = 1'-0"



5 CHANGE IN SLAB THICKNESS DETAIL
 3/4" = 1'-0"

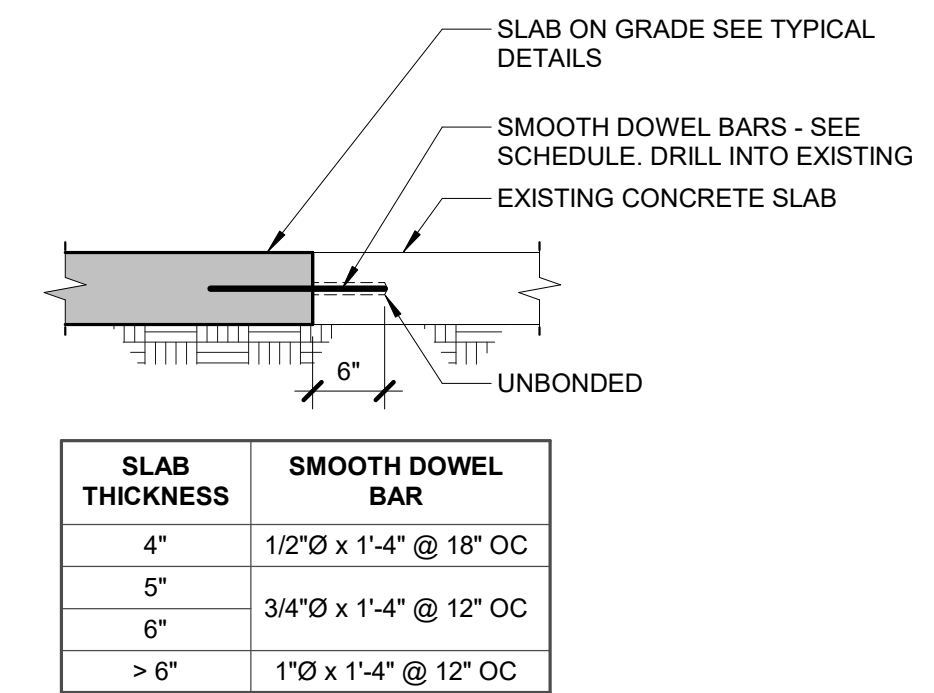


6 TYPICAL EDGE OF SLAB DETAIL
 3/4" = 1'-0"



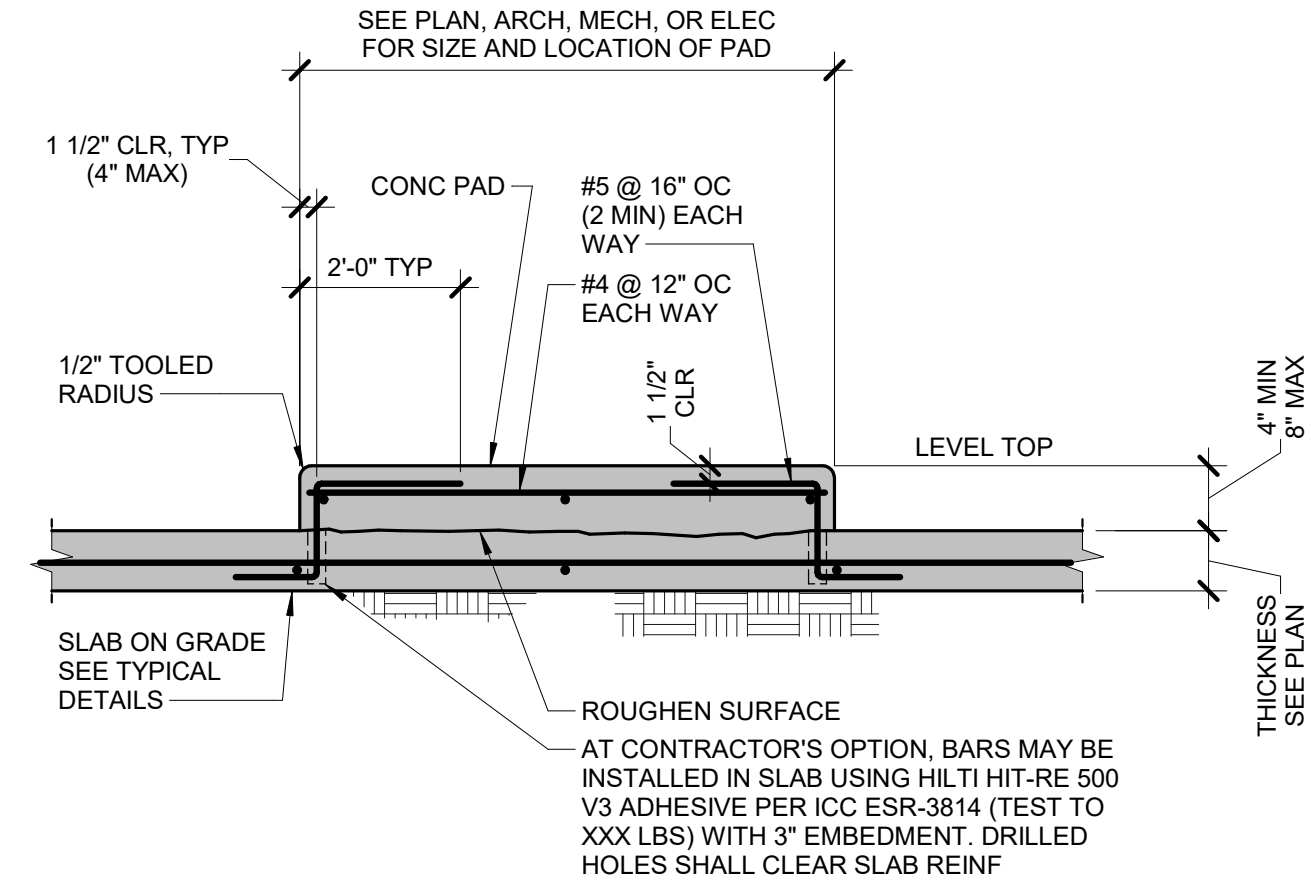
SLAB THICKNESS	SMOOTH DOWEL BAR	DIAMOND SHAPE LOAD PLATES
4"	1/2"Ø x 1'-4" @ 18" OC	
5"	3/4"Ø x 1'-4" @ 12" OC	
6"	1"Ø x 1'-4" @ 12" OC	1/4"x4 1/2" x 0'-4 1/2" @ 18" OC
> 6"	1"Ø x 1'-4" @ 12" OC	3/8"x4 1/2" x 0'-4 1/2" @ 18" OC

