





# CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION**

## MAYOR - CHERELLE L. PARKER

COMMISSIONER - DEPARTMENT OF PARKS & RECREATION - SUSAN SLAWSON

# **RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER**

## PROJECT NO. 16315E-03-02

4800 WAYNE AVENUE, PHILADELPHIA, PA 19144

## CONSTRUCTION DOCUMENTS

SMPARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410

ANDSCAPE ARCHITEC GROUND RECONSIDERED 915 Spring Garden Street, Suite 403 Philadelphia, PA 19123 215 790 0727

<u>CIVIL ENGINEER</u> KS ENGINEERS 530 Walnut Street, Suite 460 Philadelphia, PA 19106 215 925 0425

STRUCTURAL ENGINEER ANN ROTHMANN STRUCTURAL 100 E Lancaster Avenue, Suite 203 Wayne, PA 19087 610 688 2566

<u>MEP ENGINEER:</u> ARORA ENGINEERS 61 Wilmington-West Chester Pike Chadds Ford, PA 19317 610 459 7900



ALTERNATES:

- 1. WAYNE AVENUE SIDEWALK BASE SCOPE: EXISTING TO REMAIN ADD ALTERNATE: DEMOLISH EXISTING CONCRETE PAVING. ADD NEW CONCRETE PAVING. REFER TO LAND SCAPE DRAWINGS. CLEAN AND JET EXISTING INLET AT BASKETBALL COURTS.
- 2. BASKETBALL COURTS **BASE SCOPE:** EXISTING TO REMAIN ADD ALTERNATE: MILL EXG ASPHALT PAVING AND OVERLAY WITH NEW ASPHALT
- TOPPING, PROVIDE NEW COURT MARKING, JET AND CLEAN COURT INLET AND DRAIN. REFER TO CIVIL AND LANDSCAPE DRAWINGS.
- 3. COMPUTER ROOM 102 AND GAMING ROOM 103 MILLWORK BASE SCOPE: DEMOLISH EXISTING MILLWORK AND EQUIPMENT PER DRAWINGS. RROVIDE NEW COUINTERTOP, CASEWORK, AND SHELVING AS DOCUMENTED. **DEDUCT ALTERNATE:** DEMOLISH EXISTING MILLWORK AND EQUIPMENT PER DRAWINGS. FINISH ALL WALL, CEILING, AND FLOOR PER SPECIFICATIONS.

DRAWING LIST		A3.2
GENERAL		A4.0
	COVER SHEET	/
	OOVERONEET	A5.0
ARCHITECTURA	1	A5.1
A0.1	GENERAL NOTES, ABBREVIATIONS,	A6.0
A0.1	MATERIALS, REFERENCE SYMBOLS	A8.0
A0.2	BUILDING CODE INFORMATION	A8.1
71012		A9.0
CIVIL		A9.1
C1.00	EXISTING SITE PLAN & INLET CLEANING	A9.2
01.00	PLAN	A10.
C1.01	SIDEWALK SITE PLAN	
C1.02	SIDEWALK GRADING PLAN	STR
C1.03 1	UTILITY PLAN	S1.0
C5.00	SIDEWALK CONSTRUCTION DETAILS	S1.1
CE1.01	EROSION AND SEDIMENT CONTROL PLAN	•
CE5.01	EROSION AND SEDIMENT CONTROL	MEC
	DETAILS	M-00
CE7.01	EROSION AND SEDIMENT CONTROL	101-00
	NOTES	MD-
LANDSCAPE		MD-
L1.0	DEMOLITION AND PROTECTION PLAN	
L2.0	MATERIALS PLAN	MD-
L2.1	MATERIALS PLAN	M-10
L3.0	LAYOUT PLAN	M-10
L3.1	LAYOUT PLAN	M-10
L3.2	LAYOUT PLAN PLAY & SPRAY EQUIPMENT	M-50
L3.3	LAYOUT PLAN - JOINTING & SAFETY	M-60
	SURFACE	M-60
L4.0	GRADING PLAN	
L5.0	PLANTING PLAN	ELE
L6.0	SITE DETAILS	E-00
L6.1	SITE DETAILS	
L6.2	SITE DETAILS	ED-1
L6.3	SITE DETAILS	
L6.4	SITE DETAILS	ED-1
L6.5	SITE DETAILS	
L6.6	PLANTING DETAILS	ED-2
	· · · · · · · · · · · · · · · · · · ·	ED-2
ARCHITECTURA	L	ED-2
D2.0 1	BASEMENT DEMOLITION PLAN	E-10
D2.1	FIRST FLOOR DEMOLITION PLAN	E-10
D2.2	ROOF DEMOLITION PLAN	
D3.0	DEMOLITION ELEVATIONS	E-20
D3.1	DEMOLITION ELEVATIONS	E-20
A2.0 1	BASEMENT PLAN	E-50
A2.1 1	FLOOR PLAN, EXTERIOR & INTERIOR WALL	_ 00
	TYPES	E-50
A2.2 1	ROOF PLAN	
A3.0 1	EXTERIOR ELEVATIONS & DETAIL	E-60
A3.1 1	EXTERIOR ELEVATIONS	E-60

ROOFING CONSULTANT: STEVE MCLAUGHLIN ROOFING CONSULTANT 210 Garden Avenue Somerdale, NJ 08083 856 287 2424

	BUILDING SECTIONS & ROOF TYPES	E-701	ELECTRICAL DETAILS	PROJECT API	PROVED
	ENLARGED RESTROOM PLANS & INTERIOR	L-701			_
$\overline{)}$	ELEVATIONS	PLUMBING			
<u>_1</u>	INTERIOR ELEVATIONS	P-001	PLUMBING, GENERAL NOTES, SYMBOLS	COMMISSIONER/PARKS AND RECREA	TION
<u> </u>	CASEWORK DETAILS	<b>PP</b> (0)	AND ABBREVIATIONS		
<u>1</u>	REFLECTED CEILING PLANS	PD-101	PLUMBING DEMOLITION BASEMENT PLAN		
	ROOF DETAILS BREEZEWAY ENLARGED PLAN & DETAILS	PD-102	PLUMBING DEMOLITION FIRST FLOOR PLAN	DEPUTY COMMISSIONER/CAPITAL PR	OJECTS
	DOOR SCHEDULE, TYPES & DETAILS	PD-103	PLUMBING DEMOLITION ROOF PLAN		
	WINDOW TYPES & DETAILS	P-100 1	PLUMBING SITE PLAN	PROJECT DIRECTOR	
	FINISH PLANS & SCHEDULE, SIGNAGE	P-101	PLUMBING BASEMENT PLAN		
	INTERIOR DETAILS	P-102	PLUMBING FIRST FLOOR PLAN		
		P-103	PLUMBING ROOF PLAN		
URAL		P-300	PLUMBING ENLARGED PLANS		
UNAL	STRUCTURAL DETAILS	P-400	PLUMBING RISER DIAGRAMS		
	GENERAL NOTES	P-500	PLUMBING DETAILS		
	GENERAL NOTES	P-501 1	PLUMBING DETAILS		
		P-600	PLUMBING SCHEDULES		
IICAL	MECHANICAL GENERAL NOTES, SYMBOLS				
	AND ABBREVIATIONS	FIRE PROTECT			
	MECHANICAL DEMOLITION BASEMENT PLAN	FA-001	FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS		11e
	MECHANICAL DEMOLITION FIRST FLOOR	FAD-101	FIRE ALARM DEMOLITION BASEMENT PLAN	SEALS	AD
	PLAN	FAD-102	FIRE ALARM DEMOLITION FIRST FLOOR	ASSISTING TE CONSIGNATION OF THE PROPERTY OF T	CHI MARIA
	MECHANICAL DEMOLITION ROOF PLAN		PLAN	LU CHNNSY!	VAA COM
	MECHANICAL BASEMENT PLAN	FA-101	FIRE ALARM BASEMENT PLAN	A Nor	A PARA
	MECHANICAL FIRST FLOOR PLAN	FA-102	FIRE ALARM FIRST FLOOR PLAN		
	MECHANICAL ROOF PLAN	FA-500	FIRE ALARM DETAILS		
	MECHANICAL DETAILS	FA-501	FIRE ALARM DETAILS	S	
	MECHANICAL SCHEDULES	FA-502	FIRE ALARM DETAILS, SCHEDULES AND	1000 Bar 100	
	MECHANICAL SCHEDULES		RISER DIAGRAM	1941 OD 200000	2° BAO Instant
CAL				annunumunu a	munnatur.
CAL	ELECTRICAL GENERAL NOTES, SYMBOLS				
	AND ABBREVIATIONS ELECTRICAL DEMOLITION BASEMENT			CITY OF PHIL	
	POWER PLAN ELECTRICAL DEMOLITION FIRST FLOOR			DEPARTMENT OF PARK	S AND RECREATION
	POWER AND SECURITY PLAN			1515 ARCH S 11TH FLOOR, ONE PAR	
	ELECTRICAL DEMOLITION BASEMENT LIGHTING PLAN			PHILADELPHIA	PENNSYLVANIA
	ELECTRICAL DEMOLITION FIRST FLOOR LIGHTING PLAN			PROJECT NO.	DRAWING NO.
	ELECTRICAL POWER BASEMENT PLAN				
	ELECTRICAL POWER AND SECURITY FIRST			16315E-03-02	
	FLOOR PLAN			DATE 05/13/2025	
	ELECTRICAL LIGHTING BASEMENT PLAN				– CS-1
	ELECTRICAL LIGHTING FIRST FLOOR PLAN			SCALE AS NOTED	00-1
	ELECTRICAL SINGLE LINE DIAGRAM				_
	ELECTRICAL SINGLE LINE DIAGRAM NEW			JS/SCR	
~	WORK			CHECKED BY SCR	FILE:F:\CPOFORMS\PREDESIGN\24x36DWGS
<u>_1</u>	ELECTRICAL LUMINAIRE SCHEDULE				
_	ELECTRCIAL PANELBOARD SCHEDULES			ALL DIMENSIONS AND CONDITION	NS SHALL BE VERIFIED BY THE DRE PROCEEDING WITH THE WORK

#### **GENERAL NOTES:**

1. DO NOT SCALE DRAWINGS.

REGULATIONS. CODES AND ORDINANCES.

- 2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL
- 4. THE CONTRACTOR SHALL CONFIRM, LOCATE AND COORDINATE WORK WITH
- HIDDEN MECHANICAL, PLUMBING AND ELECTRICAL CONDITIONS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDING, SITE AND EQUIPMENT DURING CONSTRUCTION, INCLUDING DAMAGE FROM THE ELEMENTS. THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING BUILDING DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE IMMEDIATELY AND TO THE SATISFACTION OF THE OWNER.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE. IF EXISTING CONDITIONS DO NOT PERMIT INSTALLATION OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND PROVIDE A SKETCH OF THE CONDITION.
- 7. (RESERVED)
- 8. THE CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ALL OPENINGS WITH ALL TRADES PRIOR TO INSTALLATION.
- 9. DETAILS SHOWN ARE INTENDED FOR SPECIFIC LOCATIONS AND CONDITIONS. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT SIMILAR CONDITIONS AND SHALL BE CONSIDERED PART OF THE WORK.
- 10. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AS BEING NIC, ALL ITEMS, MATERIALS, ETC. AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT WORK.
- 11. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SLEEVING WORK, UNO. COORDINATE LOCATION AND SIZE OF ALL OPENINGS, INTERIOR AND/OR EXTERIOR WITH ALL TRADES PRIOR TO INSTALLATION.

#### **GENERAL RENOVATION NOTES:**

- 1. PERFORM DISASSEMBLY AND REMOVALS IN A CONTROLLED MANNER; WITHOUT UNNECESSARY CUTS; WITHOUT DAMAGE TO THE SITE, STRUCTURE OR FEATURES; WITHOUT DAMAGE TO THE MATERIALS OR CONSTRUCTION TO REMAIN.
- 2. PROMPTLY RESTORE, REPLACE, OR REINSTALL ANY ITEMS DEMOLISHED WHERE NOT SCHEDULED TO BE DEMOLISHED, OR DAMAGED BY ANY DEMOLITION/CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER. SECURE A/E APPROVAL PRIOR TO CONDUCTING REMEDIAL WORK.
- 3. REPRESENTATIVE DETAILS, PROFILES, AND DIMENSIONS NOTED ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO PREPARING SHOP DRAWINGS.
- 4. ALL EXISTING OPENINGS AND PENETRATIONS THAT ARE ABANDONED SHALL BE PATCHED AND REPAIRED. ALL PATCH AND REPAIR WORK SHALL BE PERFORMED USING MATERIALS THAT MATCH THE EXISTING ADJACENT CONSTRUCTION IN LIKE AND KIND. WHERE PATCHING IS REQUIRED IN MASONRY PARTITIONS. MASONRY SHALL BE TOOTHED IN TO MATCH.

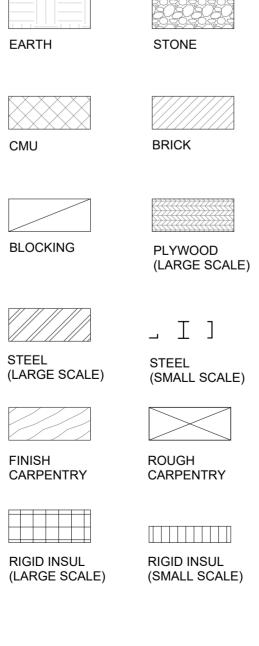
#### **DIMENSIONING:**

- 1. FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
- 2. INTERIOR DIMENSIONS ARE TO FINISH FACE OF WALL OR NOMINAL THICKNESS MASONRY THICKNESS UNLESS NOTED OTHERWISE. REFER TO PARTITION TYPES AND PLAN DETAILS FOR MORE INFORMATION.
- 3. EXTERIOR DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- 4. OPENING DIMENSIONS IN BRICK/CMU/PLASTER PARTITIONS ARE TO NOMINAL MASONRY OPENING.
- 5. ALL FINISH FLOOR HEIGHTS ARE TO BE VERIFIED IN FIELD. CONTRACTOR TO COORDINATE THE ALIGNMENT OF EXISTING AND NEW FINISH FLOOR HEIGHTS.

#### **GENERAL PRESERVATION NOTES:**

- ASSISTANCE.
- THESE STANDARDS.
- OWNER.
- NEAR THE STRUCTURE.
- GUIDANCE IN SUCH REGARD.
- AFTER APPROVAL BY A/E AND OWNER.

### **MATERIAL SYMBOLS:**



1. THE PROJECT INVOLVES THE RENOVATION OF HISTORIC STRUCTURES AND SHALL BE TREATED RESPECTFULLY. EXISTING BUILDING ELEMENTS SHALL BE CAREFULLY HANDLED AND PROTECTED. NO EXISTING MATERIAL OR ELEMENT SHALL BE REMOVED OR ALTERED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR DIRECTED BY THE ARCHITECT.

2. PRESERVATION OF THE HISTORIC STRUCTURE: THE WORK CONSISTS OF RESTORATION OF AN HISTORIC STRUCTURE LISTED ON THE LOCAL REGISTER OF HISTORIC PLACES. EXERCISE EXTREME CARE IN ALL ASPECTS OF THE WORK TO CONSERVE, PRESERVE, AND PROTECT THE EXISTING STRUCTURE. DO NOT USE METHODS WHICH WILL RESULT IN UNNECESSARY LOSS OF DETAIL OR MATERIAL FROM THE EXISTING STRUCTURE. IF IN DOUBT, CONTACT THE A/E FOR

3. THE WORK SHALL BE COMPLETED IN COMPLIANCE WITH THE UNITED STATES SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES (REVISED 1995). STRICT COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS IS REQUIRED TO ASSURE COMPLIANCE OF THE WORK WITH

4. STRUCTURAL STABILITY AND SAFETY: DO NOT SECURE SCAFFOLDING, PLATFORMS, LADDERS, MATERIALS OR EQUIPMENT TO THE EXISTING STRUCTURE PRIOR TO REVIEW BY THE A/E.

5. CONCEALED CONDITIONS: BECAUSE EVIDENCE IS CONCEALED BY EXTANT EXTERIOR SURFACES, QUESTIONS MAY REMAIN WITH REGARD TO THE ORIGINAL CONSTRUCTION OF THE BUILDING. THE A/E AND OWNER WILL OBSERVE CURRENTLY CONCEALED SURFACES AFTER THEY HAVE BEEN REVEALED BY SELECTIVE DEMOLITION. THE CONTRACTOR SHALL PLAN AND PROVIDE FOR TIMELY NOTIFICATION TO THE A/E AND OWNER WHEN MANDATORY OBSERVATION AREAS ARE UNCOVERED SO THAT WORK IS NOT DELAYED. DO NOT PROCEED WITH WORK UNTIL A/E AND OWNER OBSERVATION HAS BEEN PERFORMED AND FURTHER WORK HAS BEEN RELEASED BY THE A/E AND

6. FIRE HAZARDS AND FIRE PREVENTIONS: SMOKE WITHIN, ON OR NEAR THE STRUCTURE IS NOT PERMITTED. BURNING, CUTTING, WELDING, BRAZING, OR OPEN FLAMES WITHIN, OR ON, THE STRUCTURE IS NOT PERMITTED UNLESS NOTED OTHERWISE, POST AND MAINTAIN A FIRE-WATCH DURING SOLDERING WORK. MAINTAIN THE FIRE WATCH FOR A MINIMUM OF THREE HOURS AFTER CESSATION OF SOLDERING. DO NOT PERMIT STORAGE OF MATERIALS OR WASTE IN THE BUILDING, IMMEDIATELY REMOVE ALL WASTE FROM THE BUILDING AT THE END OF EACH WORK DAY. DO NOT STORE FLAMMABLE MATERIALS IN OR

7. MAINTAIN A PROGRAM OF FIRE PREVENTION FOR DEMOLITION AND CONSTRUCTION OPERATIONS FOR THE DURATION OF WORK, INCLUDING APPROPRIATE FIRE EXTINGUISHERS IN COMPLIANCE WITH NFPA 241. PROVIDE FOR NOTIFICATION TO THE FIRE DEPARTMENT IN THE EVENT OF FIRE. MAINTAIN CLEAR ACCESS ON ROADS AND AROUND THE STRUCTURE AT ALL TIMES.

8. EXISTING CONDITIONS AND LAYOUT: DATA ON EXISTING CONDITIONS INDICATED IN THE DRAWINGS, SPECIFICATIONS ARE AS EXACT AS COULD BE SECURED BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. THE EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER CONDITIONS WILL BE GOVERNED BY ACTUAL CONSTRUCTION (VISIBLE OR CONCEALED) AND THE EXACT LOCATION OF EXISTING FEATURES. THE DRAWINGS AND DETAILS ARE TO BE USED FOR

9. DETRIMENTAL (UNFORESEEN) CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THIS WORK WILL BE PERFORMED. NOTIFY HE A/E IF UNSOUND OR UNSAFE CONDITIONS ARE ENCOUNTERED/EXPOSED AND OBTAIN A/E DIRECTION. CORRECT CONDITIONS IN A TIMELY MANNER. DO NOT PROCEED UNTIL UNSOUND OR UNSAFE CONDITIONS ARE CORRECTED.

10. MOCKUPS OF THE WORK: CONSTRUCT MOCKUPS AND SECURE ACCEPTANCE OF MOCKUPS FROM THE A/E AND OWNER PRIOR TO PROCEEDING WITH PORTIONS OF THE WORK, AS DESCRIBED IN THE SPECIFICATIONS. DO NOT PROCEED ITH THE WORK IN OTHER AREAS UNTIL THE MOCKUPS HAVE BEEN ACCEPTED. SELECTED MOCKUPS MAY BE INCORPORATED INTO THE FINAL WORK ONLY

11. OBSERVATIONS OF THE WORK: THE CONSTRUCTION DOCUMENTS DESCRIBE POINTS DURING THE WORK AT WHICH THE OBSERVATION OF THE A/E AND OWNER IS REQUIRED BEFORE WORK MAY PROCEED. PLAN AND PROVIDE FOR THE TIMELY NOTIFICATION TO THE A/E AND OWNER WHEN MANDATORY OBSERVATION POINTS WILL BE REACHED SO THAT WORK IS NOT DELAYED. DO NOT PROCEED WITH WORK UNTIL OBSERVATION IS COMPLETE AND FURTHER WORK HAS BEEN RELEASED BY THE A/E AND OWNER.

#### **ABBREVIATIONS:**

ABBREV	/IATIONS:					REVISIONS
A A/E	ARCHITECT/ENGINEER	<b>F</b> FA	FIRE ALARM	<b>P</b> PAC	PRECAST ARCHITECTURAL CONCRETE	ISSUE DATE REVISIONS
AB ABV	ANCHOR BOLT ABOVE	FCB FCU	FIBER CEMENT BOARD FAN COIL UNIT	PERF PLAM	PERFORATED PLASTIC LAMINATE	
ACT ADJ	ACOUSTIC CEILING TILE ADJACENT/ADJUSTABLE	FD FEC	FLOOR DRAIN FIRE EXTINGUISHER CABINET	PLAS PNL	PLASTER PANEL	
AFF AGG	ABOVE FINISH FLOOR AGGREGATE	FF FFE	FACTORY FINISH FINISHED FLOOR ELEVATION	PNLG PNT	PANELING PAINT(ED)	
ALCW AL(ALUM)	ALUMINUM CURTAINWALL ALUMINUM	FIN FLG	FINISH(ED) FLASHING	POL PROJ	POLISHED PROJECTION	
ALSF ALW	ALUMINUM STOREFRONT ALUMINUM WINDOW	FLR FND	FLOOR(ING) FOUNDATION	P.T. PT	PRESSURE TREATED PORCELAIN TILE	
ANOD	ANODIZED ACCESS PANEL	F.O. FP	FACE OF FILLER PANEL	PTN PWD	PARTITION PLYWOOD	
	APPROXIMATE ARCHITECTURAL	FT FTG	FOOT (FEET) FOOTING	PVD	PIPE VENT	
B		FTG	FIN TUBE RADIATOR	<b>R</b> RA	RETURN AIR	
B&B	BOARD AND BATTEN	G		RAD	RADIUS RUBBER BASE	
BCAB BD	BASE CABINET BOARD	GA GALV	GAUGE GALVANIZED	RB RBT	RUBBER STAIR TREAD	
BLDG BLKG	BUILDING BLOCKING	GF GLAZ	GROUND FACE GLAZED, GLAZING, GLASS	RCP RD	REFLECTED CEILING PLAN ROOF DRAIN	
BLW B.O.	BELOW BOTTOM OF	GRG GWB	GLASS REINFORCED GYPSUM GYPSUM WALLBOARD	REF REQ'D	REFER; REFERENCE REQIURED	
BC BM	BROADLOOM CARPET BEAM	н		REV RSF	REVISION, REVISE(D) RESILIENT FLOORING	
BRK BTW	BRICK BETWEEN	HDPE HM	HIGH DENSITY POLYETHYLENE HOLLOW METAL	RT RM	RESILIENT TILE FLOORING ROOM	
C		HOR HR	HORIZONTAL HOUR	R.O. RTF	ROUGH OPENING RESILIENT RUBBER TILE FLOORING	
CAB	CABINET	HRWD	HARDWOOD	RWC	RAINWATER CONDUCTOR	
CB CERT	CEMENTBOARD CERTIFIED	HSS HT	HOLLOW STEEL SECTION HEIGHT	S		
CFMF CJ	COLD FORMED METAL FRAMING CONSTRUCTION/CONTROL JOINT	HVAC	HEAVING/VENTILATION/AIR CONDITIONING	S SA	SOUTH SUPPLY AIR	
CL CLG	CENTERLINE CEILING	HWH	HOT WATER HEATER	SAU SBC	SELF ADHERING UNDERLAYMENT SINK BASE CABINET	
CLR CMU	CLEAR/ CLEARANCE CONCRETE MASONRY UNIT	<b>I</b> IGU	INSULATED GLAZING UNIT	SBO SFI	SUPPLIED BY OTHERS SPRAY FOAM INSULATION	PHILADO
COL COMP	COLUMN COMPOSITE	INCL	INCLUDING/INCLUDED INFORMATION	SGT SIM	STRUCTURAL GLAZED TILE SIMILAR	PHILADELPHIA MANETO
CONC	CONCRETE CONTINUOUS	INSUL	INFORMATION INSULATED, INSULATION INTERIOR	SIP SL	STRUCTURAL INSULATED PANEL SLOPED/SLOPE	
COORD	COORDINATE CORRUGATED	1		SOG SSTL	SLAB ON GRADE STAINLESS STEEL	
CPT	CARPET TILE	<b>J</b> JT	JOINT	STD	STANDARD	
CT CUH	CERAMIC TILE CABINET UNIT HEATER	L		STL STN	STEEL STAIN(ED)	
CW	CURTAINWALL	LAM LF	LAMINATED LINEAR FEET	STRUC SUSP	STRUCTURAL SUSPENDED	
<b>D</b> DEMO	DEMOLISH/DEMOLITION	LG LIN	LONG LINOLEUM	т		CONSTRUCTION DOCUMENTS
DIA DIM	DIAMETER DIMENSION	LLV LTL	LONG LEG VERTICAL LINTEL	TER TF	TERRAZZO TRANSPARENT FINISH	
DN DR	DOWN DOOR	LT LT LOUV	LIGHT LOUVER	THK TLT	THICKNESS TOILET	LEEANN SUEN
DR DS DTL	DOOR DOWNSPOUT DETAIL		LOUVEIN	TPTN T.O.	TOILET PARTITION TOP OF	
DTL DWG(S)	DETAIL DRAWING(S)	M MAS	MASONRY	TYP	TYPICAL	SEALS
E	5465	MAS DIM MATL	MASONRY DIMENSION MATERIAL	T&G	TONGUE AND GROOVE	
E EA	EAST EACH	MAX MDF	MAXIMUIM MEDIUM DENSITY FIBERBOARD	<b>U</b> UNO	UNLESS NOTED OTHERWISE	STERED ARCHINE
EJ EL	EXPANSION JOINT ELEVATION	MECH	MECHANICAL MANUFACTURER	v		SENNSYLVAN STER
ELEC ELEV	ELECTRICAL ELEVATOR	MGP MIN	MARINE GRADE PLYWOOD MINIMUM	VAR VERT	VARIES/VARIOUS VERTICAL	13/17=12/1/
EMER	EMERGENCY ELECTRICAL PANEL	M.O. MR	MASONRY OPENING MOISTURE RESISTANT	VEST VIF	VESTIBULE VERIFY IN FIELD	
EPX EQ	EPOXY EQUAL	MTD	MOUNTED	VTR	VENT THROUGH ROOF	Sector
EQ EQPM ES	EQUAL EQUIPMENT EXPOSED STRUCTURE	MTL MULL	METAL MULLION	W W	WEST	MARD NO. RANNING
ETR	EXISTING TO REMAIN	N		W/	WITH	and the second
EWC EXP	ELECTRIC WATER COOLER EXPOSED	N NA	NORTH NOT APPLICABLE	W/O WB	WITHOUT WALL BASE	
EXG EXT	EXISTING EXTERIOR	NAT NIC	NATURAL NOT IN CONTRACT	WC WCAB	WATER CLOSET WALL CABINET	<b>SMP</b> ARCHITECTS
		NOM NTS	NOMINAL NOT TO SCALE	WD WDP	WOOD WOOD PANEL	1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103
		0		WF WIN	WIDE FLANGE WINDOW	215 985 4410
		OC OFE	ON CENTER OWNER FURNISHED EQUIPMENT	WOM WSCT	WALK OFF MAT WAINSCOT	LANDSCAPE ARCHITECT:
		OH	OPPOSITE HAND	X		GROUND RECONSIDERED www.groundreconsidered.com
		OPP OPG	OPPOSITE OPENING	XPS	EXTRUDED POLYSTYRENE	215 790 0727
		OSB OTLN	ORIENTED STRAND BOARD OUTLINE			CIVIL ENGINEER: KS ENGINEERS
						www.kseng.com 215 925 0425
						STRUCTURAL ENGINEER:
ENCE SYMBOL	<u>L5:</u>		PARTIT	ΓΙΟΝ		ANN ROTHMANN STRUCTURAL ENGINEERING
	M NAME		NUMBE			arstructural.com 610 688 2566
TIFICATION 1	101	PARTITION T	(PE		DATUM ELEVATION	MEP ENGINEER:
	DIRECTION OF BUILDING SECTION		DRAWI	ING ID NO.		ARORA ENGINEERS www.aroraengineers.com
	DRAWING ID NO.			OF DETAIL		610 459 7900
					SPOT ELEVATION PEL 0-0"	ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT
		DETAIL				stevemclaughlin.biz 856 287 2424
	SHEET ID NO.		$\backslash$		BREAKLINE	
	DIRECTION OF		SHEET	ID NO.	$\sim$	
	DETAIL SECTION DRAWING ID NO.				$\begin{pmatrix} 1 \end{pmatrix}$	CITY OF PHILADELPHIA
	1			ing ID No. Tion of		DEPARTMENT OF PARKS & RECREAT
(A	A01		ROOM	ELEVATION		1515 ARCH STREET
	SHEET ID NO.	ROOM ELEVA				1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING
(100			SHEET	ID NO.	 G	PHILADELPHIA PENNSYL
				TION OF	Ľ	PROJECT TITLE
			ELEVA			RENOVATIONS TO THE HAPPY
	-	BUILDING				HOLLOW RECREATION CENTER
1	$\sim$	ELEVATION	A01			DRAWING TITLE
$\sim$ $\ell_{n}$	لمستريس		SHEET	ID NO.	LOUVER TAG	
						GENERAL NOTES, ABBREVIATIONS, MATERIALS, REFERENCE
(	$\uparrow$				CN-1	SYMBOLS
ow	$\mathbf{\nabla}$	GRAPHIC SCA	ALE 0' 3" 6"	12"	KEYED NOTE	PROJECT NO. DRAWING NO.
						16315E-03-02
						DATE 05/13/2025
						SCALE AS NOTED
						DRAWN RY
						SCR FILE:
						NOTE:

	X A X	
Ε		

ALUMINUM

(LARGE SCALE)

CONCRETE

SLATE

FIBERBOARD

FIBER CEMENT BD

INSUL

SPRAY APPLIED

PLASTER, GWB, GROUT

 $\langle \rangle$ CUT STONE

BATT/LOOSE MEDIUM DENSITY FILL/INSUL

MINERAL WOOL

INSULATION

GLASS (SMALL SCALE)



ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

## PROJECT INFORMATION:

## CODE SUMMARY (A

IEBC CHAPTER PROPOSED TOTAL WOR

IEBC CHAPTER 810.1 ENER LEVEL 2 REQUIF OF IEBO

CHAPTER 3: OC NO PROPO ASSEN

CHAPTER 4: SP N/A

CHAPTER 5: GE NO PROPO EXISTING B EXISTING B

CHAPTER 6: TY CONSTRUC FIRE RE PRII

BEA NON FLO ROC

FIRE RE 10<

CHAPTER 7: FIF 705.3 BUILD AGGRE (TABLE A-3

CHAPTER 8: INT INTERIOR W (TABLE 803 INTERIO CORRIE

CHAPTER 9: FIF 906.1 PORT TABLE 906.3

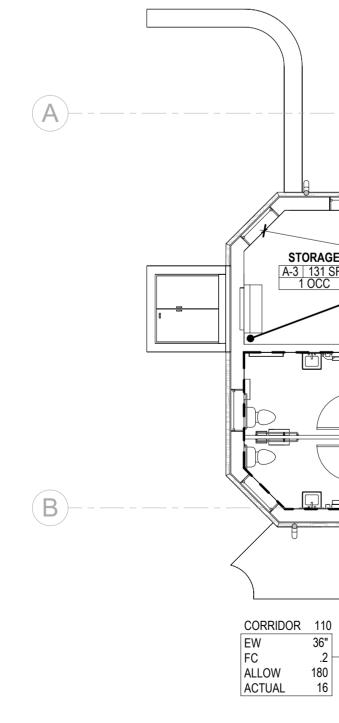
CHAPTER 10: M OCCUPANT EXIT AN

WHERE COMBIN PLACED OVERA STRAIG

EXIT ACCES MAX TR

IPC CHAPTER 4: MIN NUMBE GYMNA P424 WA

NO CHANGE IN



1 LIFE SAFETY PLAN A0.2 1/8" = 1'-0"

E AND USEABLE BUILDINGS AND FACILITIES 2017 OF PHILADELPHIA (A117.1, 2017)							
Y (ALL REFERENCES TO IBC 2018 UNO):							
TER 6: CLASSIFICATION OF WORK SED WORK IS <b>ALTERATION LEVEL 2</b> WORK AREA: 424 SQFT							
TER 8: ALTERATIONS - LEVEL 2 NERGY CONSERVATION EL 2 ALTERATIONS TO EXISTING BUILDINGS OR STRUCTURES ARE PERMITTED WITHOUT QUIRING THE ENTIRE BUILDING OR STRUCTURE TO COMPLY WITH THE ENERGY REQUIREMENTS EBC.							
: OCCUPANCY CLASSIFICATION & USE POSED CHANGES TO OCCUPANCY CLASSIFICATION & USE SEMBLY GROUP A-3							
SPECIAL DETAILED REQUIREMENTS				000	IPANT LOAD		
GENERAL BUILDING HEIGHTS & AREAS	OCCUPANCY		ROOM				SF/
POSED CHANGES TO HEIGHT OR AREA G BUILDING AREA: 1,455 SF (BASEMENT) + 3,544 SF (1ST FLOOR) = 4,999 SF G BUILDING HEIGHT: 1 STORY W/ PARTIAL BASEMENT	CLASSIFICATION FIRST FLOOR FFE	NUMBER		AREA	FUNCTION (TABLE 1004.5)	I	CCUPANT OCCUPANT LOAD
: TYPES OF CONSTRUCTION RUCTION CLASSIFICATION: III-B, UNSPRINKLERED	ASSEMBLY GROUP A-3 ASSEMBLY GROUP A-3 ASSEMBLY GROUP A-3	103	COMPUTER ROOM GAMING ROOM OFFICE	106 SF	Educational - Classroom area Educational - Classroom area Business Areas	20 N 20 N 150	
E RESISTANCE RATINGS (TABLE 601) PRIMARY STRUCTURAL FRAME 0 HOURS	ASSEMBLY GROUP A-3	106	ACTIVITIES ROOM - EXERCISE		Exercise rooms		BROSS 22
BEARING WALLS       2 HOURS         NON BEARING WALLS       0 HOURS         FLOOR CONSTRUCTION       0 HOURS	ASSEMBLY GROUP A-3	106	ACTIVITIES ROOM - ASSEMBLY		Assembly without fixed seats - Unconcentrated (ta chairs)	ables and 15 N	IET 62
ROOF CONSTRUCTION 0 HOUR	ASSEMBLY GROUP A-3		BREAKROOM		Assembly without fixed seats - Unconcentrated (ta chairs)		
E RESISTANCE RATING REQS FOR EXT WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602) 10 <x<30 -="" 1hr<="" a="" group="" occupancy="" td=""><td>ASSEMBLY GROUP A-3 ASSEMBLY GROUP A-3</td><td>111</td><td>STORAGE STORAGE</td><td></td><td>Accessory storage areas, mechanical equipment r Accessory storage areas, mechanical equipment r</td><td></td><td>GROSS 1 GROSS 1</td></x<30>	ASSEMBLY GROUP A-3 ASSEMBLY GROUP A-3	111	STORAGE STORAGE		Accessory storage areas, mechanical equipment r Accessory storage areas, mechanical equipment r		GROSS 1 GROSS 1
: FIRE AND SMOKE PROTECTION FEATURES JILDINGS ON THE SAME LOT GREGATE AREA OF BUILDINGS = 8,075 SQFT BLE 506.2 ALLOWABLE AREA DETERMINATION) A-3 - TYPE IIB/IIIB - NS - 9,500 SQFT (> 8,075 SQFT) BUILDINGS SHALL BE TREATED AS ONE BUILDING	TOTAL BUILDING OCCUPA						119
INTERIOR FINISHES DR WALL & CEILING FINISHES BASED ON OCCUPANCY	CODE PLAN KEY		PACITY		OCCUPANCY		SYMBOLS
803.13, OCCUPANCY GROUP A-3 GOVERNS) ERIOR EXIT STAIRWAYS / EXIT PASSAGEWAYS RRIDORS/ENCLOSURE FOR EXIT ACCESS STAIRWAYS	EXIT / STAIR / CORR		TYPE MARK	0001154110	SPACE NAME		EXIT SIGN. SEE A6 SERIES
DMS AND ENCLOSED SPACES FIRE PROTECTION & LIFE SAFETY SYSTEMS DRTABLE FIRE EXTINGUISHERS ARE REQUIRED IN EXSITING GROUP A OCCUPANCY	CODE WII ALLOWABI	DTH FACTOR	-C 0.2/0.3 ALLOW -	OCCUPANC CLASSIFICATION	ADMIN SUITE (IF APPLICABLE) B 1200SF AREA 8 OCC OCCUPANT COUNT		FOR EXACT LOCATION AND DIRECTION.
006.3: FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS, LOW HAZARD OCCUPANCY MINIMUM RATED SINGLE EXTINGUISHER = 2-A MAXIMUM FLOOR AREA PER UNIT OF A = 3000 SF	RA	TED WALLS		TRAVEL	DISTANCE TO NEAREST EXIT		FIRE EXTINGUISHER CABINET (SURFACE MOUNTED, UNO)
MAXIMUM FLOOR AREA FOR EXTINGUISHER = 11,250 SF MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER = 75 FEET	(FIRE BARR	FIRE PARTITIO	TED)	٩			(,,,,
0: MEANS OF EGRESS ANT LOAD: <b>SEE TABLES BELOW</b>		<b>_</b> · <b>_</b> ·			48'-6"		
TAND EXIT ACCESS DOORWAY CONFIGURATION (1007) ERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY MBINATION THERE OF, ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS THEY SHALL BE CED <b>A DISTANCE EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM</b> ERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A AIGHT LINE BETWEEN THEM. (CESS DISTANCE (TABLE 1017.2)	• •			PATH OF TRAVE			
(TRAVEL DISTANCE 250' (OCCUPANCY A, UNSPRINKLERED) ER 4: FIXTURES, FAUCETS, AND FIXTURE FITTINGS WBER OF REQ'D PLUMBING FIXTURES WNASIUMS: 1 PER 125 OCCUPANTS P424.2 URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67 PERCENT OF THE REQUIRED WATER CLOSETS IN ASSEMBLY AND EDUCATIONAL OCCUPANCIES. E IN EXG FIXTURE COUNT.							
RAGE BREAKROOM A-3 200 SF 14 OCC 14 OCC 12 72 12 72	ACTIVITIES ROOM - EXERCISE A-3 1071 SF 22 OCC	NEW FEC —	GAMING ROOM A-3 106 SF 6 OCC		COMPUTER ROOM A-3 233 SF 12 OCC		
NEW FEC ACTIVITIES ROOM - ASSEMBLY A-3 129 SF 10CC 10CC				FFICE			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20' - 0"	EXIT 100 EW 42" FC .2 ALLOW 210 ACTUAL 19	CORRIDOR 100 EW 36" FC 2 ALLOW 180 ACTUAL 19		

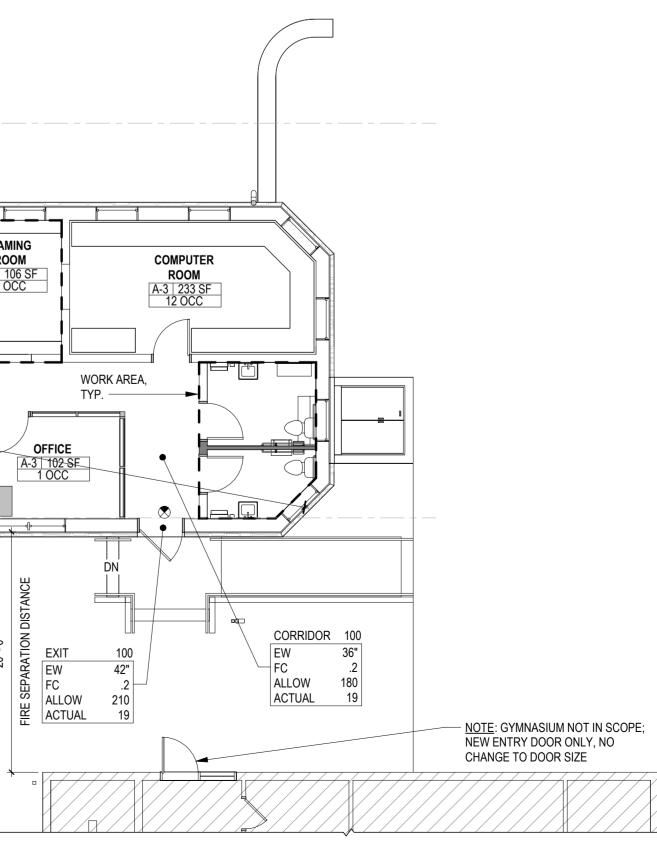
## RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER THE CITY OF PHILADELPHIA, DEPARTMENT OF PARKS AND RECREATION 1515 ARCH STREET, 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA, PA 19104

CODES REFERENCED: PHILADELPHIA EXISTING BUILDING CODE (IEBC 2018) PHILADELPHIA BUILDING CODE (IBC 2018)

PHILADELPHIA PLUMBING CODE (IPC 2018) ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES 2017 OF PHILADELPHIA (A117.1, 2017)

- BUI

CODE PLAN KEY		
DOOR / CORRIDOR / STAIR CAPACITY	OCCUPANCY	SYMBOLS
EXIT / STAIR / CORRIDOR WIDTH CODE WIDTH FACTOR ALLOWABLE CAPACITY ACTUAL CAPACITY	OCCUPANCY CLASSIFICATION OCCUPANCY B 1200 B 0CC SPACE NAME (IF APPLICABLE) AREA OCCUPANT COUNT	EXIT SIGN. SEE A6 SERIES FOR EXACT LOCATION AND DIRECTION.
RATED WALLS	TRAVEL DISTANCE TO NEAREST EXIT	
1 HOUR FIRE PARTITION (FIRE BARRIER WHERE NOTED) 2 HOUR FIRE BARRIER	PATH OF TRAVEL A TRAVEL DISTANCE	(SURFACE MOUNTED, UNO)



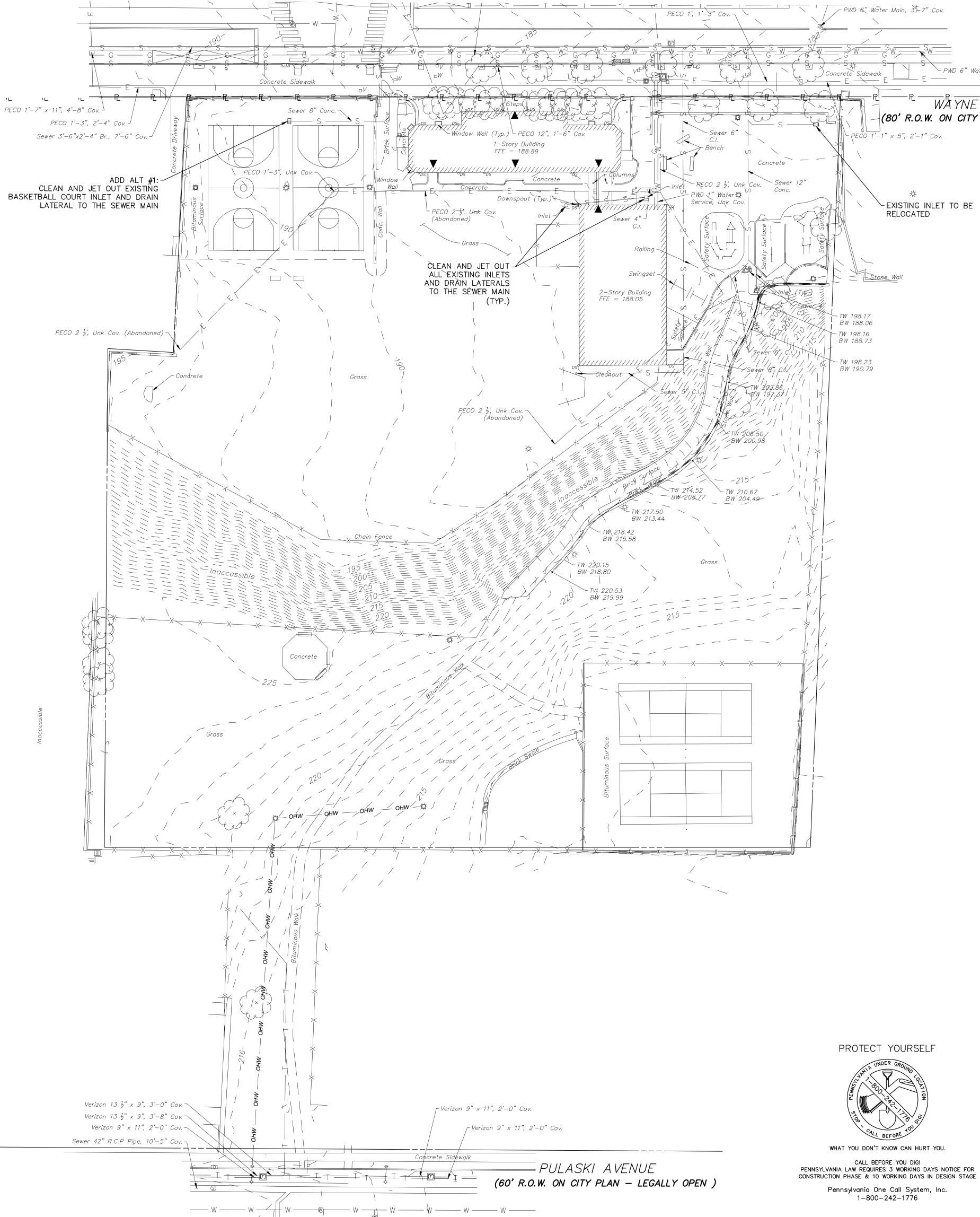
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C DEPAF	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION arch street
C DEPAF 11 PHILADELPH PROJECT TITLE	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA
C DEPAF 11 PHILADELPH PROJECT TITLE RENC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA
C DEPAF 11 PHILADELPH PROJECT TITLE RENC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA
C DEPAF 11 PHILADELPH PROJECT TITLE RENC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLO DRAWING TITLE BU	RTMENT O 1515 TH FLOOR, C NATION OVATION DW REC ILDING CC	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION DRAWING NO.
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLO DRAWING TITLE BU	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION
C DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLC DRAWING TITLE BU PROJECT NO. 163	RTMENT O 1515 TH FLOOR, C NATION OVATION DW REC ILDING CC	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION
DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLLO DRAWING TITLE BU PROJECT NO. 163 DATE 0 SCALE	RTMENT O 1515 TH FLOOR, C NOTION OVATION OW REC ILDING CC 15E-03-0	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION DRAWING NO.
DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLO DRAWING TITLE BU PROJECT NO. 163 DATE 0 SCALE AS DRAWIN BY	RTMENT O 1515 TH FLOOR, C A OVATION OVATION OW REC ILDING CC 15E-03-0 5/13/2025 S NOTED	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION
DEPAF 11 PHILADELPH PROJECT TITLE RENC HOLLO DRAWING TITLE BU PROJECT NO. 163 DATE 0 SCALE AS DRAWN BY SC CHECKED BY	ATMENT O 1515 TH FLOOR, C A OVATION OVATION OW REC ILDING CC 15E-03-0 5/13/2025	F PARKS & RECREATION ARCH STREET INE PARKWAY BUILDING PENNSYLVANIA IS TO THE HAPPY REATION CENTER DE INFORMATION

## EXISTING LEGEND

G G W SS DDD	CONCRETE CURB MAJOR CONTOUR LINE MINOR CONTOUR LINE GAS LINE POTABLE WATER SANITARY SEWER STORM SEWER TELECOMMUNICATION CONDUIT ELECTRIC CONDUIT
<ul> <li>◊</li> <li>◊ / ◊ ◊</li> <li>◊</li> <li>◊</li></ul>	FIRE HYDRANT UTILITY POLE/STREET LIGHT LIGHT POLE TRAFFIC LIGHT SIGN TREE UNDER GROUND STORAGE TANK CITY INLET GRATE INLET OMG INLET PROPERTY LINE EASEMENT LINE



- 1. SURVEY INFORMATION OBTAINED FROM A FIELD SURVEY PERFORMED BY KS ENGINEERS, P.C. IN JUNE 2023. SURVEY BASED ON P.A.S.P.C.S. (SOUTH ZONE) NAD83. BEARINGS SHOWN ARE PER CITY PLAN AND DEED OF RECORD. ELEVATIONS ARE REFERENCED TO THE PHILADELPHIA CITY DATUM.
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- 4. UNDERGROUND UTILITIES AS SHOWN TAKEN FROM FIELD EVIDENCE AND PLANS AS PROVIDED BY THE VARIOUS UTILITY AUTHORITIES (PA ONE CALL SERIAL NOS. 20231392686, 20231392742, 20231392743, 20231392798, 20231392846, AND 20231392847). THE ACCURACY REGARDING UTILITY LOCATION AND/OR DEPTH CANNOT BE GUARANTEED AND ADDITIONAL UNDERGROUND UTILITIES NOT DEPICTED ON THIS PLAN MAY EXIST. BEFORE EXCAVATIONS ARE BEGUN, THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 3-10 DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
- 5. INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 6. SITE LIES WITHIN THE MAPPED LIMITS OF FLOOD ZONE X, AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NO. 4207570095G, DATED 01/17/2007 FOR THE CITY OF PHILADELPHIA.
- PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE AND THERE ARE NO WETLANDS ON SITE. THERE ARE NO WATER COURSES OR BODIES OF WATER LOCATED WITHIN 100 FEET OF THE PROPERTY.



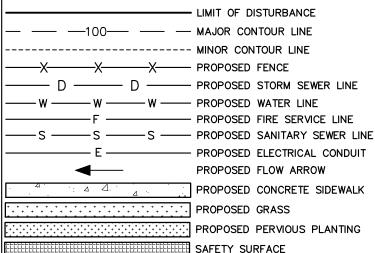


CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

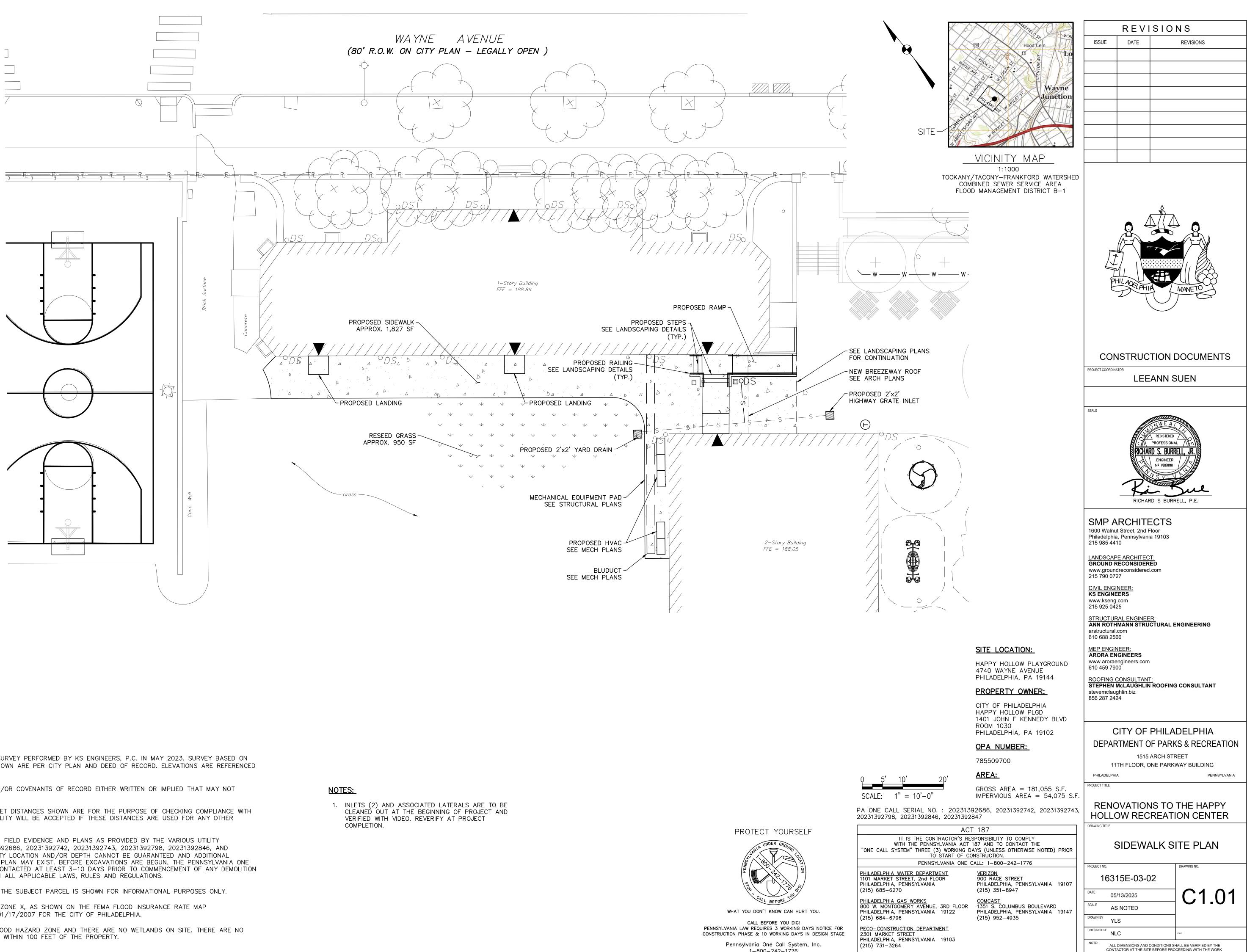
PECO-CONSTRUCTION DEPARTMENT 450 S HENDERSON ROAD SUITE B KING OF PRUSSIA, PENNSYLVANIA 19406 (484) 681-5720

EXISTING	LEGEND
\/////////////////////////////////////	BUILDING
	CONCRETE CURB
	- MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	GAS LINE
	POTABLE WATER
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E	ELECTRIC MANHOLE
	WATER MANHOLE
- <i>W</i>	WATER VALVE
□ <i>G</i>	GAS VALVE
- <i>?</i>	UNKNOWN VALVE
	SEWER VENT
ğ	FIRE HYDRANT
♦ / ♦\$	UTILITY POLE/STREET LIGHT
¢	LIGHT POLE
-&-	TRAFFIC LIGHT
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	UNDER GROUND STORAGE TANK
() U.G.S.T.	
0	CITY INLET
	GRATE INLET
	OMG INLET
	PROPERTY LINE
	EASEMENT LINE

#### PROPOSED LEGEND



- LIMIT OF DISTURBANCE MINOR CONTOUR LINE - D - PROPOSED STORM SEWER LINE - PROPOSED ELECTRICAL CONDUIT PROPOSED FLOW ARROW PROPOSED CONCRETE SIDEWALK PROPOSED GRASS PROPOSED PERVIOUS PLANTING SAFETY SURFACE



#### **GENERAL NOTES:**

- 1. SURVEY INFORMATION OBTAINED FROM A FIELD SURVEY PERFORMED BY KS ENGINEERS, P.C. IN MAY 2023. SURVEY BASED ON P.A.S.P.C.S. (SOUTH ZONE) NAD83. BEARINGS SHOWN ARE PER CITY PLAN AND DEED OF RECORD. ELEVATIONS ARE REFERENCED TO THE PHILADELPHIA CITY DATUM.
- 2. SUBJECT TO ALL RESTRICTIONS, EASEMENTS AND/OR COVENANTS OF RECORD EITHER WRITTEN OR IMPLIED THAT MAY NOT APPEAR OF THIS PLAN.
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- 4. UNDERGROUND UTILITIES AS SHOWN TAKEN FROM FIELD EVIDENCE AND PLANS AS PROVIDED BY THE VARIOUS UTILITY AUTHORITIES (PA ONE CALL SERIAL NOS. 20231392686, 20231392742, 20231392743, 20231392798, 20231392846, AND 20231392847). THE ACCURACY REGARDING UTILITY LOCATION AND/OR DEPTH CANNOT BE GUARANTEED AND ADDITIONAL UNDERGROUND UTILITIES NOT DEPICTED ON THIS PLAN MAY EXIST. BEFORE EXCAVATIONS ARE BEGUN, THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 3-10 DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
- 5. INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 6. SITE LIES WITHIN THE MAPPED LIMITS OF FLOOD ZONE X, AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NO. 4207570095G, DATED 01/17/2007 FOR THE CITY OF PHILADELPHIA.
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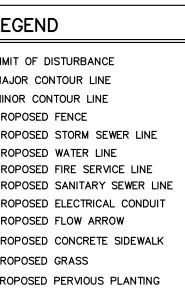


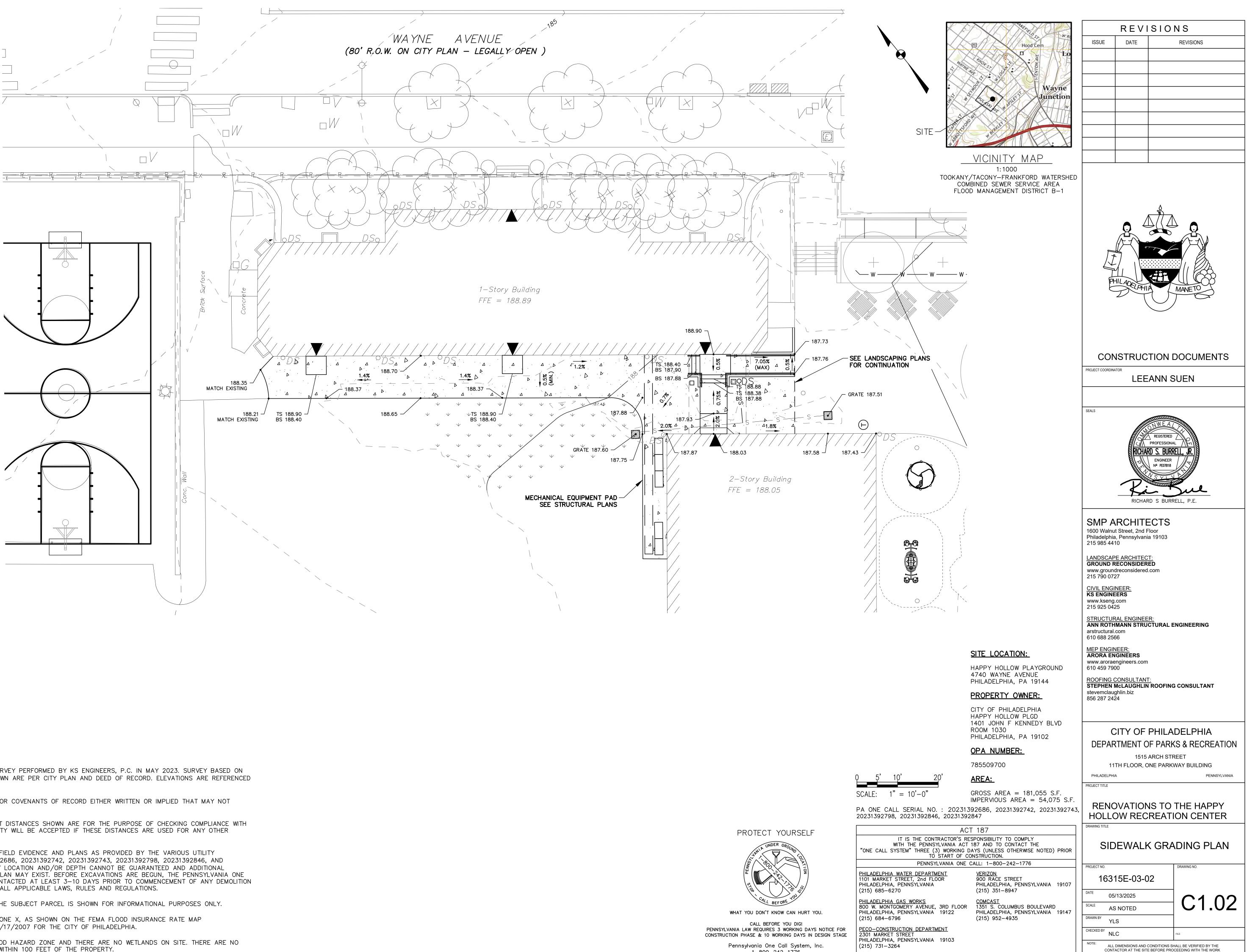
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EXISTING I	EGEND
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### PROPOSED LEGEND

				LIMIT OF	DISTURBA
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				CALETA C	





#### **GENERAL NOTES:**

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1-800-242-1776

## EXISTING LEGEND

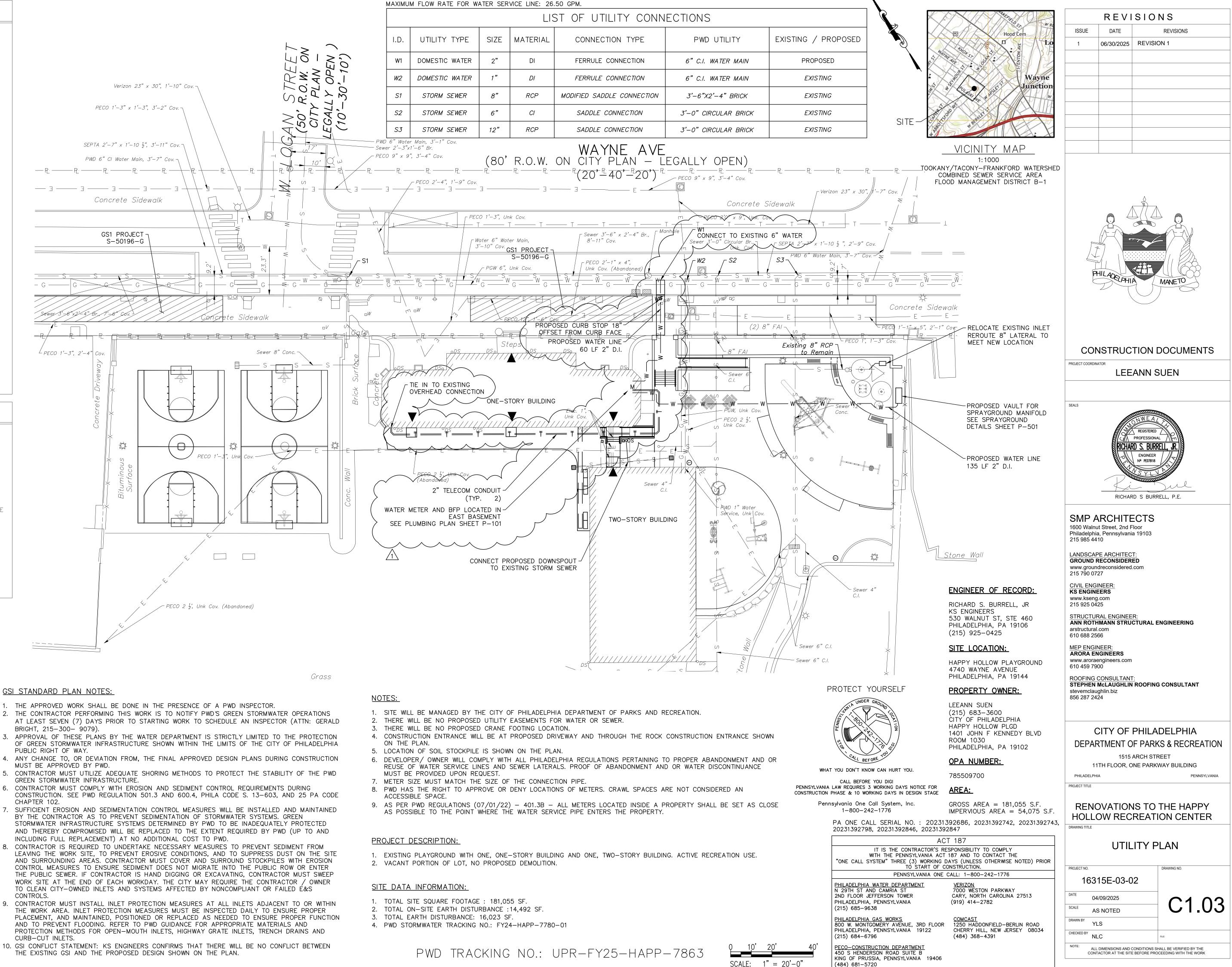
	LEGEND
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	LIGHT POLE
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	SIGN
$\left\{ \begin{array}{c} + \end{array} \right\}$	TREE
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$\bigcirc$	CITY INLET
	GRATE INLET
	OMG INLET
₽  ₽₽₽₽	PROPERTY LINE
	EASEMENT LINE

## PROPOSED LEGEND

LOD	LIMIT OF DISTURBANCE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
X X X X	PROPOSED FENCE
D D D	PROPOSED STORM SEWER LINE
wwwww	PROPOSED WATER LINE
F	PROPOSED FIRE SERVICE LINE
ssss	PROPOSED SANITARY SEWER LINE
E	PROPOSED ELECTRICAL CONDUIT
▲—	PROPOSED FLOW ARROW
	PROPOSED CONCRETE SIDEWALK
	PROPOSED GRASS
	PROPOSED PERVIOUS PLANTING
	SAFETY SURFACE
М	WATER METER AND BFP

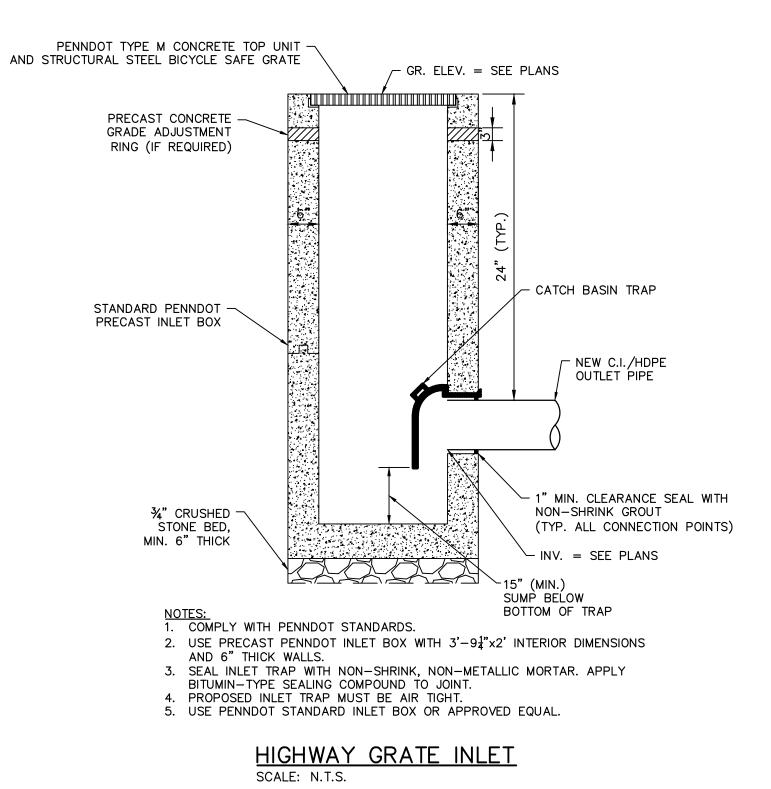
#### **GENERAL NOTES:**

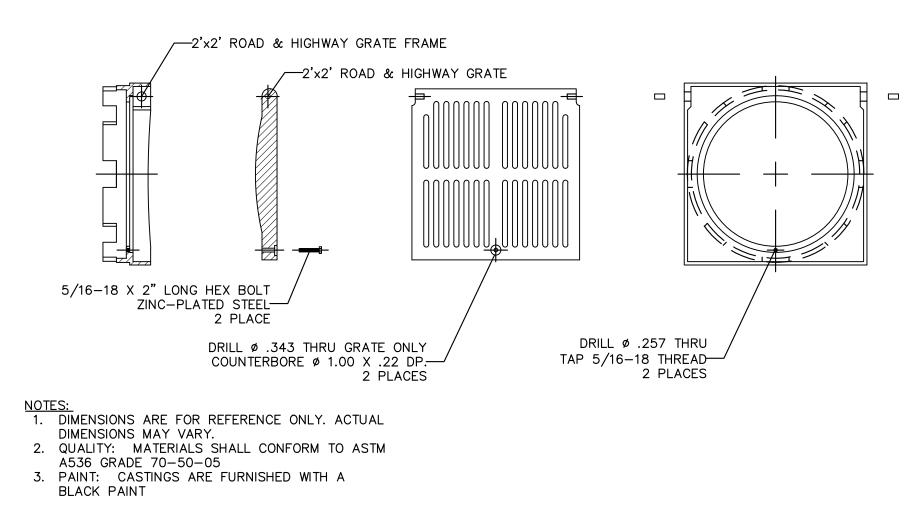
- 1. SURVEY INFORMATION OBTAINED FROM A FIELD SURVEY PERFORMED BY KS ENGINEERS, P.C. IN MAY 2023. SURVEY BASED ON P.A.S.P.C.S. (SOUTH ZONE) NAD83. BEARINGS SHOWN ARE PER CITY PLAN AND DEED OF RECORD. ELEVATIONS ARE REFERENCED TO THE PHILADELPHIA CITY DATUM.
- 2. SUBJECT TO ALL RESTRICTIONS, EASEMENTS AND/OR COVENANTS OF RECORD EITHER WRITTEN OR IMPLIED THAT MAY NOT APPEAR OF THIS PLAN.
- 3. IF BUILDINGS ARE ON THIS PLAN, BUILDING OFFSET DISTANCES SHOWN ARE FOR THE PURPOSE OF CHECKING COMPLIANCE WITH ZONING AND DEED RESTRICTIONS ONLY. NO LIABILITY WILL BE ACCEPTED IF THESE DISTANCES ARE USED FOR ANY OTHER PURPOSES.
- 4. UNDERGROUND UTILITIES AS SHOWN TAKEN FROM FIELD EVIDENCE AND PLANS AS PROVIDED BY THE VARIOUS UTILITY AUTHORITIES (PA ONE CALL SERIAL NOS. 20231392686, 20231392742, 20231392743, 20231392798, 20231392846, AND 20231392847). THE ACCURACY REGARDING UTILITY LOCATION AND/OR DEPTH CANNOT BE GUARANTEED AND ADDITIONAL UNDERGROUND UTILITIES NOT DEPICTED ON THIS PLAN MAY EXIST. BEFORE EXCAVATIONS ARE BEGUN, THE PENNSYLVANIA ONE CALL SYSTEM AT 1-800-242-1776 SHALL BE CONTACTED AT LEAST 3-10 DAYS PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION ACTIVITIES IN ACCORDANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
- 5. INFORMATION PERTAINING TO LOTS OTHER THAN THE SUBJECT PARCEL IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 6. SITE LIES WITHIN THE MAPPED LIMITS OF FLOOD ZONE X, AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NO. 4207570095G, DATED 01/17/2007 FOR THE CITY OF PHILADELPHIA.
- 7. PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE AND THERE ARE NO WETLANDS ON SITE. THERE ARE NO WATER COURSES OR BODIES OF WATER LOCATED WITHIN 100 FEET OF THE PROPERTY.



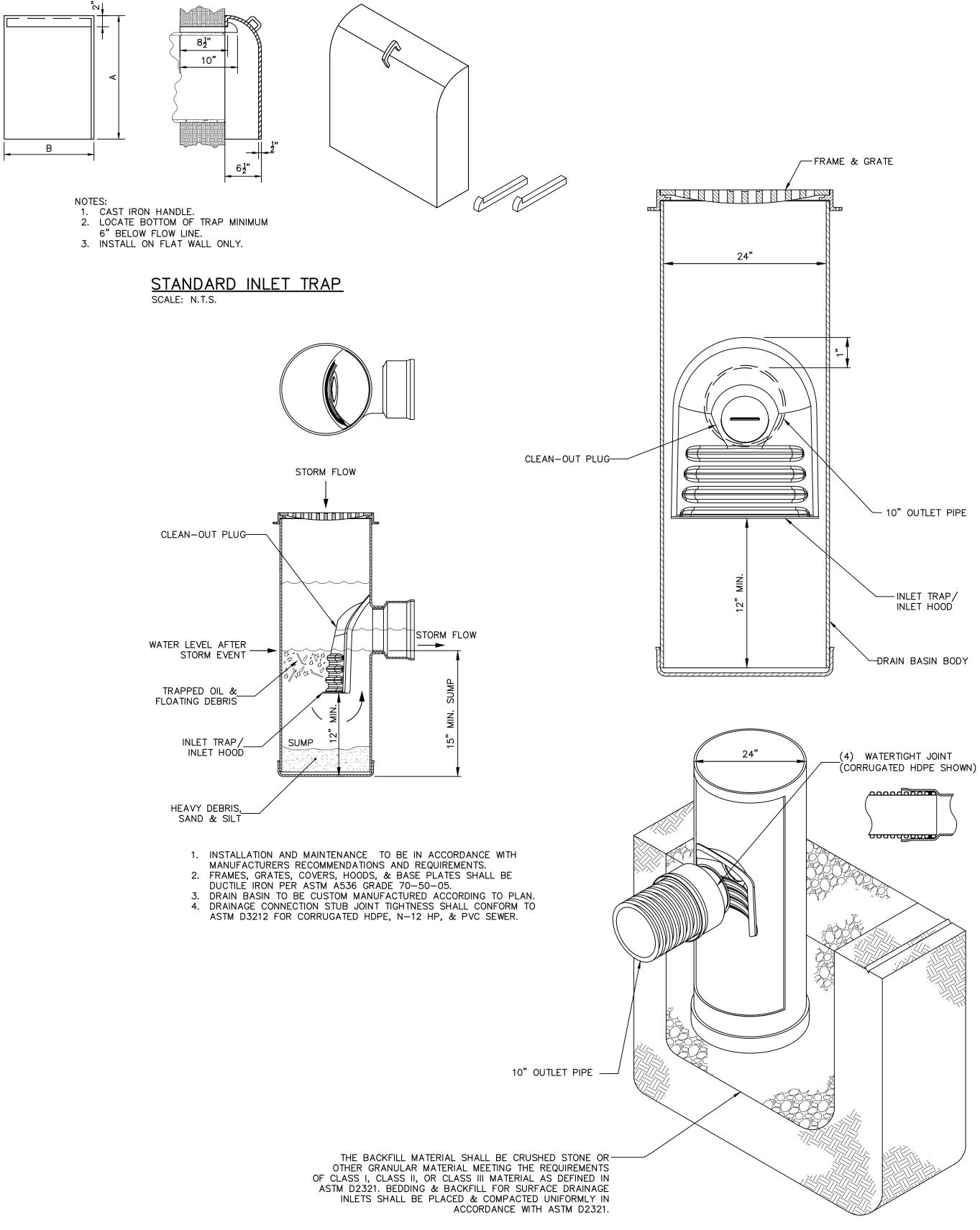
GSI STANDARD PLAN NOTES:

- 1. THE APPROVED WORK SHALL BE DONE IN THE PRESENCE OF A PWD INSPECTOR
- BRIGHT, 215-300- 9079).
- PUBLIC RIGHT OF WAY.
- MUST BE APPROVED BY PWD.
- GREEN STORMWATER INFRASTRUCTURE.
- CHAPTER 102.
- INCLUDING FULL REPLACEMENT) AT NO ADDITIONAL COST TO PWD.
- CONTROLS.
- CURB-CUT INLETS.
- THE EXISTING GSI AND THE PROPOSED DESIGN SHOWN ON THE PLAN.

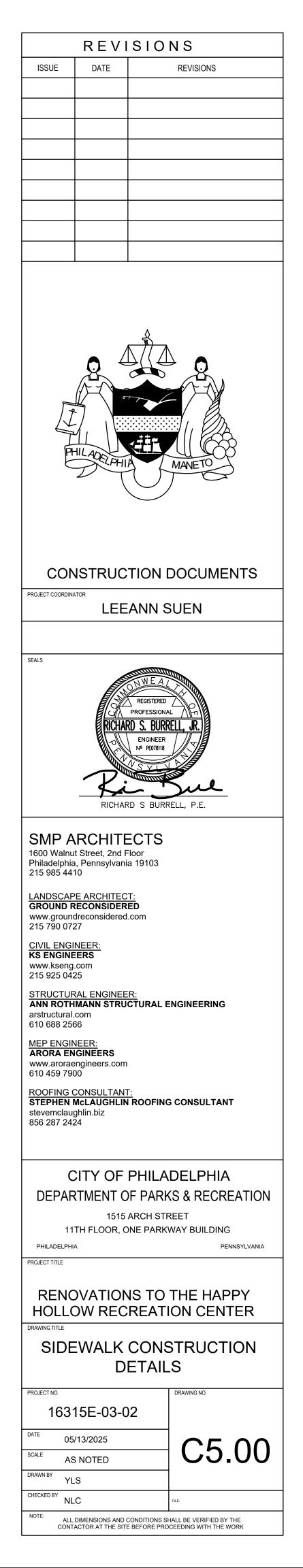




2'x2' GRATE SCALE: N.T.S.



YARD DRAIN SCALE: N.T.S.



EXISTING L	EGEND
G G G W SSS DDD	CONCRETE CURB MAJOR CONTOUR LINE MINOR CONTOUR LINE GAS LINE POTABLE WATER SANITARY SEWER STORM SEWER TELECOMMUNICATION CONDUIT ELECTRIC CONDUIT
$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & &$	FIRE HYDRANT UTILITY POLE/STREET LIGHT LIGHT POLE TRAFFIC LIGHT SIGN TREE UNDER GROUND STORAGE TANK CITY INLET GRATE INLET OMG INLET PROPERTY LINE EASEMENT LINE

## PROPOSED LEGEND

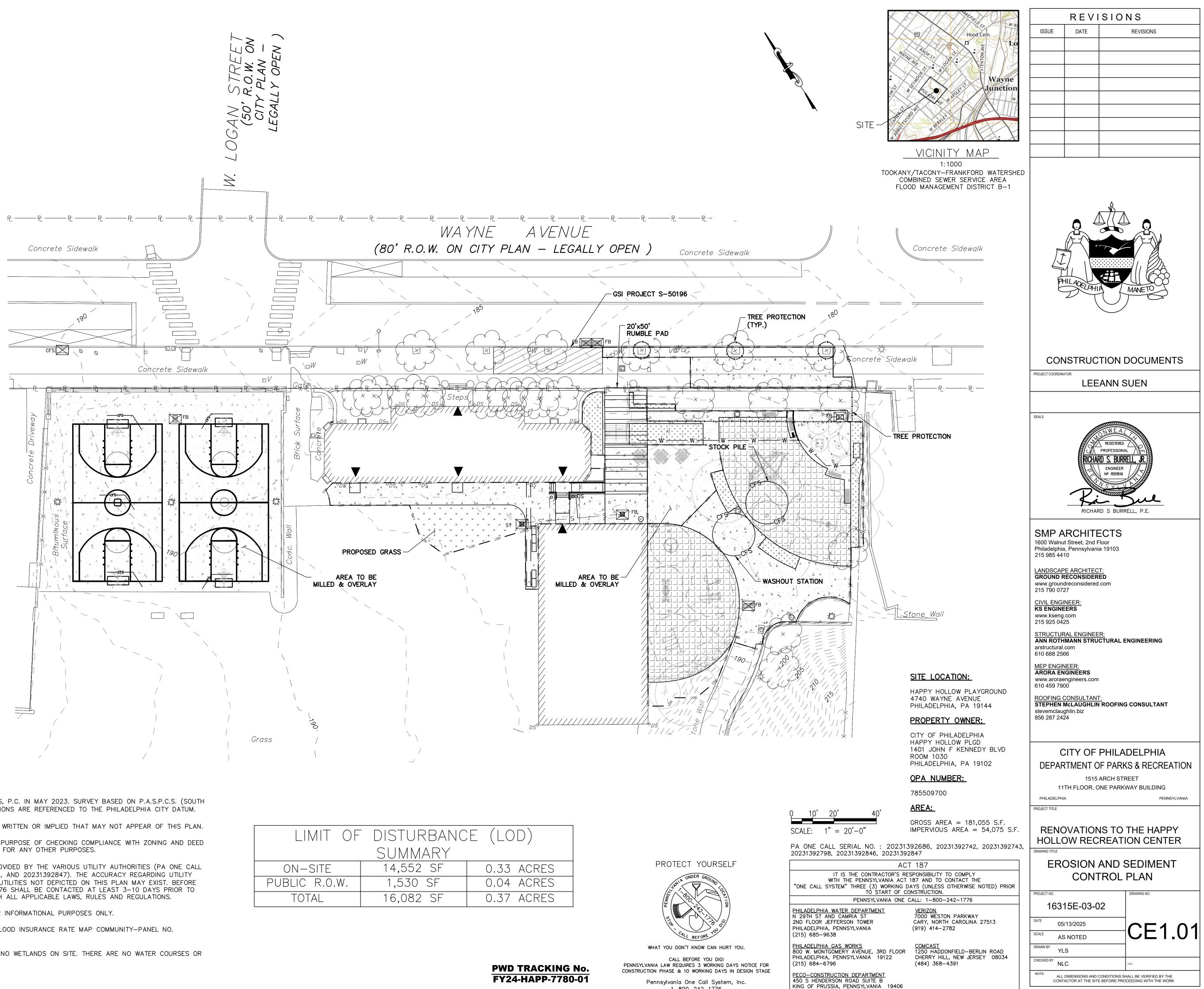
LOD	LIMIT OF DISTURBANCE
	MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
xx	PROPOSED FENCE
D D D D	PROPOSED STORM SEWER LINE
wwwww	PROPOSED WATER LINE
F	PROPOSED FIRE SERVICE LINE
ssss	PROPOSED SANITARY SEWER LINE
E	PROPOSED ELECTRICAL CONDUIT
	PROPOSED FLOW ARROW
	PROPOSED CONCRETE SIDEWALK
	PROPOSED GRASS
	PROPOSED PERVIOUS PLANTING
	SAFETY SURFACE

## EROSION CONTROL LEGEND

CFS	COMPOST FILTER SOCK
FB	FILTER BAG INLET PROTECTION
ST	STONE BLOCK INLET PROTECTION
CFS	COMPOST FILTER SOCK INLET PROTECTION
xxxxxxx	TREE PROTECTION FENCE
LOD	LIMIT OF DISTURBANCE AND PROJECT SITE BOUNDARY
<u>oo</u> oo	SILT FENCE
	RUMBLE PAD



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- 8. PAVEMENT SUBBASE SHALL NOT BE EXPOSED DURING THE MILLING PROCESS.
- 9. ALL TEMPORARY PERIMETER FENCING SHALL HAVE DUST CONTROL FABRIC.

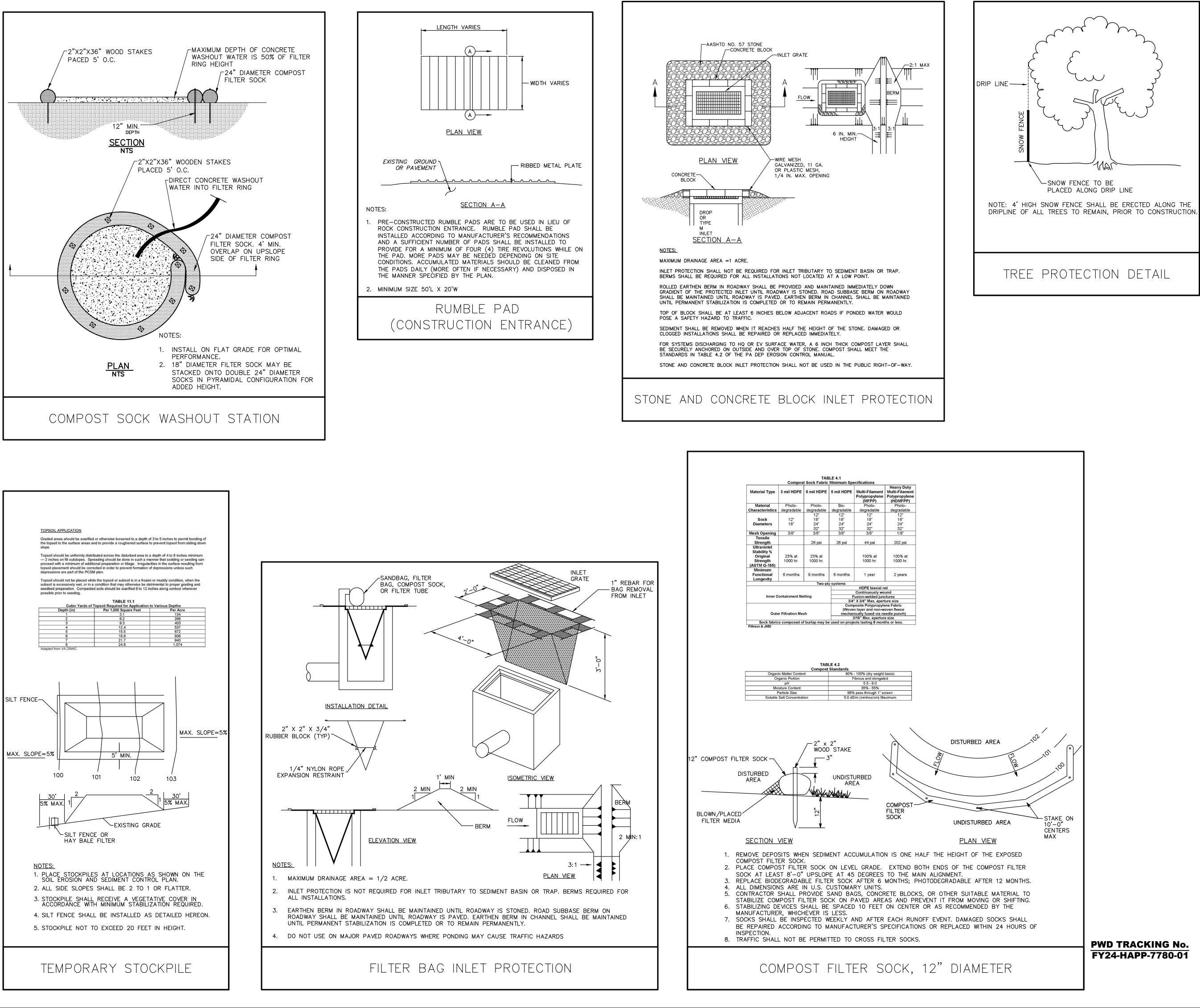


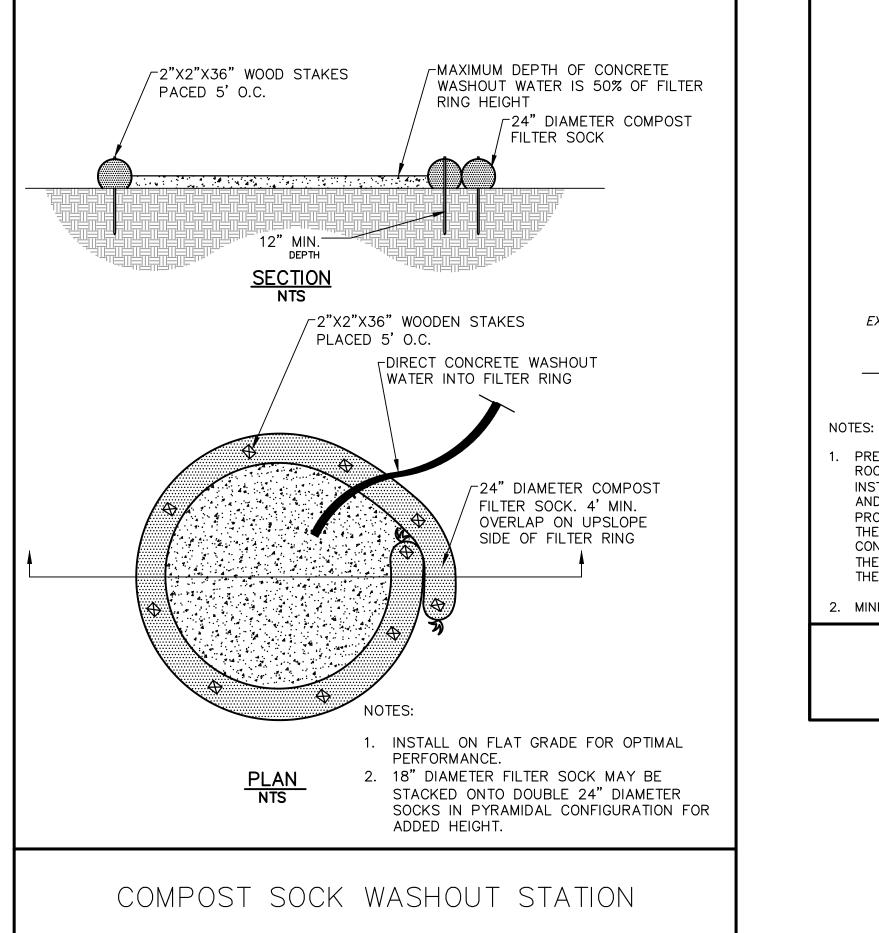
LIMIT OF	DISTURBANC	E (LOD)
	SUMMARY	
ON-SITE	14,552 SF	0.33 ACRES
PUBLIC R.O.W.	1,530 SF	0.04 ACRES
TOTAL	16,082 SF	0.37 ACRES

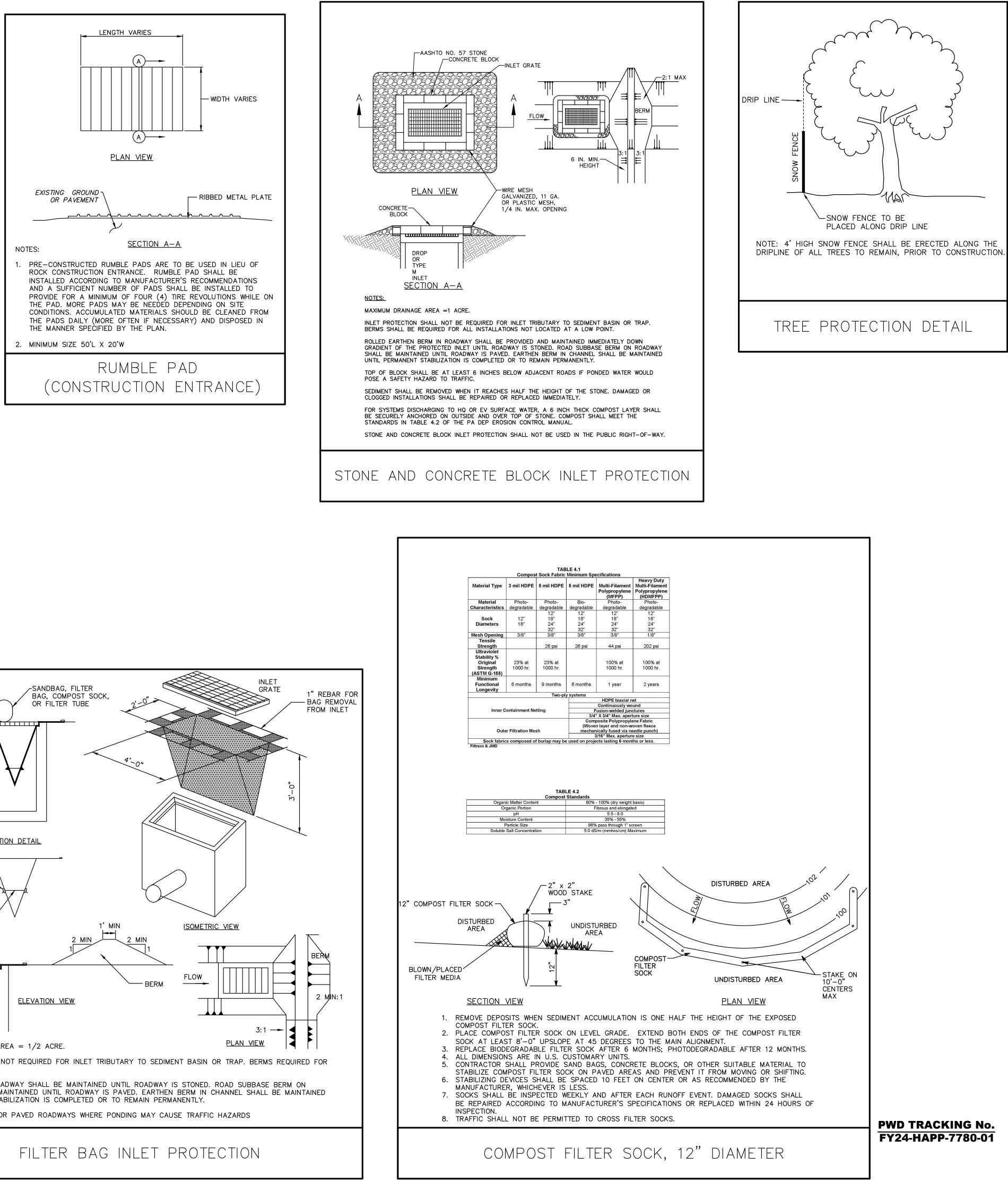


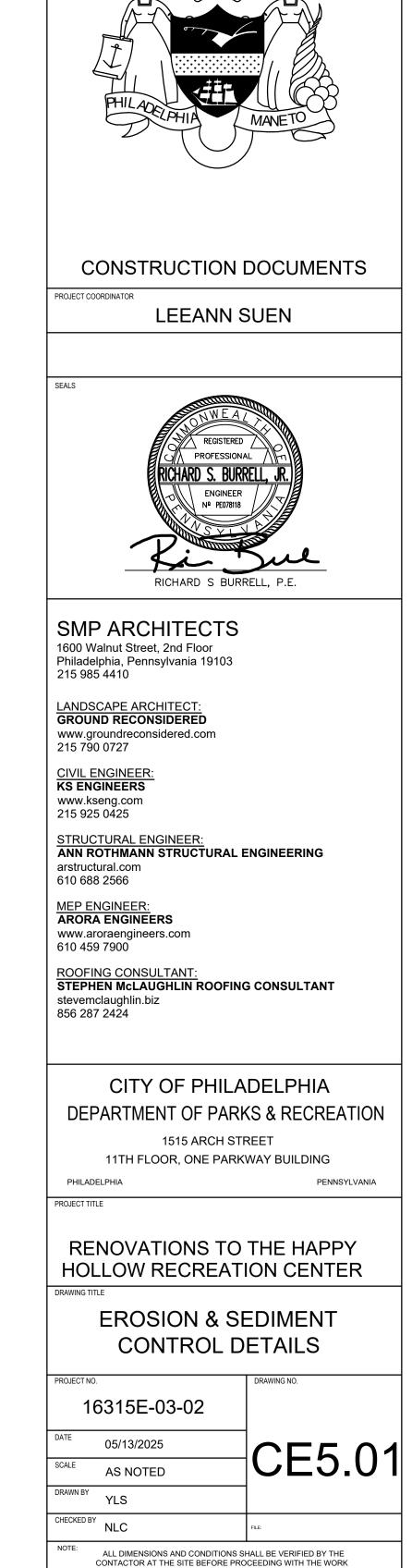
1-800-242-1776

(484) 681-5720









REVISIONS

REVISIONS

DATE

ISSUE

#### STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- 1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 2. INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE.
- PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE FUNCTIONING IN ACCORDANCE WITH THE APPROVED PLANS.
- 4. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS, AND AFTER ALL PRECIPITATION EVENTS.
- 5. THE MAXIMUM HEIGHT FOR STOCKPILES AREAS SHALL BE 20 FEET. THE MAXIMUM SIDE SLOPE FOR STOCKPILE AREAS SHALL NOT EXCEED 2:1.
- 6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON-SITE, A STOCKPILE SHALL BE MAINTAINED ON-SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- 7. FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHOULD BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. SUPPORT STAKES SHALL BE SPACED AT A MAXIMUM OF 8 FEET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FILTER FENCE.
- 8. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.
- 9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED 30. E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMP'S MUST BE EROSION AND SEDIMENT POLLUTION AND NOTIFY PWD AND PA DEP.
- 11. UNTIL THE SITE IS STABILIZED, ALL E&S BMP'S SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMP'S PRIOR TO ANY ANTICIPATED STORM EVENT, AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.
- 12. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PWD SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PWD MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED. THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY PWD AND THE PA DEP PRIOR TO IMPLEMENTATION.
- 15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
- 16. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING UNTIL THE E&S BMP'S SPECIFIED BY THE BMP'S SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- 17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS
- 18. A LOG SHOWING DATES THAT E&S BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO PWD AT THE TIME OF INSPECTION.
- 19. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN THE FOLLOWING MANNER: REMOVAL AND DISPOSAL TO BE AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES -- SIX TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF TWO INCHES OF TOPSOIL.

- 21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS.
- 23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE 5. SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15. VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS TEMPORARY MULCHING OF THIS PLAN.
- MULCH PROPOSED LANDSCAPE AREAS OR TOPSOIL STOCKPILES IF EARTHWORK IS 28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB-AREA COMPLETED OUTSIDE OF THE RECOMMENDED PLANTING SEASONS FOR TEMPORARY OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING SEEDING OR DUE TO UNFAVORABLE WEATHER CONDITIONS. NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF THE TOPSOIL WITHIN ONE YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STOCKPILE OR ROUGH GRADING. STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION 3. MULCH WITH SUITABLE FIBROUS GROUND, SHREDDED AGED HARDWOOD, PINE WOOD BARK SPECIFICATIONS.
- 29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP'S APPROVED BY PWD AND PA DEP.
- PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER THE FINAL GRADING IS 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL COMPLETED. THE FOLLOWING SEED SHALL BE PLACED UNLESS OTHERWISE SPECIFIED ON MANAGEMENT PRACTICES. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE THE PLANS OR DIRECTED IN THE FIELD. CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR BURIED UTILITY LOCATIONS. E&S BMP'S SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID THE FOLLOWING SEED MIX SHALL BE USED: REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE A. 40% PENNLAWN FINE FESCUE 3. CONSTRUCTION FENCE TO BE INSTALLED AROUND THE PERIMETER OF THE WORK AREA. ONLY DURING THE GERMINATING SEASON. B. 3% RED TOP
- 32. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS. (WHEN APPLICABLE)
- 33. DURING CONSTRUCTION, THE SELECTED CONTRACTOR IS EXPECTED TO FOLLOW THE PCSMP APPROVED BY PWD (WHERE APPLICABLE). NO CHANGE OR DEVIATION FROM THE APPROVED PCSMP IS PERMITTED WITHOUT PRIOR APPROVAL FROM PWD.
- 34. ALL WORK ASSOCIATED WITH PWD WATER CONVEYANCE AND SEWER INFRASTRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE CITY OF PHILADELPHIA WATER DEPARTMENT "WATER MAIN STANDARD DETAILS AND CORROSION CONTROL SPECIFICATIONS", 1985 EDITION, AND "STANDARD DETAILS AND STANDARD SPECIFICATIONS FOR SEWERS", 1985 EDITION.
- 35. CONTACT PWD WATER TRANSPORT RECORDS (1101 MARKET STREET, 2ND FLOOR, 5. MULCH SEEDED AREAS WITH STRAW OR HAY AT THE RATE OF 3 TONS PER ACRE. PHONE: 215-685-6271) FOR ADDITIONAL APPROVALS AND PERMITS REQUIRED FOR ALL ANCHOR MULCH. COMPLY WITH THE REQUIREMENTS OF SECTION 805 - MULCHING, WATER SERVICES, METERS, AND CONNECTIONS TO THE EXISTING AND/OR PROPOSED PWD PENNDOT PUBLICATION 408. ANCHOR MULCH AS SPECIFIED. FACILITIES.
- 6. MULCHING SHALL BE DONE AT THE MINIMUM RATE OF 3 TONS PER ACRE WITH SALT HAY, 36. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND HAY OR STRAW MULCHES. PLACE MULCH IMMEDIATELY AFTER SEEDING OR WITHIN 48 8. ROUGH GRADE SUBBASE TO REQUIRED DEPTHS. RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE PADEP'S SOLID WASTE HOURS AFTER SEEDING IS COMPLETED. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 AND 287.1 ET SEQ. ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH 9. INSTALL PROPOSED SITE IMPROVEMENTS, INCLUDING PLAY SURFACE, PLAY EQUIPMENT, NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES AT INITIAL RATES MINI PITCH, RAMPS, AND BENCHES. BURIED, DUMPED, OR DISCHARGED AT THE SITE. OR AS DIRECTED.
- GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OF THE PROJECT 37. A DUST CONTROL PERMIT WILL BE REQUIRED WHEN COMPLETELY DEMOLISHING A BUILDING 7. LIQUID MULCH BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES. 10. TOPSOIL AND SEED GRASSED AREAS. INSTALL PLANTS AND TREES. OR STRUCTURE THAT IS MORE THAN THREE (3) STORIES. GREATER THAN FORTY (40) A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH IN 11. SWEEP PAVED AREAS DAILY TO PREVENT TRACKING OF SOIL OFF-SITE. FEET TALL, OR ENCOMPASSES MORE THAN TEN THOUSAND (10,000) SQUARE FEET; VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN COMPLETELY OR PARTIALLY DEMOLISHING ANY BUILDING OR STRUCTURE BY IMPLOSION; APPFARANCE OR ENGAGING IN EARTHWORKS, DEFINED AS "CLEAING, GRUBBING, OR EARTH B. USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT. CLASS E-1 OR E-6. APPLY 31 DISTURBANCE OF ANY LAND EXCESS OF 5,000 SQUARE FEET." GALLONS PER 1,000 SQUARE YARDS ON SLOPES LESS THAN 8 FEET HIGH. ON
  - SITE STABILIZATION METHODS (TEMPORARY & PERMANENT STABILIZATION)
  - 1. STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE
  - 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
  - 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.

#### TEMPORARY SEEDING

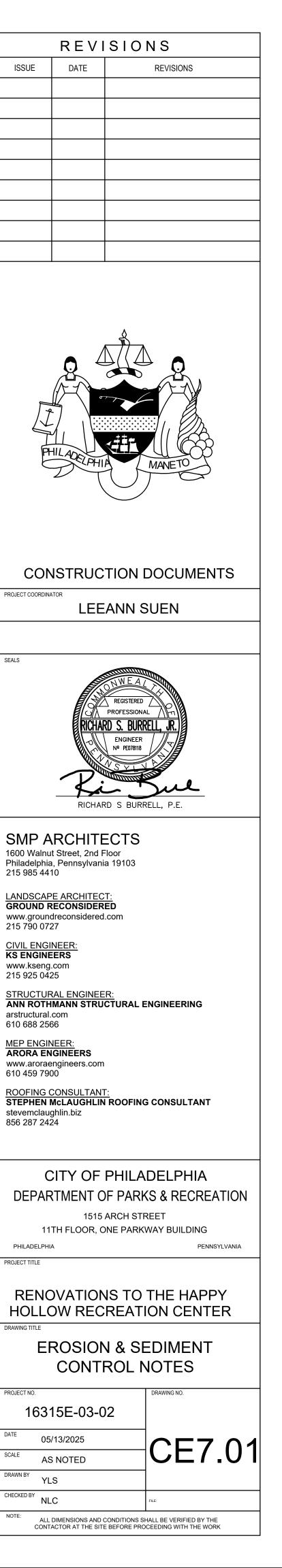
1. THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED:

- A. THE SURFACE OF TOPSOIL STOCKPILES. B. THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
- 2. SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED: A. 40 LBS./ACRE ANNUAL RYE GRASS - COMMON, 100% P.L.S.
- 3. PREPARE AREAS TO BE SEEDED AS FOLLOWS: A. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. APPLY LIME AT A RATE OF 3 TONS PER ACRE AND FERTILIZER AT THE RATE OF 50-50 PER ACRE AND WORK INTO SOIL.
- B. SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- 4. PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.
- OR STRAW, UNIFORMLY AND CONTINUOUSLY TO A LOOSE DEPTH OF 3 INCHES MINIMUM. ANCHOR AS REQUIRED.
- 4. PROPERLY MAINTAIN MULCHED AREAS UNTIL PERMANENT STABILIZATION MEASURES ARE COMPLETE. REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED AS INITIAL OR MODIFIED RATES AS NECESSARY. IF A SLOPE FAILURE OCCURS WHICH REQUIRES REDRESSING, EXCAVATION, OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE MULCH AS NECESSARY.
- PERMANENT SEEDING
- C. 20% CHAMPION PERENNIAL RYE GRASS QUANTITIES ARE OF PURE LIVE SEED (P.L.S.) SPREAD AT A RATE OF 63 LBS. PER ACRE.
- REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY LIME AT A RATE OF 4 TONS PER ACRE. APPLY COMMERCIAL 10-20-20 FERTILIZER AT A RATE OF 930 LBS. PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL.
- 3. SEED ONLY AT THE FOLLOWING TIMES: A. SPRING: MARCH 1 TO APRIL 30
- B. LATE SUMMER/EARLY FALL: AUGUST 15 TO NOVEMBER 15
- 4. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
- SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. CUTBACK ASPHALT. CLASS RC-250. APPLY 31 GALLONS PER 1.000 SQUARE YARDS ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET HIGH OR MORE, USE 58 GALLONS PER 1,000 SQUARE YARDS. NON-ASPHALTIC EMULSION -NATURAL VEGETABLE GUM BLENDED WITH GELLING AND HARDENING AGENTS (TERRA TACK, AR) AS MANUFACTURED BY GRASS GROWERS COMPANY OR EQUAL. APPLY 25 13. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL LBS. PER 1,000 SQUARE YARDS.
- MAINTENANCE PROGRAM
- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION. AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WIL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN

- 2. THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES
- 3. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK. INCLUDING CLEAN OUT. REPAIR. REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
- 4. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF AT AN OFF-SITE LOCATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. SOIL SEDIMENT REMOVED FROM SILT FENCE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE. SILT FENCE INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS A. THE FENCE CONDITION WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM
- EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY. B. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE
- FUNCTIONAL. DEPOSITS WILL BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE FENCE.
- C. UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPLACED IMMEDIATELY WITH ROCK FILTER OUTLETS. D. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO WHEN REPLACING
- FILTER FABRIC FENCE DUE TO WEATHERING. 6. AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.
- 7. OTHER BMP'S A. SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.
- CONSTRUCTION SEQUENCE:
- 1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE THE INSPECTIONS COORDINATOR OF PWD (OFFICE 215-685-6387), MUST BE CALLED TO SCHEDULE A PRECONSTRUCTION MEETING.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE FENCE WITH THE OWNER AND/OR ENGINEER. CONSTRUCTION FENCE LOCATION SHALL BE INSTALLED TO PROTECT THE PUBLIC FROM LAND DISTURBANCE ACTIVITIES AND TO MAINTAIN PEDESTRIAN ACCESS
- 4. INSTALL COMPOST FILTER SOCK DOWNHILL FROM ALL EARTH MOVING ACTIVITIES AND AS SHOWN ON THE PLAN. ALTHOUGH OFF SITE AREAS ARE PAVED, COMPOST FILTER SOCK OR OTHER EROSION CONTROL PRACTICES SHALL BE INSTALLED AROUND THE PERIMETER OF THE WORK AREA AS SHOWN ON THE PLAN.
- 5. INSTALL INLET PROTECTION AS SHOWN ON THE PLAN AND ANY INLETS WITHIN ONE BLOCK OF PROJECT SITE. EXISTING INLETS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- 3. INSTALL CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE DETAIL.
- 7. CLEAR AND GRUB SITE, DEMOLISH EXISTING PAVING, CURBING, AND FENCING AS REQUIRED. SAWCUT PAVED AREAS AS NEEDED TO MINIMIZE EARTH DISTURBANCE. EXCAVATE TRENCHES FOR PROPOSED SEWER CONNECTIONS. DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISCARDED IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- 12. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT INSPECTIONS COORDINATOR OF PWD (OFFICE: 215-685-6387) FOR A FINAL INSPECTION PRIOR TO REMOVAL OF THE E&SC BMPS. AS SOON AS SLOPES, CHANNEL DITCHES AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY TABILIZATION.
- GRADE, THEY MUST BE STABILIZED. CESSATION OF ACTIVITY FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
- 14. REMOVE SOIL EROSION MEASURES AFTER SITE HAS BEEN INSPECTED AND STABILIZED.

