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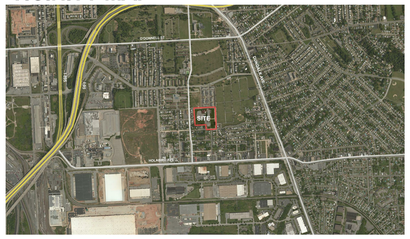
VICINITY MAP



ABBREVIATIONS

Above finished floor	AFF	Footing	FTG	Project	PROJ
Acoustic	ACST	Foundation	FDN	Property	PROP
Acoustic Panel Ceiling	APC	Furnish(ed), furniture	FURN	Public Address	PA
Addendum	ADD	Furring	FURR	Quality control	QC
Alternate	ALT	Gage (gauge)	GA	Quality	QUAL
Aluminum	AL	Galvanize(d)	GALV	Quantity	QTY
Angle	L	Galvanized Iron	GALVI	Quarry Tile	QT
Approximate	APPROX	Glazed Wall Tile	GWT	Radius	RAD
Architecture, architectural	ARCH	Grab Bar	GB	Rain Leader	RL
Asbestos	ASB	Grade	GR	Received	RCVD
Asphalt	ASPH	Gravel	GVL	Receptacle	RCPT
Assistant	ASST	Gypsum Wallboard	GWB	Receptionist	RECPT
Association	ASSN	Gypsum	GYP	Recess(ed)	REC
Automatic	AUTO	Handicapped	HC	Refer, reference	REF
Average	AVG	Hardware	HDW	Refrigerate, refrigerator	REFR
Base plate	BP	Heating ventilating and air conditioning	HVAC	Reinforce	REINF
Basement	BSMT	Height	HGT	Reinforced concrete	RC
Beam	BM	High Point	HPT	Remove	RMV
Bearing	BRG	High Performance	HP	Repair	RPR
Bedroom	BR	High Performance Coating	HPC	Required	REQD
Benchmark	BM	Hollow Metal	HM	Revise, revision	REV
Board	BD	Horizontal	HORIZ	Right hand	RH
Boiler	BLR	Include(d), inclusive	INCL	Road	RD
Bottom	BOT	Incorporated	INC	Roof Drain	RD
Brick	BRK	Information	INFO	Roof	RF
Building line	BL	Inside diameter	ID	Roofing	RFG
Building	BLDG	Install(ed), installation	INSTL	Room	RM
Built-up-roof	BUR	Insulation	INSUL	Rubber tile floor	RTF
Cabinet	CAB	Interior	INT	Rubber	RBR
Carpet	CPT	Janitor	JAN	Schedule	SCHED
Catalog	CAT	Joint	JT	Schematic	SCHEM
Ceiling height	CH	Joist	J, JST	Section	SECT
Ceiling	CLG	Junction box	JB	Service	SVCE
Center	CTR	Knock down	KD	"Sheet, sheeting"	SHT
Centerline	CL	Laboratory	LAB	Shower	SH
Ceramic Tile	CT	Lavatory	LAV	Siding	SDG
Ceramic	CER	Left Hand	LH	Similar	SIM
Chalkboard	CB	Left	L	Slope	SL
Clear	CLR	Length	LG	Sound-transmission class	STC
Closet	CLO	Level	LVL	South	S
Coated	CTD	Light	LT	Speaker	SPKR
Cold rolled	CR	Machine	MACH	Specification	SPEC
Column	COL	Maintenance	MAINT	Sprinkler	SPR
Company	CO	Manager	MGR	Square	SQ
Composition	COMP	Manual	MNL	Stainless steel	SS
Concrete Masonry Unit	CMU	Manufacturing	MFG	Standard	STD
Concrete	CONC	Markerboard	MB	Standpipe	SP
Construction joint	CJ	Masonry opening	MO	Steel	STL
Construction	CONSTR	Masonry	MSNRY	Storage	STOR
"Continue, Continuous"	CONT	Master bedroom	MBR	Structural Glazed Facing Tile	SGFT