7 TYPICAL CONSTRUCTION JOINT
 3/4" = 1'-0"



SLAB THICKNESS	SMOOTH DOWEL BAR
4"	1/2"Ø x 1'-4" @ 18" OC
5"	3/4"Ø x 1'-4" @ 12" OC
6"	1"Ø x 1'-4" @ 12" OC
> 6"	1"Ø x 1'-4" @ 12" OC

8 NEW TO EXISTING SLAB DETAIL
 3/4" = 1'-0"

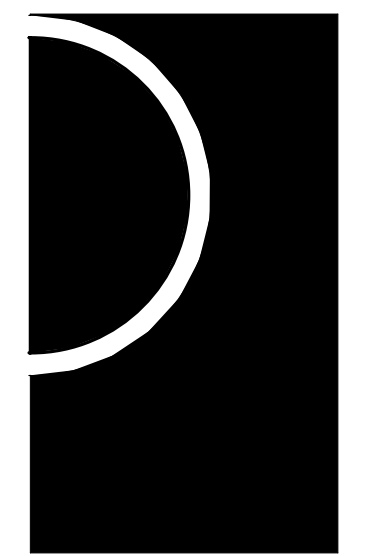


NOTE:
 1. SEE ARCHITECTURAL DWGS FOR THE FOLLOWING:
 A. LOCATION AND DIMENSIONS OF PADS.
 B. LOCATION AND SIZE OF ANCHOR BOLTS.
 C. DETAILS OF SUPPORTS, ISOLATORS AND OTHERS.

9 TYPICAL CONCRETE EQUIPMENT PAD DETAIL
 3/4" = 1'-0"

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

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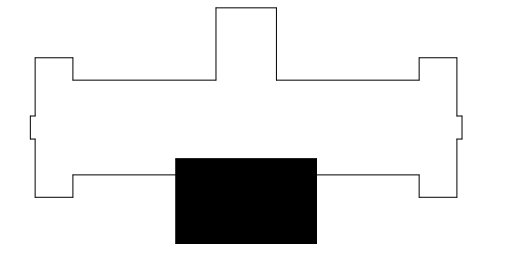
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www.imegcorp.com
 33533 W. TWELVE MILE SUITE 200
 FARMINGTON HILLS, MI 48331
 P: 248.344.2800 F: 248.344.1650
 PROJECT #22002867.01

KEY PLAN



OWNER

Hamtramck Public Schools

PROJECT NAME

HPS-Hamtramck-Mi-Kosciuszko MS

2333 Burger St.
 Hamtramck, MI 48212

PROJECT NO.

22002867.01

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

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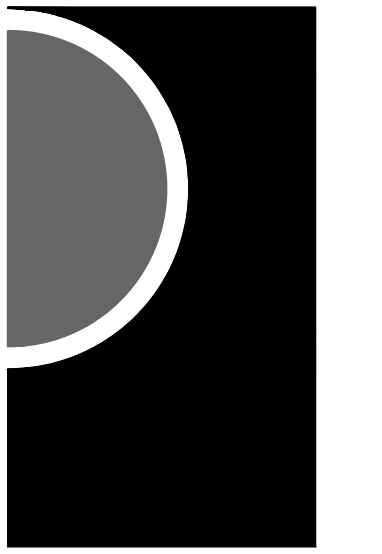
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 AC

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 AN

SHEET NAME

TYPICAL CONCRETE DETAILS

SHEET NO.
S301



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MOUNT CLEMENS, MI 48043
P 586.469.3600

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CONSULTANT
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276

KEY PLAN

OWNER

Hamtramck Public Schools

PROJECT NAME

Kosciuszko Middle School Structural Repairs

2333 Burger St. Hamtramck, MI 48212

PROJECT NO.

21-167

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

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SVM

SHEET NAME

MECHANICAL STANDARDS AND DRAWING INDEX

SHEET NO.

MO-01

MECHANICAL ABBREVIATION LIST

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists various mechanical symbols and their meanings, such as AC for compressed air, AD for access door, and various pipe and duct symbols.

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

Table with 2 columns: SYMBOL, DESCRIPTION. Lists symbols for temperature control components like CO2 for carbon dioxide sensor, PT for pressure transmitter, and V for valve.