#### **GSI STANDARD NOTES:**

- 1. THE APPROVED WORK SHALL BE DONE IN THE PRESENCE OF A PWD INSPECTOR.
- THE CONTRACTOR PERFORMING THIS WORK IS TO NOTIFY PWD'S GREEN STORMWATER OPERATIONS AT LEAST 7 DAYS PRIOR TO STARTING WORK TO SCHEDULE AN INSPECTOR (ATTN: GERALD BRIGHT, 215-300-9079).
- 3. APPROVAL OF THESE PLANS BY THE WATER DEPARTMENT IS STRICTLY LIMITED TO THE PROTECTION OF GREEN STORMWATER INFRASTRUCTURE SHOWN WITHIN THE LIMITS OF THE CITY OF PHILADELPHIA PUBLIC RIGHT OF WAY.
- 4. ANY CHANGE TO, OR DEVIATION FROM THE FINAL APPROVED DESIGN PLANS DURING CONSTRUCTION MUST BE APPROVED BY PWD.
- 5. CONTRACTOR MUST UTILIZE ADEQUATE SHORING METHOD TO PROTECT THE STABILITY OF THE PWD GREEN STORMWATER INFRASTRUCTURE.
- 6. CONTRACTOR MUST COMPLY WITH EROSION AND SEDIMENT CONTROL REQUIREMENTS DURING CONSTRUCTION. SEE PWD REGULATION 5501.3 AND 60.4, PHILA CODE S 13-603 AND 25 PA CODE CHAPTER 102.
- 7. SUFFICIENT EROSION AND SEDIMENTATION CONTROL MEASURE WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AS TO PREVENT SEDIMENTATION OF STORMWATER SYSTEMS. GREEN STORMWATER INFRASTRUCTURE SYSTEMS DETERMINED BY PWD TO BE INADEQUATELY PROTECTED AND THEREBY COMPROMISED WILL BE REPLACED TO THE EXTENT REQUIRED BY PWD (UP TO AND INCLUDING FULL REPLACEMENT) AT NO ADDITIONAL COST TO PWD.
- CONTRACTOR IS REQUIRED TO UNDERTAKE NECESSARY MEASURES TO PREVENT SEDIMENT FROM LEAVING THE WORK SITE, TO PREVENT EROSIVE CONDITIONS AND TO SUPPRESS DUST ON THE SITE AND SURROUNDING AREAS. CONTRACTOR MUST COVER AND SURROUND STOCKPILED WITH EROSION CONTROL MEASURE TO ENSURE SEDIMENT DOES NOT MIGRATE INTO THE PUBLIC ROW OR ENTER THE PUBLIC SEWER IF CONTRACTOR IS HAND DIGGING OR EXCAVATING, CONTRACTOR MUST SWEEP WORK SITE AT THE END OF EACH WORKDAY. THE CITY MAY REQUIRE THE CONTRACTOR/OWNER TO CLEAN CITY-OWNED INLETS AND SYSTEMS AFFECTED BY NONCOMPLIANT OR FAILED E&S CONTROLS.
- 9. CONTRACTOR MUST INSTALL INLET PROTECTION MEASURE AT ALL INLETS ADJACENT TO OR WITHIN THE WORK AREA INLET PROTECTION MEASURES MUST BE INSPECTED DAILY TO ENSURE PROPER PLACEMENT AND MAINTAINED, POSITIONED OR REPLACED AS NEEDED TO ENSURE PROPER FUNCTION AND TO PREVENT FLOODING REFER TO PWD GUIDANCE FOR APPROPRIATE MATERIALS AND PROTECTION METHODS FOR OPEN-MOUTH INLETS, HIGHWAY GRATE INLETS, TRENCH DRAINS AND CURB-CUT INLETS.
- 10. THERE WILL NOT BE A CONFLICT BETWEEN THE EXISTING GSI AND THE PROPOSED DESIGN SHOWN ON THE PLAN.



### TREE REPLACEMENT REQUIREMENTS

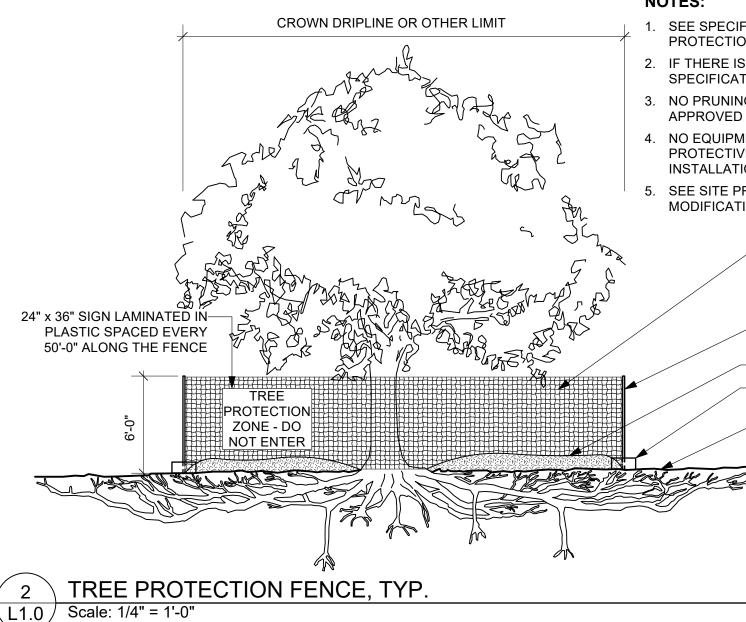
				-
§14-705(1)(g)		TREE REPLACEMENT REQUIREMENTS	QTY.	CALIPER (IN.)
1		EXISTING NON-HERITAGE TREES TO BE REMOVED	-	-
	2	EXISTING TREES TO BE REMOVED - NOT INCLUDED, SEE NOTES	7	99
	3	EXISTING HERITAGE TREES TO BE REMOVED	-	-
	4	TOTAL TREE REPLACEMENT REQUIREMENT (#1 + #3)	-	-
	5	TOTAL PROPOSED REPLACEMENT TREES (SEE L5.0)	10	25
	6	CAL. INCHES REMAINING (PAY FEE IN-LIEU) (#4 - #5)	-	-

#### TREE REPLACEMENT NOTES

- 1. 7 EXISTING TREES TO BE REMOVED ARE DEEMED BY ARBORIST TO BE DEAD, DAMAGED, DISEASED, AN INVASIVE SPECIES, OR A THREAT TO LIFE OR PROPERTY IN ACCORDANCE WITH 14-705 (1)(g)(.2) AND THEREFORE EXCLUDED FROM TREE REPLACEMENT REQUIREMENTS.
- 2. IN ACCORDANCE WITH PHILADELPHIA ZONING ORDINANCE SECTION 14-705 (1)(g): EACH REPLACEMENT TREE SHALL BE MINIMUM 2.5" DBH AT PLANTING. SEE TREE SCHEDULE ON L002 FOR REQUIRED PLANTING SIZES
- 3. IN ACCORDANCE WITH PHILADELPHIA ZONING ORDINANCE SECTION 14-705(1)(g)(.3) ANY TREES REQUIRED BY § 14-705(1)(d), § 14-705(1)(e), or § 14-803(5) SHALL BE COUNTED TOWARDS THE TOTAL REPLACEMENT REQUIREMENTS.
- 4. PER PHILADELPHIA ZONING ORDINANCE SECTION 14-705 (c) (.9), FOR EACH DBH INCH OF TREE WAIVED FROM THE TREE REPLACEMENT REQUIREMENTS, AN IN-LIEU FEE IS REQUIRED AS FOLLOWS: UP TO 75 DBH INCHES PER ACRE = \$400 PER INCH
- GREATER THAN 75 AND LESS THAN 250 DBH INCHES PER ACRE = \$200 PER INCH
- GREATER THAN 250 DBH INCHES PER ACRE = \$50 PER INCH 5. MULTI-STEM TREES NOTED AT 6'-8' HT. IN PROPOSED PLANTING SCHEDULE (REFER TO L5.0) ARE ASSUMED TO BE THE EQUIVALENT OF 2.5" CAL. FOR REPLACEMENT VALUE.

#### ON-SITE LANDSCAPE AND TREE REQUIREMENTS

§14-705(1)(d)		LANDSCAPE BUFFERING REQUIREMENTS (8-FT WIDE, 1 TREE, 3 SHRUBS/ 20 LF)	QTY.	UNIT
	1	BUFFER ZONE	112	LF
	2	TOTAL BUFFERING SHRUBS (#1 / 20 x 3)	17	-
:	3	TOTAL BUFFERING TREES (#1 / 20)	6	-
§14-705(1)(e)		YARD TREE REQUIREMENTS (1 TREE/1,600SF. OPEN SPACE)	QTY.	SF
	4	PROJECT AREA	23,712	SF
:	5	EXISTING STRUCTURE FOOTPRINT TO REMAIN	4,069	SF
	6	OPEN SPACE AREA (#4 - #5)	19,463	SF
	7	TOTAL YARD TREES (#6 / 1600)	12	-
	8	<b>TOTAL TREES</b> (#3 + #7)	18	-
	9	TOTAL PRESERVATION CREDITS	28	-
1	10	TOTAL TREES REQUIRED (#9 - #10)	0	-



#### **DEMOLITION NOTES**

- 1. REMOVE ALL PAVEMENT AND CONSTRUCTION DEBRIS AS INDICATED ON PLAN. PAVING BASE MATERIALS MAY REMAIN IF CONSISTENT WITH SPECIFIED AGGREGATE BASE MATERIAL
- 2. DEMOLISH FOOTINGS AND FOUNDATIONS OF ALL SITE ELEMENTS TO BE REMOVED.
- 3. USE CARE WHEN REMOVING TREES WITHIN CANOPIES AND
- FLUSH WITH GRADE. 4. REFER TO GRADING PLAN TO CONFIRM EXTENT OF MILL AND OVERLAY

#### **PROTECTION NOTES**

1. USE CARE WHEN REMOVING STRUCTURES THAT ABUT EXISTING STRUCTURES TO AVOID DAMAGE TO EXISTING STRUCTURES TO REMAIN.

## 814-705(1)(h) PRESERVATION CREDITS

		6	TOTAL PRESERVATION CREDIT
		5	TOTAL PRESERVATION CREDIT
		4	TREES TO BE PRESERVED <5" D
		3	TREES TO BE PRESERVED 5" - 8
		2	TREES TO BE PRESERVED >8" -
		1	TREES TO BE PRESERVED >12"
	§14-705(1)(	ĥ)	PRESERVATION CREDITS

### **TREE PRESERVATION NOTES**

1. PER PHILADELPHIA ZONING ORDINANCE SECTION 14-705 (1): TREES TO BE PRESERVED OVER 12" DBH RECEIVE 12 CREDITS

- TREES TO BE PRESERVED 5" TO 8" DBH RECEIVE 5 CREDITS. TREES TO BE PRESERVED UNDER 5" DBH RECEIVE 0 CREDITS.
- SPECIES AND TREES IN POOR HEALTH.
- REPLACEMENT TREE SHALL BE MINIMUM 2.5" DBH AT PLANTING.
- THAN THOSE UNDER SECTION 14-705(1)(g).
- LUBAR, BCMA, DATED 07/26/2023.

#### NOTES:

- 1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
- 2. IF THERE IS NO EXISTING IRRIGATION, SEE
- SPECIFICATIONS FOR WATERING REQUIREMENTS. 3. NO PRUNING SHALL BE PERFORMED EXCEPT BY
- APPROVED ARBORIST. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

TREE PROTECTION FENCE: CHAIN LINK FENCE, 6' HT, STEEL POSTS INSTALLED AT 10'-0" O.C. DO NOT DRIVE POSTS IN GROUND

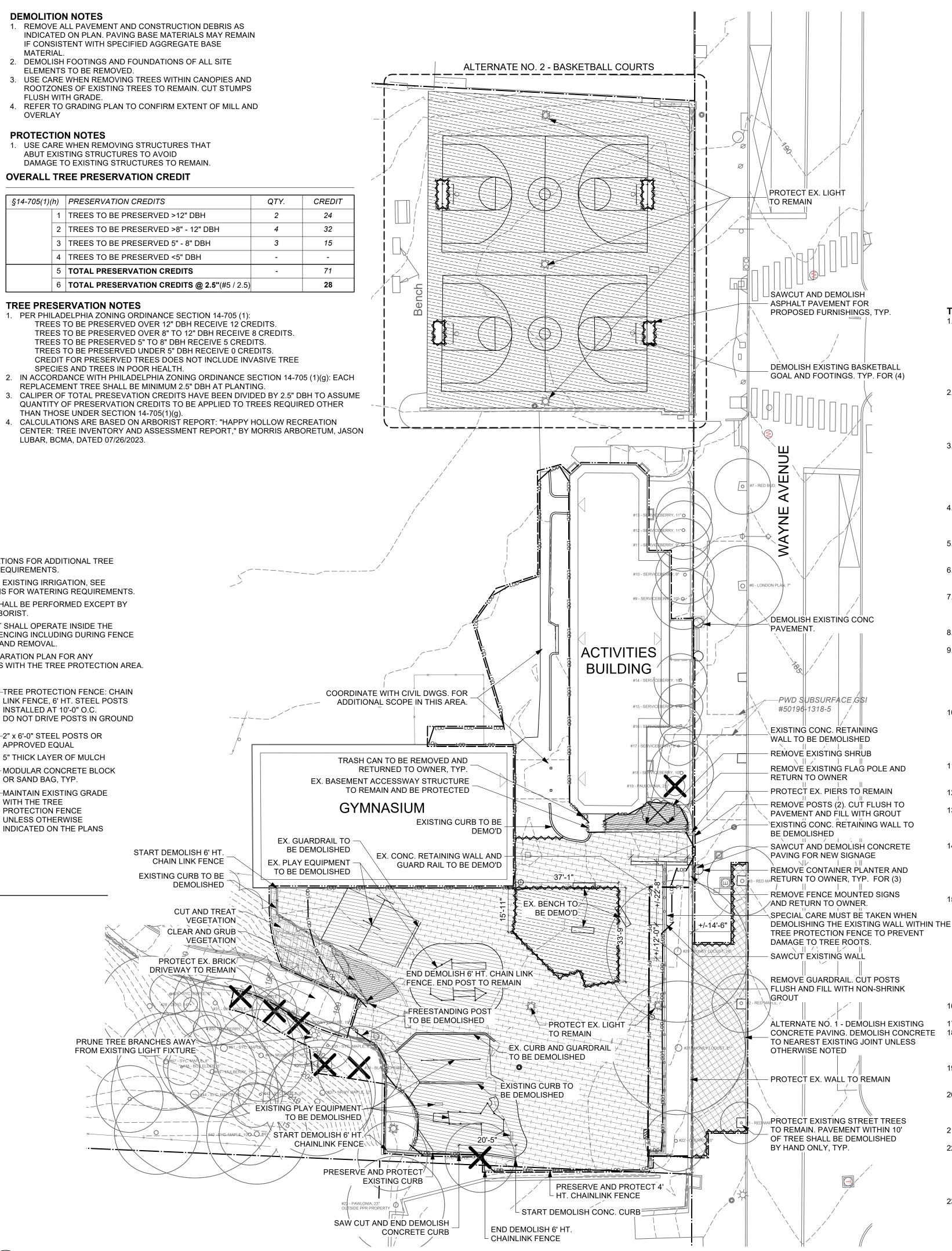
-2" x 6'-0" STEEL POSTS OR APPROVED EQUAL

**5" THICK LAYER OF MULCH** - MODULAR CONCRETE BLOCK

OR SAND BAG, TYP. -MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE

UNLESS OTHERWISE INDICATED ON THE PLANS

∖ L1.0 / Scale: 1" = 20'-0'