Corridor	CORR	Material	MATL	Structural, structure	STRUCT
Countersink	CSK	Maximum	MAX	Substitute	SUBST
Cubic	CU	Mechanical	MECH	Surface	SURF
Curve(d)	CRV	Membrane	MEMB	Suspend(ed)	SUSP
Dampproofing	DP	Men	M	Switch	SW
Degree	DEG	Metal	MET, MTL	Symmetrical	SYM
Department(al)	DEPT	Mezzanine	MEZZ	System	SYS
Detail	DET	Minimum	MIN	Tackboard	TB
Diagonal	DIAG	Mirror	MIR	Tackstrip	TS
Diameter	DIA	Miscellaneous	MISC	Telephone	TEL
Dimension	DIM	Mounted	MTD	Television	TV
Dishwasher	DW	Mounting	MTG	Temporary	TEMP
Dispenser	DISP	Necessary	NEC	Terrazzo	TER
Door	DR	Noise-reduction coefficient	NRC	Thick	THK
Double	DBL	Nominal	NOM	Through	THRU
Double-hung	DH	Non Combustible	NC, NONCOM	Toilet	T
Down	DN	North	N	Tongue and groove	T&G
Downspout	DS	Not in Contract	NIC	Top and bottom	T&B
Drain	DR	Not to scale	NTS	Top chord	TC
Drawing	DWG	Not available	NA	Top of Masonry Parapet	TMP
Each	EA	Number	NO	Top of Bearing	TOFB
East	E	Office	OFF	Top of Steel	T.O.S.
Electric Water Cooler	EWC	On center	OC	Topping	TOPG
"Electric, electrical"	ELEC	Opening	OPNG	Total	TOT
Elevation	EL	Opposite	OPP	Transformer	XFMR
Elevator	ELEV	Outside diameter	OD	Transom	TR
Engineer	ENGR	Overall	OA	Transparent	TRANS
Entrance	ENTR	Overhead	OVHD	Tread	TRD
Equal	EQ	Page	P	Threshold	THRESH
Equipment	EQUIP	Painted	PTD	Typical	TYP
Exhaust	EXH	Pair	PR	Underground	UG
Existing	EXIST	Panel	PNL	Underwriters Laboratories	UL
Expansion joint	EXP JT	Partition	PTN	Unfinished	UNF
Exposed	EXP	Percent	PCT	Unit Ventilator	UV
Exterior	EXT	Perforate(d)	PERF	Unless Otherwise Noted	UON
Fabricate	FAB	Permanent	PERM	Urinal	UR
Face of Stud	F. OF S.	Perpendicular	PERP	US Gypsum Company	USG
Fan Coil Unit	FCU	Piece	PC	Vertical	VERT
Fiberglass-reinforced plastics	FRP	Plastic Laminate	PLAM	Vestibule	VEST, V
Finish	FIN	Plastic Laminate	PLAS LAM	Vinyl Reducing Strip	VRS
Finished Floor	FF	Plate	PL	Vinyl Composite Tile	VCT
Fire Extinguisher	FE	Plumbing	PLMB	Vinyl asbestos tile	VAT
Fire Extinguisher & Cabinet	FEC	Plywood	PLYWD	Wardrobe	WARD
Fire Retardant Treated	FRT	Point	PT	Water closet	WC
Fireproof	FPRF	Polyvinyl chloride	PVC	Waterproof	WP
Fixture	FIXTR	Precast	PRCST	Weight	WT
Flange	FLG	Prefabricated	PREFAB	Welded	WLD
Flashing	FL	Preliminary	PRELIM	Welded Wire Mesh	WWM
Floor	FL	Preparation, prepare	PREP	With	W/
Floor drain	FD	Program	PRGM	Without	W/O
Flooring	FLG	Projection Screen	PS	Women	W
Fluorescent	FLUOR			Wood	WD
				Wrought Iron	WI