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

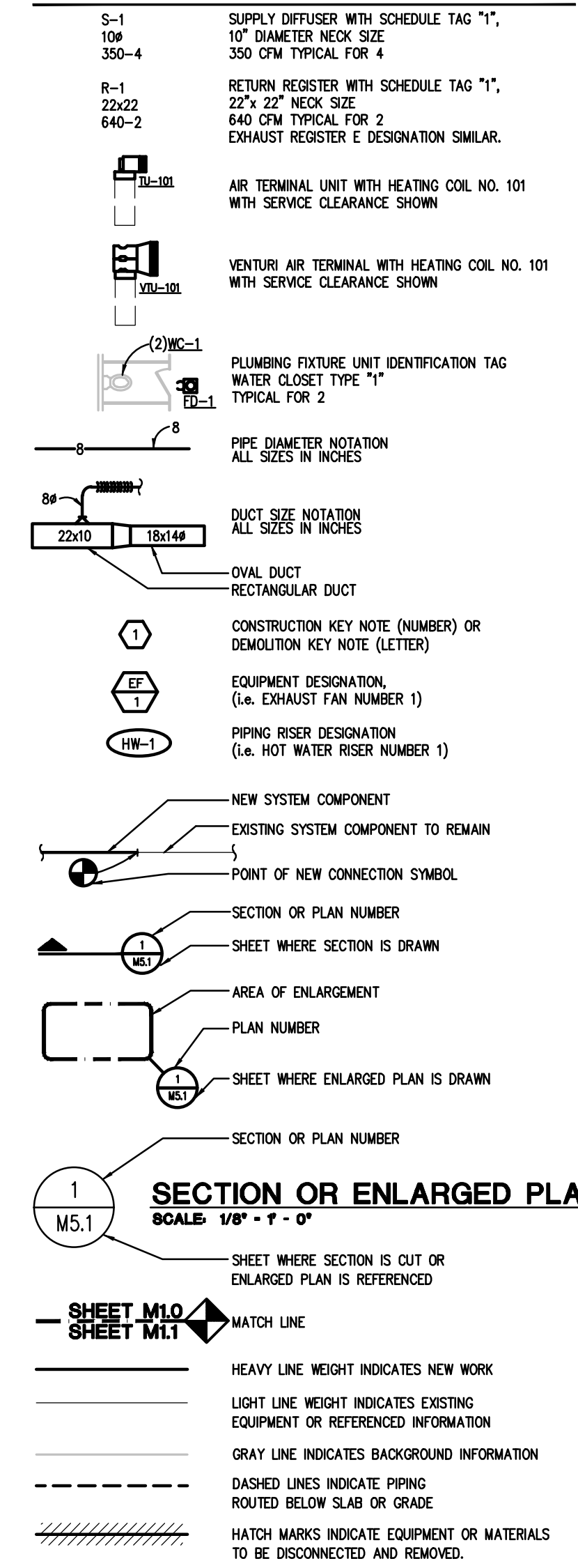
MECHANICAL SYMBOL LIST

Table with 3 columns: SYMBOL, DESCRIPTION, SYMBOL. Lists mechanical symbols for piping, ductwork, and equipment, such as air vent, backflow preventer, and various valves.

MECHANICAL DRAWING INDEX

Table with 2 columns: SHEET NO., SHEET TITLE. Lists sheet numbers and titles for mechanical standards and drawing index.

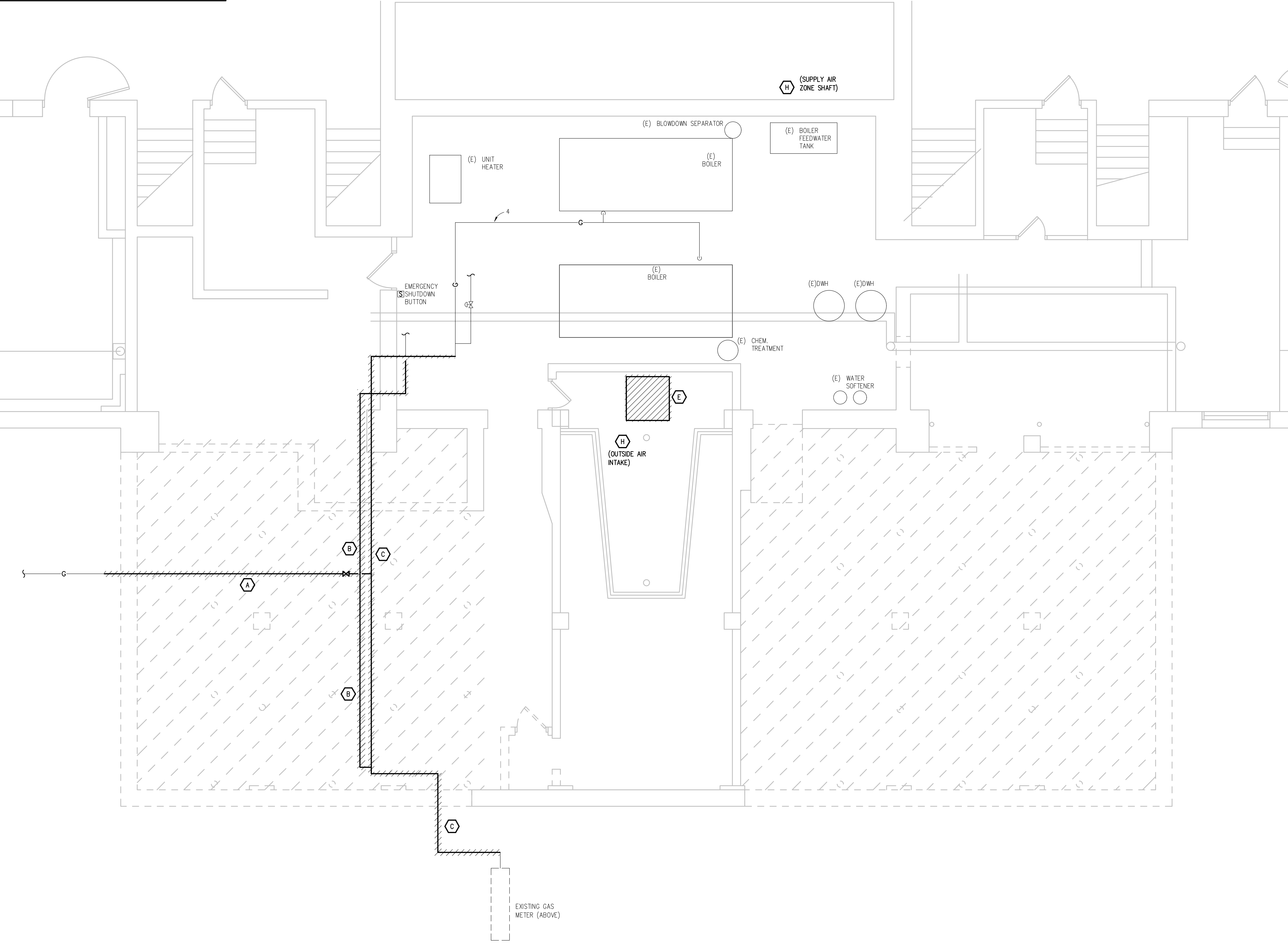
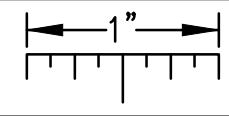
STANDARD METHODS OF NOTATION



NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

Vertical text on the left edge of the page: g:\2022-0160-00\CAD\2022-0160-IND.dwg, MO-01, 11/14/2022 3:09:42 PM, Remy Ruffin, Peter Basso Associates Inc.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



LOWER LEVEL MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

- A. REMOVE SECTION OF 2 GAS PIPE IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- B. REMOVE SECTION OF 1 GAS PIPING IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- C. REMOVE SECTION OF 4 GAS PIPING IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- D. TRENCH AREA FOR INSTALLATION OF NEW GAS LINES.
- E. REMOVE ABANDONED DUCTWORK.
- F. REMOVE 48 x 55 LOUVER, DAMPER AND ASSOCIATED LINKAGE. SALVAGE ACTUATOR FOR RE-INSTALLATION. PREPARE CONTROL SIGNAL FOR NEW WORK. PREPARE CONDUIT FOR RELOCATION/NEW WORK. PREPARE OPENING FOR NEW WORK.
- G. REMOVE (4) 36 x 55 LOUVERS, DAMPERS, LINKAGE AND ACTUATORS COMPLETE. PREPARE CONTROL SIGNAL FOR NEW WORK. PREPARE OPENING FOR NEW WORK.
- H. PROVIDE PRE-DEMOLITION SUPPLY AND OUTSIDE AIR FLOW READING FOR MAIN AIR HANDLING UNIT. REPORT FINDINGS BACK TO ENGINEER.

PARTNERS



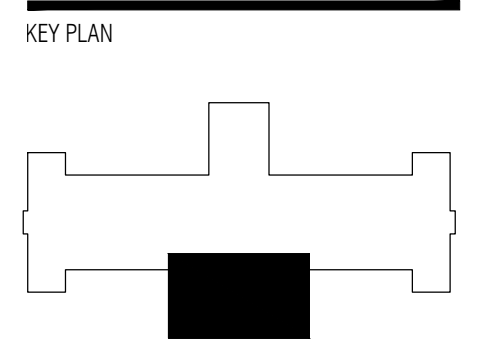
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65 MARKET STREET
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CONSULTANT

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livemont, Suite 100
Troy, Michigan 48068-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PIA Project No. 2022-069