DEMOLITION AND PROTECTION PLAN

#### DEMOLITION LEGEND

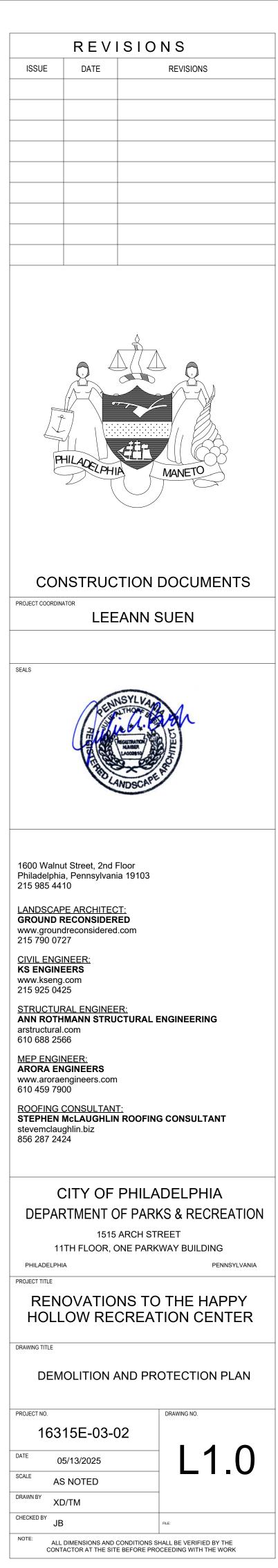
	PROPERTY LINE
	PROJECT LIMIT LINE
	LIMIT OF DISTURBANCE
PF	TREE PROTECTION FENCE, REFER TO 4/L6.5
~~~~~	SAWCUT EXISTING PAVEMENT
	CONCRETE PAVEMENT TO BE REMOVED
	SAFETY SURFACE TO BE REMOVED
	ASPHALT PAVING TO BE REMOVED
	CLEAR AND GRUB VEGETATION
	MILL ASPHALT PAVING
	CUT AND TREAT VEGETATON
$\mathbf{X}$	TREE TO BE REMOVED

**TREE PROTECTION NOTES** 

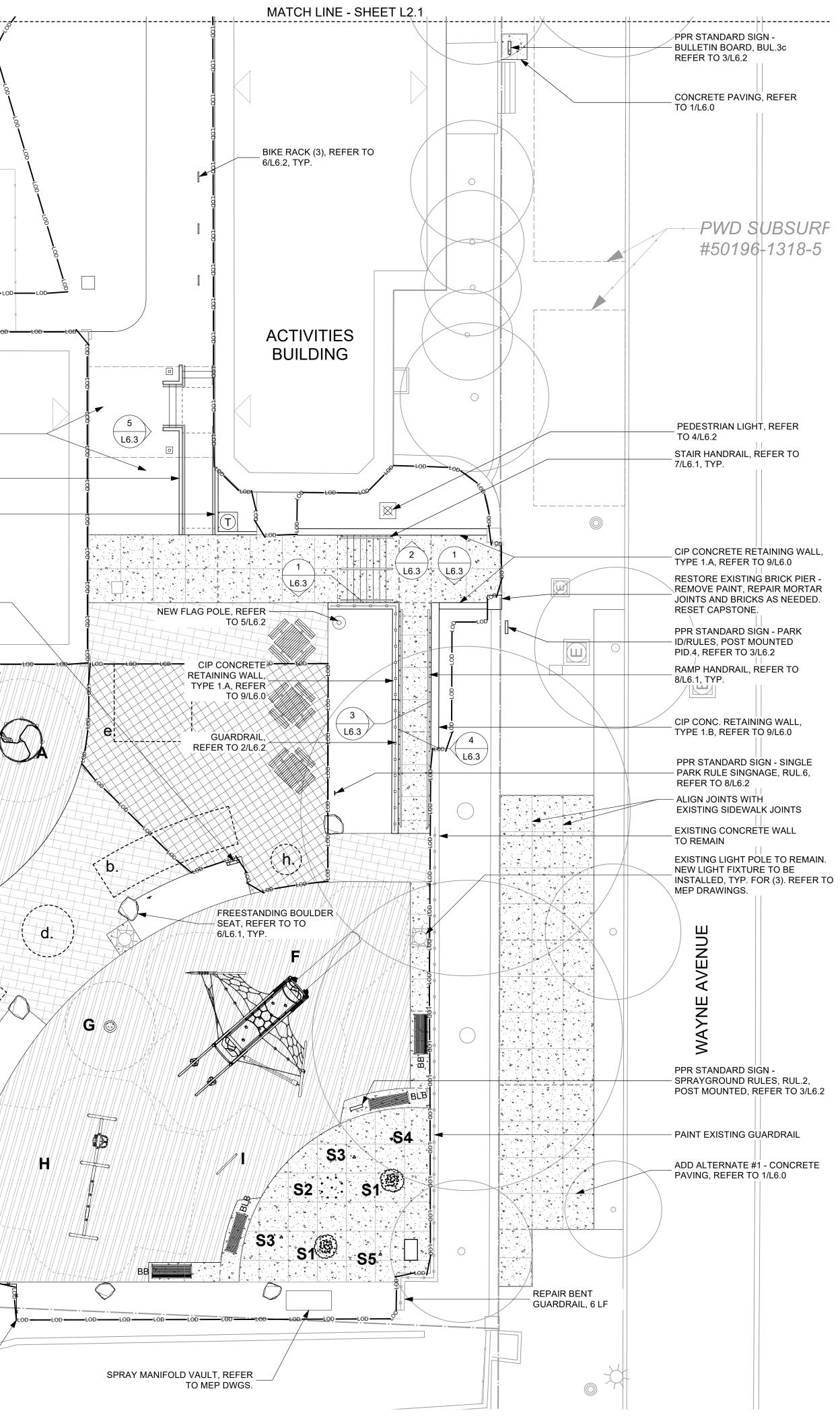
1. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS OF EXISTING TREES AND PLANTINGS INDICATED TO REMAIN WITH DIGITAL PHOTOS AND/OR VIDEO, WHICH ESTABLISHES PRECONSTRUCTION CONDITIONS THAT MIGHT BE MISCONTRUED AS DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. INCLUDE PLANS AND NOTATIONS TO INDICATE SPECIFIC WOUNDS AND DAMAGE CONDITIONS OF EACH TREE OR OTHER PLANTS DESIGNATED TO RFMAIN

- 2. LOCATE AND CLEARLY IDENTIFY TREES, SHRUBS AND OTHER VEGETATION TO REMAIN. FLAG EACH TREE TO REMAIN AT A HEIGHT OF 6-FEET +/- WITH DISTINCTIVE, HIGHLY VISIBLE COLOR FLAGGING TAPE. SUPERVISING CONTRACTOR AND/OR SITE FOREMAN IS RESPONSIBLE TO INSTRUCT AND MONITOR ALL LABORERS AND WORKERS ABOUT THE TREE PROTECTION REQUIREMENTS.
- 3. DEPARTMENT OF PARKS & RECREATION ARBORIST SHALL BE CONSULTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. CONTRACTORS MUST COORDINATE ALL CONSTRUCTION ACTIVITY AFFECTING EXISTING TREES AND PLANTINGS INDICATED TO REMAIN WITH THE ARBORIST. ALL CONTRACTORS SHALL COMPLY WITH THE PROTECTION REQUIREMENTS SET FORTH BY THE CERTIFIED ARBORIST.
- . BRING ANY UNFORESEEN SITE CONDITIONS, SUCH AS STRUCTURAL ROOTS, THAT WILL IMPACT NEW CONSTRUCTION TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. DO NOT PROCEED WITH WORK WITHOUT WRITTEN AUTHORIZATION.
- 5. PROTECTION FENCING MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH ANY DEMOLITION OR CONSTRUCTION WORK.
- 6. WORK WITHIN PROTECTION FENCING, UNLESS NOTED HEREIN, MUST BE APPROVED BY AND SUPERVISED BY OWNER'S REPRESENTATIVE.
- 7. WHEN WORKING WITHIN TREE PROTECTION ZONES, USE CARE TO AVOID DAMAGE TO TREE TRUNKS AND ROOTS SUCH AS, BUT NOT LIMITED TO, IMPACT WOUNDS CAUSED BY EQUIPMENT. CONSULT A CERTIFIED ARBORIST IF DAMAGE TO A PROTECTED TREE OCCURS.
- 8. LIMIT EXTENT OF EXCAVATION WITHIN PROTECTION ZONES TO THE GREATEST EXTENT FEASIBLE. 9. WHERE EXCAVATION IS REQUIRED IN PROTECTION ZONES TO INSTALL UTILITIES, HAND EXCAVATE AND/OR AIR-SPADE AROUND TREE ROOTS OR TUNNEL UNDER ROOTS BY DRILLING, AUGER BORING, OR PIPE JACKING. DO NOT CUT MAIN LATERIAL TREE ROOTS OR TAPROOTS. CUTTING OF SMALLER ROOTS BY A CERTIFIED ARBORIST THAT INTERFERE WITH INSTALLATION OF UTILITIES IS PERMITTED.
- 10. TRENCHING OR EXCAVATION WITHIN THE DRIPLINE OF EXISTING TREES SHALL BE COMPLETED WITH EXTREME CARE AND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST. USE HAND TOOLS ONLY. ARBORIST SHALL BE PRESENT DURING ALL WORK DONE WITHIN DRIPLINE OF EXISTING TREES. NOTIFY OWNER PRIOR TO COMMENCEMENT OF WORK WITHIN DRIPLINE OF TREES.
- 11. WHERE EXSITING ROOTS OF TREES TO REMAIN ARE ENCOUNTERED WITHIN EXCAVATION AREAS, DO NOT ALLOW EXPOSED ROOTS TO DRY OUT PRIOR TO PLACING PERMANENT BACKFILL.
- 12. EXERCISE EXTREME CAUTION IN REMOVING PAVEMENT WITHIN DRIPLINE OF EXISTING TREES TO REMAIN. 13. MAINTAIN EXISTING GRADES WITHIN THE PROTECTION ZONE TO THE
- GREATEST EXTENT FEASIBLE. DO NOT LOWER OR RAISE GRADES MORE THAN 2-INCHES WITHIN PROTECTION ZONE. HAND-GRADE TO REQUIRED FINISHED ELEVATIONS WITH PROTECTION ZONES. 14. WHEN DIRECTED BY CERTIFIED ARBORIST, AERATE SURFACE SOIL COMPACTED DURING CONSTRUCTION. AERATE TO EXTENT AS
- DIRECTED BY ARBORIST AND NO CLOSER THAN 36-INCHES TO TREE TRUNK. DRILL 2-INCH DIAMETER HOLES A MINIMUM OF 12-INCHES DEEP AT 24-INCHES ON CENTER. BACKFILL HOLES WITH APPROVED COMPOST. 15. REPLACE TREES, SHRUBS AND OTHER VEGETATION INDICATED TO
- REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY THE OWNER'S REPRESENTATIVE WHEN GREATER THAN OR EQUAL TO 25% OF THE PLANT IS DEAD OR IN AN UNHEALTHY CONDITION AND OWNER'S REPRESENTATIVE DETERMINES ARE INCAPABLE OF RESTORING TO NORMAL GROWTH. PROVIDE NEW TREES OF THE SAME SIZE AND APPROVED SPECIES FOR EACH TREE THAT MEASURES 6-INCHES IN CALIPER SIZE OR SMALLER. WHERE THE TREE TO BE REPLACED EXCEEDS 6-INCHES IN CALIPER, PROVIDE TWO (2) 8-INCH CALIPER TREES OF AN APPROVED SPECIES AT A LOCATION DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 16. PROTECT ROOT SYSTEMS FROM PONDING, ERODING, OR EXCESSIVE WETTING CAUSED BY DEWATERING OPERATIONS. 17. DO NOT PARK VEHICLES OR EQUIPMENT WITH PROTECTION ZONES.
- 18. CERTIFIED ARBORIST MAY REQUIRE CROWN PRUNING TO COMPENSATE FOR ROOT LOSS CAUSED BY DAMAGING OR CUTTING OF THE ROOT SYSTEM. PROVIDE SUBSEQUENT MAINTENANCE DURING CONTRACT PERIOD AS RECOMMENDED BY ARBORIST. 19. OWNER'S REPRESENTATIVE MAY REQUIRE ADDITIONAL
- PROTECTION FENCING OR RELOCATION OF FENCING AS WORK PROGRESSES. 20. AVOID DAMAGING EXISTING TREES. DAMAGE INCLUDES BUT IS NOT LIMITED TO: CUTTING, BREAKING, SKINNING OR COMPACTING OF
- ROOTS, SKINNING AND BRUISING OF BARK AND BREAKING OF BRANCHES AND LIMBS. 21. DO NOT ATTACH SIGNS TO OR AROUND TREES OR PLANTS TO
- REMAIN UNLESS OTHERWISE INDICATED 22. DO NOT ALLOW ROOTS TO DRY OUT BEFORE PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER AND/OR WRAP WITH MOIST BURLAP. WATER AND MAINTAIN IN MOIST CONDITION. TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND/OR COVERED WITH SOIL.
- 23. PROTECTION-ZONE SIGNAGE: "TREE PROTECTION AREA DO NOT ENTER" 3-INCH HIGH MINIMUM LETTER SIZE, RED CHARACTERS ON WHITE BACKGROUND. INSTALL ALONG TOP OF PROTECTION FENCING SPACED EVERY 50-FEET AND/OR EACH SIDE OF PROTECTION ZONE.





PLAYGROU	IND SCHEDULE	- AGES 2-5 PLAY STRUCTURES	5	PAVEMENT MARKING NOTES	
KEY	QUANTITY	PRODUCT NAME	MANUFACTURER	1. PROVIDE THERMOPLASTIC PAVEMENT     MARKINGS. REFER TO SPECIFICATION 321723     PAVEMENT MARKING	No. 1
А	1	INCLUSIVE ORBIT	BURKE	a. SHAPE TRAIL	
В	1	ORB ROCKER	BURKE	<ul> <li>b. GEOMETRIC HOPSCOTCH</li> <li>c. JUMPING RULER</li> <li>d. HAPPY HOLLOW INSIGNIA</li> </ul>	Lop
С	1	SWING 5" ARCH W/ (2) BUCKET SEATS	BURKE	e. BIRD FOUR SQUARE f. OAK LEAF	
D	1	CUSTOM PLAY PANEL	BURKE	g. SASSAFRAS LEAF h. MAPLE LEAF	
E	1	LEVEL X LAUNCH	BURKE	i. MIRROR ME GAME	
			DONNE		×
PLAYGROU		- AGES 5-12 PLAY STRUCTURE	ES		×
KEY	QUANTITY	PRODUCT NAME	MANUFACTURER		*
F	1	LEVEL X EXTREME NU-3285	BURKE		
G	1	KIDFORCE SPINNER	BURKE		
н	1	5" ARCH W/ (2) BELT SEATS, (1) 'FREEDOM' ACCESSIBLE SEAT (AGES 2-12)	BURKE		
I	1	CUSTOM PLAY PANEL	BURKE		
SPRAYGRO	OUND SCHEDUL				
KEY	QUANTITY	PRODUCT NAME	MANUFACTURER		COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL SCOPE IN THIS AREA AND —
S1	2	FS ANETH BLOOM 1	WATERPLAY		BEHIND ACTIVITIES BUILDING
	1	GS GROUP VOLCANO	WATERPLAY	GYMNASIUM	CIP CONCRETE RETAINING
	2	GS SOLO SPURT	WATERPLAY	-	WALL, TYPE 2, REFER TO 10/L6.0, TYP. NEW CONCRETE CURB, —
	1	GS SPLIT SPURT	WATERPLAY	_	REFER TO 8/L6.0
S5	1	GS MISTER MISTER	WATERPLAY	_	
		* *			PPR STANDARD SIGN - PLAYGROUND ID/RULES, POST MOUNTED PLY.1, REFER TO 3/L6.2
	6' H	ER SEATWALL, REFER TO 5/L6.1 T. CHAIN LINK FENCE, LACK VINYL COATED, REFER TO 1/L6.2			
0			ATTACH LAS	ST PANEL	
			FABRIC TO EX. TO		
				EXISTING CONCRETE CURB TO REMAIN	
				FENCE,	REFER TO 8/L6.0 RT NEW 6' HT CHAIN LINK GALVANIZED TO MATCH (ISTING, REFER TO 1/L6.2



## MATERIALS LEGEND

	PROPERTY LINE
	LIMIT OF DISTURBANCE
<u></u>	CHAIN LINK FENCE, AS NOTED
	ASPHALT PAVING, REFER TO 3/L6.0
	OVERLAY EXISTING ASPHALT PAVING, REFER TO 2/L6.0
ран (р. 1997) 1977 — Гран (р. 1977) 1977 —	CONCRETE PAVING, REFER TO 1/L6.0
	POURED -IN-PLACE RUBBERIZED SAFETY SURFACE, REFER TO 4/L6.0, 5/L6.0, 6/L6.0 & 7/L6.0

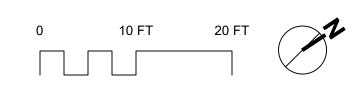
#### FURNISHINGS SCHEDULE SYMBOL DESCRIPTION DETAIL REFER TO BACKED BENCH 3/L6.1 SIM TO BACKLESS BENCH 3/L6.1 **REFER TO** PEDESTAL TABLE 1/L6.1 REFER TO $\bigcirc$ TRASH RECEPTACLE 4/L6.1 REFER TO BIKE RACK 11 6/L6.2

#### NOTES

- 1. ALL PAVEMENT MARKINGS TO BE
- THERMOPLASTIC 2. PLANTING BEDS TO RECEIVE 12" MIN. NEW
- PLANTING SOIL.
- 3. PROVIDE EXPANSION JOINTS BETWEEN EX. STRUCTURES AND PAVEMENTS TO REMAIN AND NEW CURBS, WALLS AND PAVEMENTS

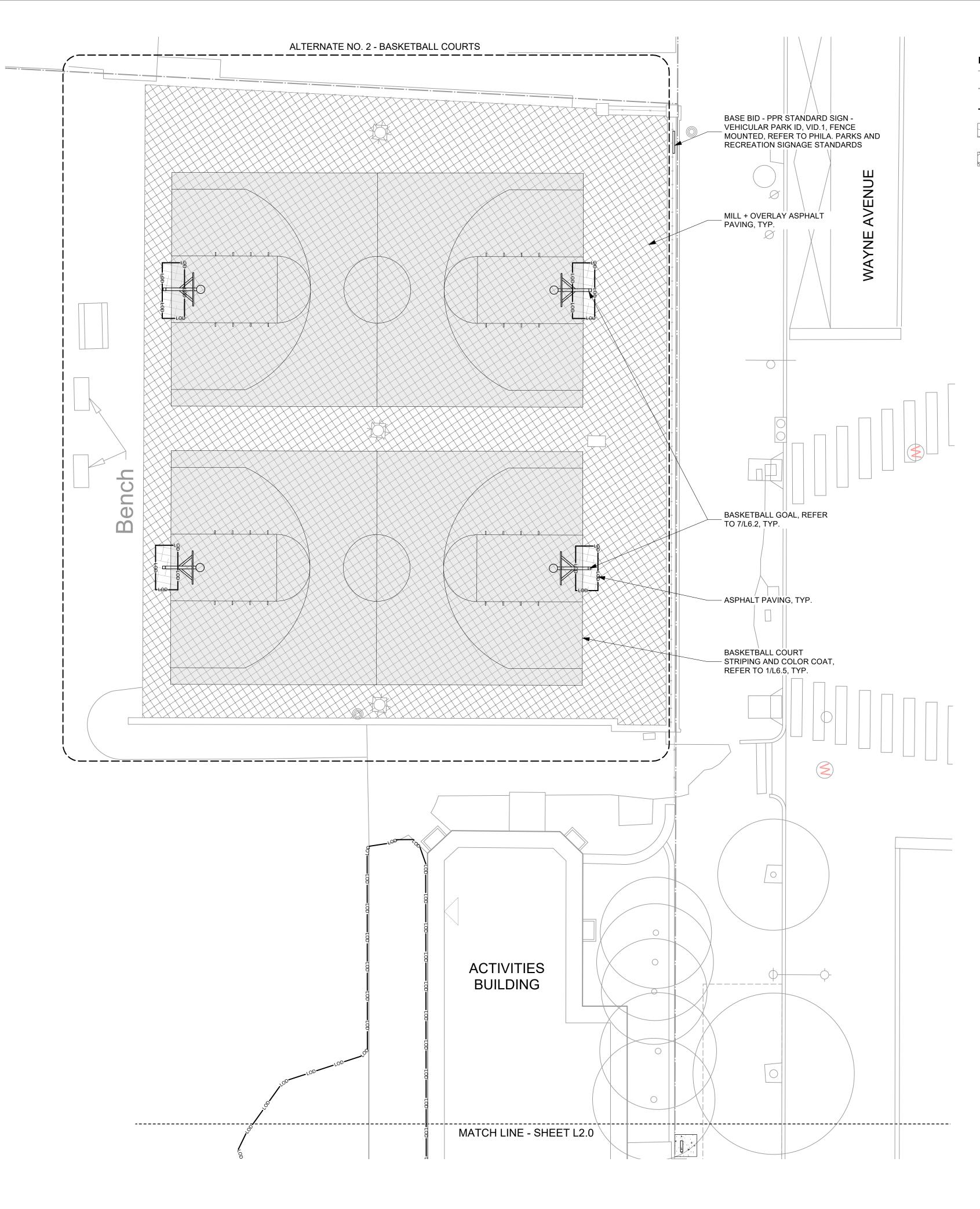
#### **GENERAL NOTES**

- DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL INVERTS, DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- 3. DRAWINGS FOR DESIGN INTENT ONLY. FIELD ADJUSTMENTS MAY BE REQUIRED WITH WRITTEN AUTHORIZATION BY OWNER. THE CONTRACTOR SHALL NOTFIY THE LANDSCAPE ARHITECT OF
- UNFORESEEN CONDITIONS THAT ARE UNCOVERED OR EXPOSED DURING THE WORK. 5. FIELD CHANGES REQUIRE OWNER, OWNER REPRESENTATIVE AND
- DESIGN PROFESSIONAL REVIEW. WRITTEN CONFIRMATION IS REQUIRE TO PROCEED WITH FIELD CHANGES. 6. THE CONTRACTOR SHALL HAVE ALL REQUIRED SUBMITTAL
- APPROVALS PRIOR TO BEGINNING THE WORK OR ORDERING MATERIALS.
- 7. THE CONTRACTOR SHALL PROVIDE THE LAYOUT, LINE AND GRADE UNLESS OTHERWISE NOTED. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY,
- PROCEDURES, MEANS AND METHODS, SEQUENCING, SCHEDULE AND COORDINATION FOR WORK SHOWN IN THE DOCUMENTS. 9. MAINTAIN FIRE DEPARTMENT ACCESS TO ALL FIRE DEPARTMENT CONNECTIONS AND HYDRANTS AT ALL TIMES.
- 10. PROVIDE AND MAINTAIN PROTECTION FOR PEDESTRIAN AND VEHICULAR TRAFFIC.
- 11. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE CLEARING OR DEMOLITION ACTIVITIES. SEE EROSION AND SEDIMENT CONTROL PLANS.
- 12. DO NOT DRIVE OR PARK, STORE MATERIAL OR DEBRIS ON THE SITE EXCEPT IN AREAS APPROVED BY OWNER. STAGING AREAS SHALL BE APPROVED BY OWNER. DO NOT STAGE MATERIALS IN AREAS OTHER THAN THOSE THAT ARE PREVIOUSLY DESIGNATED BY THE OWNER.
- 13. DISPOSE OF OR RECYCLE ALL DEMOLITION MATERIALS IN A PERMITTED, REGULATED FACILITY IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATION.
- 14. REMOVE EXISTING SOIL TO DEPTHS REQUIRED FOR NEW WORK INCLUDING FULL DEPTH REPLACEMENT OF PLANTING IN NEW BEDS. 15. PRESERVE AND PROTECT ALL EXISTING FEATURES TO REMAIN: STRUCTURES, LIGHTING, SURFACE MATERIALS, ABOVE AND BELOW GRADE UTILITIES, FOOTING AND VEGETATION WITHIN AND ADJACENT TO CONSTRUCTION AREA DURING ALL PHASES OF
- DEMOLITION AND CONSTRUCTION. 16. REMOVE AND SALVAGE SITE FURNITURE AS INDICATED. PROTECT SITE FURNITURE AGAINST DAMAGE AND TRANSPORT TO LOCATION AS DIRECTED BY OWNER.
- 17. MEET ALL EXISTING GRADES AT ALL EDGES OF PROJECT WITHIN GRADING REQUIREMENTS.
- 18. NOTIFY OWNER ONE WEEK PRIOR TO REMOVING EXISTING PLANTS FROM PLANT BEDS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT TO ANY SIDEWALK, LAWN, TREES, PAVING, AND OTHER IMPROVEMENTS DISTURBED OR DAMAGED BY THE CONSTRUCTION OR DEMOLITION ACTIVITIES PROPOSED HEREIN.
- 20. PROFESSIONAL INSPECTION AND ACCEPTANCE OF CONSTRUCTION FOR CONFORMANCE TO THE APPLICABLE STANDARDS AND CODES IS THE RESPONSIBILITY OF THE OWNER. SITE OBSERVATION OF THE STRUCTURAL OR GEOTECHNICAL ASPECTS OF THE PROJECT IS TO BE DONE UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. THE OWNER OR THE OWNER'S CONSTRUCTION REPRESENTATIVE RESERVES THE RIGHT TO INSPECT ANY PORTION OF THE WORK AND REQUEST CORRECTION TO THE OWNER'S SATISFACTION FOR ALL WORK NOT COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. INSPECTION OR SITE OBSERVATION OF WORK BY THE OWNER OR OWNER REPRESENTATIVE DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF CONFORMING TO THE DOCUMENTS FOR ALL CONSTRUCTION.

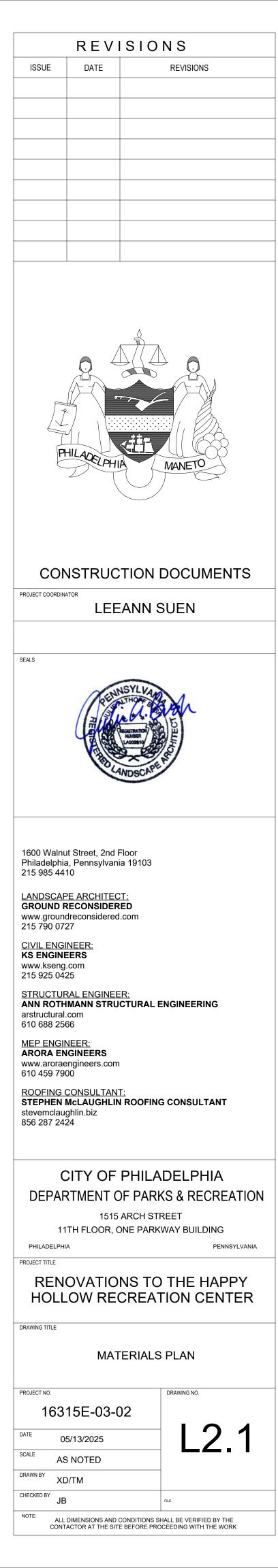




ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

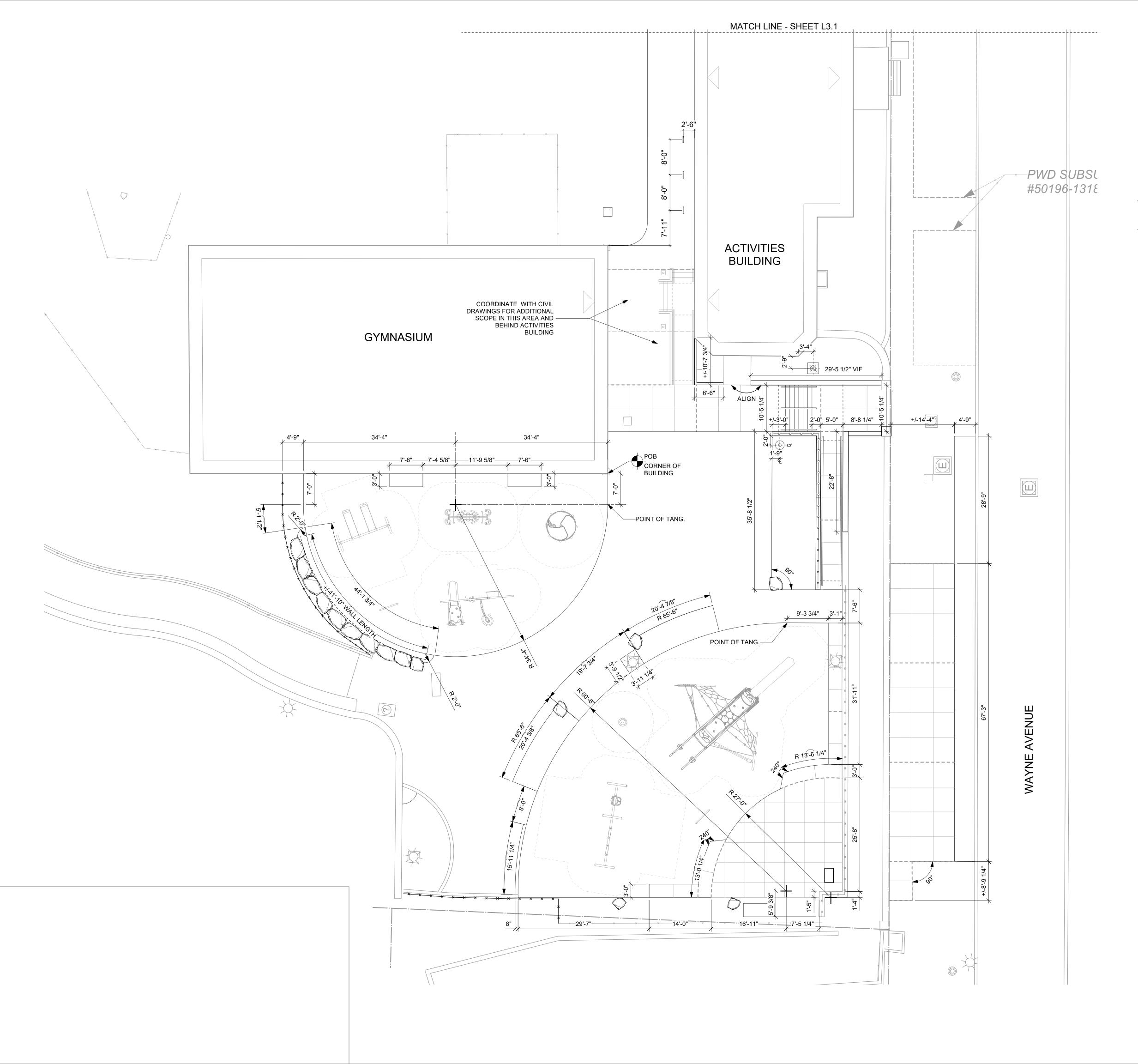


## MATERIALS LEGEND ------ PROPERTY LINE ASPHALT PAVING, REFER TO 3/L6.0 OVERLAY MILLED ASPHALT PAVING, REFER TO 2/L6.0

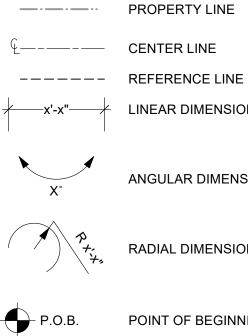


0 10 FT 20 FT





#### LAYOUT LEGEND



← x'-x" ↓ LINEAR DIMENSION ANGULAR DIMENSION RADIAL DIMENSION POINT OF BEGINNING

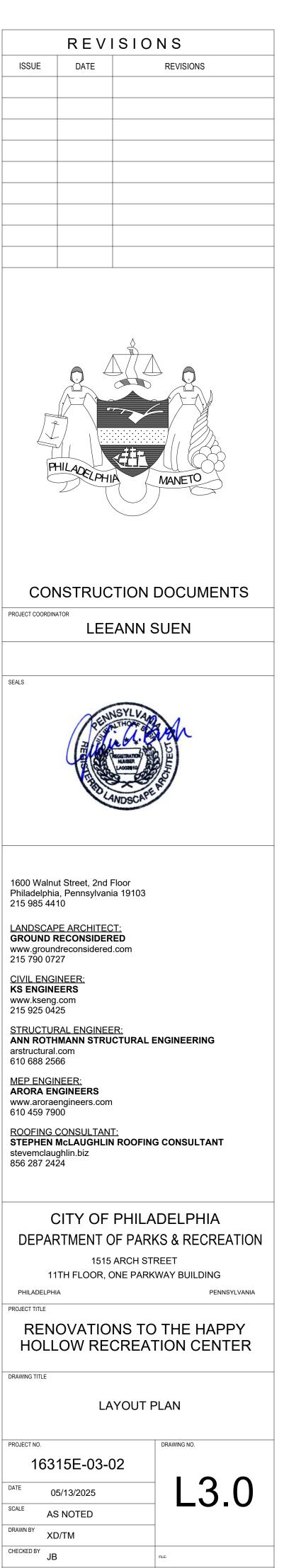
POINT OF CURVATURE

(+) P.O.C.

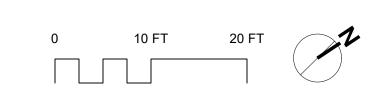
ALIGN

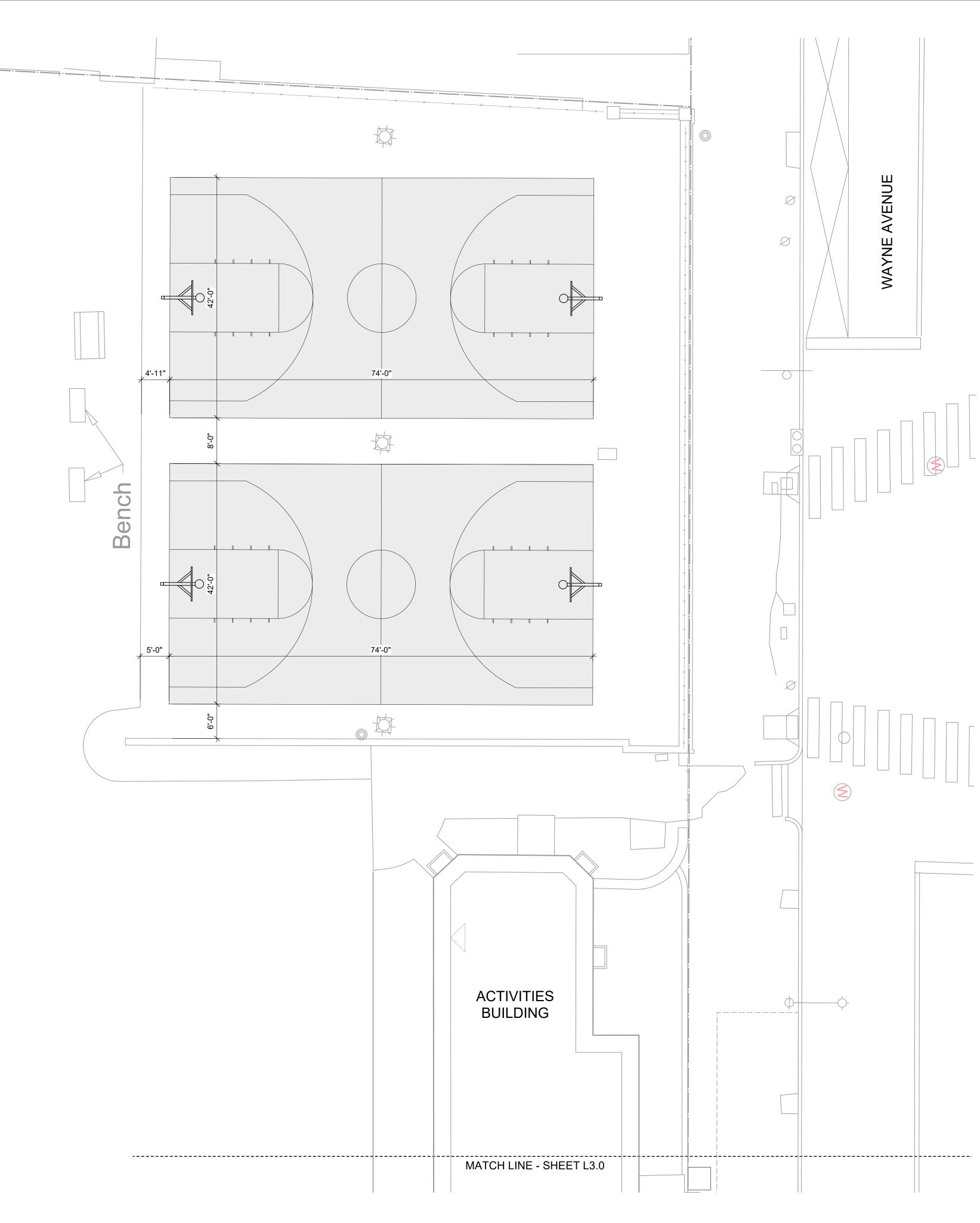
### LAYOUT NOTES

- 1. ALL LINES ARE PARALLEL OR PERPENDICULAR UNLESS OTHERWISE NOTED.
- 2. ALL DIMENSIONS ARE SHOWN TO FACE OF MATERIALS, UNLESS SHOWN OTHERWISE.
- 3. V.I.F. = VERIFY IN FIELD: VERIFY ALL DIMENSIONS FROM FIELD MEASUREMENTS. VERIFY LAYOUT OF ALL PROPOSED WORK WITH EXISTING CONDITIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK.
- 4. PROVIDE STAKED LAYOUT FOR REVIEW AND APPROVAL BY
- LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK. 5. DIMENSIONS ARE APPROXIMATE, MUST BE VERIFIED WITH FALL
- ZONES. 6. ALL SPRAY EQUIPMENT DIMENSIONS ARE SHOWN TO THE CENTER OF SPRAY HEAD AND/OR POST, TYP.



NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

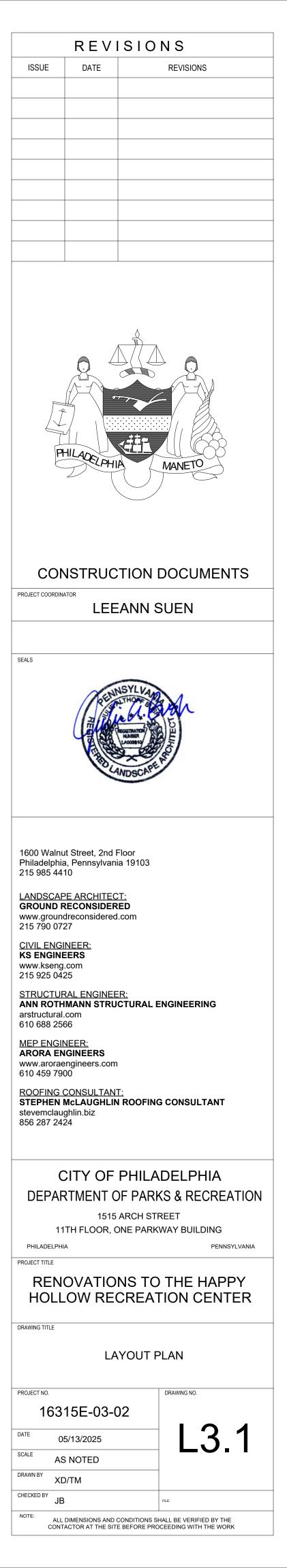


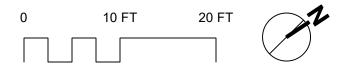


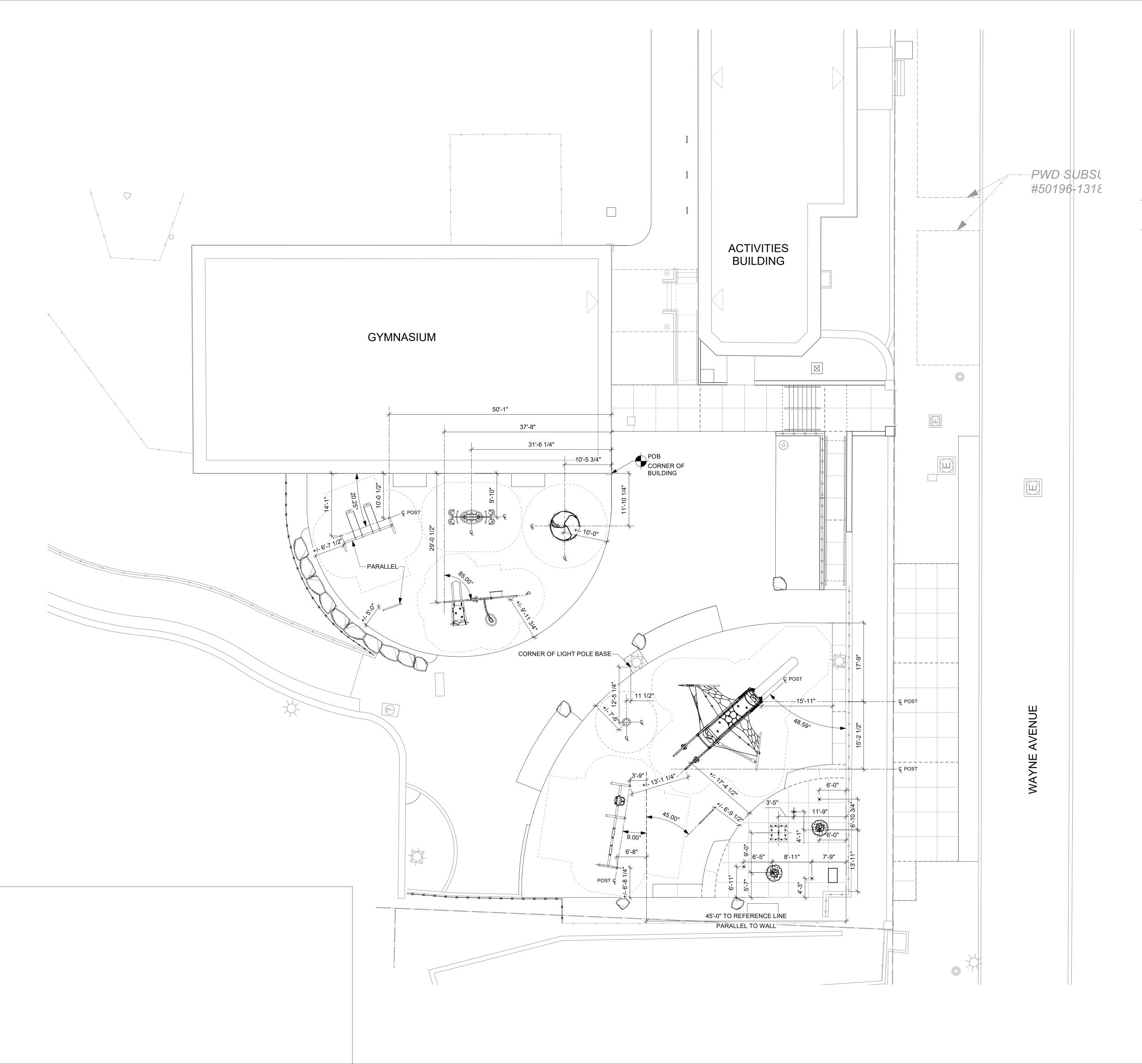
LAYOUT LEGE	LAYOUT LEGEND			
	PROPERTY LINE			
£	CENTER LINE			
	REFERENCE LINE			
x'-x"	LINEAR DIMENSION			
X°	ANGULAR DIMENSION			
P+: +: +:	RADIAL DIMENSION			
-Ф-Р.О.В.	POINT OF BEGINNING			
P.O.C.	POINT OF CURVATURE			
ALIGN				

### LAYOUT NOTES

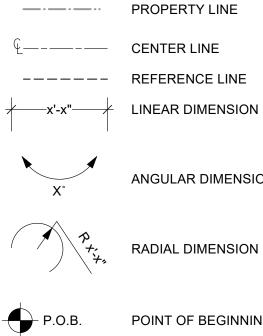
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- 6. ALL SPRAY EQUIPMENT DIMENSIONS ARE SHOWN TO THE CENTER OF SPRAY HEAD AND/OR POST, TYP.







#### LAYOUT LEGEND



ANGULAR DIMENSION RADIAL DIMENSION POINT OF BEGINNING

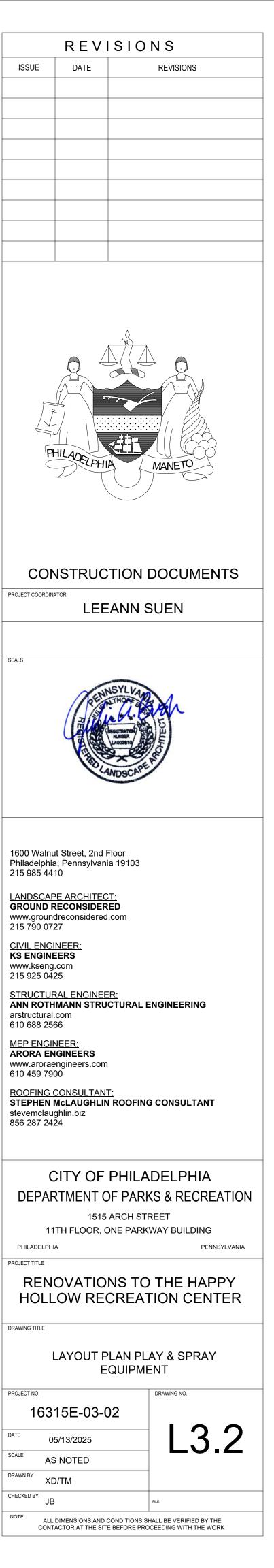
POINT OF CURVATURE

- (- )→ P.O.C.

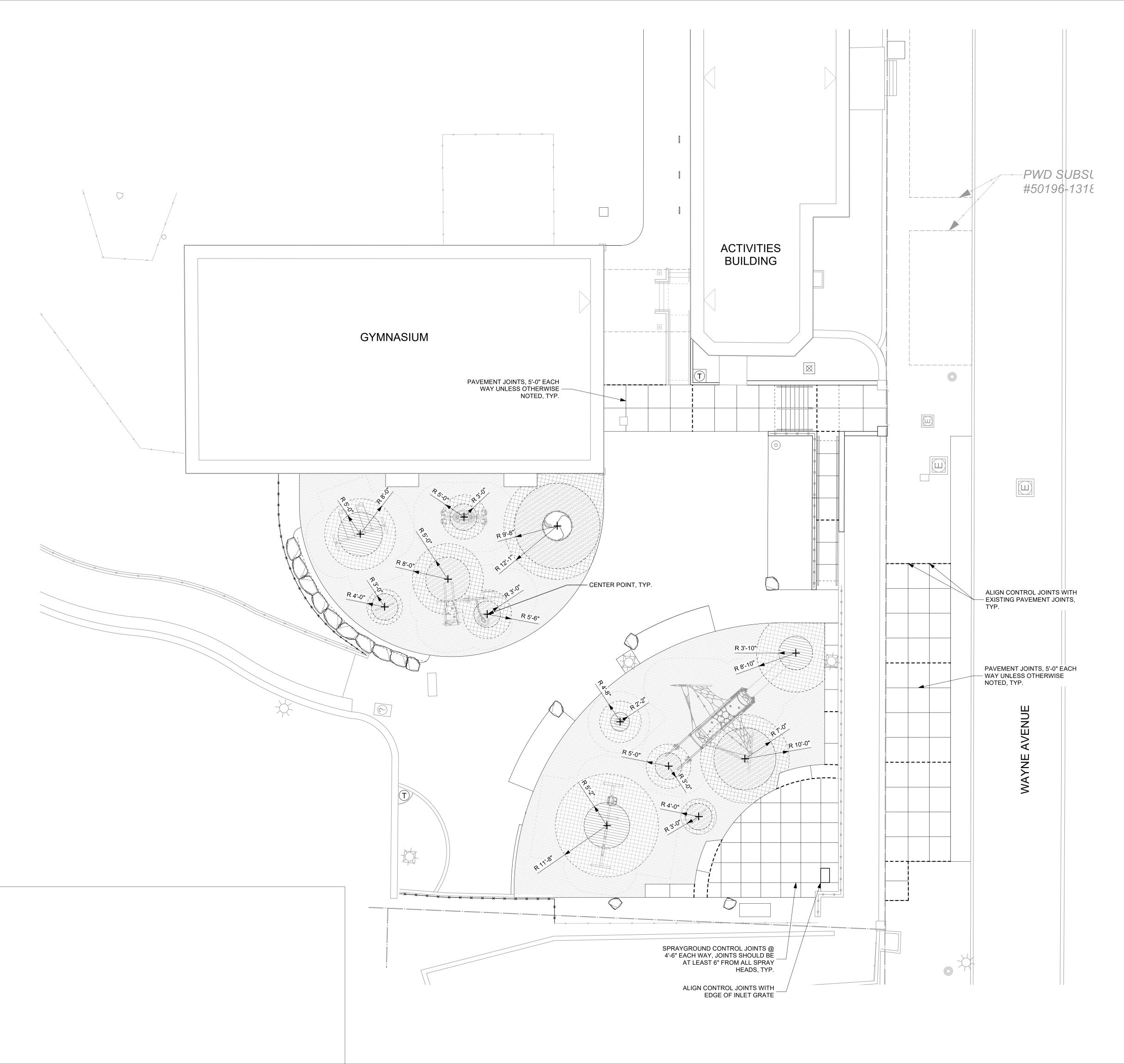
ALIGN

## LAYOUT NOTES

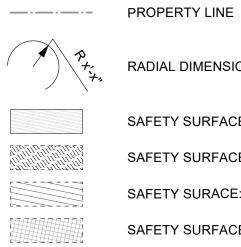
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- ZONES. 6. ALL SPRAY EQUIPMENT DIMENSIONS ARE SHOWN TO THE CENTER OF SPRAY HEAD AND/OR POST, TYP.





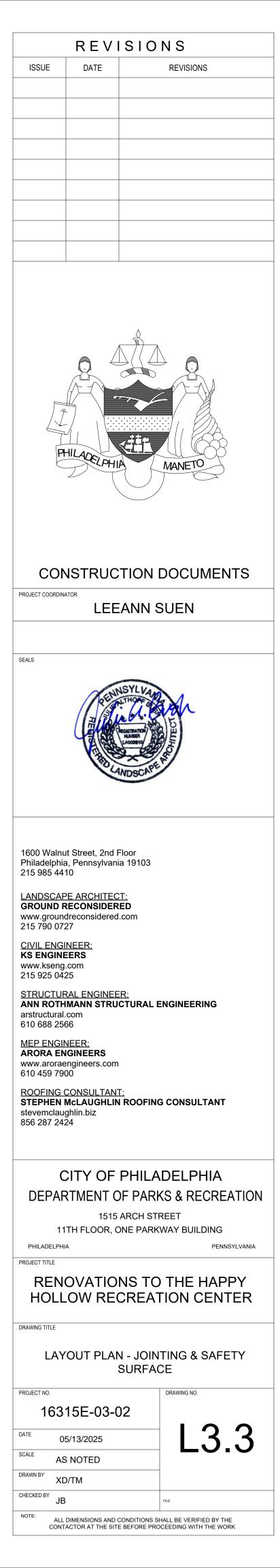


### LAYOUT LEGEND



RADIAL DIMENSION

SAFETY SURFACE: COLOR A SAFETY SURFACE: COLOR B SAFETY SURACE: COLOR C SAFETY SURFACE TRANSITION ZONE



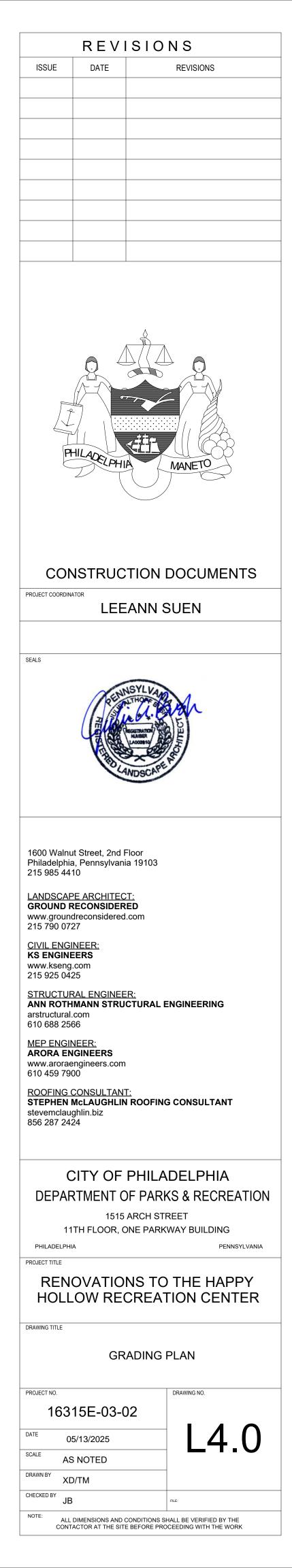
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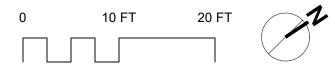


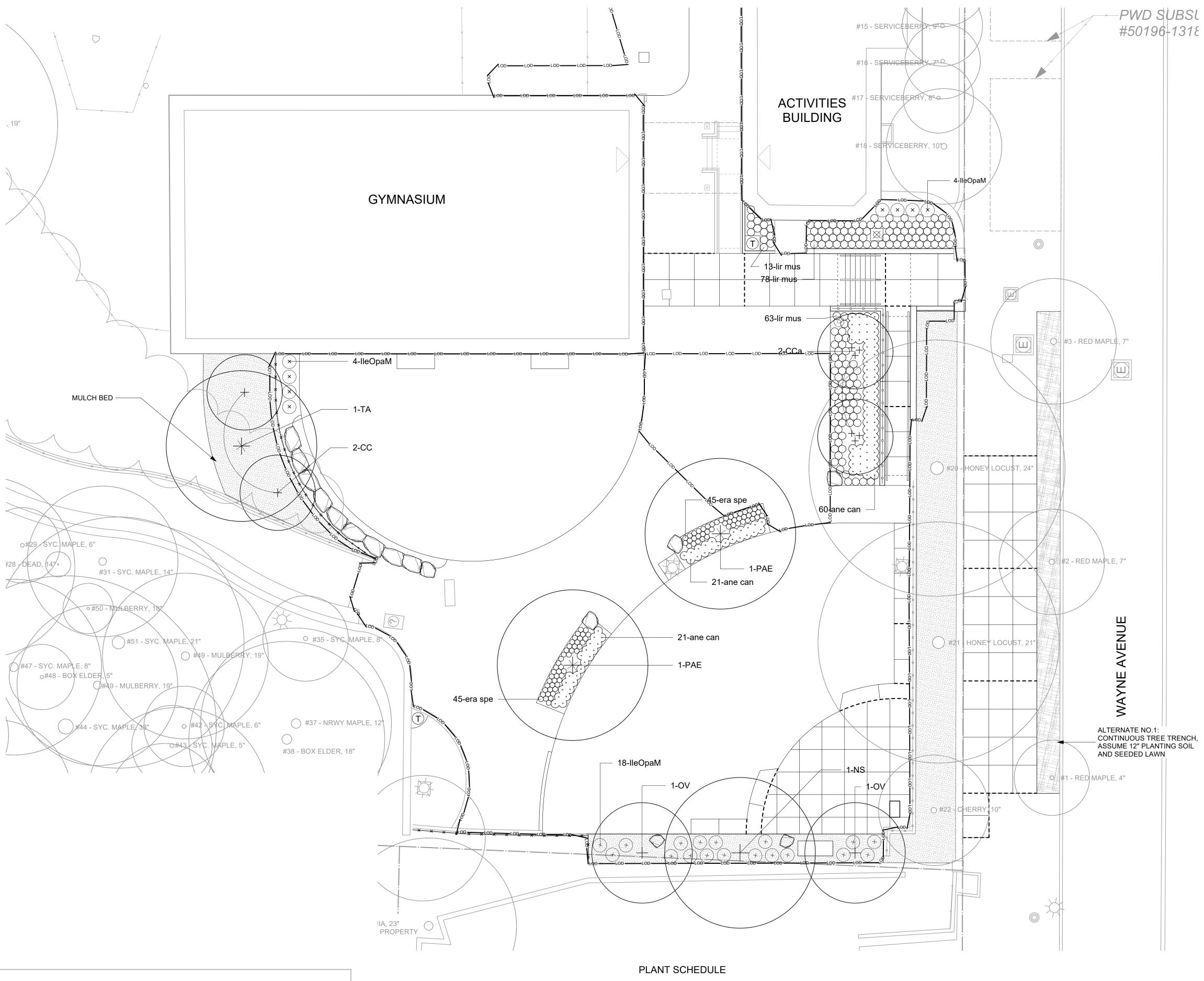


GRADING LEGEND				
	PROPERTY LINE			
	LIMIT OF DISTURBANCE			
× 0.00	EXISTING SPOT ELEVATION			
+0.00	PROPOSED SPOT ELEVATION			
+(EX0.00)	EXISTING ELEVATION (INTERPOLATED)			
+(TW0.00)	TOP OF WALL			
+( <b>BW0.00</b> )	BOTTOM OF WALL			
+(TW0.00)	TOP OF STEP			
+(BS0.00)	BOTTOM OF STEP			
+(HP0.00)	HIGH POINT			
<0.0%)	PERCENT SLOPE			
0	CONTOUR			
V.I.F.	VERIFY IN FIELD			
<ul> <li><b>GRADING NOTES</b></li> <li>1. ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND DOCUMENTED EXISTING OR PROPOSED CONDITIONS SHALL BE REPORTED TO OWNER IN WRITING.</li> <li>2. ADJUST EXISTING AND PROPOSED UTILITIES TO MEET FINAL DESIGN CONDITIONS AS NECESSARY.</li> </ul>				
3. ADJUST TOPS OF ALL MANHOLE LIDS, EXISTING UTILITY STRUCTURES, ETC. TO MEET				

PROPOSED GRADES.
FINISH GRADES OF PAVEMENTS AND SOIL ALONG BOTTOM OF CURBS AND WALLS SHALL HAVE A CONSTANT SLOPE UNLESS INDICATED BY SPOT ELEVATIONS.



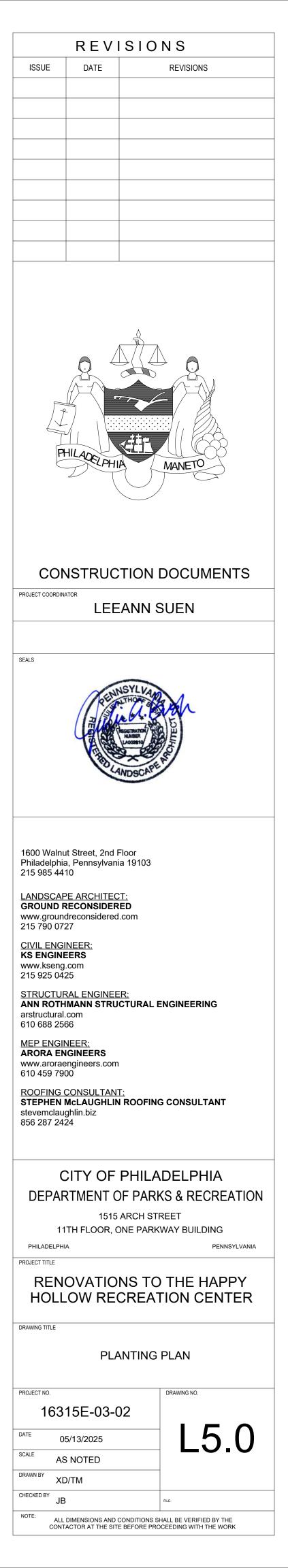




Qty	ld	Botanical Name	Common Name	Size	Spacing	Notes
Canopy Trees						
2	CC	Carpinus caroliniana	American Hormbeam	2 1/2" - 3" cal.	As Shown	Specimen Quality, B&B
1	NS	Nyssa sylvatica 'Wildfire'	Wildfire Blackgum	2 1/2" - 3" cal.	As Shown	Specimen Quality, B&B
2	OV	Ostrya virginiana	American Hop Hornbeam	2 1/2" - 3" cal.	As Shown	Specimen Quality, B&B
2	PAE	Platanus x acerfolia 'Exclamation'	Exclamation London Plane	2 1/2" - 3" cal.	As Shown	Specimen Quality, B&B
1	TA	Tilia americana 'Redmond'	American Basswood	2 1/2" - 3" cal.	As Shown	Specimen Quality, B&B
Unde	rstory Trees					
2	CCa	Cercis canadensis	Eastern Redbud	8' - 10' ht.	As Shown	Specimen Quality, B&B, Multistem
Shruk	bs					
26	lleOpaM	llex opaca 'Maryland Dwarf'	Maryland Dwarf American Holly	#3	36" o.c.	Container
Perer	nials					
102	ane can	Anemone canadensis	Meadow Anemone	#1	18" o.c.	Container
154	lir mus	Liriope muscari	Big Blue Lily Turf	#1	18" o.c.	Container
•						
Ornai	mental Grasse	S				
90	era spe	Eragrostis spectabilis	Purple Love Grass	#1	12" o.c	Container

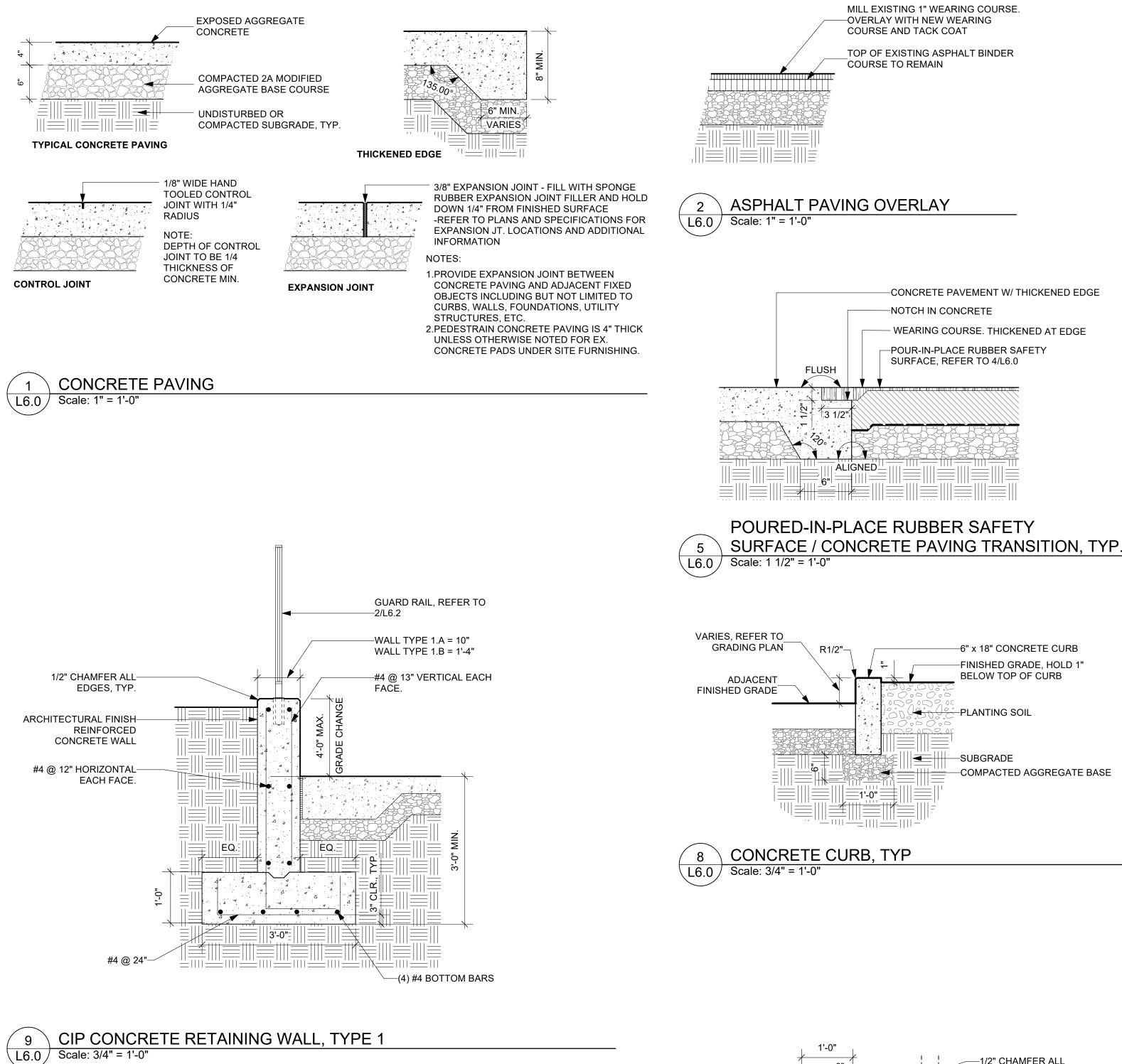
PLANTING LEGEND				
	PROPERTY LINE LIMIT OF DISTURBANCE			
+	PROPOSED CANOPY TREE			
++	PROPOSED ORNAMENTAL TREE			
$\infty$	PROPOSED SHRUBS, PERENNIALS AND ORNAMENTAL GRASSES			
	MULCH BED, 2"-3" THICK, TYP.			
	12" PLANTING SOIL AND SEEDED LAWN			

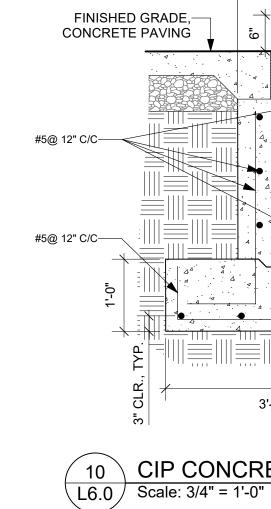
PLANTING NOTES
1. REFER TO SPECIFICATION SECTION 329300, PLANTS FOR ADDITIONAL REQUIREMENTS.

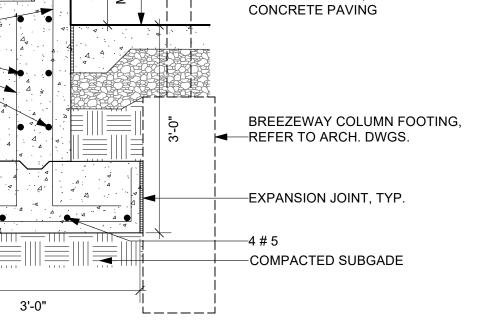


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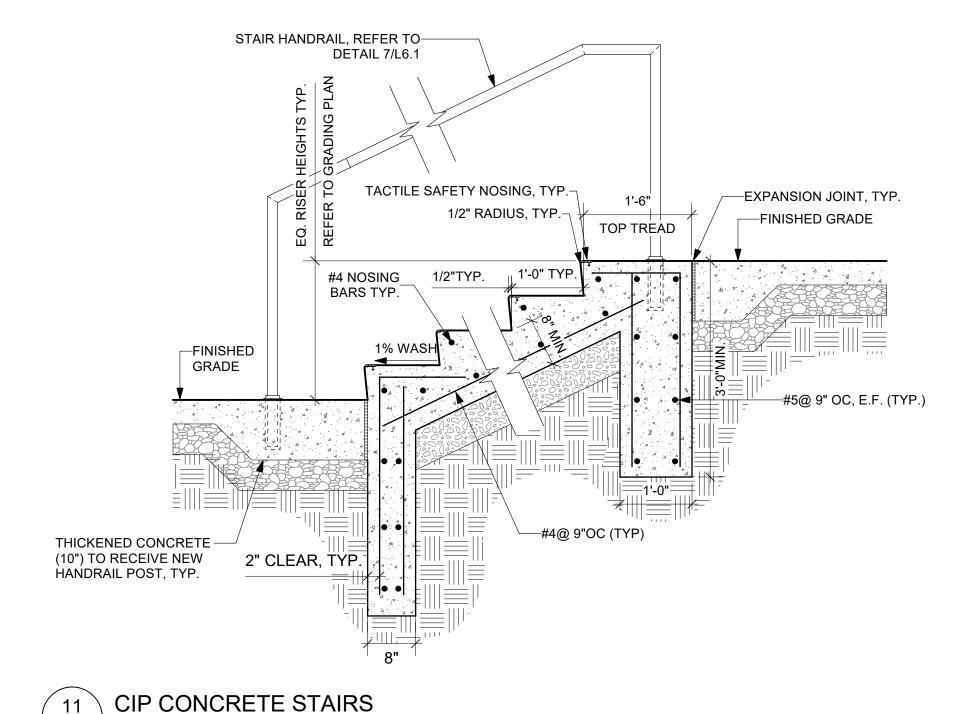




-FINISHED GRADE, CONCRETE PAVING

ARCHITECTURAL FINISH -REINFORCED CONCRETE WALL

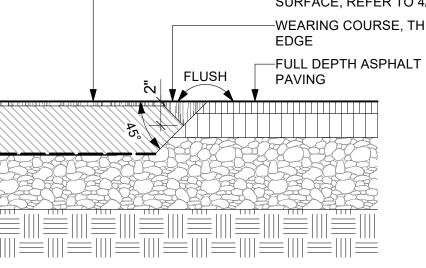
-1/2" CHAMFER ALL EDGES, TYP.



#### POURED-IN-PLACE RUBBER SAFETY **SURFACE / ASPHALT PAVING TRANSITION** 6 ` L6.0 Scale: 1 1/2" = 1'-0"

11

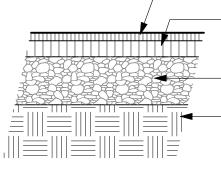
L6.0 Scale: 3/4" = 1'-0"



-POUR-IN-PLACE RUBBER SAFETY SURFACE, REFER TO 4/L6.0 -WEARING COURSE, THICKEN AT

BOTTOM STEP—

FULL DEPTH ASPHALT PAVING 3 L6.0 / Scale: 1" = 1'-0"



-6" COMPACTED AGGREGATE BASE 

-2" ASPHALT BINDER COURSE

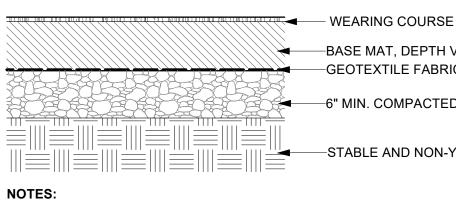
-1" ASPHALT

WEARING COURSE



4

7 `



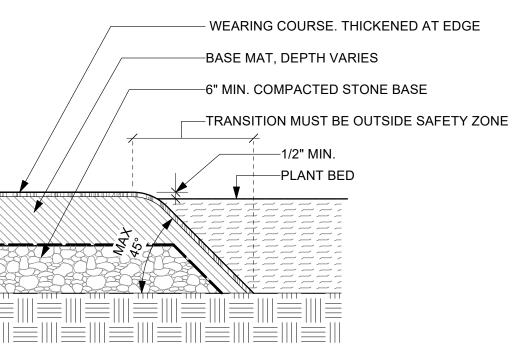
BASE MAT, DEPTH VARIES -GEOTEXTILE FABRIC

🚰 —— 6" MIN. COMPACTED STONE BASE

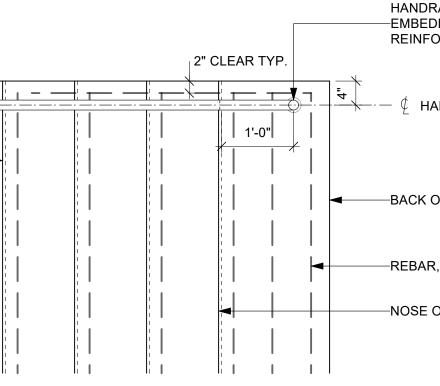
STABLE AND NON-YIELDING SUBGRADE

1. SAFETY SURFACE DEPTH MUST MEET OR EXCEED THAT WHICH IS REQUIRED TO MEET THE CRITICAL FALL HEIGHT CRITERIA OF EACH PIECE OF EQUIPMENT AND ASTM-F1292-13, OR MOST RECENT EDITION STANDARD.

POURED-IN-PLACE RUBBER SAFETY SURFACE, TYP. L6.0 / Scale: 1 1/2" = 1'-0"



## POURED-IN-PLACE RUBBER SAFETY SURFACE / PLANTBED TRANSITION L6.0 Scale: 1 1/2" = 1'-0"



HANDRAIL POST, ENSURE THAT -EMBEDMENT IS CLEAR OF STAIR REINFORCING, TYP.

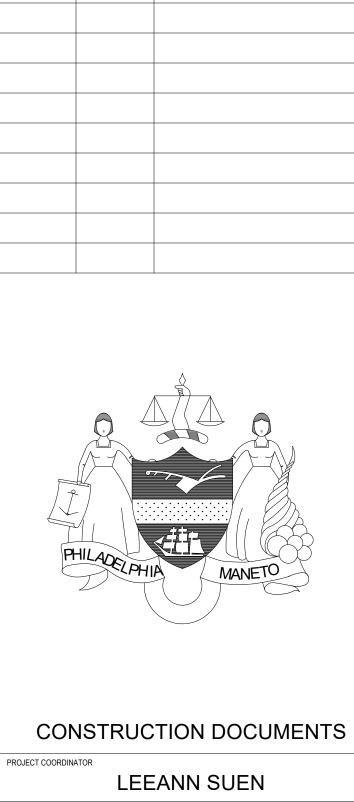
🖞 HANDRAIL

-BACK OF TOP TREAD

-REBAR, TYP.

-NOSE OF TOP TREAD

PLAN VIEW



REVISIONS

REVISIONS

DATE

ISSUE

SEALS

1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410

LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727

CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425

STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566

MEP ENGINEER: **ARORA ENGINEERS** www.aroraengineers.com 610 459 7900

**ROOFING CONSULTANT:** STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424

## CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION**

1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING

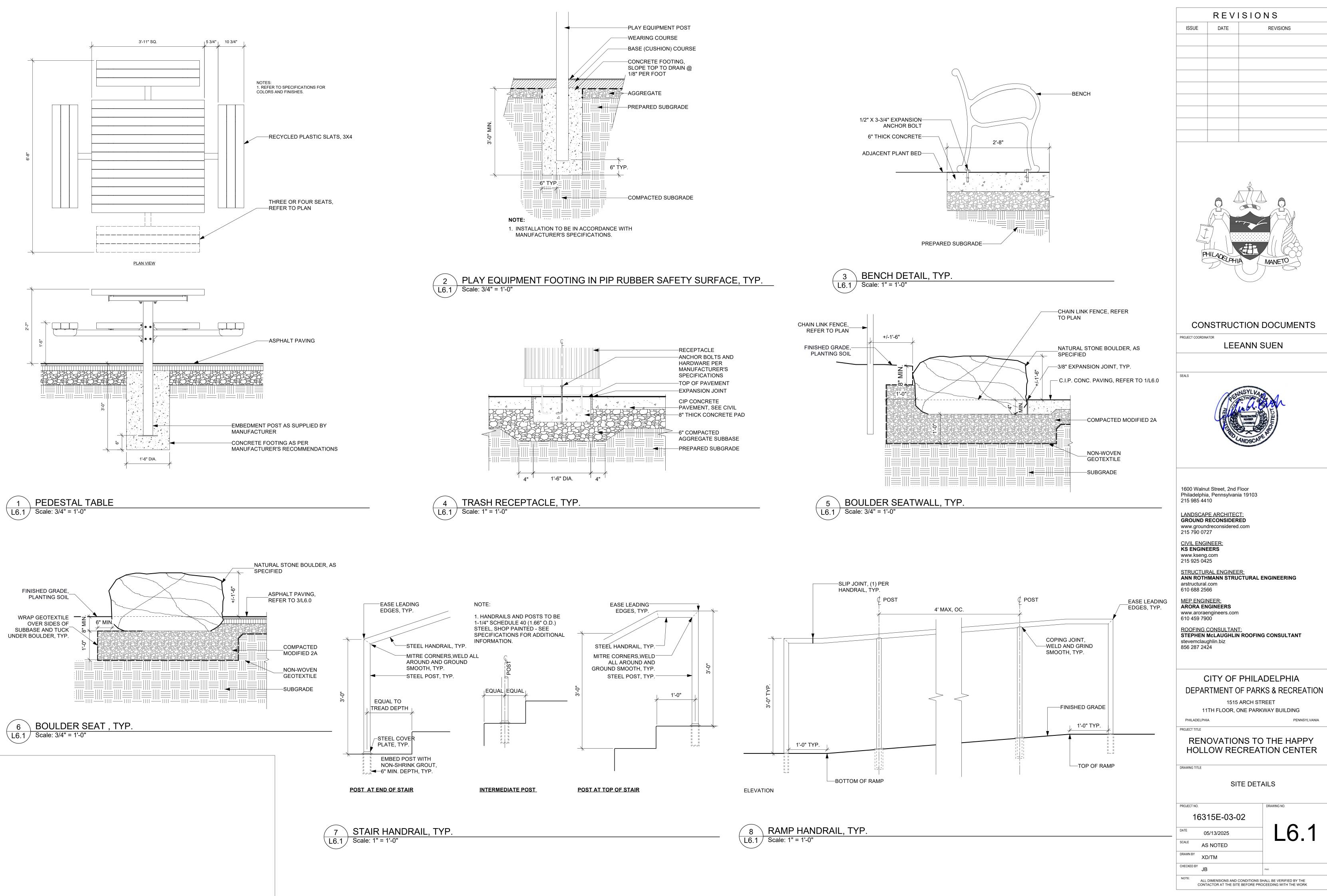
PENNSYLVANIA

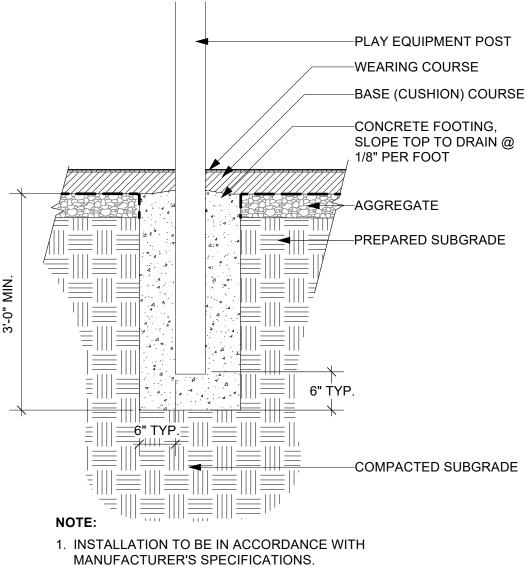
PHILADELPHIA PROJECT TITLE

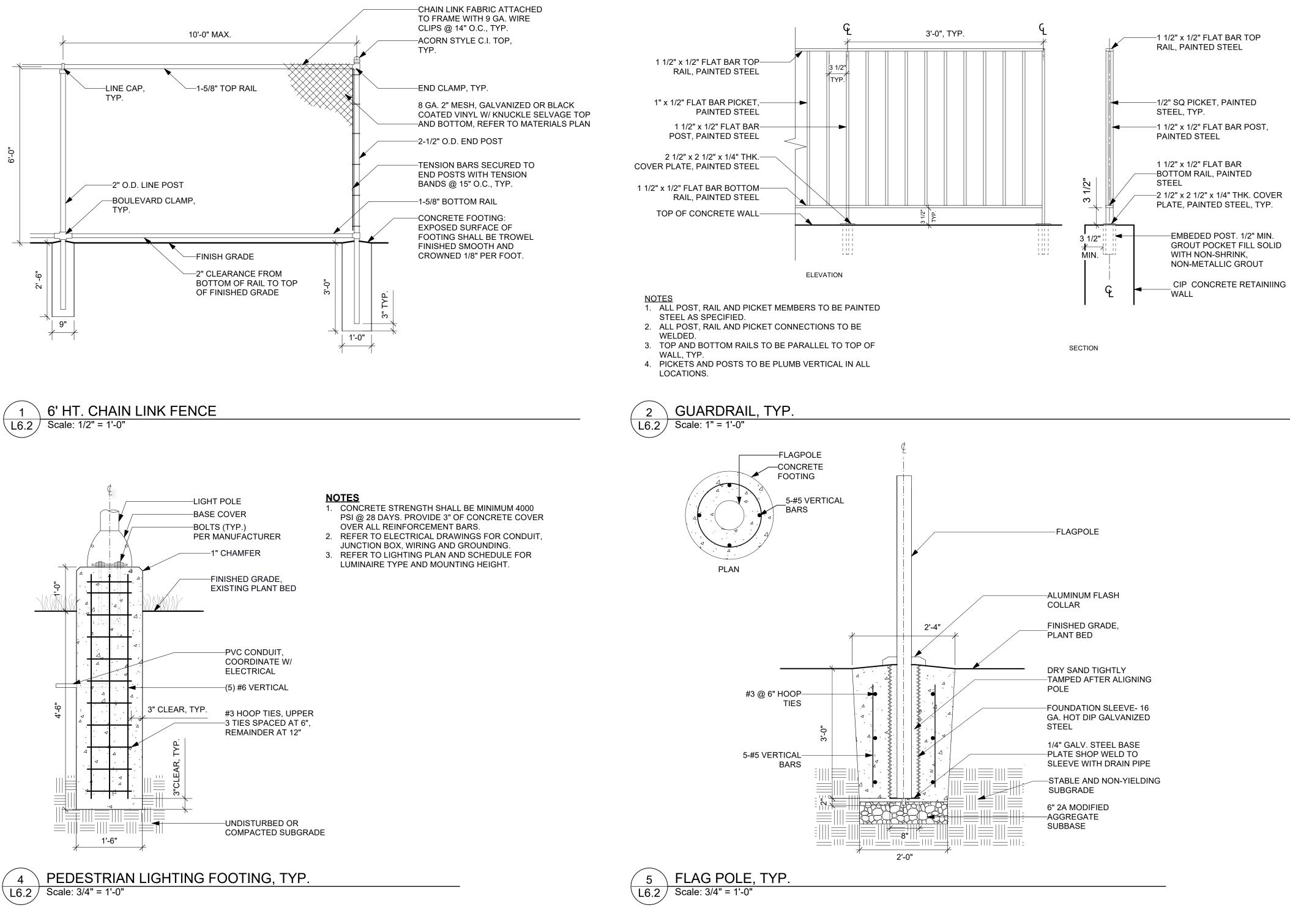
## **RENOVATIONS TO THE HAPPY** HOLLOW RECREATION CENTER

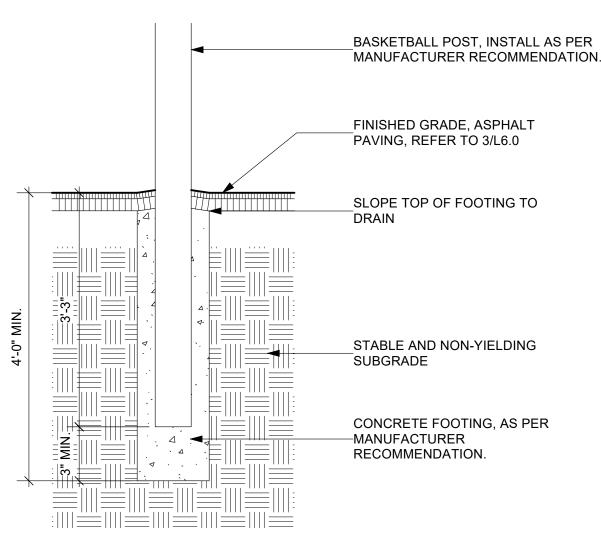
DRAWING TITLE

SITE DETAILS PROJECT NO. DRAWING NO. 16315E-03-02 L6.0 DATE 05/13/2025 SCALE AS NOTED DRAWN BY XD/TM CHECKED BY JB NOTE ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK







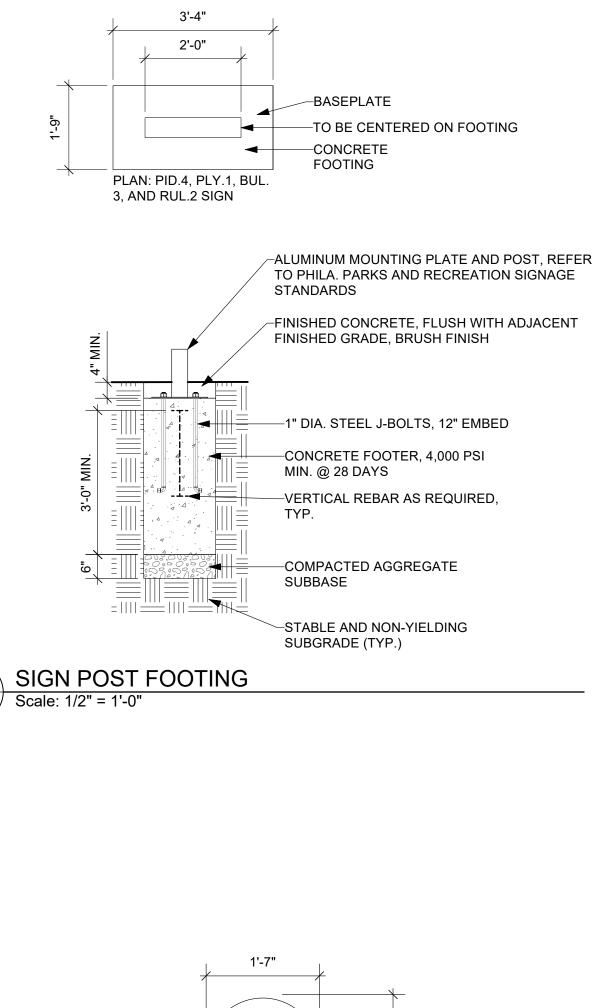


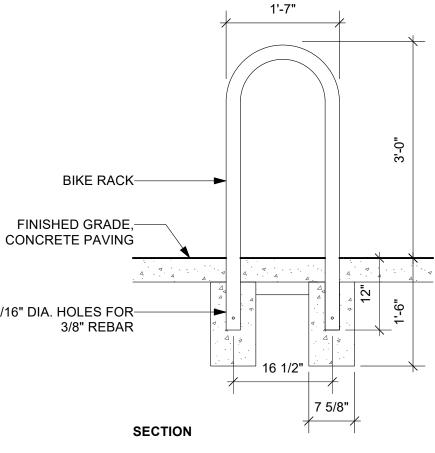


7/16" DIA. HOLES FOR-

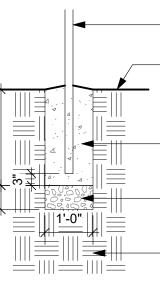












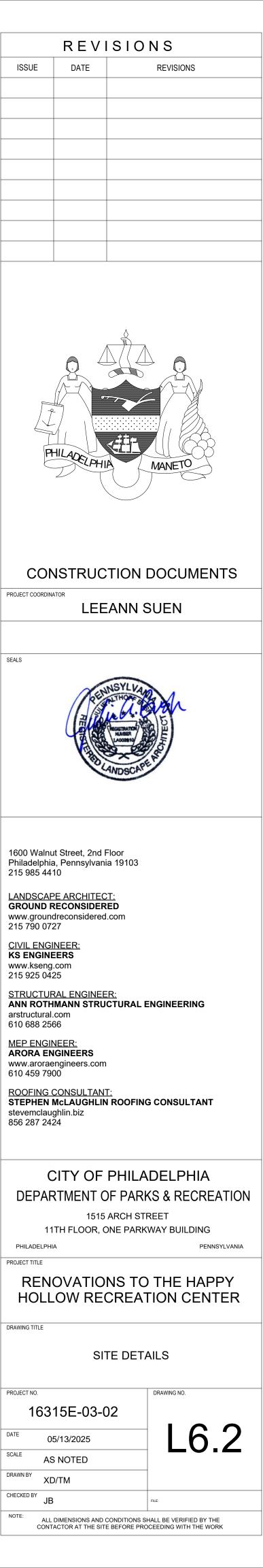
2" x 2" ALUMINUM TUBE, REFER TO -PHILA. PARKS AND RECREATION SIGNAGE STANDARDS -FINISHED GRADE

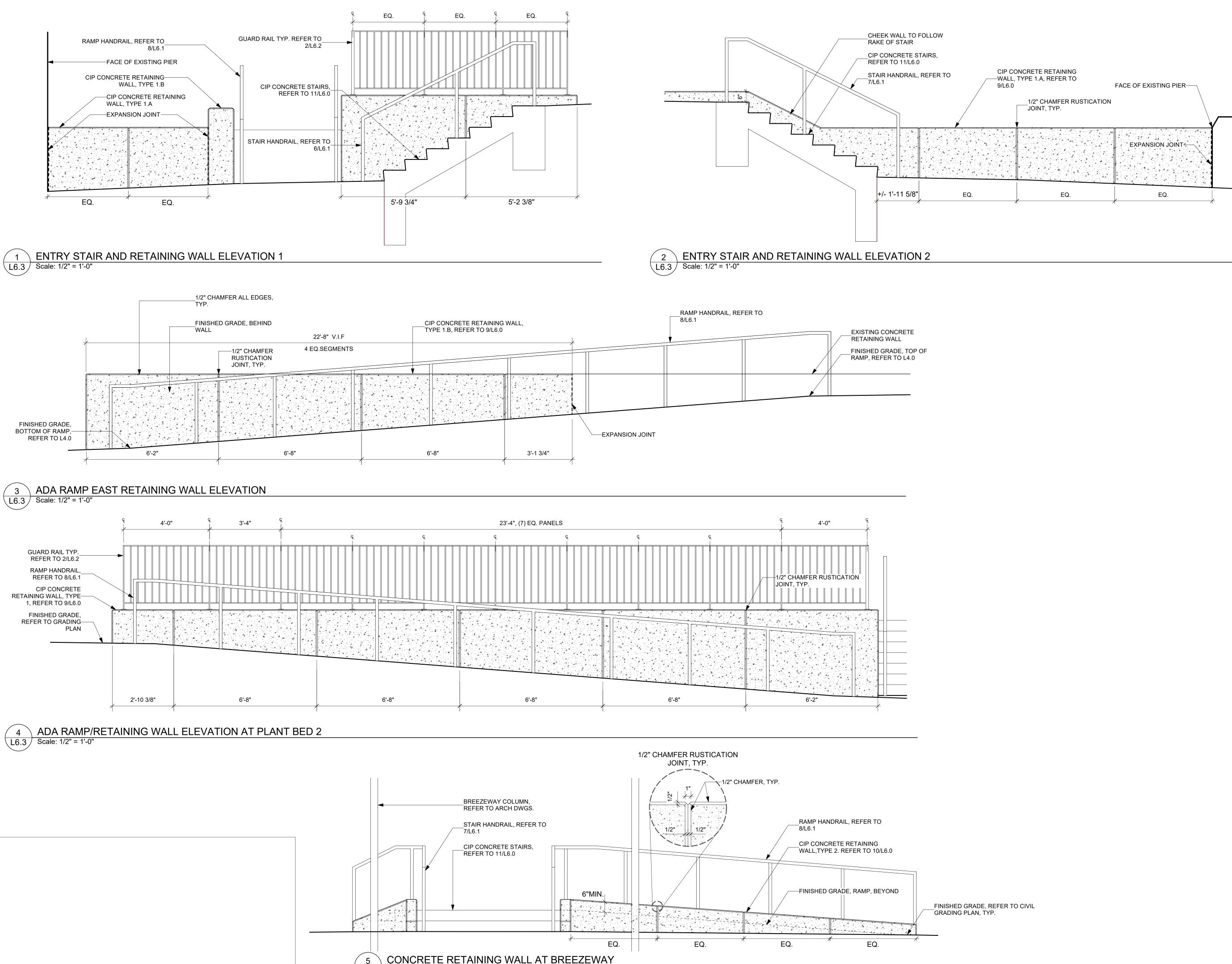
CONCRETE FOOTING, 12" DIA. -SLOPE TOP OF FOOTING TO DRAIN, TYP.

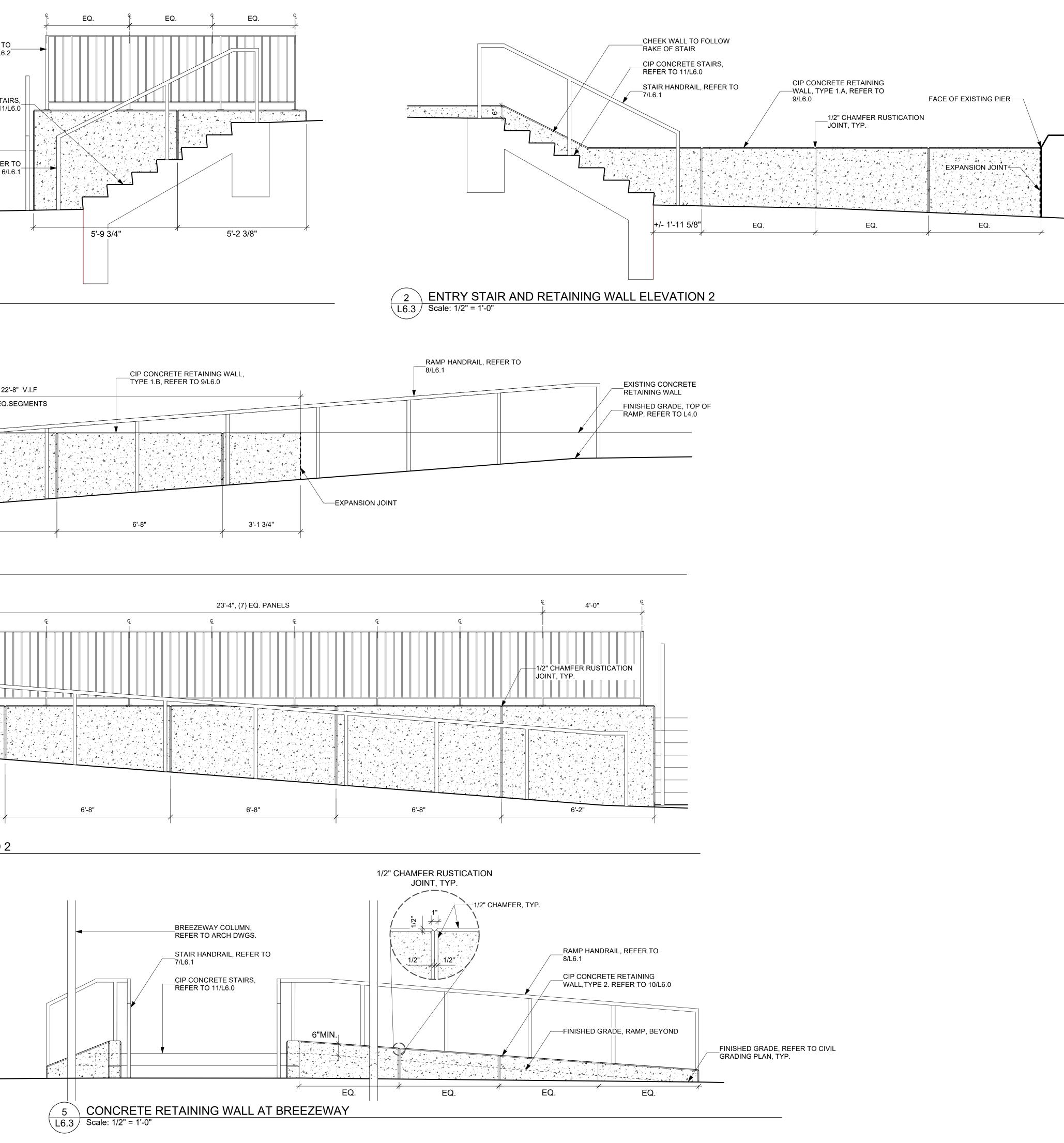
COMPACTED AGGREGATE SUBBASE

STABLE AND NON-YIELDING SUBGRADE (TYP.)

## 58 SIGN POST FOOTING, RUL.6

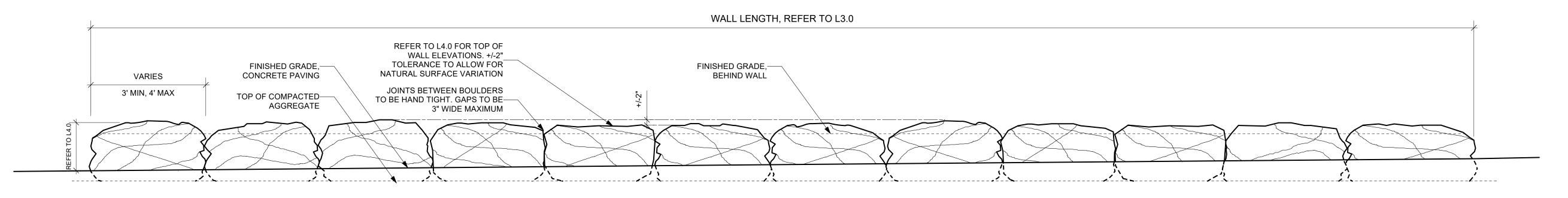






ISSUE DATE REVISIONS PHILADELPHIA MANETO CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN SEALS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 <u>CIVIL ENGINEER:</u> KS ENGINEERS www.kseng.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PENNSYLVANIA PHILADELPHIA PROJECT TITLE **RENOVATIONS TO THE HAPPY** HOLLOW RECREATION CENTER DRAWING TITLE SITE DETAILS PROJECT NO. DRAWING NO. 16315E-03-02 L6.3 DATE 05/13/2025 SCALE AS NOTED DRAWN BY XD/TM CHECKED BY JB NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

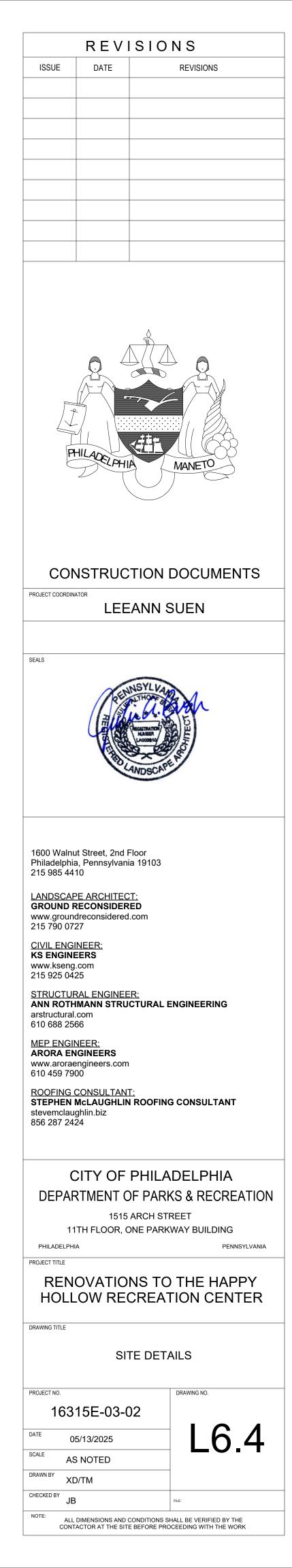
REVISIONS



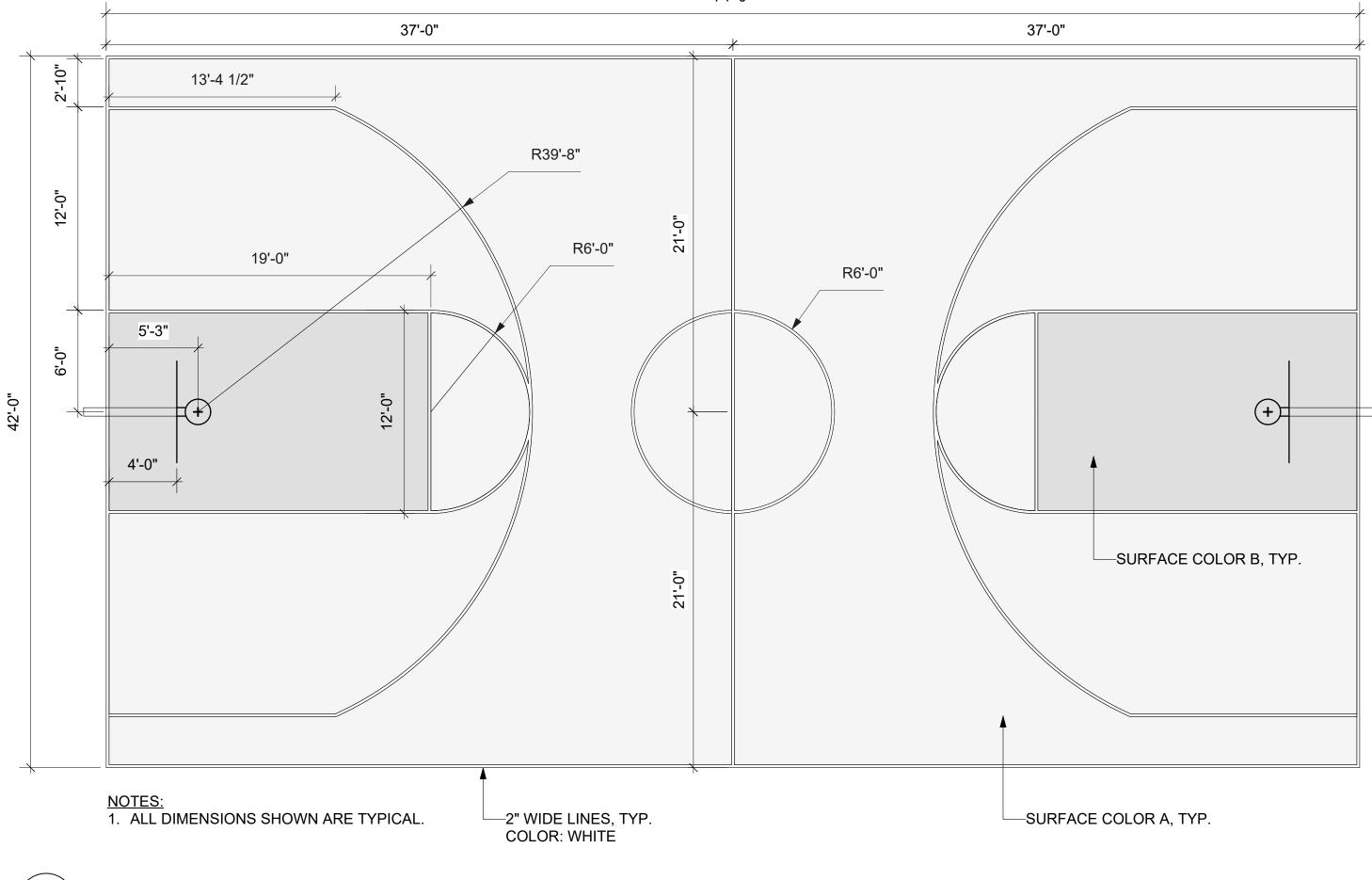




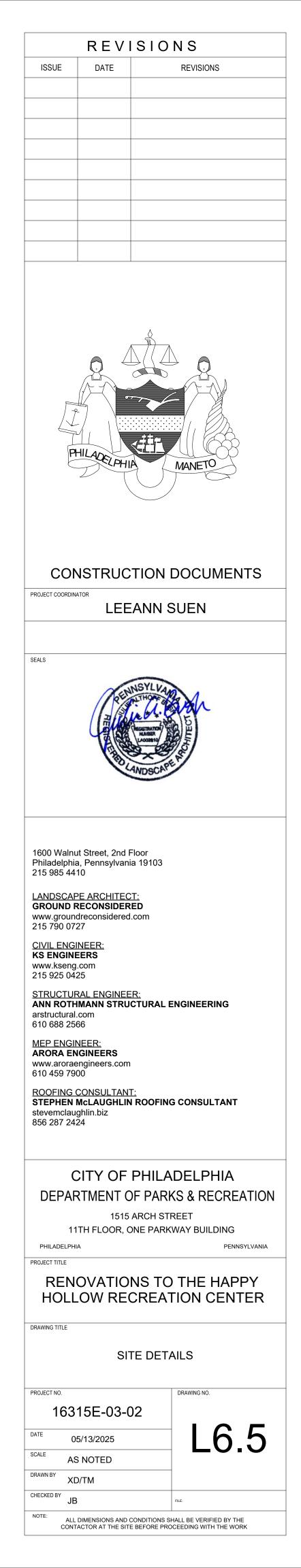
2 DETAIL ENLARGEMENT PLAN - PAVEMENT MARKINGS L6.4 Scale: 1/8" = 1'-0"

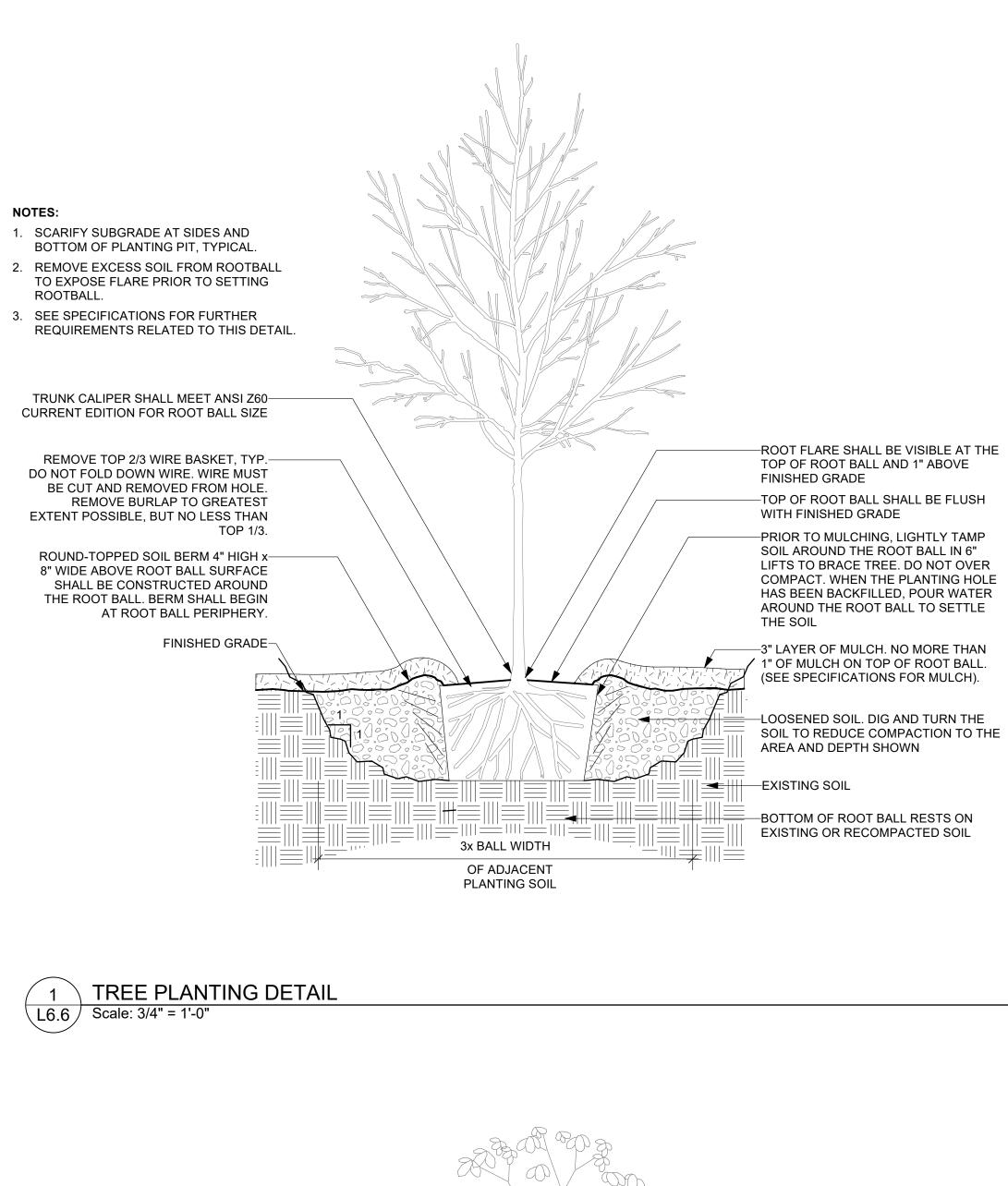












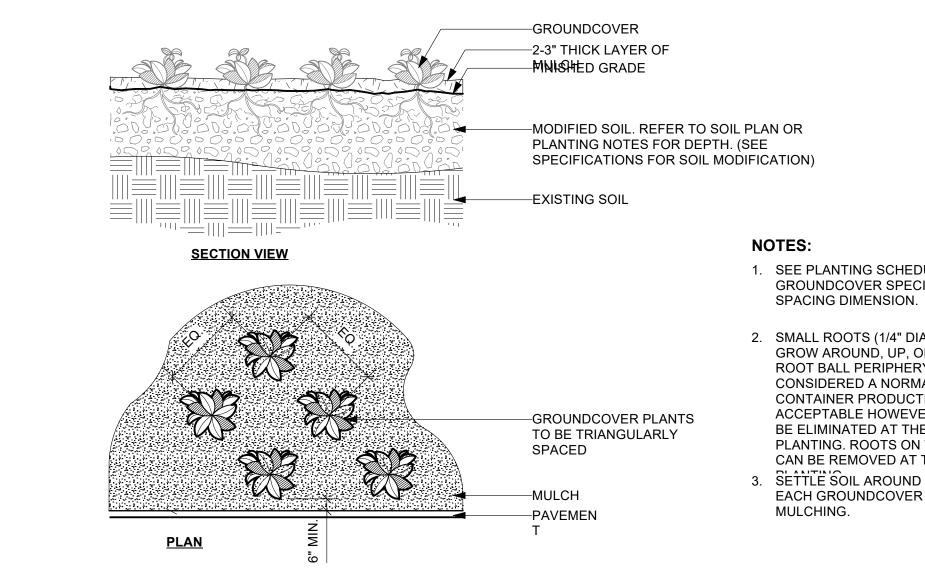
2" LAYER OF MULCH - NO MORE THAN-1" OF MULCH ON TOP OF ROOT BALL (SEE SPECIFICATIONS FOR MULCH)

FINISHED GRADE

MODIFIED SOIL, REFER TO SOIL PLAN-OR PLANTING NOTES FOR DEPTH. (SEE SPECIFICATIONS FOR SOIL MODIFICATION)

ROOT BALL RESTS ON EXISTING OR-RECOMPACTED SOIL







GROUNDCOVER PLANTING

-SHRUB -ROOTBALL

-4" HIGH X 8" WIDE ROUND -

BALL SURFACE SHALL BE

AT ROOT BALL PERIPHERY

CONSTRUCTED AROUND THE

ROOT BALL. BERM SHALL BEGIN

-PRIOR TO MULCHING, LIGHTLY

TAMP SOIL AROUND THE ROOT

BALL IN 6" LIFTS TO BRACE SHRUB.

DO NOT OVER COMPACT. WHEN

THE PLANTING HOLE HAS BEEN

BACKFILLED, POUR WATER

SETTLE THE SOIL

-EXISTING SOIL

man

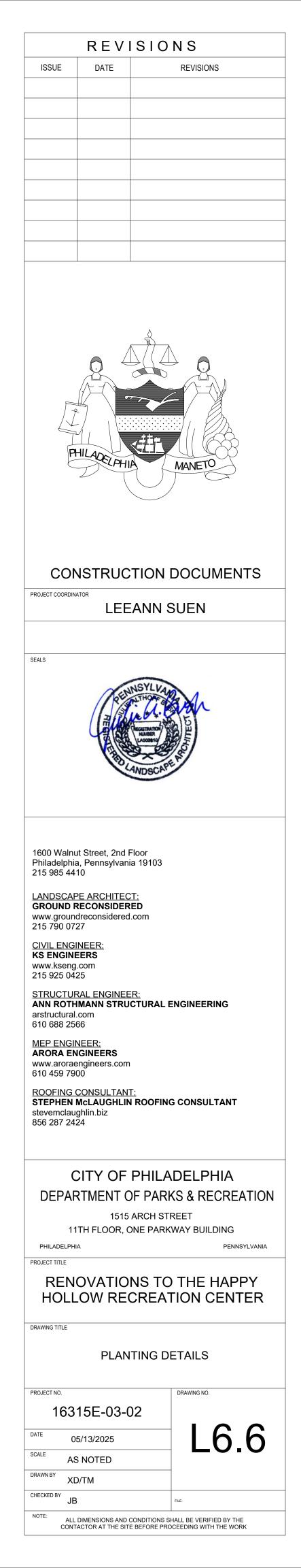
AROUND THE ROOT BALL TO

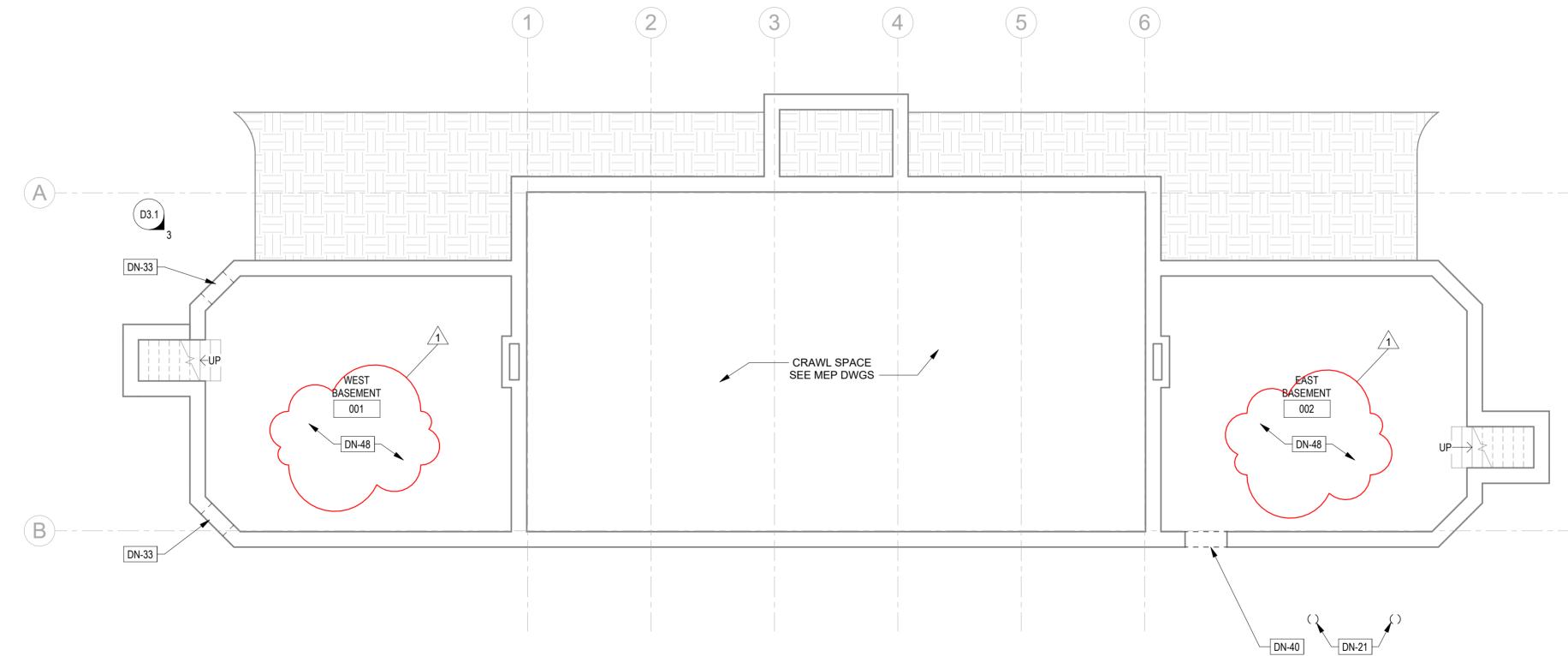
TOPPED SOIL BERM ABOVE ROOT

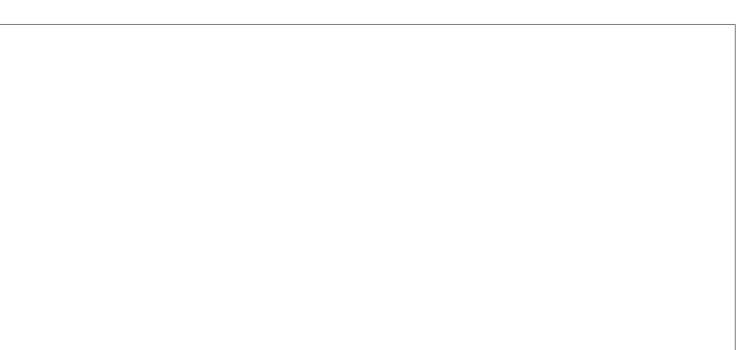
1. SEE PLANTING SCHEDULE FOR GROUNDCOVER SPECIES, SIZE, AND

2. SMALL ROOTS (1/4" DIA. OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPERHY CAN BE REMOVED AT THE TIME OF

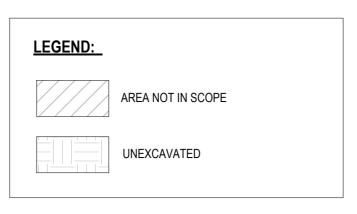
3. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO



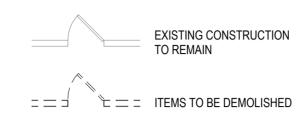








DEMOLITION KEY:



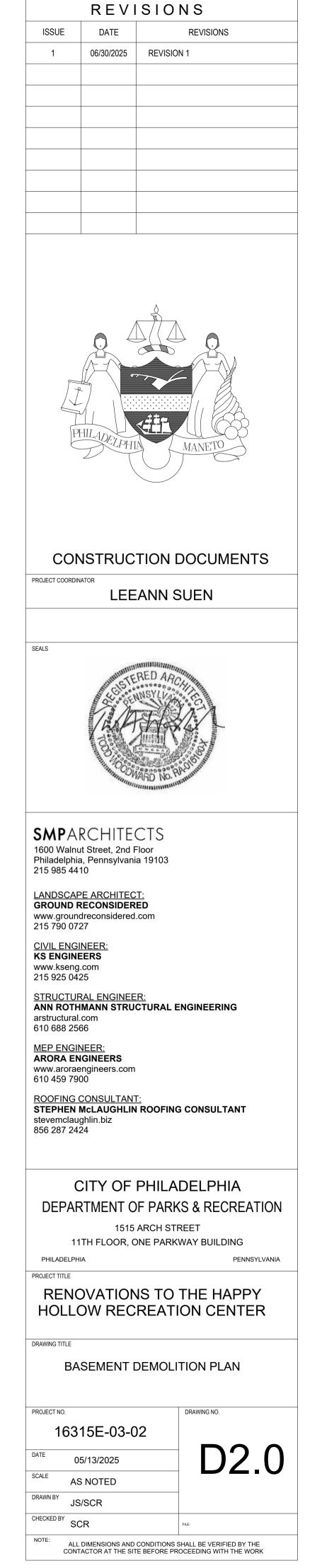


#### GENERAL DEMOLITION NOTES:

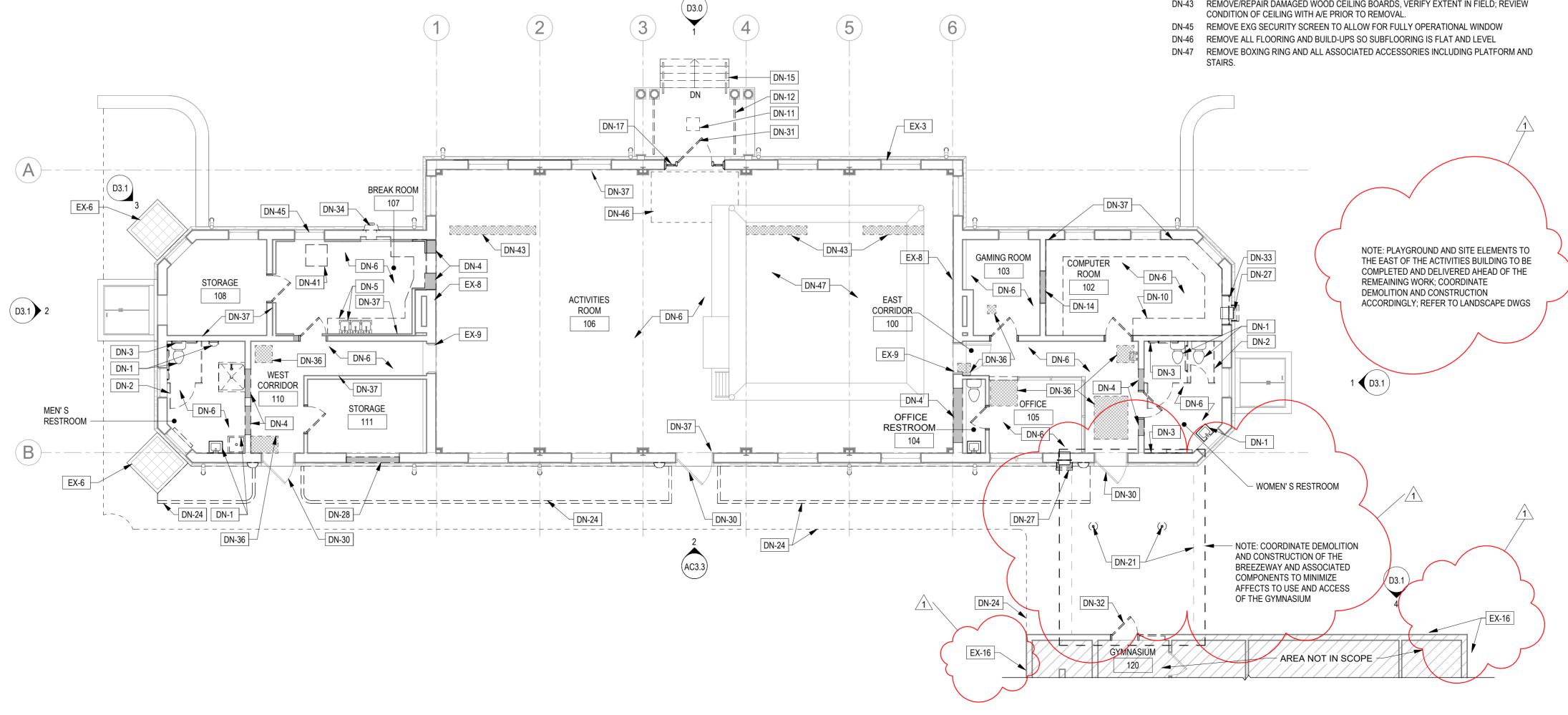
- 1. ALL EXG CONDITIONS AND DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
- 2. ALL GLAZED BRICK LOCATIONS TO BE STRIPPED OF PAINT.
- 3. REFER TO MEPFP DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS. 4. REMOVE ALL EXG INTERIOR DOORS, FRAMES & HARDWARE, UNO.
- 5. REMOVE ALL OVERHEAD INTERIOR LIGHTING, UNO, REF ELEC DWGS, UNO.
- REMOVE AND STORE ALL EXERCISE EQUIPMENT FOR REINSTALLATION, UNO. REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS.
- . REMOVE MECHANICAL EQUIPMENT, UNO.; SEE MECHANICAL DWGS, UNO. 9. REMOVE ELECTRICAL FIXTURES/EQUIPMENT, UNO.; SEE ELEC DWGS.
- REMOVE ALL SECURITY SYSTEM EQUIPMENT & ASSOCIATED WIRING, SEE ELEC DWGS.
   REMOVE ALL VEGETATION FROM BUILDING EXTERIOR SURFACES.
- 12. REMOVE ALL EXG CAST IRON DOWNSPOUT BOOTS.

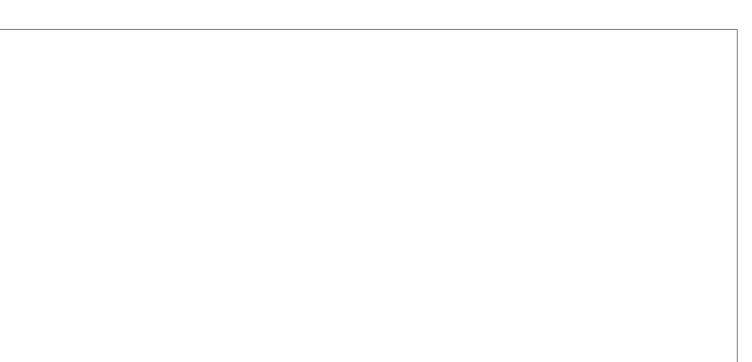
#### KEYED DEMOLITION NOTES

- DN-21 REMOVE BREEZEWAY ROOF, COLUMNS, FOOTINGS AND ALL ASSOCIATED STRUCTURE.
- DN-33 REMOVE EXG WINDOW / LOUVER. DN-40 REMOVE SECTION OF FOUNDATION WALL FOR HVAC REFRIGERANT LINE PENETRATION, SEE STRUCT
- & MECH DWGS. DN-48 REMOVE ALL DEBRIS AND UNUSED MISCELLANEOUS EQUIPMENT



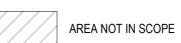






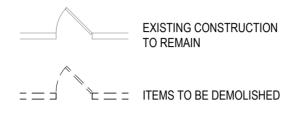


## LEGEND:



AREA OF MTL CEILING TO BE REMOVED / REPLACED, VIF

## **DEMOLITION KEY:**



#### **GENERAL DEMOLITION NOTES:**

- 1. ALL EXG CONDITIONS AND DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO
- CONSTRUCTION. 2. ALL GLAZED BRICK LOCATIONS TO BE STRIPPED OF PAINT.
- 3. REFER TO MEPFP DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 4. REMOVE ALL EXG INTERIOR DOORS, FRAMES & HARDWARE, UNO. 5. REMOVE ALL OVERHEAD INTERIOR LIGHTING, UNO, REF ELEC DWGS, UNO.
- . REMOVE AND STORE ALL EXERCISE EQUIPMENT FOR REINSTALLATION, UNO.
- REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS.
- REMOVE MECHANICAL EQUIPMENT, UNO .; SEE MECHANICAL DWGS, UNO. 9. REMOVE ELECTRICAL FIXTURES/EQUIPMENT, UNO.; SEE ELEC DWGS.
- 10. REMOVE ALL SECURITY SYSTEM EQUIPMENT & ASSOCIATED WIRING, SEE ELEC DWGS.
- 11. REMOVE ALL VEGETATION FROM BUILDING EXTERIOR SURFACES. 12. REMOVE ALL EXG CAST IRON DOWNSPOUT BOOTS.

#### KEYED EXISTING NOTES

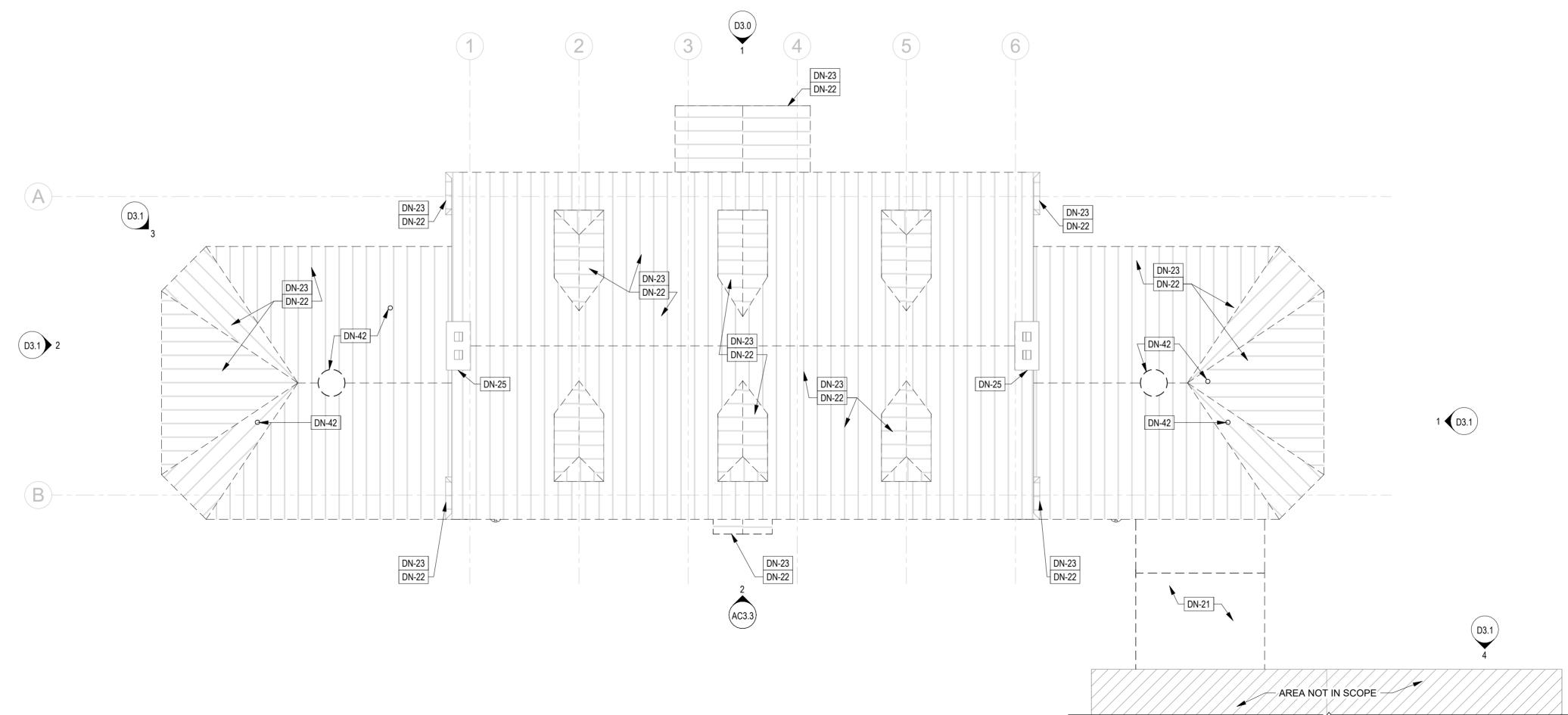
- EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO
- EX-6 EXG WINDOW WELL GRATE.
- EX-8 EXG WALL MURAL TO BE PRESERVED. EX-9 EXG WOODEN CASED OPENINGS TO REMAIN.
- EX-16 EXG MURAL; PROTECT THROUGHOUT DEMOLITION AND CONSTRUCTION

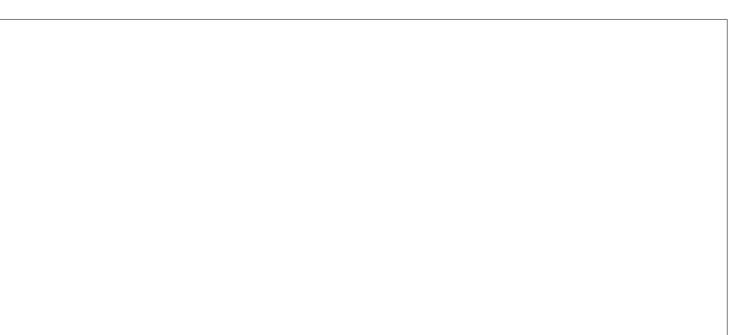
#### KEYED DEMOLITION NOTES

- DN-1 REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS.
- DN-2 REMOVE TOILET PARTITIONS IN ENTIRETY.
- DN-3 REMOVE RESTROOM ACCESSORIES, PATCH AND REPAIR WALL SUBSTRATE AS NEEDED: PREPARE TO RECEIVE NEW INTERIOR FINISHES. DN-4 REMOVE INTERIOR WALL, COORDINATE EXTENT WITH NEW DOOR. PROVIDE TEMPORARY
- BRACING AS NECESSARY, SEE STRUCT DWGS. DN-5 REMOVE EXG KITCHEN SINK, COUNTERTOP AND CASEWORK.
- DN-6 REMOVE FINISH FLOOR AND WALL BASE IN ENTIRETY; PATCH AND REPAIR SUBFLOOR; PREPARE TO RECIEVE NEW INTERIOR FINISHES.
- DN-10 REMOVE COUNTERTOP & ASSOCIATED SUPPORTS.
- DN-11 REMOVE EXG CEILING LIGHT AT PORCH; PREPARE CEILING TO RECEIVE REPLACEMENT LIGHT FIXTURE. DN-12 REMOVE EXG PORCH RAILINGS, TYP.
- DN-14 REMOVE PLYWOOD COVERING ON EXG MASONRY OPENING. PATCH, REPAIR, REPLACE GLAZED BRICK AT JAMB AND HEAD CONDITIONS AS NEEDED. REVIEW CONDITION OF BRICK ONCE EXPOSED WITH A/E PRIOR TO PATCHING, REPAIRING, OR REPLACING.
- DN-15 DEMOLISH CONCRETE STAIR AND MTL RAILING.
- DN-17 REMOVE EXG SECRUITY SCREEN AT BOTH SIDELITES.
- DN-21 REMOVE BREEZEWAY ROOF, COLUMNS, FOOTINGS AND ALL ASSOCIATED STRUCTURE. DN-24 REMOVE CONCRETE PAVING AND CURBS; SEE CIVIL DWGS.
- DN-27 REMOVE EXG WINDOW AC UNITS AND ASSOCIATED METAL FRAMING; PATCH AND REPAIR POINTS OF CONNECTION AT FACE OF EXTERIOR FINISH.
- DN-28 REMOVE EXT WALL INFILL, PROVIDE TEMPORARY BRACING AS NECESSARY, SEE STRUCT DWGS.
- DN-30 REMOVE EXG DOOR HARDWARE ONLY; PREPARE EXISTING DOOR AND FRAME TO RECEIVE NEW HARDWARE.
- DN-31 REMOVE EXG EXTERIOR WOOD DOOR AND HARDWARE ONLY, PREPARE EXISTING FRAME TO RECEIVE NEW DOOR AND HARDWARE.
- DN-32 REMOVE EXG EXTERIOR GYMNASIUM DOOR, FRAME AND HARDWARE.
- DN-33 REMOVE EXG WINDOW / LOUVER.
- DN-34 REMOVE EXG EXHAUST VENT.
- DN-36 REMOVE DETERIORATED PORTION OF EXG MTL CEILING AS INDICATED ON DWGS, VERIFY EXTENT IN FIELD; REVIEW CONDITION OF CEILING WITH A/E PRIOR TO REMOVAL. DN-37 SCRAPE/REMOVE DEBRIS FROM EXG PLASTER WALL & PREP SURFACE FOR REFINISHING DN-41 OWNER TO COORDINATE REMOVAL OF REFRIGERATOR.
- DN-43 REMOVE/REPAIR DAMAGED WOOD CEILING BOARDS, VERIFY EXTENT IN FIELD; REVIEW

REVISIONS ISSUE DATE REVISIONS CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN SEALS **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA PROJECT TITLE **RENOVATIONS TO THE HAPPY** HOLLOW RECREATION CENTER DRAWING TITLE FIRST FLOOR DEMOLITION PLAN

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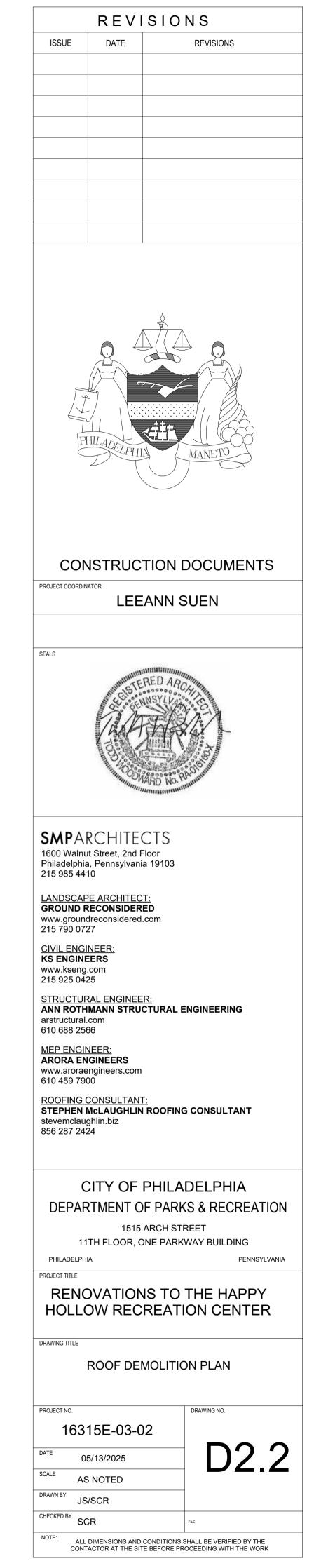
#### GENERAL DEMOLITION NOTES:

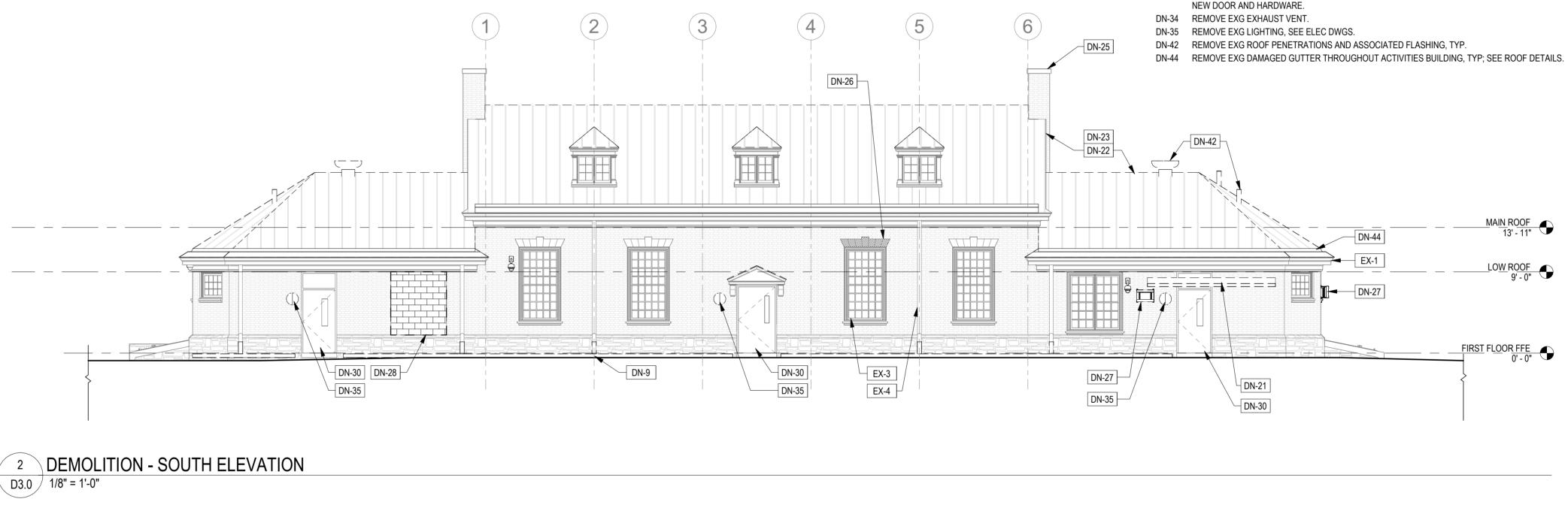
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- REMOVE ALL EXG INTERIOR DOORS, FRAMES & HARDWARE, UNO.
   REMOVE ALL OVERHEAD INTERIOR LIGHTING, UNO, REF ELEC DWGS, UNO.
- 6. REMOVE AND STORE ALL EXERCISE EQUIPMENT FOR REINSTALLATION, UNO.
- REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS.
   REMOVE MECHANICAL EQUIPMENT, UNO.; SEE MECHANICAL DWGS, UNO.
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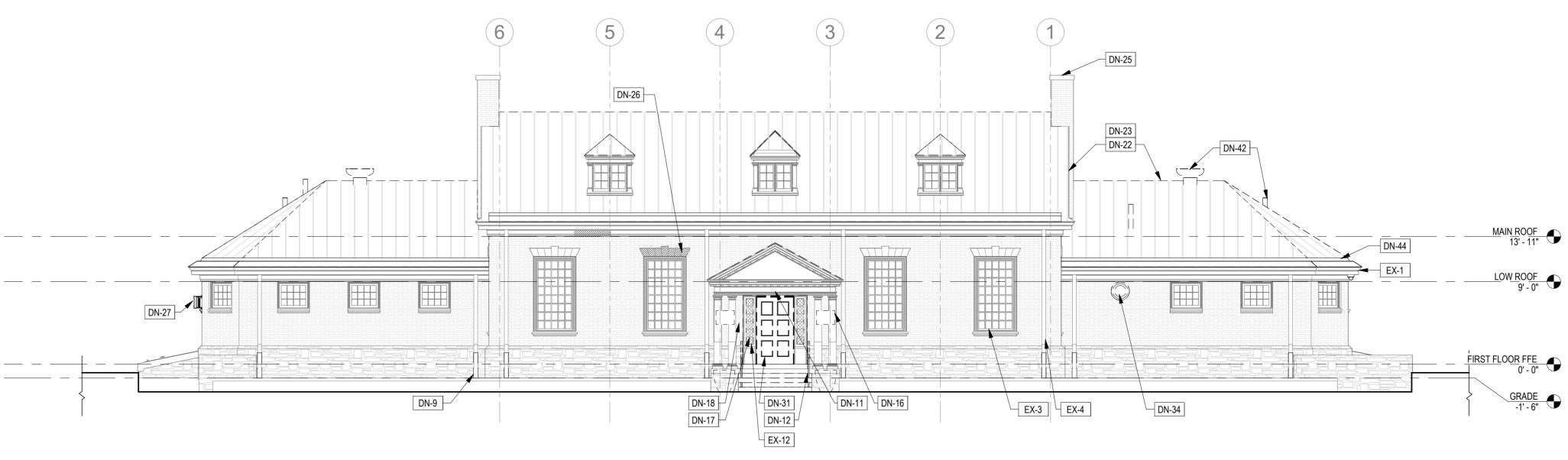
#### KEYED DEMOLITION NOTES

- DN-21 REMOVE BREEZEWAY ROOF, COLUMNS, FOOTINGS AND ALL ASSOCIATED STRUCTURE.
- DN-22 REMOVE EXG STANDING SEAM MTL ROOF DOWN TO SHEATHING, TYP.
- DN-23 PATCH, REPAIR, AND REPLACE EXISTING ROOF SHEATHING AS NEEDED; REVIEW CONDITION OF SHEATHING ONCE EXPOSED WITH A/E PRIOR TO PATCHING, REPAIRING, OR REPLACING. PREPARE SHEATHING TO RECEIVE NEW UNDERLAYMENT, AVB, AND ROOFING PER MANUFACTURER REQUIREMENTS.

- DN-25 REMOVE ALL VEGETATION FROM CHIMNEYS, TYP.
- DN-42 REMOVE EXG ROOF PENETRATIONS AND ASSOCIATED FLASHING, TYP.







## 1 DEMOLITION - NORTH ELEVATION

D3.0 1/8" = 1'-0"

#### GENERAL DEMOLITION NOTES:

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- 5. REMOVE ALL OVERHEAD INTERIOR LIGHTING, UNO, REF ELEC DWGS, UNO.
- 6. REMOVE AND STORE ALL EXERCISE EQUIPMENT FOR REINSTALLATION, UNO. REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS.
- 8. REMOVE MECHANICAL EQUIPMENT, UNO.; SEE MECHANICAL DWGS, UNO.
- 9. REMOVE ELECTRICAL FIXTURES/EQUIPMENT, UNO.; SEE ELEC DWGS. 10. REMOVE ALL SECURITY SYSTEM EQUIPMENT & ASSOCIATED WIRING, SEE ELEC DWGS.
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#### KEYED EXISTING NOTES

- EX-1 EXG WD CORNICE TO REMAIN, TYP, EXCEPT AT LOCATIONS NOTED FOR
- REPLACEMENT. EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO
- EX-4 EXG DOWNSPOUTS TO REMAIN, TYP FOR ALL.
- EX-12 EXG DOOR FRAME & SIDELITES TO REMAIN.

#### KEYED DEMOLITION NOTES

- DN-9 REMOVE EXG CAST IRON DOWNSPOUT BOOT, TYP FOR ALL.
- DN-11 REMOVE EXG CEILING LIGHT AT PORCH; PREPARE CEILING TO RECEIVE REPLACEMENT LIGHT FIXTURE.
- DN-12 REMOVE EXG PORCH RAILINGS, TYP.
- DN-16 REMOVE TIE-STYLE SIGNAGE, TYP.
- DN-17 REMOVE EXG SECRUITY SCREEN AT BOTH SIDELITES. DN-18 REMOVE ALL EXG WALL MOUNTED SIGNAGE NEAR ENTRY DOOR AND RETURN TO OWNER.
- DN-21 REMOVE BREEZEWAY ROOF, COLUMNS, FOOTINGS AND ALL ASSOCIATED STRUCTURE.
- DN-22 REMOVE EXG STANDING SEAM MTL ROOF DOWN TO SHEATHING, TYP.
- DN-23 PATCH, REPAIR, AND REPLACE EXISTING ROOF SHEATHING AS NEEDED; REVIEW CONDITION OF SHEATHING ONCE EXPOSED WITH A/E PRIOR TO PATCHING, REPAIRING, OR REPLACING. PREPARE SHEATHING TO RECEIVE NEW UNDERLAYMENT, AVB, AND ROOFING PER MANUFACTURER REQUIREMENTS.
- DN-25 REMOVE ALL VEGETATION FROM CHIMNEYS, TYP.
- DN-26 REMOVE KEYSTONE PANEL AND STORE FOR REINSTALLATION. DN-27 REMOVE EXG WINDOW AC UNITS AND ASSOCIATED METAL FRAMING; PATCH AND REPAIR POINTS OF
- CONNECTION AT FACE OF EXTERIOR FINISH. DN-28 REMOVE EXT WALL INFILL, PROVIDE TEMPORARY BRACING AS NECESSARY, SEE STRUCT DWGS.
- DN-30 REMOVE EXG DOOR HARDWARE ONLY; PREPARE EXISTING DOOR AND FRAME TO RECEIVE NEW HARDWARE.
- DN-31 REMOVE EXG EXTERIOR WOOD DOOR AND HARDWARE ONLY, PREPARE EXISTING FRAME TO RECEIVE NEW DOOR AND HARDWARE.

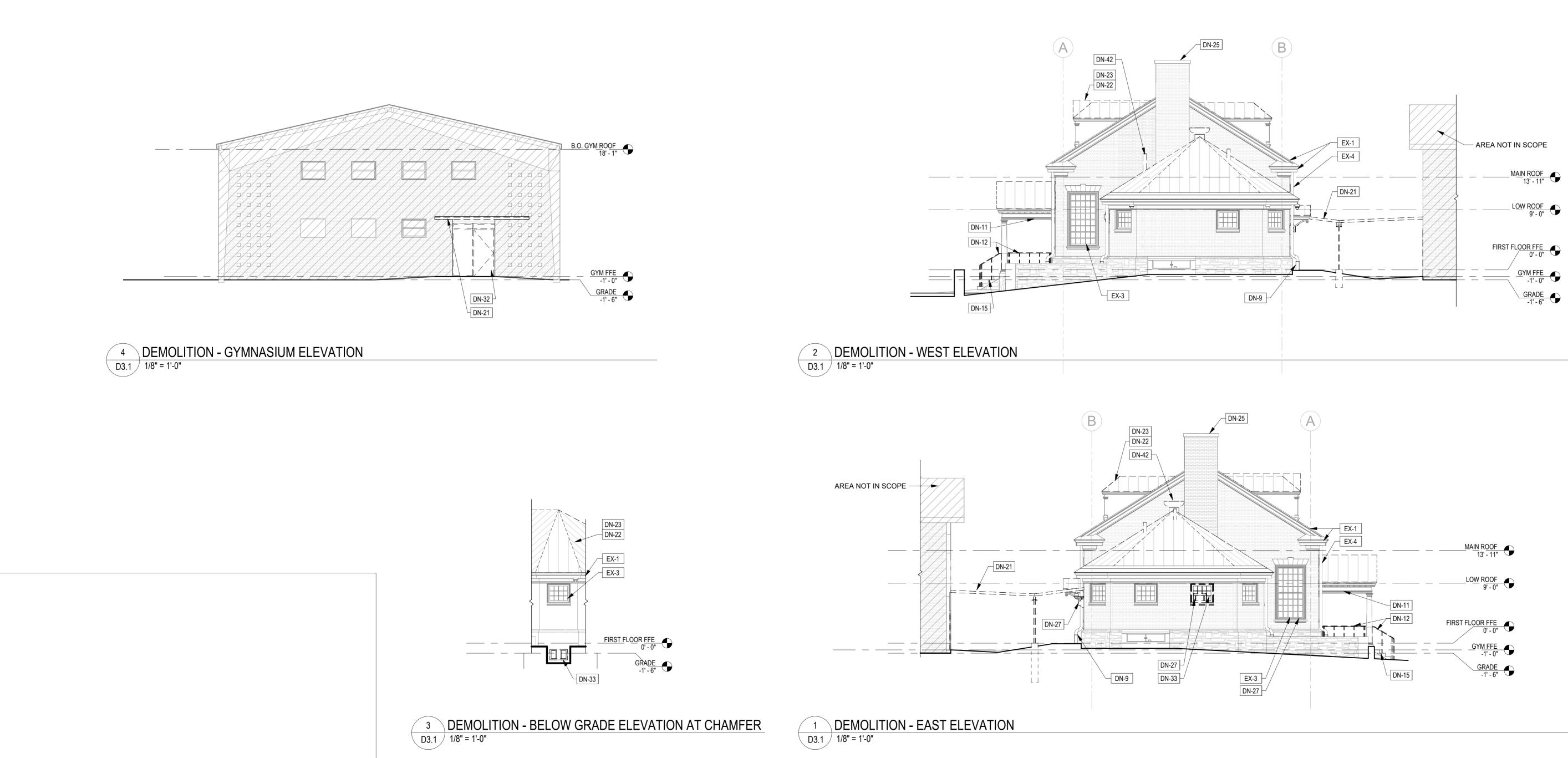
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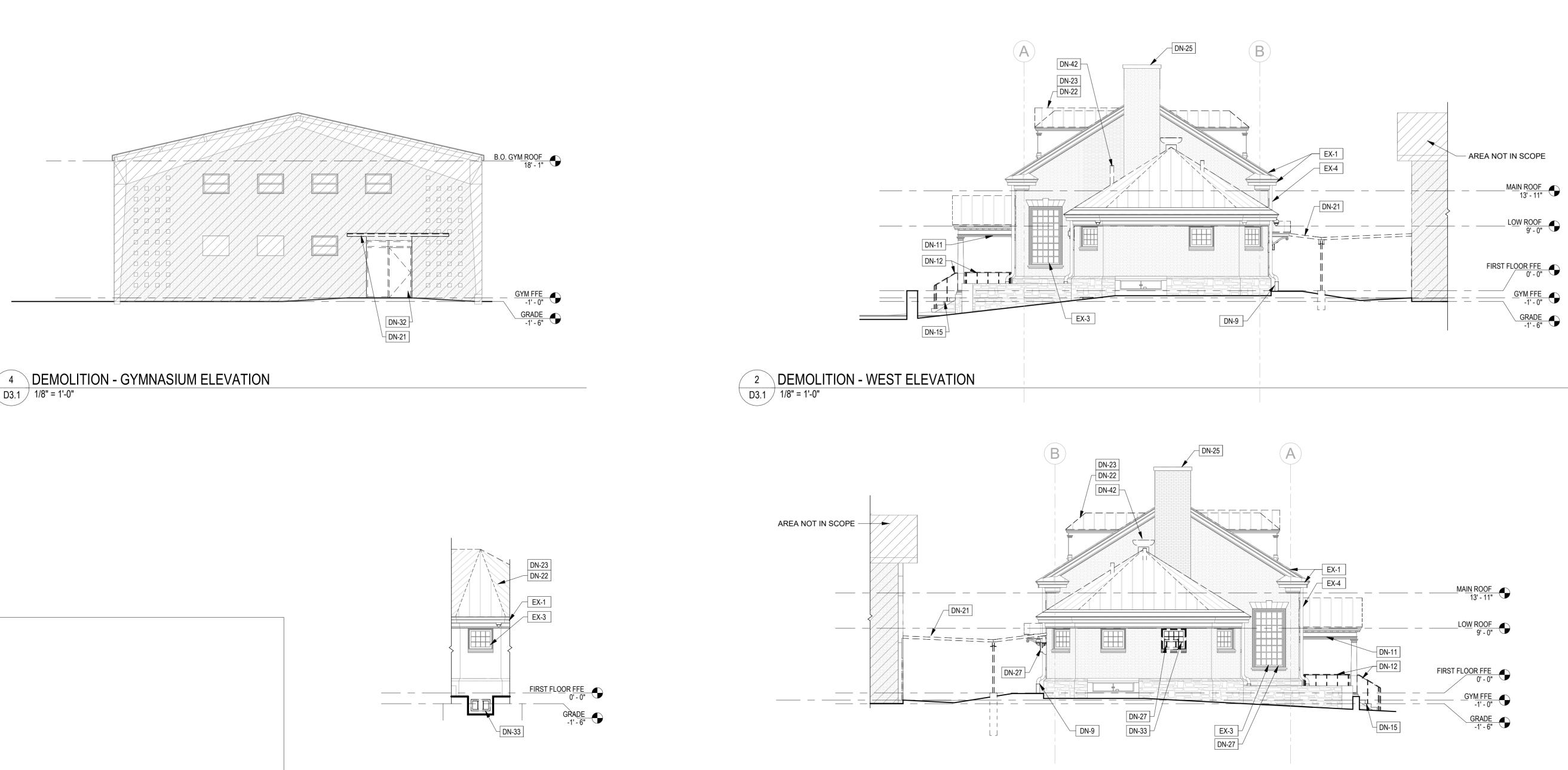
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ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

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NOTE:





LEGEND:

AREA NOT IN SCOPE

#### GENERAL DEMOLITION NOTES:

- 1. ALL EXG CONDITIONS AND DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO
- CONSTRUCTION. 2. ALL GLAZED BRICK LOCATIONS TO BE STRIPPED OF PAINT.
- . REFER TO MEPFP DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS. - 3
- 4. REMOVE ALL EXG INTERIOR DOORS, FRAMES & HARDWARE, UNO. REMOVE ALL OVERHEAD INTERIOR LIGHTING, UNO, REF ELEC DWGS, UNO.
- REMOVE AND STORE ALL EXERCISE EQUIPMENT FOR REINSTALLATION, UNO.
- REMOVE EXG PLUMBING FIXTURES/EQUIPMENT, UNO.; SEE PLUMBING DWGS. 8. REMOVE MECHANICAL EQUIPMENT, UNO.; SEE MECHANICAL DWGS, UNO.
- 9. REMOVE ELECTRICAL FIXTURES/EQUIPMENT, UNO.; SEE ELEC DWGS. 10. REMOVE ALL SECURITY SYSTEM EQUIPMENT & ASSOCIATED WIRING, SEE ELEC DWGS.
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## KEYED EXISTING NOTES

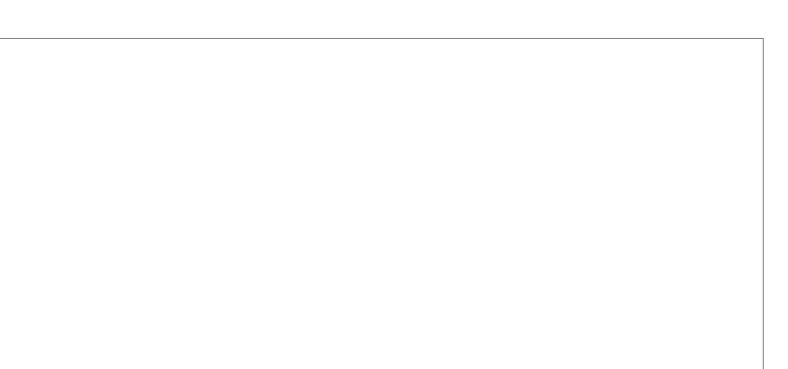
- EX-1 EXG WD CORNICE TO REMAIN, TYP, EXCEPT AT LOCATIONS NOTED FOR
- REPLACEMENT. EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO
- EX-4 EXG DOWNSPOUTS TO REMAIN, TYP FOR ALL.

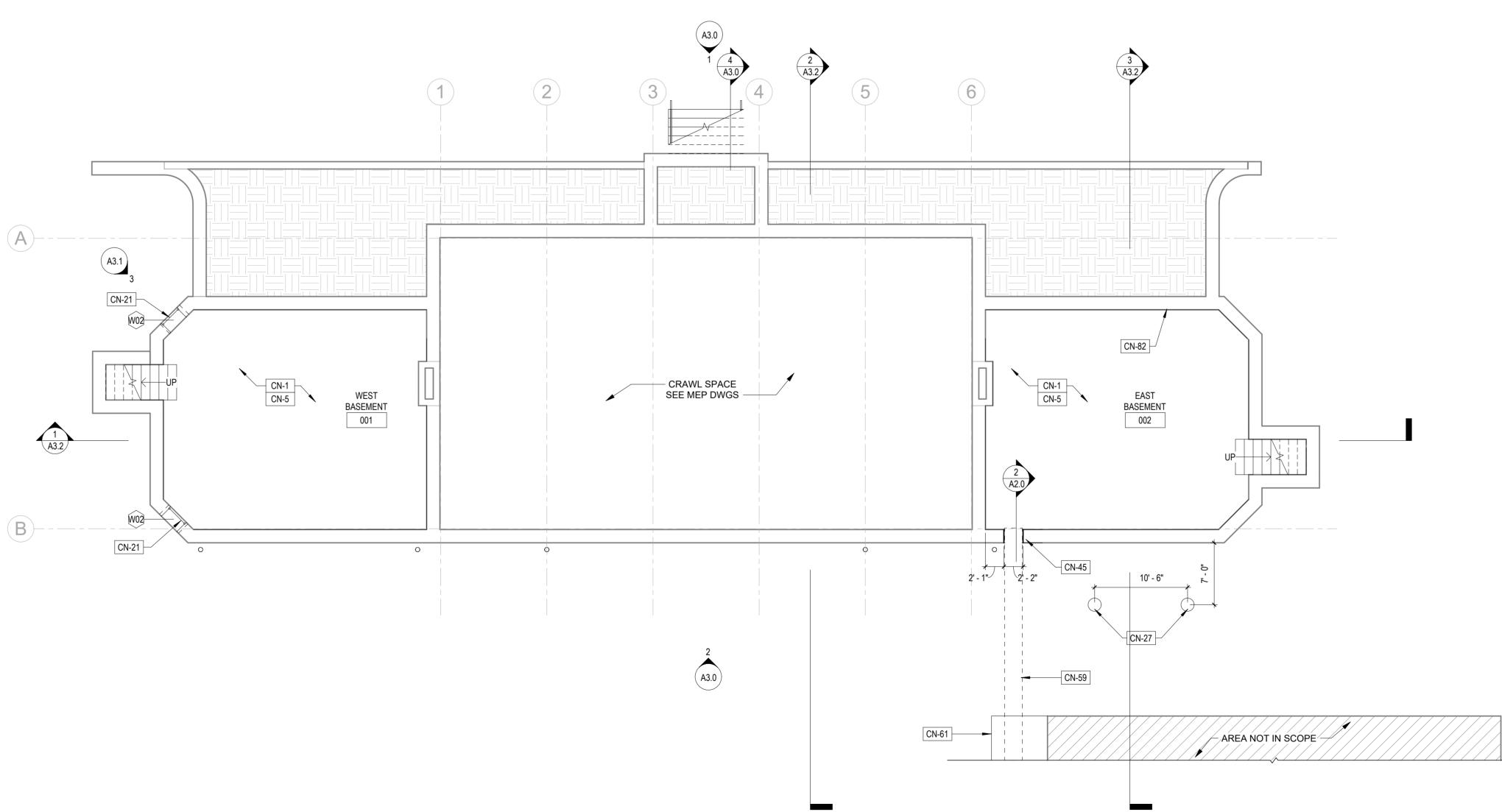
### KEYED DEMOLITION NOTES

- DN-9 REMOVE EXG CAST IRON DOWNSPOUT BOOT, TYP FOR ALL.
- DN-11 REMOVE EXG CEILING LIGHT AT PORCH; PREPARE CEILING TO RECEIVE REPLACEMENT LIGHT FIXTURE.
- DN-12 REMOVE EXG PORCH RAILINGS, TYP.
- DN-15 DEMOLISH CONCRETE STAIR AND MTL RAILING.
- DN-21 REMOVE BREEZEWAY ROOF, COLUMNS, FOOTINGS AND ALL ASSOCIATED STRUCTURE. DN-22 REMOVE EXG STANDING SEAM MTL ROOF DOWN TO SHEATHING, TYP.
- DN-23 PATCH, REPAIR, AND REPLACE EXISTING ROOF SHEATHING AS NEEDED; REVIEW CONDITION OF SHEATHING ONCE EXPOSED WITH A/E PRIOR TO PATCHING, REPAIRING, OR REPLACING. PREPARE SHEATHING TO RECEIVE NEW UNDERLAYMENT, AVB, AND ROOFING PER MANUFACTURER REQUIREMENTS.
- DN-25 REMOVE ALL VEGETATION FROM CHIMNEYS, TYP.
- DN-27 REMOVE EXG WINDOW AC UNITS AND ASSOCIATED METAL FRAMING; PATCH AND REPAIR POINTS OF CONNECTION AT FACE OF EXTERIOR FINISH. DN-32 REMOVE EXG EXTERIOR GYMNASIUM DOOR, FRAME AND HARDWARE.
- DN-33 REMOVE EXG WINDOW / LOUVER.
- DN-42 REMOVE EXG ROOF PENETRATIONS AND ASSOCIATED FLASHING, TYP.

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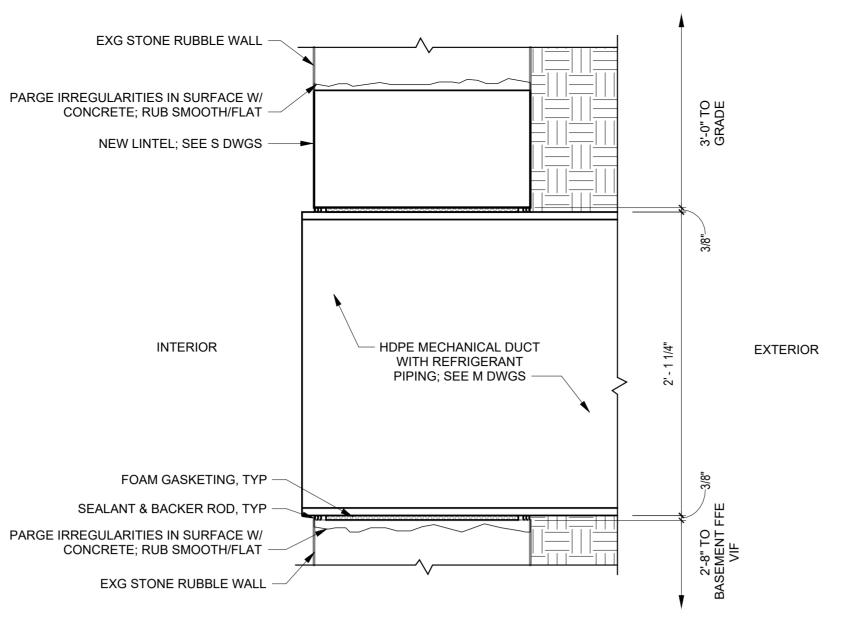




MECH DUCT PENETRATION DETAIL

EXG STONE RUBBLE WALL —

INTERIOR



LEGEND:



AREA NOT IN SCOPE

## **GENERAL NOTES:**

- FINISHES.
- SMOOTH/CONSISTENT FINISH.
- REPAINTING.
- SMOOTH/CONSISTENT FINISH.
- U.N.O.; SEE DOOR SCHEDULE.

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- 15. ALL PAINTED SURFACES TO BE REPAINTED UNO.
- KEYED CONSTRUCTION NOTES
- CN-61 NEW EQUIPMENT PAD, SEE STRUCT DWGS.

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW 5. ALL EXG AND NEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. 7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

8. ALL EXG INTERIOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

9. REPLACE ALL INTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE

 REFER TO MEPFP DRAWINGS FOR ADDITIONAL INFO.
 REFER TO STRUC DRAWINGS FOR LOCATIONS OF NEW AND EXISTING STRUCTURE. 12. REFER TO LANDSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT.

13. PATCH AND REPAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES , TYP. 14. ALL DOWNSPOUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT.

CN-1 PROVIDE NEW PLUMBING EQUIPMENT & ACCESSORIES; SEE PLUMBING DWGS.

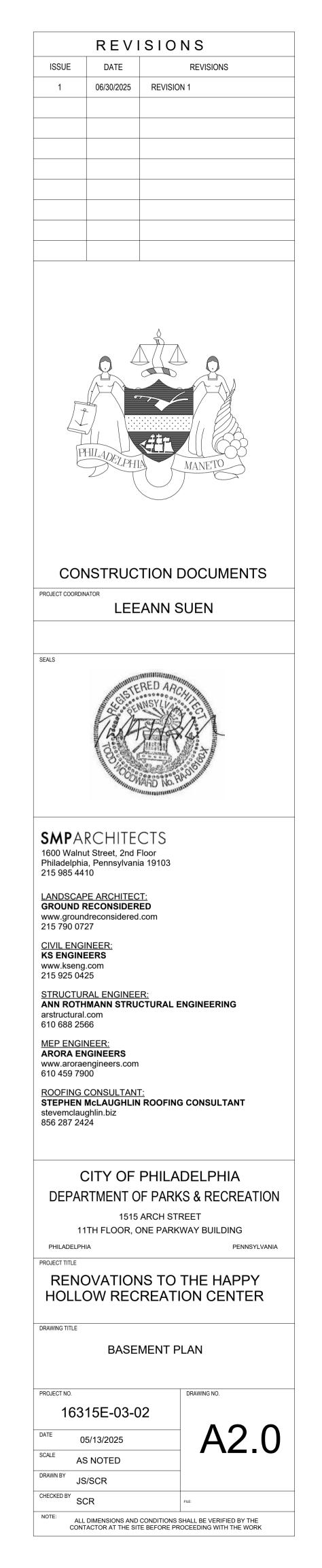
CN-5 PROVIDE NEW MECH EQUIPMENT, TYP, SEE MECH DWGS.

CN-21 PROVIDE NEW WINDOW TO MATCH EXG, SEE WINDOW TYPES AND DETAILS. CN-27 PROVIDE NEW BREEZEWAY COLUMNS AND FOOTINGS; SEE S DWGS.

CN-45 PROVIDE NEW PENETRATION IN FOUNDATION WALL FOR NEW HVAC REFRIGERANT LINE, REF MECH DWGS.

CN-59 PROVIDE NEW UNDERGROUND REFRIGERANT PIPING IN HDPE CONDUIT, SEE MECH DWGS.

CN-82 NEW DOMESTIC WATER UTILITY CONNECTION THROUGH EXISTING FOUNDATION WALL, SEE CIVIL AND PLUMBING DWGS; COORDINATE WITH MEP EQUIPMENT AND CONSULT ARCHITECT TO DETERMINE LOCATION



INTERIOR	INTERIOR PARTITION TYPES					
TYPE	DESCRIPTION	HEIGHT	FIRE RATING UL NO.	STC RATING	DETAIL	SPECIFICATION
< <u>P1</u> >	4" CMU PARTITION	B.O. EXG CEILING JOISTS (+/- 10'-0" VIF)	-	-		NOM 4" CMU WITH 3
$\langle \widehat{P2} \rangle$	9" BRICK WALL	B.O. EXG CEILING JOISTS (+/- 10'-0" VIF)	-	-	б Д////////////////////////////////////	2 WYTHE BRICK WA
<p3></p3>	4 1/2" MTL STUD FURRING WITH GLAZED BRICK	B.O. EXG CEILING JOISTS (+/- 10'-0" VIF)	-	-		5/8" GWB, 3 5/8" MTL 5/8" GLAZED BRICK

NOTES:

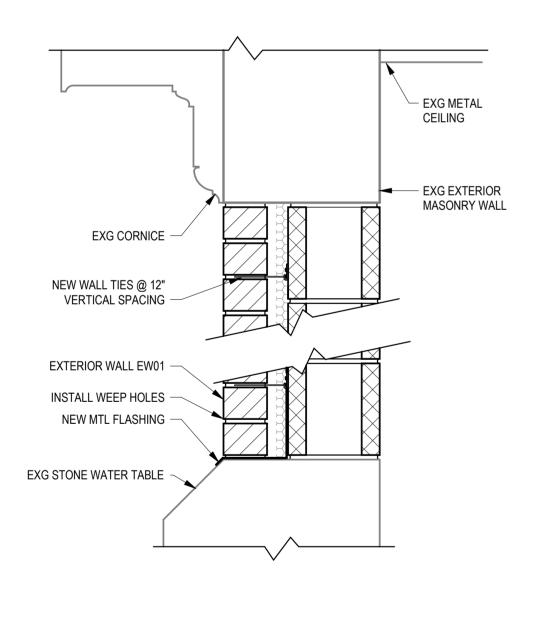
1. PROVIDE CONTINUOUS NON-HARDENING SEALANT AROUND PERIMETER OF INTERIOR WALL BETWEEN ADJACENT WALLS, CEILINGS, AND STRUC.

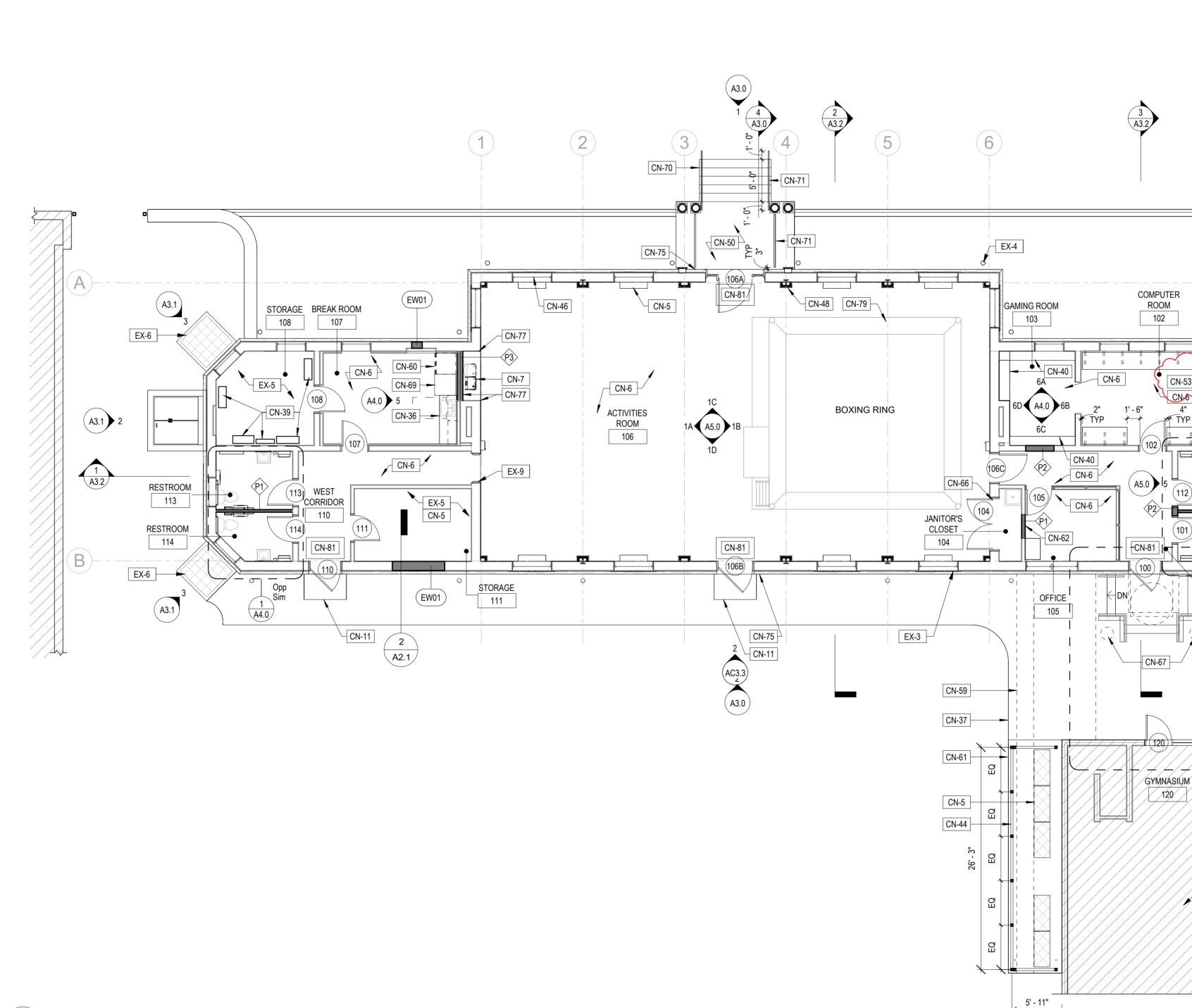
EXTERIOR WALL TYPES				
TYPE	DESCRIPTION	CODE REQ'D INSUL MIN. R- VALUE	DETAIL	SPECIFICATION
EW01	13" MASONRY INFILL	NO EXG WALL INSULATION, PER IECC 810.1 NO ADDITIONAL INSULATION IS REQD. FOR REPAIR ESTIMATED R-VALUE R3.4 (Open)/R7.1 (Closed)		NOM 4" BRICK VENEER W FLEMISH BOND; ALIGN FI CONSTRUCTION & ALIGN BRICK PATTERN WITH EX BLOCK, MIN 3/4" AIR SPACE, 1" SPRAY FOAM INSUL, MORTAR JOINTS.
NOTEO				

FIRST FLOOR

A2.1 1/8" = 1'-0"

NOTES: 1. REFER TO STRUC DWGS FOR MASONRY / REINFORCEMENT REQUIREMENTS AND DETAILS. 2. ALL EXTERIOR MASONRY WALLS TO HAVE THERMALLY BROKEN TIES / ANCHORS.







	KEYED EXISTING NOTES	<u>GENERAL NO</u>
	<ul> <li>EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO</li> <li>EX-4 EXG DOWNSPOUTS TO REMAIN, TYP FOR ALL.</li> <li>EX-5 EXG FINISH FLOOR TO REMAIN.</li> <li>EX-6 EXG WINDOW WELL GRATE.</li> </ul>	1. FILL VOIDS AROU AND SEAL AROU 2. WHEN ARCHITEC CONTROLS, ETC
1 3/8" MORTAR.	EX-9 EXG WOODEN CASED OPENINGS TO REMAIN.	<ol> <li>LOCATE INTERIC SPECIFICATIONS</li> <li>PROVIDE CEMEN FINISHES.</li> </ol>
VALL WITH GLAZED FACING; MATCH EXG CONDITIONS.	PLAN KEY:	<ol> <li>ALL EXG AND NE SMOOTH/CONSIS</li> <li>ALL EXG INT GLA</li> <li>ALL INTERIOR GLA</li> </ol>
TL STUDS @ 16 O.C., 5/8 CONCRETE BACKERBOARD, 3 K ANCHORED WITH TIES TO MTL STUDS	EXISTING CONSTRUCTION TO REMAIN NEW CONSTRUCTION	PROVIDE SMOOT REPAINTING. 8. ALL EXG INTERIO SMOOTH/CONSIS 9. REPLACE ALL IN U.N.O.; SEE DOO
	NEW CONSTRUCTION	10. REFER TO MEPF 11. REFER TO STRUE 12. REFER TO LANDS 13. PATCH AND REPA 14. ALL DOWNSPOU 15. ALL PAINTED SU
	KEYED CONSTRUCTION NOTES	KEYED CONST
	<ul> <li>CN-5 PROVIDE NEW MECH EQUIPMENT, TYP, SEE MECH DWGS.</li> <li>CN-6 PROVIDE NEW RESILIENT FLOOR &amp; BASE, REFER TO FINISH PLAN FOR MORE INFORMATION.</li> <li>CN-7 PROVIDE NEW ACCESSIBLE DRINKING FOUNTAIN AND BOTTLE FILLING STATION.</li> </ul>	CN-60 NEW REFRIG ON-61 NEW EQUIPM CN-62 PROVIDE NE
INISH FACES WITH EXG (G, MASONRY TIES TO CMU ., NOM 8" CMU WITH 3/8"	<ul> <li>CN-11 PROVIDE NEW CONCRETE LANDING; REFER TO CIVIL DRAWINGS.</li> <li>CN-36 PROVIDE NEW STAINLESS STEEL SINK, BASE CABINETS AND WALL CABINETS.</li> <li>CN-37 PROVIDE NEW CONCRETE PAVING, SEE CIVIL &amp; LANDSCAPE DWGS.</li> <li>CN-39 PROVIDE NEW ELEC EQUIPMENT/SYSTEMS; SEE ELEC DWGS.</li> <li>CN-40 PROVIDE NEW CONSOLE AND WALL CLOSET.</li> <li>CN-44 PROVIDE NEW PERFORATED ALUMINUM FENCING, ANCHORED TO PAD BELOW; COORD WITH STRUCTURE BE</li> </ul>	CN-66 PROVIDE 2- CN-66 PROVIDE 2- CN-67 PROVIDE NE CN-69 PROVIDE NE CN-70 PROVIDE NE CN-70 PROVIDE NE
	CN-44 PROVIDE NEW PERFORATED ALLOMINUM FENCING, ANCHORED TO PAD BELOW; COORD WITH STRUCTURE B CN-46 REPAIR EXG WINDOW TO ALLOW FOR NORMAL OPERATION.	CN-75 NEW BUILDI

CN-48 PROVIDE NEW WD BASE AT WD PILASTER, TYP FOR ALL, MATCH EXG.

CN-53 PROVIDE NEW QUARTZ COUNTERTOP AND SUPPORTING BRACKETS AT 30" O.C.

CN-59 PROVIDE NEW UNDERGROUND REFRIGERANT PIPING IN HDPE CONDUIT, SEE MECH DWGS.

CN-50 REPOINT BRICK FLOORING.

#### IOTES:

UND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION UND THE OPENING WITH ACOUSTIC SEALANT.

ECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. RIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN S. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

NTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW IEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

SISTENT FINISH. LAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO TH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

NOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

SISTENT FINISH. NTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE OR SCHEDULE.

FP DRAWINGS FOR ADDITIONALINFO. JC DRAWINGS FOR LOCATIONS OF NEW AND EXISTING STRUCTURE.

DSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT. PAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES , TYP. DUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT.

SURFACES TO BE REPAINTED UNO.

TRUCTION NOTES

GERATOR BY OTHERS. PMENT PAD, SEE STRUCT DWGS

NEW ANCHOR INFILL MASONRY WITH HOHMAN & BARNARD SLIP-SET STABLIZER ANCHORS @ 32" VERTICAL SEE STRUCT DWGS.