SYMBOLS OF MATERIALS

EARTH
GRAVEL
CONCRETE
CONCRETE MASONRY UNITS
SOLID CONCRETE MASONRY UNITS
BRICK
WOOD-FINISHED
WOOD ROUGH
PLYWOOD
GYPSUM BOARD
ACOUSTIC TILE
STEEL - LARGE SCALE
ALL METALS - SMALL SCALE
CAST STONE
GLASS - LARGE SCALE
BATT INSULATION
RIGID INSULATION
CERAMIC TILE
CARPET

DRAWING KEY

GRID LINES
DETAIL NUMBER / SIM / SHEET NUMBER — SECTIONS
DETAIL NUMBER / SIM / SHEET NUMBER — DETAILS IN PLAN/SECTION
DETAIL NUMBER / SHEET NUMBER — INTERIOR ELEVATION
ROOM NAME B101a — ROOM NUMBER
REVISION: TYPE # A.S.I.P.R./C.C.D./ADD.
B101a — DOOR NO. ON PLAN
DEPT. # — CASEWORK (FURNISHING PLANS ONLY)
H.M. FRAME NO. ON PLAN
ALUM. FRAME/WINDOW TYPE
A3 — WALL TYPE

HOLABIRD ACADEMY ELEMENTARY / MIDDLE SCHOOL CITY OF BALTIMORE, MD

1500 IMLA STREET, BALTIMORE, MD 21224

BID SET
03/13/2017

Architectural & Structural

BALTIMORE CITY PUBLIC SCHOOLS

PSC 30.240.15/17

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200 E NORTH AVENUE
BALTIMORE, MD 21202

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FOODSERVICE CONSULTANT:
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7906 MACARTHUR BLVD
CABIN JOHN, MD 20818
(301) 320-9200

BUILDING AREA	
MECH BASEMENT	1015 SF
FIRST FLOOR	61994 SF
SECOND FLOOR	31323 SF
Grand total	94332 SF

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
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GRIMM AND PARKER

GP# 21553

TITLE SHEET
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

TS-1H
03/13/2017
BID SET

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LIST OF DRAWINGS

0
TS-1H TITLE SHEET
TS-2H LIST OF DRAWINGS

CIVIL
C-1.00H EXISTING CONDITIONS/DEMOLITION PLAN
C-2.00H PROPOSED SITE PLAN
C-3.00H SITE DETAILS
C-3.01H SITE DETAILS
C-4.00H PAVING, STRIPING & SIGNAGE PLAN
C-5.01H UTILITY PLAN
C-5.02H UTILITY PROFILES
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C-6.00H EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
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C-6.03H EROSION & SEDIMENT CONTROL NOTES
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C-6.06H EROSION AND SEDIMENT CONTROL DRAINAGE AREA MAPS - PHASE 1
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C-7.03H STORMWATER MANAGEMENT PLAN
C-7.04H STORMWATER MANAGEMENT FACILITY 1
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EL-1.2 LIGHTING - FIRST FLOOR AREA B
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ELECTRICAL LIGHTING DEMO
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E-8.1H ROOF LIGHTNING PROTECTION SYSTEM PLAN
E-8.2H LIGHTINING PROTECTION DETAILS
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TECHNOLOGY
T-0.0 TECHNOLOGY SYMBOLS & NOTES
T-0.1 OVERALL PLAN - FIRST FLOOR
T-0.2 OVERALL PLAN - SECOND FLOOR
T-1.0H HOLABIRD SITE PLAN
T-1.1 PARTIAL FIRST FLOOR PLAN - AREA A
T-1.2 PARTIAL FIRST FLOOR PLAN - AREA B
T-1.3 PARTIAL FIRST FLOOR PLAN - AREA C
T-1.4 PARTIAL SECOND FLOOR PLAN - AREA A
T-1.5 PARTIAL SECOND FLOOR PLAN - AREA B
T-1.6 PARTIAL SECOND FLOOR PLAN - AREA C
T-5.0 MAIN TELECOM ROOM DETAILS
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SECURITY
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TY-1.5 PARTIAL SECOND FLOOR SECURITY PLAN - AREA B
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PHOTOVOLTAICS
W-0.1 PHOTOVOLTAICS - DETAILS & LEGEND
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W-1.1A PHOTOVOLTAICS - ROOF AREA A
W-1.1B C PHOTOVOLTAICS - ROOF AREA B & C
W-2.0 PHOTOVOLTAICS - FLOOR PLANS