OWNER
Hamtramck Public Schools

PROJECT NAME
Kosciuszko Middle School Structural Repairs

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.
21-167

ISSUES / REVISIONS
Bidding / Construction 11/17/2022

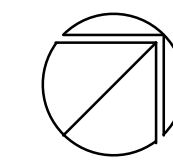
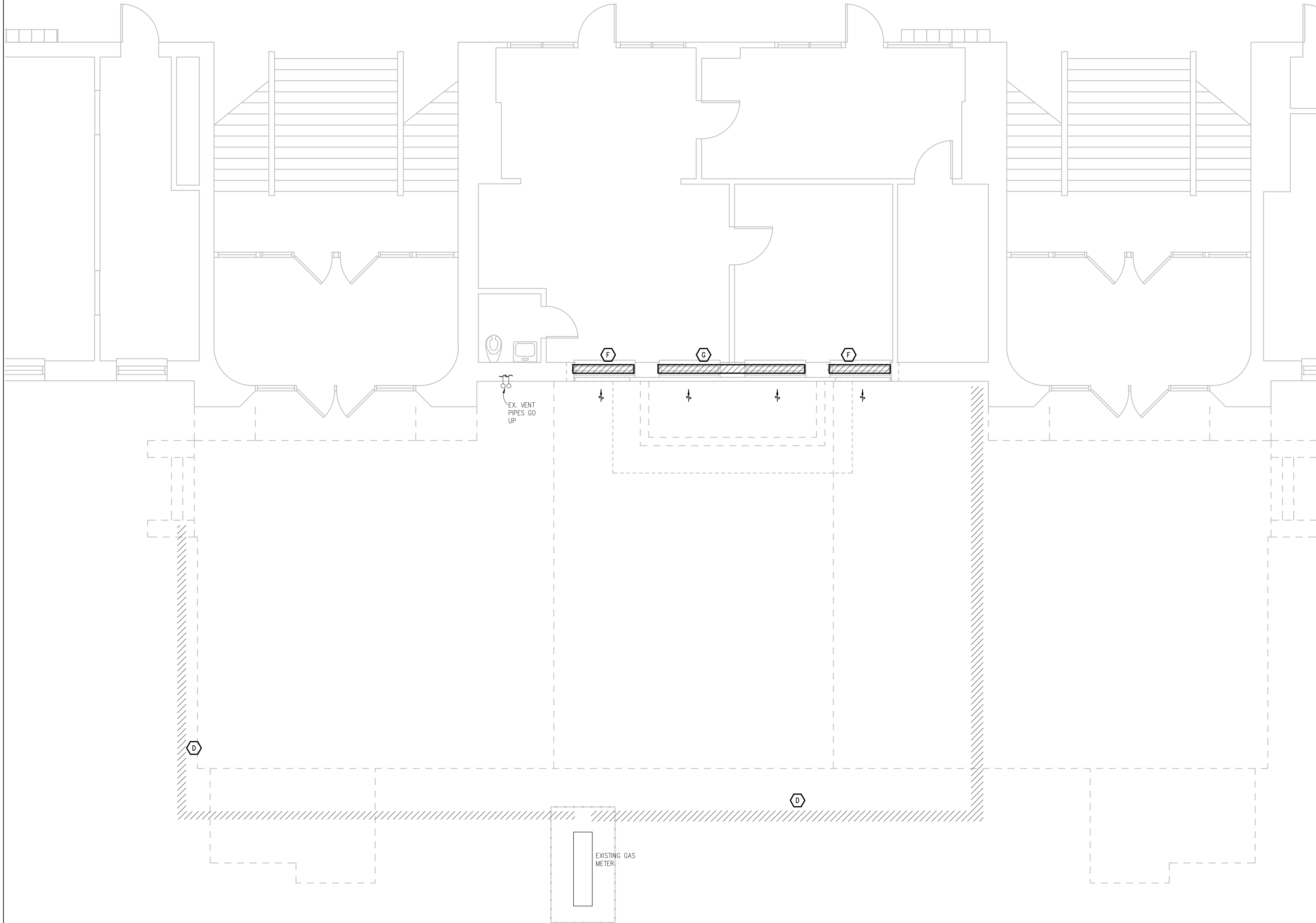
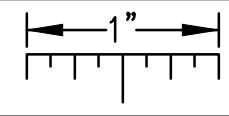
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SHEET NAME
LOWER LEVEL MECHANICAL DEMOLITION PLAN

SHEET NO.
MD2-01

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FIRST LEVEL MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1' - 0"

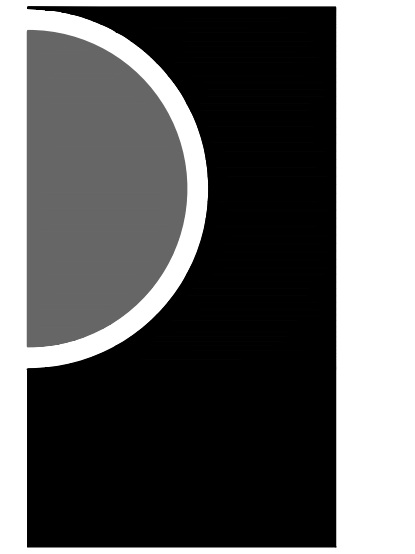
**MECHANICAL DEMOLITION
GENERAL NOTES:**

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

- A. REMOVE SECTION OF 2 GAS PIPE IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- B. REMOVE SECTION OF 1 GAS PIPING IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- C. REMOVE SECTION OF 4 GAS PIPING IN ROOM TO BE INFILLED. PREPARE EACH END OF PIPING FOR NEW WORK.
- D. TRENCH AREA FOR INSTALLATION OF NEW GAS LINES.
- E. REMOVE ABANDONED DUCTWORK.
- F. REMOVE 48 x 55 LOUVER, DAMPER AND ASSOCIATED LINKAGE. SALVAGE ACTUATOR FOR RE-INSTALLATION. PREPARE CONTROL SIGNAL FOR NEW WORK. PREPARE CONDUIT FOR RELOCATION/NEW WORK. PREPARE OPENING FOR NEW WORK.
- G. REMOVE (4) 36 x 55 LOUVERS, DAMPERS, LINKAGE AND ACTUATORS COMPLETE. PREPARE CONTROL SIGNAL FOR NEW WORK. PREPARE OPENING FOR NEW WORK.
- H. PROVIDE PRE-DEMOLITION SUPPLY AND OUTSIDE AIR FLOW READING FOR MAIN AIR HANDLING UNIT. REPORT FINDINGS BACK TO ENGINEER.