2-C8 X 11.5 LINTELS, SEE STRUCT DWGS. NEW FOUNDATION AND COLUMNS, SEE STRUCT DWGS.

NEW REFRIGERATOR.

NEW CAST IN PLACE STAIR.

NEW 36" HANDRAILS, TYP AT EITHER SIDE OF ENTRANCE STAIRS AND PORCH.

4 A5.1

CN-83

A4 0

CN-53

EAST

CORRIDOR

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AREA NOT IN SCOPE

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REMEAINING WORK; COORDINATE

DEMOLITION AND CONSTRUCTION

1 **(** A3.1 )

- NOTE: COORDINATE DEMOLITION

BREEZEWAY AND ASSOCIATED

AFFECTS TO USE AND ACCESS

AND CONSTRUCTION OF THE

COMPONENTS TO MINIMIZE

OF THE GYMNASIUM

RESTROOM

112

RESTROOM

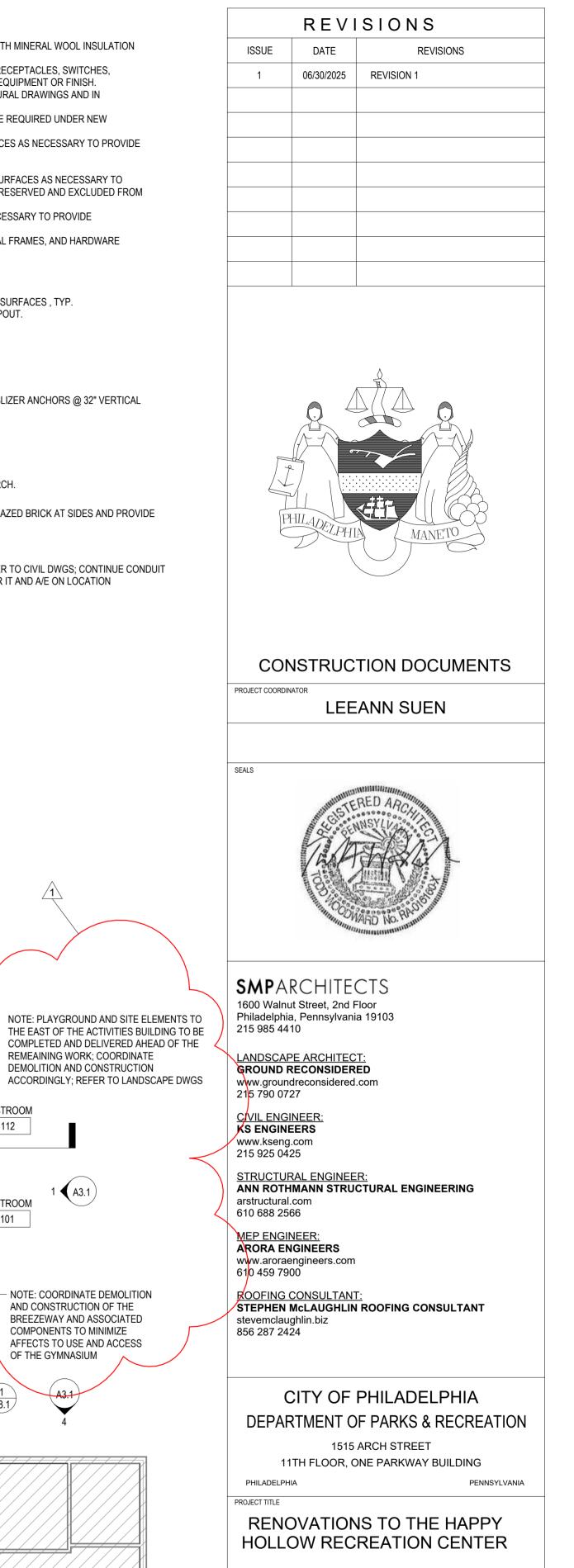
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A8.1

DING MTD SIGN BID.1, REF PPR SIGNAGE STANDARD MANUAL. CN-77 NEW GLAZED BRICK TO MATCH EXG, REFER TO PARTITION TYPES; RETURN NEW GLAZED BRICK AT SIDES AND PROVIDE RADIUS EDGE AT OUTSIDE CORNER.

CN-79 PROVIDE NEW BOXING RING, ACCESSORIES, AND WOODEN PLATFORM

CN-81 NEW ENTRANCE MAT CN-83 PROVIDE NEW DATA CONDUIT; TIE INTO CONDUIT ENTERING INTO BASEMENT, REFER TO CIVIL DWGS; CONTINUE CONDUIT ABOVE CEILING AND ALONG BREEZEWAY INTO GYMNASIUM; CONSULT WITH OWNER IT AND A/E ON LOCATION



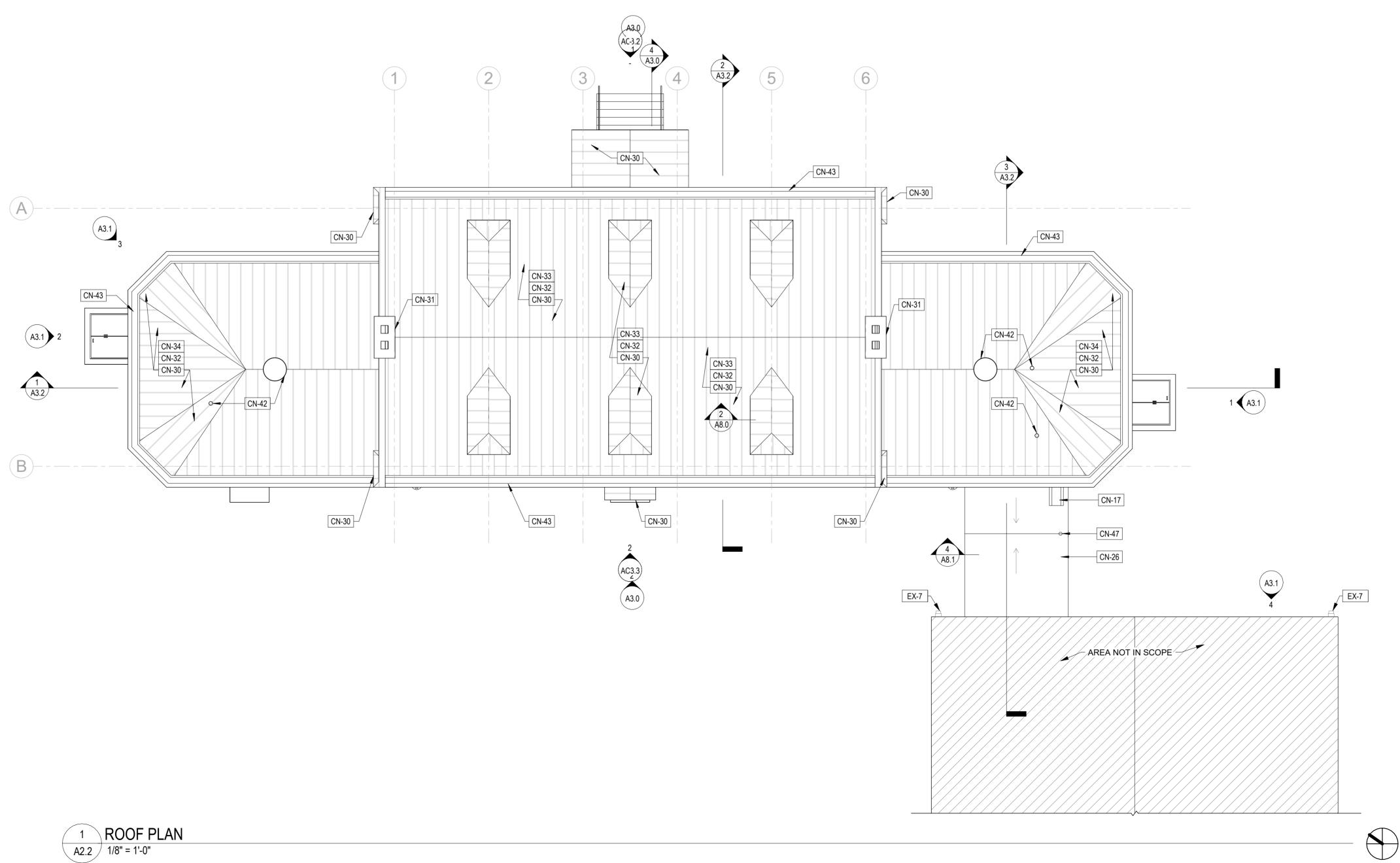
## DRAWING TITLE

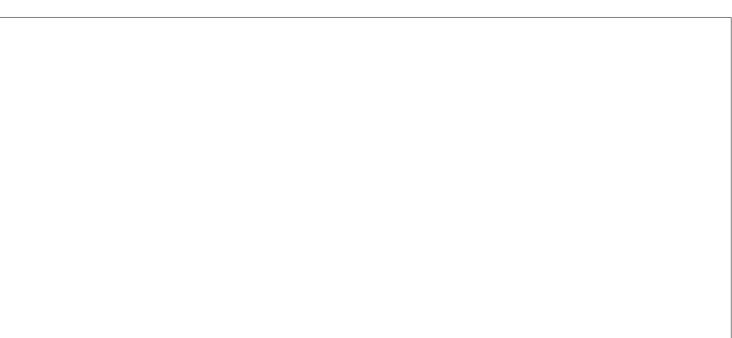
### FLOOR PLAN, EXTERIOR & INTERIOR WALL TYPES

PROJECT NO. DRAWING NO. 16315E-03-02 A2.1 DATE 05/13/2025 SCALE AS NOTED DRAWN BY JS/SCR CHECKED BY SCR

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

NOTE:







#### KEYED EXISTING NOTES

EX-7 EXG EXTERIOR LIGHT TO REMAIN, NOT IN SCOPE.

## LEGEND:



#### **GENERAL NOTES:**

- FINISHES.
- SMOOTH/CONSISTENT FINISH.
- REPAINTING.
- U.N.O.; SEE DOOR SCHEDULE.

CN-30 PROVIDE NEW STANDING SEAM MTL ROOF.

DWGS

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW 5. ALL EXG AND NEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. 7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

8. ALL EXG INTERIOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

SMOOTH/CONSISTENT FINISH. 9. REPLACE ALL INTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE

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12. REFER TO LANDSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT. 13. PATCH AND REPAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES , TYP.

14. ALL DOWNSPOUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT. 15. ALL PAINTED SURFACES TO BE REPAINTED UNO.

## KEYED CONSTRUCTION NOTES

CN-17 PROVIDE NEW CONCRETE SPLASH PAD BENEATH DOWNSPOUT.

CN-26 PROVIDE NEW BREEZEWAY ROOF DECKING AND ROOF MEMBRANE; SEE STRUCT DWGS.

CN-31 CAP CHIMNEY WITH CAST STONE SLAB WITH DRIP EDGE, EXTEND BEYOND MASONRY AT LEAST 4".

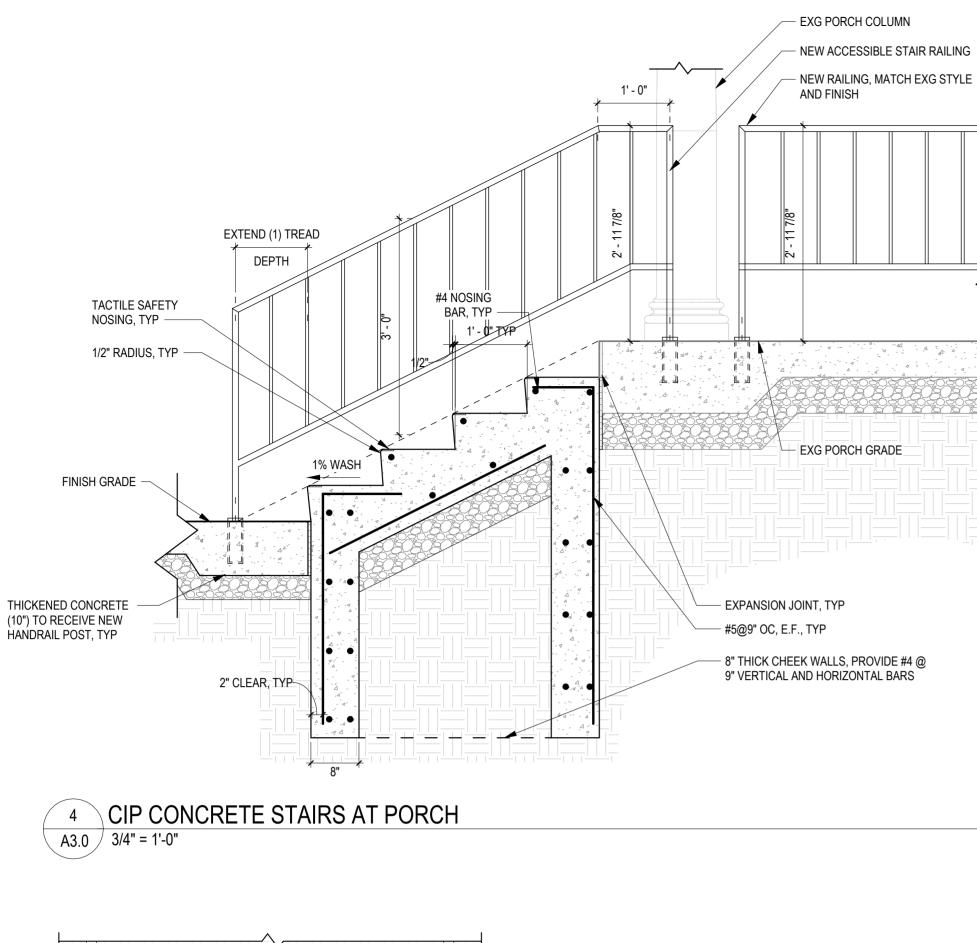
CN-32 PROVIDE NEW ROOF SHEATHING WHERE EXISTING SHEATHING WAS REMOVED.

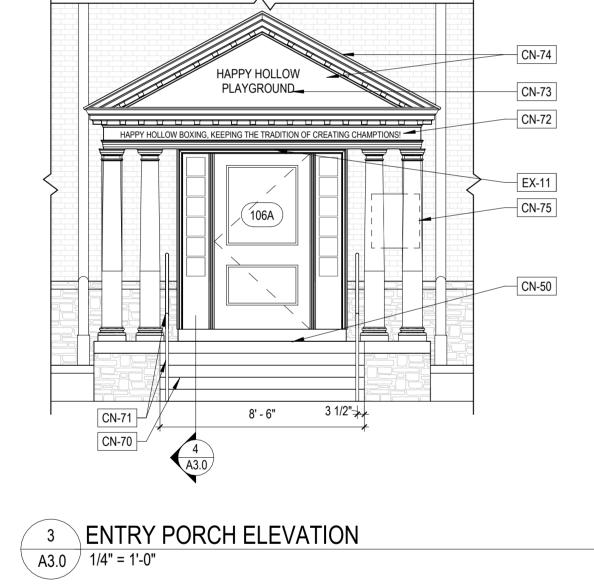
CN-33 PROVIDE NEW BLOW-IN MINERAL WOOL INSULATION BETWEEN EXG 3X6 RAFTERS, TYP THROUGHOUT HIGH ROOF. CN-34 PROVIDE R-30 MINERAL WOOL BATT INSULATION AT LOW ROOFS.

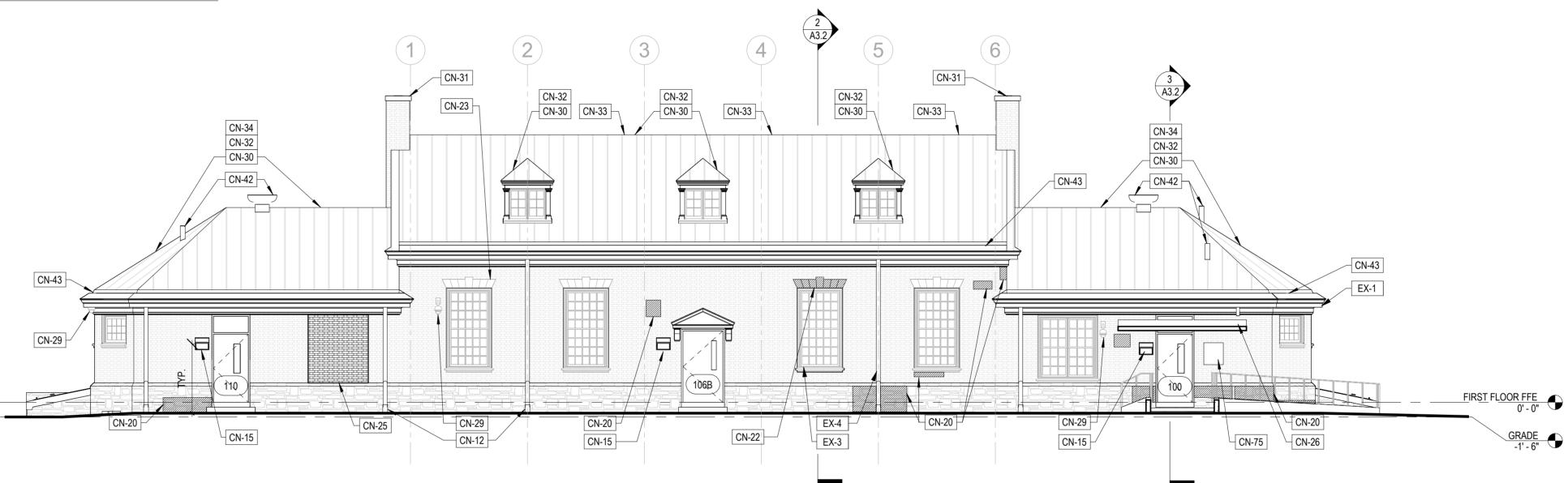
CN-42 PROVIDE NEW ROOF VENT AND EXHAUST VENTILATOR IN EXG LOCATIONS, SEE PLUMBING & MECHANICAL DWGS.

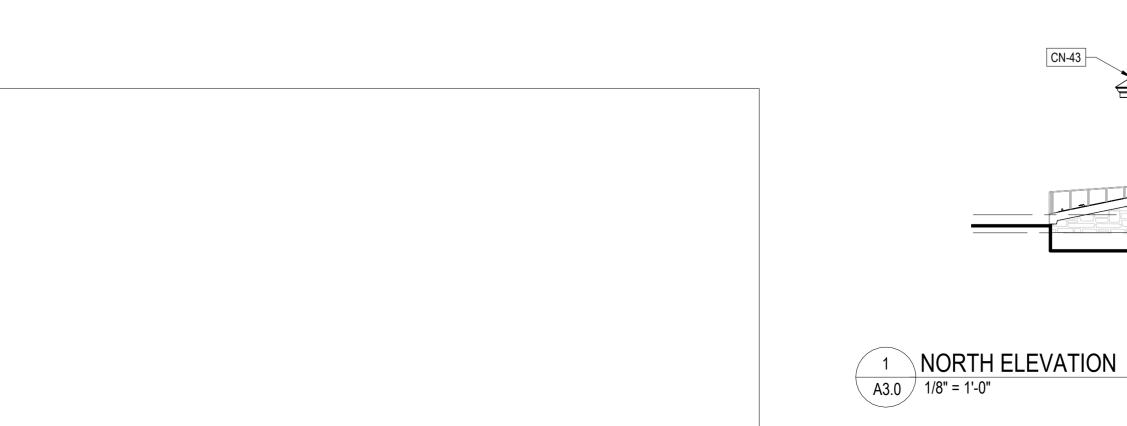
CN-43 RECONSTRUCT INTEGRATED GUTTER THROUGHOUT ACTIVITIES BUILDING; SEE ROOF DETAILS. CN-47 PROVIDE NEW ROOF DRAIN WITH DRAIN GUARD, DOWNSPOUT & BOOT. NEW STORMWATER CONNECTION, SEE CIVIL

ISSUE		
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stevemclaug 856 287 242 C DEPAF	RTMENT O 1515 TH FLOOR, C	PHILADELPHIA F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING
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Stevemclaug 856 287 242 DEPAR 11 PHILADELPHI PROJECT TITLE RENC	RTMENT O 1515 TH FLOOR, C	F PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA
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Stevemclaug 856 287 242	RTMENT O 1515 TH FLOOR, C A OVATION OVATION OW REC RO 15E-03-0 5/13/2025	OF PARKS & RECREATION ARCH STREET DNE PARKWAY BUILDING PENNSYLVANIA AS TO THE HAPPY REATION CENTER OF PLAN









#### **GENERAL NOTES:**

- FINISHES.
- SMOOTH/CONSISTENT FINISH.
- REPAINTING.
- SMOOTH/CONSISTENT FINISH.
- U.N.O.; SEE DOOR SCHEDULE.
- 15. ALL PAINTED SURFACES TO BE REPAINTED UNO.
- LEGEND:

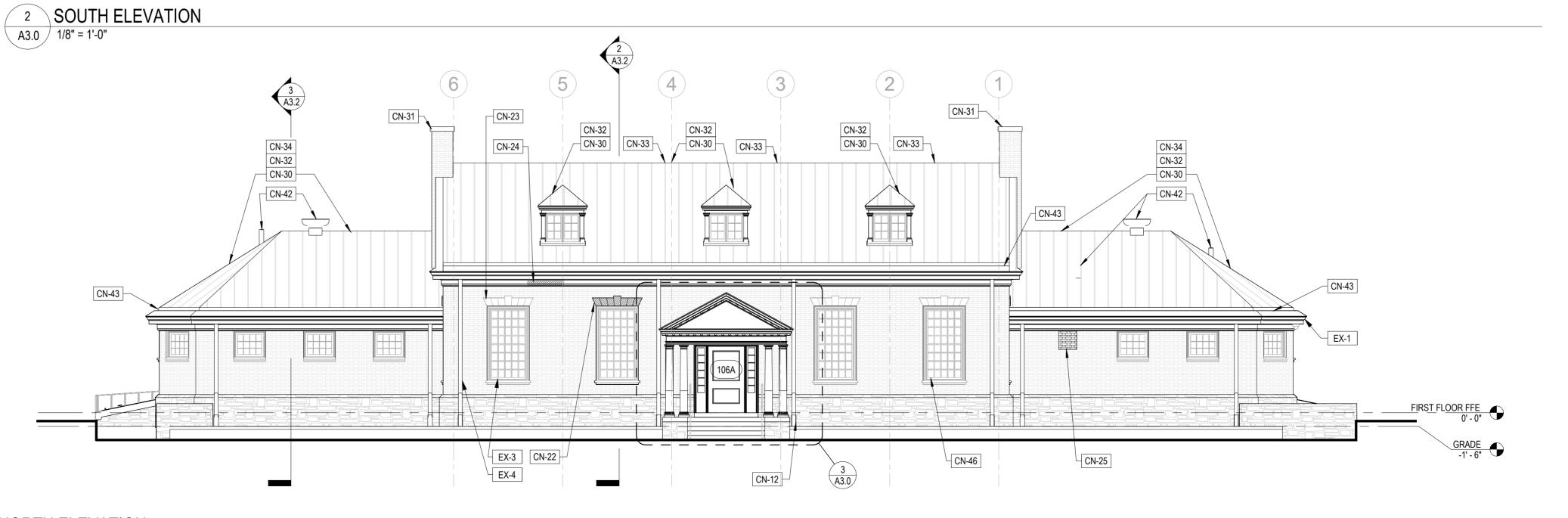
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- EX-1 EXG WD CORNICE TO REMAIN, TYP, EXCEPT AT LOCATIONS NOTED FOR
- REPLACEMENT. EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO
- EX-4 EXG DOWNSPOUTS TO REMAIN, TYP FOR ALL.
- EX-11 EXG CEILING LIGHT AT ENTRANCE PORCH TO REMAIN.

#### **KEYED CONSTRUCTION NOTES**

- CN-12 PROVIDE NEW CAST IRON DOWNSPOUT BOOTS, TYP, SEE PLUMBING DWGS.
- CN-15 PROVIDE NEW EXT LIGHTING, SEE ELEC DWGS. CN-20 REPOINT MASONRY, VERIFY EXTENTS IN FIELD.
- CN-22 PREPARE KEYSTONE PANEL AREA FOR REINSTALLATION AND REINSTALL KEYSTONE PANEL, USE APPROPRIATE
- SEALANTS.
- CN-23 PAINT EXG KEYSTONE PANEL, TYP. CN-24 REPLACE / REPAIR/PATCH DAMAGE / DETERIORATED EXTERIOR WOOD TRIM TO MATCH EXG.
- CN-25 PROVIDE NEW EXTERIOR WALL INFILL, WITH FINISH FACE TO MATCH EXG.
- CN-26 PROVIDE NEW BREEZEWAY ROOF DECKING AND ROOF MEMBRANE; SEE STRUCT DWGS.
- CN-29 PROVIDE NEW SECURITY CAMERA, SEE ELEC DWGS. CN-30 PROVIDE NEW STANDING SEAM MTL ROOF.
- CN-31 CAP CHIMNEY WITH CAST STONE SLAB WITH DRIP EDGE, EXTEND BEYOND MASONRY AT LEAST 4".
- PROVIDE NEW ROOF SHEATHING WHERE EXISTING SHEATHING WAS REMOVED. CN-32
- CN-33 PROVIDE NEW BLOW-IN MINERAL WOOL INSULATION BETWEEN EXG 3X6 RAFTERS, TYP THROUGHOUT HIGH ROOF. CN-34
- PROVIDE R-30 MINERAL WOOL BATT INSULATION AT LOW ROOFS. CN-42 PROVIDE NEW ROOF VENT AND EXHAUST VENTILATOR IN EXG LOCATIONS, SEE PLUMBING & MECHANICAL DWGS.
- CN-43 RECONSTRUCT INTEGRATED GUTTER THROUGHOUT ACTIVITIES BUILDING: SEE ROOF DETAILS.
- CN-46 REPAIR EXG WINDOW TO ALLOW FOR NORMAL OPERATION.
- CN-50 REPOINT BRICK FLOORING.
- CN-70 PROVIDE NEW CAST IN PLACE STAIR. CN-71 PROVIDE NEW 36" HANDRAILS, TYP AT EITHER SIDE OF ENTRANCE STAIRS AND PORCH.
- CN-72 PREP AND PAINT EXG SURFACE, PROVIDE NEW SIGNAGE TO MATCH EXG.
- CN-73 RE-ATTACH SALVAGED SIGNAGE AFTER PAINTING.
- CN-74 PAINT PEDIMENT, COLUMNS, DOORS, AND FRAMES TO MATCH EXG, TYP. CN-75 NEW BUILDING MTD SIGN BID.1, REF PPR SIGNAGE STANDARD MANUAL.



1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

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6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. 7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

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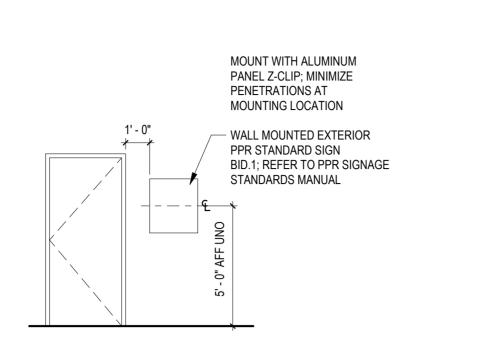
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AREA NOT IN SCOPE

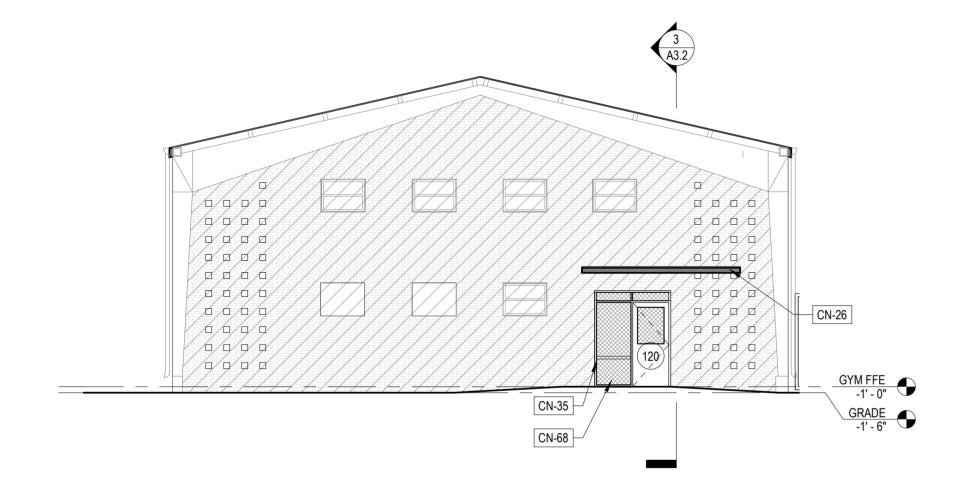
AREA OF GENERAL REPAIR; SEE CN NOTES

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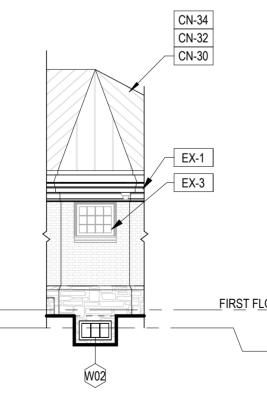














FINISHES.

REPAINTING.

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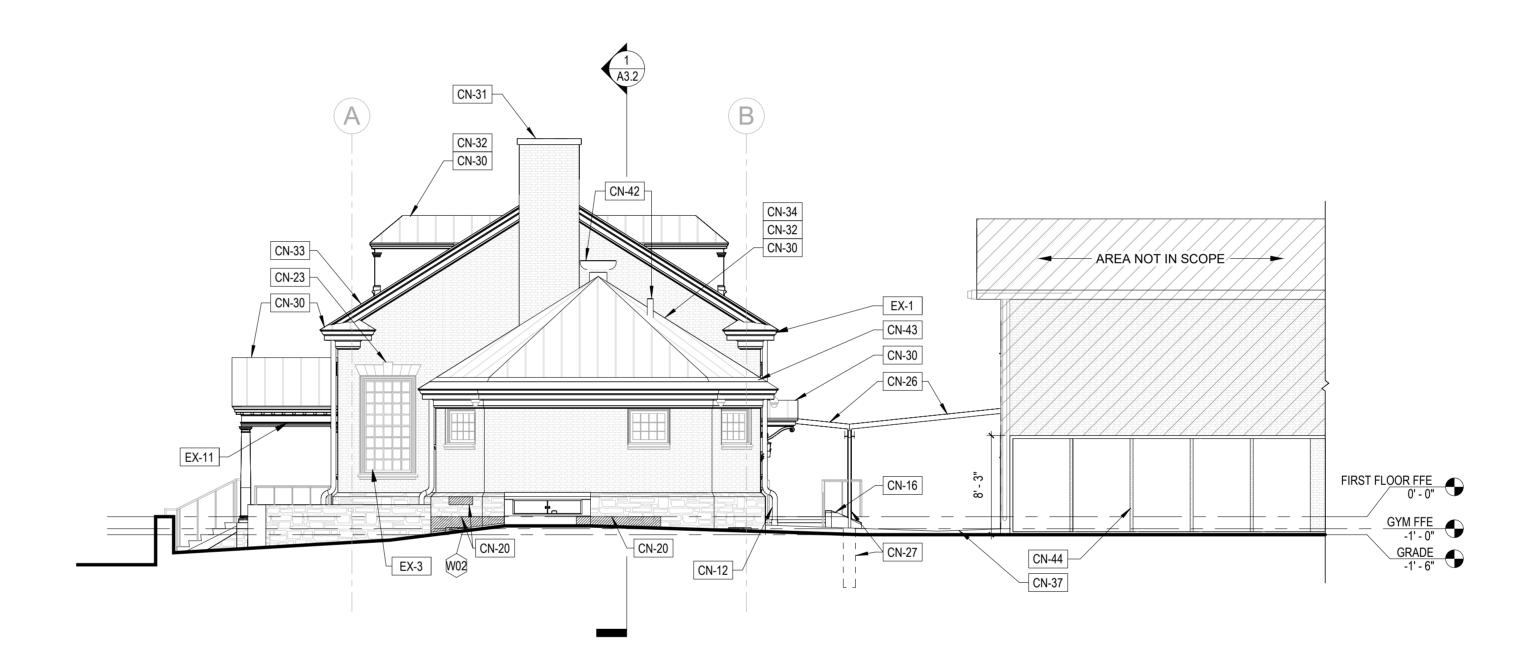
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- REPLACEMENT.
- EX-3 EXG WINDOW AND SECURITY SCREEN TO REMAIN, TYP., UNO EX-11 EXG CEILING LIGHT AT ENTRANCE PORCH TO REMAIN.

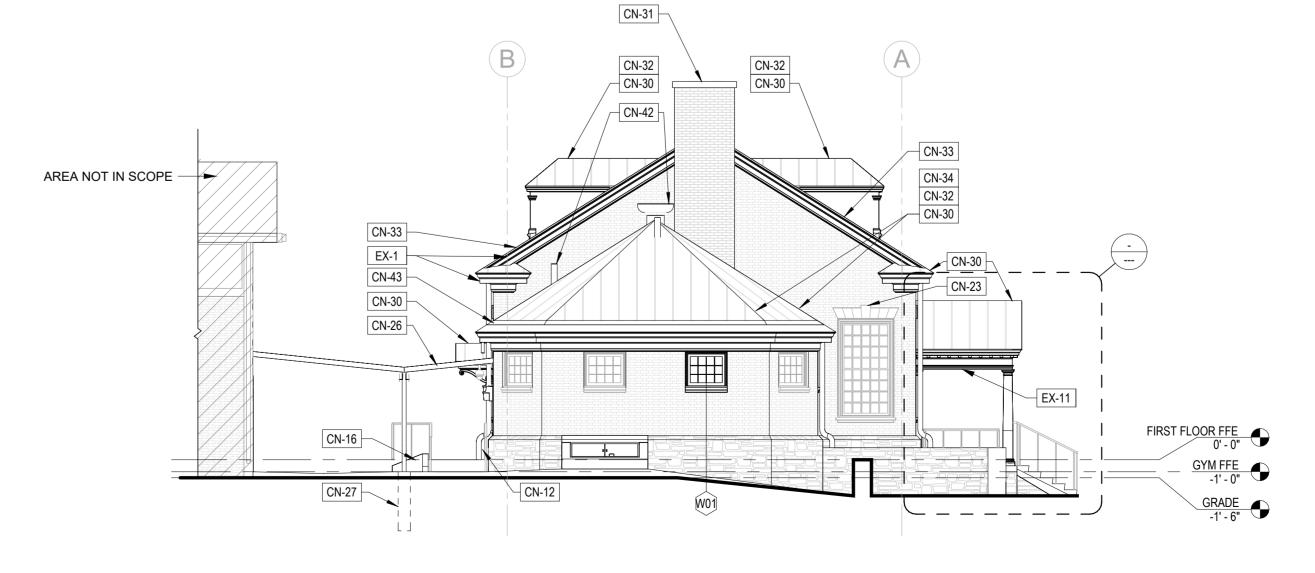
## KEYED CONSTRUCTION NOTES

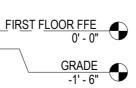
- CN-12 PROVIDE NEW CAST IRON DOWNSPOUT BOOTS, TYP, SEE PLUMBING DWGS.
- CN-16 PROVIDE NEW CONCRETE LANDING, STAIRS, AND RAMP WITH CURB AND RAILING; SEE CIVIL DWGS FOR GRADING, SEE L DWGS FOR DETAILS.
- CN-20 REPOINT MASONRY, VERIFY EXTENTS IN FIELD.
- CN-23 PAINT EXG KEYSTONE PANEL, TYP. CN-26 PROVIDE NEW BREEZEWAY ROOF DECKING AND ROOF MEMBRANE; SEE STRUCT DWGS.
- CN-27 PROVIDE NEW BREEZEWAY COLUMNS AND FOOTINGS; SEE S DWGS.
- CN-30 PROVIDE NEW STANDING SEAM MTL ROOF.
- CN-31 CAP CHIMNEY WITH CAST STONE SLAB WITH DRIP EDGE, EXTEND BEYOND MASONRY AT LEAST 4". CN-32 PROVIDE NEW ROOF SHEATHING WHERE EXISTING SHEATHING WAS REMOVED.
- CN-33 PROVIDE NEW BLOW-IN MINERAL WOOL INSULATION BETWEEN EXG 3X6 RAFTERS, TYP THROUGHOUT HIGH ROOF.
- CN-34 PROVIDE R-30 MINERAL WOOL BATT INSULATION AT LOW ROOFS. CN-35 PROVIDE NEW HM SYSTEM, SEE DOOR TYPES & DETAILS.
- CN-37 PROVIDE NEW CONCRETE PAVING, SEE CIVIL & LANDSCAPE DWGS.
- CN-42 PROVIDE NEW ROOF VENT AND EXHAUST VENTILATOR IN EXG LOCATIONS, SEE PLUMBING & MECHANICAL DWGS.
- CN-43 RECONSTRUCT INTEGRATED GUTTER THROUGHOUT ACTIVITIES BUILDING; SEE ROOF DETAILS.
- CN-44 PROVIDE NEW PERFORATED ALUMINUM FENCING, ANCHORED TO PAD BELOW; COORD WITH STRUCTURE BELOW CN-68 PROVIDE NEW SECURITY SCREENS, TYP.













15. ALL PAINTED SURFACES TO BE REPAINTED UNO.

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT.

4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW 5. ALL EXG AND NEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH.

6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. 7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

8. ALL EXG INTERIOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

SMOOTH/CONSISTENT FINISH. 9. REPLACE ALL INTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE U.N.O.; SEE DOOR SCHEDULE. 10. REFER TO MEPEP DRAWINGS FOR ADDITIONAL INFO.

11. REFER TO STRUC DRAWINGS FOR LOCATIONS OF NEW AND EXISTING STRUCTURE.

12. REFER TO LANDSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT. 13. PATCH AND REPAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES , TYP. 14. ALL DOWNSPOUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT.

AREA NOT IN SCOPE

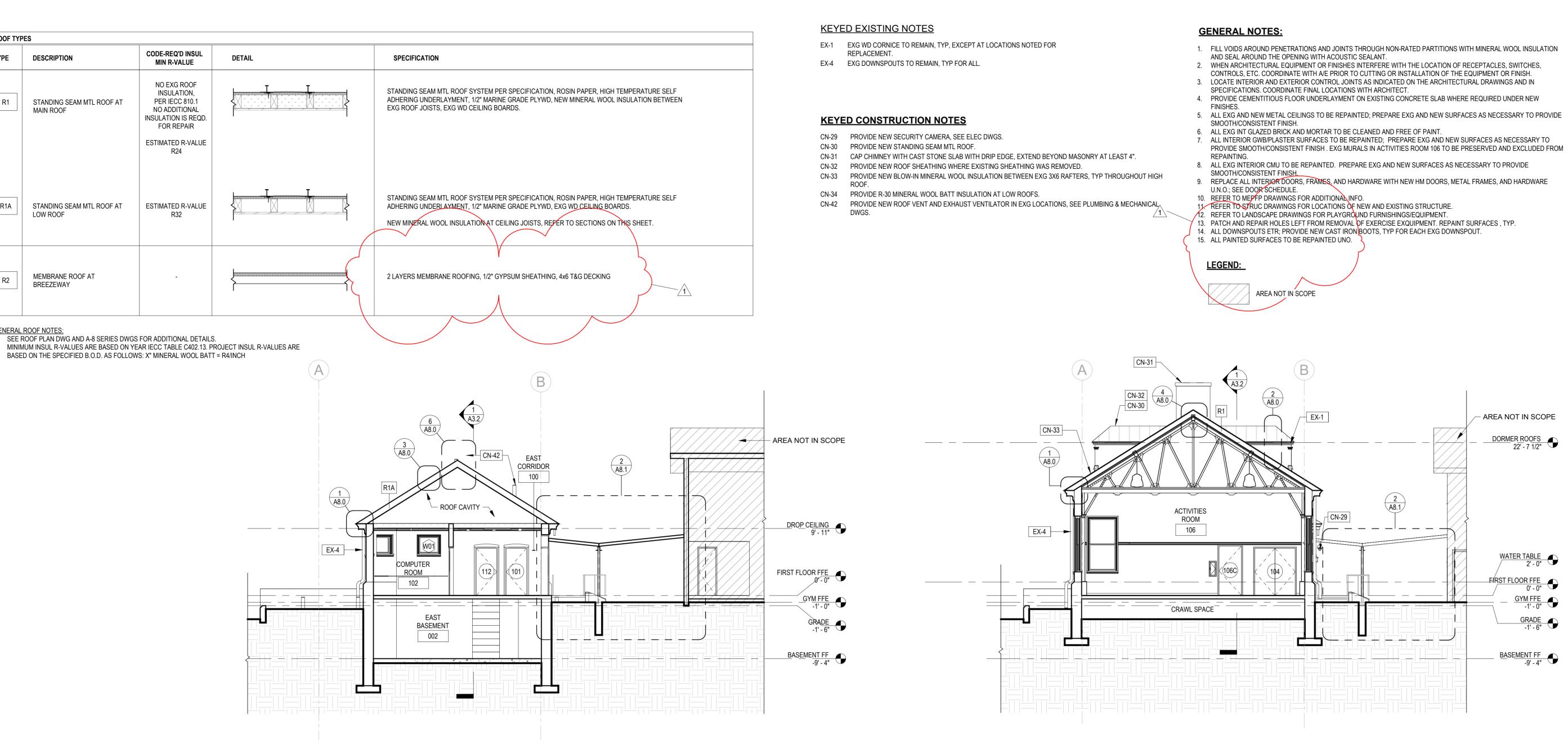
AREA OF GENERAL REPAIR; SEE CN NOTES

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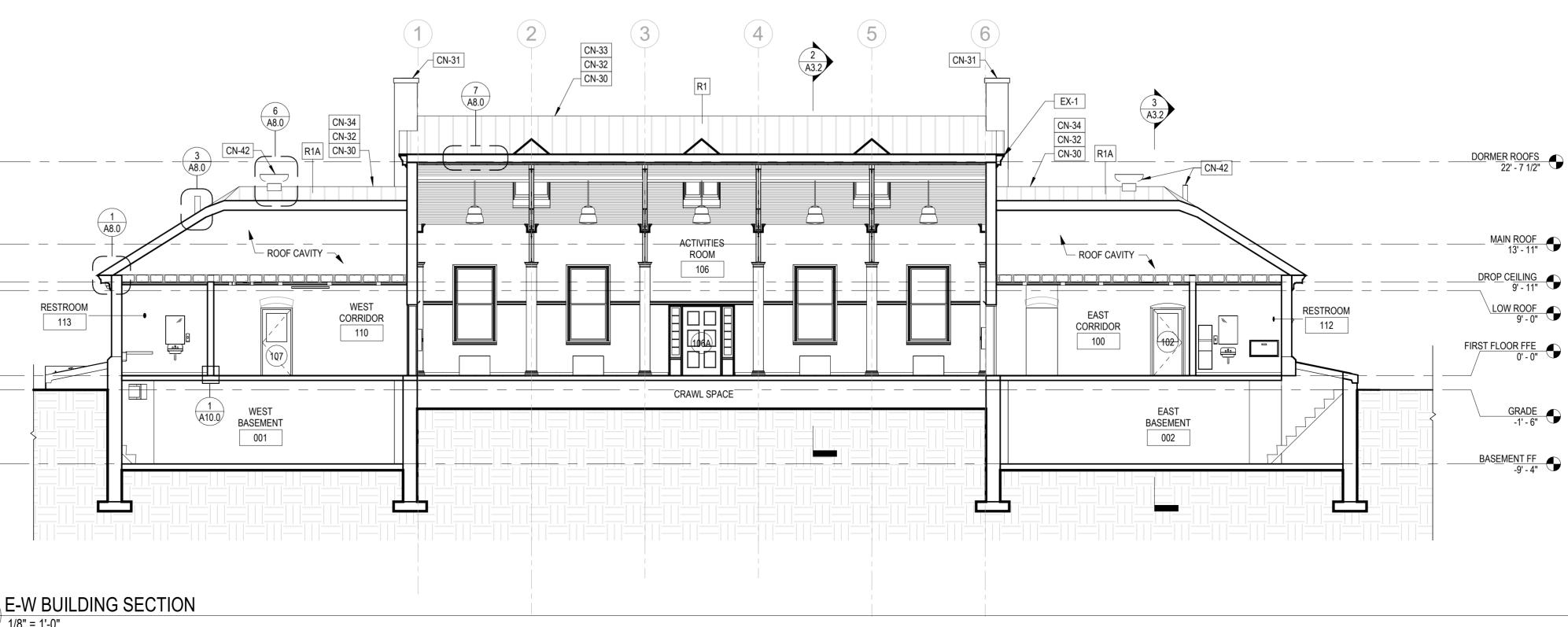
ROOF TYP	PES			
ТҮРЕ	DESCRIPTION	CODE-REQ'D INSUL MIN R-VALUE	DETAIL	SPECIFICATION
R1	STANDING SEAM MTL ROOF AT MAIN ROOF	NO EXG ROOF INSULATION, PER IECC 810.1 NO ADDITIONAL INSULATION IS REQD. FOR REPAIR		STANDING SEAM MTL ROOF SYSTEM PER SPECIFICATION, ROSIN PAPEF ADHERING UNDERLAYMENT, 1/2" MARINE GRADE PLYWD, NEW MINERAL EXG ROOF JOISTS, EXG WD CEILING BOARDS.
		ESTIMATED R-VALUE R24		
R1A	STANDING SEAM MTL ROOF AT LOW ROOF	ESTIMATED R-VALUE R32		STANDING SEAM MTL ROOF SYSTEM PER SPECIFICATION, ROSIN PAPER ADHERING UNDERLAYMENT, 1/2" MARINE GRADE PLYWD, EXG WD CEILI NEW MINERAL WOOL INSULATION AT CEILING JOISTS, REFER TO SECTIO
R2	MEMBRANE ROOF AT BREEZEWAY	-		2 LAYERS MEMBRANE ROOFING, 1/2" GYPSUM SHEATHING, 4x6 T&G DEC

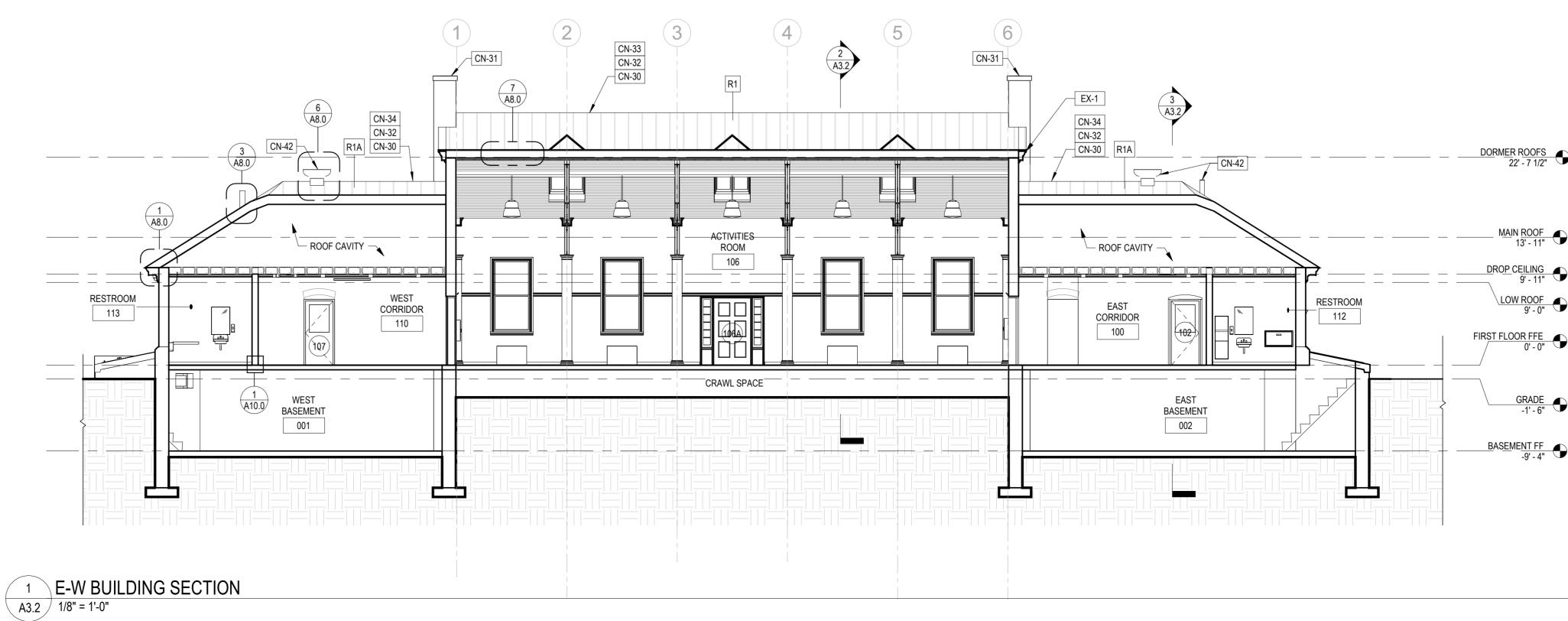
GENERAL ROOF NOTES:

. SEE ROOF PLAN DWG AND A-8 SERIES DWGS FOR ADDITIONAL DETAILS. 2. MINIMUM INSUL R-VALUES ARE BASED ON YEAR IECC TABLE C402.13. PROJECT INSUL R-VALUES ARE



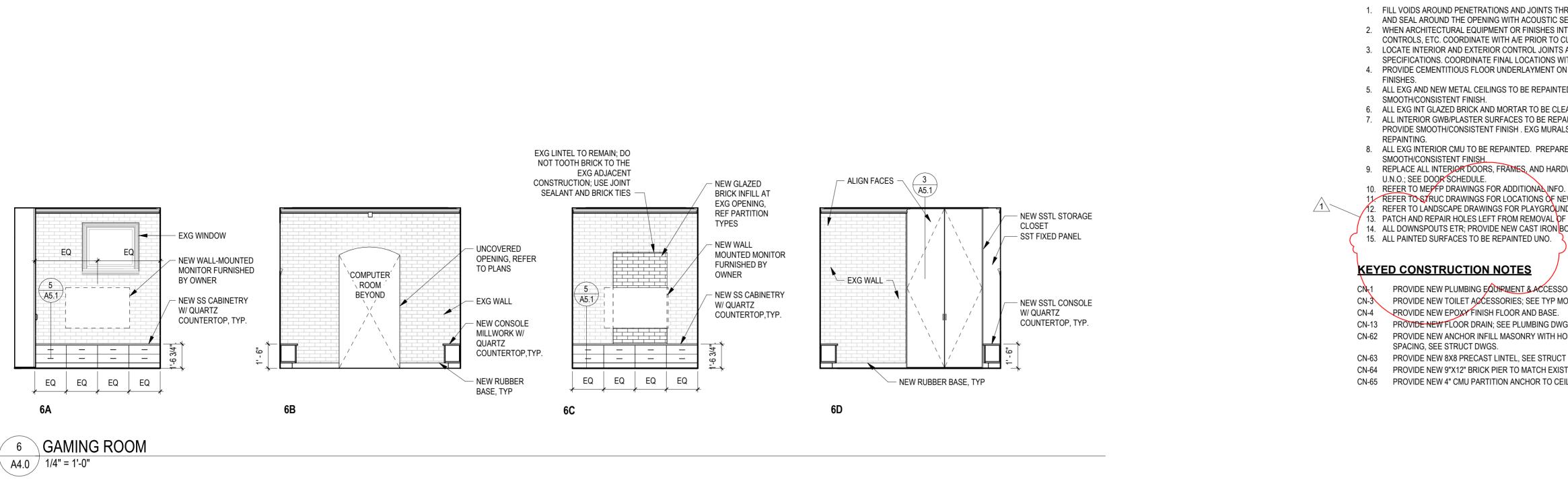


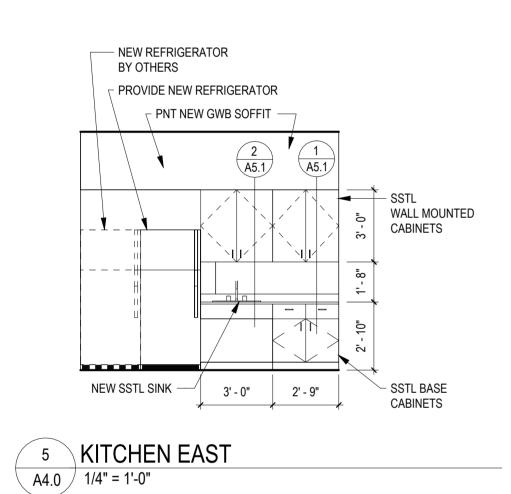


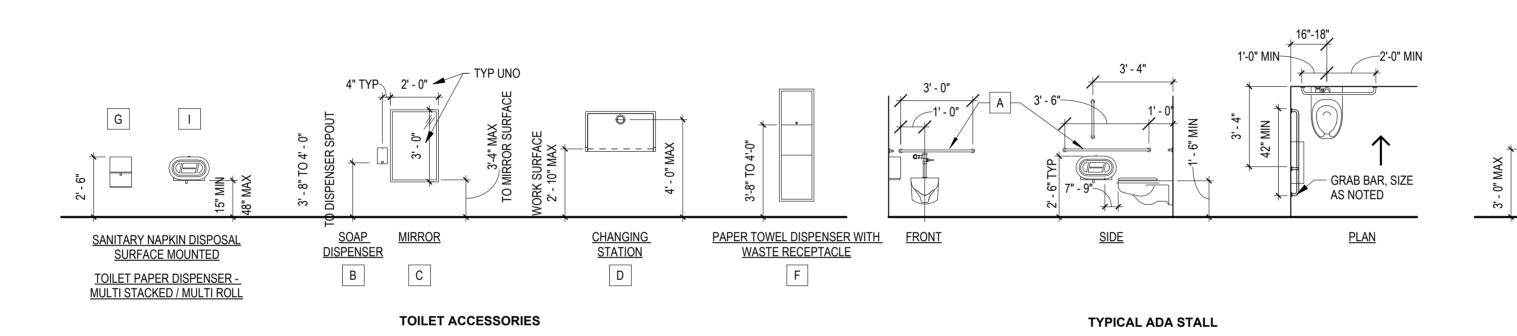




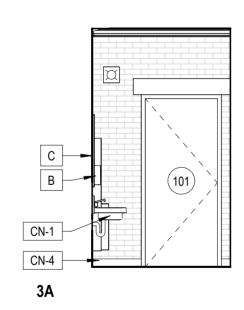
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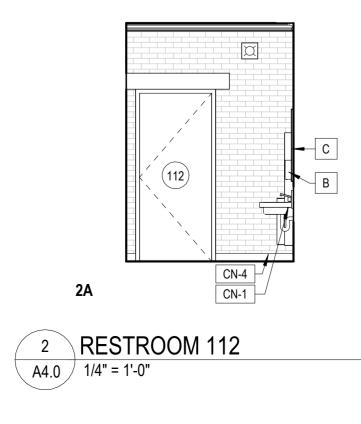




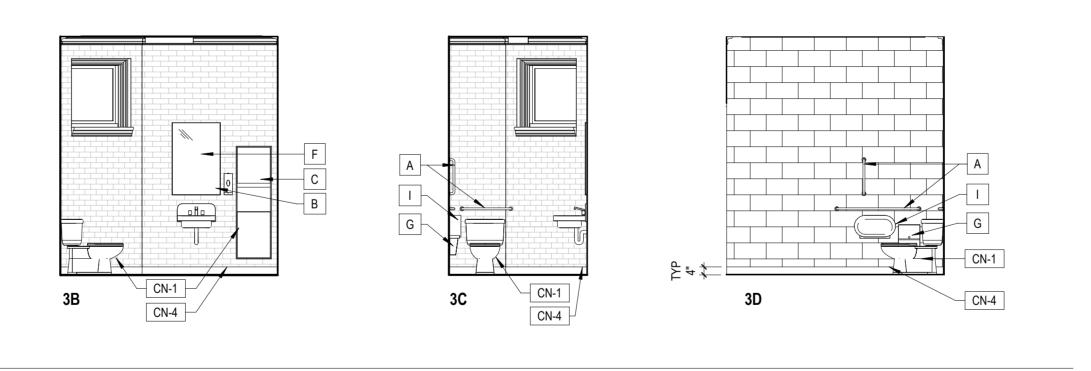


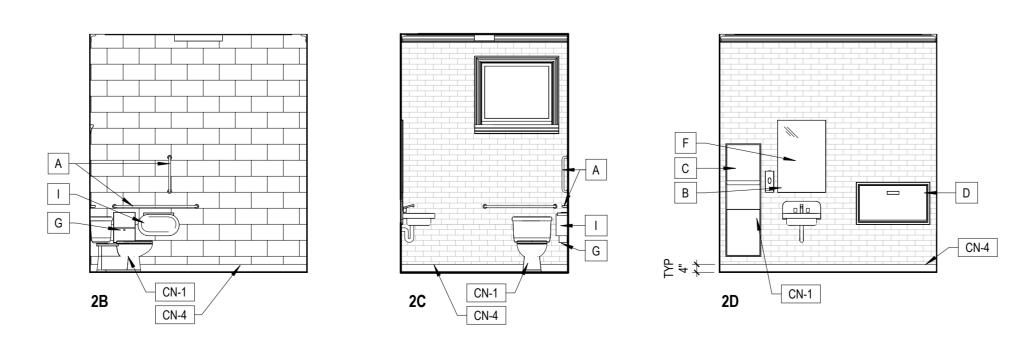


3 RESTROOM 101 A4.0 1/4" = 1'-0"









1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT. 4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW

5. ALL EXG AND NEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT. 7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

8. ALL EXG INTERIOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE

9. REPLACE ALL INTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE

11. REFER TO STRUC DRAWINGS FOR LOCATIONS OF NEW AND EXISTING STRUCTURE.

12. REFER TO LANDSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT. 13. PATCH AND REPAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES . TYP. 14. ALL DOWNSPOUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT.

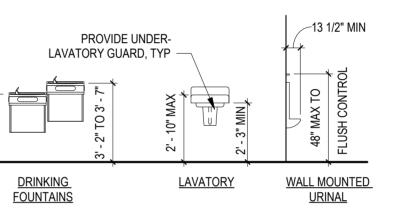
#### **KEYED CONSTRUCTION NOTES**

PROVIDE NEW PLUMBING EQUIRMENT & ACCESSORIES; SEE PLUMBING DWGS.

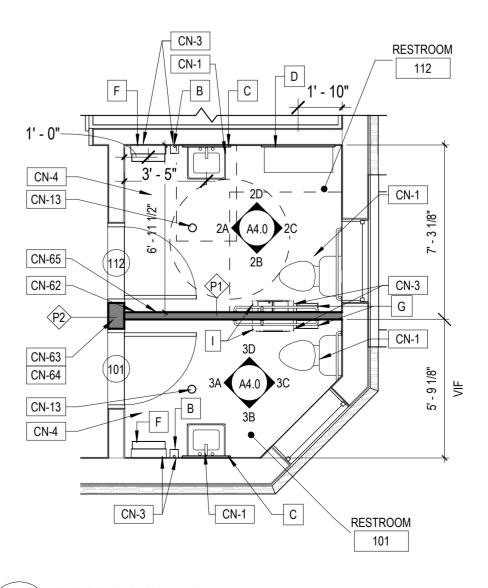
- PROVIDE NEW TOILET ACCESSORIES; SEE TYP MOUNTING HEIGHTS.
- CN-13 PROVIDE NEW FLOOR DRAIN; SEE PLUMBING DWGS.

CN-62 PROVIDE NEW ANCHOR INFILL MASONRY WITH HOHMAN & BARNARD SLIP-SET STABLIZER ANCHORS @ 32" VERTICAL

- SPACING, SEE STRUCT DWGS. CN-63 PROVIDE NEW 8X8 PRECAST LINTEL, SEE STRUCT DWGS; PAINT, COLOR AND FINISH TO MATCH NEW GLAZED BRICK. CN-64 PROVIDE NEW 9"X12" BRICK PIER TO MATCH EXISTING PARTITION, SEE STRUCT DWGS.
- CN-65 PROVIDE NEW 4" CMU PARTITION ANCHOR TO CEILING AT THIRD POINTS, SEE STRUCT DWGS.



#### PLUMBING FIXTURES

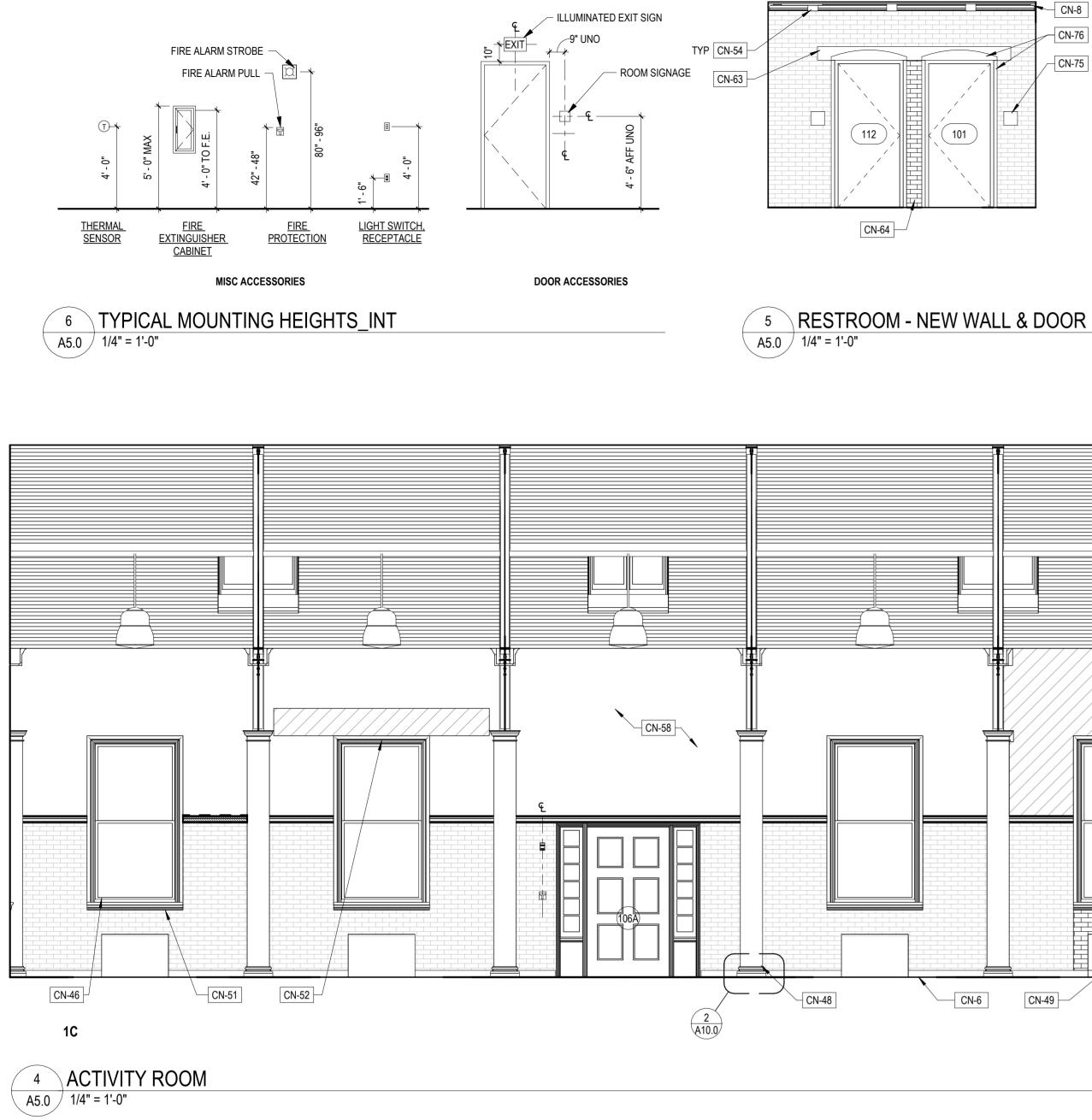


## RESTROOM 101 & 112 1 **RESTRO** A4.0 1/4" = 1'-0"

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ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

NOTE:



CN-49 CN-6

CN-49



1B

#### LEGEND:

CN-8 TYP CN-76 TYP CN-75 TYP

REPAIR OR REPLACE WD MOLDING

PATCH/REPAIR AREA OF DAMAGED PLASTER

#### KEYED EXISTING NOTES

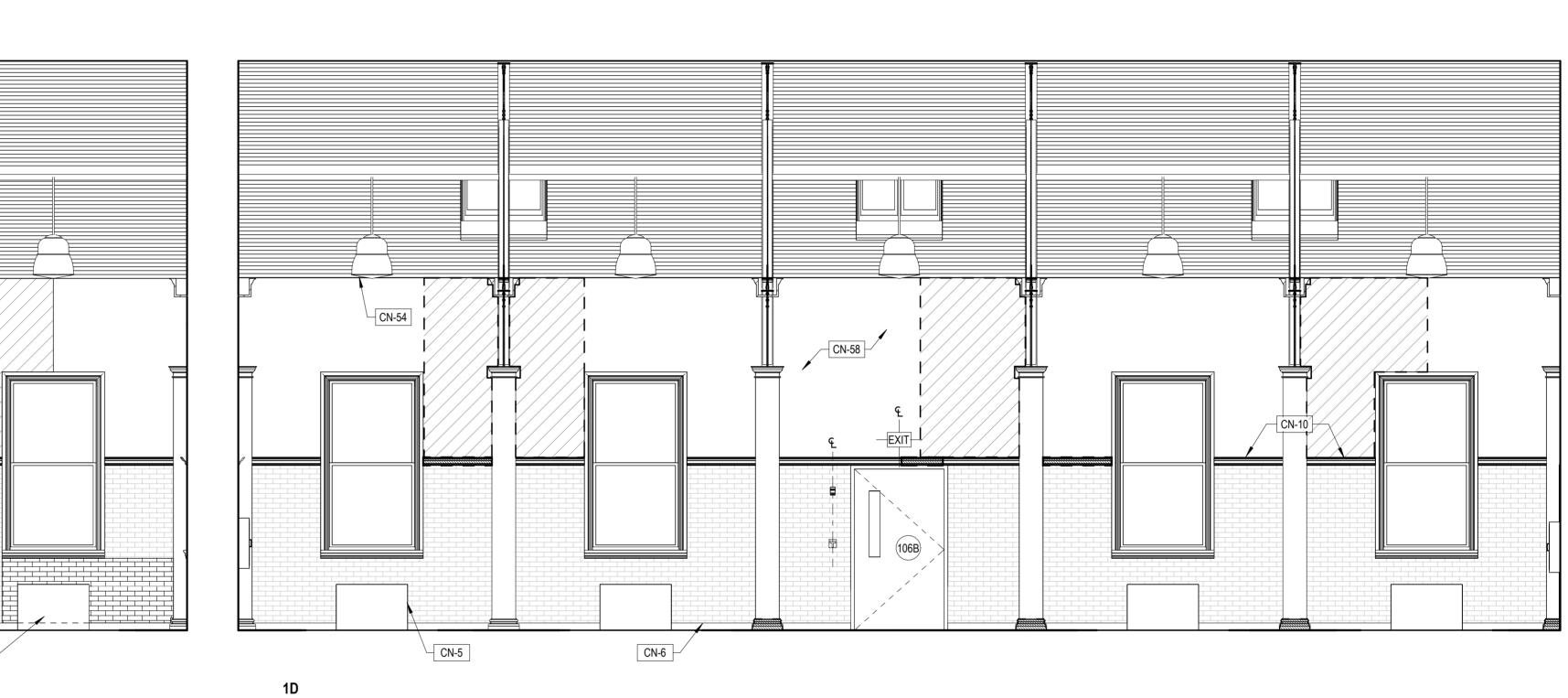
- EX-8 EXG WALL MURAL TO BE PRESERVED.
- EX-9 EXG WOODEN CASED OPENINGS TO REMAIN.

#### KEYED CONSTRUCTION NOTES

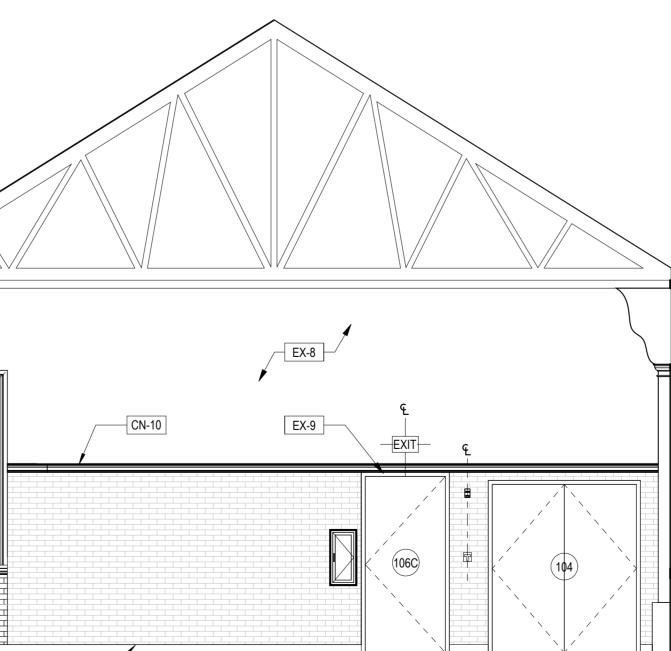
- CN-5 PROVIDE NEW MECH EQUIPMENT, TYP, SEE MECH DWGS.
- PROVIDE NEW RESILIENT FLOOR & BASE, REFER TO FINISH PLAN FOR MORE CN-6 INFORMATION.
- PROVIDE NEW ACCESSIBLE DRINKING FOUNTAIN AND BOTTLE FILLING STATION. CN-7
- CN-8 PATCH / REPLACE EXG MTL CEILING AS INDICATED ON THE DRAWINGS; VERIFY CONDITIONS IN THE FIELD AND CONSULT ARCHITECT ON THE EXTENTS

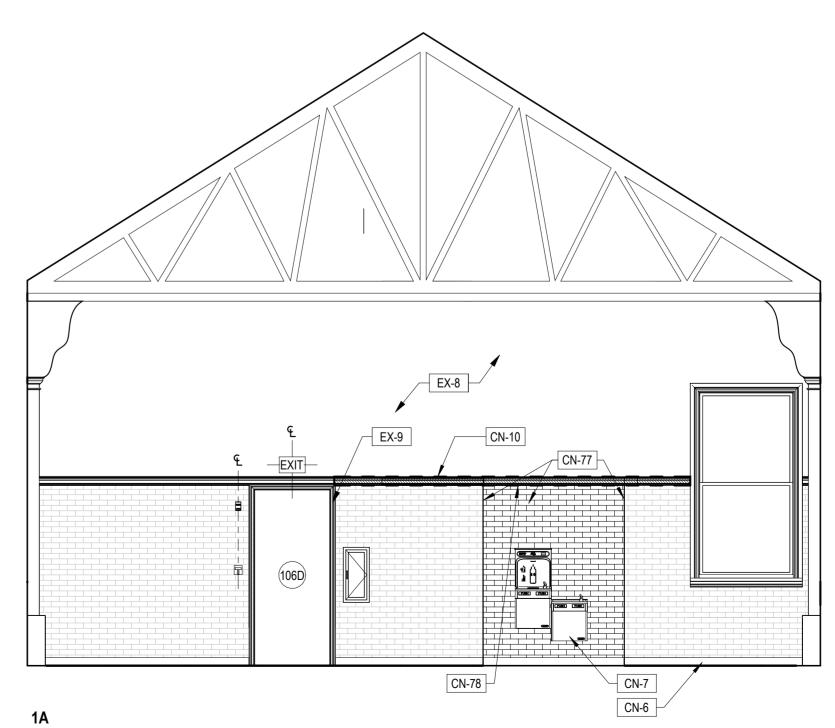
CN-10 PROVIDE NEW WOOD TRANSITION MOLDING WHERE MISSING OR DAMAGED TO MATCH EXG; VERIFY EXTENTS IN FIELD.

- CN-46 REPAIR EXG WINDOW TO ALLOW FOR NORMAL OPERATION. CN-48 PROVIDE NEW WD BASE AT WD PILASTER, TYP FOR ALL, MATCH EXG.
- CN-49 REPAIR WATER DAMAGE & REPLACE SPALLED BRICKS, VERIFY EXTENT IN FIELD.
- CN-51 CLEAN AND PREP WALL BELOW SILL FOR NEW WD TRIM.
- CN-52 SCRAPE, CLEAN AND PAINT LINTEL.
- CN-54 PROVIDE NEW INT LIGHTING FIXTURES, TYP, SEE ELEC DWGS. CN-58 SCRAPE, CLEAN AND PAINT PLASTER PORTION OF WALL ABOVE WD TRIM.
- CN-63 PROVIDE NEW 8X8 PRECAST LINTEL, SEE STRUCT DWGS; PAINT, COLOR AND FINISH TO MATCH NEW GLAZED BRICK.
- CN-64 PROVIDE NEW 9"X12" BRICK PIER TO MATCH EXISTING PARTITION, SEE STRUCT DWGS. CN-75 PROVIDE NEW ROOM SIGNAGE; REFER TO SIGNAGE TYPES AND TYPICAL MOUNTING
- CN-76 NEW WD DOOR TRIM, REFER TO DOOR DETAILS.
- CN-77 NEW GLAZED BRICK TO MATCH EXG, REFER TO PARTITION TYPES; RETURN NEW GLAZED BRICK AT SIDES AND PROVIDE RADIUS EDGE AT OUTSIDE CORNER.
- CN-78 NEW GYPSUM CEILING.













FINISHES.

REPAINTING.

<u>/1</u>

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT. 2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES,

CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT. 4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW

5. ALL EXG AND NEW METAL CEILINGS TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH. 6. ALL EXG INT GLAZED BRICK AND MORTAR TO BE CLEANED AND FREE OF PAINT.

7. ALL INTERIOR GWB/PLASTER SURFACES TO BE REPAINTED; PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH . EXG MURALS IN ACTIVITIES ROOM 106 TO BE PRESERVED AND EXCLUDED FROM

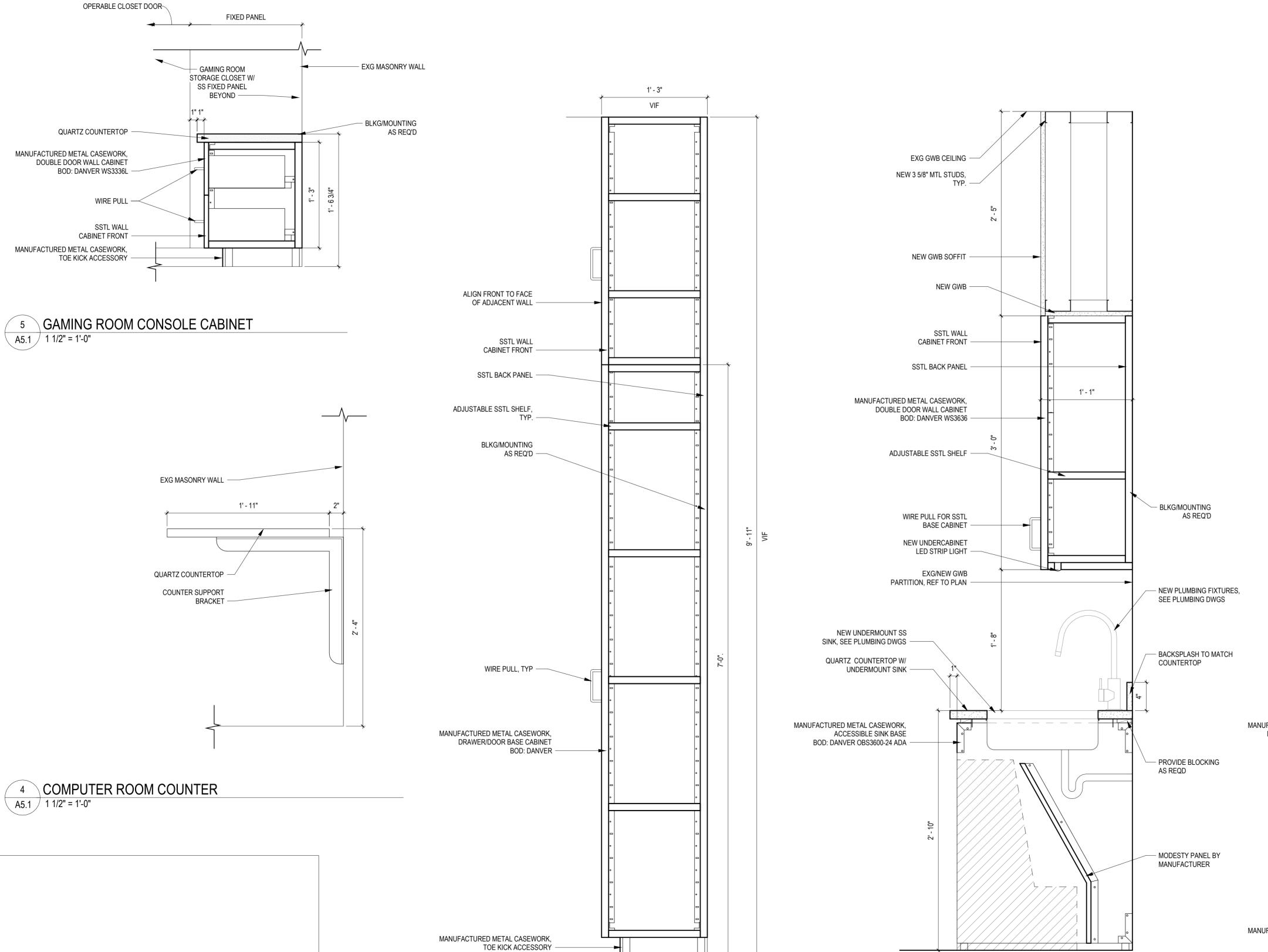
8. ALL EXG INTERIOR CMU TO BE REPAINTED. PREPARE EXG AND NEW SURFACES AS NECESSARY TO PROVIDE SMOOTH/CONSISTENT FINISH.

9. REPLACE ALL INTERIOR DOORS, FRAMES, AND HARDWARE WITH NEW HM DOORS, METAL FRAMES, AND HARDWARE U.N.O.; SEE DOOR SCHEDULE.

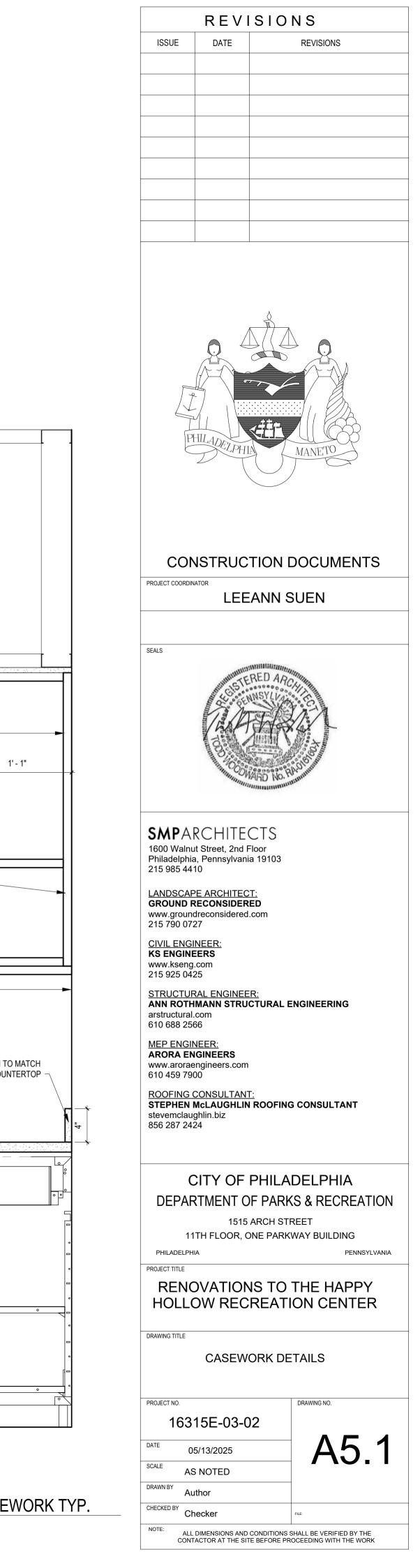
10. REFER TO MEPEP DRAWINGS FOR ADDITIONAL INFO. 11. REFER TO STRUC DRAWINGS FOR LOCATIONS OF NEW AND EXISTING STRUCTURE.

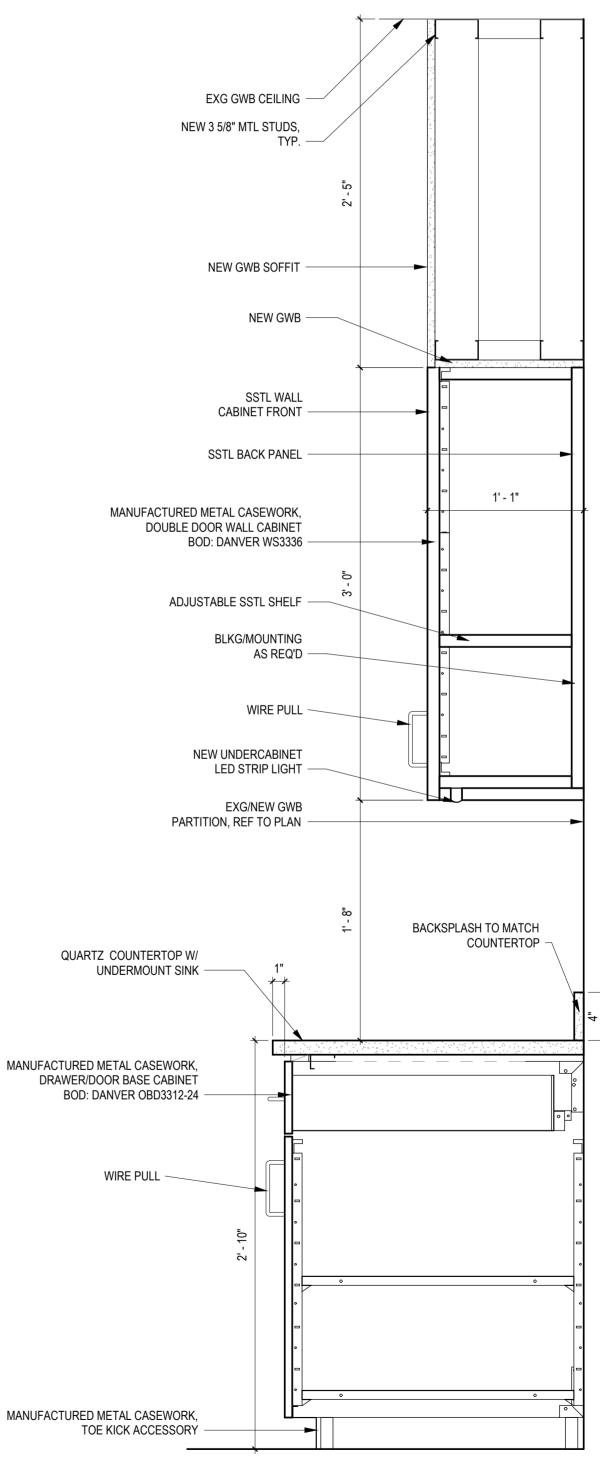
12. REFER TO LANDSCAPE DRAWINGS FOR PLAYGROUND FURNISHINGS/EQUIPMENT. 13. PATCH AND REPAIR HOLES LEFT FROM REMOVAL OF EXERCISE EXQUIPMENT. REPAINT SURFACES, TYP. 14. ALL DOWNSPOUTS ETR; PROVIDE NEW CAST IRON BOOTS, TYP FOR EACH EXG DOWNSPOUT. 15. ALL PAINTED SURFACES TO BE REPAINTED UNO.

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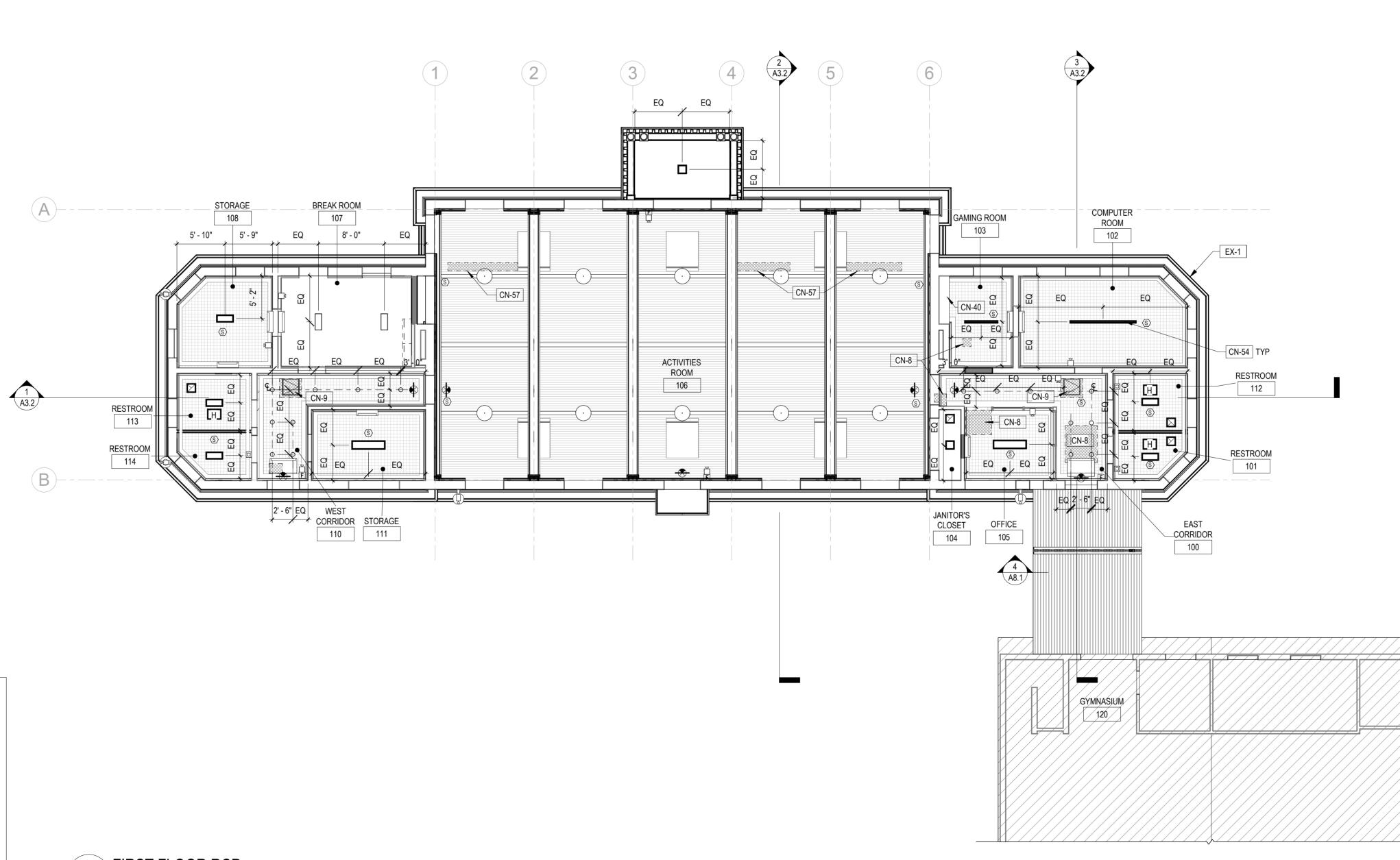


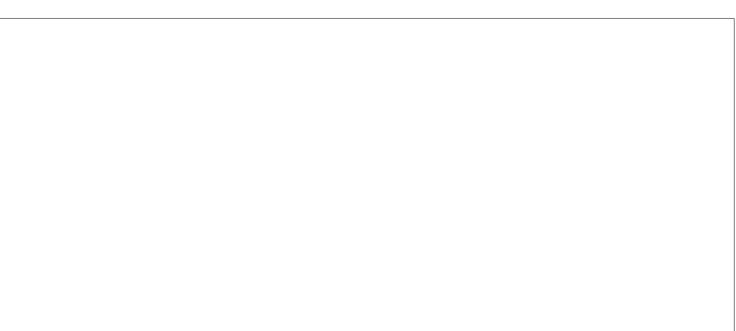




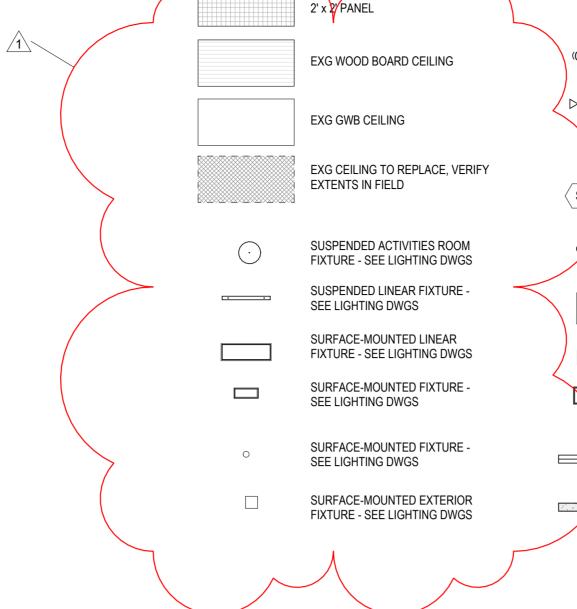


1 KITCHEN - STAINLESS STEEL CASEWORK TYP. A5.1 1 1/2" = 1'-0"









EXG PRESSED METAL CEILING W/

RCP LEGEND:

(OC)	OCCUPANCY SENSOR - SEE MECH / ELEC DWGS	
	FIRE HORN/STROBE - SEE ELEC DWGS	
F	MANUAL PULL STATION	
$\langle s \rangle$	SMOKE DETECTOR	
*	WALL OR CEILING MOUNTED ILLUMINATED EXIT SIGN - SEE LIGHTING DWGS	
	WALL VRF UNIT - SEE MECH DWGS	
	EXHAUST FAN - SEE MECH DWGS	
R	CEILING HEATER - SEE MECH DWGS	
	LINEAR SUPPLY DIFFUSER - SEE MECH DWGS	
	LINEAR RETURN GRILLE - SEE MECH DWGS	

- - - UNDERCABINET LED STRIP LIGHT

# FINISHES. SMOOTH/CONSISTENT FINISH. REPAINTING. SMOOTH/CONSISTENT FINISH. U.N.O.; SEE DOOR SCHEDULE. 15. ALL PAINTED SURFACES TO BE REPAINTED UNO. KEYED EXISTING NOTES

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

2. WHEN ARCHITECTURAL EQUIPMENT OR FINISHES INTERFERE WITH THE LOCATION OF RECEPTACLES, SWITCHES, CONTROLS, ETC. COORDINATE WITH A/E PRIOR TO CUTTING OR INSTALLATION OF THE EQUIPMENT OR FINISH. 3. LOCATE INTERIOR AND EXTERIOR CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND IN SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT. 4. PROVIDE CEMENTITIOUS FLOOR UNDERLAYMENT ON EXISTING CONCRETE SLAB WHERE REQUIRED UNDER NEW

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REPLACEMENT.

EX1 EXG WD CORNICE TO REMAIN, TYP, EXCEPT AT LOCATIONS NOTED FOR

KEYED CONSTRUCTION NOTES

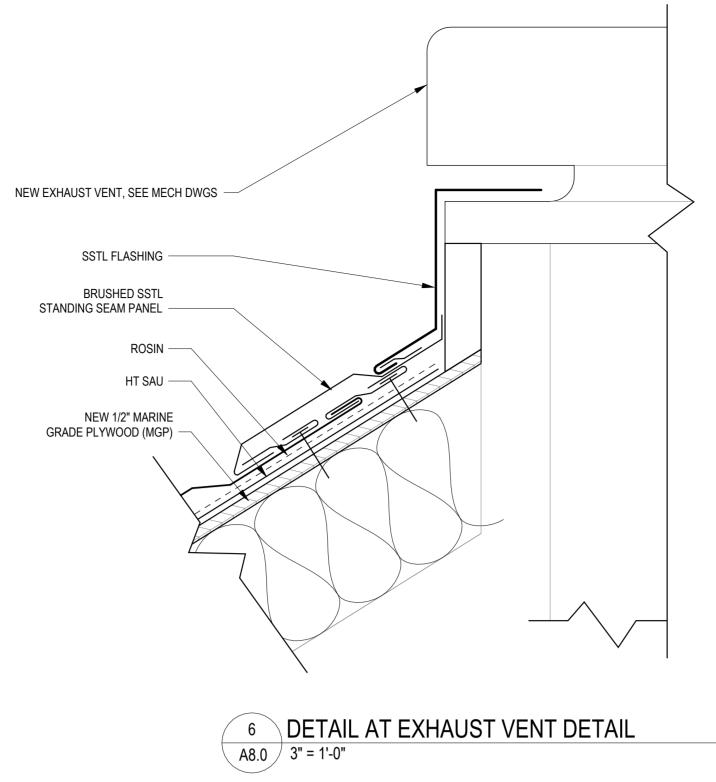
CN-8 PATCH / REPLACE EXG MTL CEILING AS INDICATED ON THE DRAWINGS; VERIFY CONDITIONS IN THE FIELD AND CONSULT ARCHITECT ON THE EXTENTS

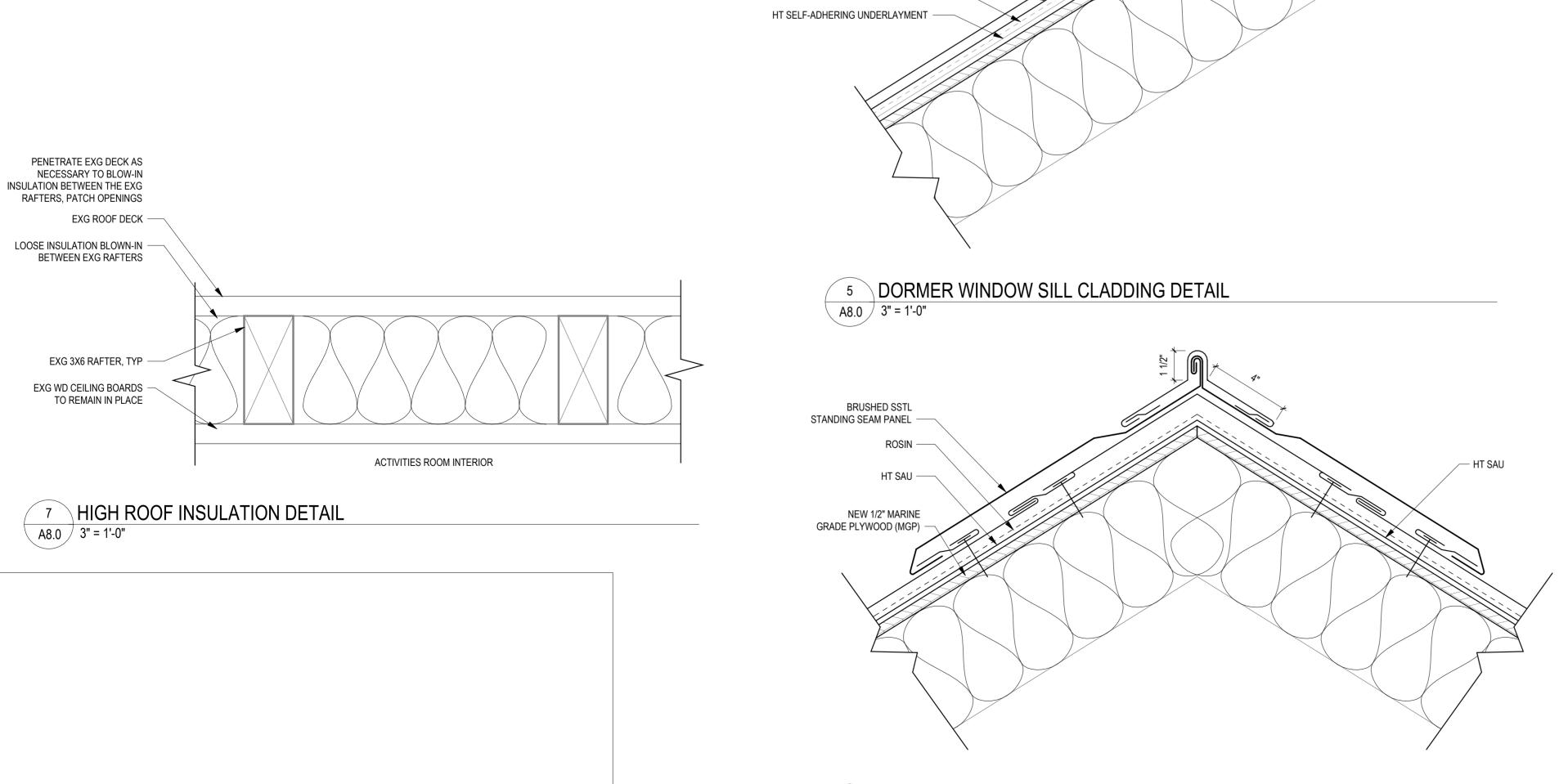
CN-9 PROVIDE NEW CEILING ACCESS PANEL TO MATCH EXISTING. PATCH / REPAIR CEILING AS NEEDED. CN-40 PROVIDE NEW CONSOLE AND WALL CLOSET.

CN-54 PROVIDE NEW INT LIGHTING FIXTURES, TYP, SEE ELEC DWGS. CN-57 REPAIR OR REPLACE DAMAGED WOOD CEILING BOARDS, VERIFY EXTENT IN FIELD, FINISH TO MATCH EXG.

# REVISIONS ISSUE DATE REVISIONS 06/30/2025 REVISION 1 1 CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN SEALS **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: **ARORA ENGINEERS** www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA PROJECT TITLE RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER DRAWING TITLE REFLECTED CEILING PLANS

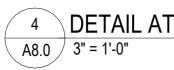
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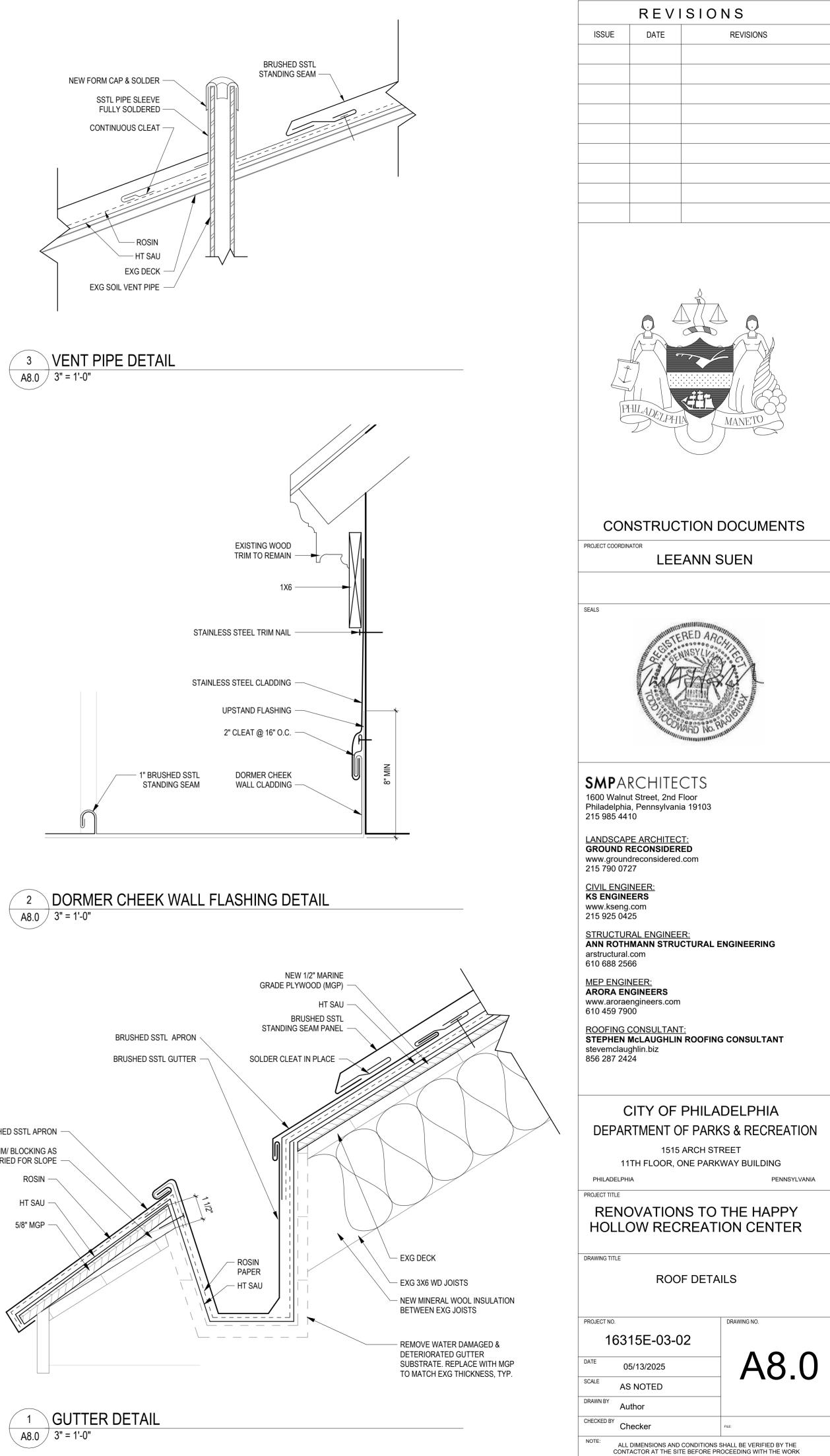
STANDING SEAM METAL PAN

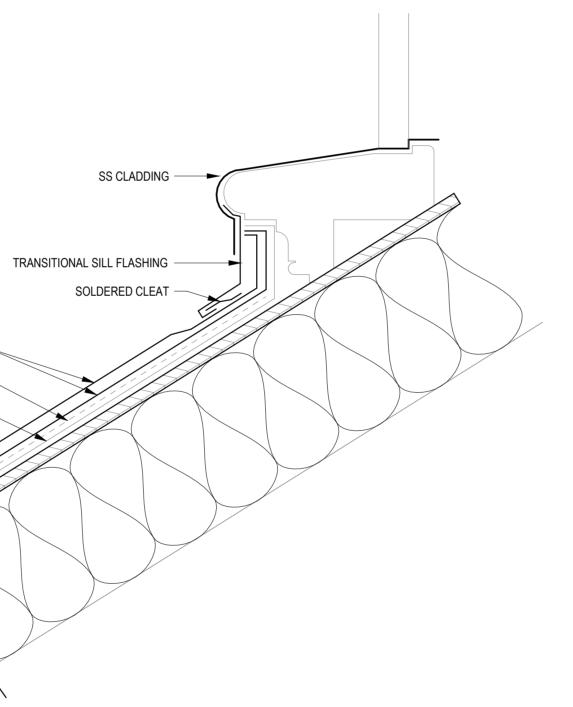
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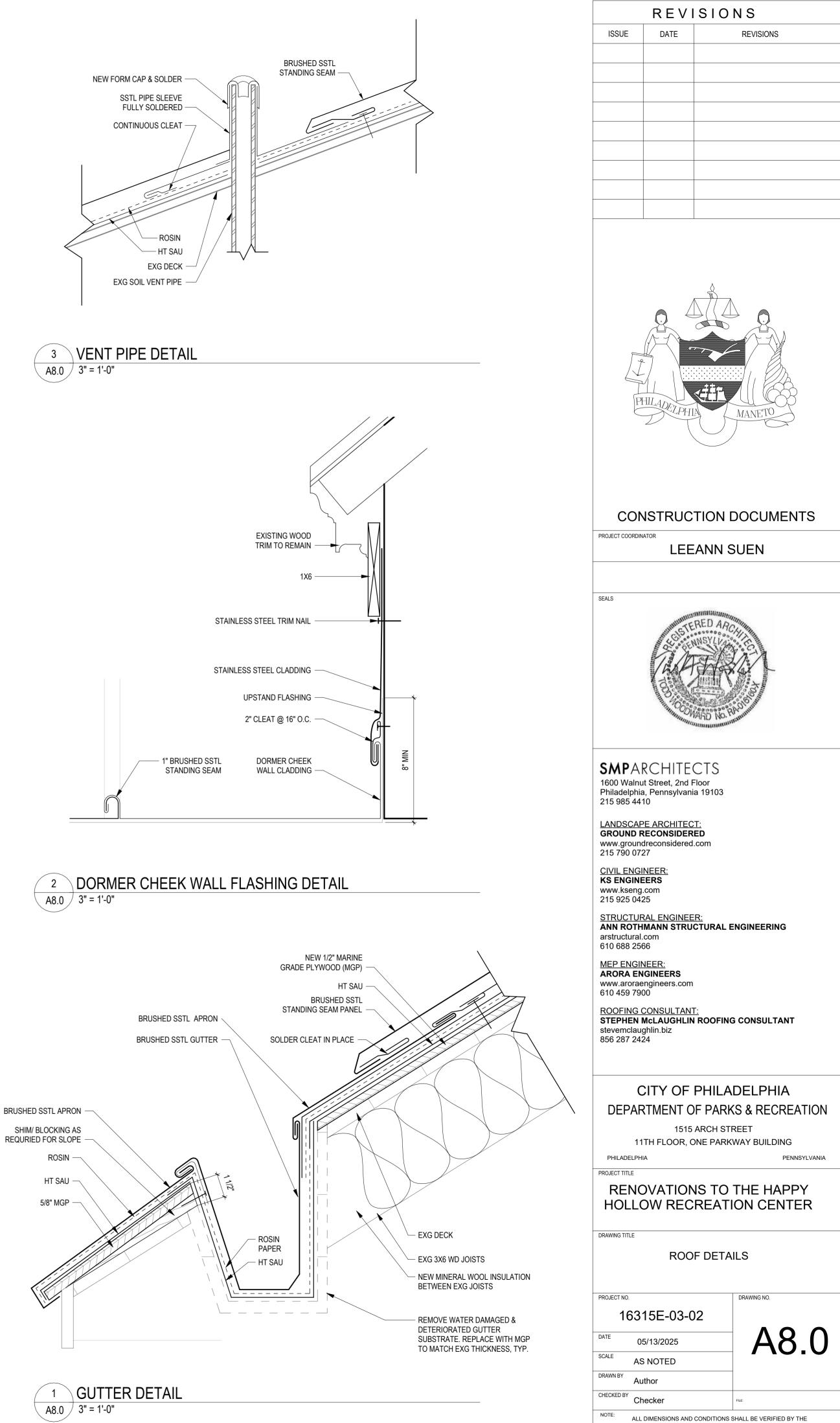


# CONTINUOUS CLEAT -

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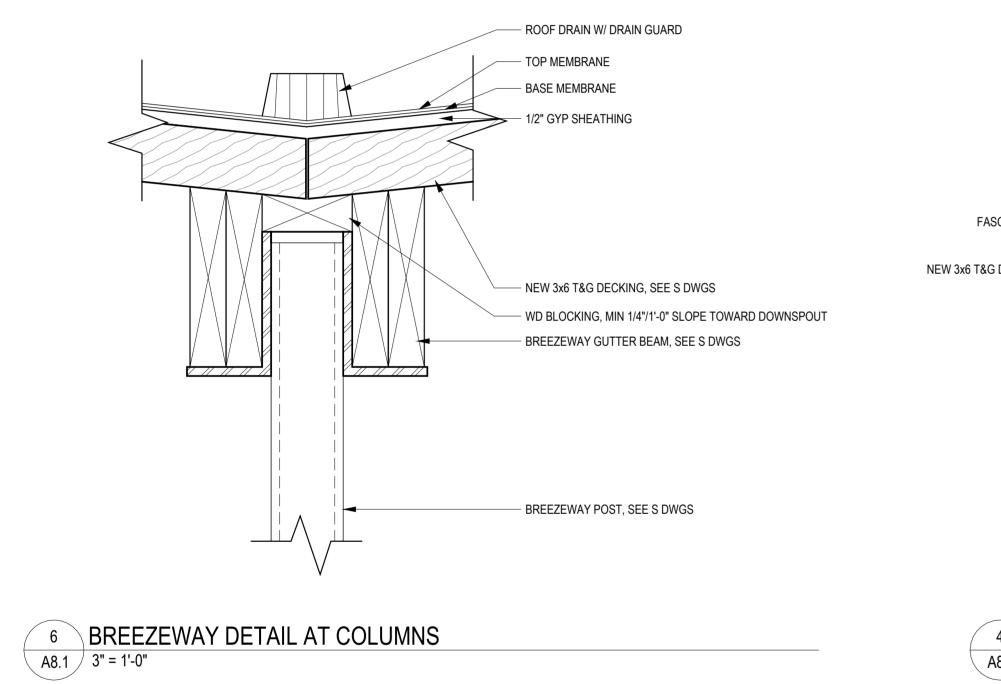






DETAIL AT ROOF HIP & RIDGE







<u>PLAN KEY:</u>

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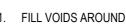
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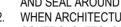
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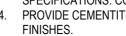
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TO REMAIN

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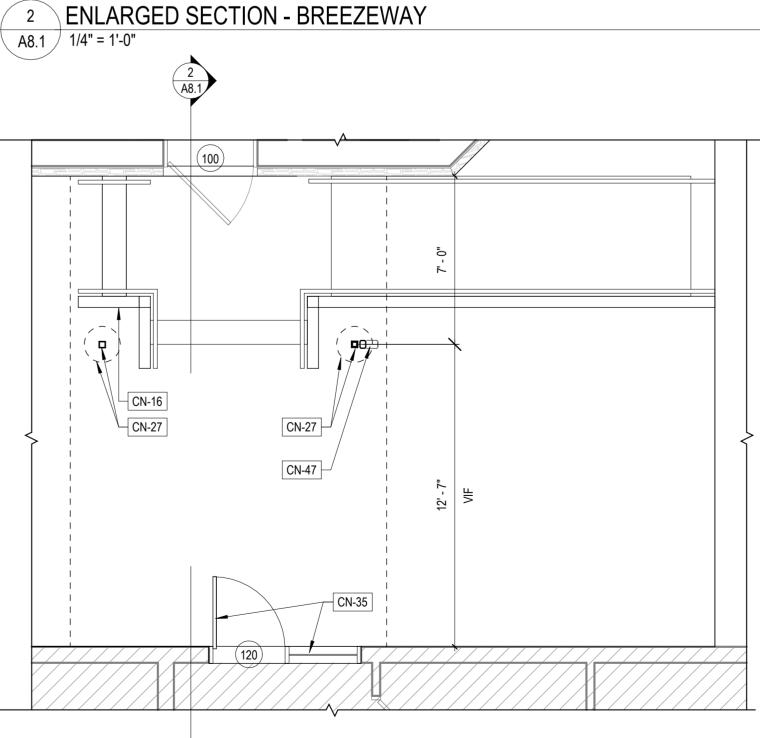


SMOOTH/CONSISTENT FINISH.

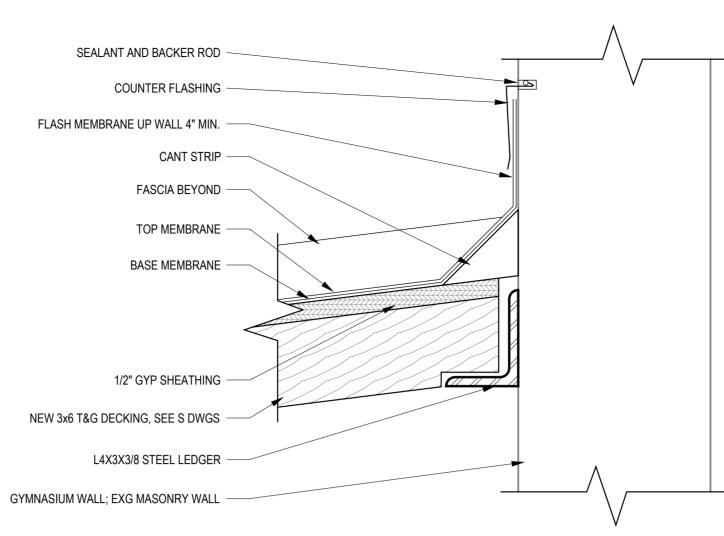
- REPAINTING.
- SMOOTH/CONSISTENT FINISH.
- U.N.O.; SEE DOOR SCHEDULE.
- 15. ALL PAINTED SURFACES TO BE REPAINTED UNO.
- KEYED EXISTING NOTES
- REPLACEMENT.

## KEYED CONSTRUCTION NOTES

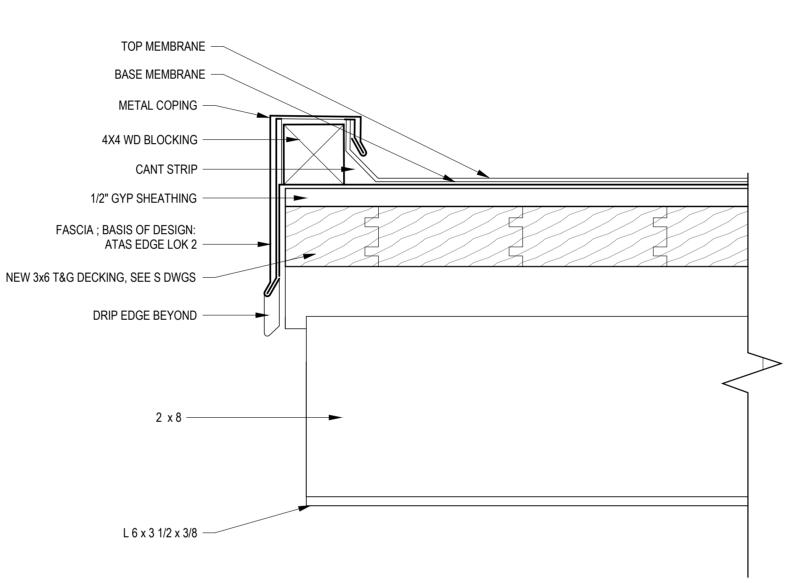
- DWGS FOR DETAILS. CN-35 PROVIDE NEW HM SYSTEM, SEE DOOR TYPES & DETAILS. DWGS
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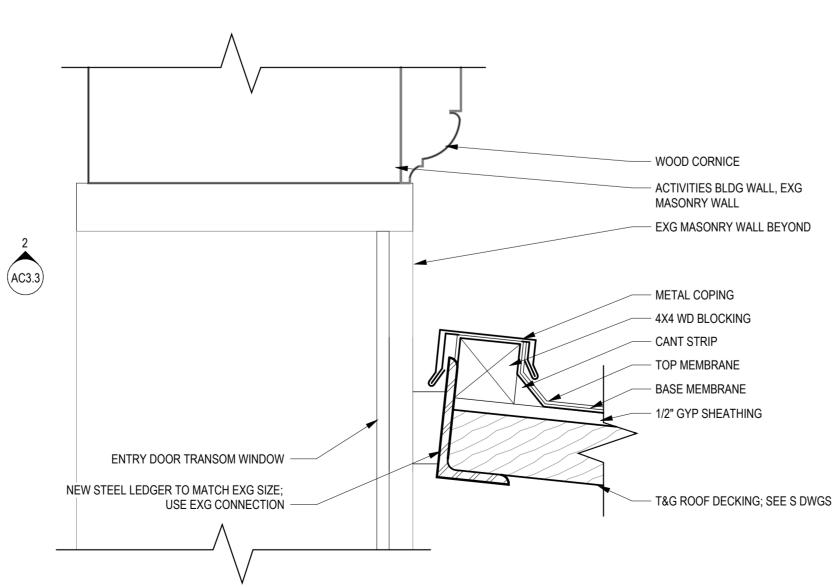
1 ENLARGED PLAN - BREEZEWAY FOOTINGS, STAIR & RAMP A8.1 1/4" = 1'-0"











<sup>3</sup> BREEZEWAY DETAIL AT ACTIVITIES BUILDING A8.1 3" = 1'-0"

1. FILL VOIDS AROUND PENETRATIONS AND JOINTS THROUGH NON-RATED PARTITIONS WITH MINERAL WOOL INSULATION AND SEAL AROUND THE OPENING WITH ACOUSTIC SEALANT.

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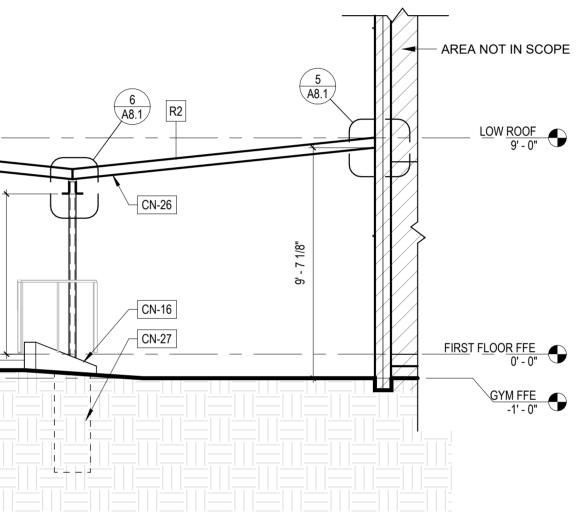
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EX-1 EXG WD CORNICE TO REMAIN, TYP, EXCEPT AT LOCATIONS NOTED FOR

CN-16 PROVIDE NEW CONCRETE LANDING, STAIRS, AND RAMP WITH CURB AND RAILING; SEE CIVIL DWGS FOR GRADING, SEE L

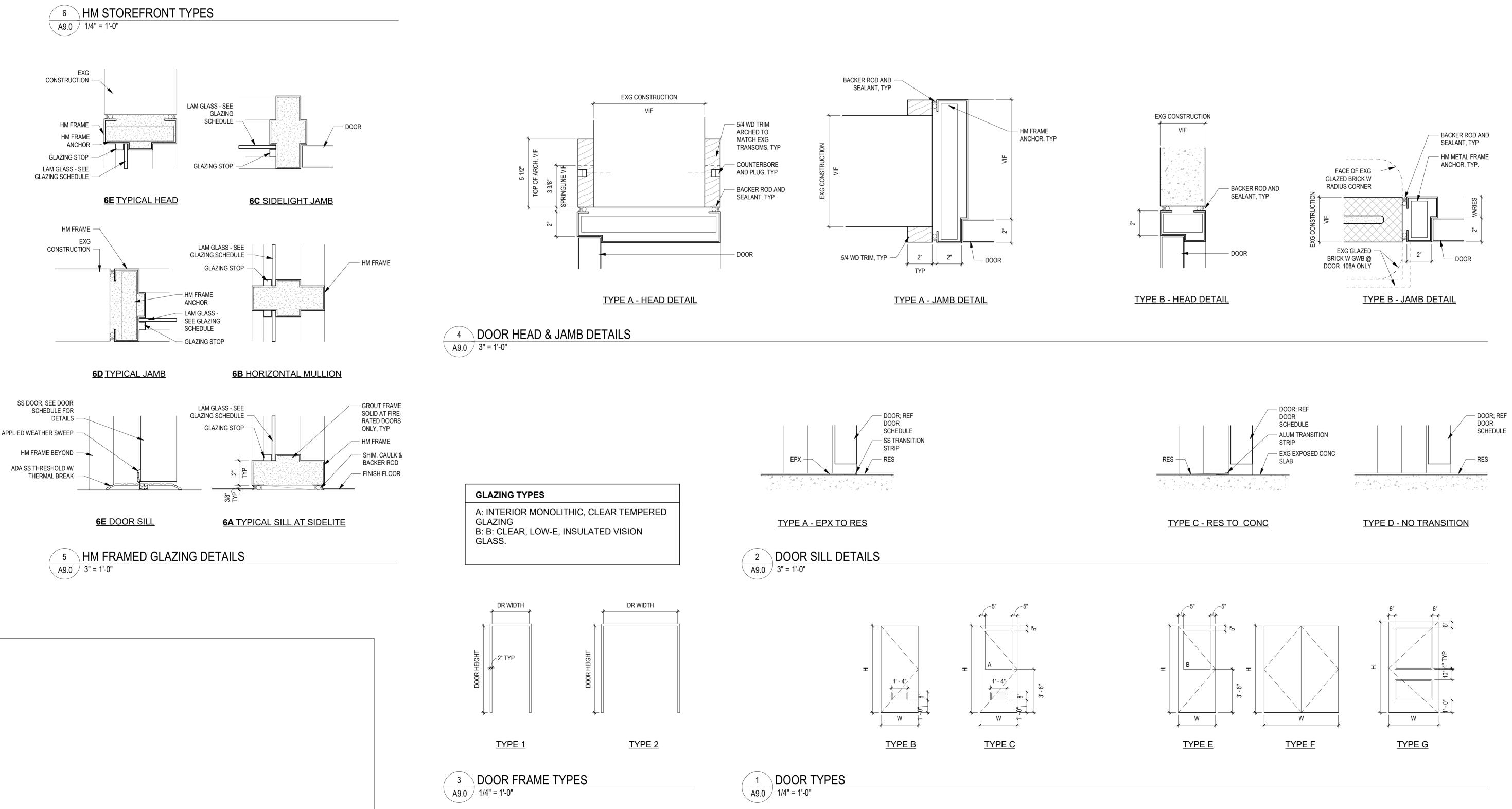
- CN-26 PROVIDE NEW BREEZEWAY ROOF DECKING AND ROOF MEMBRANE; SEE STRUCT DWGS.
- CN-27 PROVIDE NEW BREEZEWAY COLUMNS AND FOOTINGS; SEE S DWGS.

CN-47 PROVIDE NEW ROOF DRAIN WITH DRAIN GUARD, DOWNSPOUT & BOOT. NEW STORMWATER CONNECTION, SEE CIVIL



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100	EAST CORRIDOR		•		•	EXG	SS	-	3' - 7"	7' - 0"	EXG	EXG	EXG	EXG	PT	EXG	EXG	EXG	10A	PROVIDE ENTRANCE FLOOR MAT
101	RESTROOM	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	A	A	А	04	
102	COMPUTER ROOM	•		•		C	HM	-	3' - 0"	7' - 0"	PT	A	1	HM	PT	A	A	D	05	
104	JANITOR'S CLOSET	•		•		F	HM	-	6' - 0"	7' - 0"	PT	-	2	HM	PT	В	В	A	08A	
105	OFFICE	•		•		С	HM		3' - 0"	7' - 0"	PT	A	EXG	EXG	PT	EXG	EXG	D	01	
106A	ACTIVITIES ROOM	•			•	G	SS	-	7' - 0"	7' - 6"	PT	-	EXG	EXG	PT	EXG	EXG	EXG	07	REUSE EXG FRAME; PAT AND REPAIR NECESSARY PROVIDE ENTRANCE FLOOR MAT
106B	ACTIVITIES ROOM		•		•	EXG	SS	-	4' - 1"	7' - 4"	EXG	EXG	1	EXG	PT	EXG	EXG	EXG	10	PROVIDE ENTRANCE FLOOR MAT
106C	ACTIVITIES ROOM	•		•		C	HM	-	3' - 4"	7' - 4"	PT	-	1	HM	PT	A	A	D	02	
107	BREAK ROOM	•		•		С	HM	-	3' - 0"	7' - 0"	PT	A	1	HM	PT	В	В	D	01	
108	STORAGE	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	В	В	D	08	
110	WEST CORRIDOR		•		•	EXG	SS	-	3' - 7"	7' - 0"	EXG	EXG	EXG	EXG	PT	EXG	EXG	EXG	10	PROVIDE ENTRANCE FLOOR MAT
111	STORAGE	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	В	В	С	08	
112	RESTROOM	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	В	В	A	04	
113	RESTROOM	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	A	A	A	04	
114	RESTROOM	•		•		В	HM	-	3' - 0"	7' - 0"	PT	-	1	HM	PT	A	A	A	04	
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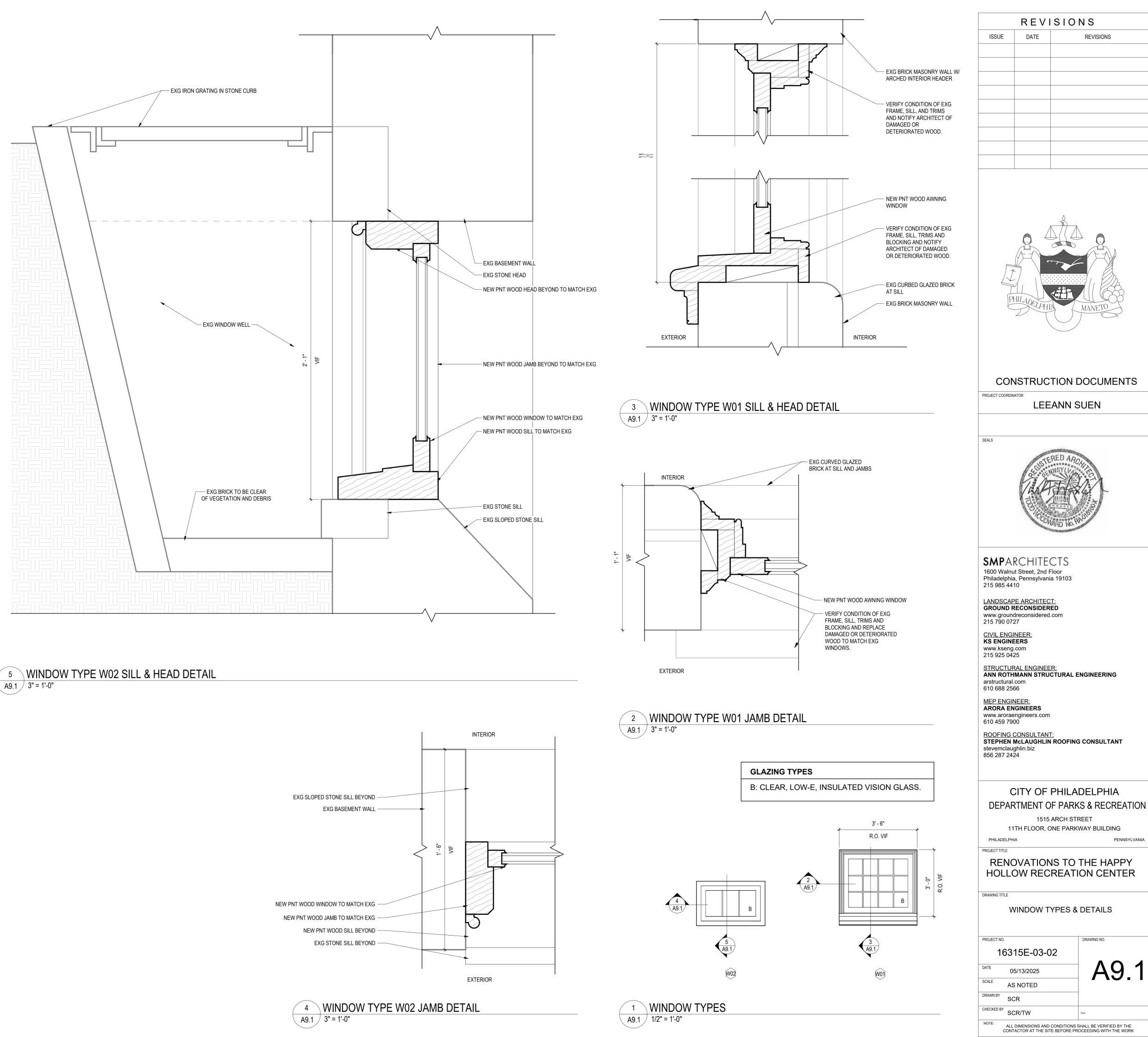
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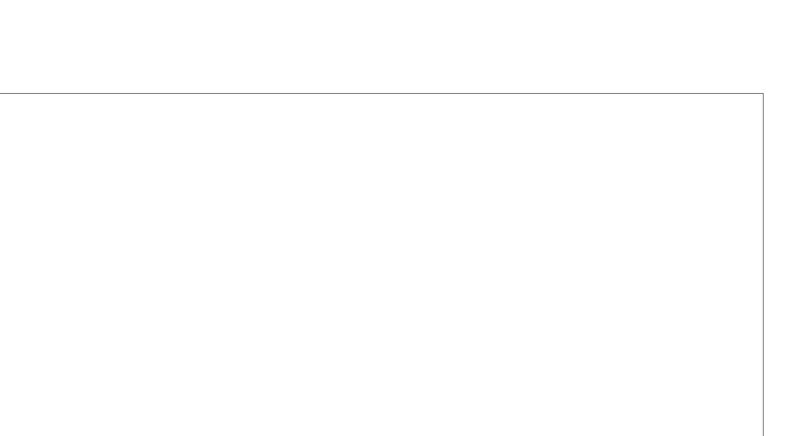
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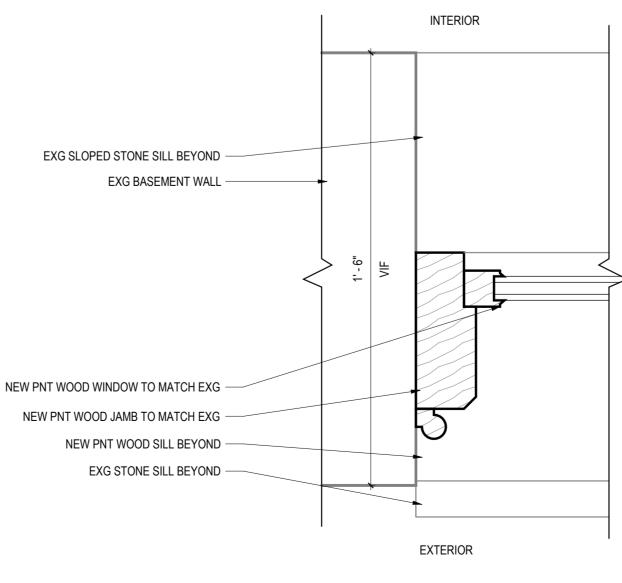


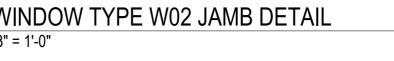
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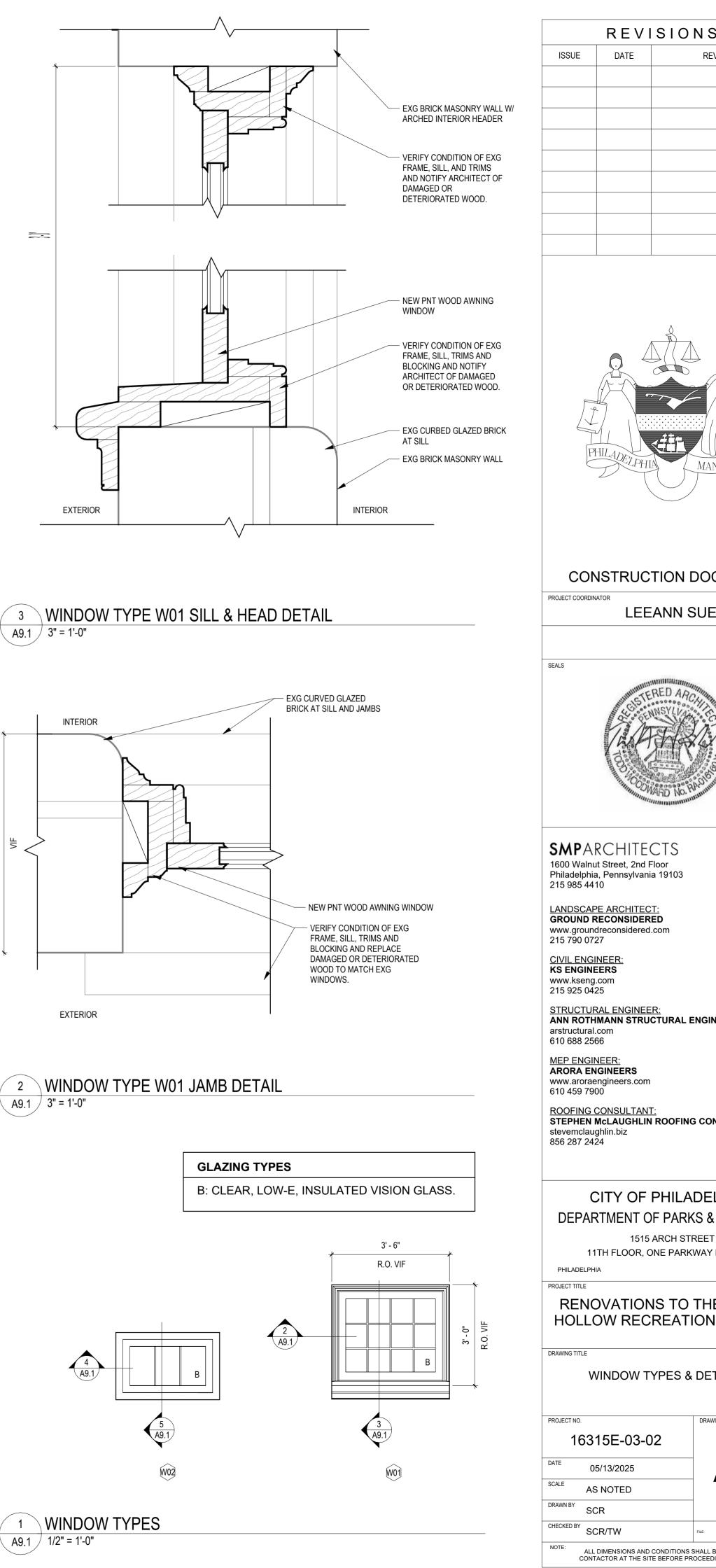




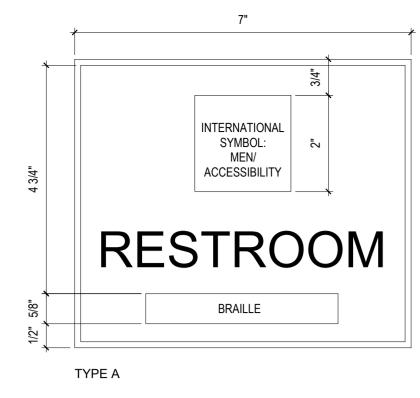


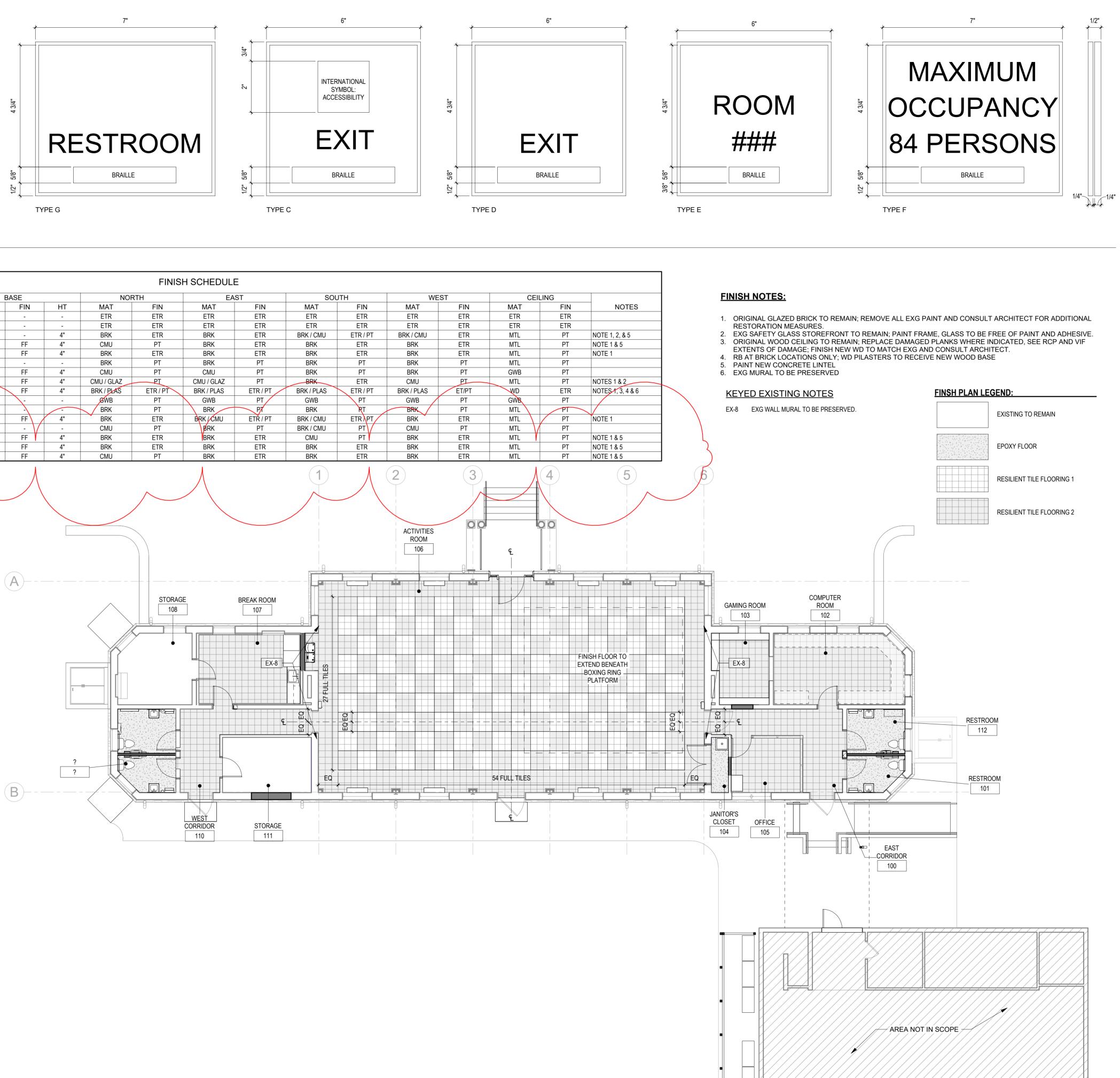






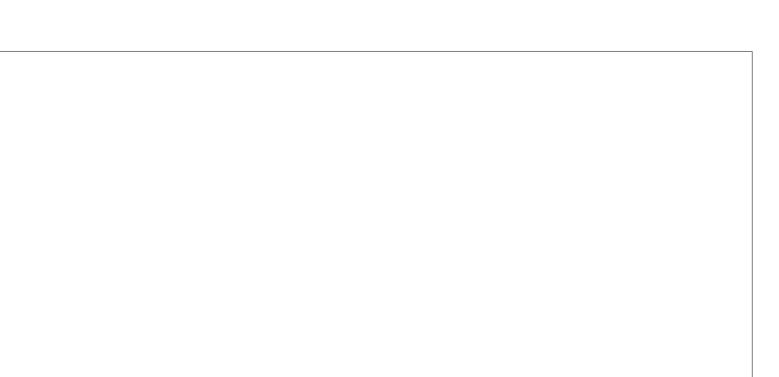
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## <sup>2</sup> SIGNAGE TYPES A9.2 6" = 1'-0"

								FIN
		ROOM	FLOOR		BASE		NOF	RTH
	NO	NAME	MAT	MAT	FIN	HT	MAT	FIN
	001	WEST BASEMENT	ETR	-	-	-	ETR	ETR
	002	EAST BASEMENT	ETR	-	-	-	ETR	ETR
	100	EAST CORRIDOR	RT 2	RB	-	4"	BRK	ETR
	101	RESTROOM	EPX	EPX COVE	FF	4"	CMU	PT
	102	COMPUTER ROOM	RT 2	RB	FF	4"	BRK	ETR
	103	GAMING ROOM	ETR	ETR	-	-	BRK	PT
	104	JANITOR'S CLOSET	EPX	EPX COVE	FF	4"	CMU	PT
^	105	OFEICE	RT2	RB	FF	4"	CMU / GLAZ	PI
	106	ACTIVITIES ROOM	RT 1/RT 2	RB	FF	4"	BRK / PLAS	ETR / PT
	107	BREAK ROOM	ETR	ETR		-	ØWB	PT
	108	STORAGE	ETR	-	-	-	BRK	PT
	110	WEST CORRIDOR	RT 2	RB	FF	4"	BRK	ETR
	111	STORAGE	ETR	-	- \/	-	CMU	PT
	112	RESTROOM	EPX	EPX COVE	FF	4"	BRK	ETR
(	113	RESTROOM	EPX	EPX COVE	FF	4"	BRK	ETR
<u>}</u>	114	RESTROOM	EPX	EPX COVE	FF	4"	CMU	PT
	DOOR NO.	I	GN TYPE					
	FIRST FLOOR FFE							
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	106A	ACTIVITIES ROOM TYPE						
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	104	OFFICE TYPE					┤║╻	
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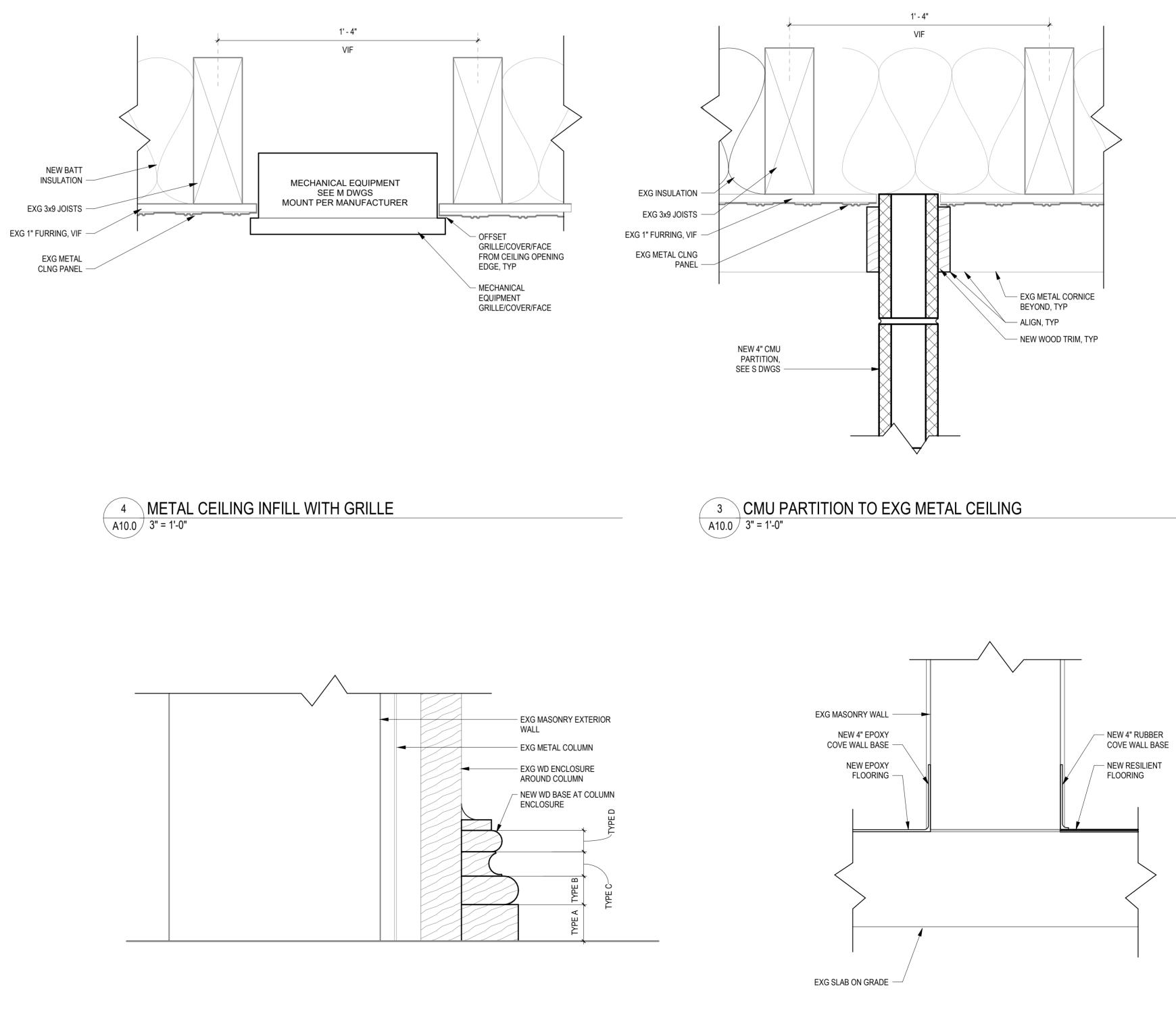


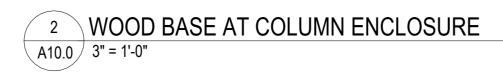


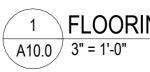
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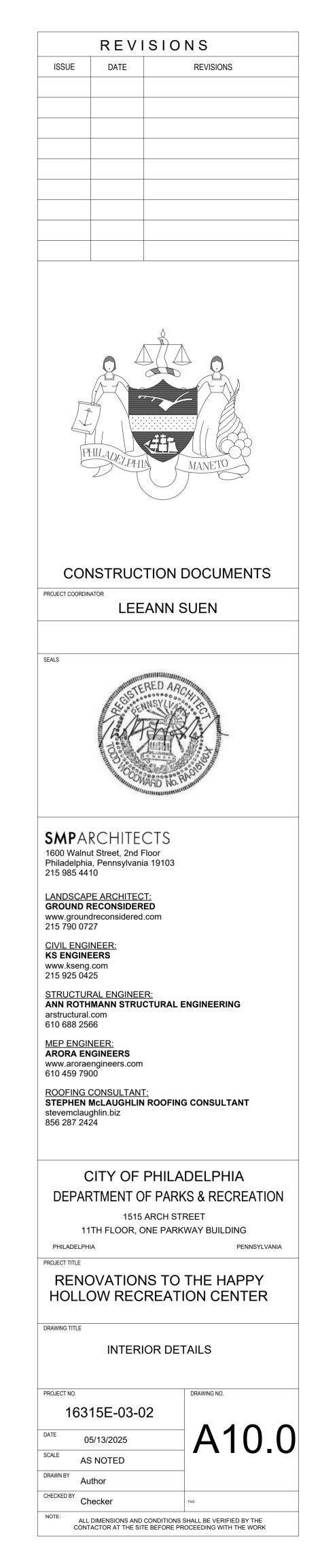
REVISIONS ISSUE DATE REVISIONS 06/30/2025 REVISION 1 1 CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN SEALS **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA PROJECT TITLE RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER DRAWING TITLE FINISH PLANS & SCHEDULE, SIGNAGE PROJECT NO. DRAWING NO. 16315E-03-02 A9.2 DATE 05/13/2025 SCALE AS NOTED DRAWN BY SCR CHECKED BY SCR/TW NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

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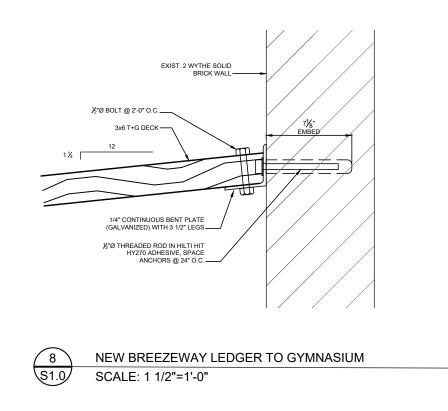


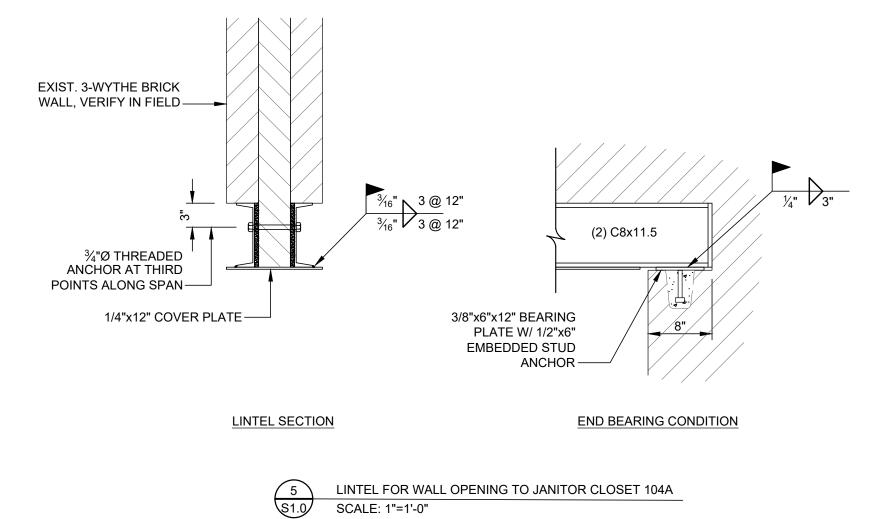


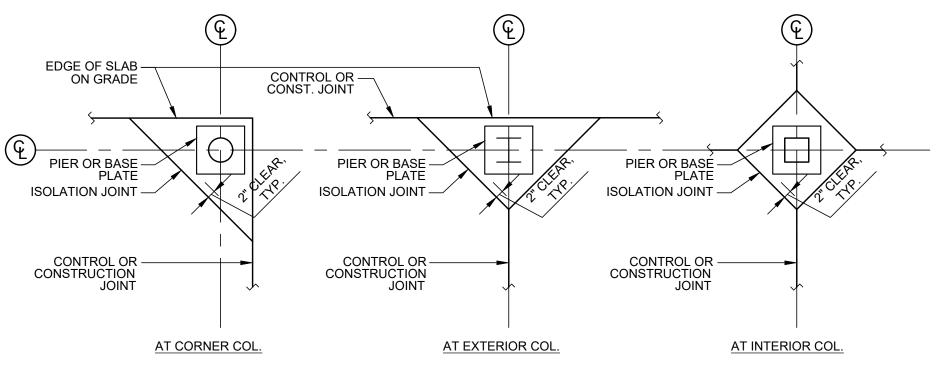


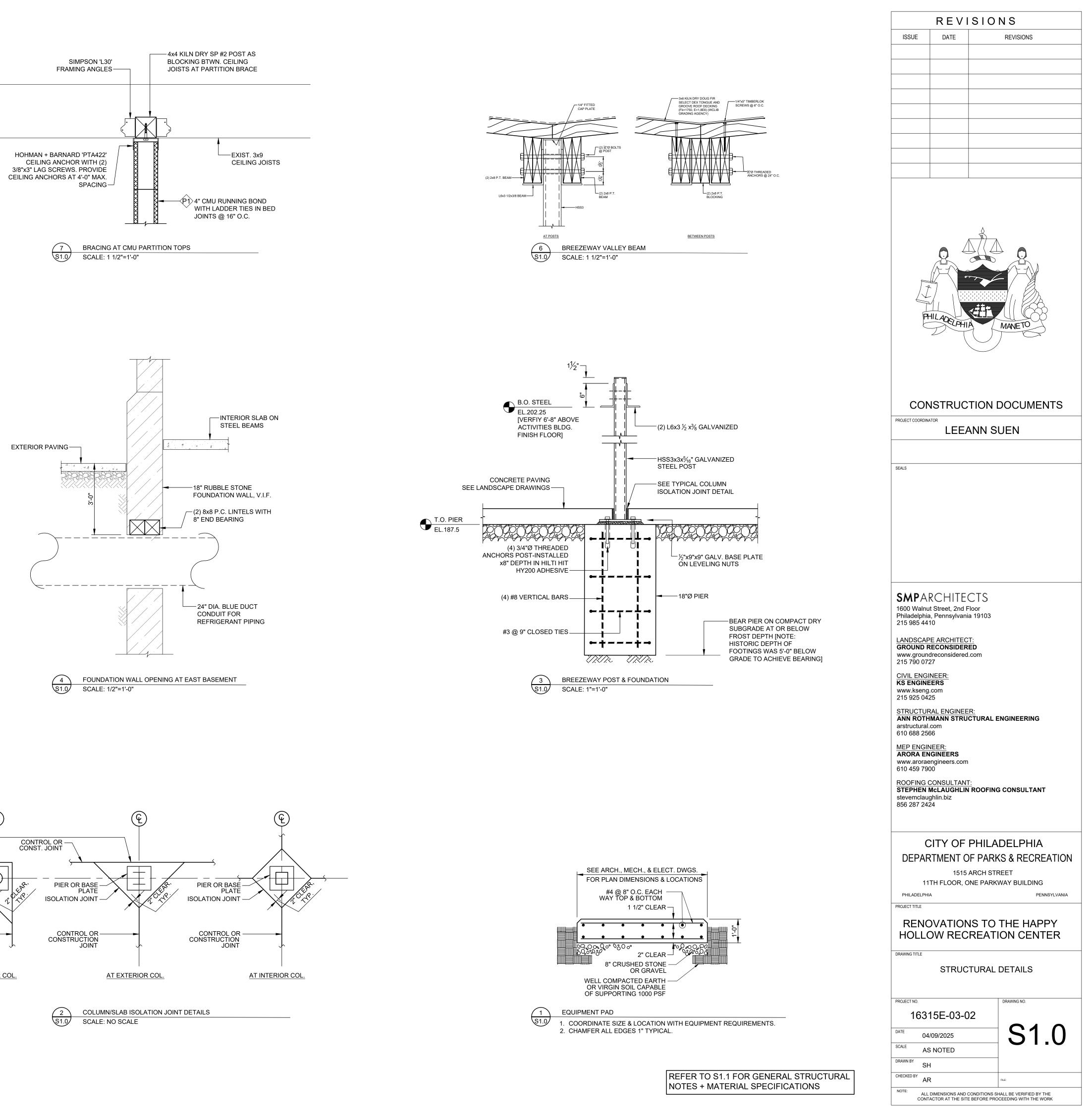


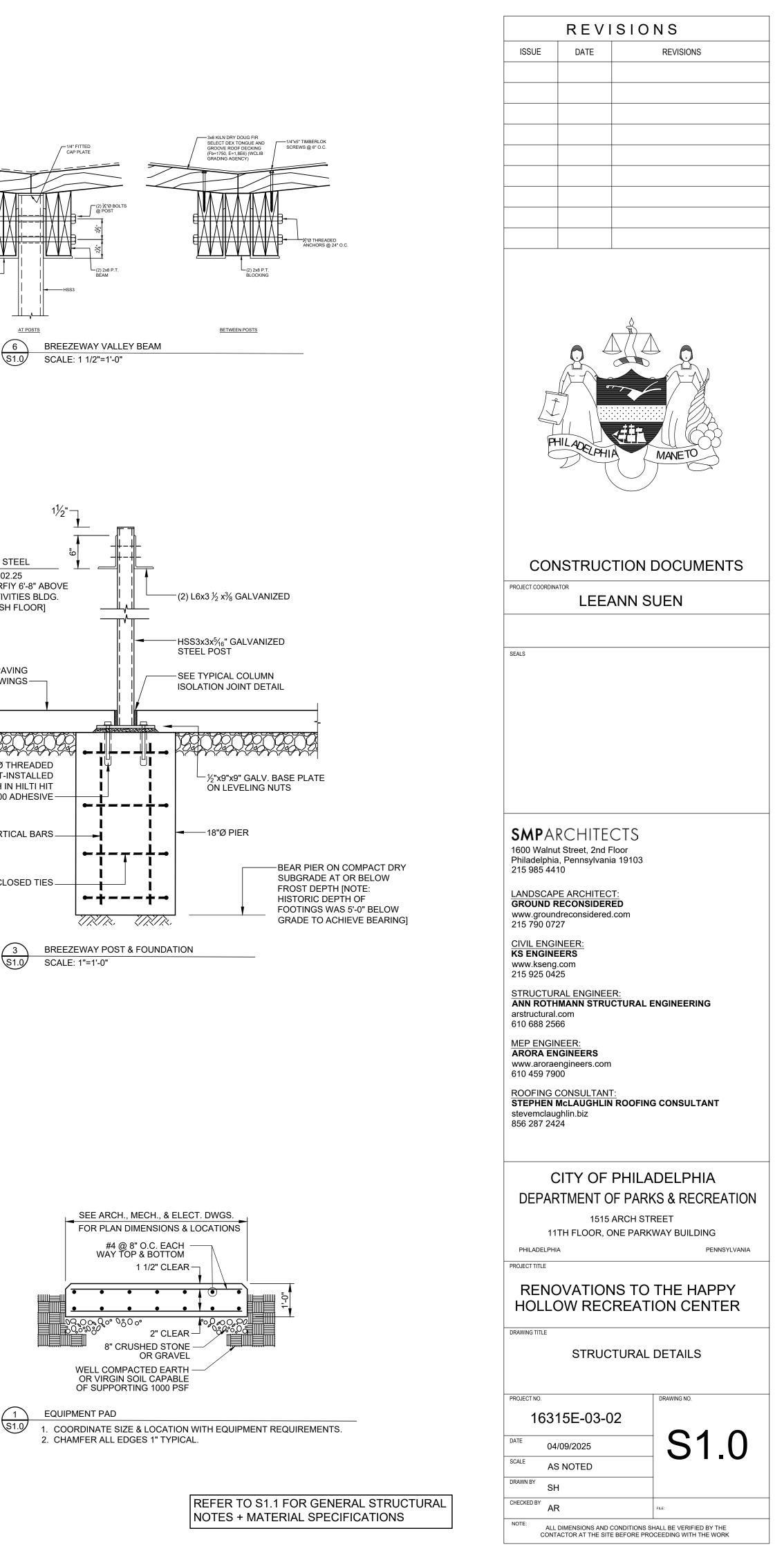
## 1 FLOORING AND BASE DETAILS

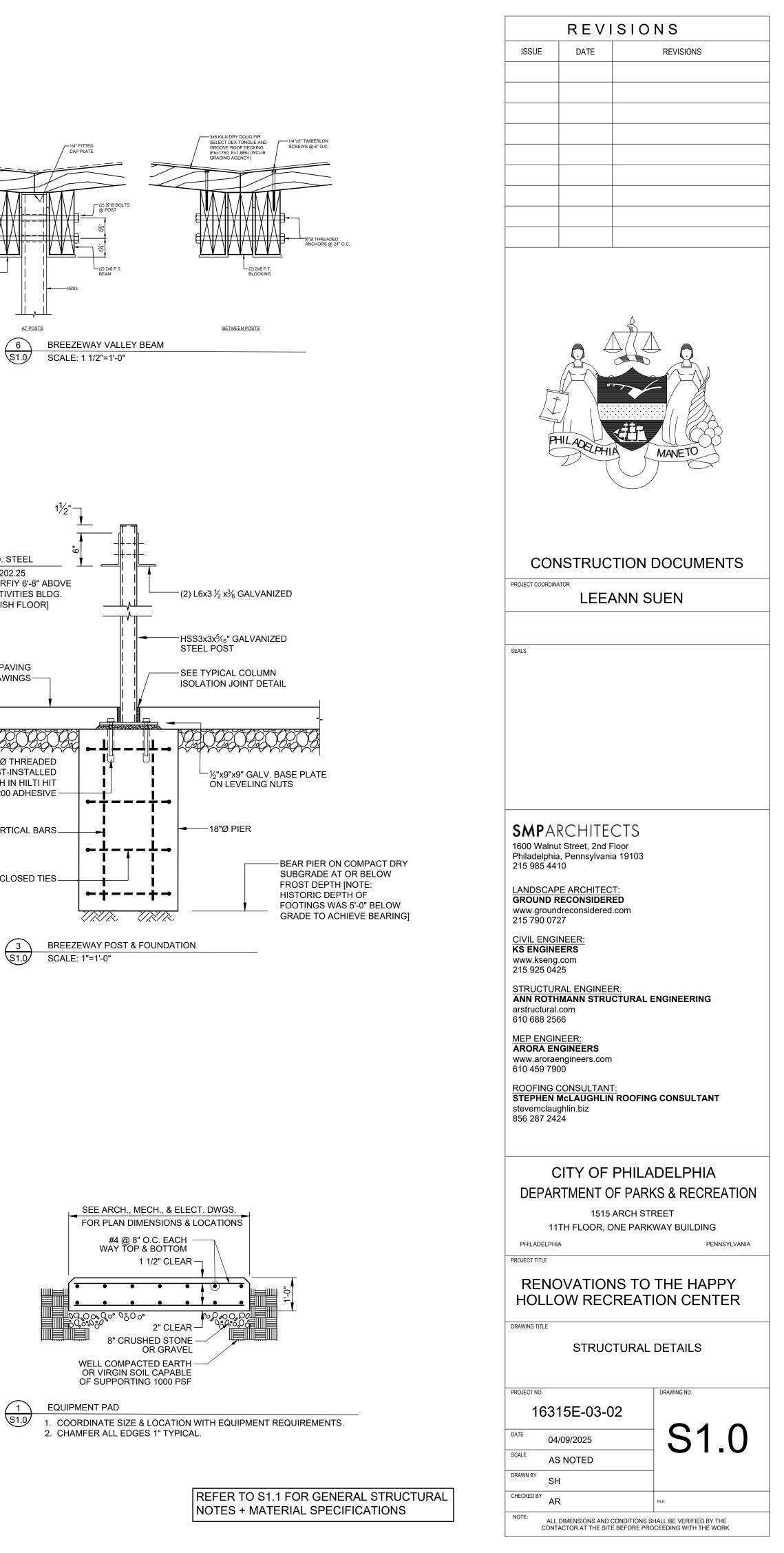












1. THIS PROJECT HAS BEEN DESIGNED USING THE 2018 INTERNATIONAL BUILDING CODE (IBC), AND APPLICABLE LOCAL REGULATIONS

- 2. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS
- 3. STRUCTURAL SPECIAL INSPECTIONS ARE A REQUIREMENT FOR THIS PROJECT. A QUALIFIED INDEPENDENT INSPECTION AGENCY REGISTERED WITH THE CITY OF PHILADELPHIA SHALL BE SELECTED TO PERFORM THESE SERVICES. ALL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC ARE REQUIRED, AS A MINIMUM. SEE MATERIAL NOTES FOR SPECIFIC INSPECTIONS REQUIRED.
- 4. THIRD PARTY SPECIAL INSPECTIONS SHALL BE PERFORMED FOR THIS PROJECT AS FOLLOWS, AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS: VISUAL INSPECTION OF FIELD CONNECTIONS STRUCTURAL STEEL (AISC 360) PERIODIC

STRUCTURAL STEEL (AISC 300)	VISUAL INSPECTION OF FIELD CONNECTIONS
STRUCTURAL STEEL (AISC 360)	VISUAL INSPECTION OF FABRICATION, UNLESS
	FABRICATOR IS AISC CERTIFIED
CONCRETE MATERIAL TESTS (ACI)	VERIFY DESIGN MIX; SAMPLE AND TEST CONCRETE
POST-INSTALLED ANCHOR INSTALLATION	HORIZONTAL & OVERHEAD INSTALLATION
POST-INSTALLED ANCHOR INSTALLATION	DOWNWARD

- POST-INS CONTINUOUS POST-INS PERIODIC SITE SOIL CONDITIONS BENEATH SHALLOW FOUNDATIONS PERIODIC 5. THE INDEPENDENT INSPECTIONS AGENCY SHALL PERFORM INSPECTIONS AND SUBMIT REPORTS THE ENGINEER OF RECORD (EOR) WITHIN 72 HOURS OF INSPECTION. ANY INADEQUACIES FOUND BY THE INSPECTOR SHALL BE
- REPORTED TO THE EOR WITHIN 24 HOURS. THE CONTRACTOR SHALL FACILITATE THESE INSPECTIONS BY SCHEDULING THE INSPECTIONS TO COORDINATE WITH THE WORK BEING PERFORMED BY THEIR SUB-CONTRACTORS. 6. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION OF FALSE WORK, FORMWORK,
- STAGING, BRACING, SHEETING, AND SHORING, ETC. 7. WHERE NEW LOADS ARE BEING ADDED TO EXISTING STRUCTURE, THE INTEGRITY OF THE EXISTING STRUCTURE AND FOUNDATIONS SHALL BE VERIFIED BY THE CONTRACTOR. REPORT ANY CRACKING, SETTLEMENT, DETERIORATION, AND SUBSTANDARD QUALITY OF EXISTING CONSTRUCTION OR MATERIALS SHALL BE REPORTED TO THE OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- 8. TAKE FIELD MEASUREMENTS AND VERIFY DIMENSIONS ON DRAWINGS BEFORE ORDERING MATERIALS.
- 9. NOTIFY ENGINEER IMMEDIATELY IF ANY EXISTING CONDITIONS CONFLICT WITH STRUCTURAL INFORMATION SHOWN IN THE CONSTRUCTION DOCUMENTS.
- 10.IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11.IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT A REQUEST FOR CLARIFICATION.

#### FOUNDATIONS

- 1. BUILDING FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL HAVING MINIMUM BEARING CAPACITY OF 2500 PSF.
- ADJUST BOTTOM OF FOOTING ELEVATIONS AS REQUIRED TO BEAR ON UNIFORMLY DENSE INORGANIC SUBGRADE. 2. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE SPECIAL INSPECTOR.
- ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 3'-0" BELOW FINAL GRADE.
- 4. EXCAVATIONS FOR ANY PURPOSE SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOOTING OR FOUNDATION WITHOUT PROTECTING THE FOOTING OR FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION. 5. SLABS ON GRADE SHALL BEAR ON SOIL COMPACTED TO 95% DRY DENSITY PER ASTM D1557. SLABS HAVE BEEN
- DESIGNED USING A MODULUS OF SUBGRADE REACTION OF 100 PSI/INCH. PROVIDE PADOT 2A WELL GRADED CRUSHED STONE AS A SUB-BASE WHEN EXISTING SOIL HAS BEEN DISTURBED.
- 6. PROVIDE DRAINAGE FILL BENEATH THE SLAB CONSISTING OF AT LEAST 6" OF AASHTO NO. 57 COMPACTED CRUSHED STONE.

#### CONCRETE

- 1. SUBMIT CONCRETE MATERIALS AND REBAR SHOP DRAWINGS FOR APPROVAL
- 2. CEMENT SHALL CONFORM TO ASTM C150, TYPE 1 OR II.
- 3. AGGREGATES SHALL CONFORM TO ASTM C33 (NORMAL WEIGHT)
- 4. CONCRETE FOR EXTERIOR CONSTRUCTION SHALL BE AIR-ENTRAINED, 4% 6%. CONFORM TO ASTM C260.
- 5. CONCRETE ADMIXTURES CONTAINING CALCIUM CHLORIDE OR OTHER CHLORIDE SALTS SHALL NOT BE USED, EXCEPT WHEN WATER SOLUBLE CHLORIDE ION CONTENT IS LIMITED TO 0.30 PERCENT BY WEIGHT OF CEMENT.
- 6. CONCRETE COMPRESSIVE STRENGTH (F'C) AT 28 DAYS SHALL BE: 4000 PSI.
- 7. GROUT BENEATH BASE PLATES, SHALL BE NON-SHRINK (ASTM C1107) WITH A ONE DAY COMPRESSIVE STRENGTH OF 3000 PSL
- 8. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI MANUAL OF STANDARD PRACTICE (ACI 315), LATEST EDITION. 9. WELDED WIRE REINFORCING (WWR) SHALL CONFORM TO ASTM A185, WITH A MINIMUM ULTIMATE TENSILE STRENGTH
- OF 70,000 PSI. WWR SHALL BE GALVANIZED. 10.WELDED WIRE REINFORCING SHALL BE SUPPLIED IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE
- TOGETHER. 11.REINFORCING SPLICES SHALL BE LAPPED IN ACCORDANCE WITH ACI MINIMUMS. MAKE BARS CONTINUOUS AROUND
- CORNERS. LAPS SHALL, IN NO CASE, BE LESS THAN 48 BAR DIAMETERS.
- 12.THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT: CONCRETE CAST AGAINST THE EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER 1-1/2" (#5 BAR OR SMALLER), 2" (#6 BAR OR LARGER) INTERIOR CONCRETE SLABS, TOP SURFACE <sup>3</sup>/<sub>4</sub>"
- 13.CONCRETE SLABS ON GRADE SHALL BE 4" THICK, POURED OVER A 6" LAYER OF POROUS FILL. PROVIDE 66 W2.0 X W2.0 WELDED WIRE REINFORCING PLACED 1" FROM TOP OF SLAB. PROVIDE A 10 MIL. POLYETHYLENE VAPOR BARRIER BENEATH ALL INTERIOR SLABS.
- 14.INSTALL WELDED WIRE REINFORCEMENT IN LONGEST PRACTICABLE LENGTHS ON BAR SUPPORTS SPACED TO MINIMIZE SAGGING. LAP EDGES AND ENDS OF ADJOINING SHEETS AT LEAST ONE MESH SPACING. OFFSET LAPS OF ADJOINING SHEET WIDTHS TO PREVENT CONTINUOUS LAPS IN EITHER DIRECTION. LACE OVERLAPS WITH WIRE.
- 15. WHEN CONCRETE IS PLACED AT OR BELOW A TEMPERATURE OF 400F OR WHEN THIS TEMPERATURE IS LIKELY TO OCCUR WITHIN 24 HOURS OF PLACEMENT, PROTECT IN ACCORDANCE WITH ACI 306, "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING". DO NOT PLACE CONCRETE IN WATER OR ON SNOW, ICE OR FROZEN OR WATER SOFTENED GROUND.
- 16.WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD SERIOUSLY IMPAIR QUALITY AND STRENGTH OF CONCRETE.
- PLACE CONCRETE IN COMPLIANCE WITH ACI 305, "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING". 17.IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING. PRESERVE MOISTURE IN CONCRETE FOR AT LEAST 3 DAYS AFTER PLACEMENT BY EITHER: CONTINUOUS SPRINKLING. APPLICATION OF WET MATS, OR APPLICATION OF AN APPROVED CURING COMPOUND.
- 18.CONDUITS, PIPES AND SLEEVES SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THICKNESS OF THE CONCRETE IN WHICH THEY ARE EMBEDDED, UNO. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE (3) SLEEVE DIAMETERS.
- 19. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. INSTALLER SHALL BE TRAINED BY MANUFACTURER ON INSTALLATION PROCEDURES. CLEAN HOLE FREE OF DUST, DEBRIS, AND MOISTURE. USE COMPRESSED AIR AND WIRE BRUSH, IN ACCORDANCE WITH MANUFACTURERS PROCEDURES.

VERIFY THAT ADHESIVES TO BE USED, ARE WITHIN EXPIRATION DATE. PROVIDE HILTI OR APPROVED ALTERNATIVE. 20.CHAMFER ALL EXPOSED CONCRETE CORNERS, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

- 21.PROVIDE CRACK CONTROL JOINTS (OF DEPTH = 1/4 THE SLAB THICKNESS) FOR SLABS ON GRADE AT 15 FEET O.C. MAXIMUM SPACING. AT UNEXPOSED SLABS, JOINTS SHALL BE SAW-CUT WITHIN THE FIRST 12 HOURS OF CONCRETE PLACEMENT. AT EXPOSED SLABS, JOINTS SHALL BE FORMED.
- 22. WHERE SLABS ABUT MASONRY OR CONCRETE WALLS, PROVIDE 1/2" THICK PRE-MOLDED JOINT FILLER AT INTERFACE. 23.ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.
- 24.THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL TO WITHIN ASTM E1155 TOLERANCE, [ FLATNESS: OVERALL F35; LOCAL F24. LEVELNESS: OVERALL F25; LOCAL F17], TO THE ELEVATION INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO SUB GRADE VARIATION, OR FORMWORK AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION.

#### CONCRETE MASONRY

- 1. SUBMIT MASONRY MATERIALS FOR APPROVAL. 2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, WITH 3250 PSI UNIT STRENGTH. COMPLETED WALLS
- SHALL HAVE A COMPRESSIVE STRENGTH OF F'M = 2500 PSI ON NET AREA.
- 3. USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR
- GROUTING AND REINFORCING STEEL PLACEMENT.
- 4. MORTAR SHALL BE ASTM C270, TYPE S.
- 5. GROUT SHALL CONFORM TO ASTM C476, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. ADMIXTURES
- CONTAINING CALCIUM CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED. 6. GROUT SHALL BE A PEA GRAVEL HIGH SLUMP MIX, GROUT SLUMP SHALL BETWEEN 8 TO 11", WITHOUT ADMIXTURES.
- 7. SUBMIT GROUT MIX DESIGN AND MASONRY UNIT CERTIFICATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- 8. ASSEMBLE MASONRY UNITS IN RUNNING BOND.

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- 9. ALL CONCRETE BLOCK AT OR BELOW GRADE SHALL BE FILLED SOLID WITH GROUT.
- 10.ALL CONCRETE MASONRY SHALL HAVE GALVANIZED TRUSS OR LADDER TYPE, 9 GAGE, HORIZONTAL JOINT REINFORCEMENT CONFORMING TO ASTM A82, SPACED @ 16" O.C. VERTICALLY. PROVIDE CONTINUOUS
- REINFORCEMENT UNITS AROUND CORNERS. 11.LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION SHALL BE 50 BAR DIAMETERS.
- 12.CONVENTIONAL GROUT SHALL NOT BE SUBJECT TO DROPS IN EXCESS OF 5'-4" FEET. VIBRATE TO FILL VOIDS
- COMPLETELY. DO NOT USE VIBRATOR TO TRANSPORT GROUT. 13.HIGH LIFT GROUTING METHODS MAY BE USED WITH SELF-CONSOLIDATING GROUT, CONFORMING TO (ASTM C1157).
- PROVIDE CLEAN OUT OPENINGS AT BASE OF ALL GROUTED COLUMNS. 14.BRACE NEW MASONRY WALL TO INTERSECTING EXISTING WALLS WITH HOHMANN & BARNARD SLIP-SET STABILIZER
- GALVANIZED TIES @ 16" VERTICAL SPACING. PROVIDE 1/2" COMPRESSIBLE FILLER JOINT WITH SEALANT AND BACKER ROD.
- 15.SHORE FRAMING DURING INSTALLATION OF LINTELS.
- 16.SAW CUT MASONRY TO INSTALL NEW PRECAST CONCRETE LINTELS.

- BRICK MASONRY VENEER

- BELOW GRADE AND WEEP ABOVE GRADE.

- BRICK MASONRY REPAIRS
- ORIGINAL BRICK AND MORTAR.
- OF SUCCESSFUL WORK OF SIMILAR SCOPE.
- 5. REPLACE MISSING, CRACKED, OR OTHERWISE DAMAGED BRICKS.

- OF ALL DEBRIS.
- 11", WITHOUT ADMIXTURES.
- MORE THAN 1/2 THE TOTAL DEPTH OF THE JOINT. 11.USE HAND TOOLS TO PREVENT DAMAGE TO BRICKWORK.
- 12.MIX ALL CEMENTITIOUS MATERIALS AND AGGREGATES BETWEEN 3 AND 5 MINUTES IN A MECHANICAL BATCH MIXER WITH A SUFFICIENT AMOUNT OF WATER TO PRODUCE A WORKABLE CONSISTENCY. DISCARD ALL MORTAR WHICH IS NOT USED WITHIN 2-1/2 HOURS AFTER INITIAL MIXING.
- 13.CLEAN ALL MASONRY UNITS OF MATERIALS THAT WOULD AFFECT OR REDUCE THE BOND AT THE TIME MORTAR IS PLACED.
- 14.COLLAR JOINTS WIDER THAN <sup>3</sup>/<sub>4</sub>" REQUIRE GROUT INSTEAD OF MORTAR. MOISTURE PENETRATION

### 16.SHORE FRAMING DURING INSTALLATION OF LINTELS.

- **RUBBLE STONE MASONRY**

- NOT USED WITHIN 2-1/2 HOURS AFTER INITIAL MIXING.
- MORTAR IS PLACED.
- 4. MORTAR BED JOINT THICKNESS SHALL BE AT LEAST TWICE THE THICKNESS OF THE EMBEDDED ANCHOR, (5/16" MINIMUM JOINT).
- VERTICALLY AND HORIZONTALLY.
- 6. COLLAR JOINTS WIDER THAN 3/4" REQUIRE GROUT INSTEAD OF MORTAR.

## POST-INSTALLED ANCHORS IN MASONRY

PROCEDURES.

STEEL

EDITION.

ENGINEER FOR RECORD.

CENTER OF BOLTS TO EDGE OF STEEL.

STANDARD CODE.

ASTM A123

ZINC RICH COATING.

11.PRIOR TO FIELD WELDING, GALVANIZED MEMBERS SHALL HAVE ZINC COATING GROUND SMOOTH IN WELD AREAS,

6. WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE A.W.S. SUBMIT WELDER CERTIFICATES TO

5. ANCHORAGE BOLTS AND FITTINGS IN MASONRY SHALL BE GALVANIZED.

4. BOLTS TO BE USED ON THE EXTERIOR SHALL BE HOT DIPPED GALVANIZED AND FIELD PAINTED.

E. ANCHOR BOLTS AND CONNECTORS IN WOOD FRAMING: ASTM A307, (3/4" DIAM.), U.N.O.

D. BOLTED CONNECTIONS (STEEL TO STEEL): ASTM A325-N, (3/4" DIAM.), U.N.O.

7. WELDING ELECTRODES SHALL BE ASTM A233, CLASS E70XX. ALL WELDING SHALL CONFORM TO THE A.W.S.

9. MINIMUM CENTER-CENTER SPACING BETWEEN BOLTS SHALL BE 3". MINIMUM EDGE DISTANCE SHALL BE 1-1/4" FROM

10.WHERE GALVANIZED STEEL IS NOTED ON DRAWINGS, PROVIDE BATCH HOT-DIP GALVANIZING IN ACCORDANCE WITH

(ZINC COATING IS NOT TO CONTAMINATE WELD FUSION METAL). AFTER WELDING, COAT AFFECTED SURFACE WITH

[STD. = SCHEDULE 40; XS = SCHEDULE 80; DS = SCHEDULE 160]

C. STEEL PIPE SHALL CONFORM TO ASTM A53 TYPE E GRADE B SPECIFICATIONS.

B. HSS STRUCTURAL TUBING: ASTM A500 GRADE B, FY=46 KSI.

A. PLATES AND ANGLES: ASTM A36, FY=36 KSI. B. W, WT & C SHAPES: ASTM A992, FY=50 KSI.

1. SUBMIT STEEL FABRICATION AND ERECTION DRAWINGS FOR APPROVAL.

8. ALL SHOP AND FIELD WELDS SHALL BE 1/4" FILLET WELDS MINIMUM, U.N.O.

2. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS: A. AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," CURRENT EDITION. B. THE AMERICAN WELDING SOCIETY (AWS D1.1) "CODE FOR WELDING IN BUILDING CONSTRUCTION," CURRENT 3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

VERIFY THAT ADHESIVES TO BE USED, ARE WITHIN EXPIRATION DATE. PROVIDE HILTI OR APPROVED ALTERNATIVE.

2. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DAMAGING EXISTING MASONRY. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS. INSTALLER SHALL BE TRAINED BY MANUFACTURER ON INSTALLATION PROCEDURES. CLEAN HOLE FREE OF DUST,

DEBRIS, AND MOISTURE. USE COMPRESSED AIR AND WIRE BRUSH, IN ACCORDANCE WITH MANUFACTURERS

ACCREDITED TESTING AGENCY, OR BY HILTI, INC.], TO TEST A REPRESENTATIVE SAMPLE OF 1-3 TEST ANCHORS IN EACH AREA DESIGNATED FOR ANCHORING. NOTIFY ENGINEER OF RECORD TO BE ON SITE TO OBSERVE AND REPORT ON TESTING. TESTING SHALL BE TO 2 X THE DESIGN TENSILE LOAD OF ANCHORS.

1. PRE-CONSTRUCTION LOAD TESTING IS REQUIRED FOR EXPANSION AND ADHESIVE ANCHORS BEING INSTALLED INTO EXISTING MASONRY. TESTING SHALL BE PERFORMED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF PENNSYLVANIA. THE GENERAL CONTRACTOR SHALL FACILITATE TESTING BY AN APPROVED ACI

5. RUBBLE STONE MASONRY, OF MULTIPLE WYTHES, SHALL HAVE BONDER UNITS WITH A MAXIMUM SPACING OF 3 FEET

3. CLEAN ALL STONES AND REINFORCEMENT OF MATERIALS THAT WOULD AFFECT OR REDUCE THE BOND AT THE TIME

WITH A SUFFICIENT AMOUNT OF WATER TO PRODUCE A WORKABLE CONSISTENCY. DISCARD ALL MORTAR WHICH IS

CEMENT TO (1) PARTS LIME. NO AIR ENTRAINING SHALL BE PERMITTED. LIMIT AIR CONTENT TO 8%. 2. MIX ALL CEMENTITIOUS MATERIALS AND AGGREGATES BETWEEN 3 AND 5 MINUTES IN A MECHANICAL BATCH MIXER

1. MORTAR FOR STONE MASONRY SHALL BE TYPE N AND SHALL CONFORM TO ASTM C270. PROVIDE MINIMUM COMPRESSIVE STRENGTH OF MORTAR AT 28 DAYS: 750 PSI. IN NO CASE SHALL CEMENT RATIO EXCEED (1) PARTS

15.USE TOOLED CONCAVE OR VEE-STRUCK MORTAR JOINTS AT EXTERIOR FACE OF WALLS FOR RESISTANCE TO

10.PREPARE MASONRY JOINTS FOR REPOINTING BY CUTTING OUT EXISTING MORTAR TO A DEPTH OF AT LEAST 5/8". IF THE MORTAR IS UNSOUND, THE JOINT SHOULD BE CUT DEEPER UNTIL ONLY SOUND MATERIAL REMAINS, BUT NOT