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LIST OF DRAWINGS

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

TS-2H

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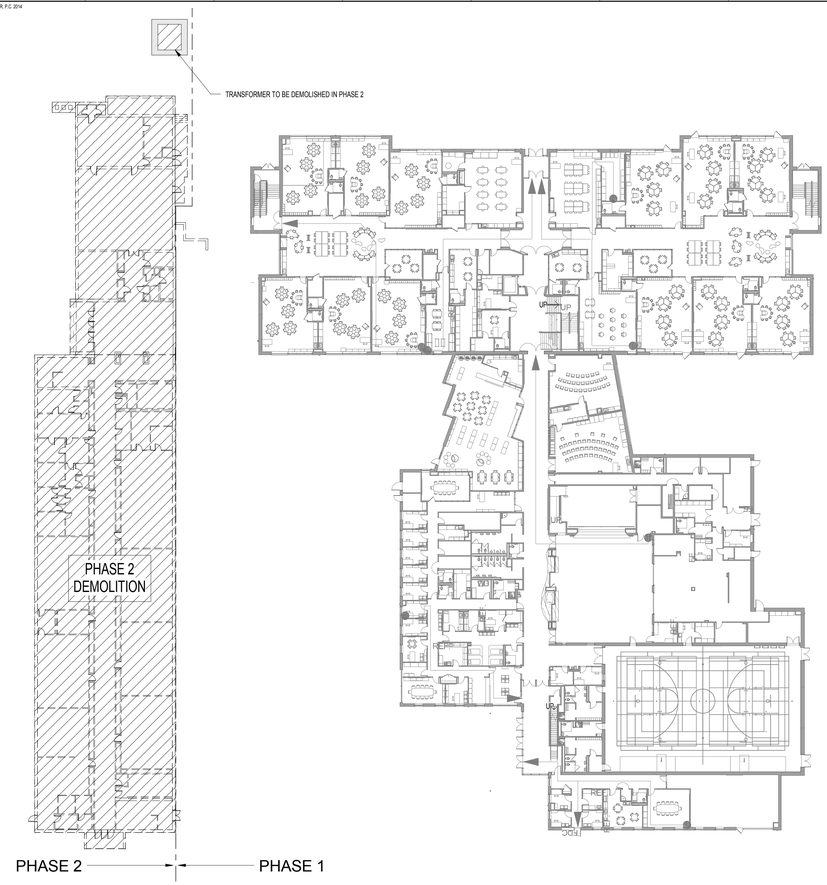
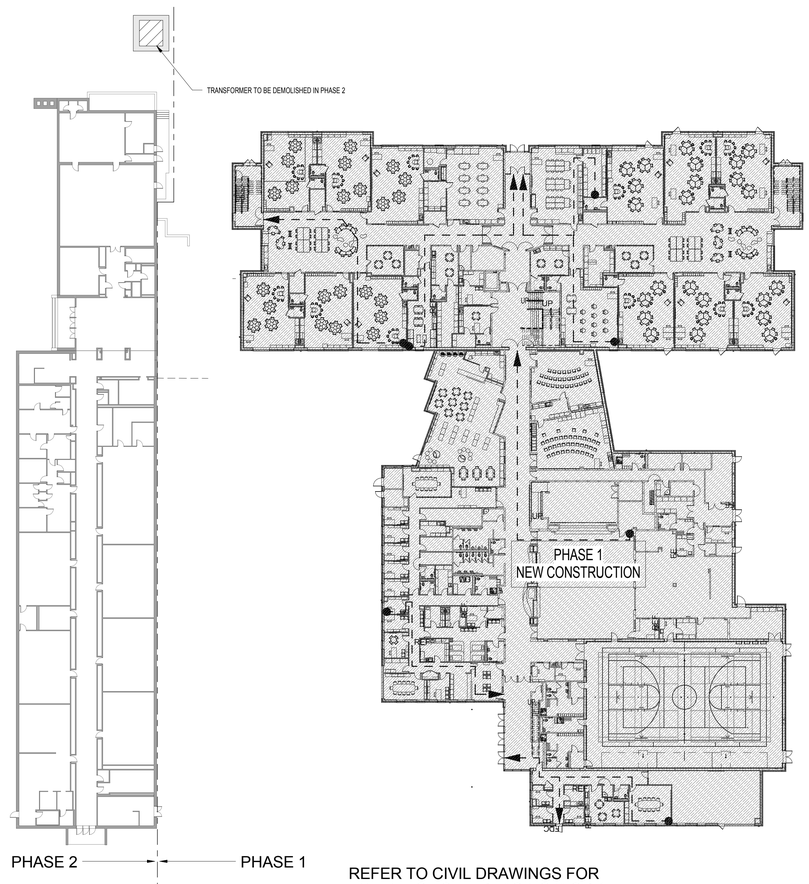