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PARTNERS in Architecture, PLC
65 MARKET STREET
MOUNT CLEMENS, MI 48043
P 586 469 3600

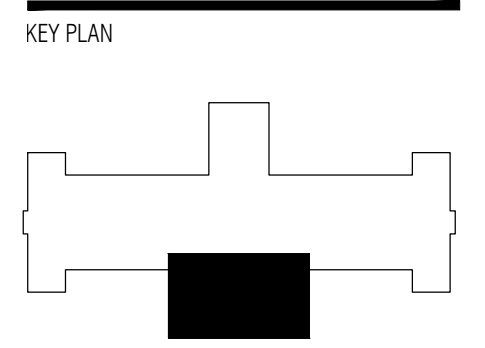
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OWNER

**Hamtramck
Public Schools**

PROJECT NAME
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School
Structural Repairs**

2333 Burger St.
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PROJECT NO.
21-167

ISSUES / REVISIONS
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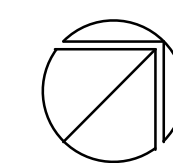
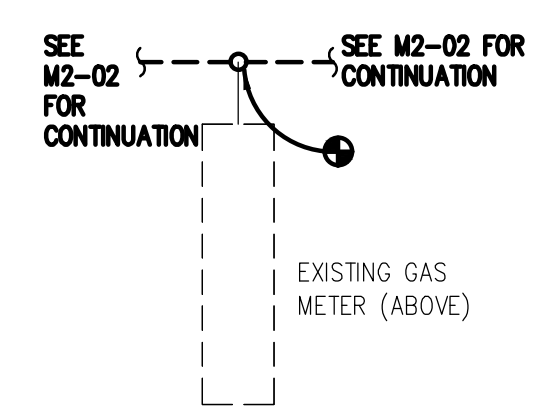
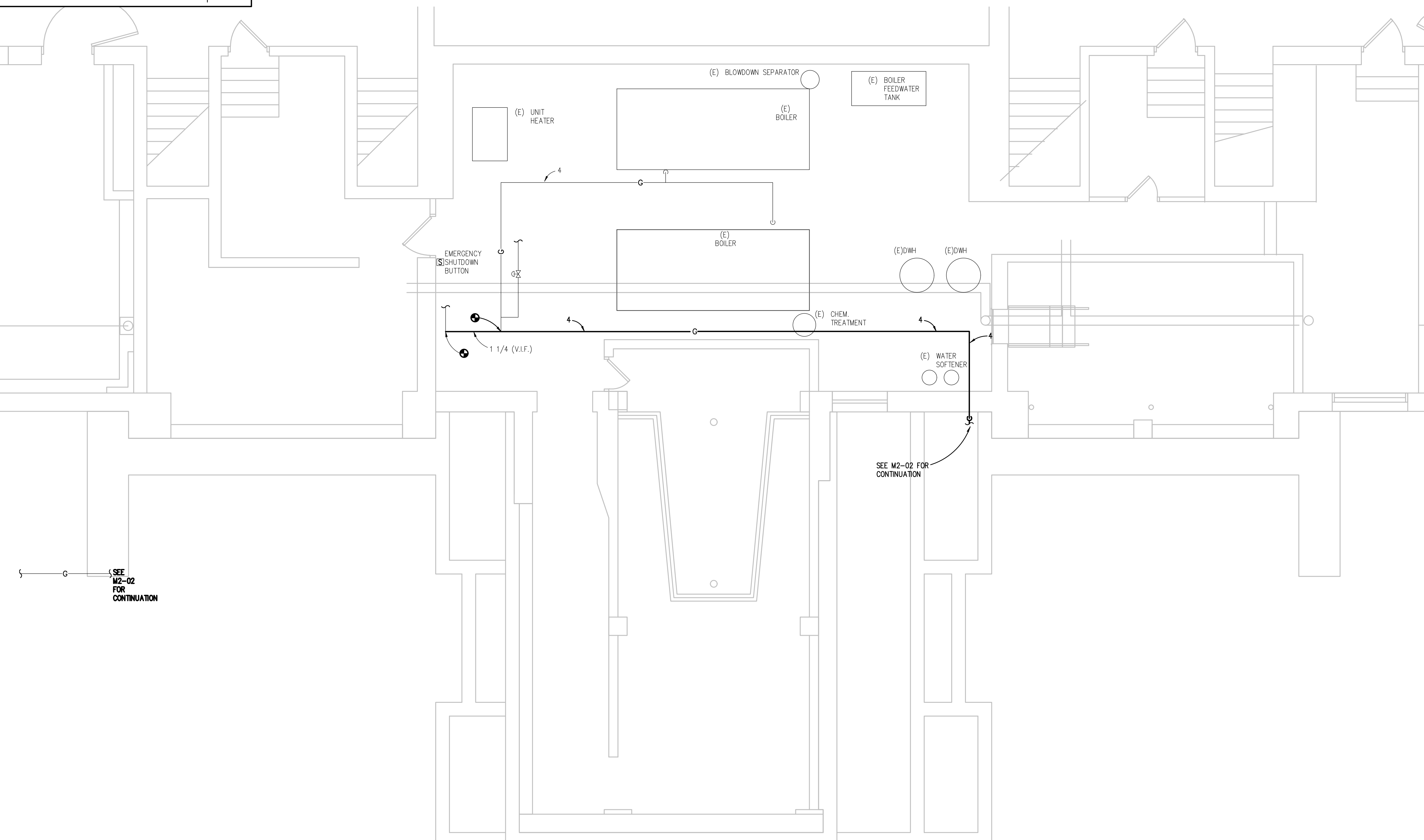
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SHEET NAME
**FIRST LEVEL MECHANICAL
DEMOLITION PLAN**

SHEET NO.
MD2-02

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



LOWER LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1' - 0"

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 1' OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

HVAC PIPING GENERAL NOTES:

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5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE DEVICES.