8. MORTAR USED BELOW GRADE ON EXTERIOR, SHALL BE ASTM C270, TYPE S, (INCREASED CEMENT TO LIME RATIO). 9. GROUT SHALL BE A PEA GRAVEL HIGH SLUMP MIX, CONFORM TO ASTM C476. GROUT SLUMP SHALL BETWEEN 8 TO

SPECIFIED IN ASTM C270, AND REFERENCED IN SPECIFICATION ACI 530.1 7. REPLACEMENT BRICKS SHALL BE HIGH-FIRED EXTERIOR GRADE BRICK, AND SHALL MATCH THE DIMENSIONS OF

TYPICAL IN-PLACE BRICKS. BRICKS MAY BE RECYCLED, OR NEW. BRICKS SHALL BE WIRE BRUSH CLEANED AND FREE

6. PROVIDE SOFT, HIGH-LIME, TYPE N MORTAR FOR REPOINTING HISTORIC BRICKWORK. CONFORM TO PROPORTIONS

3. REPOINTING BRICKWORK SHALL BE UNDERTAKEN BY AN EXPERIENCED BRICK MASON, WITH A MINIMUM OF 5 YEARS 4. REPOINTING SHALL BE UNDERTAKEN WHEN THE WALL TEMPERATURES ARE BETWEEN 40 AND 95 DEGREES (F).

2. REPOINT EXISTING HISTORIC BRICK MASONRY WITH MORTAR THAT IS COMPATIBLE IN TEXTURE AND CONTENT WITH

MORTAR, CRACKS IN MORTAR JOINTS, LOOSE BRICKS, DAMP WALLS, OR DAMAGED PLASTERWORK.

1. REPOINT BRICK MASONRY IN AREAS WHERE THE FOLLOWING SIGNS OF DETERIORATION EXIST: DISINTEGRATING

BACK UP. SPACE ANCHORS AT A MAXIMUM OF 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY. GROUT CAVITY

2. PROVIDE 3/8" GROUTED COLLAR JOINT BETWEEN BRICK AND CMU WYTHES.

17.PRECAST LINTELS SHALL BE PLACED IN FULLY MORTARED BED AND HEAD JOINTS. THE ENDS OF THE UNITS SHALL BE

**FRAMING LUMBER & SHEATHING** 

BEARING.

TREATED LUMBER.

SURFACED DRY. MOISTURE CONTENT NOT TO EXCEED 19%.

GRADE NO.2, HEM-FIR, SPRUCE-PINE-FIR, OF SOUTHERN PINE.

STAGGER OPPOSITE FACES, AND WITHIN 1-1/2" OF MEMBER ENDS.

DIMENSION LUMBER AT EXTERIOR EXPOSED CONDITIONS.

DIMENSION LUMBER, AT INTERIOR CONDITIONS.

CONTENT MEETS EQUILIBRIUM CONDITIONS.

CONTINUOUSLY ALONG THE COMPRESSION FACE.

GLUE AND SHALL BE OF THE FOLLOWING THICKNESS:

INDEX STAMP SHALL BE VISIBLE ON ALL SHEETS.

PRESERVERS ASSOCIATION (AWPA) STANDARD.

USE CATEGORY 4A FOR WOOD IN CONTACT WITH GROUND.

LIVE LOAD

100 PSF

20 PSF

25 PSF

1-5/8" PENETRATION INTO LUMBER.

STRUCTURAL DESIGN CRITERIA

DESIGN LOADS

GROUND SNOW LOAD

MAIN FLOOR:

WIND SPEED:

ROOF:

FLOOR: 23/32" THICK, EXPOSURE 1, SPAN RATING 48/24.

ROOF: 19/32" THICK, EXPOSURE 1, STRUCTURAL 1, SPAN RATING 40/20.

11.USE PLYCLIPS OR OTHER EDGE SUPPORT AS REQUIRED FOR ROOF SHEATHING.

115 MPH, EXPOSURE B

USE CATEGORY 3B FOR EXPOSED EXTERIOR WOOD, NOT IN CONTACT WITH GROUND.

LUMBER AND SHEATHING SHALL BE VISIBLY STAMPED WITH AWPA USE CATEGORY STAMP.

PROTECT SHEATHING FROM EXTENSIVE EXPOSURE TO WEATHER.

COMPLETELY BUTTERED. PROVIDE 8" LENGTH OF BEARING AT EACH END.

18.MASONRY JOINTS ON EXTERIOR FACE SHALL BE TROWELLED FLUSH TO PROVIDE A SMOOTH BASE FOR STUCCO. 1. BRICK VENEER ANCHORS TO MASONRY BACK-UP SHALL BE HOHMANN & BARNARD HB-5213 ADJUSTABLE VENEER ANCHOR, WITH THERMAL BREAK, OR EQUAL. PROVIDE 2" CLEAR CAVITY BETWEEN BRICK VENEER AND MASONRY

GRADE NO.2, PRESSURE TREATED, SOUTHERN PINE OR EQUAL. PROVIDE LUMBER STAMPED KDAT (KILN-DRIED AFTER TREATMENT). ALTERNATIVELY, SEASON THE LUMBER FOR SEVERAL MONTHS AFTER TREATMENT, SO MOISTURE

2. STORE FRAMING AND SHEATHING MATERIALS IN DRY LOCATION. REMOVE STANDING WATER FROM INSTALLED SHEATHING. ENSURE INSTALLED LUMBER MOISTURE CONTENT IS 19% OR LESS, BEFORE INSTALLING HOLD DOWN ANCHORS, STRAPS, OR FINISHES THAT WOULD BE AFFECTED BY LUMBER SHRINKING OR EXPANDING.

3. FASTENING SHALL CONFORM TO A MINIMUM AS SPECIFIED IN TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE 4. BUILT-UP MULTI-MEMBER WOOD GIRDERS SHALL HAVE MEMBER JOINTS STAGGERED SUCH THAT NOT MORE THAN (1) MEMBER SPLICE OCCURS BETWEEN SUPPORT POINTS. ORIENT ADJACENT MEMBERS WITH ALTERNATE GRAINS, AND CONNECT MEMBERS WITH GALVANIZED NAILS: 10D (.148") X 3" COMMON FOR (2) MEMBERS, 16D (.162") X 3-1/2" COMMON FOR (3) MEMBERS, AND 20D(.192") X 4" COMMON FOR (4) MEMBERS. NAIL AT TOP AND BOTTOM @ 24" OC,

5. FLOOR JOISTS SHALL NOT BE CUT, NOTCHED OR BORED, IN EXCESS OF THE LIMITATIONS SPECIFIED IN IRC SECTION R502.8, (SEE ILLUSTRATION). MEMBERS THAT EXCEED THESE LIMITATIONS SHALL BE SISTERED FULL LENGTH TO

6. ALL FRAMING MEMBERS SHALL HAVE LATERAL SUPPORT SUPPLIED AT ALL BEARING POINTS AS WELL AS

7. PROVIDE SIMPSON LIGHT GAGE METAL CONNECTORS, OR APPROVED EQUAL, FOR ALL FLUSH FRAMING CONDITIONS. WHERE HANGER TYPE IS NOT SPECIFIED ON PLANS, PROVIDE HANGER CAPACITY EQUAL TO SHEAR CAPACITY OF FRAMING MEMBER. OR CONSULT ENGINEER. INSTALL ALL CONNECTORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NAILING SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED TABLES TO PROVIDE MAXIMUM HANGER CAPACITY, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE SIMPSON 'BC' POST BASES AND CAPS FOR ALL WOOD POSTS. PROVIDE 'ZMAX' ZINC COATED CONNECTORS AT ALL CONDITIONS IN CONTACT WITH

8. PLYWOOD OR OSB SHEATHING SHALL BE APA GRADE STAMPED FOR SPECIFIC SPAN, SHALL BE MADE WITH EXTERIOR

EXTERIOR WALLS WITHIN 8" OF EARTH: PROVIDE PRESERVATIVE TREATED EXTERIOR GRADE PLYWOOD

9. INSTALL PLYWOOD SHEATHING WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS, U.N.O. 10.FASTEN PLYWOOD ROOF SHEATHING TO FRAMING WITH 10D COMMON [.148"] NAILS @ 6" OC AT PANEL EDGES & 12" OC IN FIELD, UNLESS NOTED OTHERWISE. NAILS SHALL HAVE 3/8" MINIMUM EDGE DISTANCE IN LUMBER, AND

12.PRESERVATIVE TREATMENT: TREAT WOOD MEMBERS AND SHEATHING IN CONTACT WITH MASONRY OR CONCRETE, OR WITHIN 6" OF GROUND, [IRC-R317.1.5]. TREAT IN ACCORDANCE WITH CURRENT STANDARDS OF AMERICAN WOOD

REVISIONS ISSUE DATE REVISIONS CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN Ann Rothmann, PE APROFESS-ONAL ANN ROTHMANN **SMP**ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 **CIVIL ENGINEER** KS ENGINEERS www.ksena.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: **ARORA ENGINEERS** www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 **CITY OF PHILADELPHIA** DEPARTMENT OF PARKS & RECREATION 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA PROJECT TITLE RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER DRAWING TITLE GENERAL NOTES PROJECT NC DRAWING NO 16315E-03-02 04/09/2025 SCALE AS NOTED DRAWN BY SH CHECKED BY AR ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

- ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- BOUNDARY LINES SHOWN ON THE DRAWINGS DO NOT LIMIT THE SCOPE OF WORK FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NOTED ON THE DRAWINGS.
- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS AND LAWS OF AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- ALL PENETRATIONS THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE AND SMOKE STOPPING MATERIAL. ALL FIRE AND SMOKE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAIL AS PER SPECIFICATIONS FOR FIRE AND SMOKE STOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR INSTALLATION.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA, CONFINES OF THE WORK AREA, OR AS DESIGNATED BY THE OWNER.
- ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS (WITH AS-BUILT INFORMATION) SHALL BE KEPT AT THE JOB SITE AT ALL TIMES BY THE CONTRACTOR.
- EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES FOR A THOROUGH UNDERSTANDING OF PROJECT AND ANY CROSS REFERENCING OF WORK. REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. IN CASE OF DISCREPANCIES, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION 10. FOR A PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS, IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF THE WORK OF THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO OWNER.
- 11. IN ADDITION TO SPECIFICATIONS, AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST ANY DAMAGE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING, ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT 12. AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWINGS MADE IN THE INSTALLATION, AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT.
- PRIOR TO DELIVERY OF ANY MATERIALS TO THE SITE, THE 13. CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THIS WORK.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL CAPACITIES AND LOCATIONS OF EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO DETERMINE ACTUAL PHYSICAL SIZE, CAPACITIES, AND LOCATIONS OF EXISTING EQUIPMENT TO BE REMOVED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, COORDINATE ALL REQUIRED EQUIPMENT AND SYSTEMS SHUTDOWN WITH OWNER, AND PROVIDE OWNER TWO WEEKS NOTICE OF THE SAME.
- COORDINATE DEMOLITION WORK WITH ALL OTHER TRADES. PHASE 16 WORK IN CONJUNCTION WITH OTHER TRADE PHASING AND PHASING DRAWINGS.
- CONTRACTOR SHALL FIELD VERIFY OTHER EQUIPMENT/UTILITIES 17. NOT ASSOCIATED WITH THIS WORK BUT LYING WITHIN THE WORK AREA, AND WILL NOT DISTURB THOSE EQUIPMENT/UTILITIES. THOSE EQUIPMENT/UTILITIES SHALL BE PROTECTED SO THAT THE SERVICE IS NOT INTERRUPTED. CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO THE EQUIPMENT/UTILITIES IN PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL KEEP WORK AREA CLEAN, ORDERLY, AND WORKMAN LIKE, AND REMOVE ALL DEMOLISHED TRASH/ RUBBLE/CONSTRUCTION DEBRIS ON A DAILY BASIS FROM THE WORK AREA AND OFF OWNERS PROPERTY. ALL TRASH/RUBBLE/CONSTRUCTION DEBRIS DEEMED AS HAZARDOUS WASTE/MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH EPA OR ANY OTHER PERTINENT GOVERNING AGENCY AND DISPOSED OF ACCORDINGLY AT AN APPROVED HAZARDOUS WASTE DUMPSITE WITH ALL OF THE APPROVED/REQUIRED DOCUMENTATION.
- COORDINATE AND PHASE WORK IN CONJUNCTION WITH OTHER 19. TRADE PHASING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL HIS EMPLOYEES WITH SAFE AND HEALTHY WORKING CONDITIONS AS PRESCRIBED IN THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE U.S. DEPARTMENT OF LABOR.
- SECURE AND DELIVER TO THE OWNER'S REPRESENTATIVE ALL 21. CERTIFICATES OF COMPLIANCE REQUIRED BY LOCAL AUTHORITIES.

#### **MECHANICAL GENERAL NOTES:**

2

- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- CONTRACTOR SHALL FURNISH AND COMPLETE ALL PIPING SYSTEMS TO ALL EQUIPMENT REQUIRING SUCH. VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING LOCATIONS WITH WORK UNDER OTHER DISCIPLINES AND DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE HVAC DUCT SYSTEM TO ALL DIFFUSERS AND/OR EQUIPMENT REQUIRING SUCH. VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE HVAC LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, INSPECTION CERTIFICATES, ETC. REQUIRED UNDER THE PROJECT SCOPE.
- CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEERS OF ANY DISCREPANCIES BETWEEN THE PLAN AND CONDITIONS AND/OR POTENTIAL PROBLEMS OBSERVED PRIOR TO CONTINUING WORK.
- 6. DO NOT SCALE THE PLANS. FIELD VERIFY EXACT LOCATIONS OF DOORS, WINDOWS, WALL DIMENSIONS, ETC.
- CONTRACTOR WILL GIVE SUITABLE NOTICE TO ALL APPLICABLE 7. UTILITY COMPANIES AND OWNER PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL EQUIPMENT SHALL BE HANDLED, STORED, AND PROTECTED TO 8. PREVENT DAMAGE BEFORE AND DURING INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED IN A READILY ACCESSIBLE LOCATION SO AS TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS, PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
- 10. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AT SITE.
- 11. ALL PIPING, APPARATUS, AND EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES.
- VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE PIPING 12. FOR WHICH THEY ARE INSTALLED, UNLESS OTHERWISE NOTED.
- 13. CONTRACTOR SHALL VERIFY AND CORRECT SYSTEMS AS REQUIRED TO MEET ALL CODES AND REGULATIONS AND VERIFY AND CORRECT ANY/ALL POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTIONS SPECIFIED IN THE EQUIPMENT SCHEDULES AND EQUIPMENT ACTUALLY INSTALLED.
- 14. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL EQUIPMENT SHOWN ON PLANS, INCLUDING COORDINATION OF ANY EQUIPMENT OF ALTERNATE MANUFACTURER. CONTRACTOR SHALL PROVIDE COMPOSITE DRAWINGS AS REQUIRED FOR INSTALLATION OF EQUIPMENT SHOWN ON PLAN FOR APPROVAL BY ENGINEER.
- 15. ALL ROOF ACCESSORIES SHALL BE COMPATIBLE WITH ROOFING SYSTEMS AS REQUIRED.
- CONTRACTOR SHALL BECOME FAMILIAR WITH ALL CONDITIONS 16. AFFECTING THIS PROJECT AND COORDINATE WITH ALL OTHER DISCIPLINES.
- 17. PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR HIS OR HER DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- 18. CONTRACTOR SHALL INSTALL DUCTWORK SYSTEMS PER LATEST SMACNA MANUALS. DUCT WORK SYSTEMS SHALL BE GALVANIZED G90 SHELL STEEL RATED FOR A PRESSURE CLASS OF 2" WG.
- 19. CONTRACTOR SHALL REPAIR/PATCH ALL SURFACES/WALLS DAMAGED BY CONSTRUCTION.

### SPECIFICATIONS:

IN ADDITION TO BELOW, PLEASE REFER TO BOOK SPECIFICATION SECTIONS.

COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKERS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

- 1. GALVANIZED SHEET STEEL SHALL COMPLY WITH ASTM A653/A653M WITH COATING DESIGNATION OF G90. DUCTWORK FINISHES FOR SURFACES EXPOSED TO VIEW SHALL BE MILL PHOSPHATIZED.
- DUCTWORK SHALL HAVE A PRESSURE CLASS OF POSITIVE 3 INCHES 2. WITH MINIMUM SMACNA SEAL CLASS A.
- 3. DUCTWORK SHALL COMPLY WITH ASTM A653/A GALVANIZED STEEL.

CONDENSATE DRAIN PIPING:

DUCTWORK:

CONDENSATE DRAIN PIPING SHALL BE TYPE M, DRAWN-TEMPER COPPER TUBING, WROUGHT COPPER FITTINGS, AND SOLDERED JOINTS. ROUTE PIPE TO SPLASH BLOCK.

NATURAL GAS PIPING:

NATURAL GAS PIPING SHALL BE STEEL PIPE COMLPYING WITH ASTM A53/A53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.

## **ABBREVIATIONS:**

LRA

LV

LWB

MBH

MCA

MFS

MISC

ABV AC	
AD	
AFF	
AP	
BAS	BUILDING AUTOMATION SYSTEM
BD	BALANCING (VOLUME) DAMPER
BDD	BACKDRAFT DAMPER
BLW	BELOW
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	
CLG	COOLING
СМ	
CNTRL	CONTROL
CO	CLEAN OUT
COND	CONDENSATE
CONT	CONTINUED
CP	CONDENSATE PUMP
CUH	CABINET UNIT HEATER
DB	DRY BULB TEMPERATURE
DBA	DECIBEL A-WEIGHTED
DB	DECIBEL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DSD	DUCT SMOKE DETECTOR
DWG	DRAWING
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRIC
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
EST	ESTIMATED
EUH	ELECTRIC UNIT HEATER
EWB	
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FLR	FLOOR
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
FT	FEET
G	NATURAL GAS PIPING
GA	GAUGE
GPH GS	GALLONS PER HOUR GALVANIZED STEEL
HP	HORSEPOWER
HTG	
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	
IN WG	
INV EL	
JAN	JANITOR'S
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS

POUNDS LOCKED ROTOR AMPS

LOUVER

LEAVING WET BULB TEMPERATURE

BTU-H IN 1000'S

MAXIMUM CIRCUIT AMPACITY

MAXIMUM FUSE SIZE

MISCELLANEOUS

MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SCH	SCHEDULE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SG	SUPPLY GRILLE
SMACNA	SHEET METAL & AIR-CONDITIONING CONTRACTOR NATIONAL ASSOCIATION
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
SUC	SUCTION
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VENT LINE
V/PH/HZ	VOLTS/PHASE/HERTZ
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WMS	WIRE MESH SCREEN

## **APPLICABLE CODES:**

- 2018 INTERNATIONAL MECHANICAL CODE (2018 IMC)
- NFPA-90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
- NFPA-90B STANDARD FOR THE INSTALLATION OF WARM AIR
- HEATING AND AIR-CONDITIONING SYSTEMS
- NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE
- 2018 INTERNATIONAL FUEL GAS CODE (2018 IFGC) 5.
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (2018 IECC)
- 2018 INTERNATIONAL BUILDING CODE (2018 IBC)
- 2018 INTERNATIONAL EXISTING BUILDING CODE (2018 IEBC)

### DUCT SYMBOLS:

M

 $\Box \Sigma$ 

	SUPPLY DUCT TURNING UP (ROUND OR RECTANGULAR) SUPPLY DUCT TURNING DOWN (ROUND OR RECTANGULAR) RETURN DUCT TURNING UP
	RETURN DUCT TURNING DOWN
	EXHAUST DUCT TURNING UP
	EXHAUST DUCT TURNING DOWN
$\boxtimes$	CEILING RETURN, EXHAUST OR TRANSFER REGISTER CEILING SUPPLY DIFFUSER
Γ	MITERED ELBOW WITH TURNING VANES
10"x10"	SQUARE OR RECTANGULAR DUCTWORK
-\$-	RECTANGULAR TO ROUND DUCT TRANSITION
-D-	RECTANGULAR TO RECTANGULAR TO ROUND TO ROUND DUCT TRANSITION
	FLEXIBLE DUCT CONNECTOR
$\mathcal{S}$	FLEXIBLE DUCT
▶	FIRE DAMPER
<b>—</b>	VOLUME BALANCING DAMPER
M <del>-////</del>	MOTORIZED DAMPER
Ø	INDICATES ROUND DUCTWORK (DIAMETER)
-∕-►	RETURN, EXHAUST OR TRANSFER AIR FLOW
	SUPPLY AIR FLOW
-\>	AIR FLOW DIRECTION ARROW
TAG NECK SIZE CFM	AIR TERMINAL TAG
CONTF	ROLS:

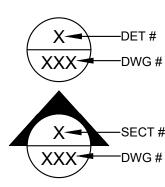
CONTROL	S
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AI	ANALOG INPUT (TO PANEL)
AO	ANALOG OUTPUT (OUT OF PANEL)
DI	DIGITAL INPUT (TO PANEL)
DO	DIGITAL OUTPUT (OUT OF PANEL)
	CONTROL WIRING (SIGNAL PATH)
	CARBON DIOXIDE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
DP	DIFFERENTIAL PRESSURE SENSOR
SD	DUCT SMOKE DETECTOR
F	FAN ON-OFF SWITCH
FS	FIRESTAT
FZ	FREEZESTAT
M	MOTOR
M ////	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
SP	STATIC PRESSURE SENSOR
S	SWITCH
$\bigcirc$	ZONE TEMPERATURE SENSOR
ТТ	TEMPERATURE TRANSMITTER
Т	THERMOSTAT
VSD	VARIABLE SPEED DRIVE

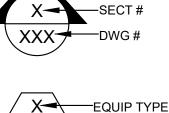
VALVE	S AND ACCESSORIES:
Ø	AUTOMATIC AIR VENT
	AUTOMATIC FLOW CONTROL VALVE
	BALANCING VALVE WITH TEST PORTS
———————————————————————————————————————	BLIND FLANGE
<del></del>	BOTTOM CONNECTION
——————————————————	CAPPED PIPE
- <b>N</b> -	CHECK VALVE
	CONCENTRIC REDUCER
<b>—</b>	DIRECTION OF FLOW
	ECCENTRIC REDUCER
<b></b>	FLANGED CONNECTION
	EXPANSION COMPENSATOR
	FLOW MEASURING DEVICE
	FLOW METER
	GLOBE VALVE
<u> </u>	MANUAL AIR VENT
<u> </u>	PRESSURE/TEMPERATURE TEST PLUG
<b>—</b> ×—	PIPE ANCHOR
<u> </u>	PITCH
	PRESSURE REDUCING VALVE
一次	PRESSURE RELIEF VALVE
<u> </u>	PRESSURE GAUGE WITH GAUGE COCK
	SHUTOFF VALVE (SEE SPECIFICATIONS FOR TYPE)
	STRAINER

	SHUTOFF VALVE (SEE SPECIFICA TYPE)
- <del>'\\</del>	STRAINER
	STRAINER W/BLOW DOWN VALVE
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
<u> </u>	THERMOMETER

## **GENERAL SYMBOLS:**



DETAIL TAG

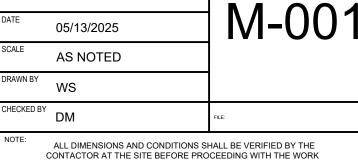


-EQUIP #

REVISIONS
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ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA
DEPARTMENT OF PARKS & RECREATION 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA PROJECT TITLE
RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER

MECHANICAL GENERAL NOTES SYMBOLS AND ABBREVIATIONS

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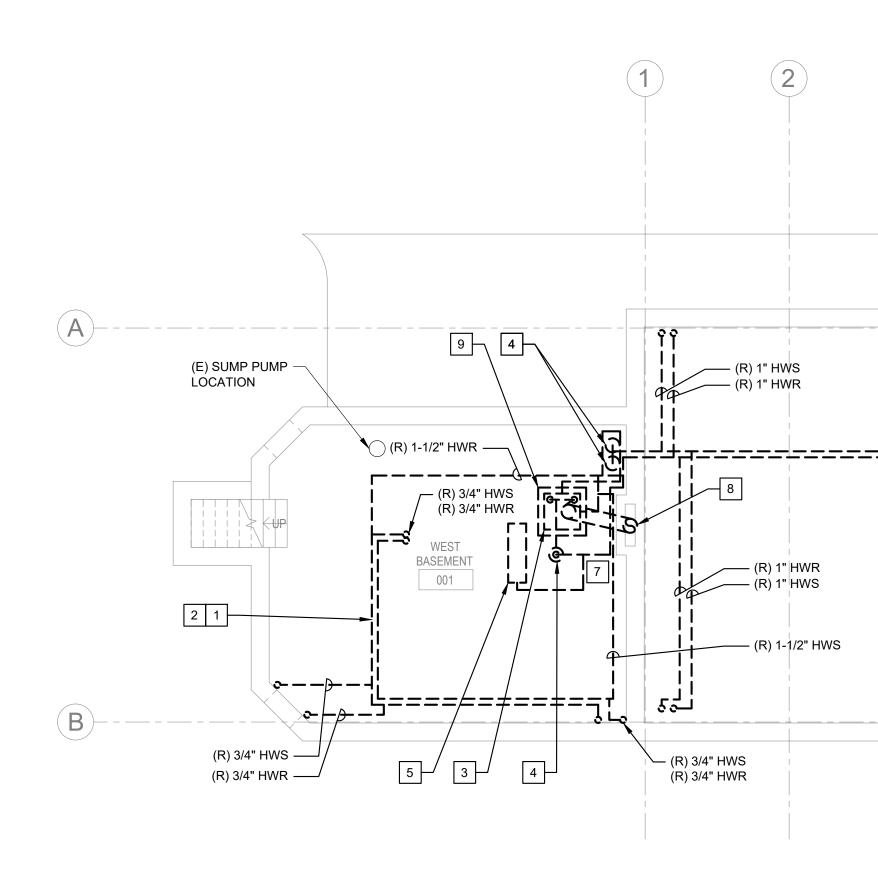
CONSTRUCTION DOCUMENTS

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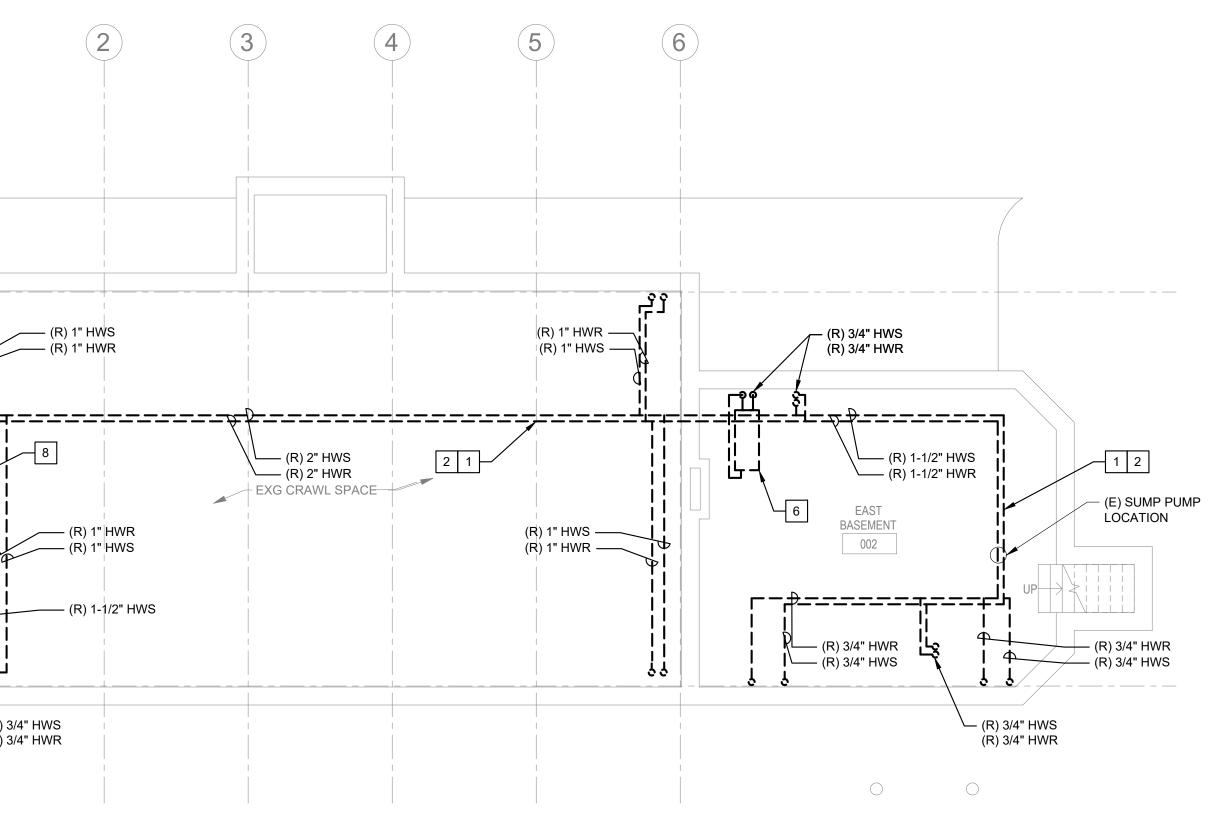
SECTION TAG

EQUIPMENT TAG





- SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M500 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M600 FOR MECHANICAL SCHEDULES.



AREA NOT IN SCOPE

1. REFER TO DRAWING M001 FOR GENERAL NOTES,

# **KEYED NOTES:**

1 REMOVE EXISTING HEATING WATER SUPPLY PIPING IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, FITTINGS, VALVES, ACTUATORS, POWER WIRING CONTROLS, COMPRESSED AIR PIPING, INSULATION, AND

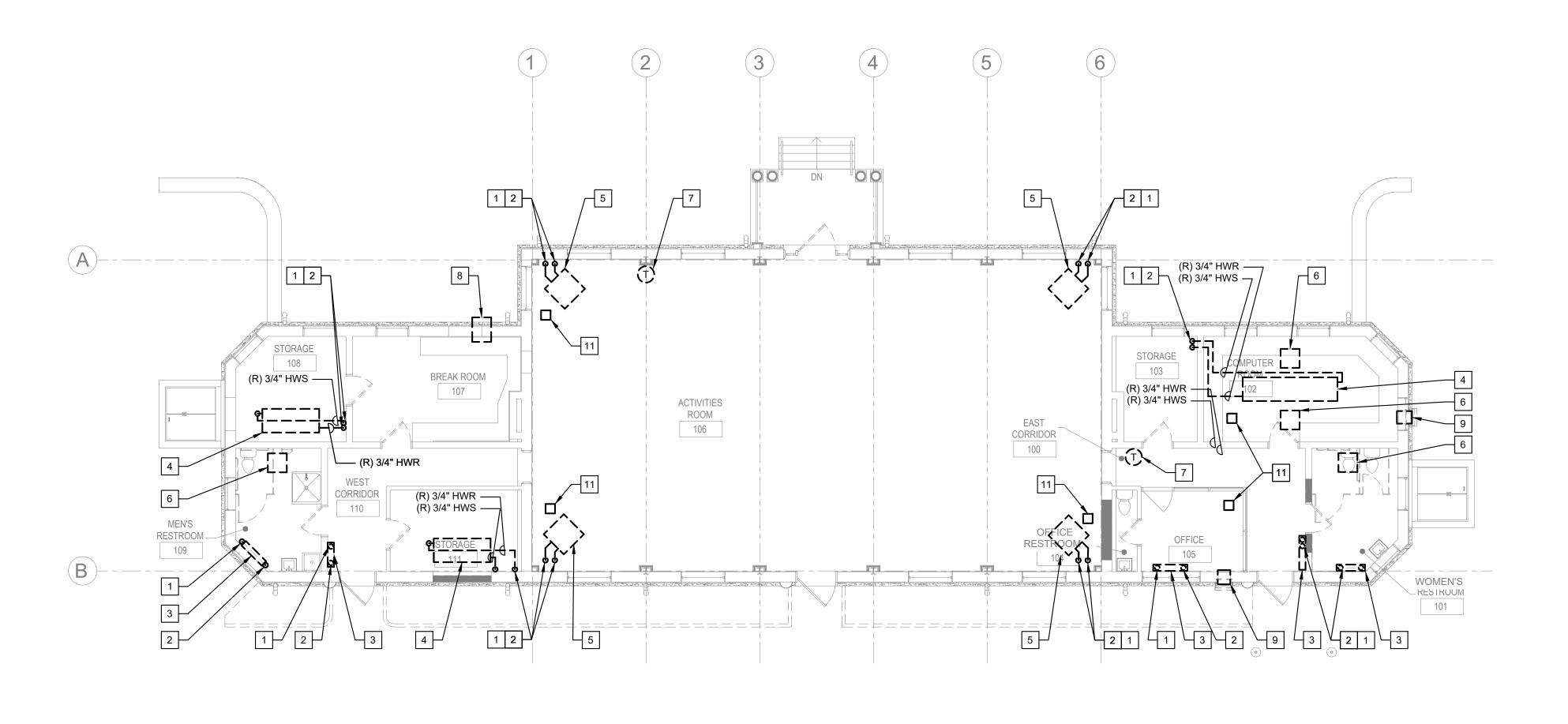
ACCESSORIES. PATCH WALL, AND FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH. 2 REMOVE EXISTING HEATING WATER RETURN PIPING IN

- ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, FITTINGS, VALVES, ACTUATORS, POWER WIRING CONTROLS, COMPRESSED AIR PIPING, INSULATION, AND ACCESSORIES. PATCH WALL AND FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 3 REMOVE EXISTING BOILER IN ITS ENTIRETY INCLUDING EQUIPMENT SUPPORTS, BURNERS, IGNITERS, BLOWERS, GASKETS, FLUE, CONTROL BOARDS, DISPLAY BOARDS, TRANSFORMERS, AMPLIFIERS, SWITCHES, SENSORS, WIRING, HOT WATER PIPING, AQUASTATS, THERMOMETER, GAUGES, PUMPS, GAS, GAS PIPING, REGULATORS, GAS VALVES, RELIEF VALVES, FILTERS, AND ALL ACCESSORIES. PATCH FLOOR TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 4 REMOVE EXISTING HEATING WATER PUMP IN ITS ENTIRETY INCLUDING SUPPORTS HANGERS, VALVES, PIPING, INSULATION, MOTOR STARTER, VFD, DISCONNECT, SWITCH CONTROLS, POWER WIRING, AND ACCESSORIES.
- 5 REMOVE EXISTING HEATING WATER SYSTEM EXPANSION TANK IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, PIPING, VALVES, THERMOMETER, GAUGES, INSULATION, AND ACCESSORIES. PATCH CEILING OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 6 REMOVE EXISTING SUSPENDED CAST IRON RADIATOR IN ITS ENTIRETY INCLUDING SUPPORTS, COVERS, COILS, PIPING, VALVES, CONTROLS AND ACCESSORIES. PATCH CEILING OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 7 REMOVE EXISTING HEATING WATER SYSTEM AIR SEPARATOR IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, PIPING, VALVES, INSULATION, AND ACCESSORIES. PATCH CEILING OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 8 REMOVE EXISTING BREECHING AND FLUE VENT IN ITS ENTIRETY INCLUDING DUCT, DAMPERS, SUPPORTS, HANGERS, INSULATION, ROOF FLASHING, STORM COLLAR, CAP, AND ACCESSORIES. MECHANICAL CONTRACTOR TO COORDINATE THE INFILL OF THE EXISTING BREECHING'S ROOF PENETRATIONS WITH ROOFING CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE TEMPORARY ROOF PATCHING DURING CONSTRUCTION.
- 9 REMOVE EXISTING CONCRETE PAD IN ITS ENTIRETY INCLUDING ALL REINFORCEMENT METAL AND PATCH FLOOR FLUSH AND READY FOR INSTALLATION OF NEW WORK.

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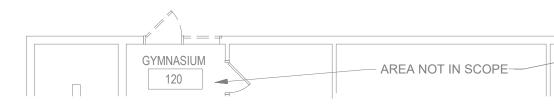
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- SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M700 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M800 FOR MECHANICAL SCHEDULES.



1. REFER TO DRAWING M001 FOR GENERAL NOTES,

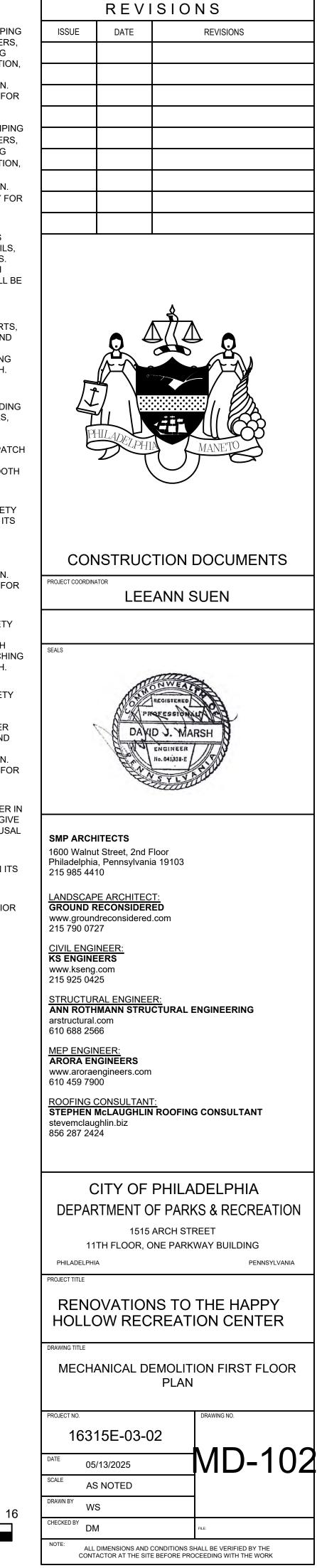
**KEYED NOTES:** 

- 1 REMOVE EXISTING HEATING WATER SUPPLY PIPING IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, FITTINGS, VALVES, ACTUATORS, POWER WIRING CONTROLS, COMPRESSED AIR PIPING, INSULATION, AND ACCESSORIES. PATCH WALL, AND FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 2 REMOVE EXISTING HEATING WATER RETURN PIPING IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, FITTINGS, VALVES, ACTUATORS, POWER WIRING CONTROLS, COMPRESSED AIR PIPING, INSULATION, AND ACCESSORIES. PATCH WALL AND FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 3 REMOVE EXISTING CAST IRON RADIATOR IN ITS ENTIRETY INCLUDING SUPPORTS, COVERS, COILS, PIPING, VALVES, CONTROLS AND ACCESSORIES. PATCH WALL AND FLOOR OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 4 REMOVE EXISTING SUSPENDED CAST IRON RADIATOR IN ITS ENTIRETY INCLUDING SUPPORTS, COVERS, COILS, PIPING, VALVES, CONTROLS AND ACCESSORIES, PATCH CEILING OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 5 MECHANICAL CONTRACTOR SHALL REMOVE EXISTING UNIT HEATER IN ITS ENTIRETY INCLUDING SUPPORTS, CABINET, FANS, MOTORS, DAMPERS, COILS, PIPING, VALVES, CONTROLS, TRANSFORMERS, POWER WIRING, SENSORS, ACTUATORS, SWITCHES, AND ACCESSORIES. PATCH WALL OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 6 REMOVE EXISTING RELIEF GRILLE IN ITS ENTIRETY INCLUDING ANY RELIEF DAMPER AT CEILING IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, DUCTWORK, FITTINGS, DAMPER, ACTUATORS, POWER WIRING, CONTROL, COMPRESSED AIR, TUBING, AND ACCESSORIES. PATCH CEILING OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 7 REMOVE EXISTING THERMOSTAT IN ITS ENTIRETY INCLUDING HANGERS, SUPPORTS, AIR TUBING, WIRING, CONTROLS AND ACCESSORIES. PATCH WALL TO MATCH EXISTING MATERIAL.ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 8 REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING SUPPORTS, HANGERS, MOTORS, VIBRATION ISOLATORS, FITTINGS, INSULATION, DAMPERS, CONTROLS, TRANSFORMERS, POWER WIRING, SENSORS, ACTUATORS, SWITCHES, AND ACCESSORIES. PATCH WALL AND OR ROOF OPENINGS TO MATCH EXISTING CONSTRUCTION. ALL PATCHING SHALL BE SMOOTH AND READY FOR G.C. FINISH.
- 9 REMOVE EXISTING THRU-WALL AIR CONDITIONER IN ITS ENTIRETY. MECHANICAL CONTRACTOR TO GIVE PARKS AND RECREATION RIGHT TO FIRST REFUSAL BEFORE SCRAPPING THE UNITS.
- 10 REMOVE AND STORE EXISTING AIR PURIFIER IN ITS ENTIRETY.
- 11 CLIENT TO REMOVE EXISTING AIR PURIFIER PRIOR TO CONSTRUCTION.

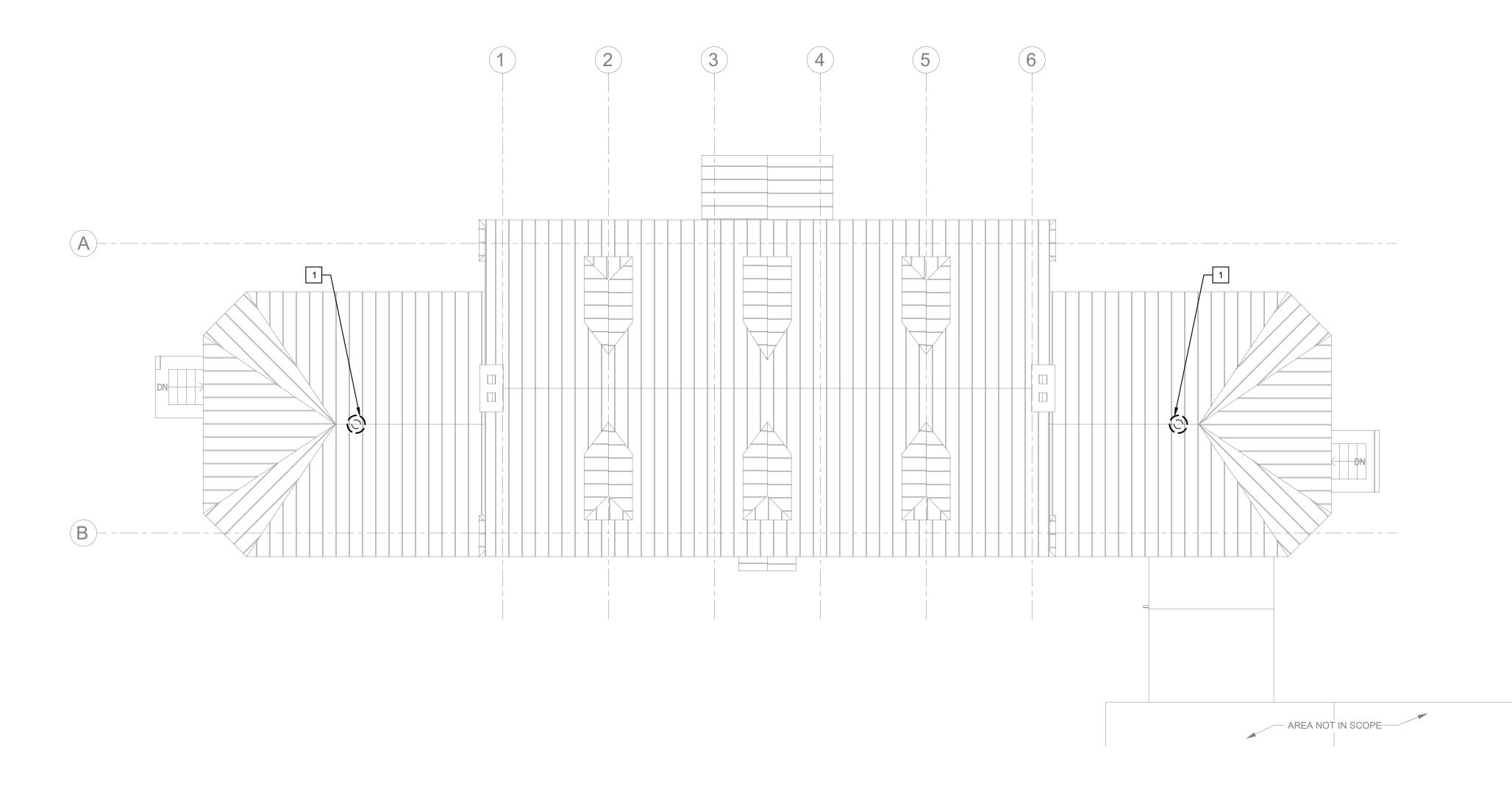
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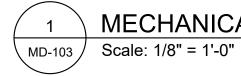
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CONSTRUCTION DOCUMENTS





MECHANICAL DEMOLITION ROOF PLAN

# GENERAL NOTES:

- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M500 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M600 FOR MECHANICAL SCHEDULES.
- AND PATCH ROOF.

4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL CUT

COORDINATE WITH OWNER'S REPRESENTATIVE FOR SUITABLE ROOFING CONTRACTOR AS TO NOT VOID EXISTING ROOF WARRANTY.

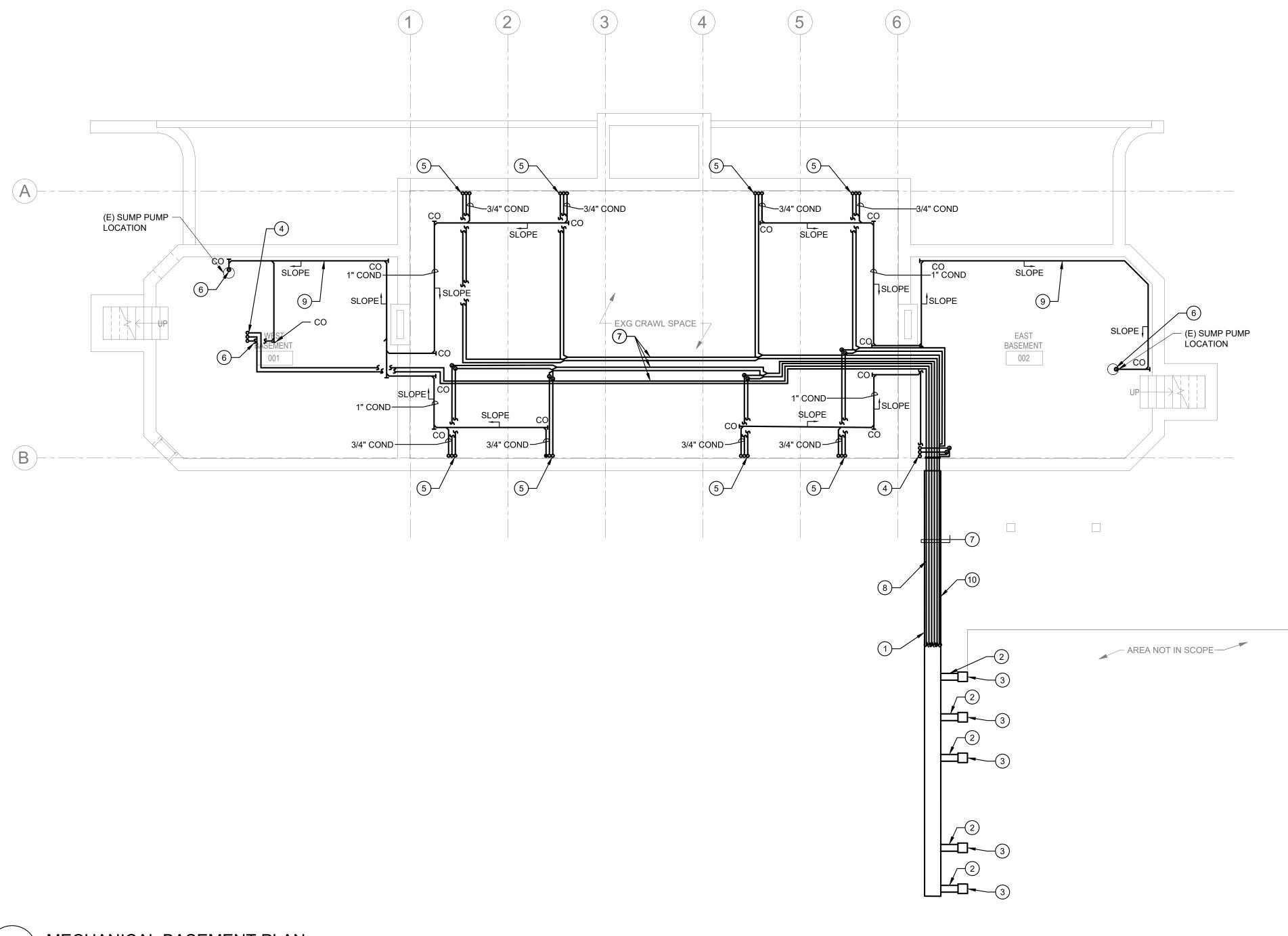
# KEYED NOTES:

1 MECHANICAL CONTRACTOR SHALL REMOVE EXISTING GRAVITY RELIEF VENT IN ITS ENTIRETY INCLUDING CURB, DAMPER, AIR DEVICE, DUCTWORK, POWER AND CONTROL WIRING, CONTROLS, AND ACCESSORIES. PATCH ROOF TO MATCH EXISTING. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SUITABLE ROOFING CONTRACTOR AS TO NOT VOID ROOF WARRANTY. PROVIDE TEMPORARY ROOF PATCHING DURING CONSTRUCTION.

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- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M500 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M600 FOR MECHANICAL SCHEDULES.
- 4. EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC. PLEASE REFER TO OF EQUIPMENT.

- ARCHITECTURAL PLANS FOR PRECISE LOCATIONS

# **KEYED NOTES:**

- 1 PROVIDE HDPE (HIGH DENSITY POLYETHYLENE) TO BE INSTALLED IN THE GROUND BELOW THE FROST LINE TO ENCASE THE REFRIGERANT PIPING GOING TO THE TERMINAL UNITS IN THE HAPPY HOLLOW RECREATION CENTER.
- 2 PROVIDE HDPE (HIGH DENSITY POLYETHYLENE) 10Ø DUCT BRANCH TO HDPE 12X12 SQUARE PLENUM.
- (3) HDPE 12X12 HDPE (HIGH DENSITY POLYETHYLENE) SQUARE PLENUM 12" ABOVE GRADE.
- (4) REFRIGERANT PIPING UP TO FIRST FLOOR AND CONDENSATE PIPING DOWN FROM FIRST FLOOR TERMINATING AT SUMP PUMP SUMP.
- 5 REFRIGERANT AND CONDENSATE PIPING UP TO FLOOR MOUNTED UNIT ON THE FIRST FLOOR
- 6 CONDENSATE PIPING TO DISCHARGE TO SUMP PUMP.
- 7 REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER RECOMMENDATION.
- 8 PROVIDE SPECIFIED REFRIGERANT PIPING INSULATION ON PIPING IN THE HDPE (HIGH DENSITY POLYETHYLENE) DUCT.
- 9 CONDENSATE PIPING TO BE INSTALLED ALONG WALL.
- 10 PROVIDE ALL EXCAVATING, BACKFILLING, AND WORK INCIDENTAL TO EXCAVATING. REQUIRED TO INSTALL THE HDPE (HIGH DENSITY POLYETHYLENE DUCTWORK). EXCAVATION AND BACKFILL SHALL BE COMPLETED PER MANUFACTURER RECOMMENDATIONS.

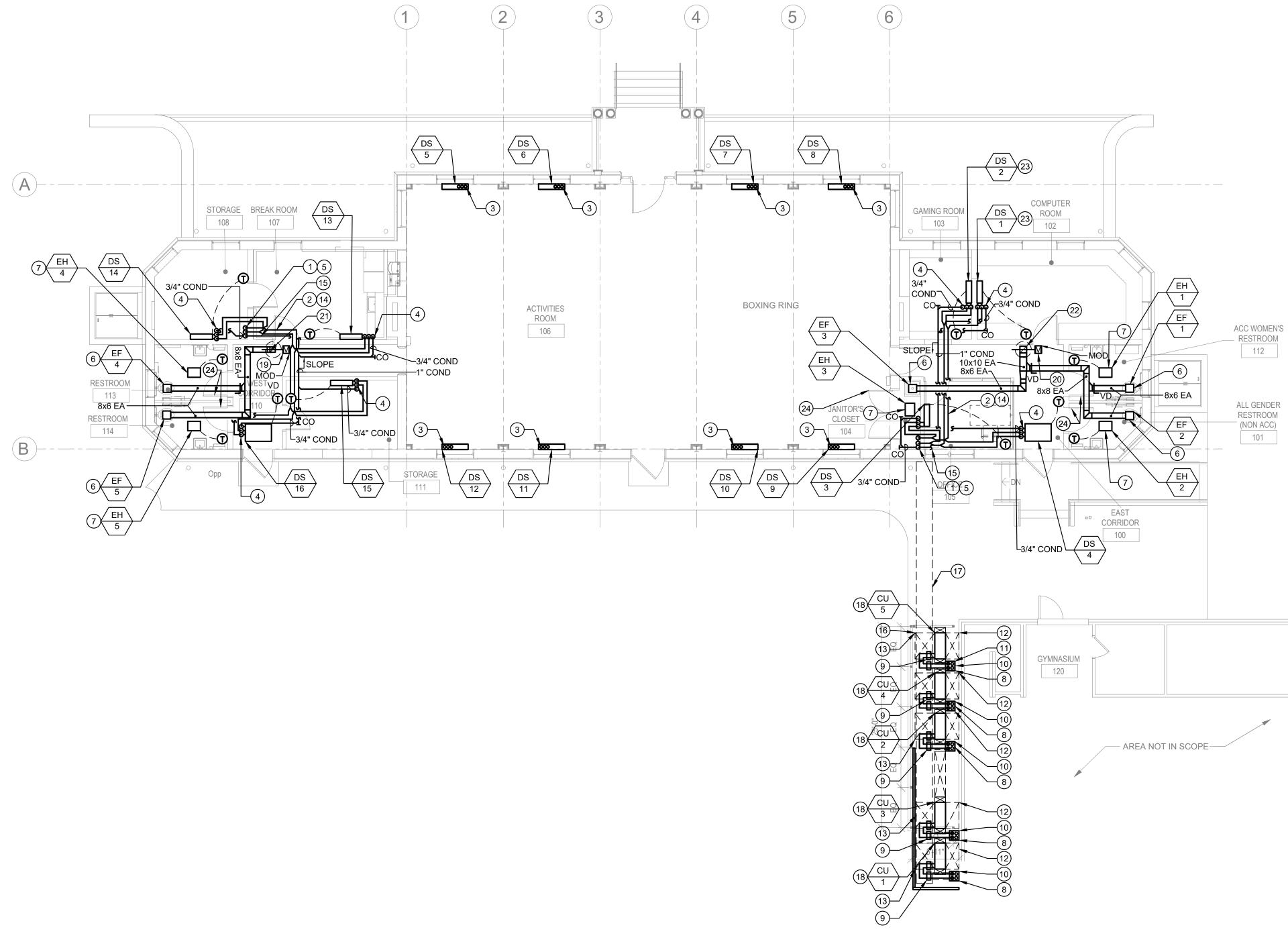
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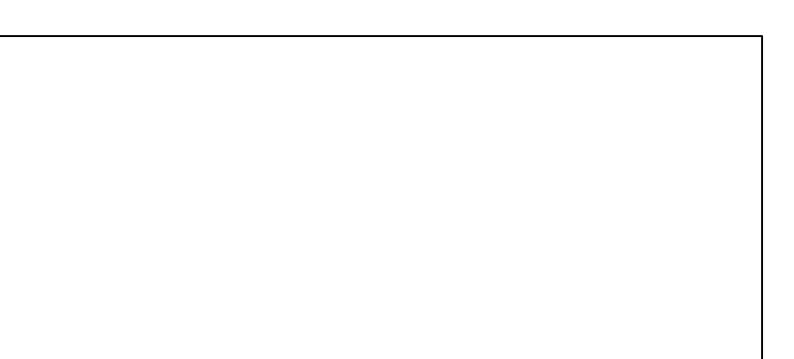
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- SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M500 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M600 FOR MECHANICAL SCHEDULES.
- 4. EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC. PLEASE REFER TO OF EQUIPMENT.

1. REFER TO DRAWING M001 FOR GENERAL NOTES,

- ARCHITECTURAL PLANS FOR PRECISE LOCATIONS

## **KEYED NOTES:**

- REFRIGERANT PIPING DOWN TO CRAWL SPACE. (1)
- REFRIGERANT PIPING TO BE INSTALLED ABOVE 2
- CEILING. THE VRF REFRIGERANT PIPING TO CONTINUE TO EACH TERMINAL UNIT.
- 3 REFRIGERANCE. REFRIGERANT AND CONDENSATE PIPING DOWN
- REFRIGERANT AND CONDENSATE PIPING TO BE 4 INSTALLED ABOVE CEILING.
- SURFACE MOUNT INDOOR UNIT TO THE 5 EXISTING CEILING AND SUPPORT FROM EXISTING STRUCTURE PER MANUFACTURER RECOMMENDATIONS.
- INSTALL CEILING EXHAUST FAN BETWEEN (6)STRUCTURE. STRUCTURE IS 16 INCH ON CENTER. CONTRACTOR TO CONFIRM LOCATION IN THE FIELD AND COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- INSTALL CEILING ELECTRIC UNIT HEATERS (7)BETWEEN STRUCTURE. STRUCTURE IS 16 INCH ON CENTER. CONTRACTOR TO CONFIRM LOCATION IN THE FIELD AND COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- PROVIDE STAINLESS STEEL CLAMPS AND 8 MODULE CAP AROUND CONDUIT AND PIPE. PROVIDE THE PATE COMPANY CURB ASSEMBLIES MODEL PPC-1 CAP STYLE WITH B-3 MODULE CAP AND INSTALL ON 12X12 HPDE (HIGH DENSITY POLYETHYLENE) CURB. UNITS SHALL HAVE FOUR (4) BOOTS FOR REFRIGERANT LINES, CONTROL CONDUIT, AND ELECTRICAL POWER CONDUIT. DO NOT INSULATE THROUGH MODULE CAP. PROVIDE STAINLESS STEEL CLAMPS AND MODULE CAP AROUND CONDUIT AND PIPE. (FOR CU-1,2,3,4,5).
- PROVIDE THE PATE COMPANY EQUIPMENT 9 SUPPORTS MODEL ES-1 SPACED MAXIMUM 48" APART (FOR CU-1,2,3, 4,5).
- (10) REFRIGERANT PIPING SHALL BE INSTALLED GOING THROUGH HDPE (HIGH DENSITY POLYETHYLENE) PLENUM DOWN TO THE HDPE DUCT ENCASING THE REFRIGERANT PIPING BELOW GROUND.
- REFER TO CONDENSING UNIT PIPING CURB (11) DETAIL (TYPICAL FOR CU-1,2,3,4,5).
- CONDENSING UNITS (CU-1,2,3,4,5) SHALL BE ON (12) OUTSIDE CONCRETE PADS. CONDENSERS SHALL BE OFFSET BY A MINIMUM OF TWENTY INCHES FROM THE GYMNASIUM WALL PER MANUFACTURER RECOMMENDATIONS.
- EQUIPMENT CLEARANCES (TYPICAL). (13)
- (14) REFRIGERANT PIPING SIZED PER MANUFACTURER RECOMMENDATION.
- (15) CONDENSATE PIPING TO BE INSTALLED ABOVE CEILING. THE CONDENSATE PIPING TO CONTINUE TO EACH TERMINAL UNIT.
- CONDENSERS SHALL BE OFFSET BY A MINIMUM (16) OF 24 INCHES FROM THE ENCLOSURE PER THE MANUFACTURER RECOMMENDATIONS (TYPICAL FOR CU-1,2,3,4,5).
- 17 24 INCH HDPE (HIGH DENSITY POLYETHYLENE) DUCT BURIED BELOW THE FROST LINE (36 INCHES) BENEATH CONCRETE PAD.
- ALL EXTERIOR HVAC EQUIPMENT SHALL BE PROTECTED BY STEEL COMMERCIAL THEFT/VANDALISM SECURITY PROTECTION CAGES. THE PHYSICAL SIZE, ETC. OF EACH SECURITY CAGE SHALL BE UNIQUELY DETERMINED BY THE SECURITY CAGE PROVIDER TO MATCH THE DIMENSIONS AND OPERATING REQUIREMENTS OF EACH UNIT PROTECTED. THE SECURITY CAGES SHALL BE OF SUFFICIENTLY ROBUST CONSTRUCTION AND SECURELY ATTACHED TO THE STEEL DUNNAGE OR ROOF TO PROTECT THE EQUIPMENT FROM ALL THEFT AND VANDALISM. THE SECURITY CAGES SHALL HAVE SUFFICIENT OPEN FREE AREA FOR ALL REQUIRED AIR MOVEMENT FOR PROPER EQUIPMENT OPERATION. THE SECURITY CAGES SHALL BE PROVIDED WITH SUFFICIENTLY LARGE OPERABLE OR DEMOUNTABLE NORMALLY SECURED ACCESS MEAN TO PREFORM ALL REQUIRED EQUIPMENT MAINTENANCE, WHILE PREVENTING UNAUTHORIZED ENTRY. THE ACTUAL DESIGN OF THE SECURITY CAGES SHALL BE PERFORMED BY THE SECURITY CAGE PROVIDED AS A DELEGATED DESIGN AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE DESIGN OF THE SECURITY CAGES SHALL BE BASED UPON THE REQUIREMENTS OF THE ACTUAL EQUIPMENT (MAKE/MODEL) INSTALLED UNDER THIS PROJECT.
- PROVIDE MOTOR OPERATED DAMPER FOR (19) EXHAUST VENT (EV-1). MOD SHALL BE INTERLOCKED WITH EXHAUST FAN (EF-4).
- PROVIDE MOTOR OPERATED DAMPER FOR 20 EXHAUST VENT (EV-2). MOD SHALL BE INTERLOCKED WITH EXHAUST FAN (EF-1, EF-2, & EF-3).
- 21 8X8 EXHAUST AIR DUCTWORK UP TO EV-1.
- 10X10 EXHAUST AIR DUCTWORK UP TO EV-1 22
- 23 PROVIDE PIPE ENCLOSURE AND CONDENSATE PUMP COVER FOR WALL MOUNTED UNIT. REFER TO DETAIL 5 ON M-501. TYPICAL FOR ALL WALL MOUNTED UNITS.
- GENERAL CONTRACTOR TO PROVIDE 0.5 SQUARE FEET FREE AREA LOUVER IN DOOR.

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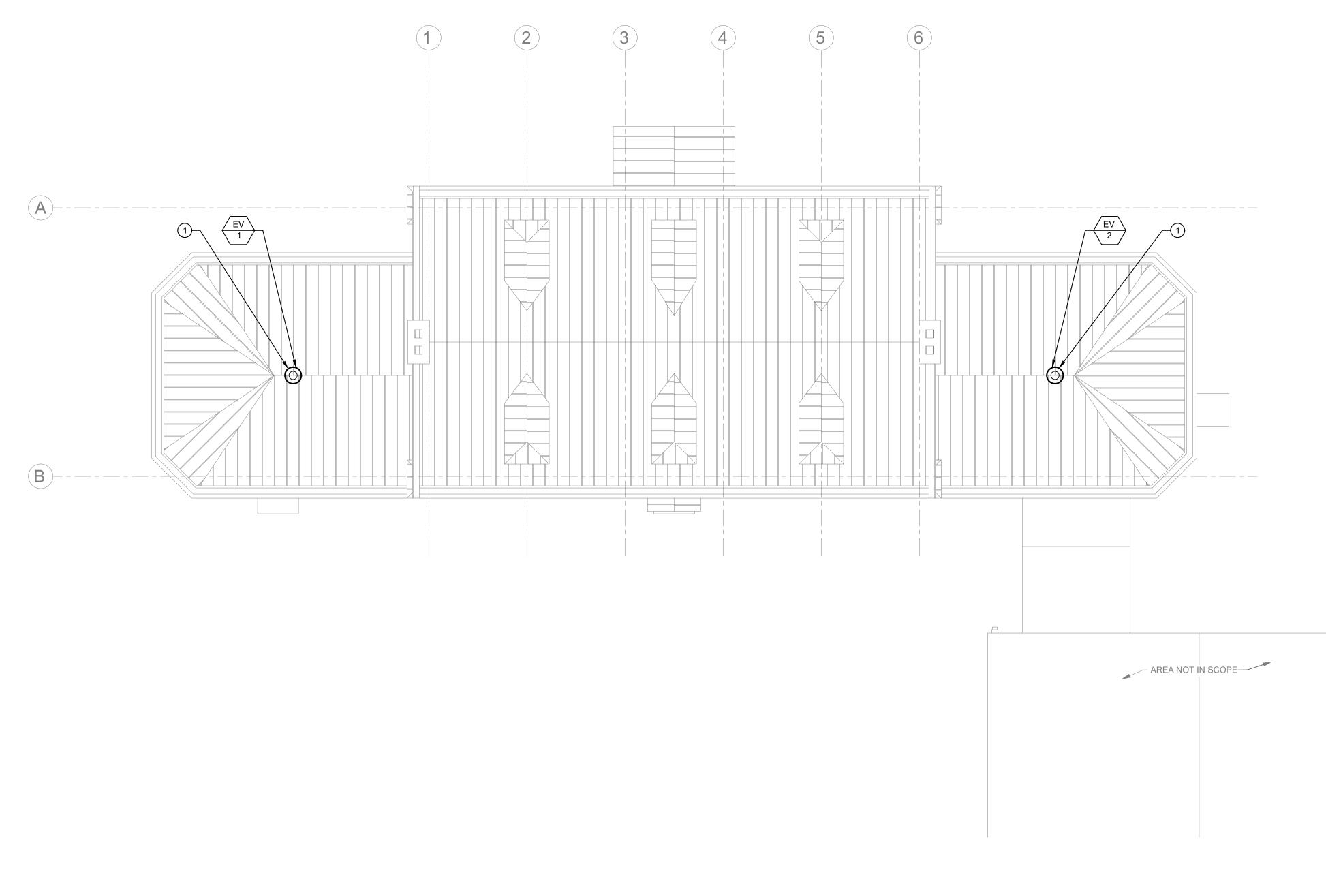
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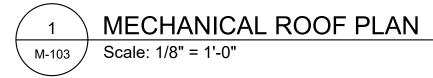
CONSTRUCTION DOCUMENTS

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

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- 1. REFER TO DRAWING M001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING M500 FOR MECHANICAL DETAILS.
- 3. REFER TO DRAWING M600 FOR MECHANICAL SCHEDULES.
- AND PATCH ROOF.

4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL CUT

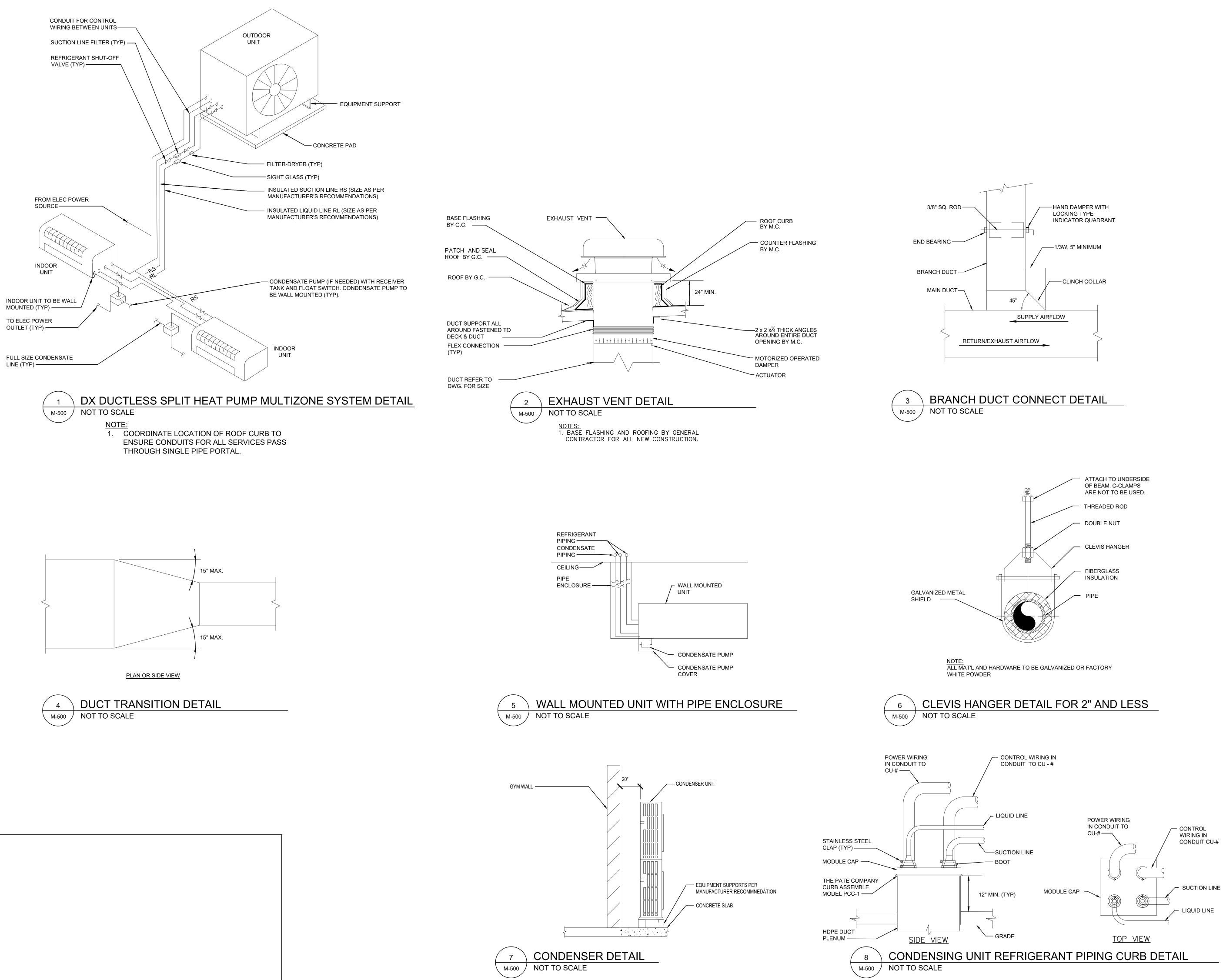
COORDINATE WITH OWNER'S REPRESENTATIVE FOR SUITABLE ROOFING CONTRACTOR AS TO NOT VOID EXISTING ROOF WARRANTY.

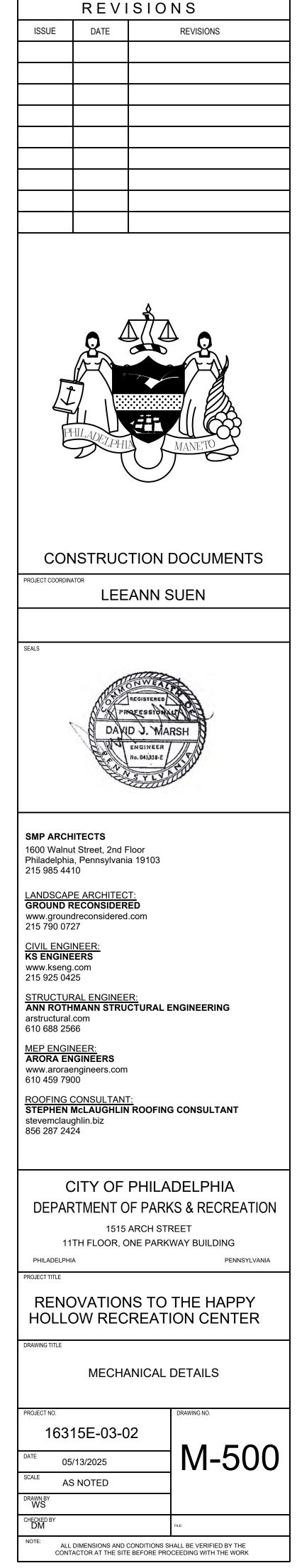
# KEYED NOTES:

1 MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL CUT AND PATCH ROOF FOR EXHAUST VENT (EV-1 AND EV-2).

REVISIONS
ISSUE DATE REVISIONS
· · ·
THE ADELPHIN MANE TO
CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN
SEALS
DAVID J. MARSH ENGINEER No. 041338-E No. 041338-E
SMP ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 <u>LANDSCAPE ARCHITECT:</u> GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727
CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425
STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566
MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900
ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424
CITY OF PHILADELPHIA DEPARTMENT OF PARKS & RECREATION
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA PENNSYLVANIA PROJECT TITLE
RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER
MECHANICAL ROOF PLAN
DATE 05/13/2025 M-103
SCALE AS NOTED
DRAWN BY
CHECKED BY
CHECKED BY DM FILE: NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE
CHECKED BY DM FILE:

8 4 0 8 16 SCALE: 1/8"=1'-0"





CONSTRUCTION DOCUMENTS

						MULT	'I-SPLIT U	INIT (INDOOR UN	IIT) SCHEDU	LE																	
TAG	BASIS OF DESIGN	MODEL	LOCATION	SERVICE	ASSOCIATED	STYLE	SEER	REFRIGERANT		SIGN				OOLING	3				HEAT	TING				RVICE		OPER	REMARKS
	MANUFACTURER	NUMBER			CONDENSER			TYPE	AMBIENT	CONDITIONS			FLOW	ENT	ENT		LEAV	TOT	FLOW	ENT	LEAV	VOLTS H	ERTZ F	PHASE	MCA	WT	1
									MAX	MIN	CAP	CAP	MAX	DB	WB	DB	WB	CAP	MAX	DB	DB						1
									°F	°F	мвн	МВН	CEM	°F	°F	°F	°F	мвн	CFM	°F	°F					IB	
DS-1	MITSUBISHI	PKFY-P18NLMU-ER1.TH	COMPUTER ROOM 102	COMPUTER ROOM 102	CU-1	WALL-MOUNTED	20	R-410A	115	-17	18	N/A	494	80.0	67.0	55.0	54.0	20	494	70.0	112.1	230V e	30.0	1	0.24	40	SEE NOTES
DS-2	MITSUBISHI	PKFY-P08NLMU-ER1.TH	GAMING ROOM 103	GAMING ROOM 103	CU-1	WALL-MOUNTED	20	R-410A	115	-17	8	N/A	237	80.0	67.0	55.0	54.0	9	237	70.0	105.0	230V 6	30.0	1	0.24	20	SEE NOTES
DS-3	MITSUBISHI	PKFY-P08NLMU-ER1.TH	OFFICE 105	OFFICE 105	CU-1	WALL-MOUNTED	20	R-410A	115	-17	8	N/A	237	80.0	67.0	55.0	54.0	9	237	70.0	105.0	230V 6	30.0	1	0.24	20	SEE NOTES
DS-4	MITSUBISHI	PCFY-P15NKMU-ER2.TH	EAST CORRIDOR 100	EAST CORRIDOR 100	CU-1	CEILING, MOUNTED	20	R-410A	115	-17	15	N/A	400	80.0	67.0	55.0	54.0	17	460	70.0	104.0	230V e	60.0	1	0.44	55	SEE NOTES
DS-5	MITSUBISHI	PFFY-P24NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-2	FLOOR MOUNTED	20	R-410A	115	-17	24	N/A	600	80.0	67.0	55.0	54.0	27	600	70.0	120.6	230V 6	60.0	1	0.59	55	SEE NOTES
DS-6	MITSUBISHI	PFFY-P12NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-2	FLOOR MOUNTED	20	R-410A	115	-17	12	N/A	400	80.0	67.0	55.0	54.0	13.5	400	70.0	109.3	230V 6	60.0	1	0.34	50	SEE NOTES
DS-7	MITSUBISHI	PFFY-P12NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-2	FLOOR MOUNTED	20	R-410A	115	-17	12	N/A	400	80.0	67.0	55.0	54.0	13.5	400	70.0	109.3	230V 6	30.0	1	0.34	50	SEE NOTES
DS-8	MITSUBISHI	PFFY-P24NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-3	FLOOR MOUNTED	20	R-410A	115	-17	24	N/A	600	80.0	67.0	55.0	54.0	27	600	70.0	120.6	230V 6	30.0	1	0.59	50	SEE NOTES
DS-9	MITSUBISHI	PFFY-P24NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-3	FLOOR MOUNTED	20	R-410A	115	-17	24	N/A	600	80.0	67.0	55.0	54.0	27	600	70.0	120.6	230V 6	60.0	1	0.59	50	SEE NOTES
DS-10	MITSUBISHI	PFFY-P12NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-4	FLOOR MOUNTED	20	R-410A	115	-17	12	N/A	400	80.0	67.0	55.0	54.0	13.5	400		109.3	230V 6	30.0	1	0.34	50	SEE NOTES
DS-11	MITSUBISHI	PFFY-P12NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-4	FLOOR MOUNTED	20	R-410A	115	-17	12	N/A	400	80.0	67.0	55.0	54.0	13.5	400	70.0	109.3	230V 6	60.0	1	0.34	50	SEE NOTES
DS-12	MITSUBISHI	PFFY-P24NRMU-E	ACTIVITY 106	ACTIVITY 106	CU-4	FLOOR MOUNTED	20	R-410A	115	-17	24	N/A	600	80.0	67.0	55.0	54.0	27	600	70.0	120.6	230V 6	60.0	1	0.59	50	SEE NOTES
DS-13	MITSUBISHI	PKFY-P18NLMU-ER1.TH	BREAK ROOM 107	BREAK ROOM 107	CU-5	WALL-MOUNTED	20	R-410A	115	-17	18	N/A	494	80.0	67.0	55.0	54.0	20	494	70.0	112.1	230V 6	30.0	1	0.24	40	SEE NOTES
DS-14	MITSUBISHI	PKFY-P08NLMU-ER1.TH	STORAGE 108	STORAGE 108	CU-5	WALL-MOUNTED	20	R-410A	115	-17	8	N/A	237	80.0	67.0	55.0	54.0	9	237	70.0	105.0	230V 6	30.0	1	0.24	20	SEE NOTES
DS-15	MITSUBISHI	PKFY-P08NLMU-ER1.TH	STORAGE 111	STORAGE 111	CU-5	WALL-MOUNTED	20	R-410A	115	-17	8	N/A	237	80.0	67.0	55.0	54.0	9	237	70.0	105.0	230V 6	30.0	1	0.24	20	SEE NOTES
DS-16	MITSUBISHI	PCFY-P15NKMU-ER2.TH	WEST CORRIDOR 110	WEST CORRIDOR 110	CU-5	CEILING, MOUNTED	20	R-410A	115	-17	15	N/A	400	80.0	67.0	55.0	54.0	13.5	460	70.0	104.1	230V 6	30.0	1	0.44	55	SEE NOTES

#### NOTES:

1. CAPACITY CONTROL BY VARIABLE SPEED COMPRESSOR WITH INVERTER.

2. PROVIDE INTERGRAL CONDENSATE PUMPS FOR CEILING MOUNTED UNITS (IF INTEGRAL PUMPS ARE NOT AVAILABLE SEE NOTE 3). 3. PROVIDE SEPARATE WALL-MOUNTED 120-V COOLING-COIL CONDENSATE PUMP (MFR: BLUE DIAMOND, MODEL X87-711, WITH MFR'S SAFETY OVERFLOW SWITCH, CHECK VALVE, ANTI-SWEAT S/S WALL BRACKET AND ANTI-SWEAT TANK SLEEVE). 2-YR WARRANTY.

WIRE TO POWER SOURCE. EXTEND DISCHARGE PIPE TO CONDENSATE DRAIN PIPING SYSTEM. WIRE SAFETY OVERFLOW SWITCH TO SHUT-OFF A/C UNIT AND TO SIGNAL ALARM. 4. PROVIDE INTEGRAL AIR FILTER.

5. PROVIDE INSULATED REFRIGERATION-PIPE LINE SETS FROM UNIT MFR. SIZES APPROVED BY MANUFACTURER. 6. PROVIDE POWER AND CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNIT.

7. PROVIDE OUTSIDE AIR KNOCKOUT FOR CEILING MOUNTED UNIT.

8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TAG       BASIS OF DESIGN MANUFACTURER       MODEL NUMBER       LOCATION       SERVING       CAPACITY TONS       MAX °F       MIN °F       MAX °F       MIN °F       ER       REFRIGERANT TYPE       VOLTS       HERIZ       PHASE       MCA       OPER WT LB       R         CU-1       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-1, DS-2, DS-3, DS-4       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-2       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-5, DS-6, DS-7       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-3       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10, DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-4       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10, DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a <th></th> <th></th> <th></th> <th></th> <th></th> <th>COOLING</th> <th>HEATING</th> <th>COOLING A</th> <th>MBIENT DB</th> <th>HEATING A</th> <th>/BIENT DB</th> <th></th> <th></th> <th></th> <th>ELEC SEF</th> <th>RVICE</th> <th></th> <th></th> <th></th>						COOLING	HEATING	COOLING A	MBIENT DB	HEATING A	/BIENT DB				ELEC SEF	RVICE			
CU-2       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-5,DS-6,DS-7       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-3       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-6,DS-7       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-4       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10,DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-4       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10,DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-4       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10,DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a       20V       60	TAG		MODEL NUMBER	LOCATION	SERVING	CAPACITY	CAPACITY	MAX °F	MIN °F	MAX °F	MIN °F	EER		VOLTS	HERTZ	PHASE	MCA		REMARK
CU-3       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-8,DS-9       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE         CU-4       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-10,DS-11, DS-12       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE	CU-1	MITSUBISHI	MXZ-SM48NAMHZ2-U1	OUTSIDE GYMNASIUM	DS-1, DS-2, DS-3, DS-4	4	54	115	23	70	-17	19.5	R-410a	230V	60	1	45	265	SEE NOT