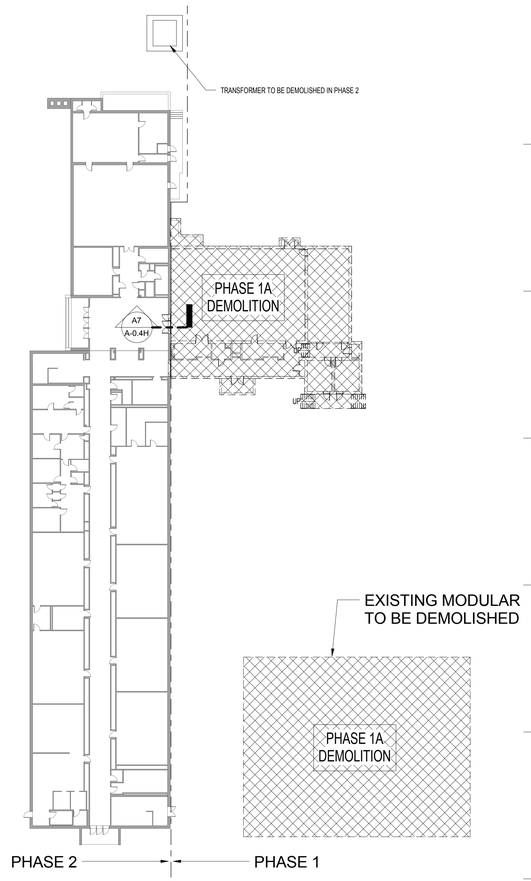
REFER TO CIVIL DRAWINGS FOR
EXTENT OF SITE PHASING WORK

F18 PHASE 2 - DEMOLITION
1" = 30'-0"



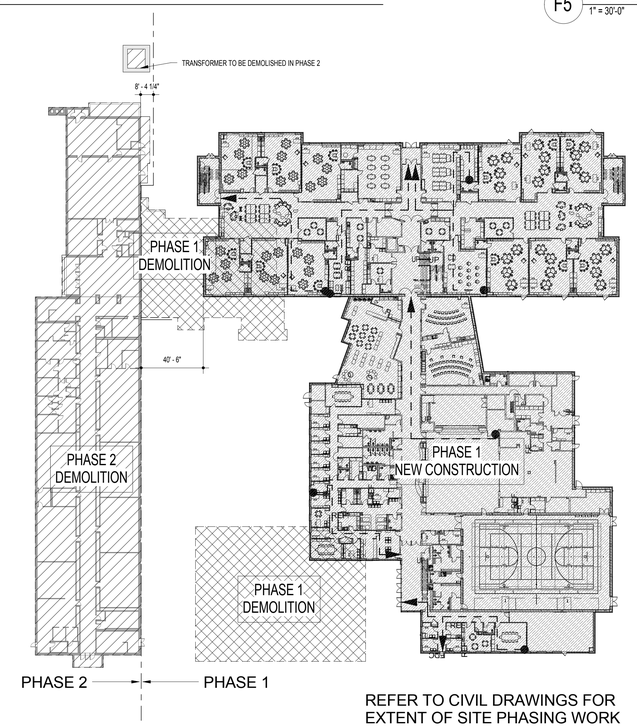
REFER TO CIVIL DRAWINGS FOR
EXTENT OF SITE PHASING WORK

F11 PHASE 1B - NEW CONSTRUCTION
1" = 30'-0"



REFER TO CIVIL DRAWINGS FOR
EXTENT OF SITE PHASING WORK

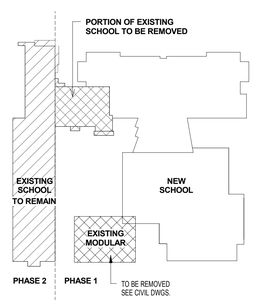
F5 PHASE 1A - DEMOLITON
1" = 30'-0"



REFER TO CIVIL DRAWINGS FOR
EXTENT OF SITE PHASING WORK

A9 OVERALL PHASING PLAN
1" = 40'-0"