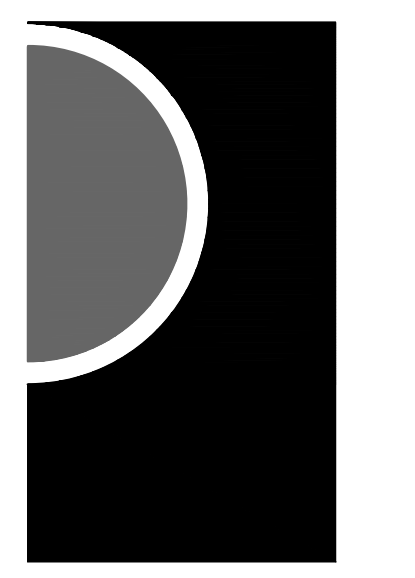
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CONSTRUCTION KEY NOTES:

1. PIPE RISES TO PENETRATE BUILDING ABOVE GRADE. SEE LOWER LEVEL PLAN M2-01 FOR CONTINUATION.
2. GAS PIPE BURIED BELOW GRADE.
3. PROVIDE 60w x 40h LOUVER AND DAMPER INTERLOCKED TO BOILER No. 1. RECONNECT SALVAGED DAMPER ACTUATOR AND EXISTING ELECTRIC CONTROL SIGNAL.
4. PROVIDE 60w x 40h LOUVER AND DAMPER INTERLOCKED TO BOILER No. 2. RECONNECT SALVAGED DAMPER ACTUATOR AND EXISTING ELECTRIC CONTROL SIGNAL.
5. PROVIDE 48w x 40h LOUVER AND DAMPER INTERLOCKED TO AHU. PROVIDE NEW PNEUMATIC ACTUATOR AND RECONNECT INTO EXISTING PNEUMATIC CONTROL SIGNAL.
6. ISOLATION VALVES TO BE JUST ABOVE GRADE.
7. RELOCATE CONDUIT SERVING ACTUATOR.

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

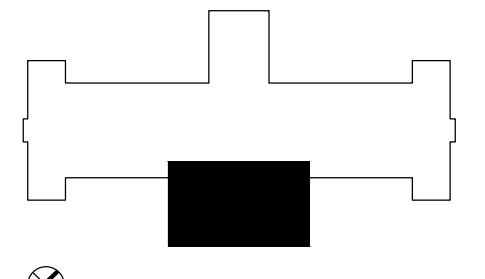
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CONSULTANT

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CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PIA Project No. 20220169

KEY PLAN



OWNER

Hamtramck Public Schools

PROJECT NAME
Kosciuszko Middle School Structural Repairs

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.
21-167

ISSUES / REVISIONS
Bidding / Construction 11/17/2022

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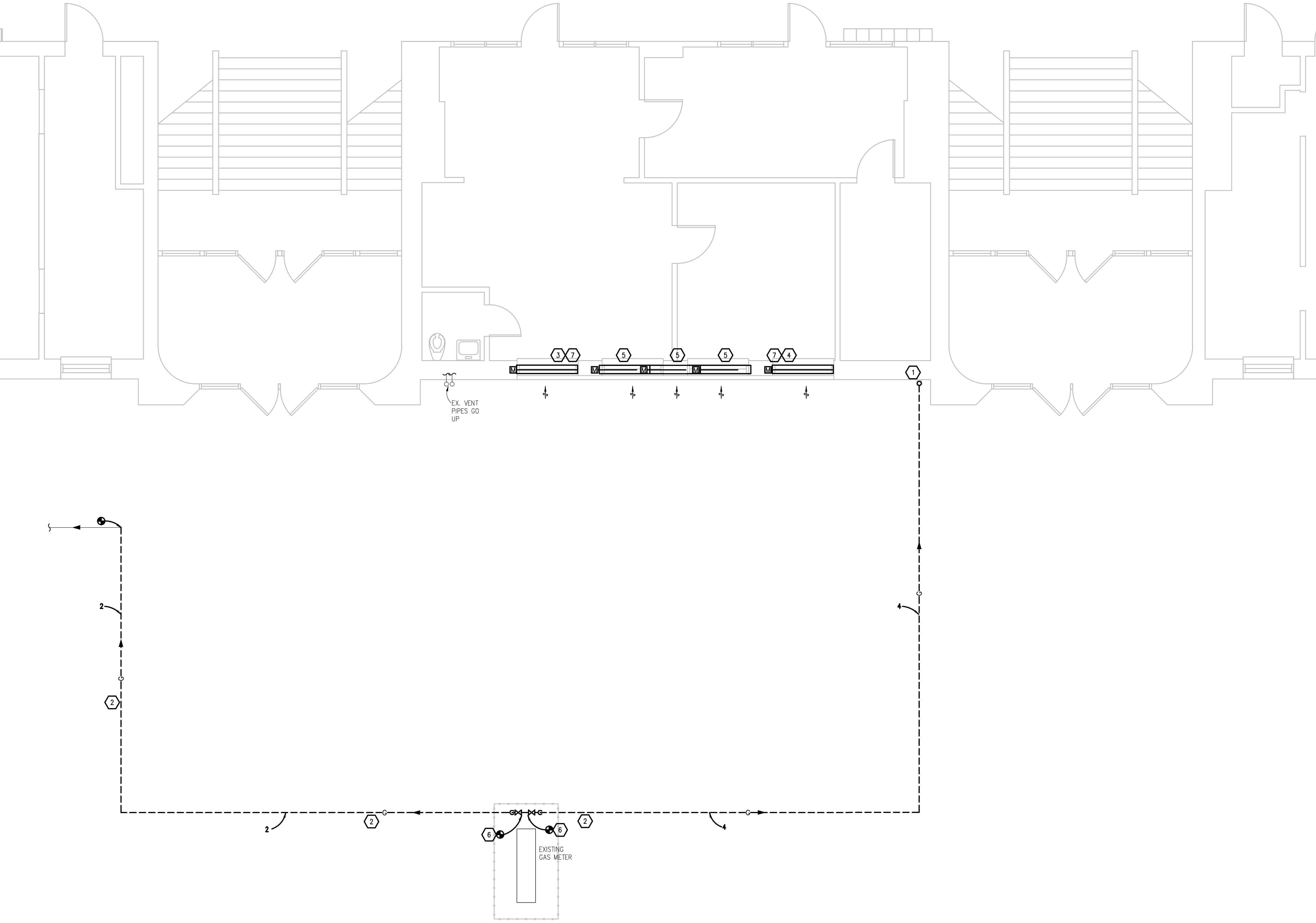
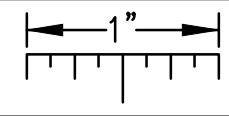
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SHEET NAME
LOWER LEVEL MECHANICAL PLAN