CU-4 MITSUBISHI MXZ-SM48NAMHZ-U1 OUTSIDE GYMNASIUM DS-10, DS-11, DS-12 4 54 115 23 70 -17 19.5 R-410a 230V 60 1 45 265 SE	CU-2	MITSUBISHI	MXZ-SM48NAMHZ2-U1	OUTSIDE GYMNASIUM	DS-5,DS-6,DS-7	4	54	115	23	70	-17	19.5	R-410a	230V	60	1	45	265	SEE NOT
	CU-3	MITSUBISHI	MXZ-SM48NAMHZ2-U1	OUTSIDE GYMNASIUM	DS-8,DS-9	4	54	115	23	70	-17	19.5	R-410a	230V	60	1	45	265	SEE NOT
CU-5       MITSUBISHI       MXZ-SM48NAMHZ2-U1       OUTSIDE GYMNASIUM       DS-13, DS-14, DS-15, DS-       4       54       115       23       70       -17       19.5       R-410a       230V       60       1       45       265       SE	CU-4	MITSUBISHI	MXZ-SM48NAMHZ2-U1	OUTSIDE GYMNASIUM	DS-10,DS-11, DS-12	4	54	115	23	70	-17	19.5	R-410a	230V	60	1	45	265	SEE NOTE
	CU-5	MITSUBISHI	MXZ-SM48NAMHZ2-U1	OUTSIDE GYMNASIUM	DS-13, DS-14, DS-15, DS-	4	54	115	23	70	-17	19.5	R-410a	230V	60	1	45	265	SEE NOTE

4. PROVIDE WIND BAFFLE KIT FOR COOLING TO 0F.

											FAN SCHEDULE									
	BASIS OF DESIGN MANUFACTURER	MODEL NUMBER	LOCATION	SERVICE	FAN TYPE	DRIVE TYPE	FLOW		FAN SI MAX [		FAN-CAPACITY CONTROL METHOD	FAN AIRFLOW ISOL	ATION TYPE	SIZE		MOTOR   MAX   SPEED	VIBRATION	ELECTRICAL	OPER WT	REMARKS
							CFM	IN WG	RPM	RPM				HP	HP	RPM			LB	
F-1	GREENHECK	SP-B110	WOMEN'S RESTROOM	WOMEN'S RESTROOM	CEILING CABINET FAN	DIRECT	75	0.50	950	806	ON/OFF MOTION SENSOR TIED TO LIGHTS FAN	I MFR'S INTEGRAL BACKI	DRAFT DAMPER ECM	80 W	NA	NA	ELASTOMERIC HANGERS	120/60/1	35	SEE NOTES
EF-2	GREENHECK	SP-B110	ALL GENDER RESTROOM	ALL GENDER RESTROOM	CEILING CABINET FAN	DIRECT	75	0.50	950	806	ON/OFF MOTION SENSOR TIED TO LIGHTS FAN	I MFR'S INTEGRAL BACKI	DRAFT DAMPER ECM	80 W	NA	NA	ELASTOMERIC HANGERS	120/60/1	35	SEE NOTES
EF-3	GREENHECK	SP-B110	JANITOR CLOSET	JANITOR CLOSET	CEILING CABINET FAN	DIRECT	75	0.50	950	806	ON/OFF MOTION SENSOR TIED TO LIGHTS FAN	I MFR'S INTEGRAL BACKI	DRAFT DAMPER ECM	80 W	NA	NA	ELASTOMERIC HANGERS	120/60/1	35	SEE NOTES
F-4	GREENHECK	SP-B110	RESTROOM 113	RESTROOM 113	CEILING CABINET FAN	DIRECT	75	0.50	950	820	ON/OFF MOTION SENSOR TIED TO LIGHTS FAN	I MFR'S INTEGRAL BACKI	DRAFT DAMPER ECM	80 W	NA	NA	ELASTOMERIC HANGERS	120/60/1	35	SEE NOTES
F-5	GREENHECK	SP-B110	RESTROOM 114	RESTROOM 114	CEILING CABINET FAN	DIRECT	75	0.50	950	806	ON/OFF MOTION SENSOR TIED TO LIGHTS FAN	I MFR'S INTEGRAL BACKI	DRAFT DAMPER ECM	80 W	NA	NA	ELASTOMERIC HANGERS	120/60/1	35	SEE NOTES

NOTES:

1. PROVIDE FAN MFR'S FACTORY-WIRED DISCONNECT SWITCH.

2. PROVIDE MOTOR WITH THERMAL OVERLOAD.

3. FOR CEILING CABINET FANS, SWITCH ON AND OFF BY DIV 26 OCCUPANCY SENSOR AND WIRING.

	ELECTRIC CEILING HEATER SCHEDULE													
TAG	BASIS OF DESIGN	MODEL	LOCATION	SERVICE	ARRANGEMENT	FA	N	CAPACITY	CONTROL	EAT	LAT	ELECTRICAL	AMPS	REMARKS
	MANFACTURER	NUMBER				AIRFLOW	SPEED	* 						
						CFM		WATTS		°F	°F			
EH-1	BERKO	QCH1151F	WOMEN'S ROOM	WOMEN'S ROOM	CEILING RECESSED	175	SINGLE	1500	ON/OFF BY TSTAT	60	96	120/60/1	12.5	SEE NOTES
EH-2	BERKO	QCH1151F	ALL GENDER RESTROOM	ALL GENDER RESTROOM	CEILING RECESSED	175	SINGLE	1500	ON/OFF BY TSTAT	60	96	120/60/1	12.5	SEE NOTES
EH-3	BERKO	QCH1151F	JAMITOR CLOSET	JAMITOR CLOSET	CEILING RECESSED	175	SINGLE	1500	ON/OFF BY TSTAT	60	96	120/60/1	12.5	SEE NOTES
EH-4	BERKO	QCH1151F	RESTROOM 113	RESTROOM 113	CEILING RECESSED	175	SINGLE	1500	ON/OFF BY TSTAT	60	96	120/60/1	12.5	SEE NOTES
EH-5	BERKO	QCH1151F	RESTROOM 114	RESTROOM 114	CEILING RECESSED	175	SINGLE	1500	ON/OFF BY TSTAT	60	96	120/60/1	12.5	SEE NOTES
					•									

NOTES:

1. PROVIDE THE FOLLOWING:

a. COLOR AS SELECTED BY ARCHITECT b. DISCONNECT SWITCH

c. UNIT TO BE RECESSED MOUNTED IN CEILING (PROVIDE RECESSED MOUNTING KIT)

d. TOTALLY-ENCLOSED STEEL FIN SHEALTH ELEMENT

2. PROVIDE FACTORY SINGLE POLE THERMOSTAT/SENSOR.

				EXHAUST \	/ENTIL	ATOR SC	HEDULE			
TAG	MAKE	MODEL	LOCATION	SERVICE	AIR FLOW (CFM)	THROAT AREA (FT <sup>2</sup> )	THROAT VELOCITY (FPM)	TOTAL PRESSURE DROP (WC)	VENTILATOR ISOLATION	REMARKS
EV-1	GREENHECK	GRSR-8	ROOF	EF-4,5	150	0.50	405	0.028	DUCT-MOUNTED MOTORIZED DAMPER	SEE NOTES
EV-2	GREENHECK	GRSR-8	ROOF	EF-1,2,3	225	0.57	608	0.038	DUCT-MOUNTED MOTORIZED DAMPER	SEE NOTES
2. PRO 3. INCI 4. PRO TO I	VIDE ALL ALUMI VIDE BIRDSCRE LUDE BASE WITH VIDE VENTILATO PROVIDE TOP HO	EN. SCHEDU I CURB CAP OR MANUFA ORIZONTAL	JLED PRESSURE DRO FOR INSTALLING ON CTURER'S 24-INCH-H SURFACE FOR MOUN	P INCLUDES INSECT SCREEN. ROOF CURB. IGH ROOF CURB SUITABLE FOR ITING VENTILATOR. INCLUDE C WIRED TO OPEN DAMPER WHE	URB DA	MPER TRA	(.		IS DENERGIZED.	1

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	MECHAN	ICAL SC	CHEDULES
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O5 SCALE AS DRAWN BY W CHECKED BY DN NOTE: ALL CONT	S M DIMENSIONS AND O ACTOR AT THE SITU	E BEFORE PRO	HALL BE VERIFIED BY THE



ASHRAE 15 REFRIGERANT CONCENTR	ATION COMPLIANCE CALCULATION	DN
SYSTEM NAME:	FUJITSU AOU48RLAVM4	CU-1
REFRIGERANT TYPE:	R-410A	
IMC ALLOWABLE CONCENTRATION:	26	LBS/1000 CFT
SYSTEM REFRIGERANT:	11.7	LBS

	ASHRAE 15 COMPLIA	NCE CALCULATIONS	- EAST WING			
SPACE	ZONE NUMBER	SPACE AREA (SF)	SPACE HEIGHT (FT)	SPACE VOLUME (CFT)	REF. CONCENTRATION (LBS\1000 CFT)	REMARKS
COMPUTER ROOM	102	223.0	10	2230	5.2	N/A
STORAGE	103	92.0	10	920	12.7	N/A
OFFICE	105	90.0	10	900	13.0	N/A
EAST CORRIDOR	100	140.0	10	1400	8.4	N/A

ASHRAE 15 REFRIGERANT CONCENTR	ATION COMPLIANCE CALCULATION	l
SYSTEM NAME:	FUJITSU AOU48RLAVM4	CU-2/CU-3/CU-4
REFRIGERANT TYPE:	R-410A	
IMC ALLOWABLE CONCENTRATION:	26	LBS/1000 CFT
SYSTEM REFRIGERANT:	35.1	LBS

ASHRAE 15 COMPLIANCE CALCULATIONS - ACTIVITY ROOM						
SPACE	ZONE NUMBER	SPACE AREA (SF)	AVG. SPACE HEIGHT (FT)	SPACE VOLUME (CFT)	REF. CONCENTRATION (LBS\1000 CFT)	REMARKS
ACTIVITY ROOM 106	106	1980.0	21	41580	0.8	N/A

ASHRAE 15 REFRIGERANT CONCENTRATION COMPLIANCE CALCULATION							
SYSTEM NAME:	FUJITSU AOU48RLAVM4	CU-5					
REFRIGERANT TYPE:	R-410A						
IMC ALLOWABLE CONCENTRATION:	26	LBS/1000 CFT					
SYSTEM REFRIGERANT:	11.7	LBS					

ASHRAE 15 COMPLIANCE CALCULATIONS - WEST WING						
SPACE	ZONE NUMBER	SPACE AREA (SF)	SPACE HEIGHT (FT)	SPACE VOLUME (CFT)	REF. CONCENTRATION (LBS\1000 CFT)	REMARKS
BREAK ROOM	107	192.0	10	1920	6.1	N/A
STORAGE	108	124.0	10	1240	9.4	N/A
STORAGE	111	120.0	10	1200	9.8	N/A
WEST CORRIDOR	110	136.0	10	1360	8.6	N/A

						VENTILAT	ION CALC	ULATIONS	5								
SPACE	FLOOR AREA (SF)	CODE USE GROUP	NUMBER OF OCC/100	NUMB OF OCC	NUMB OF PLUMB FIXT	OA CFM PER OCC	OCC OA REQD (CFM)	OA CFM PER SF REQD	AREA OA REQD (CFM)	TOT. OA (CFM)	ZONE EFFECTIVENESS (Ez)	TOT. OA REQD (CFM)	TOT. SA (CFM)	TOT. OA (CFM)	EA CFM REQD	FIXT EA CFM REQD	TOT. EA (CFM)
JANITOR CLOSET 104	50.0	RESTROOM	0	0.0	1											70	70
ACC WOMEN'S RESTROOM 112	63.0	RESTROOM	0	0.0	1											70	70
ALL GENDER RESTROOM 101	50.0	RESTROOM	0	0.0	1											70	70
RESTROOM 113	63.0	RESTROOM	0	0.0	1											70	70
RESTROOM 114	50.0	CLOSET	0	0.0	1				-					-	-	70	70
TOTAL	276			0	5		0		0	0			0	0	0	350	350
NOTES:	1. MECHA	NICAL VENTILATI	ON PROVID	ED PER S	ECTION 40	3 OF THE	2018 IMC.										

NOTES: 1. MECHANICAL VENTILATION PROVIDED PER SECTION 403 OF THE 2018 IMC. 2. OCCUPANCIES DETERMINED FROM ACTUAL NUMBER OF OCCUPANTS BASED UPON FURNITURE SHOWN ON ARCHITECTURAL DRAWINGS WHERE NUMBER/1000 SF IS SHOWN AS "N/A"

		NATURAL VENTILATIO	ON CALCULATIONS -	HAPPY HOLLOW		
SPACE	FLOOR AREA (SF)	CODE USE GROUP	REQUIRED VENTILATION AREA (SF)	ACTUAL VENTIALTION AREA (SF)	NATURALLY VENTILATED? (Y/N)	MEANS OF NATURAL VENTILATION
STORAGE 1	95	STORAGE ROOM	3.8	10	Y	OPERABLE WINDOW
STORAGE 2	120	STORAGE ROOM	4.8	0	N	N/A
GAMING ROOM 103	100	COMPUTER LAB	4	17	Y	OPERABLE WINDOWS
EAST CORRIDOR	140	CORRIDOR	5.6	38	Y	EXTERIOR DOOR
WEST CORRIDOR	140	CORRIDOR	5.6	38	Y	EXTERIOR DOOR
OFFICE	100	OFFICE SPACE	4	40	Y	OPERABLE WINDOWS
COMPUTER ROOM	225	COMPUTER LAB	9	37	Y	OPERABLE WINDOWS
ACTIVITIES ROOM	1985	GYMNASIUM	79.4	363	Y	OPERABLE WINDOWS
TOILET	25	JANITOR'S CLOSET	1	0	N	N/A
WOMEN'S RESTROOM	115	RESTROOM	4.6	17	Y	OPERABLE WINDOWS
MEN'S RESTROOM	115	RESTROOM	4.6	18	Y	OPERABLE WINDOWS
KITCHEN	195	BREAKROOM	7.8	10	Y	OPERABLE WINDOW
WEST BASEMENT	750	MECHANICAL ROOM	30	30	Y	EXTERIOR DOOR
EAST BASEMENT	750	MECHANICAL ROOM	30	30	Y	EXTERIOR DOOR
<u>NOTES:</u>	1. NATUR/	AL VENTILATION PROVIDED F	PER SECTION 402 OF	THE 2018 IMC.		
	2. UNOCCI	UPIED SPACES NOT REQUIRE	ED TO BE VENTILATE	D PER SECTION 401.2	OF THE 2019 IN	1C.

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## ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, INCLUDING THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70, AND WITH THE REQUIREMENTS/AMENDMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE 2. INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- 3. EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE PERMITTED. EACH 120V AND 277V BRANCH CIRCUIT SHALL INCLUDE DEDICATED NEUTRAL AND INSULATED GROUNDING CONDUCTORS. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH NEC ARTICLE 250.
- TRUNKING OR GROUPING OF BRANCH CIRCUITS AND FEEDERS SHALL BE PERMITTED, PROVIDED THAT THE NEC RULES PERTAINING TO MAXIMUM ALLOWABLE PERCENT FILL OF RACEWAYS, AND AMPACITY OF ADJUSTMENT FACTORS FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY ARE STRICTLY COMPLIED WITH. THE ELECTRICAL CONTRACTOR SHALL EXERCISE GREAT CAUTION IN PROVIDING AN EQUAL NUMBER OF A, B, AND C PHASE CONDUCTORS WHEN GROUPING CIRCUITS.
- TROUGHS, JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL BE SIZED (MINIMUM) IN ACCORDANCE WITH NEC ARTICLE 314. TROUGHS SHALL BE SIZED PER NEC ARTICLE 366.
- FEEDER AND BRANCH CIRCUIT WIRING ARE DEPICTED BY ASSIGNMENT 7. OF CIRCUIT NUMBERS, INTERCONNECTING WIRING AND HOMERUNS, OR HOMERUNS ONLY (FOR SINGULAR LOADS). ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT AND/OR EMT, 3/4" MINIMUM. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE UTILIZED IN LIMITED LENGTHS AS NECESSARY, OR AS REQUIRED/ALLOWED BY CODE.
- ALL NEW 600V OVER-CURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPABILITIES OR RATINGS (AIC OR AIR) IN RMS AMPERES SYMMETRICAL. ALL DEVICES SHALL BE FULLY RATED FOR AVAILABLE FAULT CURRENT. ALL PANELBOARDS, SWITCHBOARDS, MDPS, DEVICES, ETC. SHALL BE FULLY RATED.
- ALL BUILDING WIRE SHALL BE COPPER CONDUCTORS, TYPE 9. THHN/THWN-2 (DUAL LISTED) 90 DEGREE CELSIUS RATED INSULATION, #12 AWG MINIMUM. UTILIZE #10 AWG WIRE FOR ANY 15A OR 20A, 120V CIRCUIT THAT EXCEEDS 100 FEET FROM SOURCE TO LAST DEVICE OR OUTLET.
- 10. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED, UL LISTED, FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS, ROOFS, FLOORS, ETC. ALL FLOOR PENETRATIONS SHALL BE CORE-DRILLED, SLEEVED AND SEALED WITH AN APPROVED FIRE RATED SEALANT. ELECTRICAL CONTRACTOR SHALL SUBMIT LETTER TO OWNER THAT THE REQUIRED FIRE SEALANT WAS INSTALLED PER MANUFACTURER'S REQUIREMENTS. ALL EXISTING PENETRATIONS BETWEEN FLOORS AND WALLS MUST BE CLOSED TO MAINTAIN FIRE RATING.
- 11. THE ELECTRICAL CONTRACTOR SHALL PERFORM THE WORK AS INDICATED ON THE DRAWINGS. ANY DEVIATIONS FROM THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN WRITING. IF CHANGES ARE MADE WITHOUT THE ENGINEER'S WRITTEN CONSENT, THE ELECTRICAL CONTRACTOR SHALL BE LIABLE FOR ANY ISSUES THAT MAY ARISE DUE TO THE CHANGES.
- 12. UNLESS OTHERWISE NOTED, ALL WIRE SIZES SHALL BE BASED ON THE FOLLOWING:
- a. #12 THROUGH #1 OR 100A OR LESS TABLE 310.16 60° COLUMN b. #1/0 AND GREATER OR 101A OR GREATER - TABLE 310.16 75° COLUMN
- c. OTHER ALLOWANCES OF 110.14(C)
- 15. UNLESS OTHERWISE NOTED, FEEDER TAPS AND TRANSFORMER SECONDARY CONDUCTOR TAPS ARE DESIGNED BASED ON THE 10' RULE OF 240.21(B)(1) & 240.21(C)(2).
- 16. UNLESS OTHERWISE NOTED, ALL CONDUIT SIZES SHALL BE BASED ON EMT, RMC, OR RNC (PVC SCHEDULE 40).
- 17. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE NEW, LABELED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY OR AGENCY (E.G. UL), UNLESS OTHERWISE NOTED.
- 18. THE ELECTRICAL CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL EQUIPMENT IF NOT INDICATED ON DRAWINGS. IF THERE IS A DISCREPANCY, MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE.
- 19. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL EQUIPMENT, LABOR, SERVICES, AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF THE WORK INDICATED. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW.
- 20. ALL WIRING, EQUIPMENT, STARTERS AND CONTROLS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND TO THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- 21. DO NOT SCALE DRAWINGS. ELECTRICAL CONTRACTOR SHALL VERIFY AND CONFIRM ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER OF ANY AND ALL DISCREPANCIES ON THE DRAWINGS. COPIES OF THIS DRAWING WITHOUT A PROFESSIONAL ENGINEER'S SEAL AND ORIGINAL SIGNATURE SHALL NOT BE CONSIDERED VALID AND ARE FOR CONVENIENCE TO THE USER AT THEIR OWN RISK.

- 22. ALL WORK SHALL COMPLY WITH THE LATEST REVISION OF THE LOCAL UTILITY'S ELECTRICAL SERVICE REQUIREMENTS (PECO ENERGY'S BLUE BOOK) - COORDINATE ALL SERVICE WORK WITH UTILITY PRIOR TO INSTALLATION. OBTAIN UTILITY APPROVAL BEFORE ENERGIZING NEW WORK. NOTIFY PECO'S NEW BUSINESS SERVICES (FORMERLY CBS) VIA S&M APPLICATION. OBTAIN PECO REQUIREMENTS & DELINEATION OF RESPONSIBILITIES IN WRITING.
- 23. CALL BEFORE YOU DIG (PA ONE CALL SYSTEM 1-800-242-1776 OR DIAL 811). ELECTRICAL CONTRACTOR TO HIRE AN INDEPENDENT UTILITY LOCATING COMPANY TO MARK-OUT CUSTOMER OWNED/PRIVATE PROPERTY FACILITIES BEFORE DIGGING AT ELECTRICAL CONTRACTOR'S EXPENSE.
- 24. THE ELECTRICAL CONTRACTOR TO PLACE NEW EQUIPMENT, RELOCATE CURRENTLY INSTALLED EQUIPMENT, OR RE-WORK EXISTING ROOM AS REQUIRED TO COMPLY WITH WORKING CLEARANCE ISSUES, DEDICATED SPACE ISSUES, AND WITH APPLICABLE CODES.
- 25. ALL NEW BREAKERS AND/OR DEVICES BEING INSTALLED IN EXISTING ELECTRICAL PANELS OR EQUIPMENT SHALL MATCH THE CHARACTERISTICS OF THE EXISTING EQUIPMENT IN MANUFACTURER, TYPE, MINIMUM SHORT CIRCUIT RATING, ETC.
- 26. ELECTRICAL CONTRACOTR TO RE-FEED AND/OR CONNECT NEW FEEDERS TO EXISTING EQUIPMENT AS REQUIRED. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAKE ANY REQUIRED AND/OR NECESSARY CHANGES TO THE EXISTING INSTALLATION TO ALLOW FOR NEW SERVICE/FEEDER CONFIGURATION.
- 27. WITH RESPECT TO CONSTRUCTION BASED ON THESE DRAWINGS, THE ELECTRICAL CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL INSTALLED MEANS AND METHODS MEETING ALL APPLICABLE CODES AND STANDARDS.
- 28. ALL SWITCHES AND CIRCUIT BREAKERS INSTALLED IN WET AND DAMP LOCATIONS SHALL MEET NEC 404.4.
- 29. UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS ARE BASED ON INVERSE TIME TYPE AND ALL FUSES ARE BASED ON DUAL ELEMENT TIME-DELAY TYPE.
- 30. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION TO THE AREAS INVOLVED OR OTHER PARTS OF THE BUILDING ARE KEPT TO A MINIMUM. ELECTRICAL CONTRACTOR SHALL GIVE OWNER A MINIMUM OF FIVE (5) WORKING DAYS NOTICE OF ANY AND ALL WORK THAT WILL INTERFERE WITH OWNER'S OPERATIONS SO A SCHEDULE SUITABLE TO THE OWNER CAN BE ARRANGED.
- 31. PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED AND OPERATED TO DEMONSTRATE TO THE OWNER THAT THE INSTALLATION AND PERFORMANCE OF THE INSTALLED SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- 32. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A MINIMUM PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER PARTS OF THE BUILDING DAMAGED THEREBY, SHALL BE REPAIRED, REPLACED OR OTHERWISE REMEDIED WITHOUT EXPENSE TO THE OWNER. SUCH REPAIRS OR REPLACEMENTS SHALL BE MADE IN A TIMELY MANNER AND AT THE CONVENIENCE OF THE OWNER.
- 33. ALL ITEMS MARKED WITH A AN (R) ON PLAN SHALL BE DISCONNECTED AND REMOVED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REMOVE EXISTING CONDUCTORS/CABLES WHERE NO LONGER REQUIRED. REMOVE WIRE FROM ALL ABANDONED CONDUIT. RECONNECT DISTURBED FACILITIES WHICH ARE TO REMAIN AND PLACE IN OPERATING CONDITION.
- 34. UPON COMPLETION OF THE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) COMPLETE SETS OF MANUFACTURERS' OPERATING, MAINTENANCE AND PREVENTIVE MAINTENANCE INSTRUCTIONS (IN BOUND BOOK FORM) INCLUDING PARTS LIST, AND COMPLETE PROCUREMENT INFORMATION SPECIFYING EQUIPMENT NUMBERS AND DESCRIPTIONS. OPERATING STAFF PERSONNEL SHALL BE INSTRUCTED AS TO PROPER OPERATING AND SERVICE REQUIREMENTS OF THE SYSTEMS AND EQUIPMENT.
- 35. ELECTRICAL CONTRACTOR SHALL UPON COMPLETION OF THE WORK, SUBMIT A SET OF RECORD DRAWINGS SHOWING ALL BURIED OR CONCEALED EQUIPMENT OF PARTS OF THE WORK.
- 36. UPON COMPLETION OF ALL WORK, THOROUGHLY CLEAN ALL SYSTEMS OF OBSTRUCTIONS, DEBRIS, SCALE, DUST, DIRT, ETC. AND PLACE SYSTEMS IN OPERATION.
- 37. THE ELECTRICAL CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.
- 38. MAINTAIN CONTINUITY OF EXISTING SYSTEMS. PROVIDE TEMPORARY SERVICE AS NECESSARY. COORDINATE SHUTDOWNS WITH OWNER. RELOCATE, REROUTE, REMOVE OR ABANDON EXISTING WORK THAT INTERFERES WITH THE NEW ARRANGEMENT. REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE NEW WORK.

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<u>El</u>	_ECTRICAL SYMBOLS:			ST	ANDARD N	AOUNTING HEIGHTS:	ELECT
=	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V		6'-8"		<b></b>	TOP OF BACK-MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS).	A,
=	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION		6'-0"			TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT	AC AF
— <b>—</b> <sup>(+)</sup>	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION (+) INDICATES MOUNTING HEIGHT IN INCHES		46"			SWITCHES, MAGNETIC STARTERS, CONTACTORS.	· AF AF AIC AT
Here we	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V WITH (GFCI) GROUND FAULT CURRENT INTERRUPTER PROTECTION IN A WEATHER-PROOF ENCLOSURE		24"-18	5"		ELECTRICAL RECEPTACLES, 24" WITHIN MECHANICAL OR ELECTRICAL ROOMS	AF AT AV
$\rightarrow$	SIMPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V					AND WORKSHOPS.	BK C,
=⊕	QUADRUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V		00"			FINISHED FLOOR	C.I
$\vdash $	SPECIAL RECEPTACLE, CONFIGURATION NOTED ON PLANS					O CENTER OF OUTLETS UNLESS	CK CL DC
\$	20A, 120/277 VAC, SINGLE POLE TOGGLE SWITCH		2.			HEIGHTS SHALL BE NOTED OTHERWISE ON THE	DE
\$ <sub>WP</sub>	WEATHER PROOF SWITCH				AWINGS OR SPECIF		DV (E)
\$ <sub>os</sub>	OCCUPANCY SENSOR SWITCH		_				(El
\$ <sub>3</sub>	20A, 120/277 VAC, THREE-WAY SWITCH			DE	TAIL CALL	OUT SYMBOLS:	EC
\$ <sub>M</sub>	MANUAL MOTOR RATED SWITCH				$\sim$	DRAWING NUMBER	EF EL EC
	NON-FUSIBLE DISCONNECT SWITCH, 30A/3P, 600V UNLESS OTHERWISE NOTED				XX.X XX		EM
$\boxtimes \downarrow$	COMBINATION MAGNETIC STARTER, SIZE AS REQUIRED BY NEC				$\checkmark$ —	PANEL DESIGNATION	EN EN
$\square$	FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED					DETAIL # DRAWING #	EU FT
XX:X	BRANCH CIRCUIT HOMERUN INDICATES PANEL AND CIRCUIT BREAKER NUMBER					SECTION #	G, GF
	LOOP LINE INDICATES CIRCUIT CONDUCTORS AND CONDUIT CONNECTING IDENTIFIED DEVICES.					DRAWING #	HZ JB KA
JJ	JUNCTION BOX		<u>F</u>	PR	ESENTAT	ON:	KV KV
05	CEILING MOUNTED OCCUPANCY SENSOR PANELBOARD		φ [	$\mathbb{Z}$		PMENT DESIGNATED BY SOLID HEAVY CATES NEW WORK TO BE FURNISHED	LF MC MC
   	CIRCUIT BREAKER, RATINGS AS INDICATED		φ [		LINE WEIGHT INDIC	PMENT DESIGNATED BY SOLID LIGHT CATES EXISTING EQUIPMENT TO DTHERWISE INDICATED.	MI MI ML MC
T	LINE VOLTAGE THERMOSTAT FURNISHED BY HVAC CONTRACTOR						MC (N)
SD	DUCT SMOKE DETECTOR	ii	,7h ₽ 17 ⊾			PMENT DESIGNATED BY DASHED IT REPRESENTS EXISTING REMOVED AND DISPOSED, UNLESS	NE
	METER				INDICATED TO BE I TURNED OVER TO	REMOUNTED, RELOCATED, OR OWNER.	NT
PP	POWER POLE						P PH
НН	HANDHOLE		(	GΕ	NERAL DE	EMOLITION NOTES:	PN
	TRANSFORMER		_	-			PV (R)
	DAYLIGHT SENSOR, "Z#" INDICATES ZONES CONTROLLED		1.	CC		CTOR SHALL BECOME FAMILIAR WITH EXISTING NG THIS PROJECT AND COORDINATE WITH ALL	(R) (RI
			2.			TION/DEMOLITION DRAWINGS ARE INTENDED AS A THE DEMOLITION REQUIRED FOR THIS PROJECT.	RG
SECU	RITY & TELECOMMUNICATION SYMBOL	. <u>S:</u>	3.	RE	SPONSIBILITY OF T	HOWN IN COMPLETE DETAIL AND IT WILL BE THE THE GENERAL CONTRACTOR TO REMOVE EXISTING EQUIRED FOR COMPLETE DEMOLITION.	RN SC SN
	) EXISTING CAMERA AND ASSOCIATED CABLING TO BE REMOVED. COORDINATE WORK WITH CITY OF PHILADELPHIA IT. EXISTING CONDUIT TO REMAIN. TURN		4.	ΕX	TENT OF DEMOLITI	WN ON OTHER DRAWINGS IN THE SET FOR THE ON REQUIRED TO PERFORM WORK INTENT. (I.E. CHANICAL, ELECTRICAL DEMOLITION SHEETS/NOTES).	SV SF
	OVER EXISTING CAMERAS TO CITY OF PHILADELPHIA IT.		5.	TH RE GE OF CC	IE GENERAL CONTR SPONSIBLE FOR TH ENERATED FROM HI FLOOR ASSEMBLY DNSTRUCTION.	ACTOR OR ELECTRICAL CONTRACTOR ARE HE REMOVAL OF ALL DEMOLITION DEBRIS S WORK, TAKING CARE TO PREVENT OVERLOADING AND PROTECTION OF ADJACENT EXISTING	TB T∨ TS TY UE U⊦
			6	ורי		TAKE ALL DUCCALLUANS NECLOSADV TO DDEV/ENT	01

CAT 6 PATCH CORDS TO CITY OF PHILADELPHIA IT FOR FINAL CONNECTIONS. CAMERA AND CAMERA MOUNT TO BE PROVIDED BY CITY OF PHILADELPHIA IT. DATA CONNECTION - SINGLE GANG JUNCTION BOX WITH SINGLE

GANG FACEPLATE. (2) TWO CAT 6 CABLES FOR (2) TWO DATA OUTLETS. MOUNT 18" AFF. HOMERUN CABLES IN CONDUIT UP TO ABOVE CEILING AND DOWN INTO COMPUTER ROOM. INSTALL CABLES ABOVE CEILING USING J-HOOKS. COORDINATE FINAL CONNECTIONS WITHIN THE COMPUTER ROOM WITH CITY OF PHILADELPHIA IT.

# FIRE ALARM SYMBOLS:

- MANUAL PULL STATION WITH WIRE GUARD
- SMOKE DETECTOR, PHOTOELECTRIC, WITH WIRE GUARD
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL

- DURING DEMOLITION, TAKE ALL PRECAUTIONS NECESSARY TO PREVENT STRUCTURAL AND OTHER DAMAGE TO THE BUILDINGS EXISTING WALLS AND FINISHES.
- 7. PRIOR TO DEMOLITION, ELECTRICAL CONTRACTOR SHALL VERIFY BY MEANS OF VOLTAGE TESTING THAT ALL DEVICES, EQUIPMENT, ETC, TO BE REMOVED BY GENERAL CONTRACTOR ARE DE-ENERGIZED AND SAFE-OFF.
- 8. ELECTRICAL CONTRACTOR SHALL UPDATE PANELBOARD DIRECTORIES INDICATING WHICH CIRCUIT BREAKERS BECOME SPARES DUE TO DEMOLITION.

# **TELECOMMUNICATION GENERAL NOTES:**

- INSTALLATION OF CATEGORY 6 UTP CABLE SHALL BE IN ACCORDANCE WITH TIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 1.1. THE MAXIMUM PULLING FOR A SINGLE CABLE SHALL NOT EXCEED 25 POUNDS. 1.2. THE MINIMUM BENDING RADIOS OF THE CABLE SHALL NOT BE LESS
- THAN 4X THE OUTSIDE DIAMETER OF THE CABLE. THE CABLE SHALL BE INSTALLED WITHOUT KINKS OR TWISTS AND THE 1.3.
- APPLICATION OF THE CABLE TIES SHALL NOT DEFORM THE CABLE BUNDLE. CONDUITS SHALL TRANSITION INTO CABLE TRAYS USING CONDUIT AND BELLS, NO CABLE SHALL BE INSTALLED OVER ROUGH EDGES IN ANY TRANSITION.
- 1.4. STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED TO TERMINATE THE CABLE. CABLE PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2 INCH.
- CABLES SHALL BE TESTED PER THE SPECIFICATIONS, CABLES WHICH 1.5. DO NOT PASS TESTS SHALL BE REPLACED, OR RECTIFIED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL NOT INSTALL ANY NEW CATEGORY 6 CABLE 1.6. AT LENGTHS GRATER THAN 90 METERS FROM PATCH PANEL TO OUTLET BOX. THE CONTRACTOR SHALL BRING ANY CONDITIONS EXCEEDING THE CABLE LIMIT DISTANCE TO THE ENGINEER.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CABLING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FIR FURNISHING AND INSTALLING CONDUIT FROM EQUIPMENT DEVICE LOCATIONS TO DESIGNATED TERMINATION ROOMS. ALL NEW CABLING SHALL BE INSTALLED IN CONDUIT UNLESS OTHER

# TRICAL ABBREVIATIONS:

A, AMP AC	AMPERES ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	
AT AF	AMP TRIP AMP FRAME
ATC	
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C, CND	
C.B. CKT	CIRCUIT BREAKER CIRCUIT
CU	COPPER
DC	DIRECT CURRENT
DDC	DIGITAL DATA CONTROL
DWG	
(E)	EXISTING WORK/EQUIPMENT TO REMAIN
(ER) EC	EXISTING WORK/EQUIPMENT TO BE REMOVED AND RELOCATED ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EM	
EMH EMT	ELECTRICAL MANHOLE ELECTRICAL METALLIC TUBING
EUH	ELECTRIC UNIT HEATER
FT	FOOT (FEET)
G, GND	GROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
HZ JB	HERTZ JUNCTION BOX
KAIC	KILO AMPERES INTERRUPTING CURRENT
KVA	KILO VOLTS AMPERES
KW	KILOWATTS
LFMC MC	
MCB	MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER
MCA	MAXIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO MOCP	MAIN LUG ONLY MAXIMUM OVER CURRENT PROTECTION
MOCD	MAXIMUM OVER CURRENT PROTECTIVE DEVICE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
NIC NTS	
P	NOT TO SCALE POLE
PH, Ø	PHASE
PNL	PANEL
PWR	
(R) (RE)	EXISTING EQUIPMENT TO BE DISCONNECTED & REMOVED RELOCATED EXISTING WORK
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METAL CONDUIT
RNC SCCR	
SMR	SHORT CIRCUIT CURRENT RATING SURFACE METAL RACEWAY
SW	SWITCH
SPECS	SPECIFICATIONS
TBD	
TVSS TS	TRANSIENT VOLTAGE SURGE SUPPRESSION TWISTED SHIELDED
TYP.	TYPICAL
UE	UNDERGROUND ELECTRIC
UH	
UON UPS	UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
V V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHER PROOF
XFMR	TRANSFORMER

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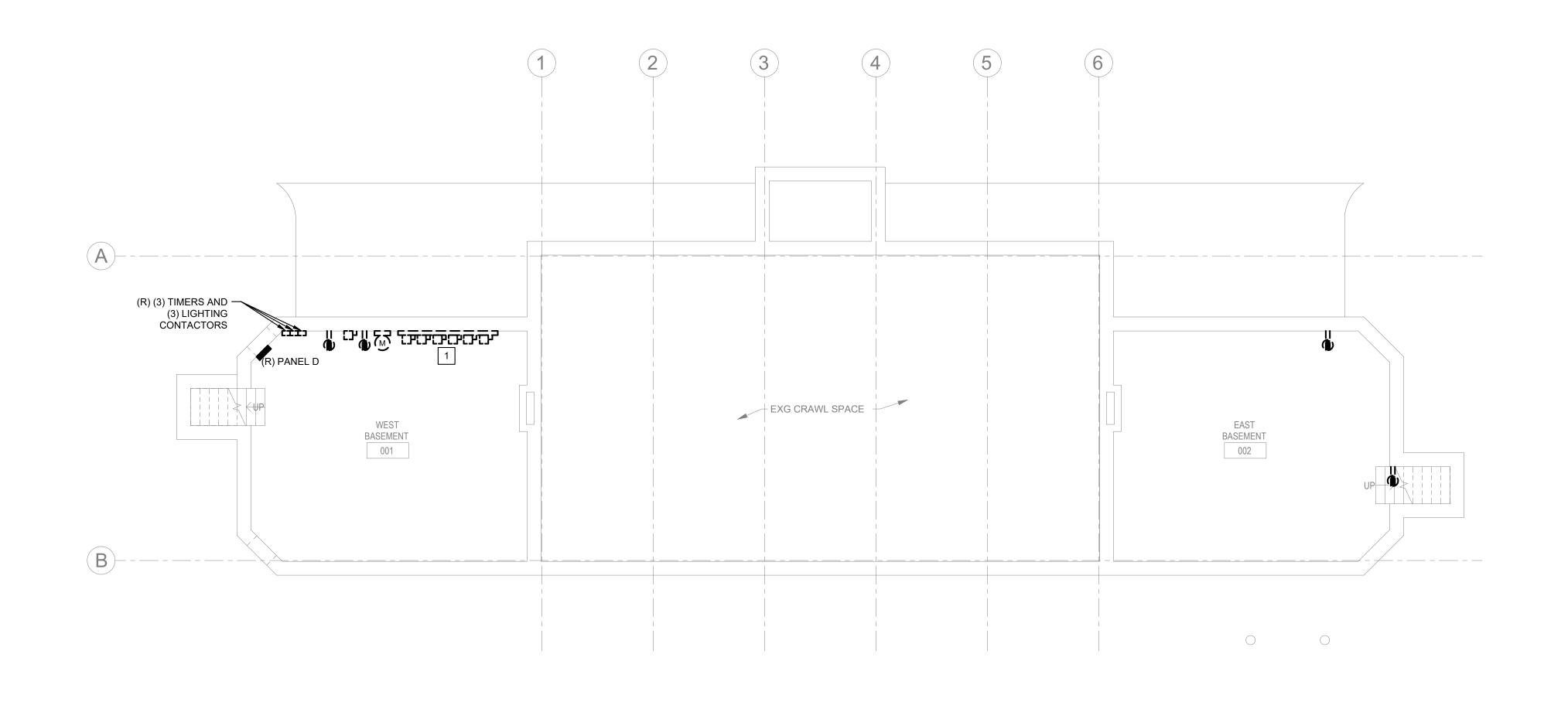
CONSTRUCTION DOCUMENTS

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

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- 2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL SCHEDULES.

AREA NOT IN SCOPE

1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

# KEYED NOTES:

1 CONTRACTOR SHALL FIELD INVESTIGATE AND VERIFY THE LOADS THAT ARE FED BY THE EXISTING DISCONNECTS IN THE WEST BASEMENT. NOTIFY ENGINEER IF ANY CIRCUITS REQUIRE SPLICING AND CONTINUATION OF SERVICE OUTSIDE OF THE WORK AREA.

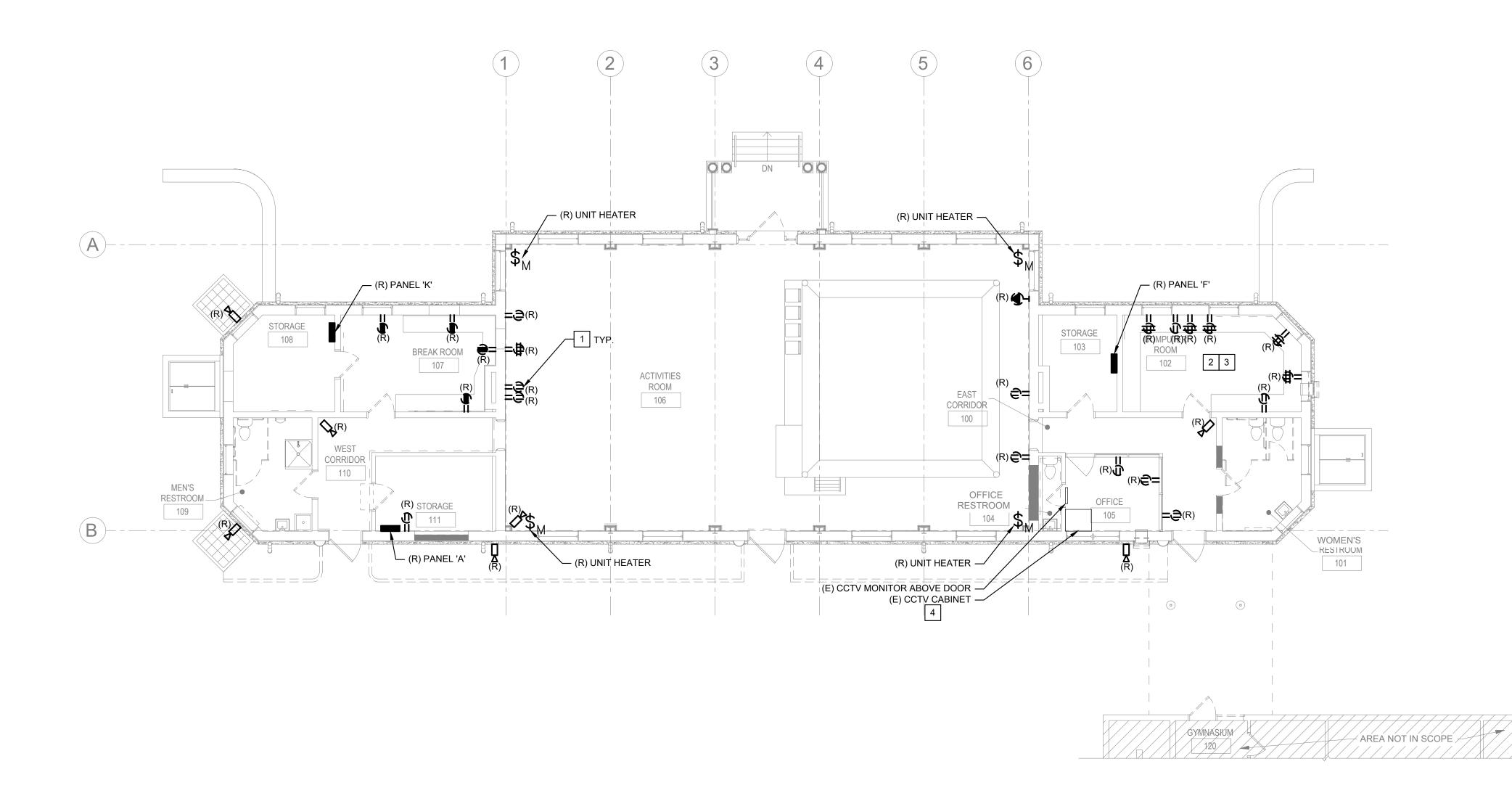
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CONSTRUCTION DOCUMENTS







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1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL

3. ALL SHOWN IS NEW UNLESS OTHERWISE NOTED AS (E) EXISTING TO REMAIN OR (R) EXISTING TO BE

## **KEYED NOTES:**

- 1 REMOVE ALL POWER DEVICES IN BUILDING AND DEMOLISH CIRCUITRY WIRING BACK TO THE PANELBOARDS. SEE SHEET E-102 FOR NEW WORK.
- 2 DISCONNECT THE EXISTING CIRCUIT FEEDING THE COMPUTER ROOM 102 FROM THE GYMNASIUM BUILDING. LOCK OUT/TAG CIRCUIT BREAKER #15 IN PANEL 'B' LOCATED IN THE GYMNASIUM BUILDING.
- 3 ALL EXISTING DATA AND PHONE CABLING, CONNECTIONS, CONDUITS AND DEVICES TO REMAIN AND PROTECTED DURING CONSTRUCTION. COORDINATE WITH CITY OF PHILADELPHIA IT. ALL EXISTING COMPUTERS AND PRINTERS WILL BE DISCONNECTED AND REMOVED PRIOR TO START OF CONSTRUCTION AND WILL BE RE-INSTALLED AFTER COMPLETION OF CONSTRUCTION BY CITY OF PHILADELPHIA IT.
- 4 EXISTING CCTV HEADEND EQUIPMENT WILL BE DISCONNECTED AND REMOVED PRIOR TO START OF CONSTRUCTION AND WILL BE RE-INSTALLED AFTER COMPLETION OF CONSTRUCTION BY CITY OF PHILADELPHIA IT.

	REVISIONS							
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## CONSTRUCTION DOCUMENTS

#### SMP ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410

LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727

CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425

PROJECT COORDINATOR

STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566

MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900

ROOFING CONSULTANT: STEPHEN MCLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424

# CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION**

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

PENNSYLVANIA

ED-102

PHILADELPHIA PROJECT TITLE

SCALE

NOTE:

DRAWN BY

CHECKED BY PL

## RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER

#### DRAWING TITLE ELECTRICAL DEMOLITION FIRST FLOOR POWER AND SECURITY PLAN

## PROJECT NO. 16315E-03-02 05/13/2025

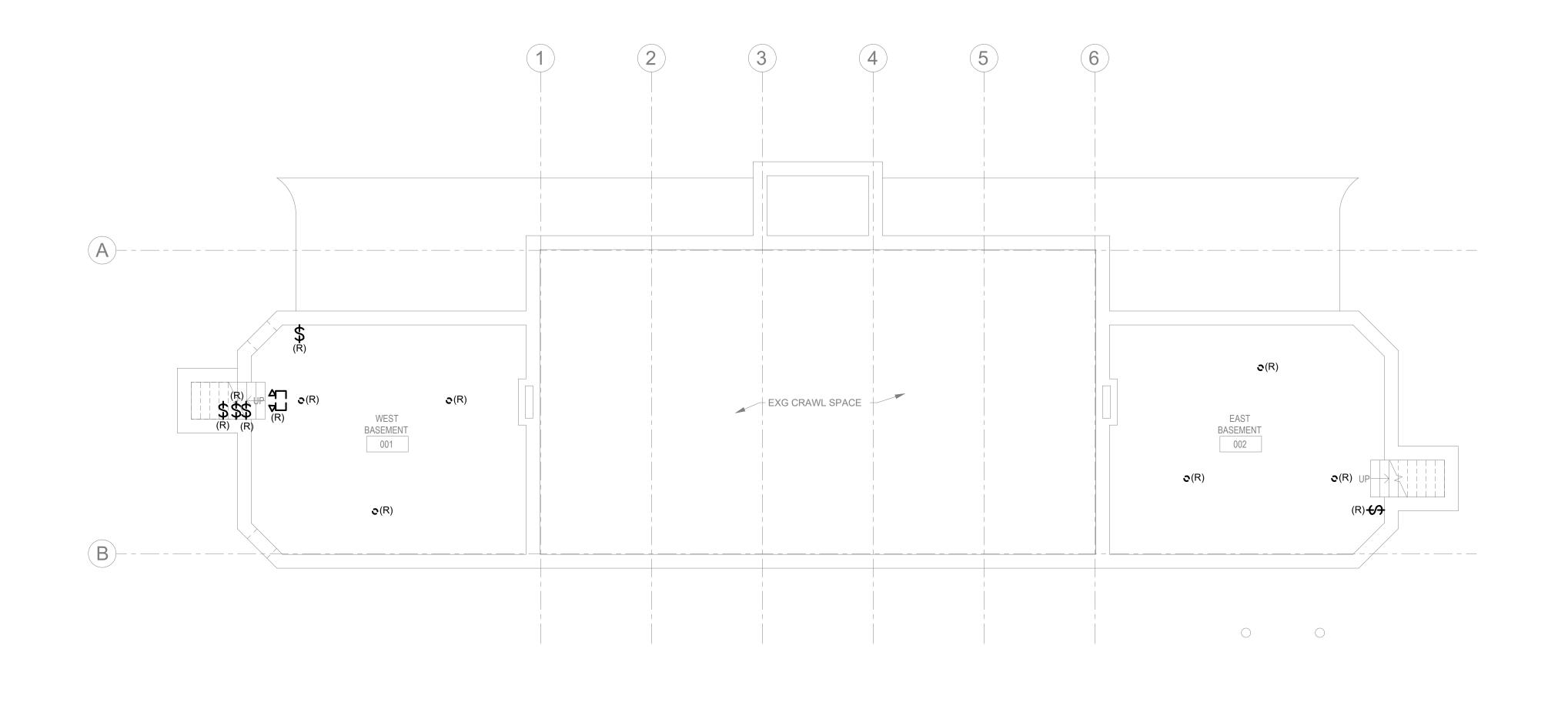
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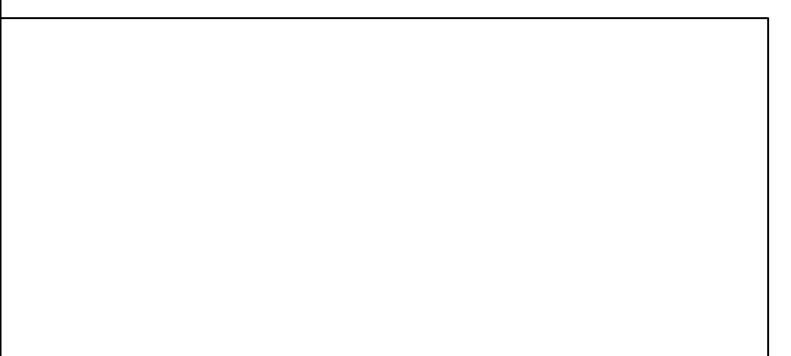
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ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE







- SCHEDULES.

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1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL

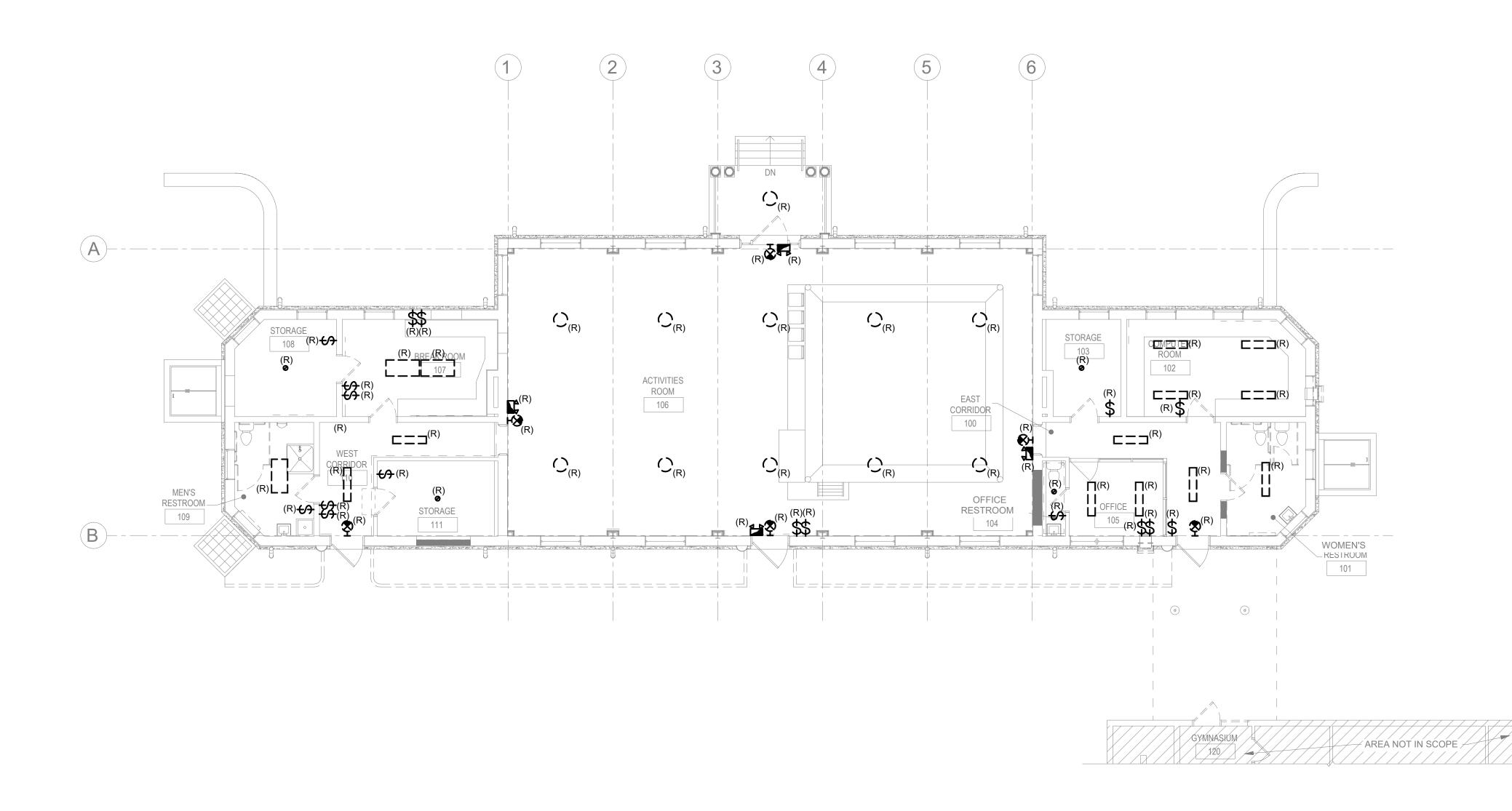
3. EXISTING LIGHT FIXTURE SHALL BE DISCONNECTED AND REMOVED. REMOVE AND DEMOLISH CIRCUITS AND CONDUIT ASSOCIATED WITH LIGHT FIXTURES BACK TO SOURCE. DISCONNECT, REMOVE AND DEMOLISH ALL EXISTING LIGHTING CONTROLS AND ASSOCIATED WIRING/CONDUIT BACK TO SOURCE.

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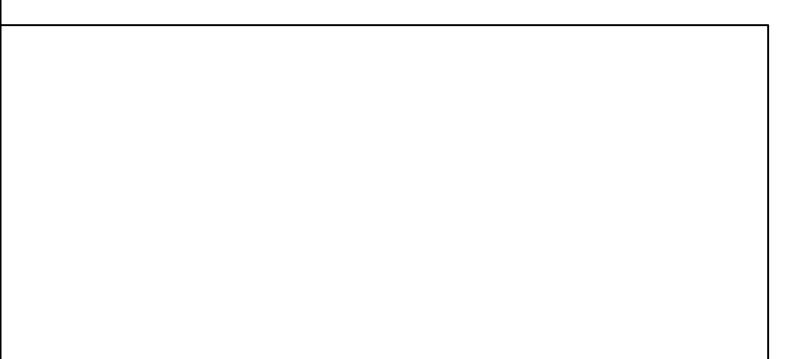
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2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL

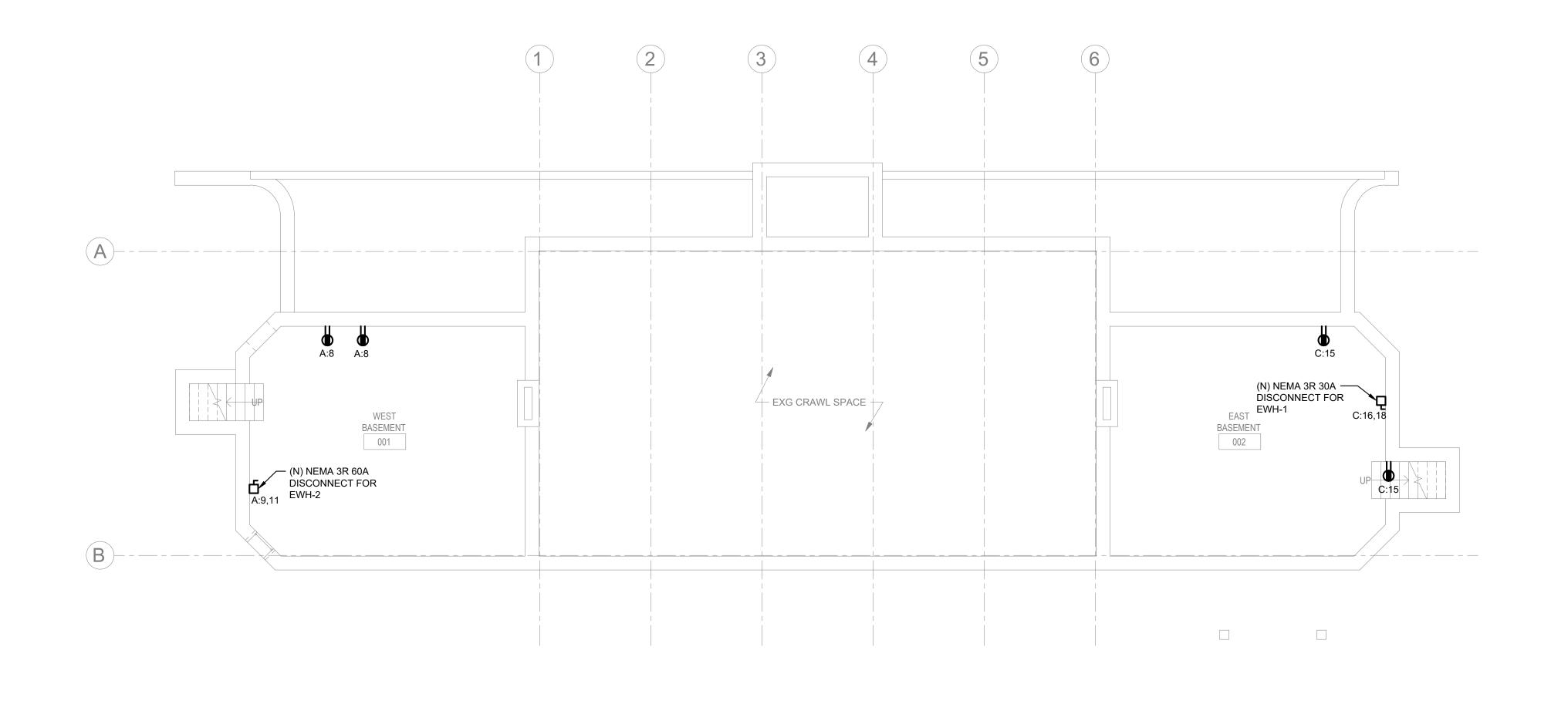
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CONSTRUCTION DOCUMENTS







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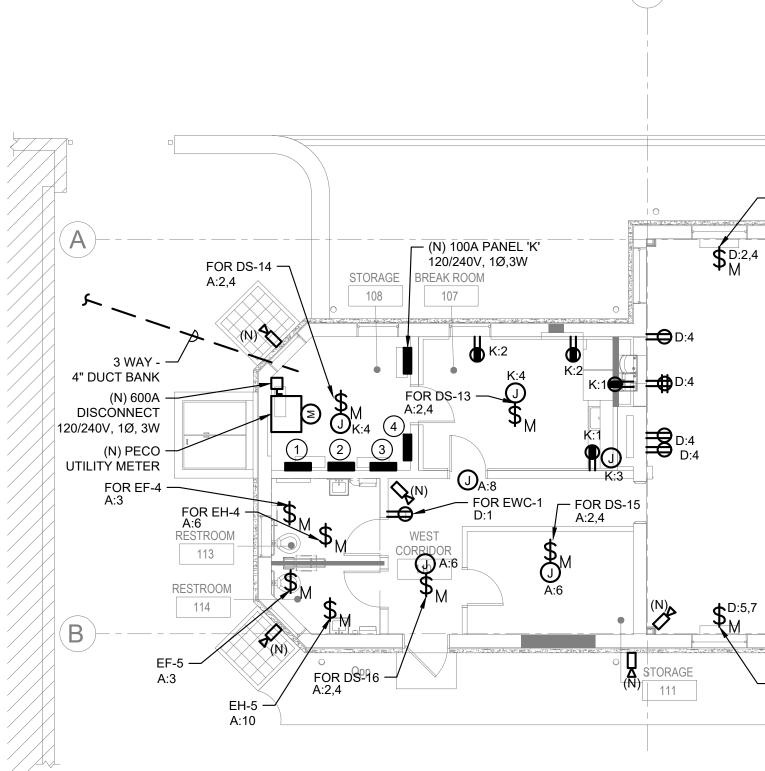
1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL SCHEDULES.

3. EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC. PLEASE REFER TO ARCHITECTURAL PLANS FOR PRECISE LOCATIONS OF EQUIPMENT.

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	NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK	1515 A IITH FLOOR, ON HIA OVATIONS OW RECF CTRICAL PO 315E-03-02	ACH STREET E PARKWAY BUILDING PENNSYLV STO THE HAPPY EATION CENTER WER BASEMENT PLA DRAWING NO. DRAWING NO.		

8 4 0 8 SCALE: 1/8"=1'-0"



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## GENERAL NOTES:

- SCHEDULES.
- 2 (3)4 6 (5) – FOR DS-5 - FOR DS-7 FOR DS-8 /--- FOR DS-6 Training | Provident - 1 -Œ--<u>t</u> \$D:2,4 \$<sup>D:2,4</sup> \$D:1,3 M COMPUTER GAMING ROOM ROOM 103 102 D:3 🗲 C:12 -**- 67** C:4,6 FOR DS-2 \_**≤**( C:11 (J) BOXING RING FOR DS-1 ACTIVITIES C:4,6 ROOM  $\triangleright$ D:3 🗲 — FOR EH-1 C:3 ACC WOMEN'S 106 Ç:17 RESTROOM - FOR EF-1 112 -0:5 **D** C:12 - FOR EF-3 (N) 100A PANEL 'C' 120/240V, 1Ø,3W -C:10 D:3 C:3 C:11 ALL GENDER JANITOR'S RESTROOM CLOSET - FOR EF-2 (NON ACC) **d**D:5,7 **#D**:1. C:8 101 FOR EH-2 C:7 C:12 C:4,6 FOR DS-3 FOR DS-9 FOR EH-3 - FOR DS-10 - FOR DS-12 - FOR DS-11 – FOR DS-4 C:4,6 C:9 EAST 100 (N) NEMA 3R 60A -DISCONNECT FOR CU-5 (N) NEMA 3R 60A ----DISCONNECT FOR <u></u>ק CU-4 GYMNASIUM (N) NEMA 3R60A 120/ DISCONNECT FOR CU-2 X-1# AREA NOT IN SCOPE 7 X-1# (N) NEMA 3R 60A DISCONNECT FOR CU-3 (N) NEMA 3R 60A DISCONNECT FOR CU-1 ╎╴┤╘╡═╡╴ EQ 5'-11"

1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL

3. ALL SHOWN IS NEW UNLESS OTHERWISE NOTED AS (E) EXISTING TO REMAIN OR (R) EXISTING TO BE REMOVED.

## **KEYED NOTES:**

(N) 400A MAIN DISTRIBUTION PANEL 'MDP' -120/240V, 1Ø, 3W

(2) (N) 100A PANEL 'A' - 120/240V, 1Ø, 3W

(3) (N) LIGHTING CONTROL PANEL

(4) (N) 100A PANEL 'D' - 120/240V, 1Ø, 3W

5 SPRAYGROUND CONTROLS. REFER TO SITE PLAN FOR EXACT LOCATION.

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MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900

610 688 2566

ROOFING CONSULTANT: STEPHEN MCLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424

CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 

> 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING

> > PENNSYLVANIA

PHILADELPHIA PROJECT TITLE

DRAWING TITLE

## RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER

## ELECTRICAL POWER AND SECURITY FIRST FLOOR PLAN

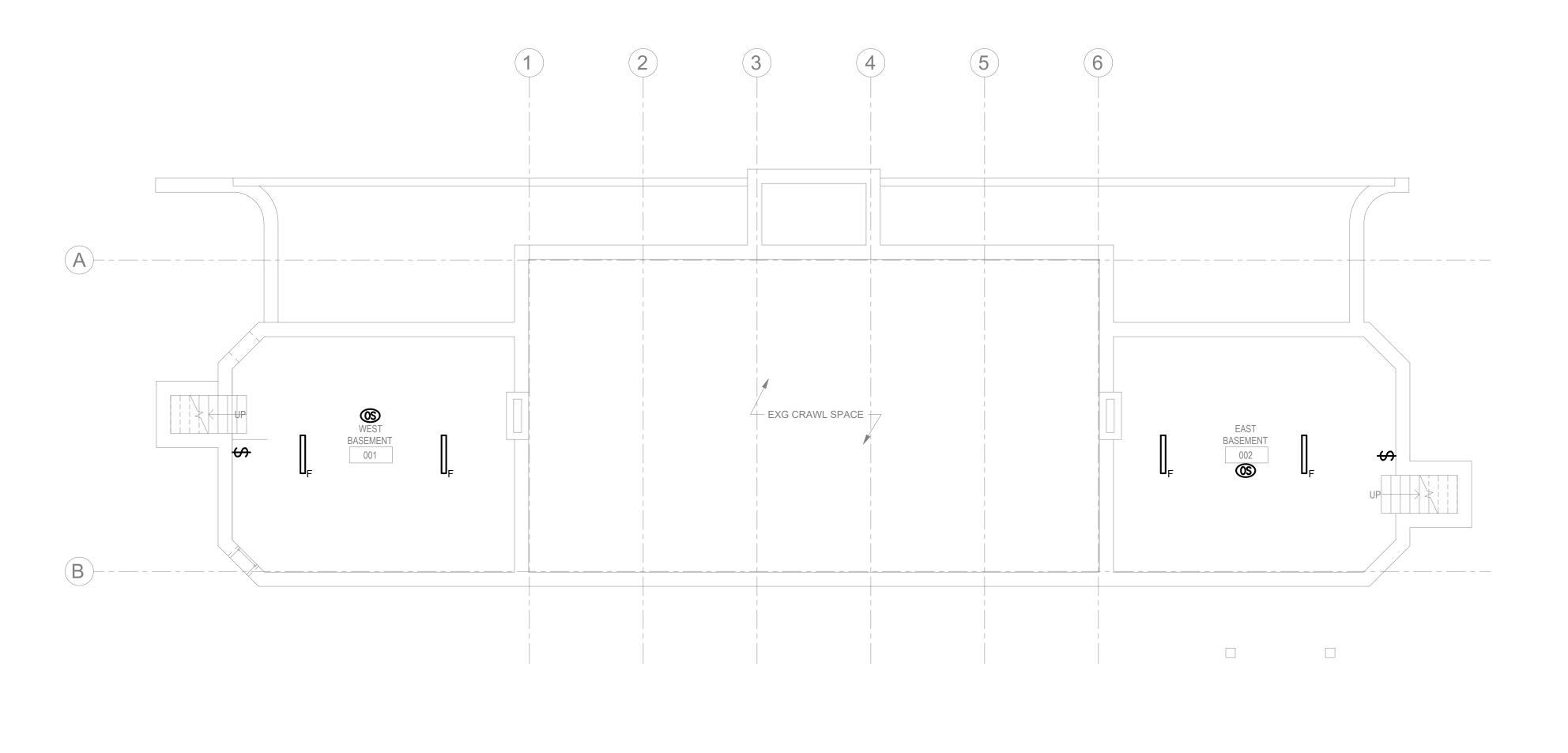
# PROJECT NC

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		SCALE	: 1/8"=1'-0"	

CONSTRUCTION DOCUMENTS









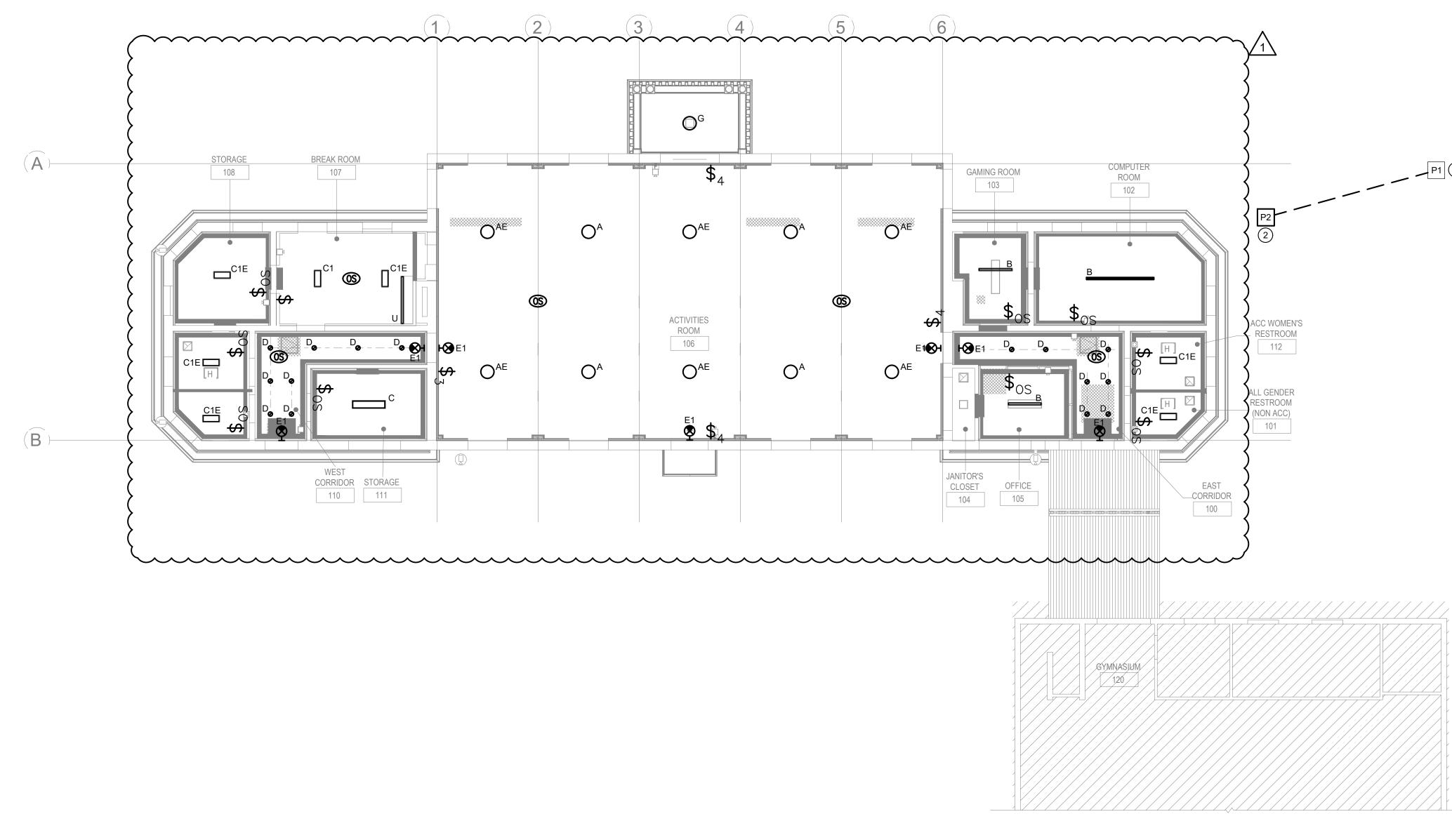
- 2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL SCHEDULES.
- ALL SHOWN IS NEW UNLESS OTHERWISE NOTED AS (E) EXISTING TO REMAIN OR (R) EXISTING TO BE REMOVED.

AREA NOT IN SCOPE

1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

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		SCAL	E: 1/8"=1'-0"	







- SCHEDULES.
- RÉMOVED.
- 4. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATIONS OF LIGHT POLES.

1. REFER TO DRAWING E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. REFER TO SHEET E-601 AND E-602 FOR ELECTRICAL

#### 3. ALL SHOWN IS NEW UNLESS OTHERWISE NOTED AS (E) EXISTING TO REMAIN OR (R) EXISTING TO BE

# **KEYED NOTES:**

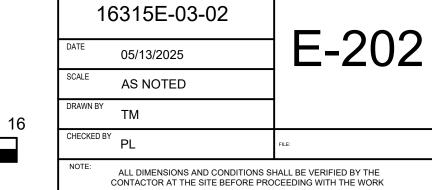
1 EXISTING LIGHT POLE TO REMAIN. REPLACE EXISTING FIXTURE HEADS WITH NEW LED LUMINAIRES.

2 PROVIDE 2#12, 1#12G IN 1"C AND FEED NEW LIGH POLE FROM THE ADJACENT POLE LIGHT.

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STEPHEN I stevemclaug 856 287 242	<b>/IcLAUGHLIN</b> ghlin.biz	TROOFING CONS	SULTANT
DEPAR	TMENT C	ARCH STREET	RECREATION
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PHILADELPHIA PROJECT TITLE	4		PENNSYLVANIA

DRAWING TITLE
ELECTRICAL LIGHTING FIRST FLOOR
PLAN

# PROJECT NO.



CONSTRUCTION DOCUMENTS

P1 (1)

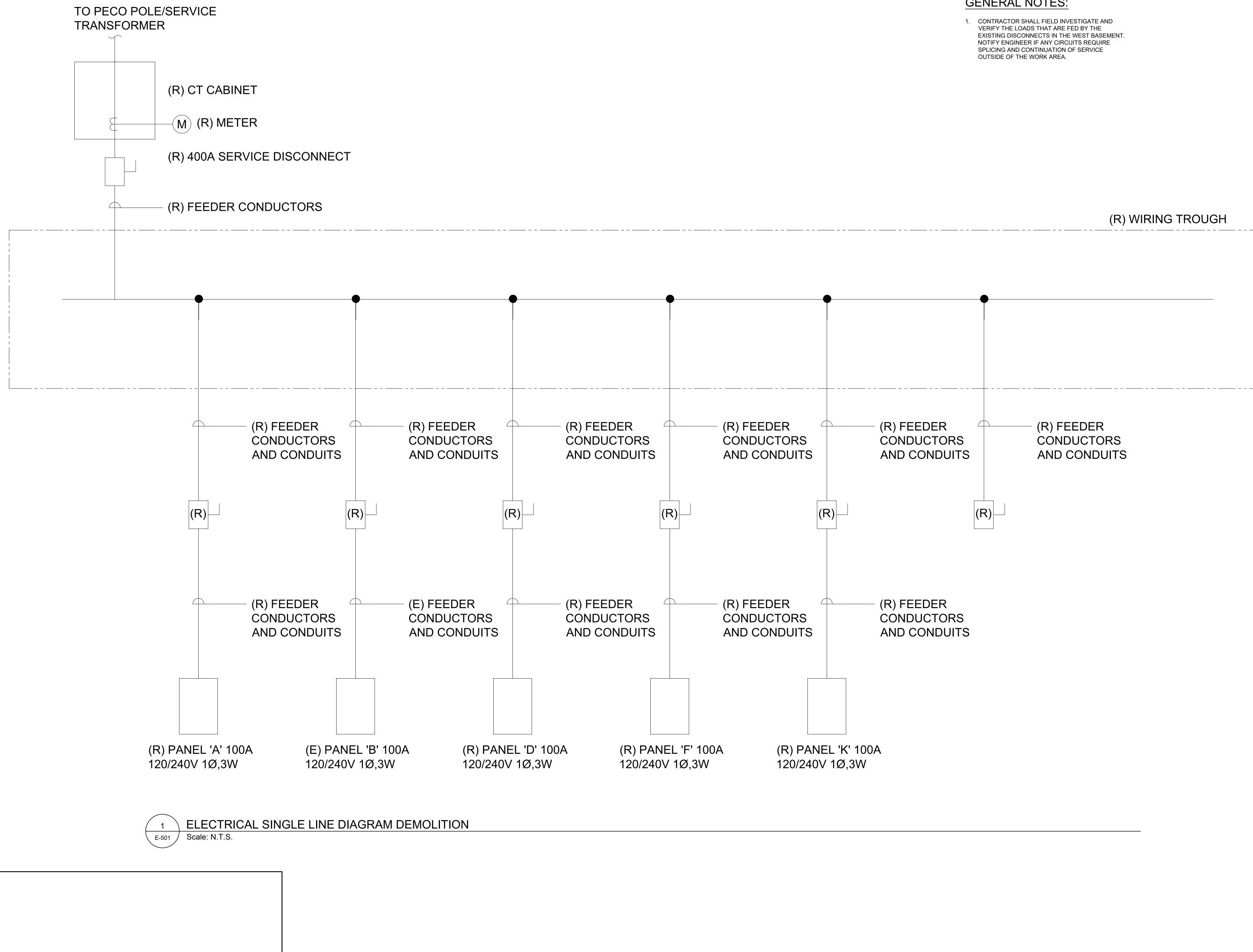
P1 (1)

8 4 0

8

SCALE: 1/8"=1'-0"

P1 (1)

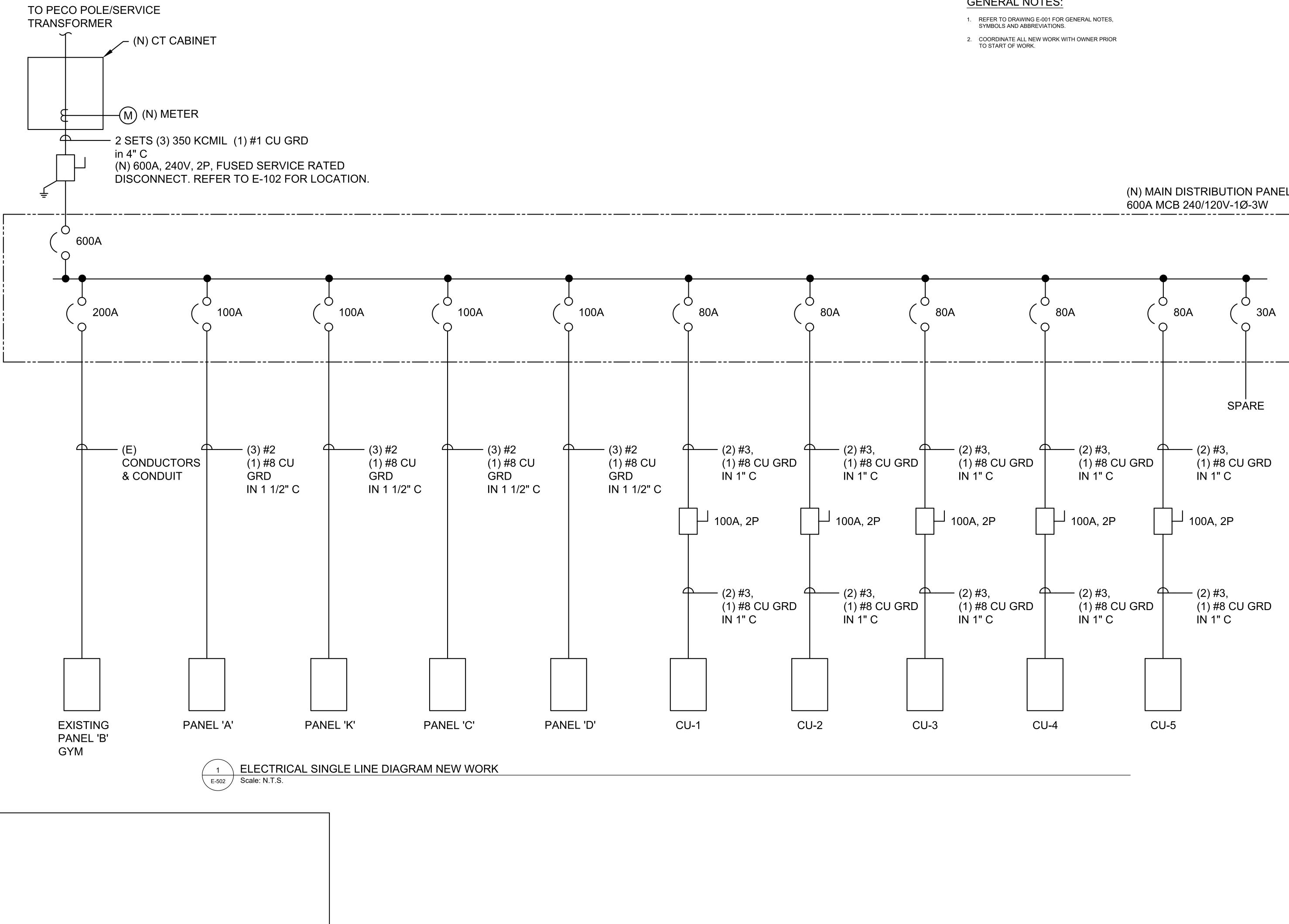


1. CONTRACTOR SHALL FIELD INVESTIGATE AND VERIFY THE LOADS THAT ARE FED BY THE EXISTING DISCONNECTS IN THE WEST BASEMENT. NOTIFY ENGINEER IF ANY CIRCUITS REQUIRE SPLICING AND CONTINUATION OF SERVICE OUTSIDE OF THE WORK AREA.

## (R) WIRING TROUGH

(R) FEEDER CÓNDUCTORS AND CONDUITS

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	CONSTRUCTION DOCUMENTS
	PROJECT COORDINATOR
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	SMP ARCHITECTS
	1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410
	LANDSCAPE ARCHITECT:
	GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727
	CIVIL ENGINEER: KS ENGINEERS
	www.kseng.com 215 925 0425
	STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com
	610 688 2566 <u>MEP ENGINEER:</u>
	ARORA ENGINEERS www.aroraengineers.com 610 459 7900
	ROOFING CONSULTANT: STEPHEN MCLAUGHLIN ROOFING CONSULTANT
	stevemclaughlin.biz 856 287 2424
	CITY OF PHILADELPHIA
	DEPARTMENT OF PARKS & RECREATION 1515 ARCH STREET
	11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA
	PROJECT TITLE
	RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER
	ELECTRICAL SINGLE LINE DIAGRAM NEW WORK
	PROJECT NO. DRAWING NO.
	16315E-03-02 DATE 05/13/2025 SCALE AS NOTED DRAWN BY
	16315E-03-02 DATE 05/13/2025 E-502 SCALE AS NOTED
	16315E-03-02 <sup>DATE</sup> 05/13/2025 SCALE AS NOTED DRAWN BY TM CHECKED BY

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TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO. (ALTERNATE )	BASIS OF DESIGN			]
			(BASIS OF DESIGN)	(BASIS OF DESIGN)	(ALTERNATE)		TYPE	WATTS	VOLTS	
A	22" INDUSTRIAL HIGH-BAY LUMINAIRE WITH MODERN LAMP TECHNOLOGY	PENDANT	LITHONIA LIGHTING	JCBL-9000LM-ACFR-MVOLT-GZ10 -35K-80CRI	-	-	LED 3500K 9000LM	63	120	
AE	22" INDUSTRIAL HIGH-BAY LUMINAIRE WITH MODERN LAMP TECHNOLOGY WITH INTEGRAL EMERGENCY BATTERY PACK	PENDANT	LITHONIA LIGHTING	JCBL-9000LM-ACFR-MVOLT-GZ10 -35K-80CRI-E10WCP	-	-	LED 3500K 9000LM	63	120	
В	OPEN CEILING LED SUSPENDED LINEAR (4 OR 8 FEET)	PENDANT	LITHONIA LIGHTING	LL8-6000LM-80CRI-35K-CPD-MIN10 -MVOLT	-	-	LED 3500K 6000LM	50	120	
BE	OPEN CEILING LED SUSPENDED LINEAR WITH INTEGRAL EMERGENCY BATTERY PACK	SURFACE	LITHONIA LIGHTING	LL8-6000LM-80CRI-80K-CPD-MIN10 -MVOLT-1E10WCP	-	-	LED 3500K 6000LM	50	120	
С	4' LOW-PROFILE CURVED-BASKET LED WRAPAROUND	SURFACE	LITHONIA LIGHTING	LBL4W-6500LM-80CRI-35K-MIN10- MVOLT	-	-	LED 3500K 6490LM	50.1	120	
CE	4' LOW-PROFILE CURVED-BASKET LED WRAPAROUND WITH INTEGRAL EMERGENCY BATTERY PACK	SURFACE	LITHONIA LIGHTING	LBL4W-6500LM-80CRI-35K-MIN10- MVOLT-E10WLCP	-	-	LED 3500K 6490LM	50.1	120	
C1	2' LOW-PROFILE CURVED-BASKET LED WRAPAROUND	SURFACE	LITHONIA LIGHTING	LBL2-2000LM-80CRI-35K-MIN10- MVOLT	-	-	LED 3500K 2014LM	16.9	120	
C1E	2' LOW-PROFILE CURVED-BASKET LED WRAPAROUND WITH INTEGRAL EMERGENCY BATTERY PACK	SURFACE	LITHONIA LIGHTING	LBL2-2000LM-80CRI-35K-MIN10- MVOLT-EMG	-	-	LED 3500K 2014LM	16.9	120	
D	COMPACT CEILING MOUNTED DOWNLIGHT WITH ASYMMETRIC DISTIBUTION	CEILING	BEGA	B-24425		-	LED 3500K 766LM	12	120	
E1	COMBO UNIT (EXIT SIGN AND EMERGENCY LIGHT)	CEILING / WALL	LITHONIA LIGHTING	ECRG RD M6	-	-	LED	5	120	
F	VAPOR TIGHT LED STRIP LIGHT	PENDANT	LITHONIA LIGHTING	CSVT-L48-3000LM-MVOLT-80CRI	-	-	LED 3500K 3033LM	24	120	
G	EXTERIOR ROUND LIGHT	CEILING	LUMINIS	SN800-L1L23-35K-120	-	-	LED	29	120	
U	UNDER CABINET LIGHT	UNDER CABINET	LITHONIA LIGHTING	UCES 36IN SWW6 90CRI WH M6	-	-	LED	16	120	
P1	POLE LIGHT (FIXTURE ONLY)	POLE	SELUX	DSC4L-R5R-S2-5G530-40-BK	-	-	LED	47	120	
P2	POLE LIGHT	POLE	SELUX	DSC4L-R5R-S2-5G530-40-BK	-	-	LED	47	120	



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1600 Walnu Philadelphia 215 985 44 LANDSCAF GROUND F WWW.groum 215 790 07: CIVIL ENGI KS ENGINE WWW.kseng 215 925 04: STRUCTUF ANN ROTH arstructural. 610 688 250 MEP ENGIN ARORA EN WWW.arorae 610 459 790 ROOFING ( STEPHEN I stevemclau 856 287 24: C DEPAF 11 PHILADELPHI PROJECT TITLE	A Pennsylvani PE ARCHITEC RECONSIDER dreconsidered 27 NEER: COM 25 RAL ENGINEE IMANN STRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CO	a 19103 T: ED .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com .com	S CONSULTANT DELPHIA (S & RECREATIO REET WAY BUILDING PENNSYLVANIA THE HAPPY
1600 Walnu Philadelphia 215 985 44 LANDSCAF GROUND F WWW.groum 215 790 07: CIVIL ENGI KS ENGINE WWW.kseng 215 925 04: STRUCTUF ANN ROTH arstructural. 610 688 250 MEP ENGIN ARORA EN WWW.arorae 610 459 790 ROOFING O STEPHEN stevemclau 856 287 24: O DEPAF 11 PHILADELPHI PROJECT TITLE ELE PROJECT NO.	A Pennsylvani PE ARCHITEC RECONSIDER dreconsidered 27 NEER: COM 25 RAL ENGINEE IMANN STRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN CONSULTAN MINISTRU CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CON	A 19103	DELPHIA DELPHIA (S & RECREATIO REET WAY BUILDING PENNSYLVANIA THE HAPPY ION CENTER
1600 Walnu Philadelphia 215 985 44 LANDSCAF GROUND F WWW.groun 215 790 07: CIVIL ENGI KS ENGINE WWW.kseng 215 925 04: STRUCTUF ANN ROTH arstructural 610 688 250 MEP ENGIN ARORA EN WWW.arorac 610 459 790 ROOFING O STEPHEN stevemclau 856 287 24: DEPAF 0 DEPAF 11 PHILADELPHI PROJECT TITLE RENC HOLLO DRAWING TITLE ELE PROJECT NO. 163 °	A Pennsylvani PE ARCHITEC RECONSIDER dreconsidered A PER: ERS .com 25 RAL ENGINEE MANN STRU .com 66 NEER: IGINEERS engineers.com 0 CONSULTAN MCLAUGHLIN ghlin.biz 24 CITY OF TMENT C 1515 TH FLOOR, C A OVATION OVATION OVATION OVATION OVATION OVATION CTRICAL I	A 19103	A CONSULTANT DELPHIA (S & RECREATIO REET WAY BUILDING PENNSYLVANIA THE HAPPY ION CENTER IRE SCHEDULE DRAWING NO.
1600 Walnu Philadelphia 215 985 44 LANDSCAF GROUND F WWW.groun 215 790 07: CIVIL ENGI KS ENGINE WWW.kseng 215 925 04: STRUCTUF ANN ROTH arstructural. 610 688 250 MEP ENGIN ARORA EN WWW.arorac 610 459 790 ROOFING O STEPHEN stevemclau 856 287 24: CO DEPAF 11 PHILADELPHI PROJECT TITLE RENC HOLLO DRAWING TITLE ELE PROJECT NO. 163 °	A Pennsylvani PE ARCHITEC RECONSIDER dreconsidered 27 NEER: COM 25 RAL ENGINEE IMANN STRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN MINISTRU CONSULTAN CONSULTAN MINISTRU CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CONSULTAN CON	A 19103	DELPHIA DELPHIA (S & RECREATIO REET WAY BUILDING PENNSYLVANIA THE HAPPY ION CENTER IRE SCHEDULE