SHEET NO.
M2-01

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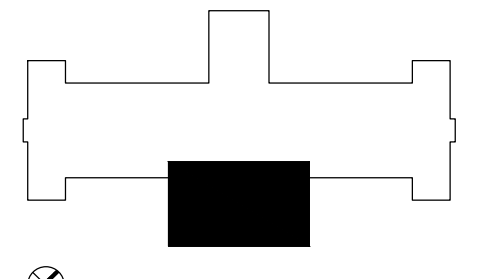
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PBA Project No. 2022-0169

KEY PLAN



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Hamtramck Public Schools

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PROJECT NO.
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PLUMBING PIPING & VALVE APPLICATION SCHEDULE																																											
PIPE SIZE (INCHES)	MATERIAL												PRESSURE CONNECTIONS										GRAVITY DWV CONNECTIONS			ISOLATION VALVES					KEYED NOTES												
	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHD. 40)	CARBON STEEL (STD.)	GALV. STEEL (SCHD. 40)	STAINLESS STEEL (SCHD. 10)	PEX	PE PIPE	PE SHEATHED CARBON STEEL PIPE	CSST	NO-HUB CISP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	INSERT & GRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON-JOINT	SOLVENT WELDED	SOLDERED		FUSION	CSP HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE				
ABOVEGROUND FUEL GAS - MIN. WORKING PRESS. 100 PSIG																																											
UP TO 2			X																X	X																						E	
2-1/2 TO 3			X																X		X																						E
4 TO 10			X																X		X																		X				E
UNDERGROUND FUEL GAS - MIN. WORKING PRESS. 100 PSIG																																											
1/2 TO 12								X																X																			F

- GENERAL NOTES**
- "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
 - DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.
 - NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY.
 - NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.
 - USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
 - PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
 - GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

- KEYED NOTES**
- GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS ONLY FOR THIS PIPING SYSTEM. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.
 - JOINTS ARE NOT PERMITTED ON UNDERGROUND WATER PIPING.
 - USE CAST IRON DRAINAGE PATTERN (DURHAM) FITTINGS.
 - INSTALL IN CONTAINMENT JACKET, REFER TO SPECIFICATIONS.
 - VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS.
 - NO JOINTS ALLOWED UNDERGROUND.

HORIZONTAL PIPING AND SUPPORT APPLICATION SCHEDULE										
METAL PIPE TYPE & SIZE	HANGER OR SUPPORT TYPE					SHIELD TYPE				KEYED NOTES
	NSS TYPE 1 CLEVIS HANGER	NSS TYPE 10 SWIVEL RING BAND HANGER	NSS TYPE 41 DOUBLE ROD PIPE ROLLER	NSS TYPE 43 SINGLE ROD ROLLER HANGER	NSS TYPE 44 PIPE ROLLER & STAND	NSS TYPE 46 ADJUSTABLE PIPE ROLL STAND	NSS TYPE 39 PROTECTION SADDLE	NSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD	
UP TO 2 INCH	X	X								
2-1/2 INCH TO 4 INCH	X	X								
6 INCH TO 8 INCH	X									
10 INCH	X									
12 INCH			X							
14 INCH AND LARGER			X							

- GENERAL NOTES**
- "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
 - REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
 - HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED.
 - HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.
 - REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING.
 - MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U-BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS. REFER TO KEYED NOTE A.
 - MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS INDICATED FOR SINGLE COLD PIPES.
 - MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING ROLLER ELEMENTS AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
 - MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEY NOTES B AND C.
 - REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

- KEYED NOTES**
- USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION.
 - USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE.
 - USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

SCHEDULES GENERAL NOTES:

- TYPICAL FOR ALL SCHEDULE SHEETS:
- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION.
 - PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
 - NON-FUSED DISCONNECT SWITCH
 - UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
 - SERVICE RECEPTACLE
 - FUSED DISCONNECT SWITCH
 - COMBINATION STARTER
 - UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
 - FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
 - IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
 - WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
 - WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
 - WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
 - WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
 - SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

PARTNERS



PARTNERS in Architecture, PLC

65 MARKET STREET
MOUNT CLEMENS, MI 48043
P 586-469-3600

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CONSULTANT



Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livemore, Suite 100
Troy, Michigan 48068-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
FBA Project No. 20220069

KEY PLAN

OWNER

**Hamtramck
Public Schools**

PROJECT NAME

**Kosciuszko Middle
School
Structural Repairs**

2333 Burger St.
Hamtramck, MI 48212

PROJECT NO.

21-167

ISSUES / REVISIONS

Bidding / Construction 11/17/2022

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MECHANICAL DETAILS & SCHEDULES

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