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1600 Walnu Philadelphia 215 985 44 LANDSCAF GROUND F WWW.groun 215 790 07: CIVIL ENGI KS ENGINE WWW.kseng 215 925 04: STRUCTUF ANN ROTH arstructural. 610 688 250 MEP ENGIN ARORA EN WWW.arorae 610 459 790 ROOFING 0 STEPHEN stevemclau 856 287 24: CO DEPAF 11 PHILADELPHI PROJECT TITLE RENC HOLLO DRAWING TITLE ELE PROJECT NO. 163 °	A Pennsylvani PE ARCHITEC RECONSIDER dreconsidered A NEER: ERS .com 25 RAL ENGINEE MANN STRU .com 66 NEER: IGINEERS engineers.com 00 CONSULTANT MCLAUGHLIN ghlin.biz 24 CITY OF RTMENT C 1515 TH FLOOR, C A OVATION OVATION OVATION CTRICAL I 15E-03-C /13/2025 S NOTED A	A 19103	A CONSULTANT DELPHIA (S & RECREATIO REET WAY BUILDING PENNSYLVANIA THE HAPPY ION CENTER IRE SCHEDULE DRAWING NO.

	(N) PANEL SCHEDULE 'A'												
	PANEL: A	FED FROM: MDP	IN	ITERI	RUPTING	RATING:	22 KAI	)			MC	DUNTING: SURFACE	
	VOLTAGE: 240/120V         PHASE:         1         WIRE:         3         BUS AMPS:         100A         MAIN:         100 MLO												
	NEMA 1	NEUTRAL:	10	0%		COPF	PER GND	BUS			LC	DCATION: STORAGE RM 111	
CIRCUIT	CIRCUIT DESCRIPTION	BRANCH CIRCUIT CONDUCTORS AND	POLES	BKR SIZE	VA	VA / F	PHASE	VA	BKR SIZE	POLES	BRANCH CIRCUIT CONDUCTORS AND	CIRCUIT DESCRIPTION	CIRCUIT
CIR		CONDUIT	Po	BKR		A	В	•//	BKR	РО	CONDUIT		CIR
1	ELECTRICAL WATER COOLER	2#12, 1#12G IN 3/4"C	1	20	500	600		100	20	2	2#12, 1#12G IN 3/4"C	DS-13,DS14, DS-15,DS-16	2
3	EXHAUST FAN EF-4 & EF-5	2#12, 1#12G IN 3/4"C	1	20	80		180	100	20	2			4
5	RCPT: STORAGE RM	2#12, 1#12G IN 3/4"C	1	20	180	1680		1500	20	1	2#12, 1#12G IN 3/4"C	ELECTRIC HEATER EH-4	6
7	RCPT: WEST BASEMENT	2#12, 1#12G IN 3/4"C	1	20	360		460	100	20	1	2#12, 1#12G IN 3/4"C	MOTORIZED DAMPER	8
9	ELECTRIC WATER HEATER	2#6, 1#10G IN 1"C	1	50	7500	9000		1500	20	1	2#12, 1#12G IN 3/4"C	ELECTRIC HEATER EH-5	10
11	EWH-2	2#0, 1#100 IN 1 0		50	7500		7500	0	20	1	-	SPARE	12
13	SPARE	-	1	20	0	0		0	20	1	-	SPARE	14
15	SPARE	-	1	20	0		0	0	20	1	-	SPARE	16
17	SPARE	-	1	20	0	0		0	20	1	-	SPARE	18
19	SPARE	-	1	20	0		0	0	20	1	-	SPARE	20
21	SPARE	-	1	20	0	0		0	20	1	-	SPARE	22
23	SPARE	-	1	20	0		0	0	20	1	-	SPARE	24
25	SPARE	-	1	20	0	0		0	20	1	-	SPARE	26
27	SPARE	-	1	20	0		0	0	20	1	-	SPARE	28
29	SPARE	-	1	20	0	0		0	20	1	-	SPARE	30
31	SPARE	-	1	20	0		0	0	20	1	-	SPARE	32
33	SPARE	-	1	20	0	0		0	20	1	-	SPARE	34
35	SPARE	-	1	20	0		0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0		0	20	1		SPARE	38
39	SPARE	-	1	20	0		0	0	20	1	-	SPARE	40
41	SPARE	-	1	20	0	0		0	20	1	-	SPARE	42
	NOTES:					тот	ALS						
						11280	8140						
				1942	0 VA					80.92 AMPS			

	(N) PANEL SCHEDULE 'D'												
	PANEL: D FED FROM: MDP INTERRUPTING RATING: 22 KAIC MOUNTING: SURFACE												
	VOLTAGE: 240/120V	PHASE:		1		W	/IRE: 3	BUS AN	MPS:	100/	ł	MAIN: 100 MLO	
	NEMA 1	NEUTRAL:	10	0%		COPF	PER GND	BUS			LC	DCATION: STORAGE RM 111	
CIRCUIT	CIRCUIT DESCRIPTION	BRANCH CIRCUIT CONDUCTORS AND CONDUIT	POLES	BKR SIZE	VA	VA / P A	PHASE B	VA	BKR SIZE	POLES	BRANCH CIRCUIT CONDUCTORS AND CONDUIT	CIRCUIT DESCRIPTION	CIRCUIT
1	DS-8, DS-9	2#12, 1#12G IN 3/4"C	2	20	100 100	200	200	100 100	- 20	2	2#12, 1#12G IN 3/4"C	DS-5, DS-6, DS-7	2
5 7	DS-10, DS-11, DS-12	2#12, 1#12G IN 3/4"C	2	20	100 100	1000	100	900 0	20 20	1	2#12, 1#12G IN 3/4"C -	RCPT: ACTIVITIES RM SPARE	6 8
9	RCPT: ACTIVITIES RM	2#12, 1#12G IN 3/4"C	1	20	720	720		0	20	1	-	SPARE	10
11	SPARE	-	1	20	0		0	0	20	1	-	SPARE	12
13	SPARE	-	1	20	0	0		0	20	1	-	SPARE	14
15	SPARE	-	1	20	0		0	0	20	1	-	SPARE	16
17	SPARE	-	1	20	0	0		0	20	1	-	SPARE	18
19	SPARE	-	1	20	0		0	0	20	1	-	SPARE	20
21	SPARE	-	1	20	0	0		0	20	1	-	SPARE	22
23	SPARE	-	1	20	0		0	0	20	1	-	SPARE	24
25	SPARE	-	1	20	0	0		0	20	1	-	SPARE	26
27	SPARE	-	1	20	0		0	0	20	1	-	SPARE	28
29	SPARE	-	1	20	0	0		0	20	1	-	SPARE	30
31	SPARE	-	1	20	0		0	0	20	1	-	SPARE	32
33	SPARE	-	1	20	0	0		0	20	1	-	SPARE	34
	SPARE	-	1	20	0		0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0		0	20	1	-	SPARE	38
39	SPARE	-	1	20	0		0	0	20	1	-	SPARE	40
41	SPARE	-	1	20	0	0		0	20	1	-	SPARE	42
	NOTES:					1920	ALS 300 D VA	9.25 AMPS					

	(N) PANEL SCHEDULE 'C'												
	PANEL: C	FED FROM: MDP	IN	TER	RUPTING	RATING:	22 KAIC	;			MC	OUNTING: SURFACE	
VOLTAGE: 240/120V PHASE: 1						W	WIRE: 3 BUS AMPS: 100A MAIN: 100 MLO						
NEMA 1 NEUTRAL: 100%						COP	PER GND I	BUS			LC	CATION: STORAGE RM 103	
CIRCUIT	CIRCUIT DESCRIPTION	BRANCH CIRCUIT CONDUCTORS AND	POLES	BKR SIZE	VA	VA / F	HASE	VA	BKR SIZE	POLES	BRANCH CIRCUIT CONDUCTORS AND	CIRCUIT DESCRIPTION	CUIT
CIRC	CIRCOT DESCRIPTION	CONDUCTORS AND	IOd	BKR	VA	А	В	VA	BKR	POI	CONDUCTORS AND	CIRCOIT DESCRIPTION	CIRCUIT
1	RCPT: COMPUTER RM	2#12, 1#12G IN 3/4"C	1	20	1200	2100		900	20	1	2#12, 1#12G IN 3/4"C	RCPT: COMPUTER RM	2
3	ELECTRIC HEATER EH-1	2#12, 1#12G IN 3/4"C	1	20	1500		1600	100	20	2	2#12, 1#12G IN 3/4"C	DS-1, DS-2, DS-3, DS-4	4
5	EXHAUST FAN EF-1	2#12, 1#12G IN 3/4"C	1	20	80	180		100	20	2	2#12, 1#120 IN 3/4 C	03-1, 03-2, 03-3, 03-4	6
7	EXHAUST FAN EH-2	2#12, 1#12G IN 3/4"C	1	20	1500		1580	80	20	1	2#12, 1#12G IN 3/4"C	EXHAUST FAN EF-2	8
9	ELECTRIC HEATER EH-3	2#12, 1#12G IN 3/4"C	1	20	1500	1580		80	20	1	2#12, 1#12G IN 3/4"C	EXHAUST FAN EF-3	10
11	CONDENSATE PMP RM 102,103	2#12, 1#12G IN 3/4"C	1	20	168		708	540	20	1	2#12, 1#12G IN 3/4"C	RCPT: STOR AND EAST CORR	12
13	CONDENSATE PMP RM 100,105	2#12, 1#12G IN 3/4"C	1	20	168	528		360	20	1	2#12, 1#12G IN 3/4"C	RCPT: RESTROOMS	14
15	RCPT: EAST BASEMENT	2#12, 1#12G IN 3/4"C	1	20	360		4860	4500	30	2	2#10, 1#10G IN 3/4"C	ELECTRICAL WATER HEATER	16
17	MOTORIZED DAMPER	2#12, 1#12G IN 3/4"C	1	20	100	4600		4500	30	2	2#10, 1#100 IN 3/4 C	EWH-1	18
19	RCPT: COMPUTER RM	2#12, 1#12G IN 3/4"C	1	20	720		1080	360	20	1	2#12, 1#12G IN 3/4"C	RCPT: COMPUTER RM	20
21	SPARE	-	1	20	0	0		0	20	1	2#12, 1#12G IN 1"C	SPRAYGROUND CONTROLS	22
23	SPARE	-	1	20	0		0	0	20	1	-	SPARE	24
25	SPARE	-	1	20	0	0		0	20	1	-	SPARE	26
27	SPARE	-	1	20	0		0	0	20	1	-	SPARE	28
29	SPARE	-	1	20	0	0		0	20	1	-	SPARE	30
31	SPARE	-	1	20	0		0	0	20	1	-	SPARE	32
33	SPARE	-	1	20	0	0		0	20	1	-	SPARE	34
35	SPARE	-	1	20	0		0	0	20	1	-	SPARE	36
37	SPARE	-	1	20	0	0		0	20	1	-	SPARE	38
39	SPARE	-	1	20	0		0	0	20	1	-	SPARE	40
41	SPARE	-	1	20	0	0		0	20	1	-	SPARE	42
	NOTES:					тот	ALS						
						8988	9828						
			1881	6 VA					78.40 AMPS				

	(N) PANEL SCHEDULE 'K'														
	PANEL: K FED FROM: MDP INTERRUPTING RATING: 22 KAIC MOUNTING: SURFACE														
	VOLTAGE: 240/120V	PHASE:		1		W	IRE: 3	BUS AN	IPS:	100	4	MAIN: 100 MLO			
	NEMA 1	NEUTRAL:	10	0%		COPF	PER GND	BUS			LOCATION: STORAGE RM 108				
CIRCUIT	CIRCUIT DESCRIPTION	BRANCH CIRCUIT CONDUCTORS AND CONDUIT	POLES	BKR SIZE	VA	VA / P A	HASE B	VA	BKR SIZE	POLES	BRANCH CIRCUIT CONDUCTORS AND CONDUIT	CIRCUIT DESCRIPTION	CIRCUIT		
1	RCPT: KITCHEN	2#12, 1#12G IN 3/4"C	1	20	360	720		360	20	1	2#12, 1#12G IN 3/4"C	RCPT: KITCHEN	2		
3	MOTORIZED DAMPER	2#12, 1#12G IN 3/4"C	1	20	100		268	168	20	1	2#12, 1#12G IN 3/4"C	CONDENSATE PMP RM 107,108	3 4		
5	SPARE	-	1	20	0	0		0	20	1	-	SPARE	6		
7	SPARE	-	1	20	0		0	0	20	1	-	SPARE	8		
9	SPARE	-	1	20	0	0		0	20	1	-	SPARE	10		
11	SPARE	-	1	20	0		0	0	20	1	-	SPARE	12		
13	SPARE	-	1	20	0	0		0	20	1	-	SPARE	14		
15	SPARE	-	1	20	0		0	0	20	1	-	SPARE	16		
17	SPARE	-	1	20	0	0		0	20	1	-	SPARE	18		
19	SPARE	-	1	20	0		0	0	20	1	-	SPARE	20		
21	SPARE	-	1	20	0	0		0	20	1	-	SPARE	22		
23	SPARE	-	1	20	0		0	0	20	1	-	SPARE	24		
25	SPARE	-	1	20	0	0		0	20	1	-	SPARE	26		
27	SPARE	-	1	20	0		0	0	20	1	-	SPARE	28		
29	SPARE	-	1	20	0	0		0	20	1	-	SPARE	30		
31	SPARE	-	1	20	0		0	0	20	1	-	SPARE	32		
33	SPARE	-	1	20	0	0		0	20	1	-	SPARE	34		
35	SPARE	-	1	20	0		0	0	20	1	-	SPARE	36		
37	SPARE	-	1	20	0	0		0	20	1	-	SPARE	38		
39	SPARE	-	1	20	0		0	0	20	1	-	SPARE	40		
41	SPARE	-	1	20	0	0		0	20	1	-	SPARE	42		
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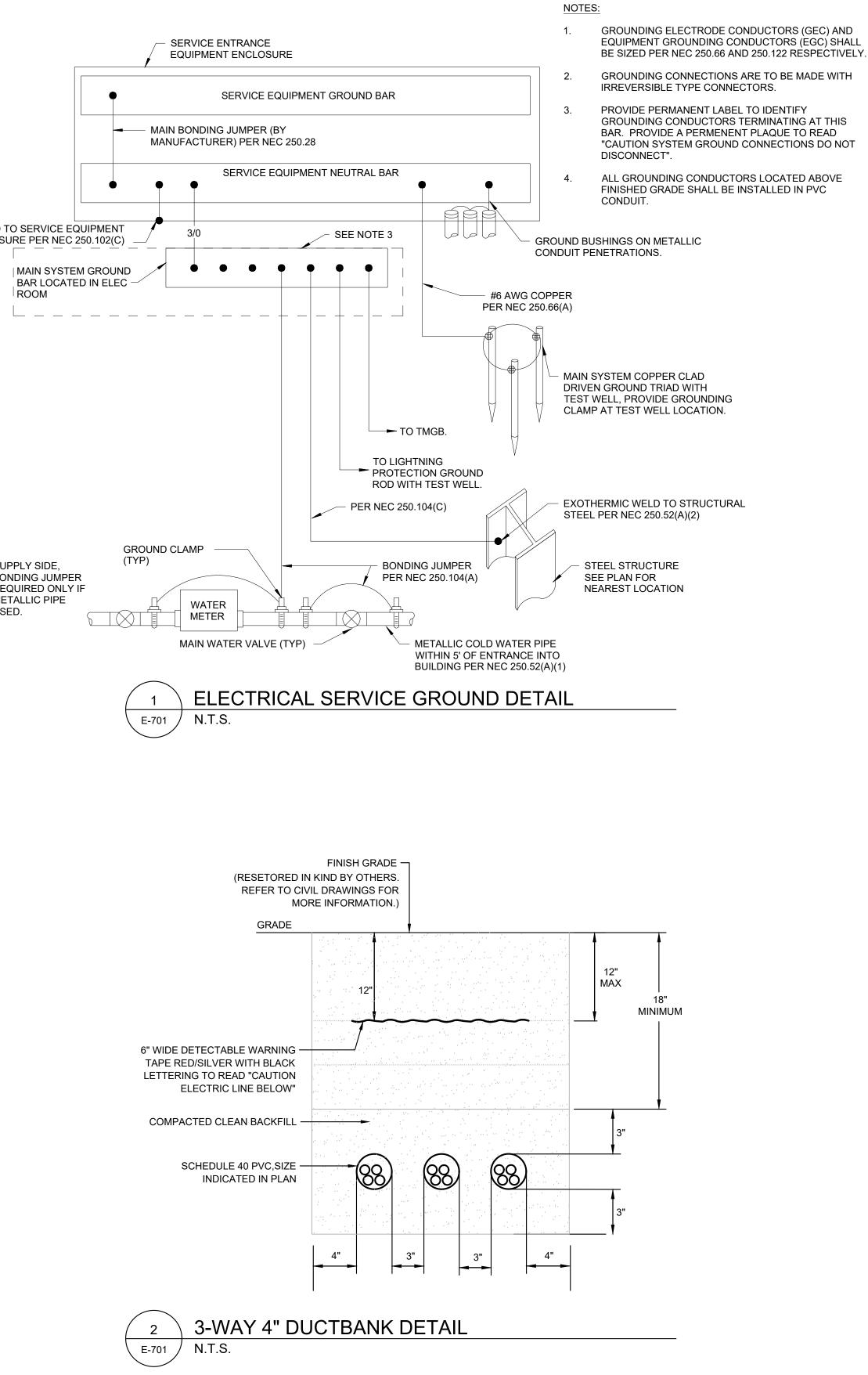
REVISIONS

## BOND TO SERVICE EQUIPMENT ENCLOSURE PER NEC 250.102(C)



SUPPLY SIDE, BONDING JUMPER REQUIRED ONLY IF METALLIC PIPE USED.





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- 1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.
- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS AND LAWS OF AUTHORITIES 2 HAVING JURISDICTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER 3. AT ONCE OF ANY DISCREPANCIES.
- ALL PENETRATION THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND 4. FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE AND SMOKE STOPPING MATERIAL. ALL FIRE AND SMOKE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAIL AS PER SPECIFICATIONS FOR FIRE AND SMOKE STOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR INSTALLATION.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT 5. AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA, CONFINES OF THE WORK AREA, OR AS DESIGNATED BY THE OWNER.
- 6. ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS (WITH AS-BUILT 7 INFORMATION) SHALL BE KEPT AT THE JOB SITE AT ALL TIMES BY THE CONTRACTOR
- EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES FOR 8. A THOROUGH UNDERSTANDING OF PROJECT AND ANY CROSS REFERENCING OF WORK, REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. IN CASE OF DISCREPANCIES, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF 9. ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS, IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF THE WORK OF THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO OWNER.
- 10. IN ADDITION TO SPECIFICATIONS, AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST ANY DAMAGE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING, ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD 11. DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWINGS MADE IN THE INSTALLATION, AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT.
- PRIOR TO DELIVERY OF ANY MATERIALS TO THE SITE, THE CONTRACTOR SHALL 12. PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THIS WORK.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL CAPACITIES AND 13. LOCATIONS OF EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO DETERMINE ACTUAL PHYSICAL SIZE, CAPACITIES, AND LOCATIONS OF EXISTING EQUIPMENT TO BE REMOVED.
- CONTRACTOR SHALL COORDINATE ALL REQUIRED EQUIPMENT AND SYSTEMS 14. SHUTDOWN WITH OWNER, AND PROVIDE OWNER TWO WEEKS NOTICE OF THE SAME.
- 15. COORDINATE DEMOLITION WORK WITH ALL OTHER TRADES. PHASE WORK IN CONJUNCTION WITH OTHER TRADE PHASING AND PHASING DRAWINGS.
- CONTRACTOR SHALL FIELD VERIFY OTHER EQUIPMENT/UTILITIES NOT ASSOCIATED 16. WITH THIS WORK BUT LYING WITHIN THE WORK AREA, AND WILL NOT DISTURB THOSE EQUIPMENT/UTILITIES. THOSE EQUIPMENT/UTILITIES SHALL BE PROTECTED SO THAT THE SERVICE IS NOT INTERRUPTED. CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO THE EQUIPMENT/UTILITIES IN PERFORMANCE OF THE WORK.
- CONTRACTOR SHALL KEEP WORK AREA CLEAN, ORDERLY, AND WORKMAN LIKE, AND 17. REMOVE ALL DEMOLISHED TRASH/ RUBBLE/CONSTRUCTION DEBRIS ON A DAILY BASIS FROM THE WORK AREA AND OFF OWNERS PROPERTY. ALL TRASH/RUBBLE/CONSTRUCTION DEBRIS DEEMED AS HAZARDOUS WASTE/MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH EPA OR ANY OTHER PERTINENT GOVERNING AGENCY AND DISPOSED OF ACCORDINGLY AT AN APPROVED HAZARDOUS WASTE DUMPSITE WITH ALL OF THE APPROVED/REQUIRED DOCUMENTATION.
- ALL EXISTING ABANDONED PIPING OR PIPING MADE ABANDONED BY THE WORK OF 18. THIS PROJECT SHALL BE REMOVED FROM WITHIN THE PROJECT BOUNDARIES. CUT AND CAP PIPING BACK TO A POINT 6" BEYOND (OUTSIDE OF) THE PROJECT BOUNDARIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE CUTTING AND PATCHING OF ALL CEILINGS, FLOORS, AND WALLS AS REQUIRED.
- PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, 19. BALANCED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR HIS OR HER DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- JUNCTION BOXES OR ANY EQUIPMENT REQUIRING CEILING ACCESS SHALL ONLY BE 20. PERMITTED/LOCATED IN ACCESSIBLE TYPE CEILING AREAS (I.E. LAY-IN TYPE CEILING) OR WHERE ACCESS PANELS HAVE BEEN LOCATED. REFER TO ARCHITECTURAL DRAWINGS.
- COORDIANTE WITH GENERAL CONTRACTOR FOR ITEMS SUCH AS ONE-CALL 21. NOTIFICATIONS.

### PLUMBING GENERAL NOTES:

- CONTRACTOR SHALL FURNISH ALL FOR THE COMPLETION AND OPERAT IN ACCORDANCE WITH ALL STATE A
- CONTRACTOR SHALL FURNISH AND 2 FIXTURES AND/OR EQUIPMENT REQ AND COORDINATE PIPING LOCATION SPECIFICATIONS TO AVOID CONFLIC
- CONTRACTORS SHALL SECURE AND 3. CERTIFICATES, ETC. REQUIRED UND
- CONTRACTOR SHALL FIELD VERIFY 4. PRIOR TO CONSTRUCTION AND NOT DISCREPANCIES BETWEEN THE PLA POTENTIAL PROBLEMS OBSERVED I
- DO NOT SCALE THE PLANS. SEE ARC 5 DOORS, WINDOWS, FIXTURES, WALL
- 6 CONTRACTOR SHALL GIVE SUITABLE COMPANIES AND OWNER PRIOR TO
- ALL EQUIPMENT SHALL BE HANDLED 7. DAMAGE BEFORE AND DURING INST MANUFACTURER'S INSTRUCTIONS.
- ALL EQUIPMENT, ETC, SHALL BE SO 8. ACCESSIBLE LOCATION SO AS TO PI TO BUILDING OR FINISHED MATERIA APPLICABLE CODES.
- CONTRACTOR SHALL SUPPLY ACCE 9. VALVE, PIECE OF EQUIPMENT, ETC. THE GC FOR INSTALLATION.
- 10. ALL MATERIAL SHALL BE NEW AND F AT SITE.
- 11. ALL PIPING, APPARATUS, EQUIPMEN BRACED VERTICALLY AND HORIZON CODES AND AS REQUIRED TO PREV CONDITIONS.
- 12. VALVES AND FITTINGS SHALL BE OF THEY ARE INSTALLED, UNLESS OTH
- 13. STERILIZE DOMESTIC WATER PIPINO REGULATIONS.
- ALL SANITARY PIPING SHALL BE PIT 14.
- WATER PIPING SHALL NOT BE RUN I 15. TEMPERATURES UNLESS OTHERWIS SHALL BE RUN ON THE SIDE OF THE CONDITIONED SPACE.
- 16. PROVIDE DRAIN VALVES AT ALL LOV COMPLETE DRAINAGE AND INDICAT
- 17. PROVIDE VACUUM BREAKERS AND V CODE.
- CONTRACTOR SHALL VERIFY AND C 18. CODES AND REGULATIONS AND VEF DISCREPANCIES BETWEEN TYPE AN EQUIPMENT SCHEDULES AND EQUIP
- 19. ALL PIPING SHALL BE ROUTED AS T WALLS, OR IN CHASES, EXCEPT FIN MECHANICAL ROOMS, UNLESS SPEC
- CONTRACTOR SHALL VERIFY EXACT 20. WHICH NEW PIPING IS TO BE CONNE
- 21. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT SHOWN ON PLANS, INCI ALTERNATIVE MANUFACTURER. COI DRAWINGS AS REQUIRED FOR INST. APPROVAL BY ENGINEER.
- 22. CONTRACTOR SHALL BECOME FAMI PROJECT AND COORDINATE WITH A
- 23. PROVIDE A SHUT OFF VALVE ON CO CONNECTION TO EACH PLUMBING I

### APPLICABLE CODES:

- 1. 2018 PHILADELPHIA PLUMBING CODE.
- 2018 INTERNATIONAL BUILDING CODE (IBC) 2.
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 3.

### **GENERAL DEMOLITION NOTES:**

- REQUIREMENTS.
- 2 PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- 3 OF EXISTING PLUMBING SYSTEMS.

L NOTES:
LABOR, MATERIALS, AND EQUIPMENT REQUIRED ATION OF ALL SYSTEMS IN THIS SECTION OF WORK AND LOCAL APPLICABLE CODES.
D INSTALL A COMPLETE PIPING SYSTEM TO ALL QUIRING SUCH. VERIFY ALL ROUGH-IN LOCATIONS DNS WITH WORK UNDER OTHER DIVISIONS OF THE ICTS.
ID PAY FOR ALL PERMITS, INSPECTION IDER THE PROJECT SCOPE.
Y ALL EXISTING CONDITIONS AND DIMENSIONS DTIFY ENGINEER OF RECORD OF ANY ANS AND EXISTING CONDITIONS AND/OR PRIOR TO CONTINUING WORK.
RCHITECTURAL PLANS FOR EXACT LOCATION OF LL DIMENSIONS, ETC.
LE NOTICE TO ALL APPLICABLE UTILITY O PERFORMING WORK INVOLVING UTILITIES.
ED, STORED, AND PROTECTED TO PREVENT STALLATION IN ACCORDANCE WITH
O LOCATED AND INSTALLED IN A READILY PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE IALS, PER MANUFACTURER'S INSTRUCTION AND
ESS DOORS FOR ACCESS TO EACH CONCEALED C. ACCESS DOORS SHALL BE HANDED OVER TO
FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS
ENT, ETC. SHALL BE PROPERLY SUPPORTED, NTALLY IN ACCORDANCE WITH APPLICABLE VENT EXCESSIVE MOVEMENT DURING SEISMIC
OF THE SAME SIZE AS THE PIPING FOR WHICH HERWISE NOTED.
IG IN ACCORDANCE WITH HEALTH DEPARTMENT
TCHED IN ACCORDANCE WITH APPLICABLE CODE.
I IN AREAS SUBJECT TO FREEZING /ISE NOTED. WATER PIPING IN EXTERIOR WALLS IE WALL INSULATION THAT BORDERS THE
W POINTS OF DOMESTIC WATER SYSTEMS FOR TE LOCATION OF SAME ON RECORD DRAWINGS.
WATER HAMMER ARRESTORS AS REQUIRED BY
CORRECT SYSTEMS AS REQUIRED TO MEET ALL ERIFY AND CORRECT ANY AND ALL POSSIBLE IND SIZE OF CONNECTIONS SPECIFIED IN THE IPMENT ACTUALLY INSTALLED.
TO BE CONCEALED ABOVE CEILINGS, WITHIN NAL CONNECTIONS TO FIXTURES, OR IN ECIFICALLY NOTED OTHERWISE.
CT INVERT ELEVATIONS OF EXISTING PIPING TO NECTED BEFORE INSTALLATION OF NEW PIPING.
OR COORDINATING INSTALLATION OF ALL CLUDING COORDINATION OF ANY EQUIPMENT OF ONTRACTOR SHALL PROVIDE COMPOSITE TALLATION OF EQUIPMENT SHOWN ON PLAN FOR
AILIAR WITH ALL CONDITIONS AFFECTING THIS ALL OTHER DISCIPLINES.
OLD, HOT AND HOT WATER RETURN PIPING FIXTURE AND PIPE BRANCHING FROM THE MAIN.
<u>)</u> :

ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND

ITEMS SHOWN DASHED AND BOLD SHALL BE DISCONNECTED AND REMOVED BY THE

PRIOR TO THE DEMOLITION OF PLUMBING ITEMS, INCLUDING BUT NOT LIMITED TO PIPE, FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FIELD VERIFY LOCATION

### ABBREVIATIONS:

	DDREVIATIONS.
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AG	AIR GAP
AHJ	AUTHORITIES HAVING JURISDICTION
AP	ACCESS PANEL
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BFP	BACK FLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BLW	BELOW
	BOTTOM OF PIPE
	BRITISH THERMAL UNIT(S)
	CONDENSATE DRAIN
CI	CAST IRON
CL	CENTERLINE
CM	
CO	CLEANOUT CONTINUED
CONT CW	DOMESTIC COLD WATER
	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
	DOWN
	EXISTING
EC	ELECTIRCAL CONTRACTOR
EQUIP	EQUIPMENT
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
	FIXTURE UNITS
GB	
•	GALLONS
	GALLONS PER MINUTE GAS-FIRED HOT WATER HEATER
HB	
	HOT AND COLD WATER
	HORSEPOWER
HW	
HWR	HOT WATER RETURN
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCHES
INV EL	INVERT ELEVATION
IPC	INTERNATIONAL PLUMBING CODE
KW	KILOWATTS
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	INCH
IN WG	INCHES WATER GAGE
	INVERT ELEVATION
	JANITOR'S
	KILOWATTS
LAV M	LAVATORY METERS
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MOCP	
MR	MOP RECEPTOR
(NI)	

(N) NEW

NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN (FAIL SAFE OPEN)
	NON-POTABLE WATER
	NOT TO SCALE
OC	
0 -	PUMP
	PLUMBING CONTRACTOR
	POINT OF CONNECTION
	REMOVE
· · /	RUN ABOVE CEILING
RBF	RUN BELOW FLOOR
	ROOF DRAIN
RP	RECIRCULATION PUMP
	RAIN WATER LEADER
S	SANITARY STACK
SAN	SANITARY
SFU	SUPPLY FIXTURE UNITS
SK	SINK
SP	SUMP PUMP
SPECS	SPECIFICATIONS
STD	STANDARD
TDH	TOTAL DYNAMIC HEAD
TMV	THERMOSTATIC MIXING VALVE
TP	AUTOMATIC TRAP PRIMER
TSFU	TOTAL SUPPLY FIXTURE UNITS
TYP	TYPICAL
UF	UNDER FLOOR
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT
V/Ø/H Z	VOLTS/PHASE/HERTZ
VB	VACUUM BREAKER
VS	VENT STACK
W	WASTE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
	WATER HAMMER ARRESTOR

			PIPE SCHEDULE
SERVICE	SIZE	MATERIAL	JOINTS
DOMESTIC WATER	ALL	COPPER TYPE "L" HARD	PRESS CONNECT JOINTS
SANITARY/STORM	BELOW GRADE	SERVICE WEIGHT CAST IRON	LEAD AND OAKUM
SANITARY/STORM	ABOVE GRADE	SERVICE WEIGHT CAST IRON	ELECTROMETRIC SLEEVE WITH STAIN STEEL BANDS
VENT	2" LESS	DWV COPPER	PRESS CONNECT JOINTS
VENT	OVER 2"	SERVICE WEIGHT CAST IRON	ELECTROMETRIC SLEEVE WITH STAIN STEEL BANDS
SRAYGROUND EQUIPMENT PIPING	ALL	SCHEDULE 80 PVC	SOLVENT

### PLUMBING SYMBOLS:

BFP	BACK FLOW PREVENTOR
$\neg \neg \neg \neg$	BALANCING VALVE WITH TEST PORTS
<del></del>	BOTTOM CONNECTION
]	CAPPED PIPE
	CHECK VALVE
	CLEAN OUT
	DIRECTION OF FLOW
—II—	FLANGED CONNECTION
	FLOW METER
$\bigcirc$	FLOOR DRAIN
$\oplus$	FLOOR CLEAN OUT
<u> </u>	MANUAL AIR VENT
—o	PIPE TURNING UP
<del>`</del>	PIPE TURNING DOWN
<u> </u>	PITCH
⊣∳⊢	BALL VALVE
	UNION
	TOP CONNECTION
<u> </u>	VACUUM BREAKER
— <u> </u>	WALL CLEANOUT
<b>_</b>	GAS SHUT-OFF VALVE

### GENERAL SYMBOLS:

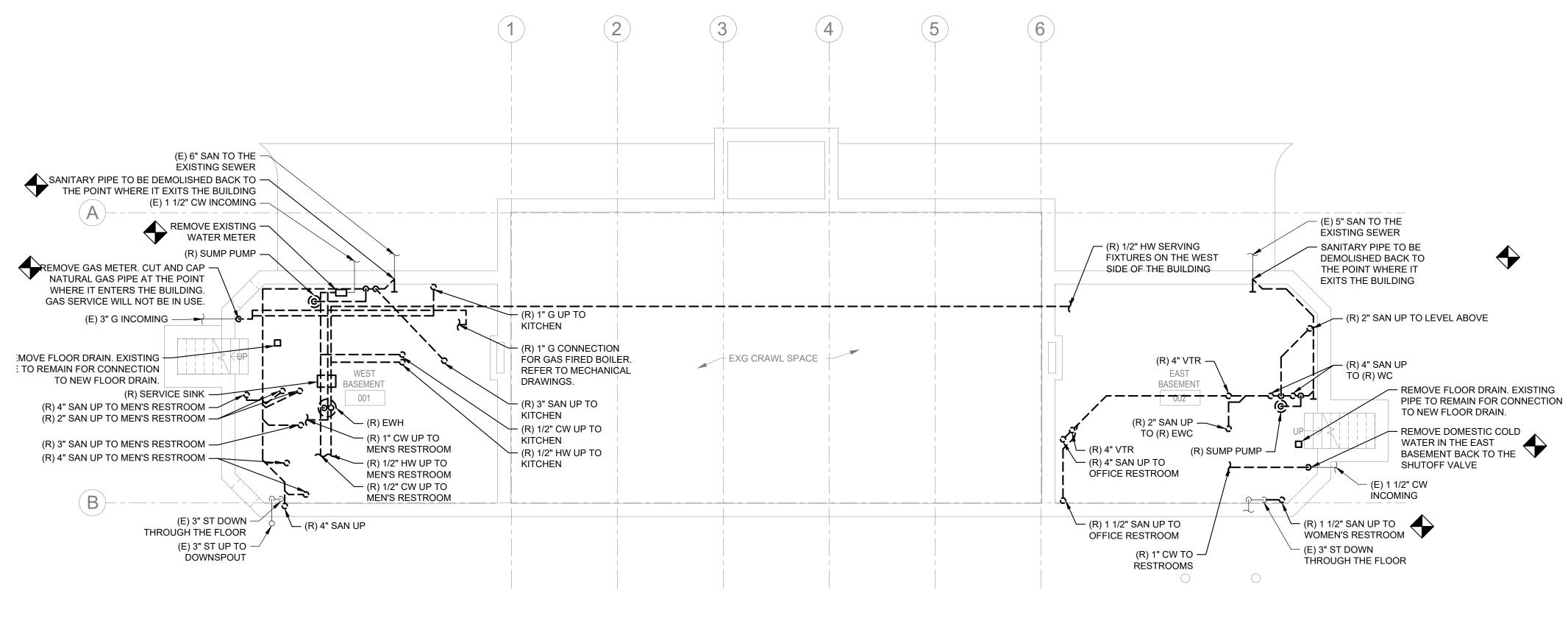
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XXX     DWG #     SECTION TAG       X     EQUIP TYPE       EQUIP #     EQUIPMENT TAG       POINT OF CONNECTION		DETAIL TAG
EQUIPMENT TAG		SECTION TAG
	$  \longleftrightarrow $	E EQUIPMENT TAG
	$\bullet$	POINT OF CONNECTION
	$\blacksquare \qquad \clubsuit$	POINT OF DISCONNECTION

### **PIPING LEGEND:**

- ——— DOMESTIC COLD WATER —————— DOMESTIC HOT WATER
- – – DOMESTIC HOT WATER RETURN ------ SANITARY
- — — VENT
- ---- DEMOLITION (REFER TO TAG FOR PIPE TYPE)

REMARKS IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE SECTION 605 MATERIALS JOINTS AND CONNECTIONS IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE, SECTION 702, MATERIALS AINLESS IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE, SECTION 702 MATERIALS IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE, SECTION 702 MATERIALS AINLESS IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE, SECTION 702 MATERIALS PVC SHALL BE USED FROM THE SPRAYGROUND MANIFOLD TO THE SPRAY GROUND FEATURE. IN ACCORDANCE WITH PHILADELPHIA PLUMBING CODE, SECTION 605 MATERIALS, JOINTS AND CONNECTIONS

LEEANN SUEN         SMAX         SMAX         SMAX         SMP ARCHITECTS         SMP ARCHITECTS         1000 Walnut Street, 2nd Floor         Philadelphia, Pennsylvania 19103         215 985 4410         MADSCAPE ARCHITECT:         GROUND RECONSIDERED         WW. Segnice consister RED         2"STEUCTURAL ENGINEER:         XONTENTENTIAL ENGINEERING         STEUCTURAL ENGINEER:         ANN ACTIMANN STRUCTURAL ENGINEERING         ANT CONSULTANT:         STEUCTURAL ENGINEER:         ANN ACTIMANN STRUCTURAL ENGINEERING         ANT ACTIMANN STRUCTURAL ENGINEERING         ANT ACTIMAN STRUCTURAL ENGINEERING         ANT ACTIMATION STRUCTURAL ENGINEERING         ACTIVE OF PHILADELPHIA         DEDECTING         ACTIVE OF PARKS & RECREATION		ISSUE DATE REVISION	
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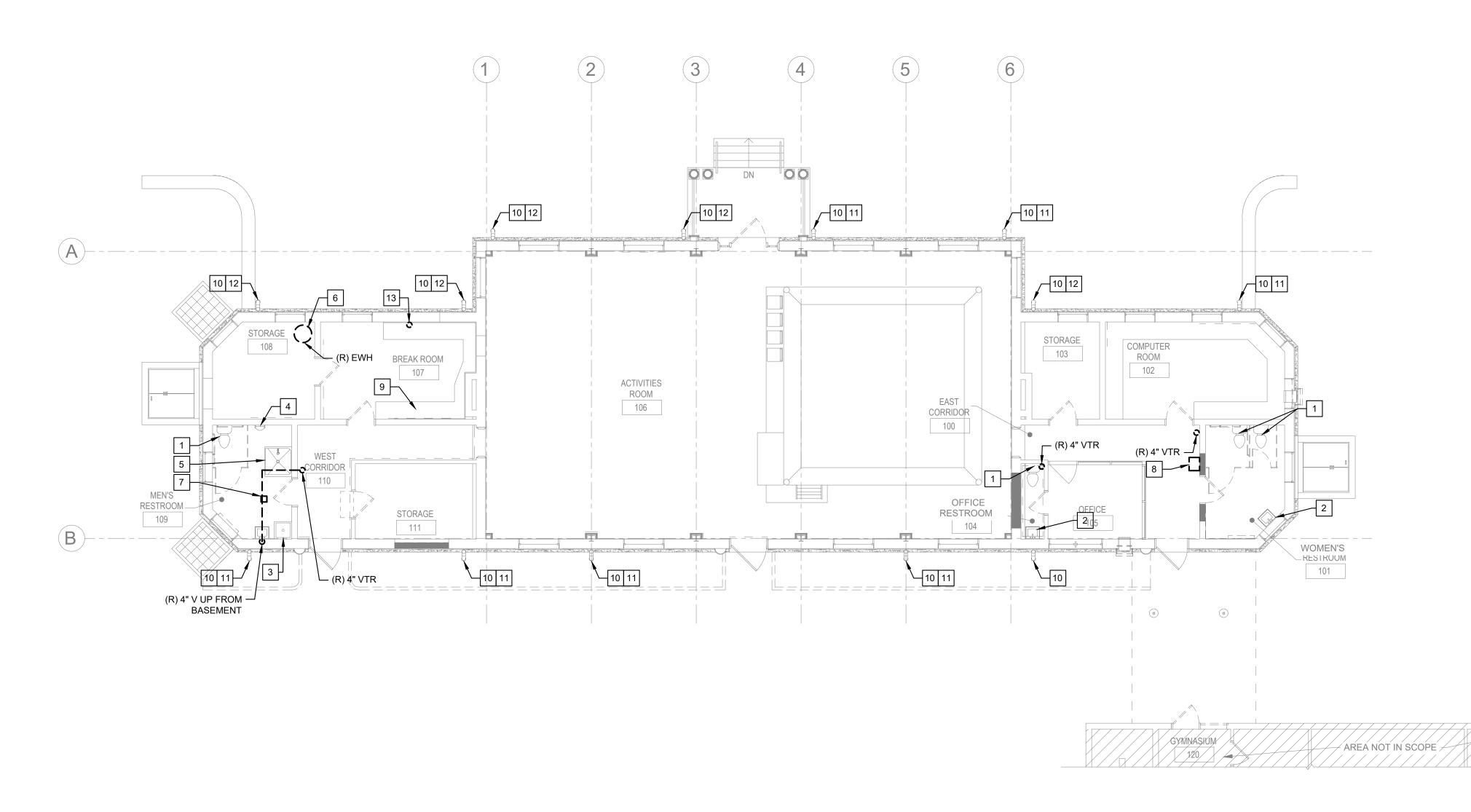
- 1. REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
- 3. REFER TO DRAWING P500 AND P501 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.
- 5. REMOVE ALL ABANDONED ELECTRIC WATER HEATERS.

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### **GENERAL NOTES:**

- 1. REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
- 3. REFER TO DRAWING P500 AND P501 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.

### KEYED NOTES ( ):

- 1. DISCONNECT AND REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY INCLUDING SANITARY PIPING, VENT PIPING, COLD WATER PIPING, FLUSH VALVES, TANK, CARRIER, SUPPORTS, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 2. DISCONNECT AND REMOVE EXISTING LAVATORY IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, HOT WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 3. DISCONNECT AND REMOVE EXISTING SERVICE SINK IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, HOT WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 4. DISCONNECT AND REMOVE EXISTING URINAL IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, HOT WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 5. DISCONNECT AND REMOVE EXISTING SHOWER IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, HOT WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 6. DISCONNECT AND REMOVE EXISTING DOMESTIC WATER HEATER IN ITS ENTIRETY INCLUDING SUPPORTS, COLD WATER PIPING, HOT WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 7. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN IN ITS ENTIRETY INCLUDING SANITARY PIPING AND VENT PIPING. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 8. DISCONNECT AND REMOVE EXISTING ELECTRIC WATER COOLER IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, AND ACCESSORIES. TEMPORARILY CAP PIPING TO FACILITATE FUTURE FIXTURES CONNECTIONS. REFER TO NEW WORK.
- 9. DISCONNECT AND REMOVE EXISTING INTEGRAL STAINLESS STEEL SINK IN ITS ENTIRETY INCLUDING SUPPORTS, FAUCET, SANITARY PIPING, VENT PIPING, COLD WATER PIPING, AND ACCESSORIES.
- 10. EXISTING 3" DOWNSPOUT TO REMAIN.
- 11. REMOVE DETERIORATED CAST IRON DOWNSPOUT BOOT FOR REPLACEMENT IN NEW WORK.
- 12. VERIFY IN FIELD THE CONDITION OF THE CAST IRON DOWNSPOUT BOOT. IF DETERIORATED, RUSTED, OR DAMAGED, REMOVE DOWNSPOUT BOOT FOR REPLACEMENT IN NEW WORK.
- 13. DEMOLISH GAS PIPING CONNECTED TO EXISTING KITCHEN STOVE. STOVE TO BE REMOVED.



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### CONSTRUCTION DOCUMENTS

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### SMP ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410

LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727

CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425

PROJECT COORDINATOR

SEALS

STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566

MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900

ROOFING CONSULTANT: STEPHEN MCLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424

CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 

1515 ARCH STREET

11TH FLOOR, ONE PARKWAY BUILDING

PENNSYLVANIA

PD-102

PHILADELPHIA PROJECT TITLE

DRAWING TITLE

SCALE

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### RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER

### PLUMBING DEMOLITION FIRST FLOOR PLAN

ROJECT NO.	
16315E-03-02	

05/13/2025

AS NOTED

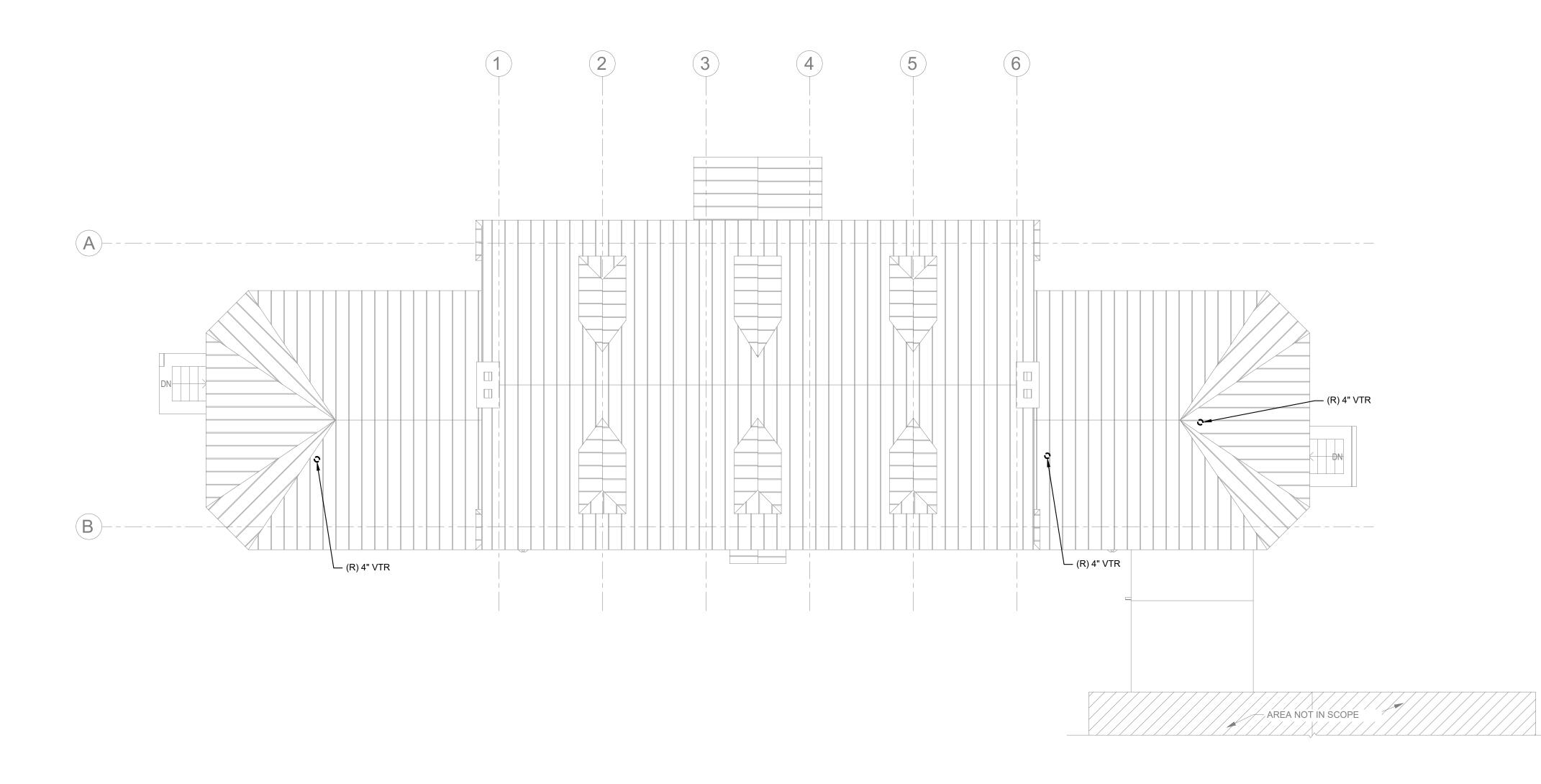
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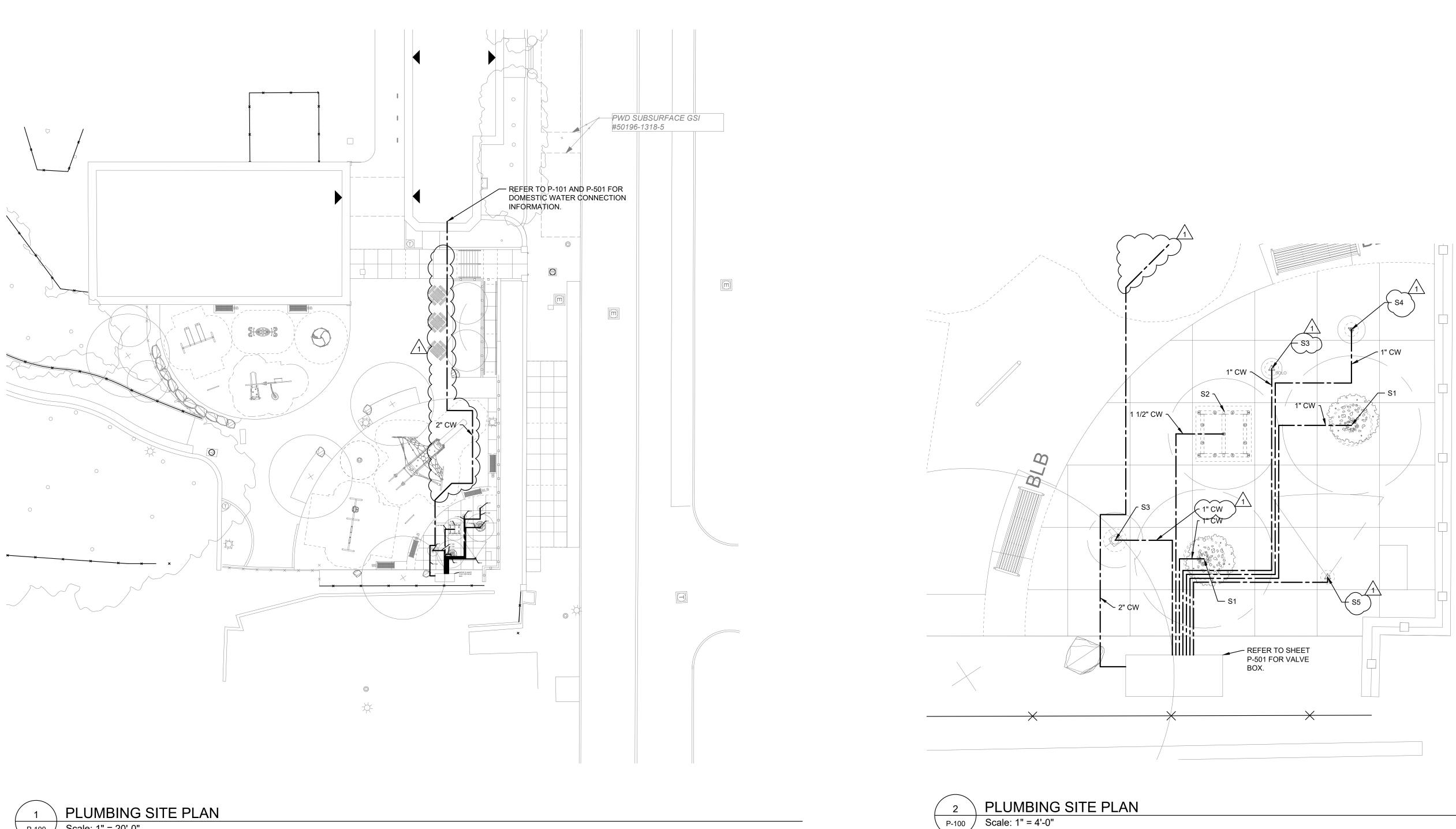


- REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
- 3. REFER TO DRAWING P500 AND P501 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.

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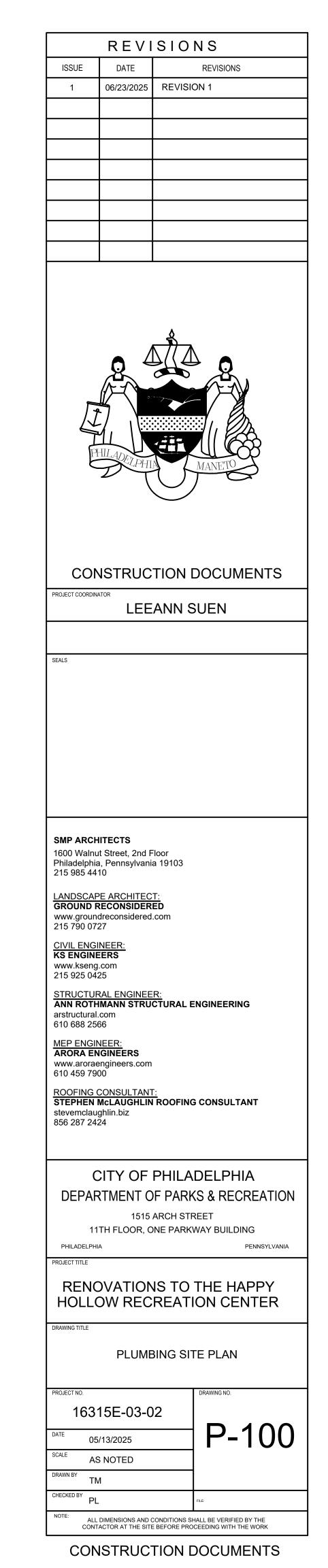
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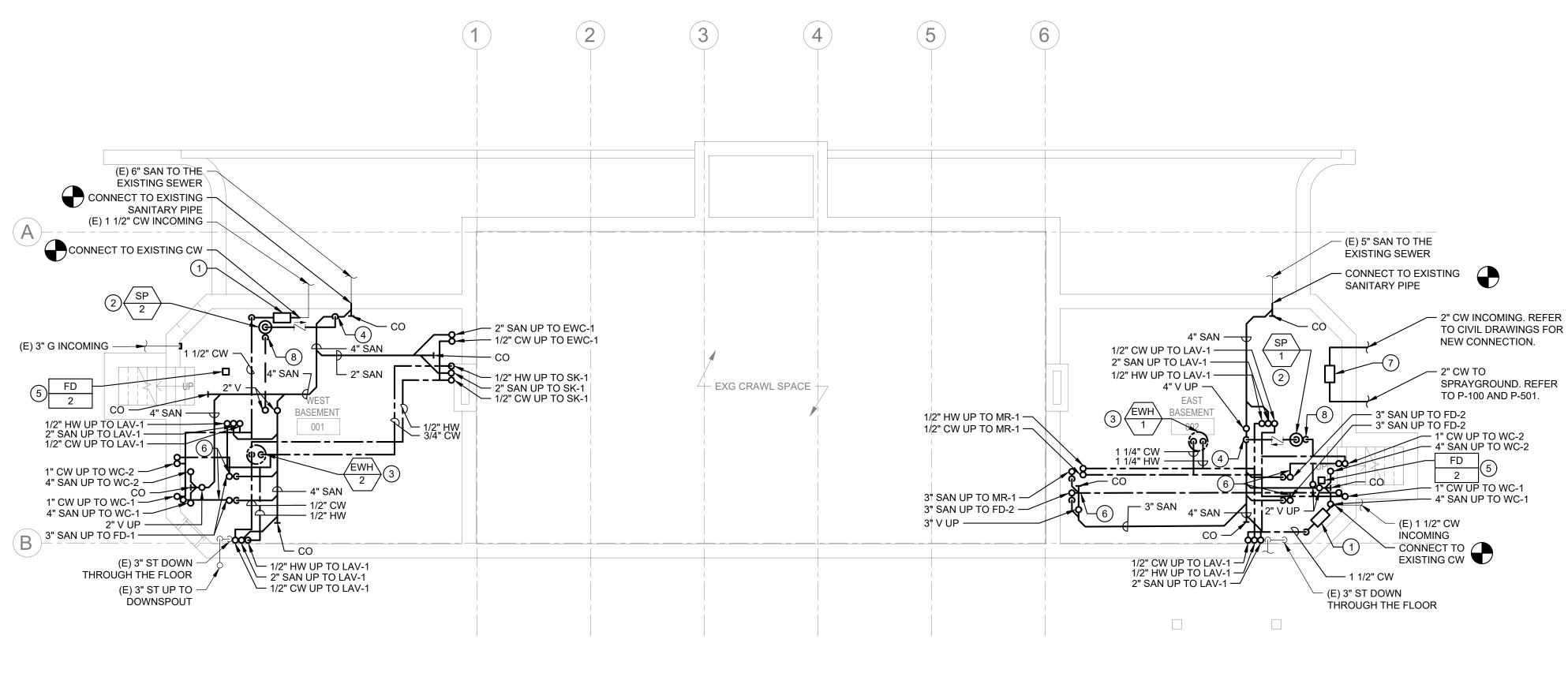
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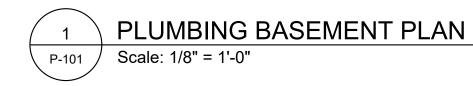




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- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
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- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.









- 1. REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, 1. PROVIDE NEW DOMESTIC WATER METER AND SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
- 3. REFER TO DRAWING P500 AND P501 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.

AREA NOT IN SCOPE

## KEYED NOTES (1):

- BACKFLOW PREVENTER, BFP-1.
- 2. PROVIDE NEW SUMP PUMP IN EXISTING SUMP PIT. REFER TO ELECTRICAL DRAWINGS FOR RECEPTACLE LOCATION.
- 3. PROVIDE NEW ELECTRIC WATER HEATER. REFER TO ELECTRICAL DRAWINGS FOR POWER.
- 4. PROVIDE INDIRECT WASTE RECEPTOR FOR SUMP PUMP DRAINAGE.
- 5. INSTALL NEW FD-2 IN THE SAME LOCATION AS THE BASEMENT FLOOR DRAIN THAT WAS REMOVED DURING DEMOLITION. CONNECT TO EXISTING SANITARY PIPE BELOW BASEMENT FLOOR. EXISTING SANITARY LINE SHALL BE CLEANED.
- 6. PROVIDE 1/2" CW TRAP PRIMER CONNECTION TO FLOOR DRAIN PIPING.
- 7. PROVIDE NEW DOMESTIC WATER METER AND BACKFLOW PREVENTER, BFP-2.
- 8. PROVIDE 2" VENT FROM SUMP PUMP PIT.

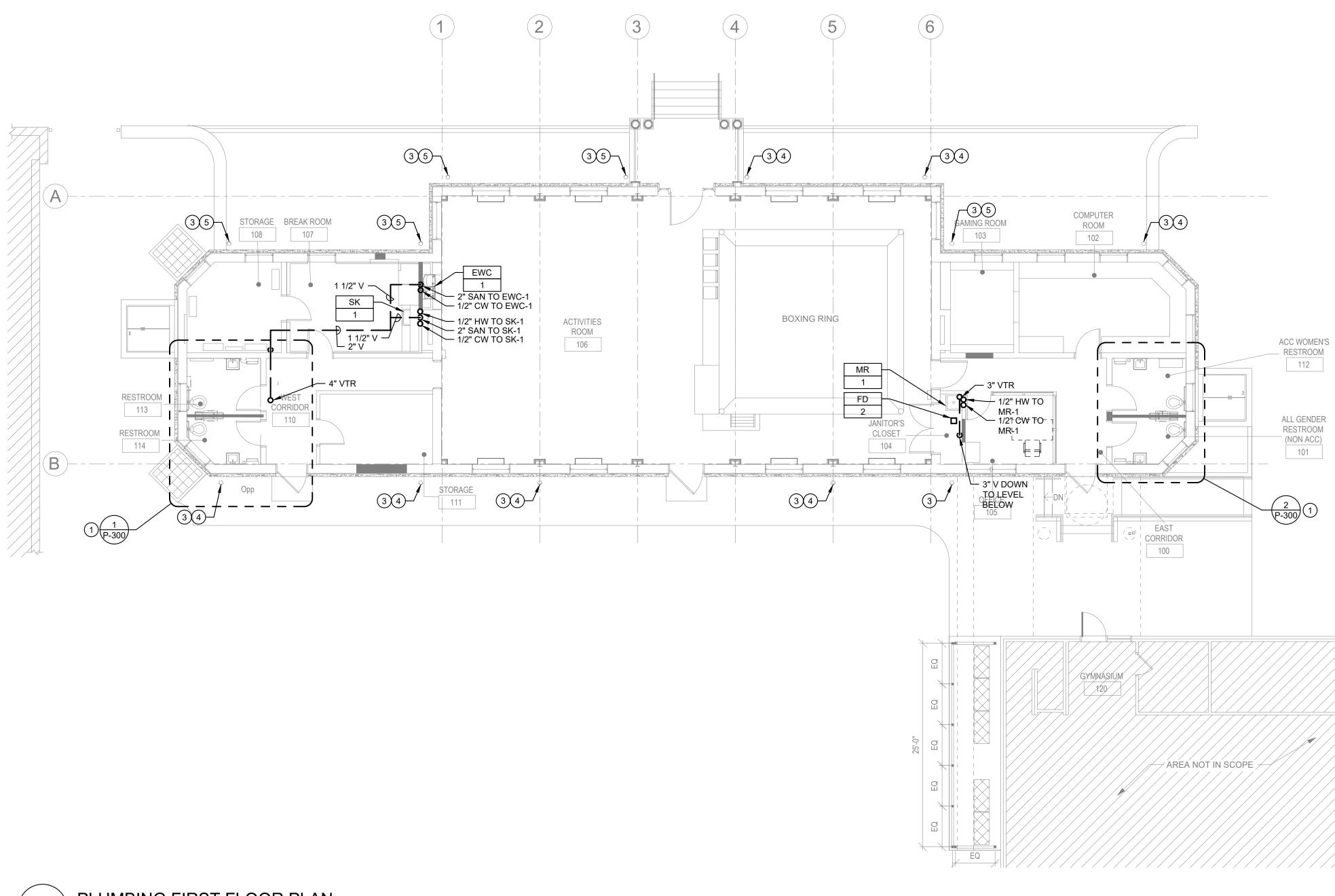
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PLUMBING BASEMENT PLAN

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- REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWING P400 FOR RISER DIAGRAMS
- 3. REFER TO DRAWING P500 AND P501 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.

## KEYED NOTES (1):

- 1. REFER TO ENLARGED PLANS FOR RESTROOM NEW WORK.
- 2. PROVIDE NEW SANITARY PIPING, COLD WATER PIPING, AND HOT WATER PIPING TO NEW PANTRY SINK.
- 3. EXISTING 3" DOWNSPOUT TO REMAIN.

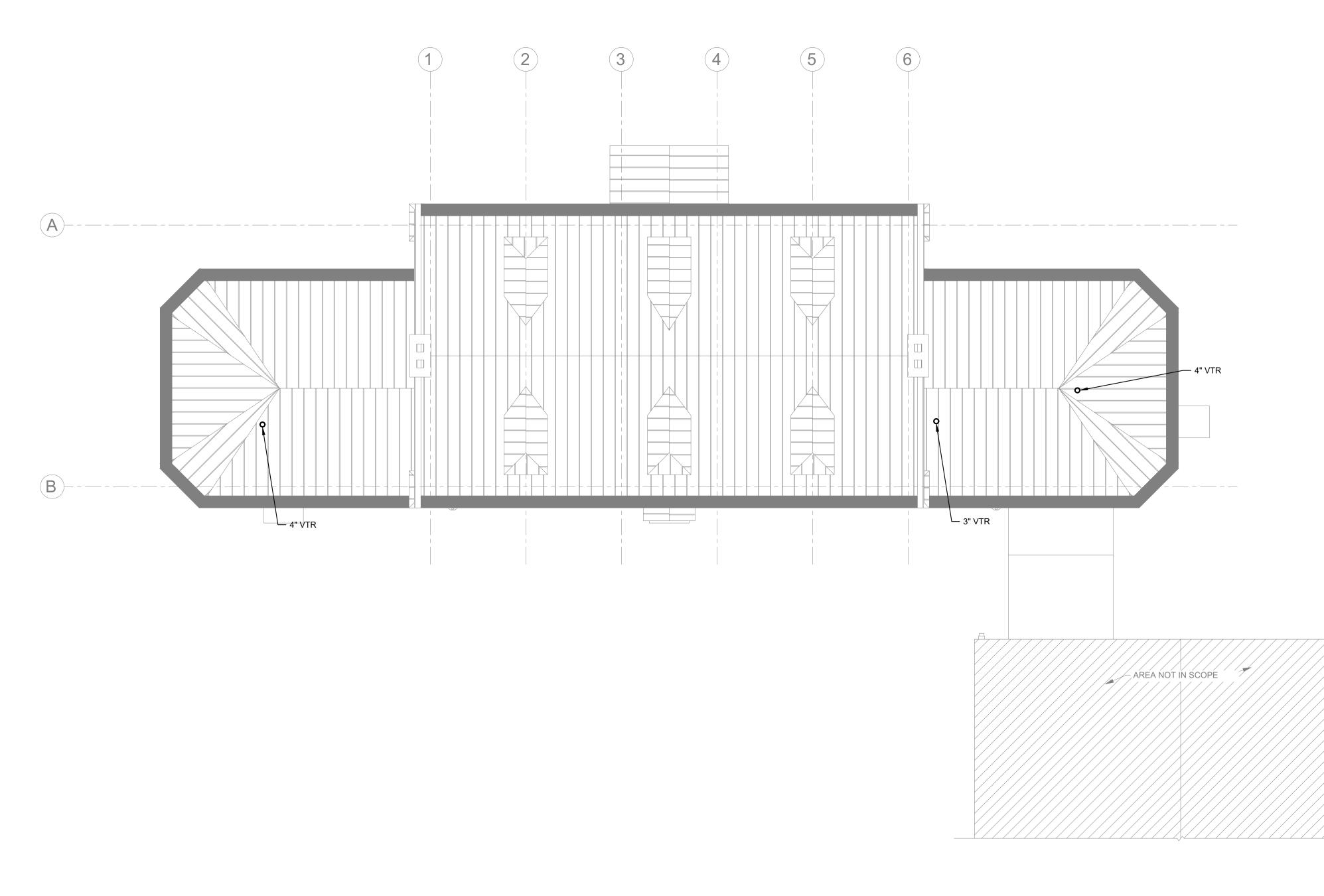
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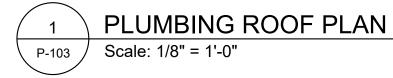
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- 4. PROVIDE NEW 3" CAST IRON DOWNSPOUT BOOT.
- 5. IF THE EXISTING 3" CAST IRON DOWNSPOUT BOOT WAS FOUND TO BE IN POOR CONDITION AND REMOVED AS PART OF THE DEMOLITION, PROVIDE NEW 3" CAST IRON DOWNSPOUT BOOT.

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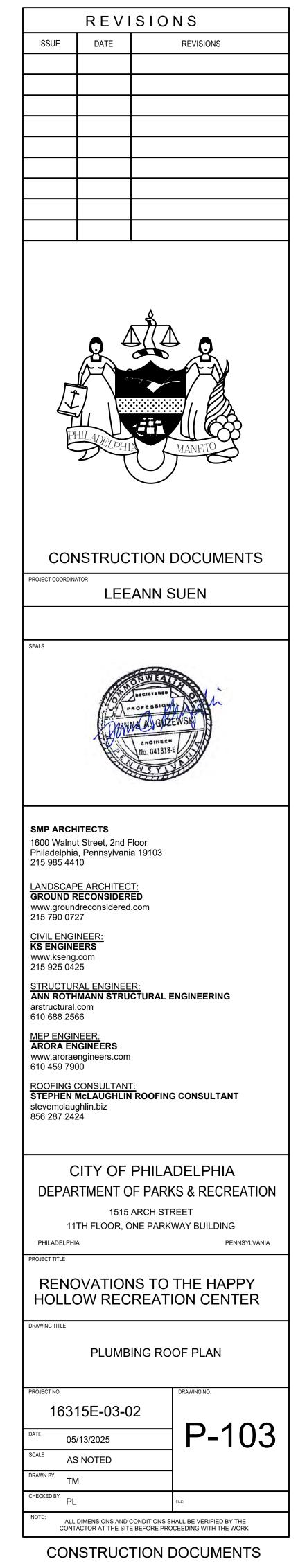




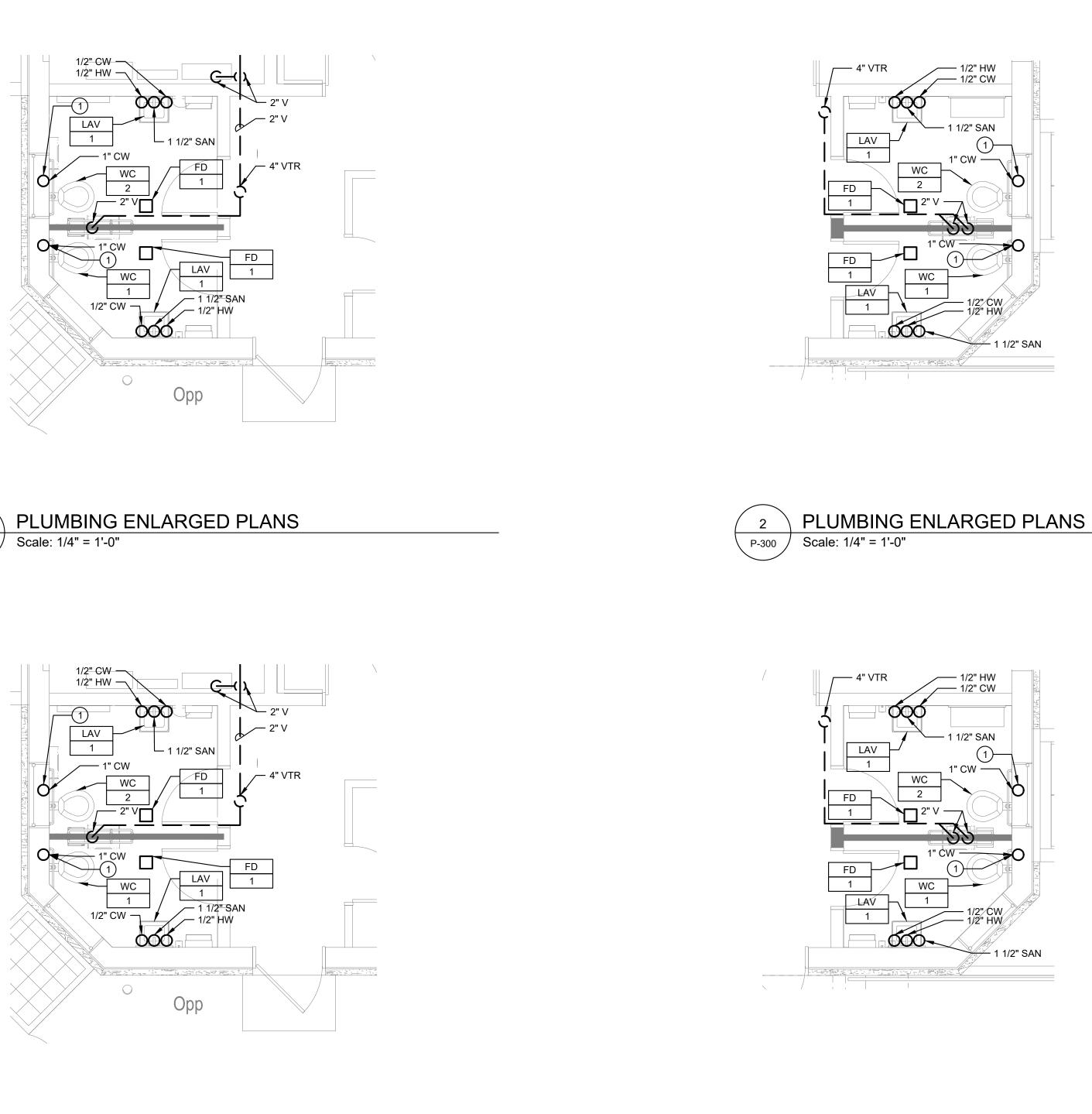
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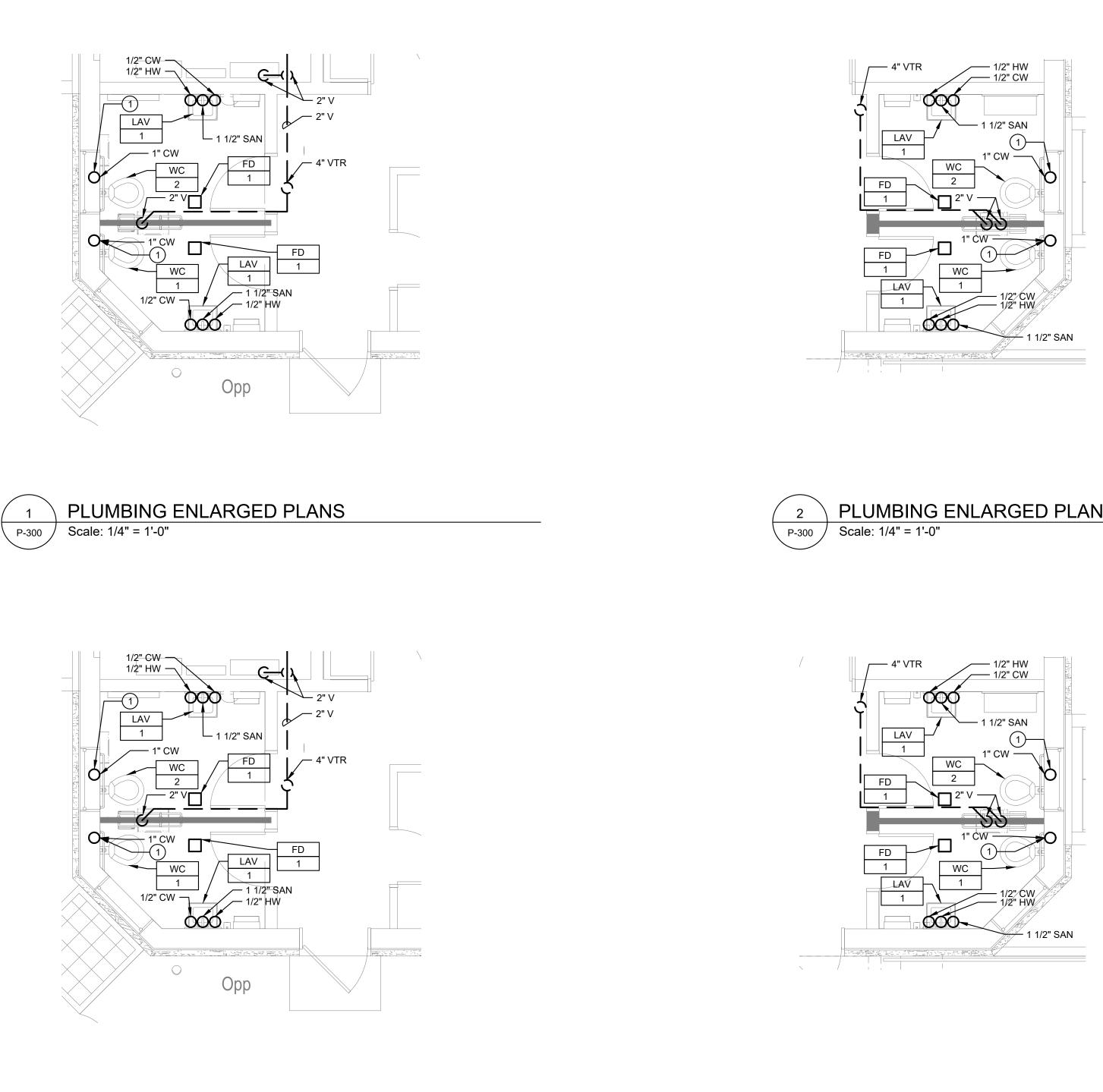
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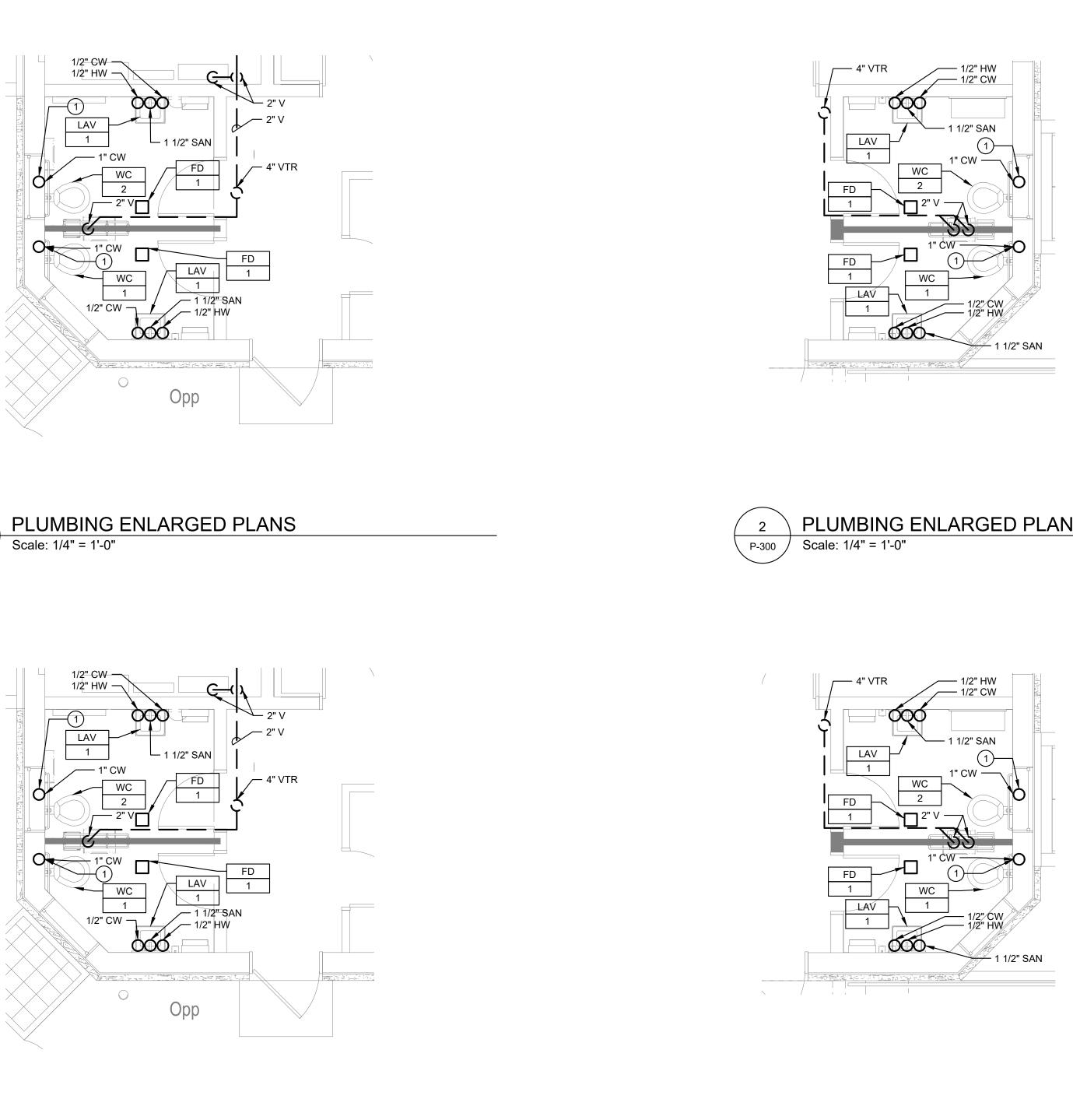
2. REFER TO DRAWING P400 FOR RISER DIAGRAMS



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1. REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

**KEYED NOTES:** 

PROVIDE CONNECTION TO TP-1. RUN TRAP PRIMER PIPING ON THE LEVEL BELOW TO FLOOR DRAINS.

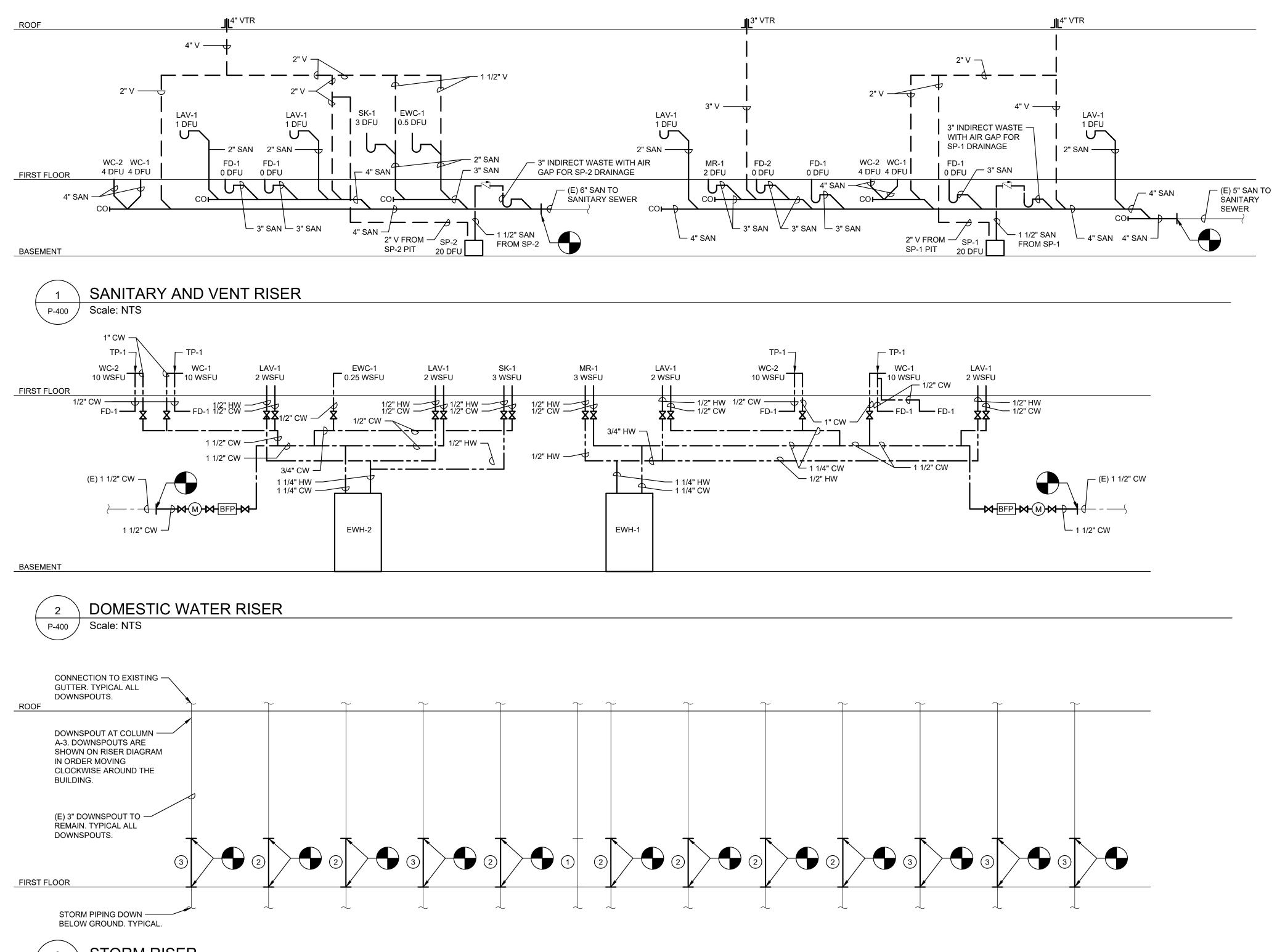
REVISIONS DATE ISSUE REVISIONS CONSTRUCTION DOCUMENTS PROJECT COORDINATOR LEEANN SUEN SMP ARCHITECTS 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410 LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727 CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425 STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566 MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900 ROOFING CONSULTANT: STEPHEN MCLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424 CITY OF PHILADELPHIA **DEPARTMENT OF PARKS & RECREATION** 1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PENNSYLVANIA PHILADELPHIA ROJECT TITLE RENOVATIONS TO THE HAPPY HOLLOW RECREATION CENTER DRAWING TITLE PLUMBING ENLARGED PLANS PROJECT NO. 16315E-03-02 P-300 05/13/2025 SCALE AS NOTED RAWN B ТМ CHECKED BY ' PL ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK

CONSTRUCTION DOCUMENTS

4 2 0

4

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



STORM RISER 3 Scale: NTS P-400 /

## **GENERAL NOTES:**

- DETAILS.
- 3. REFER TO DRAWING P600 FOR PLUMBING SCHEDULES.

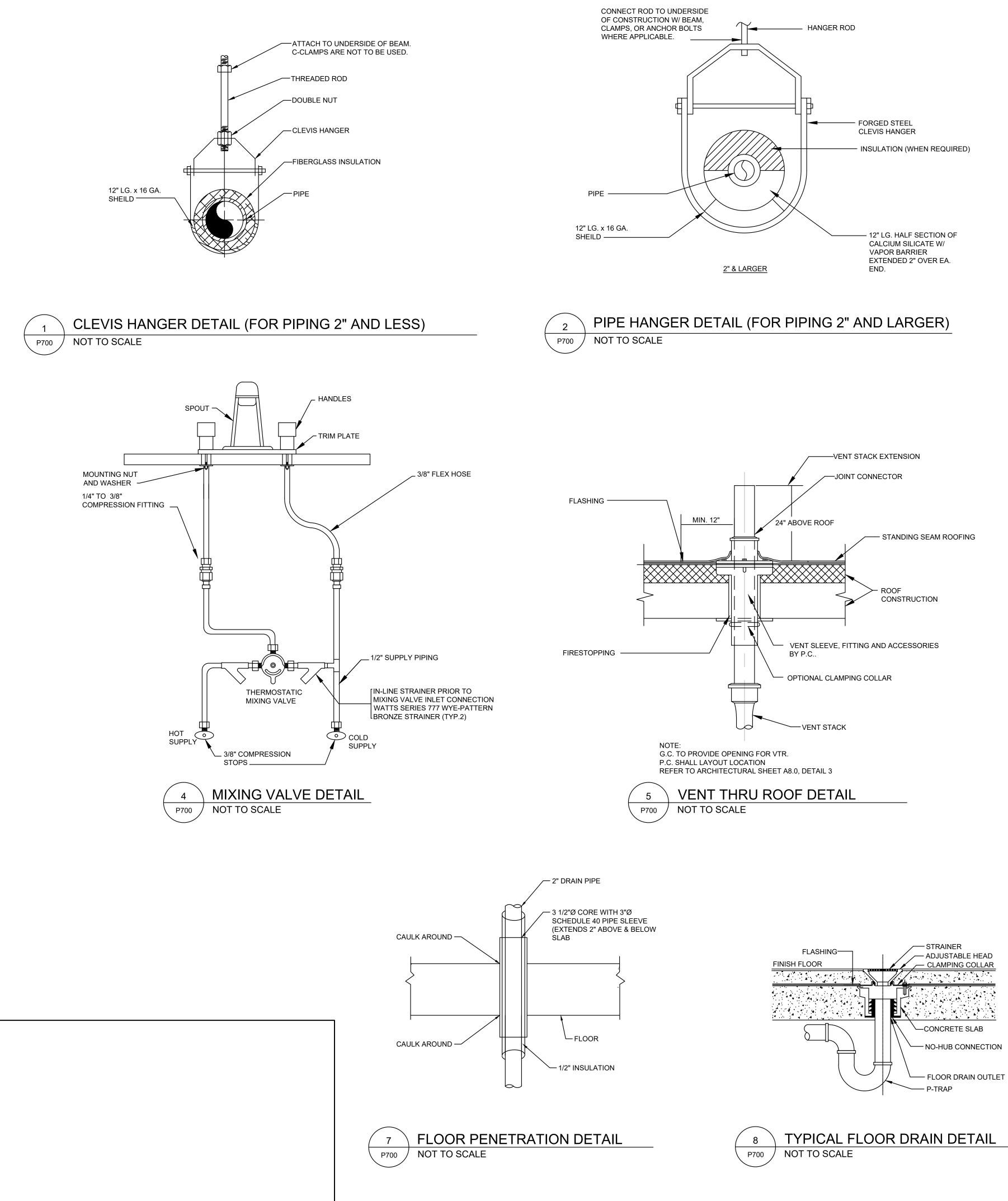
## 1. REFER TO DRAWING P000 FOR PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

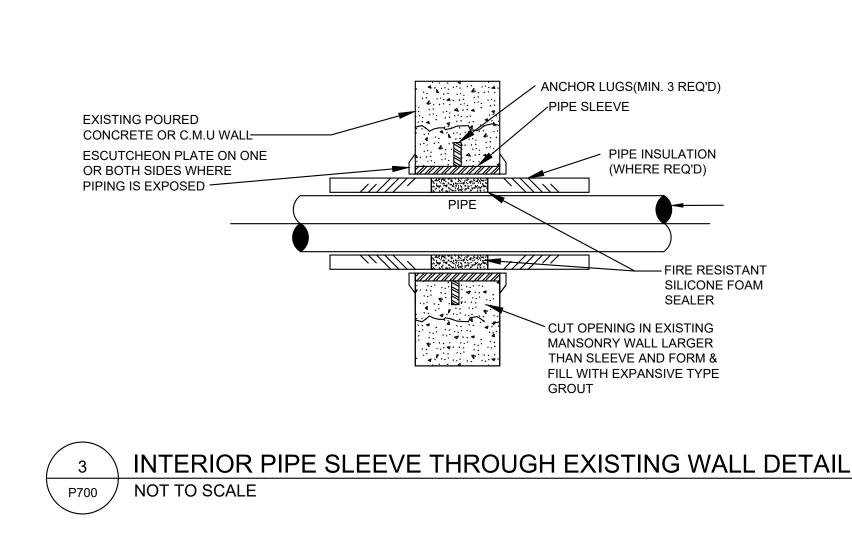
2. REFER TO DRAWING P500 AND P501 FOR PLUMBING

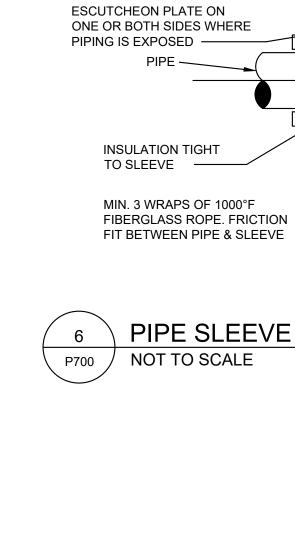
## KEYED NOTES (1):

- 1. EXISTING 3" CAST IRON DOWNSPOUT BOOT TO REMAIN.
- 2. PROVIDE NEW 3" CAST IRON DOWNSPOUT BOOT.
- 3. IF THE EXISTING 3" CAST IRON DOWNSPOUT BOOT WAS FOUND TO BE IN POOR CONDITION AND REMOVED AS PART OF THE DEMOLITION, PROVIDE NEW 3" CAST IRON DOWNSPOUT BOOT.

	REVI	<u> </u>	NS
ISSUE		510	REVISIONS
	TOR	$\bigcirc$	DOCUMENTS
Philadelphia	t Street, 2nd F , Pennsylvani		
<b>GROUND R</b>	E ARCHITEC ECONSIDER Ireconsidered	ED	
CIVIL ENGI KS ENGINE www.kseng.	NEER: ERS com		
	AL ENGINEE MANN STRU com		ENGINEERING
MEP ENGIN ARORA EN www.arorae 610 459 790	GINEERS ngineers.com		
ROOFING C STEPHEN M stevemclaug 856 287 242	ghlin.biz	<u>r:</u> I ROOFING	G CONSULTANT
			DELPHIA
			(S & RECREATION
	1515	ARCH STI	REET
11 <sup>-</sup> PHILADELPHI		NE PARK	WAY BUILDING PENNSYLVANIA
PROJECT TITLE	VATION		THE HAPPY
_			ION CENTER
	PLUMBING	6 RISER	
PROJECT NO.	15E-03-0	)2	DRAWING NO.
DATE			P-400
SCALE	13/2025		
CHECKED BY PL	-		FILE:
			HALL BE VERIFIED BY THE DCEEDING WITH THE WORK
50117			







WATER INLET

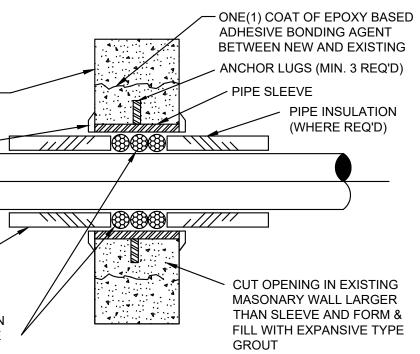
EXISTING POURED CONCRETE

OR C.M.U. WALL

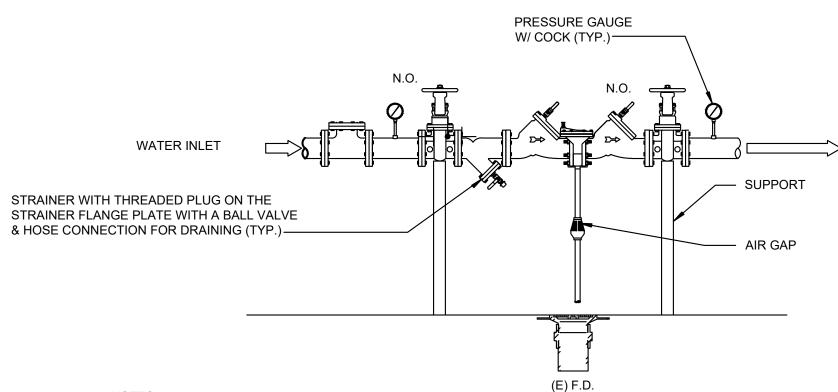




NOTES:



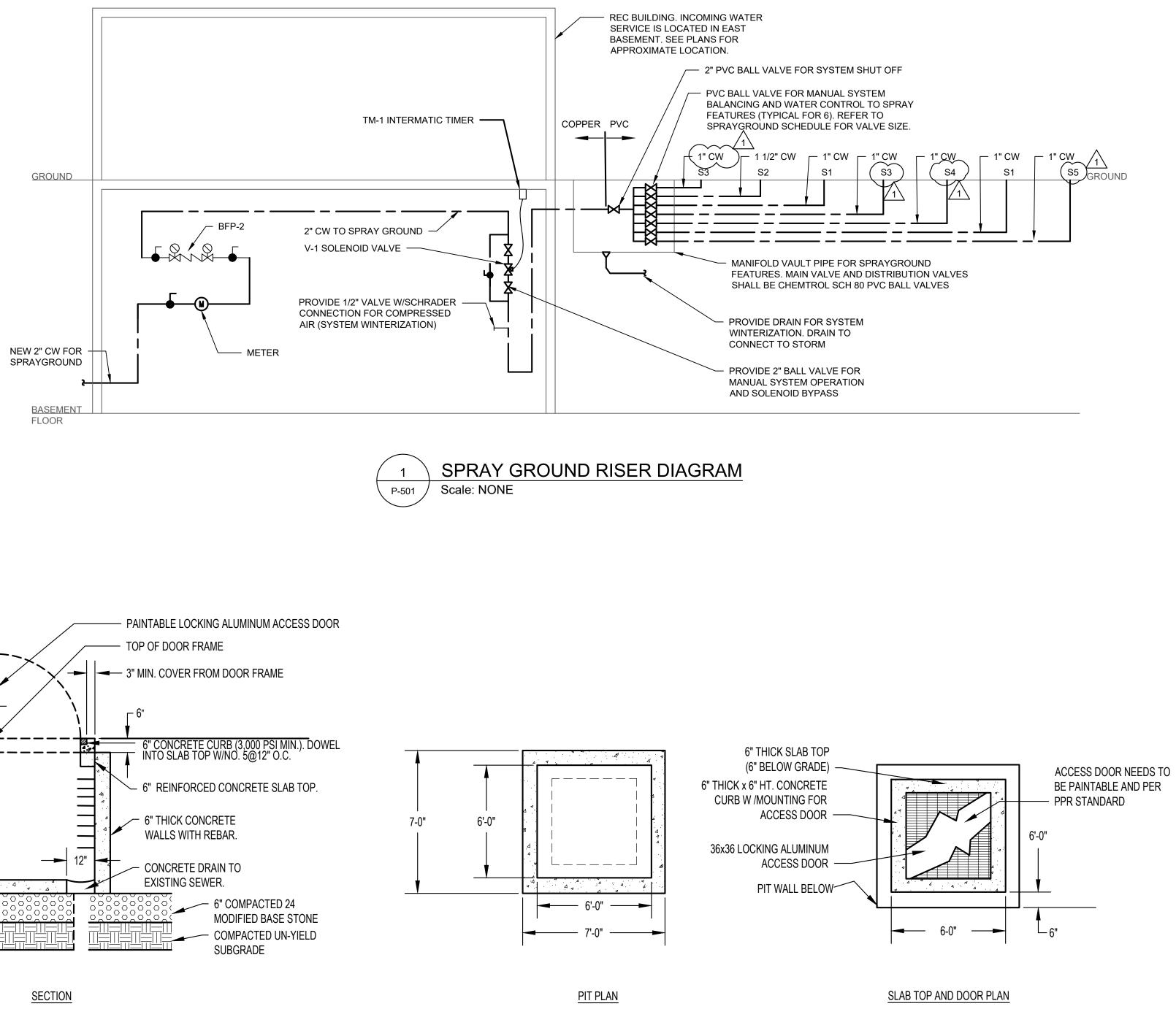
### PIPE SLEEVE DETAIL - INTERIOR

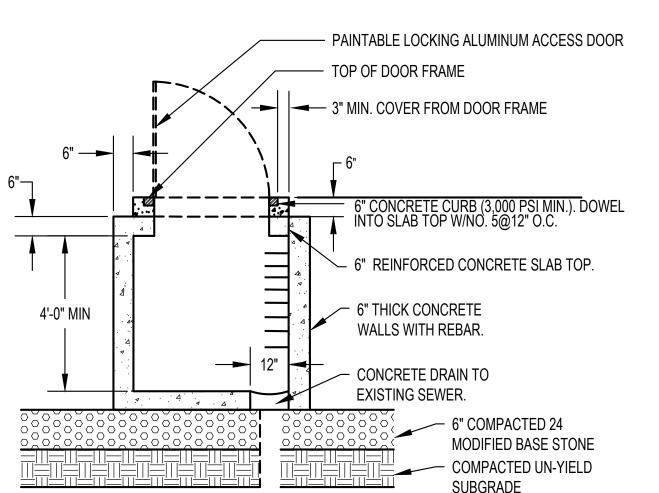


1. REFER TO SCHEDULE SHEET FOR BFP MODEL AND ENLARGED DOMESTIC WATER PLAN FOR LOCATION. 2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE PHILADELPHIA, PLUMBING CODES AND PROVIDE BACKFLOW PREVENTER TO MEET CROSS CONNECTION CONTROL PER LOCAL GUIDELINES.

### BACK FLOW PREVENTOR DETAIL

REVISIONS
ISSUE DATE REVISIONS
THE ACCOUNTS OF MANE TO
CONSTRUCTION DOCUMENTS
PROJECT COORDINATOR
SEALS
ENGINEEN No. 041818-E
<b>SMP ARCHITECTS</b> 1600 Walnut Street, 2nd Floor Philadelphia, Pennsylvania 19103 215 985 4410
LANDSCAPE ARCHITECT: GROUND RECONSIDERED www.groundreconsidered.com 215 790 0727
CIVIL ENGINEER: KS ENGINEERS www.kseng.com 215 925 0425
STRUCTURAL ENGINEER: ANN ROTHMANN STRUCTURAL ENGINEERING arstructural.com 610 688 2566
MEP ENGINEER: ARORA ENGINEERS www.aroraengineers.com 610 459 7900
ROOFING CONSULTANT: STEPHEN McLAUGHLIN ROOFING CONSULTANT stevemclaughlin.biz 856 287 2424
CITY OF PHILADELPHIA DEPARTMENT OF PARKS & RECREATION
1515 ARCH STREET 11TH FLOOR, ONE PARKWAY BUILDING PHILADELPHIA PENNSYLVANIA
RENOVATIONS TO THE HAPPY
HOLLOW RECREATION CENTER
PLUMBING DETAILS
16315E-03-02
DATE 05/13/2025 P-500
DRAWN BY TM
CHECKED BY PL FILE:
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK







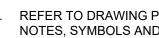
2

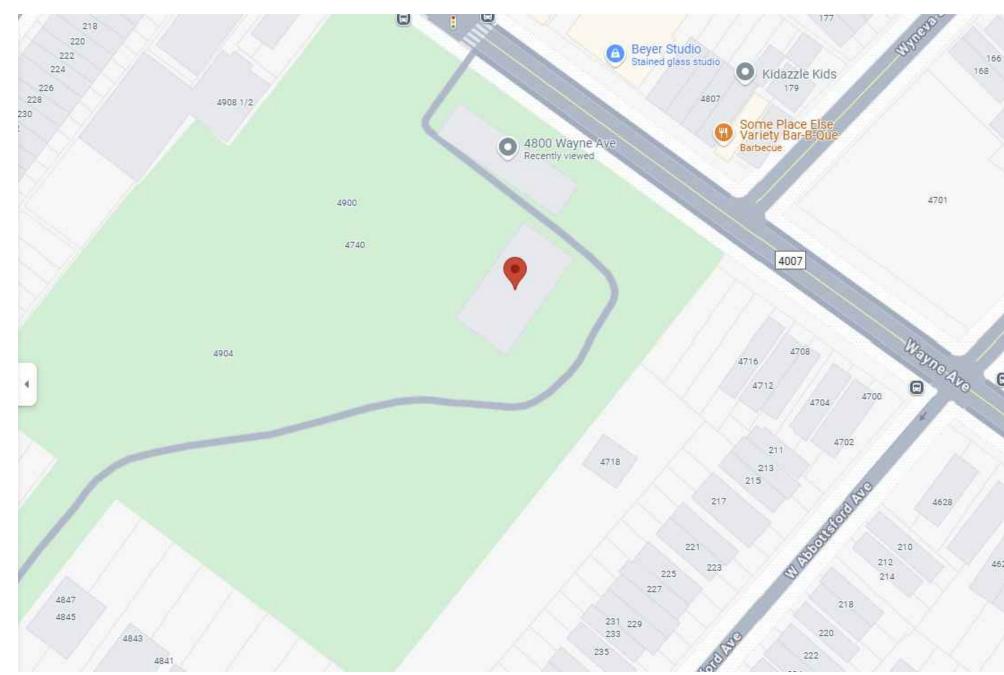
1. CONCRETE VAULT SHALL BE MANUFACTUREED BY ALTOMORE PRECAST CONCRETE. 2. CONTRACTOR TO CONFIRM REQUIRED INTERIOR DIMENSIONS OF CONCRETE VAULT PRIOR TO FABRICATION; COORDINATE WITH SPRAYGROUND EQUIPMENT SUPPLIER.

CONCRETE VAULT DETAIL P-501 / NOT TO SCALE











		OTES:					REVI	SIONS
	REFER TO DRAWING NOTES, SYMBOLS AI	G P000 FOR PLUMBING GENE ND ABBREVIATIONS.	RAL			ISSUE	DATE	REVISIONS
2.	REFER TO DRAWING	G P400 FOR RISER DIAGRAMS	5			1	06/23/2025	REVISION 1
3.	REFER TO DRAWING	G P500 FOR PLUMBING DETAI	ILS.					
	REFER TO DRAWING SCHEDULES.	G P600 FOR PLUMBING						
					77	0.046		
218 220 222			Beyer S	Studio glass studio	SUSPECTO	166		
224 226 228 4908 1/2	Y		stained	4807 Kidazzle Kid	ds	168		
228 4908 1/2 230		4900	Wayne Ave	Some Place Els Variety Bar-B-Q	e	$\langle \langle \rangle$		
		O 4800 Recent	Wayne Ave	Barbecue		$\leq$		
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4904				4708	Wayne Ave		PHILADEI DUT	
•		-		4712 470		e		MANETY
				211	4702		Ň	$\smile$
			4718	213 215	100	1/-		
				217 221 223	Stoching 4628			
			22	221	210 212 214	462 PROJECT COORD		TION DOCUMENTS
4847			227		218	X	LEE	ANN SUEN
4845			231 229 233 235	5 <sup>9</sup> 21	20	1		
4841								
	DLLOW SPF	RAYGROUND L	OCATION	222		SEALS		
P-501		RAYGROUND L				SEALS		
P-501	HAPPY HOL	LLOW SPRAYG				SEALS		
P-501 H INSTALLE	HAPPY HOL	LLOW SPRAYG	ROUND		TOTAL (GPM)		HITECTS	
P-501 INSTALLE COMPONENT NAME	HAPPY HOL D WATER FEAT TAG	LLOW SPRAYG	ROUND <sub>QTY</sub>	FLOW RATE (GPM)		SMP ARC 1600 Walr Philadelph	nut Street, 2nd F nia, Pennsylvani	
P-501 H INSTALLE	HAPPY HOL	LLOW SPRAYG	ROUND	FLOW RATE	TOTAL (GPM)	<b>SMP ARC</b> 1600 Walr Philadelph 215 985 4	nut Street, 2nd F nia, Pennsylvani 410	a 19103
P-501 INSTALLE COMPONENT NAME	HAPPY HOL D WATER FEAT TAG	LLOW SPRAYG	ROUND <sub>QTY</sub>	FLOW RATE (GPM)		SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou	nut Street, 2nd F nia, Pennsylvani 410 <u>APE ARCHITEC</u> <b>RECONSIDER</b> ndreconsidered	a 19103 T <u>:</u> <b>ED</b>
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO	HAPPY HOL ED WATER FEAT TAG S1	LLOW SPRAYG	ROUND <sub>QTY</sub>	FLOW RATE (GPM) 6	12	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0	nut Street, 2nd F nia, Pennsylvani 410 <u>APE ARCHITEC</u> RECONSIDER ndreconsidered 727	a 19103 T <u>:</u> <b>ED</b>
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO	HAPPY HOL ED WATER FEAT TAG S1 S2	LLOW SPRAYG	ROUND QTY 2 1	FLOW RATE (GPM) 6	12 10	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou	nut Street, 2nd F nia, Pennsylvani 410 <u>APE ARCHITEC</u> <b>RECONSIDER</b> ndreconsidered 727 <u>GINEER:</u> <b>NEERS</b> ng.com	a 19103 T <u>:</u> <b>ED</b>
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT	HAPPY HOL ED WATER FEAT TAG S1 S2 S3	LLOW SPRAYG	ROUND QTY 2 1	FLOW RATE (GPM) 6 10 1	12 10 2	SMP ARC 1600 Walr Philadelph 215 985 4 <u>LANDSCA</u> <b>GROUND</b> www.grou 215 790 0 <u>CIVIL ENC</u> <b>KS ENGIN</b> www.ksen 215 925 0 <u>STRUCTL</u> ANN ROT	nut Street, 2nd F nia, Pennsylvani 410 <u>APE ARCHITEC</u> <b>RECONSIDER</b> ndreconsidered 727 <u>GINEER:</u> <u>NEERS</u> ng.com 425 <u>JRAL ENGINEE</u> <b>TMANN STRU</b>	a 19103 <u>T:</u> ED .com
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2	SMP ARC 1600 Walr Philadelph 215 985 4 <u>LANDSCA</u> <b>GROUND</b> www.grou 215 790 0 <u>CIVIL ENC</u> <b>KS ENGIN</b> www.ksen 215 925 0 STRUCTU	nut Street, 2nd F nia, Pennsylvani 410 APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NEERS ng.com 425 JRAL ENGINEE HMANN STRU	a 19103 <u>T:</u> <b>ED</b> .com
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2 1.5 1	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTU ANN ROT arstructura 610 688 2 MEP ENG ARORA E	nut Street, 2nd F nia, Pennsylvani 410 APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: JRAL ENGINEE HMANN STRU al.com 566 INEER: SINEER:	a 19103 T: ED .com
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2 1.5 1	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E www.arora 610 459 7	hut Street, 2nd F nia, Pennsylvani 410 APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: JRAL ENGINEE HMANN STRU al.com 566 INEER: SIGINEERS aengineers.com 900	a 19103 T: ED .com
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2 1.5 1	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E www.arora 610 459 7 ROOFING STEPHEN stevemcla	A PE ARCHITEC APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: NGINEER: NGINEER: NGINEERS aengineers.com 900 CONSULTANT NGLAUGHLIN ughlin.biz	a 19103 T: ED .com
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1 COTAL GPM FO	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2 1.5 1	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E www.arora 610 459 7 ROOFING STEPHEN	Aut Street, 2nd F nia, Pennsylvani 410 APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: NGINEER: THMANN STRUE al.com 566 GINEER: SINGINEERS aengineers.com 900 GCONSULTANT I MCLAUGHLIN ughlin.biz	a 19103 T: ED .com R: CTURAL ENGINEERING
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 1 COTAL GPM FO	FLOW RATE (GPM) 6 10 1 1.5 1	12 10 2 1.5 1	SMP ARC 1600 Waln Philadelph 215 985 4 <u>LANDSCA</u> <b>GROUND</b> www.grou 215 790 0 <u>CIVIL ENC</u> <b>KS ENGIN</b> www.ksen 215 925 0 <u>STRUCTL</u> <b>ANN ROT</b> arstructura 610 688 2 <u>MEP ENG</u> <b>ARORA E</b> www.arora 610 459 7 <u>ROOFING</u> <b>STEPHEN</b> stevemcla 856 287 2	And Street, 2nd F nia, Pennsylvani 410 APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: JRAL ENGINEE HMANN STRU al.com 566 INEER: SIGINEERS aengineers.com 900 CONSULTANT I MCLAUGHLIN ughlin.biz 424	a 19103 T: ED .com R: CTURAL ENGINEERING T. ROOFING CONSULTANT
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5 S5 SPRAY TIN	LLOW SPRAYG	ROUND	FLOW RATE (GPM) 6 10 1 1.5 1 0R SPRAY GROUND	12 10 2 1.5 1	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTU ANN ROT arstructura 610 688 2 MEP ENG ARORA E www.arora 610 459 7 ROOFING STEPHEN stevemcla 856 287 2	APE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGLERS ag.com 425 JRAL ENGINEE THMANN STRUE al.com 566 INEER: SAGINEERS aengineers.com 900 CONSULTANT MCLAUGHLIN ughlin.biz 424	A 19103 T: ED .com R: CTURAL ENGINEERING TROOFING CONSULTANT PHILADELPHIA
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER SYMBOL DESCRIPTION	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S5 S5 S5 SPRAY TIN SPRAY TIN	LLOW SPRAYG	SROUND QTY 2 1 2 1 1 COTAL GPM FO OTAL GPM FO DEL, NOTES & MECHANICAL	FLOW RATE (GPM) 6 10 1 1.5 0R SPRAY GROUND	12 10 2 1.5 1 26.5	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND WWW.grou 215 790 0 CIVIL ENC KS ENGIN WWW.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E WWW.arora 610 459 7 ROOFING STEPHEN stevemcla 856 287 2	A CITY OF RTMENT C RTMENT C RECONSIDER APE ARCHITEC RECONSIDER APE ARCHITEC RECONSIDER ARCONSIDER ARCONSIDER ARCONSIDER ARCONSIDER ARCONSIDER ARCONSIDER ARCONSIDER ARCONSULTANT ARCLAUGHLIN Ughlin.biz 424	A 19103 T: ED .com R: CTURAL ENGINEERING T: ROOFING CONSULTANT PHILADELPHIA PHILADELPHIA F PARKS & RECREATI ARCH STREET
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER SYMBOL DESCRIPTION TM-1 INTERMATIC TIMER	HAPPY HOL D WATER FEAT TAG S1 S2 S3 S4 S5 SPRAY TIN NTERMATIC 2 TO HAVE 120	LLOW SPRAYG	ROUND QTY 2 1 2 1 1 0 TOTAL GPM FO OTAL GPM FO DEL, NOTES & MECHANICAL	FLOW RATE (GPM) 6 10 1 1.5 R SPRAY GROUND R SPRAY GROUND	12 10 2 1.5 1 26.5	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND WWW.grou 215 790 0 CIVIL ENC KS ENGIN WWW.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E WWW.arora 610 459 7 ROOFING STEPHEN stevemcla 856 287 2	APE ARCHITEC RECONSIDER NATE ARCHITEC RECONSIDER INTERS IGLOOM A25 IRAL ENGINEE IMANN STRUE INGINEERS A engineers.com 900 CONSULTANT INCLAUGHLIN Ughlin.biz 424 CITY OF RTMENT O 1515 ITH FLOOR, C	A 19103 T: ED. COM R: CTURAL ENGINEERING TROOFING CONSULTANT PHILADELPHIA PHILADELPHIA F PARKS & RECREATI
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER COMPONENT NAME SYMBOL DESCRIPTION TM-1 INTERMATIC TIMER DTE: SPRAYGROUND OPERATION AND SCH	HAPPY HOL ED WATER FEAT TAG S1 S2 S3 S4 S4 S5 S5 S5 SPRAY TIN NTERMATIC 2 TO HAVE 120 IN BASEMENT	LLOW SPRAYG	SROUND QTY 2 1 2 1 1 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5	FLOW RATE (GPM) 6 10 1 1.5 1 0R SPRAY GROUND R SPRAY GROUND ACCESSORIES ON/OFF SWITCH. T DL. TIMER TO BE LO ENOID	12 10 2 1.5 1 26.5	SMP ARC 1600 Waln Philadelph 215 985 4 LANDSCA GROUND WWW.grou 215 790 0 CIVIL ENC KS ENGIN WWW.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E WWW.arora 610 459 7 ROOFING STEPHEN stevemcla 856 287 2	APE ARCHITEC RECONSIDER NATE ARCHITEC RECONSIDER INTERS IGLOOM A25 IRAL ENGINEE IMANN STRUE INGINEERS A engineers.com 900 CONSULTANT INCLAUGHLIN Ughlin.biz 424 CITY OF RTMENT O 1515 ITH FLOOR, C	A 19103 T: ED .com R: CTURAL ENGINEERING T: ROOFING CONSULTANT PHILADELPHIA PHILADELPHIA F PARKS & RECREATI ARCH STREET INE PARKWAY BUILDING
P-501 INSTALLE COMPONENT NAME FS ANETH BLOOM 1 GS GROUP VOLCANO GS SOLO SPURT GS SPLIT SPURT GS MISTER MISTER COMPONENT NAME SYMBOL DESCRIPTION TM-1 INTERMATIC TIMER DTE:	HAPPY HOLE D WATER FEAT TAG S1 S2 S3 S4 S5 SFRAY TIN NTERMATIC 2 TO HAVE 120 IN BASEMENT HEDULE TO BE OF FOR OPERATIO	LLOW SPRAYG	SROUND	FLOW RATE (GPM) 6 10 1 1.5 1 x SPRAY GROUND R SPRAY GROUND ACCESSORIES ON/OFF SWITCH. T DL. TIMER TO BE LO ENOID	12 10 2 1.5 1 26.5	SMP ARC 1600 Walr Philadelph 215 985 4 LANDSCA GROUND www.grou 215 790 0 CIVIL ENC KS ENGIN www.ksen 215 925 0 STRUCTL ANN ROT arstructura 610 688 2 MEP ENG ARORA E www.arora 610 459 7 ROOFING STEPHEN stevemcla 856 287 2 DEPA 1 PHILADELP PROJECT TITLE REN	APE ARCHITEC RECONSIDER MPE ARCHITEC RECONSIDER ndreconsidered 727 GINEER: NGINEER: NGINEER: NGINEERS aengineers.com 900 CONSULTANT MCLAUGHLIN ughlin.biz 424 CITY OF RTMENT O 1515 11TH FLOOR, C HIA	A 19103 T: ED .com R: CTURAL ENGINEERING T: ROOFING CONSULTANT PHILADELPHIA PHILADELPHIA F PARKS & RECREAT ARCH STREET INE PARKWAY BUILDING

		SPRAY TIME
SYMBOL	DESCRIPTION	MAN
TM-1	INTERMATIC TIMER	INTERMATIC 24 H TO HAVE 120 V O IN BASEMENT IN

SYMBOL	DESCRIPTION	SIZE	
V-1	SPRAYGROUND SHUT OFF VALVE	2"	WATTS MAIN VA COCKS.

MANUFACTURER, MODEL, NOTES & ACCESSORIES

S LEAD FREE LF-133-12 FULL PORT SINGLE CHAMBER VALVE. ALVE SHALL BE F100 WITH 3 WAY SOLENOID AND ISOLATION 3. PROVIDE WITH ACS FOR ADJUSTABLE CLOSING SPEED

PROJECT NO		DRAWING NO.
10	6315E-03-02	
DATE	05/13/2025	P-501
SCALE	AS NOTED	
DRAWN BY	ТМ	
CHECKED BY	PL	FILE:
NOTE:	ALL DIMENSIONS AND CONDITIONS S CONTACTOR AT THE SITE BEFORE PRO	

							PLUM	BING FIXTUR	E SCHEDULE	
тас			TRAP SIZE			CONNECTION SIZE			MANUFACTURER / MODEL #	
TAG	FIXTURE	FLOW RATE	(IN)	ELECTRICAL	CW (IN)	HW (IN)	SAN (IN)	VENT	(BASIS OF DESIGN)	
WC-1	WATER CLOSET	1.6 GPF	4"	-	1-1/4"	-	4"	2"	AMERICAN STANDARD MODEL 2234.001	FLOOR M SLOAN R FLUSH LE
WC-2	ADA WATER CLOSET	1.6 GPF	4"	-	1-1/4"	-	4"	2"	AMERICAN STANDARD MODEL 3043.001	FLOOR M SLOAN R FLUSH LE
UR-1	URINAL	1 GPF	2"	-	3/4"	-	2"	1-1/2"	AMERICAN STANDARD 6590.001EC	WALL MO ROYAL 18
LAV-1	21 X 18 LAVATORY	0.35 GPM	2"	-	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD 0355.012.020	WALL MO SUPPORT GPM 4" CI MIXING V
SK-1	PANTRY SINK	1.5 GPM	2"	-	1/2"	1/2"	2"	1-1/2"	ELKAY ELUHAD211545PD	COUNTER
FD-1	LIGHT DUTY FLOOR DRAIN	-	3"	-	-	-	3"	1-1/2"	JAY R SMITH 2005YB	PROVIDE PROVIDE
FD-2	MEDIUM DUTY FLOOR DRAIN	-	3"	-	-	-	3"	1-1/2"	ZURN Z1727	PROVIDE PROVIDE
TP-1	TRAP PRIMER	0.01 GPM	-	-		-	-	-	PRECISION PLUMBING PRODUCTS P2-500	INSTALL O
MR-1	24 X 24 MOP SINK	1.5 GPM	3"	-	1/2"	1/2"	3"	1-1/2"	FIAT TSB3000	TERAZZO 8344.212 HOOK.
EWC-1	BI-LEVEL ELECTRIC WATER COOLER	8 GPH	1 1/2"	115V/60HZ	1/2"	-	2"	1-1/2"	ELKAY BI-LEVEL MODEL LZSTL8WSLK	PROVIDE

					E		R HEATER SC	HEDULE			
TAG	AREA SERVED	MANUFACTURER / MODEL #		ELECTRICAL	•	CONNECTION	CAPACITY	WATER TEMPERARTURE	WATER TEMPERATURE	GPH AT 100	REMARKS
		(BASIS OF DESIGN)	VOLTAGE	PHASE	AMPERAGE	SIZE	(GAL)	IN (F)	OUT (F)	DEG F RISE	
EWH-1	EAST WING	AO SMITH DSE-20A-9	240V	3	21.7 A	1-1/4"	20	40	140	37	PROVIDE WITH AMTROL ST-5C-DD EXPANSION TANK.
EWH-2	WEST WING	AO SMITH DSE-20A-15	240V	3	36.1 A	1-1/4"	20	40	140	61	PROVIDE WITH AMTROL ST-5C-DD EXPANSION TANK.

						SUMP PUM	IP SCHEDULE				
TAG	AREA SERVED	MANUFACTURER / MODEL #		ELECT	RICAL		WASTE DISCHARGE	CAPACITY	HEAD (FT)	RATING (HP)	
IAG	AREA SERVED	(BASIS OF DESIGN)	VOLTAGE	PHASE	HERTZ	AMPERAGE		(GPM)			
SP-1	EAST BASEMENT	ZOELLER WM49	115V	1	60 HZ	4 A	1-1/2"	10	15	1/4	CAST INTE
SP-2	WEST BASEMENT	ZOELLER WM49	115V	1	60 HZ	4 A	1-1/2"	10	15	1/4	CAST INTE

BACKFLOW PREVENTER SCHEDULE								
TAG	AREA SERVED	MANUFACTURER / MODEL # (BASIS OF DESIGN)	SIZE	REMARKS				
BFP-1	EAST AND WEST BASEMENTS	WATTS LF009	1-1/2"	15 PSI PRESSURE DROP AT 50 GPM. PROVIDE WITH SHUTOFF VALVES, STRAINER, AND AIR GAP.				

REMARKS
MOUNTED WATER CLOSET WITH BOTTOM OUTLET AND TOP SPUD. PROVIDE WITH ROYAL 111-1.6 FLUSHOMETER AND AMERICAN STANDARD 5901.100SS TOILET SEAT. EVER ON FLUSHOMETER SHALL BE LOCATED TO OPEN SIDE OF ROOM.
MOUNTED WATER CLOSET WITH BOTTOM OUTLET AND TOP SPUD. PROVIDE WITH ROYAL 111-1.6 FLUSHOMETER AND AMERICAN STANDARD 5901.100SS TOILET SEAT. EVER ON FLUSHOMETER SHALL BE LOCATED TO OPEN SIDE OF ROOM.
OUNTED TOP SPUD URINAL WITH WASHOUT FLUSH ACTION PROVIDE WITH SLOAN 86-1.0 FLUSHOMETER.
OUNTED LAVATORY WITH FRONT OVERFLOW AND HOLES FOR CONCEALED ARMS AT. PROVIDE WITH GRID DRAIN. PROVIDE WITH AMERICAN STANDARD 5500.174 0.35 CENTERSET MANUAL FAUCET WITH WRIST BLADE HANDLES AND WATTS LFUSG-B VALVE. PROVIDE UNDER LAVATORY GUARD.

NTER MOUNTED PANTRY SINK. PROVIDE WITH KOHLER K-810T20-5AHA FAUCET.

IDE WITH 6" SQUARE TOP, NICKEL BRONZE STRAINER, AND VANDAL PROOF SCREWS. IDE WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL DEVICE.

/IDE WITH 6" SQUARE TOP, STAINLESS STEEL STRAINER, AND VANDAL PROOF SCREWS. /IDE WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL DEVICE.

L ON LINE FEEDING WATER CLOSET FLUSH VALVE. INSTALL PER MANUFACTURER'S JCTIONS.

ZZO MOP SERVICE BASIN WITH 6" DROP FRONT. PROVIDE WITH AMERICAN STANDARD 212 WALL-MOUNT FAUCET WITH INTEGRAL VACUUM BREAKER, HOSE END, AND BUCKET

/IDE BI-LEVEL WALL MOUNTED COOLER WITH FILTER AND REFRIGERATED CHILLING ACITY OF 8 GPH WITH BOTTLE FILLER. PROVIDE PUSH BUTTON ACTIVATION.

### REMARKS

AST IRON SUBMERSIBLE SUMP PUMP. AUTOMATIC WITH ITEGRAL FLOAT. PROVIDE WITH 20 INCH CORD. AST IRON SUBMERSIBLE SUMP PUMP. AUTOMATIC WITH ITEGRAL FLOAT. PROVIDE WITH 20 INCH CORD.

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- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS & LAWS OF AUTHORITIES HAVING JURISDICTION
- ALL MATERIALS, MEANS AND METHODS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES, REGULATIONS AND STANDARDS.
- CONTRACTOR SHALL PERFORM A SITE SURVEY TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- CONTRACTOR SHALL TAKE STEPS REQUIRED TO ASSURE THE EXISTING FIRE ALARM SYSTEM TO BE EXPANDED / MODIFIED SHALL BE ASSESSED TO CONFIRM THAT IT IS A CURRENT PRODUCT SUPPORTED BY THE MANUFACTURER AND HAS CAPACITY FOR NEW WORK.
- EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES FOR A THOROUGH UNDERSTANDING OF PROJECT AND ANY CROSS REFERENCING OF WORK. REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING. IN THE CASE OF ANY DISCREPANCIES, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- THE CONTRACTOR SHALL PROVIDE SECURITY WITHIN THE CONSTRUCTION AREA AND WILL LIMIT SITE ACCESS TO AUTHORIZED PERSONNEL ONLY.
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA THROUGH DESIGNATED ACCESS POINTS AS DETERMINED BY THE OWNER OR THEIR DESIGNATED REPRESENTATIVE.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA OR CONFINES OF THE WORK ARFA
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF CONSTRUCTION DEBRIS AND REFUSE ON A DAILY BASIS.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS (WITH AS-BUILT INFORMATION) SHALL BE KEPT AT THE JOB SITE AT ALL TIMES BY THE CONTRACTOR.
- ALL PENETRATIONS, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL. ALL FIRE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL REPLACE IN-KIND ANY EQUIPMENT OR ARCHITECTURAL 12. ELEMENTS DAMAGED BY WORK OF THIS PROJECT AT NO ADDITIONAL COSTS TO THE OWNER
- CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE 13. INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMAN LIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT AS REQUIRED TO MATCH PAINT FINISH AND COLOR OF EXISTING ADJACENT AREAS. CONTRACTOR SHALL SALVAGE MATERIALS FOR RE-USE IN AREAS WHERE SUBSTRATES/SURFACES ARE TO BE PATCHED/REPAIRED (I.E. TILES, WALLS, CEILING TILE).
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF 14. ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
- IN ADDITION TO SPECIFICATIONS, AS MAY BE DEFINED HEREAFTER, THE 15. CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST ANY DAMAGE UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWING MADE IN THE INSTALLATION, AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT.
- PRIOR TO DELIVERY OF ANY MATERIALS TO THE SITE. THE CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- PERCUSSIVE FASTENING SYSTEMS, INCLUDING BUT NOT LIMITED TO POWDER, GAS 18. AND PNEUMATIC ACTUATED ANCHORS, WILL NOT BE PERMITTED ANYWHERE ON THE PROJECT. CONTRACTORS ARE PERMITTED TO USE MECHANICAL TYPE UNISTRUT FASTENING DEVICES ONLY.
- PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE INSPECTED, 19. TESTED AND OPERATED TO DEMONSTRATE TO THE OWNER, OR HIS DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- THE BUILDING IS A WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE 20. PLANNING, CAREFUL PREPARATION AND EXECUTION, ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL CONSTRUCTION TRADES AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE BUILDING. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH THE ARCHITECTURAL PHASING PLAN.
- PRIOR TO ANY CORE DRILLING, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF 21. A UTILITY LOCATOR FIRM WITH ABILITY TO LOCATE CONDUIT IN CONCRETE SLABS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF CONDUITS IN SLAB, THEN PRESENT THE FINDINGS TO THE ENGINEER FOR REVIEW PRIOR TO CORE DRILLING. ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL. ALL FIRE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS.
- ALL EXISTING ABANDONED CONDUIT/PIPING OR CONDUIT/PIPING MADE ABANDONED 22. BY WORK OF THIS PROJECT SHALL BE REMOVED FROM WITHIN THE PROJECT BOUNDARIES. CUT AND CAP CONDUIT/PIPING BACK TO IT'S SOURCE BEYOND (OUTSIDE OF) THE PROJECT BOUNDARIES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE CUTTING AND PATCHING OF ALL CEILINGS, FLOORS AND WALLS AS REQUIRED.
- 23. JUNCTION BOXES, VALVES, DAMPERS, OR ANY CONCEALED EQUIPMENT REQUIRING ACCESS SHALL ONLY BE PERMITTED / LOCATED IN ACCESSIBLE TYPE AREAS (I.E. LAY-IN TYPE CEILING, ETC.) OR SHALL BE PROVIDED WITH ACCESS PANELS.
- WHERE UTILITIES AND/OR SERVICES REQUIRE SHUTDOWN FOR THE WORK TO BE 24. PERFORMED, NOTIFY THE PORT AUTHORITY PROJECT ENGINEER. REQUESTS FOR

### GENERAL NOTES CONT'D):

UTILITY AND/OR SERVICES SHUTDOWNS SHALL BE SUBMITTED TO THE PORT AUTHORITY PROJECT ENGINEER, IN WRITING, A MINIMUM OF ONE WEEK PRIOR TO THE SCHEDULED SHUTDOWN.

- ALL SYSTEMS SHALL BE RETURNED TO SERVICE PRIOR TO COMPLETION OF 25. APPROVED SHIFT AND AT THE END OF EACH WORK DAY. IN THE EVENT A SYSTEM CANNOT BE RETURNED TO SERVICE THE CONTRACTOR SHALL PROVIDE A FIRE WATCH
- ALL PAINT SHALL MEET THE REQUIREMENTS OF THE NFPA FOR FLAME SPREAD AND 26. SMOKE DENSITY. PAINT PROCESS SHALL MEET ENVIRONMENTAL STANDARDS FOR VENTILATION AS ESTABLISHED BY OSHA. ALL PAINTS, SOLVENTS, RAGS AND OTHER PAINTING REFUSE SHALL BE DISPOSED OF PROPERLY OFF SITE IN ACCORDING TO STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. EVIDENCE OF SUCH COMPLIANCE SHALL BE FURNISHED TO THE OWNER PRIOR TO THE START OF PAINTING WORK.
- PRIOR TO THE APPLICATION OF PAINT, CONTRACTOR SHALL PROPERLY PREPARE AND CLEAN PIPING AND EQUIPMENT PER PAINT MANUFACTURES GUIDELINES.
- 28. THE CONTRACTOR SHALL TAKE ANY/ALL PREVENTIVE MEASURES TO CURTAIL THE NOISE LEVEL AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO CURTAIL ANY ACTIVITY IT DEEMS OBTRUSIVE TO OPERATIONS.

### GENERAL DEMOLITION NOTES:

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AFFECTING THIS PROJECT AND COORDINATE WITH ALL OTHER DISCIPLINES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL CAPACITIES & LOCATIONS OF EQUIPMENT TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO DETERMINE ACTUAL PHYSICAL SIZE, CAPACITIES, AND LOCATIONS OF EXISTING EQUIPMENT TO BE REMOVED.
- THE CONTRACTOR SHALL TAKE STEPS REQUIRED TO ASSURE THE EXISTING FIRE ALARM SYSTEM TO BE EXPANDED / MODIFIED SHALL BE ASSESSED TO CONFIRM THAT IT IS A CURRENT PRODUCT SUPPORTED BY THE MANUFACTURER AND HAS CAPACITY FOR NEW WORK
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, COORDINATE ALL REQUIRED EQUIPMENT AND SYSTEMS SHUTDOWN WITH OWNER, AND PROVIDE OWNER TWO WEEKS NOTICE OF SAME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING & PATCHING AS IT MAY APPLY TO THE AREAS OF DEMOLITION, OR MAY BE AFFECTED BY PIPE, DUCTWORK, EQUIPMENT & APPURTENANCES. PATCH & REPAIR SHALL MATCH EXISTING BUILDING CONDITIONS.
- COORDINATE THE DEMOLITION WORK WITH ALL OTHER TRADES. PHASE WORK IN CONJUNCTION WITH OTHER TRADE PHASING & PHASING DRAWINGS.
- 7. THE DEMOLITION/REMOVAL OF ITEMS BY THE CONTRACTOR SHALL BE AS FOLLOWS: UNLESS SPECIFICALLY NOTED OTHERWISE, ITEMS SHOWN IN HEAVY LINEWEIGHT DASHED LINES ON DEMOLITION SHEETS ARE EXISTING ITEMS TO BE REMOVED AND ITEMS SHOWN IN LIGHT LINEWEIGHT ITEMS ARE EXISTING ITEMS TO REMAIN
- DEMOLISHED EQUIPMENT/SERVICES SHALL BE REMOVED BACK TO THE LIMIT OF DEMOLITION AS INDICATED ON DRAWINGS, OR TO THE NEAREST HEADER OR JUNCTION. PROVIDE CAPS AS NECESSARY.
- THE CONTRACTOR SHALL FIELD VERIFY OTHER EQUIPMENT/UTILITIES NOT ASSOCIATED WITH THIS WORK BUT LYING WITHIN THE WORK AREA, AND SHALL NOT DISTURB THAT EQUIPMENT/UTILITIES. THESE EQUIPMENT/UTILITIES SHALL BE PROTECTED SO THAT THE SERVICE IS NOT INTERRUPTED. THE CONTRACTOR SHALL REPAIR ANY DAMAGE DONE TO THE EQUIPMENT/UTILITIES IN PERFORMANCE OF THE WORK.
- 10. ALL ITEMS BEING REMOVED SHALL BE TURNED OVER TO OWNER OR REMOVED FROM SITE AS DIRECTED, UNLESS OTHERWISE DESIGNATED.
- 11. THE CONTRACTOR SHALL KEEP WORK AREA CLEAN, ORDERLY, AND WORKMAN LIKE, AND REMOVE ALL DEMOLISHED TRASH/RUBBLE/CONSTRUCTION DEBRIS FROM THE SITE DAILY.
- 12. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF THE CONTRACTOR.
- 13. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
- 14. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- 15. REVIEW RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY THE OWNER. THE OWNER DOES NOT GUARANTEE THAT EXISTING CONDITIONS ARE THE SAME AS THOSE INDICATED IN RECORD DOCUMENTS.
- 16. WHEN UNANTICIPATED ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTEND OF CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT.
- 17. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- 18. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE SELECTIVE DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL.
- 19. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION.
- 20. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO REMAIN. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES.
- 21. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.

### FIRE ALARM NOTES:

- 1. THE SCOPE OF WORK INCLUDES FURNISHING MATERIALS AND LABOR FOR ALL DEMOLITION, INSTALLATION, PHASING, TESTING AND ACCEPTANCE OF THE FIRE ALARM SYSTEM(S) AS SHOWN IN THE CONTRACT DOCUMENTS. THE PROJECT SCOPE INCLUDES:
  - DEMOLITION OF THE HORN/STROBE IN THE MEN'S RESTROOM DEMOLITION OF THE AREA SMOKE DETECTORS IN THE ACTIVITIES ROOM, DEMOLITION OF THE HORN/STROBE AND THE SMOKE DETECTOR IN THE WOMEN'S RESTROOM
  - DEMOLITION OF THE EXISTING FIRE ALARM WIRE AND В. EQUIPMENT AS INDICATED ON THE DRAWINGS
  - INSTALLATION OF A HORN/STROBE IN THE WEST BASEMENT AND THE EAST BASEMENT, INSTALLATION OF A STROBE IN THE MEN'S RESTROOM, INSTALLATION OF BEAM SMOKE DETECTION IN THE ACTIVITIES ROOM. AND INSTALLATION OF A STROBE AND SMOKE DETECTOR IN THE WOMEN'S RESTROOM AND THE ALL GENDER RESTROOM
  - INSTALLATION OF THE NEW FIRE ALARM AND D.
  - EQUIPMENT AS INDICATED ON THE DRAWINGS INSTALLATION OF PROTECTIVE GUARDS ON ALL NEW FIRE ALARM DEVICES AND EQUIPMENT.
- THE PROJECT SHALL BE DESIGNED, INSTALLED, TESTED & COMMISSIONED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS, AS DEFINED BY THE AUTHORITY HAVING JURISDICTION AND THE PROJECT REQUIREMENTS. THESE INCLUDE 18. BUT ARE NOT LIMITED TO THOSE LISTED BELOW AND ANY ADOPTED REVISIONS THAT ARE APPLICABLE AT THE TIME OF PROJECT PERMITTING:
  - PHILADELPHIA BUILDING CODE, IBC 2018 AMENDED PHILADELPHIA EXISTING BUILDING CODE, IEBC 2018
  - AMENDED PHILADELPHIA FIRE CODE, IFC 2018 AMENDED
  - PHILADELPHIA MECHANICAL CODE, IMC 2018 AMENDED
  - PHILADELPHIA ACCESSIBILITY CODE, A117.1, 2009 NOT AMENDED
  - PHILADELPHIA ELECTRICAL CODE 2017, NFPA 70 2017
  - NOT AMENDED PHILADELPHIA FIRE ALARM CODE 2016, NFPA 72 2016
  - NOT AMENDED
  - 2010 ADA STANDARDS UNDERWRITER'S LABORATORIES, INC. (UL): FIRE
  - PROTECTION EQUIPMENT DIRECTORY MANUFACTURERS INSTALLATION INSTRUCTIONS
  - PROJECT SPECIFICATIONS
- ALL NEW DEVICES SHALL ADHERE TO THE EXISTING FIRE ALARM PROGRAMMING MATRIX.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE STEPS REQUIRED TO ASSURE THE EXISTING FIRE ALARM SYSTEM TO BE EXPANDED / MODIFIED SHALL BE ASSESSED TO CONFIRM THAT IT IS A CURRENT PRODUCT SUPPORTED BY THE MANUFACTURER AND HAS CAPACITY FOR NEW WORK.
- THE CONTRACTOR SHALL VERIFY THE CONDITION OF EACH INITIATING AND NOTIFICATION DEVICE TO REMAIN. IN THE EVENT THAT ANY OF THESE DEVICES ARE IMPROPERLY MOUNTED, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RE-INSTALL THE DEVICE PROPERLY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING 6. EXACT CIRCUIT TIE-IN LOCATIONS, IN THE EVENT THAT THE CIRCUIT 25. CONTRACTOR TO SUBMIT BATTERY CALCULATIONS FOR ALL FIRE IS TO BE EXTENDED. LOCATIONS AND POINTS SHOWN ON THE PLANS ARE DIAGRAMMATICAL AND FOR REFERENCE ONLY. THE CONTRACTOR SHALL SHOW FINAL INFORMATION ON SHOP DRAWINGS AND INSTALLATION SHALL NOT BEGIN UNTIL THESE PLANS ARE APPROVED
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL DEVICES WITH OTHER TRADES AND EXISTING FIELD CONDITIONS AS PART OF THIS CONTRACT.
- 8. ALL WIRING SHALL COMPLY WITH PROJECT SPECIFICATIONS, AND ALL LOCAL AND NATIONAL ELECTRICAL CODES.
- SUBSTITUTIONS OF TYPE FPLP OR CERTIFIED FIRE ALARM CABLES SHALL NOT BE PERMITTED.
- 10. ALL WIRE AND CABLE SHALL HAVE A WIRE MARKER ON EACH END, BRADY OR EQUAL. ALL MARKERS SHALL BE TYPED.
- 11. SHIELDS ON ALL SHIELDED CABLE SHALL BE CONTINUOUS, GROUNDED AT THE FIRE ALARM CONTROL PANEL ONLY, AND ISOLATED FROM GROUND ELSEWHERE.
- 12. NPLFA CIRCUIT CONDUCTORS INSULATION SHALL BE SUITABLE FOR 600 VOLTS. MULTI-CONDUCTOR NPLFA CIRCUIT CABLES, TYPES NPLFP, NPLFR, AND NPLF, SHALL NOT BE INSTALLED EXPOSED IN DUCTS, PLENUMS OR HOISTWAYS (SHAFTS).
- 13. POWER-LIMITED FIRE ALARM CIRCUIT CABLES AND CONDUCTORS SHALL NOT BE PLACED IN ANY CABLE, CABLE TRAY, COMPARTMENT, ENCLOSURE, MANHOLE, OUTLET BOX, DEVICE BOX, RACEWAY, OR SIMILAR FITTING WITH CONDUCTORS OF ELECTRIC LIGHT, POWER, CLASS 1, NON-POWER-LIMITED FIRE ALARM CIRCUITS, AND MEDIUM-POWER NETWORK-POWERED BROADBAND COMMUNICATIONS CIRCUITS.
- 14. INSTALLATION OF RACEWAYS, BOXES, ENCLOSURES, CABINETS, AND WIRING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - COVERS OF BOXES, ENCLOSURES AND CABINETS SHALL Α. BE PAINTED RED AND PERMANENTLY IDENTIFIED AS TO
  - PENETRATIONS THROUGH RATED WALLS, CEILINGS AND
  - FLOORS SHALL BE FIRE STOPPED.
  - RACEWAYS OR WIRING SHALL NOT PENETRATE THE TOP C. OF ANY CONTROL EQUIPMENT CABINET OR ENCLOSURE. RACEWAYS INSTALLED UP TO 8 FT IN STAIRWAYS SHALL 31.
  - NOT REDUCE OR OBSTRUCT REQUIRED STAIRWAY RADIUS OR EGRESS PATH
  - SIMILAR FITTINGS DESIGNED AND INSTALLED SO AS NOT TO DAMAGE THE CABLES. SUCH FITTING SHALL BE SECURED IN PLACE AT INTERVALS NOT EXCEEDING 5 FT ON CENTER AND WITHIN 1 FT OF ASSOCIATED CABINET OR BOX.
  - NEW JUNCTION BOXES AND/OR EXISTING JUNCTION BOXES AFFECTED BY THIS PROJECT SHALL BE PROPERLY LABELED "FIRE ALARM JUNCTION BOX" PER THE SPECIFICATIONS.
- 14. ALL CABLE SHALL BE UL LISTED AND MARKED PER NEC. WIRING SPECIFICATION SHALL BE AS FOLLOWS: MOUNTING FOR ALL DEVICES SHALL COMPLY WITH THE BUILDING CODE, NFPA 72, NEC, AND ADAAG.

### FIRE ALARM NOTES (CONT'D):

15. INSTALLATION OF NOTIFICATION AND VISUAL APPLIANCES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

- A. FIRE ALARM DEVICES SHALL BE ACCESSIBLE TO ALLOW PERIODIC INSPECTION, CLEANING AND MAINTENANCE. A FIRE ALARM DEVICE SHALL BE CONSIDERED ACCESSIBLE IF IT CAN BE READILY AND SAFELY ACCESSED WITH THE USE OF A LADDER OR A BOOM I IFT
- B. FIRE ALARM DEVICES SHALL NOT BE INSTALLED WHERE ACCESS IS IMPEDED BY MECHANICAL SYSTEMS, DUCTS, PIPES OR CONDUITS.
- C. FIRE ALARM DEVICES SHALL NOT BE INSTALLED WHERE THEY CANNOT BE MAINTAINED WITHOUT SHUTTING DOWN POWER OR ENDANGERING A MAINTENANCE TECHNICIAN
- ALL WALL MOUNTED NOTIFICATION APPLIANCES INSIDE THE AREA 16. OF WORK SHALL BE LOCATED SUCH THAT THE BOTTOM OF THE LENS IS ABOVE 80" FROM THE FINISHED FLOOR AND THE TOP OF THE LENS IS NOT HIGHER THAN 96" FROM THE FINISHED FLOOR.
- 17. ALL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, ALL HARDWARE, EQUIPMENT, PANEL MODIFICATIONS AND LABOR NECESSARY TO PERFORM SYNCHRONIZATION SHALL BE PART OF THIS CONTRACT.
- VISUAL NOTIFICATION APPLIANCES SHALL BE SET TO THE CANDELA RATING ASSIGNED ON THE DRAWINGS.
- 19. MINIMUM DECIBEL AMBIENT RATING SHALL BE 55db. HORN STROBE DECIBEL RATING SHALL BE 15db ABOVE AMBIENT.
- 20. CIRCUIT MODIFICATIONS, TERMINATIONS AND SPLICES SHALL BE MADE WITH TERMINAL BLOCKS AND IN LISTED FITTINGS. BOXES. ENCLOSURES, FIRE ALARM DEVICES OR UTILIZATION EQUIPMENT. SPLICES SHALL BE LIMITED TO LOCATIONS WHERE THE CONDITIONS OF INSTALLATION REQUIRE THE USE OF SPLICES. SPLICES AND TERMINATIONS IN RISER CABLES ARE PROHIBITED EXCEPT WHERE MADE IN FIRE ALARM EQUIPMENT TERMINAL CABINETS. MECHANICAL CONNECTIONS LISTED UNDER UNDERWRITERS LABORATORIES ("UL") 486-03, A & C SHALL BE USED FOR THE CONDUCTORS, OR IF SOLDERED, FIRST JOINED SO AS TO BE MECHANICALLY AND ELECTRICALLY SECURE PRIOR TO SOLDERING. TEMPERATURE RATING OF THE COMPLETED SPLICES SHALL EQUAL OR EXCEED THE TEMPERATURE RATING OF THE HIGHEST RATED CONDUCTOR.
- 21. FIRE ALARM CONDUITS SHALL BE LABELED AND IDENTIFIED PER THE PROJECT SPECIFICATIONS. ALL "EXPOSED" FIRE ALARM CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISHES UNLESS DIRECTED OTHERWISE.
- ACCESSIBLE ABANDONED FIRE ALARM SYSTEM CABLES, CONDUIT, 22. AND ELECTRICAL EQUIPMENT SHALL BE REMOVED.
- SUBMIT ALL DEVICE ADDRESSES FOR THIS PROJECT AS A PART OF 23. THIS CONTRACT'S SHOP DRAWING SUBMISSION.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS CONTAINING ALL THE 24. ELEMENTS REQUIRED BY THE PROJECT STANDARDS, CODES, AND SPECIFICATIONS AS WELL AS ANY TENANT/OWNER DESIGN GUIDELINES IN USE FOR THE PROJECT. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL.
- ALARM PANELS, DATA GATHERING PANELS, NOTIFICATION APPLIANCE CIRCUIT BOOSTER PANELS, AUXILIARY POWER SUPPLIES, OR SIMILAR APPURTENANCES TO ENSURE SUFFICIENT BACKUP POWER FOR THE MINIMUM STANDBY AND OPERATING PERIODS AS INDICATED BY CODE OR SPECIFICATION. WHICHEVER IS MORE STRINGENT. CALCULATIONS TO BE MADE USING VENDOR SPECIFIC TEMPLATES WHERE AVAILABLE. CALCULATIONS SHALL BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL.
- 26. CONTRACTOR TO SUBMIT VOLTAGE DROP CALCULATIONS FOR ALL FIRE ALARM ELECTRICAL CIRCUITS EXTENDING BEYOND THEIR RESPECTIVE ENCLOSURES TO ENSURE PROPER OPERATION OF SAID CIRCUITS. CALCULATIONS TO BE PROVIDED SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAL LINE CIRCUITS, INDICATING DEVICE CIRCUITS, ANNUNCIATOR CIRCUITS, AUDIO RISER CIRCUITS, NOTIFICATION APPLIANCE CIRCUITS, AND PANEL NETWORK CIRCUITS. CALCULATIONS TO BE MADE USING VENDOR SPECIFIC TEMPLATES. CALCULATIONS SHALL BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL.
- 27. CONTRACTOR TO SUBMIT PRODUCT DATA SHEETS (CUT SHEETS) FOR ALL MATERIAL INTENDED TO BE INCORPORATED AS A PART OF THE WORK. DATA SHEETS SHALL HAVE SUFFICIENT DETAIL TO ALLOW ENGINEER TO ASSESS WHETHER MATERIAL MEETS PROJECT SPECIFICATIONS, WHERE APPLICABLE.
- 28. INSTALLATION SHALL NOT BEGIN WITHOUT THE APPROVAL OF THE FIRE ALARM SHOP DRAWINGS BY THE ENGINEER. PLEASE REFER TO THE SPECIFICATIONS FOR REQUIREMENTS.
- 29. IN THE EVENT THAT A DEVICE IS LOCATED ON A SURFACE THAT IS UNSUITABLE FOR PROPER MOUNTING, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE SHOP DRAWINGS PHASE FOR APPROVAL OF AN ALTERNATE LOCATION. THIS NOTIFICATION SHALL OCCUR PRIOR TO CONDUIT AND JUNCTION BOX ROUGH-IN.
- 30. CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMAN LIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT AS REQUIRED TO MATCH PAINT FINISH AND COLOR OF EXISTING ADJACENT AREAS. CONTRACTOR SHALL SALVAGE MATERIALS FOR RE-USE IN AREAS WHERE SUBSTRATES/SURFACES ARE TO BE PATCHED/REPAIRED (I.E. TILES, WALLS, CEILING TILE).
- THE FIRE ALARM DEMOLITION AND NEW WORK WILL BE A PHASED PROCESS.
- CABLES SHALL BE SECURED BY CABLE TIES, STRAPS OR 32. NO TROUBLES OR ALARM CONDITIONS WILL BE PERMITTED AT THE COMPLETION OF EACH WORKDAY. ANY AND ALL ISSUES WILL BE CORRECTED PRIOR TO THE ELECTRICAL CONTRACTOR LEAVES THE PREMISES.
  - 33. IN THE EVENT OF A SYSTEM FAILURE OR AN UNRESOLVED TROUBLE OR ALARM CONDITION, AN APPROVED FIREWATCH WILL BE POSTED AND MAINTAINED UNTIL THE CONDITION IS RETURNED TO A NORMAL CONDITION.
  - 34. ALL SMOKE DETECTORS SHALL BE PROVIDED WITH NUISANCE ALARM REDUCTION FEATURES.

WITH MASTER SCHEDULE.

- OTHER TRADES.
- OWNER

### FIRE ALARM DESCRIPTIO

त्र <sup>75</sup>	WALL MOUNTED FIRE ALARM STR NUMBER DENOTES CANDELA RAT
Z 75	WALL MOUNTED FIRE ALARM HOP NUMBER DENOTES. CANDELA RA
∠ H	WALL MOUNTED FIRE ALARM HOP
F	MANUAL PULL STATION
s	ADDRESSABLE SMOKE DETECTO
s	BEAM SMOKE DETECTOR - RECEIN
s) <sub>TR</sub>	BEAM SMOKE DETECTOR - TRANS
M	ADDRESSABLE OUTPUT MODULE
M	ADDRESSABLE INPUT MODULE
СР	FIRE ALARM CONTROL PANEL
NN	FIRE ALARM ANNUNCIATOR
JR	SURGE SUPPRESSION DEVICE
	*HEAVY LINEWEIGHTS SHALL REF NEW WORK/NEW DEVICES.
	*LIGHT/LIGHTER LINEWEIGHTS SH REPRESENT EXISTING DEVICES.
	*HEAVY DASHED LINEWEIGHTS SI REPRESENT DEMO WORK.

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## SCHEDULE AND PHASING NOTES:

THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR SCHEDULE WITH THE MASTER PROJECT SCHEDULE. THE SCHEDULE SHALL BE COORDINATED WITH ALL OTHER TRADES AND SUBMITTED TO THE OWNER EVERY TWO WEEKS. ALL CONTRACTORS SHALL BEAR THE COST OF ANY SCOPE IMPACTS CAUSED BY CHANGES TO THE MASTER PROJECT SCHEDULE. PRIOR TO THE START OF INSTALLATION, A MASTER SCHEDULE SHALL BE SUBMITTED FOR OWNER APPROVAL. ALL WORK SHALL BE COMPLETE (INCLUDING TESTING AND FINAL APPROVAL BY AHJ) IN ACCORDANCE

FIRE ALARM WORK SHALL COMMENCE IN THE FOLLOWING PHASES

1. CONSTRUCTION COORDINATION AND SUBMITTALS: PERFORM DETAILED ANALYSIS OF THE PROJECT SITE AND ALL CONTRACT DOCUMENTS. DEVELOP AND SUBMIT CONSTRUCTION SUBMITTALS, COORDINATED WITH ALL TRADES, FOR APPROVAL BY OWNER AND OWNER'S REPRESENTATIVE.

SYSTEM INSTALLATION: UPON APPROVAL OF CONSTRUCTION SUBMITTALS PERFORM INSTALLATION IN ACCORDANCE WITH MASTER SCHEDULE AND COORDINATE INSTALLATION WITH ALL

PRE TESTING: PRIOR TO SUBMITTING A REQUEST FOR A DEMONSTRATION TO OWNER THE CONTRACTOR SHALL TEST AND OPERATE ALL FIRE ALARM EQUIPMENT, DEVICES AND INTEGRATED BUILDING SYSTEMS TO VERIFY THE PROPER OPERATION AND INSTALLATION OF THE FIRE ALARM SYSTEM AND BUILDING SYSTEM INTERFACES. ANY AND ALL ISSUES SHALL BE CORRECTED AND ADDITIONAL TESTING SHALL BE REPEATED UNTIL ISSUES ARE CORRECTED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE ALL TRADES NECESSARY FOR TESTING. UPON COMPLETION SUBMIT DRAFT NFPA-72 RECORD OF COMPLETION DOCUMENTATION TO

4. ACCEPTANCE TESTING/OPERATIONAL DEMONSTRATION TO OWNER: PRIOR TO SUBMITTING A REQUEST FOR FINAL INSPECTION THE CONTRACTOR SHALL SATISFACTORILY DEMONSTRATE TO OWNER'S REPRESENTATIVE THE PROPER OPERATION AND FUNCTION OF THE FIRE ALARM SYSTEM. DEMONSTRATION SHALL INCLUDE THE TESTING AND OPERATION OF ALL FIRE ALARM EQUIPMENT, DEVICES AND INTEGRATED BUILDING SYSTEMS. ANY AND ALL ISSUES SHALL BE CORRECTED AND ADDITIONAL TESTING SHALL BE REPEATED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE ALL TRADES NECESSARY FOR TESTING.

5. FINAL INSPECTION: UPON COMPLETION OF ACCEPTANCE TESTING CONTRACTOR SHALL REQUEST, COORDINATE AND PERFORM ALL INSPECTIONS AND TESTS REQUIRED BY THE AHJ. ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL AHJ APPROVAL AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL COORDINATE ALL TRADES NECESSARY FOR THE INSPECTION(S). UPON COMPLETION SUBMIT FINAL, SIGNED NFPA-72 RECORD OF COMPLETION AND ALL AHJ APPROVAL DOCUMENTATION TO OWNER.

<u>SYMBOLS &amp;</u>
N:
DUNTED FIRE ALARM STROBE. DENOTES CANDELA RATING
DUNTED FIRE ALARM HORN/STROBE
DENOTES. CANDELA RATING
DUNTED FIRE ALARM HORN.
PULL STATION
SABLE SMOKE DETECTOR
OKE DETECTOR - RECEIVER
ORE DETECTOR - RECEIVER
OKE DETECTOR - TRANSMITTER

INEWEIGHTS SHALL REPRESENT

LIGHTER LINEWEIGHTS SHALL

DASHED LINEWEIGHTS SHALL ENT DEMO WORK.

## **FIRE ALARM ABBREVIATIONS**

ADA

ACT

ACT

AFG

ALM

AHJ

AWG

BPS

CD

CKT

CM

(C)

DD

DIA

DN

EC

EMT

EOL

(ER)

FACP

FAS

FASS

FFJ

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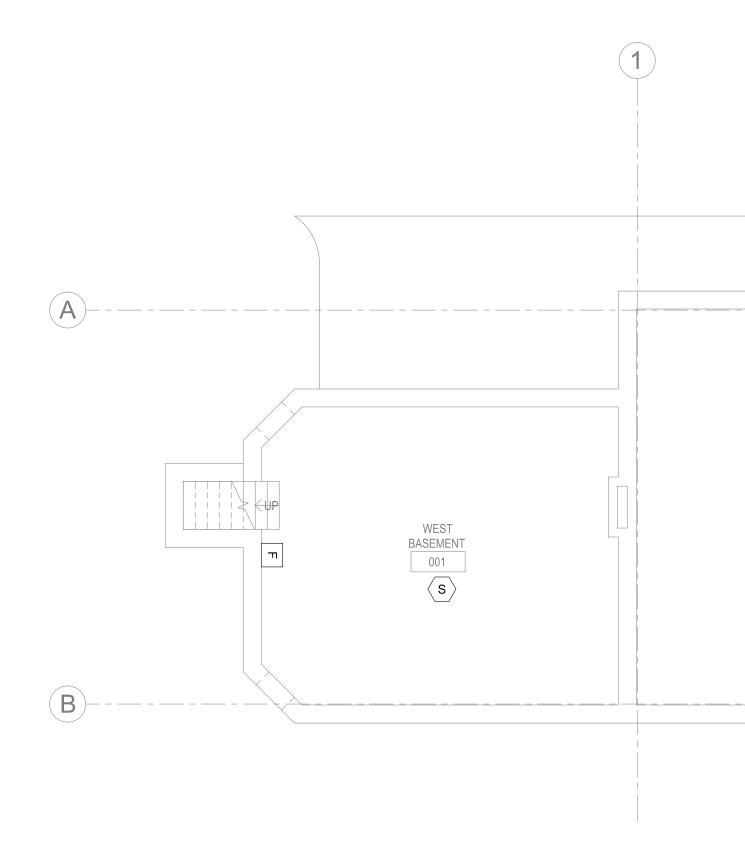
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DGP

ADAA

	AMERICANS WITH DISABILITIES
G	AMERICANS WITH DISABILITIES
	GUIDELINES
	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
	ALARM
	AUTHORITY HAVING JURISDICTION ACCESS PANEL
	AUTOPLEX LOOPS, 2 CONDUCTOR
	W/SHIELD
	ADDRESSABLE RELAY WIRE GAUGE
	BOOSTER POWER SUPPLY
	CANDELA CIRCUIT
	CONTACT MONITOR
	CEILING MOUNTED DUCT SMOKE DETECTOR
	DATA GATHERING PANEL
	DIAMETER DOWN
	DRAWING
	ELECTRICAL CONTRACTOR
	ELECTRICAL METALLIC TUBING END-OF-LINE RESISTOR
	EXISTING TO REMAIN
	ELEVATION EXISTING TO BE RELOCATED
	DEGREE FAHRENHEIT
	FIRE ALARM CONTROL PANEL FIRE ALARM SPEAKER
	FIRE ALARM SPEAKER / STROBE
	FIRE ALARM SYSTEM
	FIRE FIGHTER PHONE JACK
	FACTORY MUTUAL
	FIRE ALARM POWER-LIMITED PLENUM RATED (WIRE/CABLE)
	FLOW SWITCH
	FEET GENERAL CONTRACTOR
	HEAT DETECTOR
	INITIATING DEVICE CIRCUIT INTERNATIONAL FIRE CODE
	INCHES
	JUNCTION BOX NEW/PROPOSED
	NOTIFICATION APPLIANCE CIRCUIT
	NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION
	ASSOCIATION
4	NON-POWER LIMITED FIRE ALARM (WIRE/CABLE)
	NOT IN CONTRACT
-	NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING
	TECHNOLOGIES
	NOT IN SCOPE NOT TO SCALE
	POINT OF CONNECTION
	POINT OF DEMOLITION POWER-LIMITED FIRE ALARM
	(WIRE/CABLE)
	PRESSURE SWITCH EXISTING TO BE DEMOLISHED /
	REMOVED
	RELOCATED FROM EXISTING LOCATION
	SIGNALING LINE CIRCUIT SMOKE DETECTOR
	SPEAKER CIRCUIT
	STROBE CIRCUIT SECURITY SURVEILLANCE
	SQUARE FEET
	SUPERVISORY TROUBLE
	TAMPER SWITCH
	VOLTAGE - ALTERNATING
	CURRENT VOLTAGE - DIRECT CURRENT
	WEATHER PROOF

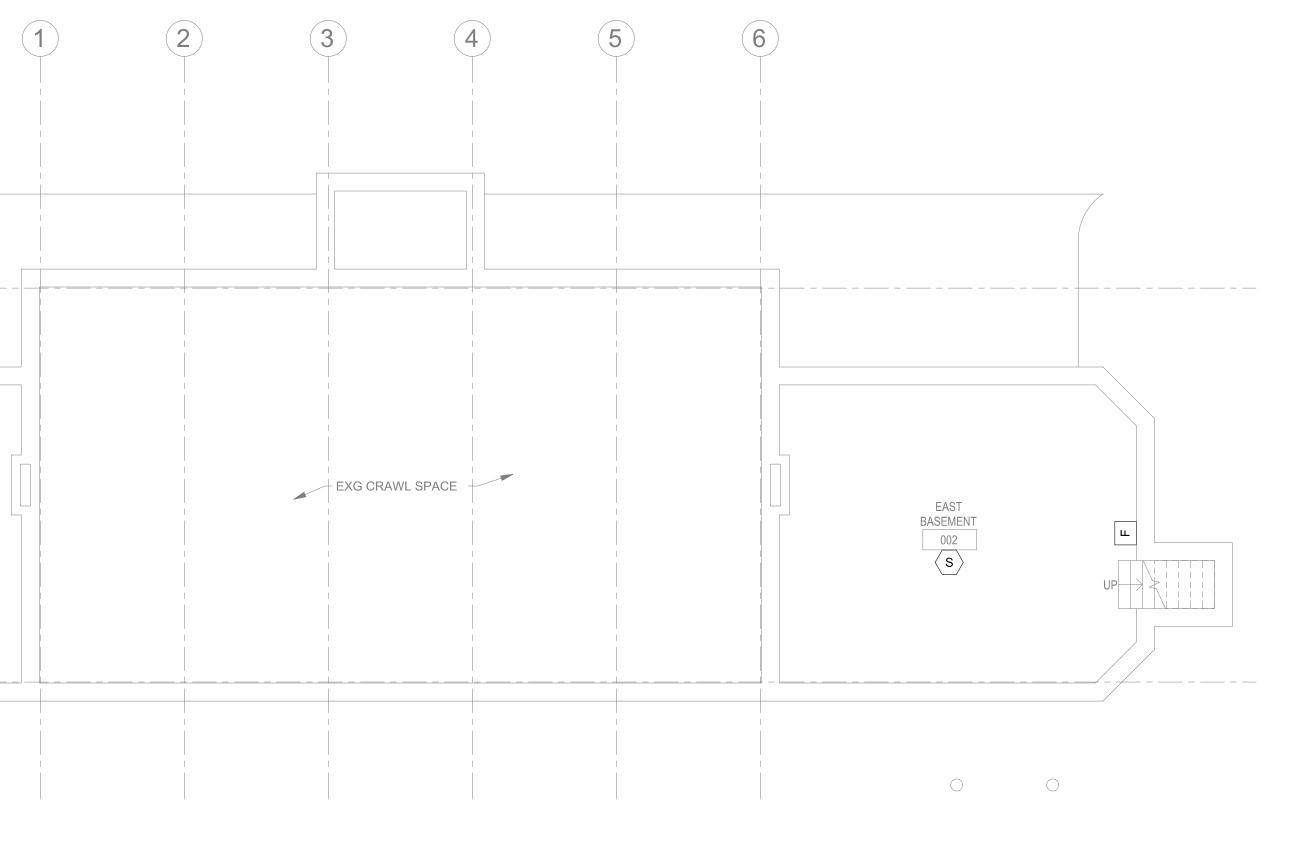
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- 2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- CONDITIONS. THERE IS NO FIRE ALARM DEMOLITION SCOPE ON THIS DRAWING.



AREA NOT IN SCOPE

1. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

3. THIS DRAWING IS SHOWN FOR REFERENCE ONLY TO INDICATE THE FIRE ALARM EXISTING

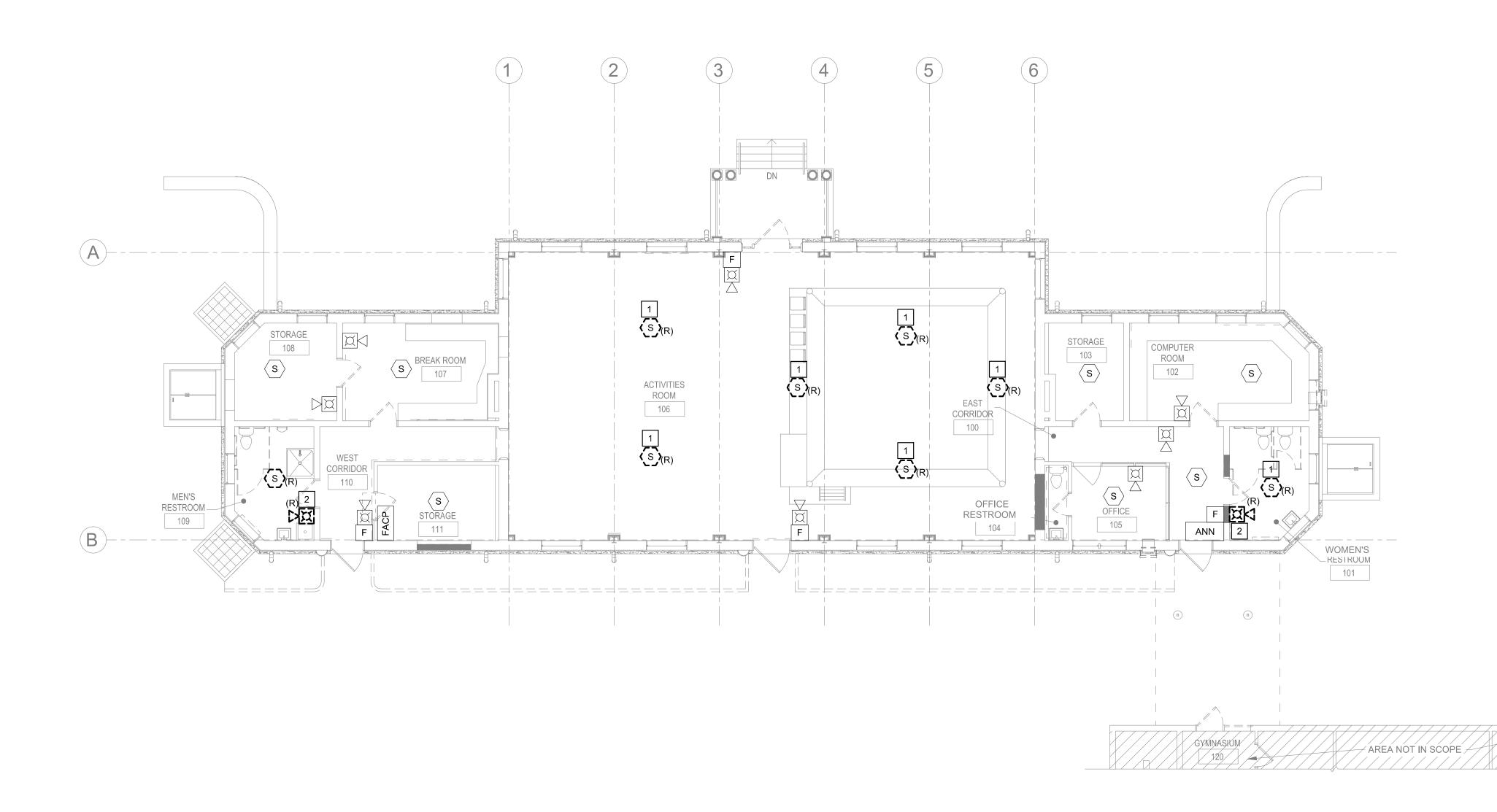
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CONSTRUCTION DOCUMENTS

8 4 0 8

SCALE: 1/8"=1'-0"

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1. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

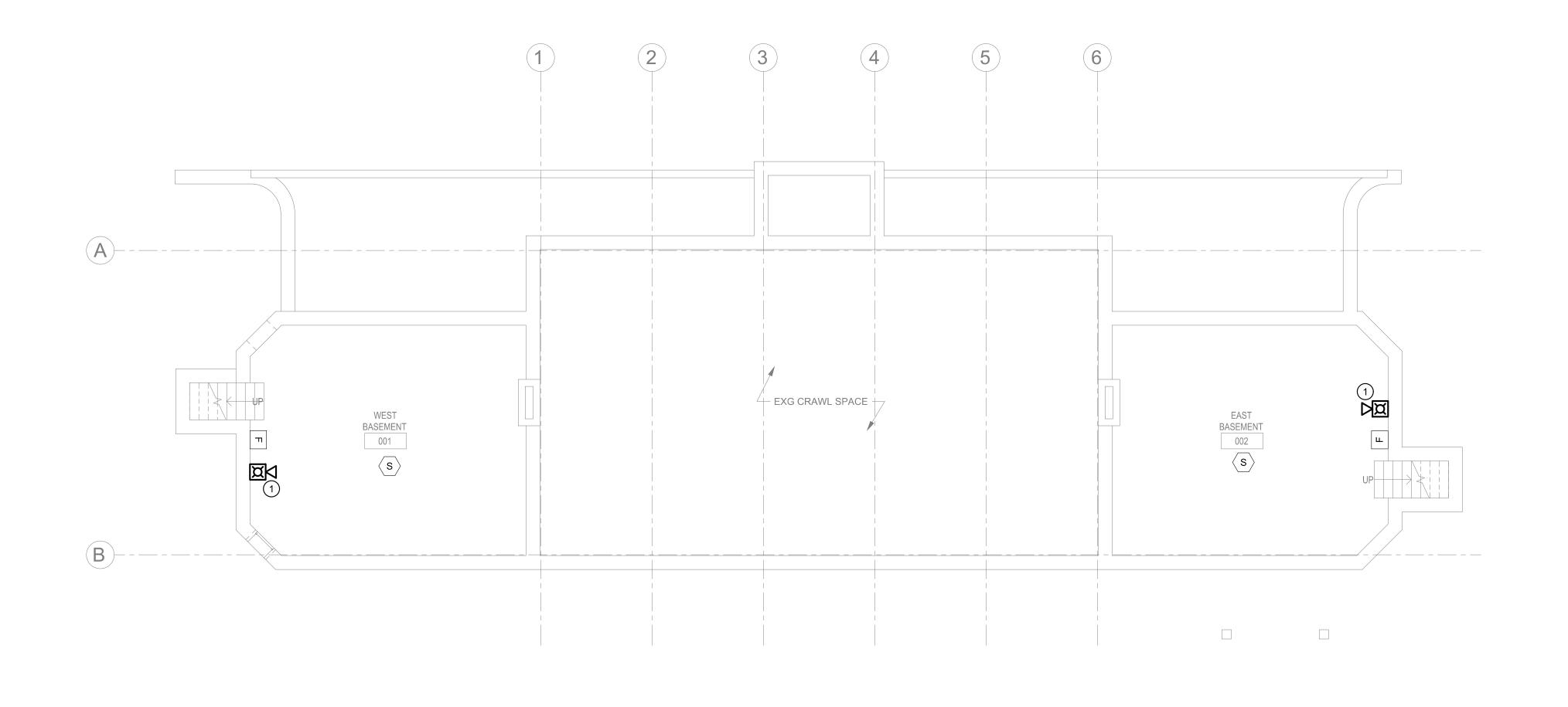
## KEYED NOTES:

8 4 0

SCALE: 1/8"=1'-0"

- 1 DEMOLISH EXISTING SMOKE DETECTOR. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX OR DEVICE TO REMAIN WHILE MAINTAINING CIRCUIT INTEGRITY.
- 2 DEMOLISH EXISTING NOTIFICATION APPLIANCES. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX OR APPLIANCE TO REMAIN WHILE MAINTAINING CIRCUIT INTEGRITY.

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1. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

## 2. EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

KEYED NOTES:

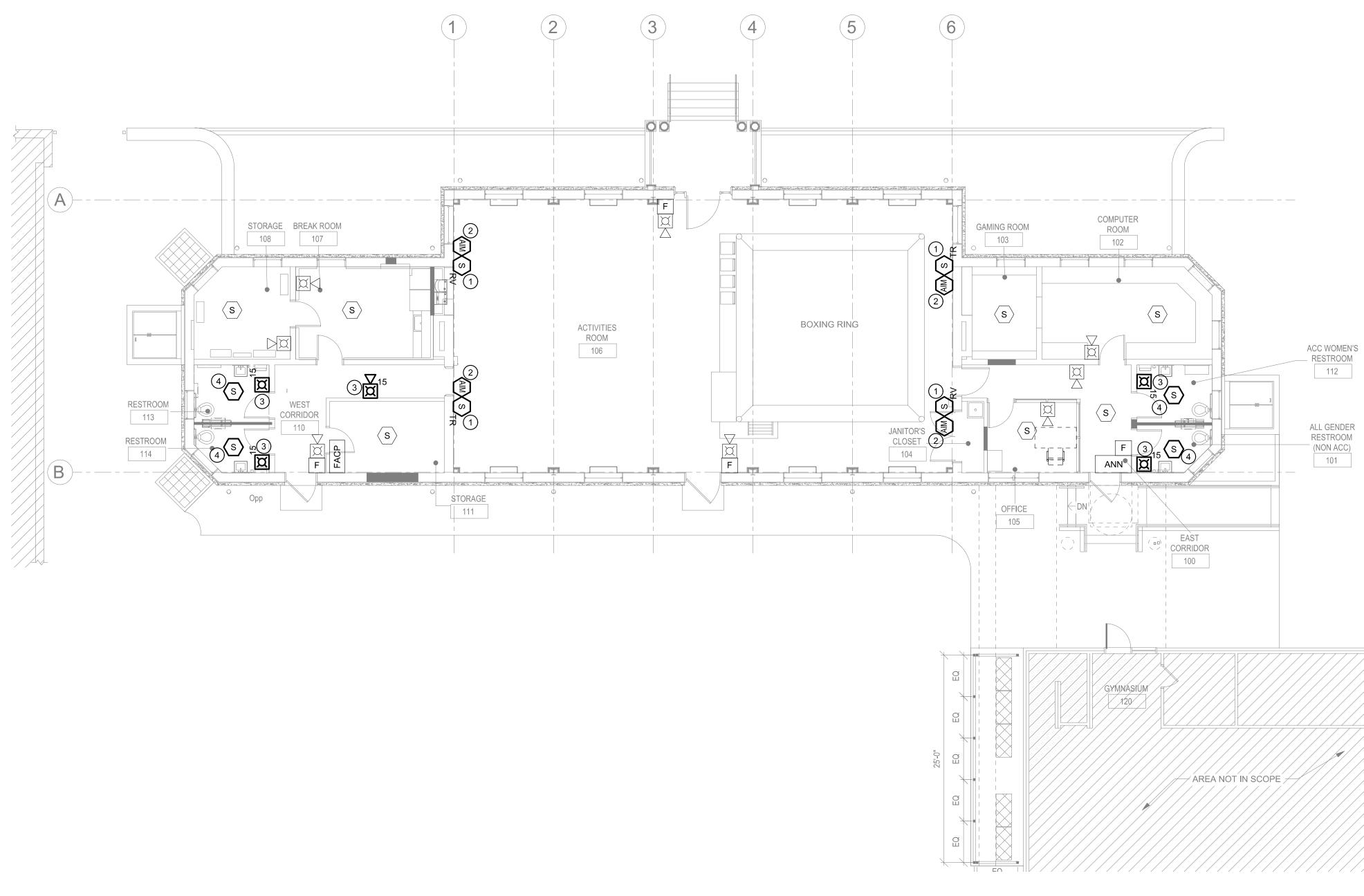
1 PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCE. PROVIDE WITH A PROTECTIVE GUARD.

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CONSTRUCTION DOCUMENTS

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- 1. REFER TO DRAWING FA-001 FOR FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. REFER TO DRAWINGS FA-500 AND FA-501 FOR ASSOCIATED DETAILS.
- 3. EXISTING FIRE ALARM SYSTEM SHALL REMAIN

## OPERATIONAL DURING CONSTRUCTION.

4. ALL FIRE ALARM FIELD DEVICES AND EQUIPMENT SHALL REQUIRE A PROTECTIVE GUARD.

## **KEYED NOTES:**

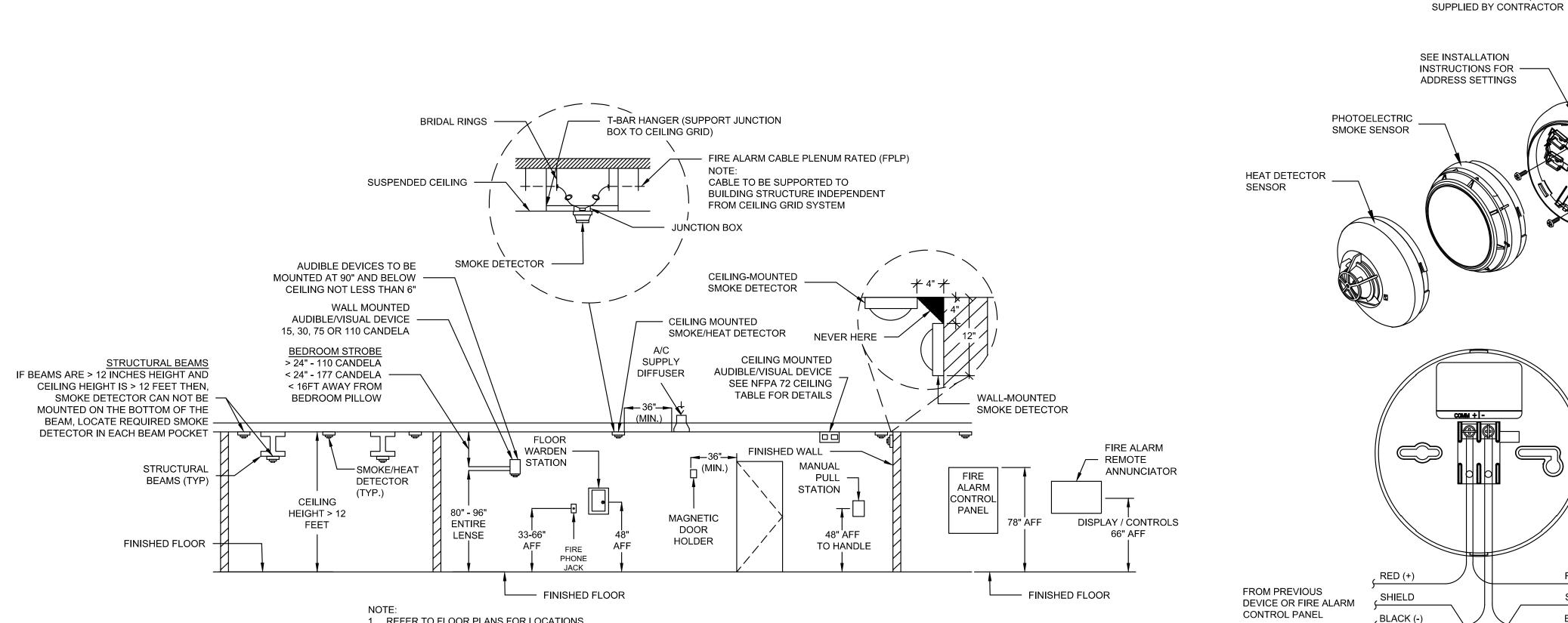
- 1 ALTERNATE TRANSMITTER AND RECEIVER / REFLECTOR DIRECTIONS. MOUNT BEAM SMOKE DETECTOR AND RECEIVER / REFLECTOR TO THE WALL AND ALIGN AT A HEIGHT TO BE ABOVE THE LARGE OPEN CEILING BEAMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE WITH A PROTECTIVE GUARD.
- 2 PROVIDE ADDRESSABLE DUAL INPUT MODULES AT EACH BEAM SMOKE DETECTOR TO MONITOR ALARM AND TROUBLE CONDITIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE WITH A PROTECTIVE GUARD.
- 3 PROVIDE NEW FIRE ALARM NOTIFICATION APPLIANCE PER THE NEW ARCHITECTURAL FLOOR PLAN. PROVIDE WITH A PROTECTIVE GUARD.
- 4 PROVIDE NEW SMOKE DETECTOR PER THE NEW ARCHITECTURAL FLOOR PLAN. PROVIDE WITH A PROTECTIVE GUARD.

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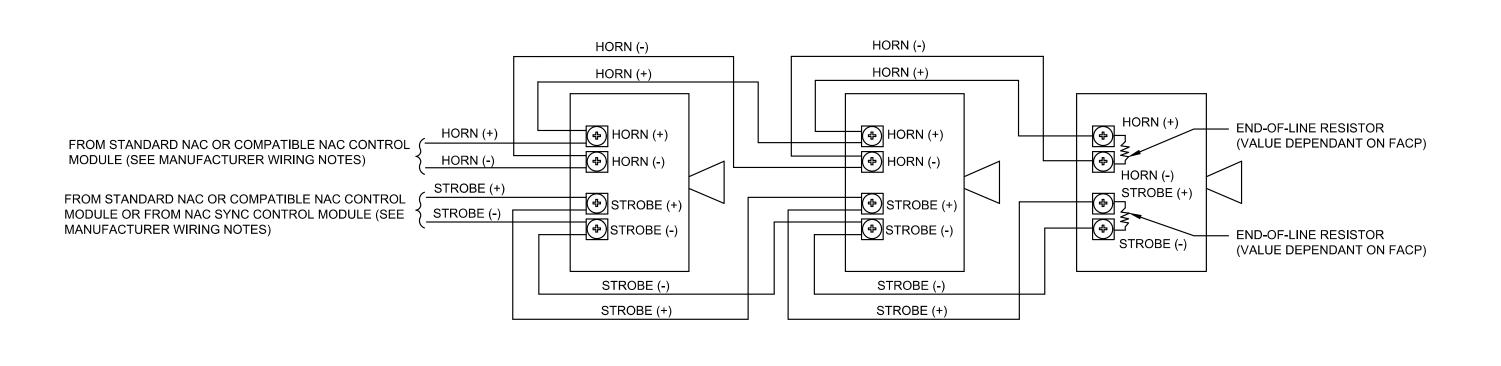
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<sup>1.</sup> REFER TO FLOOR PLANS FOR LOCATIONS.

4. FLOOR WARDEN STATION AND FIRE PHONE JACK TO BE LOCATED TEN FEET AWAY FROM SPEAKER AND HORN.

### STANDARD FIRE ALARM DEVICE MOUNTING HEIGHTS NOT TO SCALE 、FA-500/



## **TYPICAL HORN/STROBE WIRING CONFIGURATION**

、FA-500ノ NOT TO SCALE

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### **GENERAL NOTES:**

### 1. REFER TO SHEET FA-001 FOR FIRE ALARM

INTENDED TO BE THE ACTUAL DEVICE OR WITH INSTALLATION INSTRUCTIONS.

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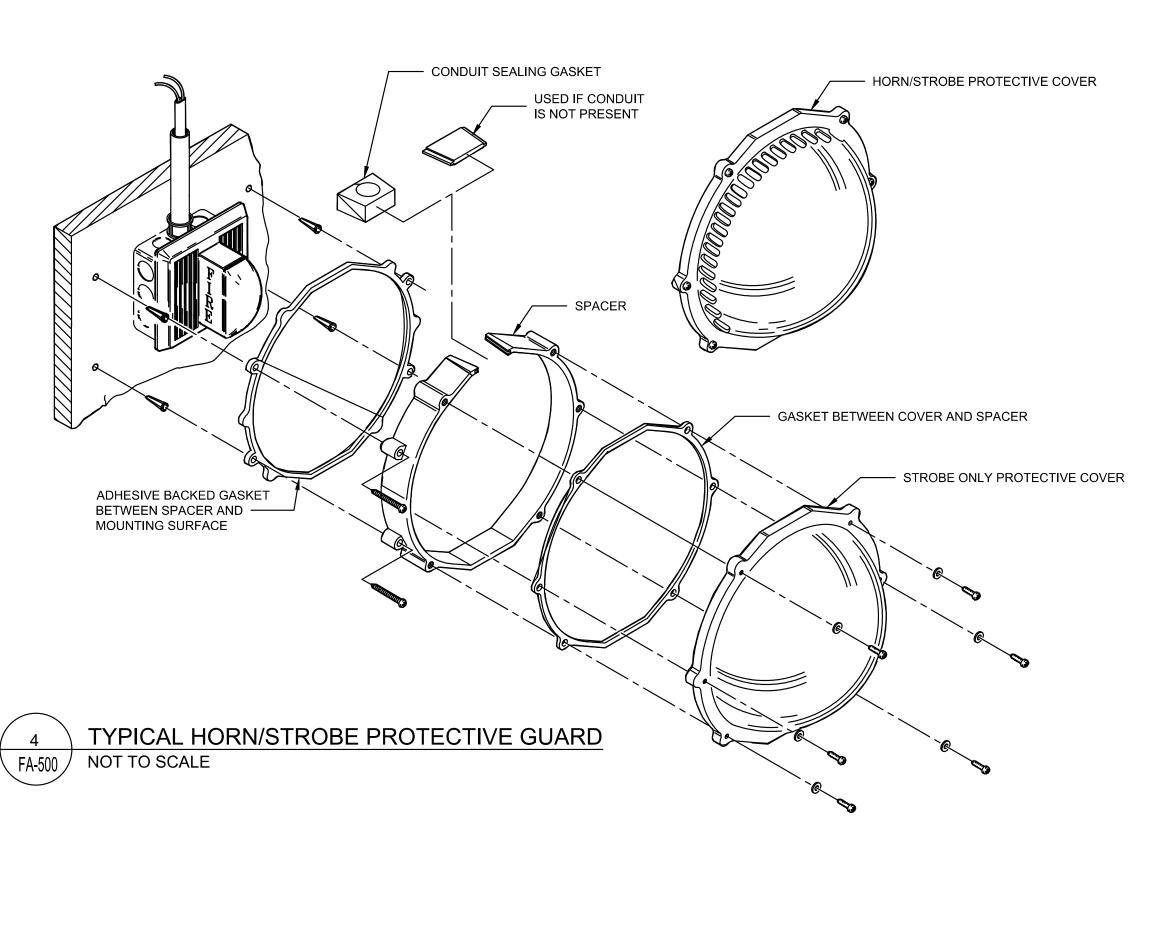
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4" X 1 1/2" DEEP OCTAGONAL OR 4"

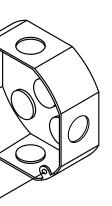
SQUARE X 1 1/2" DEEP, WHICH REQUIRES AN ADAPTER PLATE (6-3/8" X 1/4") BOX



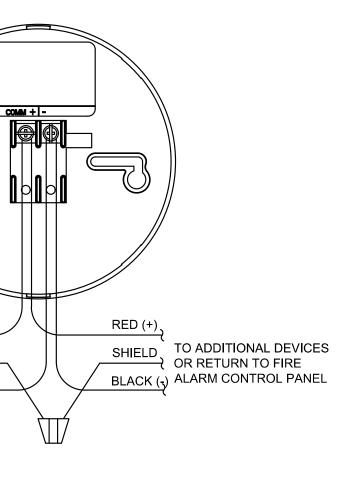


GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

2. DETAILS SHOWN ARE TYPICAL IN NATURE AND NOT EQUIPMENT, DETAILS ARE INCLUDED TO PROVIDE INTENT FOR INSTALLATION AND OPERATION. FIRE ALARM VENDOR SHALL SUPPLY REQUIRED DETAILS

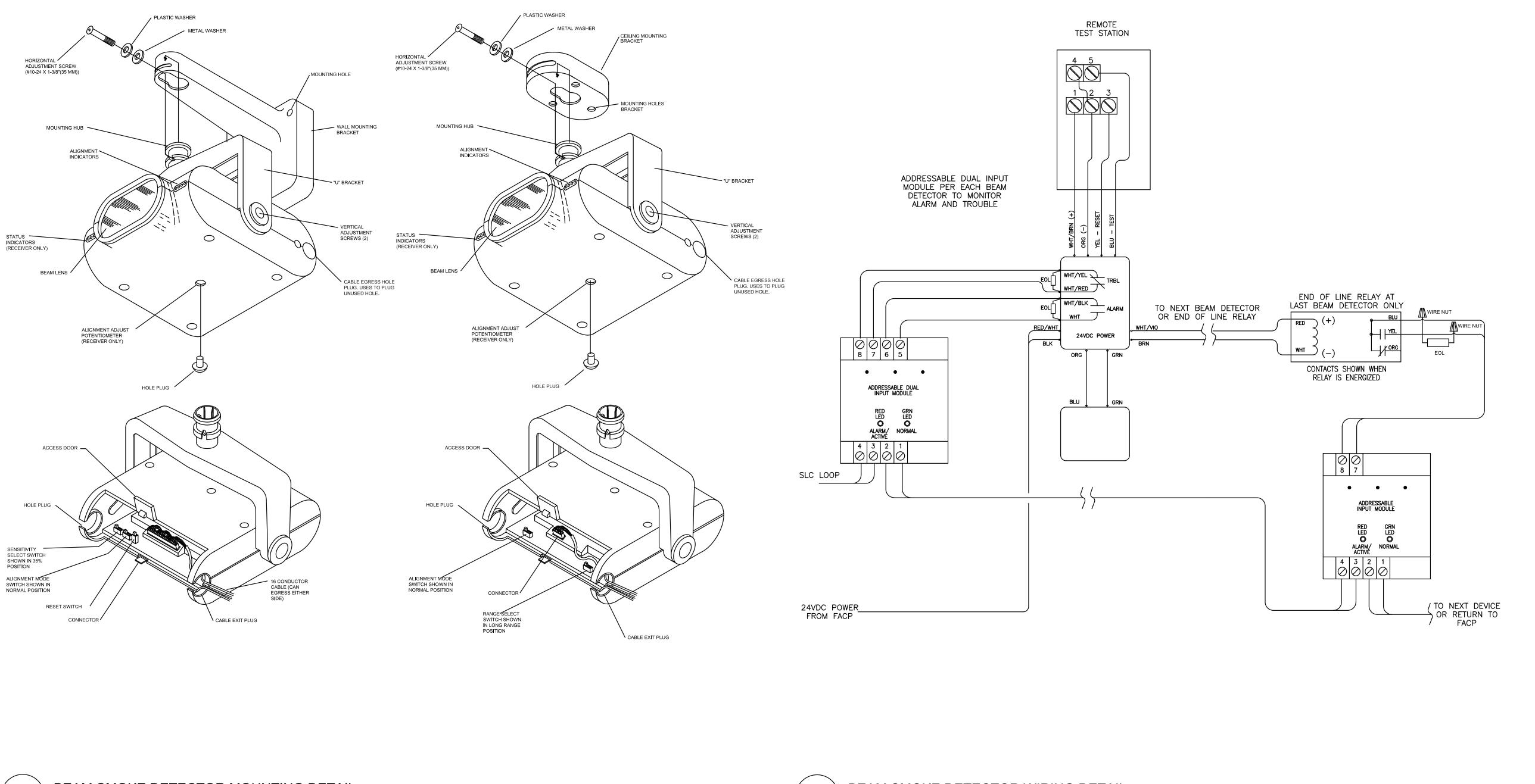


FOR FLUSH MOUNTING: BACK BOX TO BE FLUSH OR RECESSED 1/4" MAXIMUM



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<sup>2.</sup> ALL FINAL MOUNTING HEIGHT MUST COMPLY WITH NFPA 72 AND AUTHORITY HAVING JURISDICTION. 3. ALL INSTALLATION TO BE IN ACCORDANCE WITH MFG. RECOMMENDATIONS.





BEAM SMOKE DETECTOR MOUNTING DETAIL NOT TO SCALE

## GENERAL NOTES:

WITH INSTALLATION INSTRUCTIONS.



### BEAM SMOKE DETECTOR WIRING DETAIL NOT TO SCALE

1. REFER TO SHEET FA-001 FOR FIRE ALARM GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

2. DETAILS SHOWN ARE TYPICAL IN NATURE AND NOT INTENDED TO BE THE ACTUAL DEVICE OR EQUIPMENT. DETAILS ARE INCLUDED TO PROVIDE INTENT FOR INSTALLATION AND OPERATION. FIRE ALARM VENDOR SHALL SUPPLY REQUIRED DETAILS

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# CIRCUIT SCHEDULE

CIRCUIT ID	PATHWAY DESCRIPTION	WIRE TYPE	MINIMUM CONDUIT SIZE	OUTDOOR UNDERGROUND	OUTDOOR ABOVE GROUND - NON CORROSIVE AREA	OUTDOOR ABOVE GROUND - CORROSIVE AREA	INDOOR	PATHWAY CLASS	MINIMUM NFPA 72 (2010 ED.) SURVIVABILITY REQUIREMENT
А	SIGNALING LINE CIRCUITS (SLC)	2#16 AWG TWISTED SHEILDED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	x	LEVEL 0
В	FIBER OPTIC NETWORK	12-STRAND SINGLE MODE FIBER	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
С	DATA COMMUNICATIONS BETWEEN PANELS		3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
D	DIGITAL AUDIO COMMUNICATIONS BETWEEN PANELS	2#14 AWG TWISTED SHIELDED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
E	AUDIBLE/VISUAL CIRCUITS	2#14 AWG TWISTED SHIELDED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
F	STROBE CIRCUITS	2#14 AWG TWISTED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
G	CONTROL CIRCUITS	2#16 AWG TWISTED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	N/A	LEVEL 0
н	MONITORING CIRCUITS	2#16 AWG TWISTED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
I	ANNUNCIATOR CIRCUIT	2#14 AWG TWISTED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
J	PANEL AC POWER	2#12 TWISTED WITH GROUND	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	N/A	LEVEL 0
к	24V DC AUXILIARY POWER	2#14 AWG TWISTED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	N/A	LEVEL 0
L	SYNC COMMUNICATIONS BETWEEN PANELS	2#12 AWG TWISTED SHIELDED	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	N/A	LEVEL 0
М	DATA COMMUNICATIONS BETWEEN PANELS UNDERGROUND	2-STRANDS SINGLE MODE FIBER	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0
Ν	DIGITAL AUDIO COMMUNICATIONS BETWEEN PANELS UNDERGROUND	2-STRANDS SINGLE MODE FIBER	3/4" C	PVC	RGS	RGS W/ PVC COATING	RGS	В	LEVEL 0

1 FA-502 NOT TO SCALE

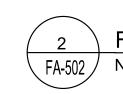
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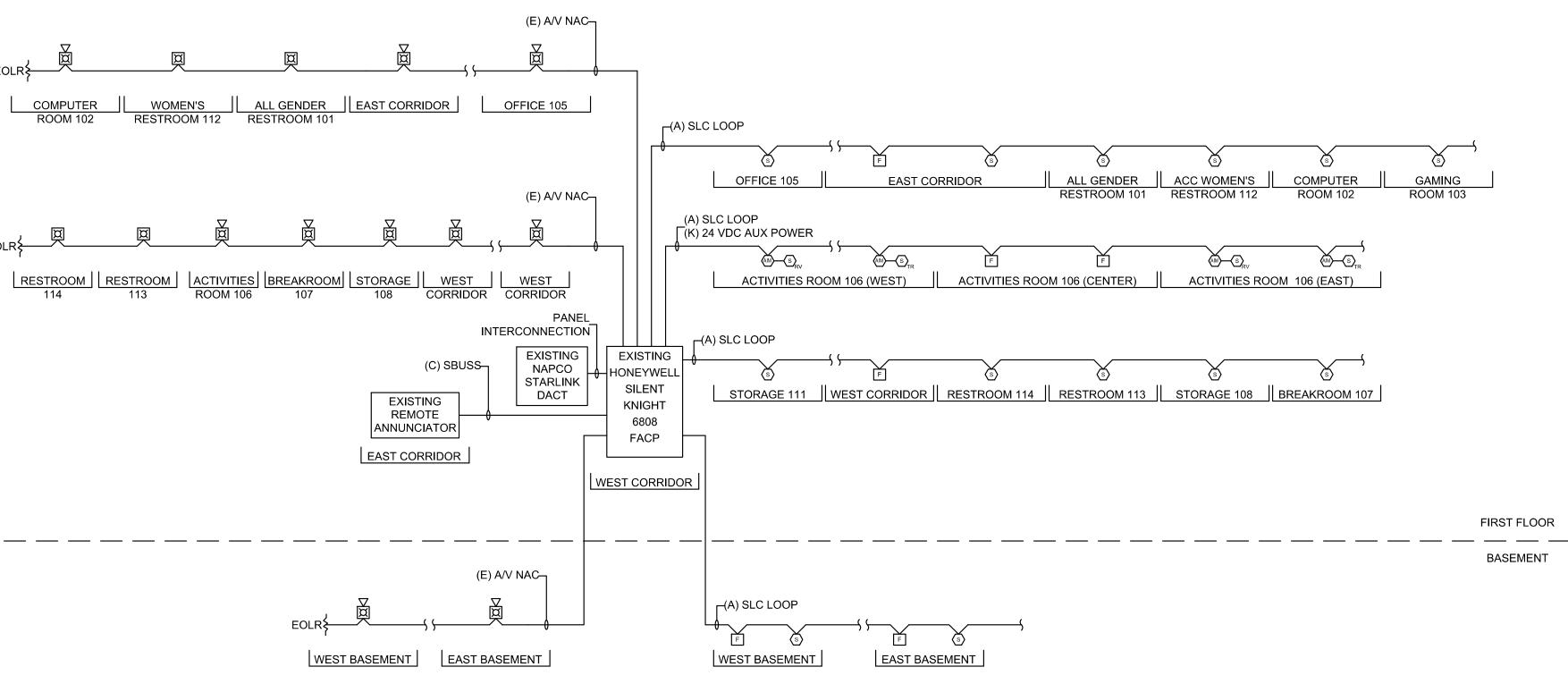
### **GENERAL NOTES:**

1. RISER DIAGRAM IS DIAGRAMMATIC AND INTENDED TO SHOW THE CONNECTIVITY BETWEEN ALL CONTROL EQUIPMENT AND FIELD DEVICES. 2. THE CONTRACTOR SHALL PROVIDE A COMPLETE

RISER DIAGAM AS PART OF THE SHOP DRAWING

PHASE. 3. A FINAL UPDATED VERSION OF THE AS-BUILT RISER DIAGRAM SHALL BE INCLUDED WITH CLOSE-OUT DOCUMENTATION PER SPECIFICATIONS.

## FIRE ALARM CIRCUIT AND CONDUIT SCHEDULE



FIRE ALARM PARTIAL DIAGRAMMITIC RISER DIAGRAM

FIRST FLOOR

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