DEMOLITION KEY PLAN



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PHASING PLAN

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.1H

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FIRE ZONE 1 - FIRST FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ACCESSORY STORAGE / MECHANICAL EQUIPMENT					
STORAGE	148 SF	300 SF	GROSS	0	0.1
OUTDOOR STORAGE	88 SF	300 SF	GROSS	0	0.1
MECH	110 SF	300 SF	GROSS	0	0.1
STORAGE	95 SF	300 SF	GROSS	0	0.1
ELEC	94 SF	300 SF	GROSS	0	0.1
STORAGE	116 SF	300 SF	GROSS	0	0.1
LAUNDRY	85 SF	300 SF	GROSS	0	0.1
FURN. STORAGE	202 SF	300 SF	GROSS	1	0.1
PANTRY	96 SF	300 SF	GROSS	0	0.1
STORAGE	335 SF	300 SF	GROSS	1	0.2
STORAGE	148 SF	300 SF	GROSS	0	0.1
FIRE PUMP SVC.	106 SF	300 SF	GROSS	0	0.1
PANTRY	112 SF	300 SF	GROSS	0	0.1
PLATFORM STORAGE	108 SF	300 SF	GROSS	0	0.1
ELEC	287 SF	300 SF	GROSS	1	0.2
ELEC	77 SF	300 SF	GROSS	0	0.1
OUTDOOR STORAGE	86 SF	300 SF	GROSS	0	0.1
CAN WASH	46 SF	300 SF	GROSS	0	0.0
STORAGE	28 SF	300 SF	GROSS	0	0.0
HEAD END	221 SF	300 SF	GROSS	1	0.1
CENTRAL STORAGE	169 SF	300 SF	GROSS	1	0.1
WATER SVC.	124 SF	300 SF	GROSS	0	0.1
RECEIVING	194 SF	300 SF	GROSS	1	0.1
				10	2.0

FIRE ZONE 1 - FIRST FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ASSEMBLY (CONCENTRATED)					
COMMUNITY CENTER	1175 SF	7 SF	NET	168	33.6
GYM	5929 SF	7 SF	NET	847	169.4
DINING	2525 SF	7 SF	NET	361	72.1
				1376	275.1
ASSEMBLY (UN-CONCENTRATED)					
CONFERENCE	318 SF	15 SF	NET	21	4.2
CONFERENCE	257 SF	15 SF	NET	17	3.4
CONFERENCE	404 SF	15 SF	NET	27	5.4
WAITING	273 SF	15 SF	NET	18	3.6
				83	16.7
BUSINESS AREAS					
WORKROOM	186 SF	100 SF	GROSS	2	0.4
GUIDANCE OFFICES	1055 SF	100 SF	GROSS	11	2.1
HEALTH	905 SF	100 SF	GROSS	9	1.8
WORKROOM	155 SF	100 SF	GROSS	2	0.3
ADMIN OFFICES	1247 SF	100 SF	GROSS	12	2.5
COMMUNITY OFFICES	746 SF	100 SF	GROSS	7	1.5
FAMILY RESOURCE	278 SF	100 SF	GROSS	3	0.6
OFFICE	113 SF	100 SF	GROSS	1	0.2
STORAGE	91 SF	100 SF	GROSS	1	0.2
OFFICE	79 SF	100 SF	GROSS	1	0.2
OFFICE	80 SF	100 SF	GROSS	1	0.2
OFFICE	101 SF	100 SF	GROSS	1	0.2
SECURITY OFFICE	92 SF	100 SF	GROSS	1	0.2

FIRE ZONE 1 - FIRST FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
				51	10.3
EDUCATIONAL (VOCATIONAL)					
MUSIC	845 SF	50 SF	NET	17	3.4
MUSIC	987 SF	50 SF	NET	20	3.9
PLATFORM	849 SF	50 SF	NET	17	3.4
				54	10.7
KITCHEN					
KITCHEN	1759 SF	100 SF	GROSS	18	3.5
				18	3.5
LIBRARY (READING)					
MEDIA CENTER	2031 SF	50 SF	NET	41	8.1
				41	8.1
LOCKER ROOMS					
LOCKER ROOM	251 SF	50 SF	GROSS	5	1.0
LOCKER ROOM	251 SF	50 SF	GROSS	5	1.0
LOCKER ROOM	57 SF	50 SF	GROSS	1	0.2
LOCKERS	93 SF	50 SF	GROSS	2	0.4
LOCKER ROOM	140 SF	50 SF	GROSS	3	0.6
				16	3.2
TOILET					
PERSONAL CARE	98 SF	0 SF			
				0	0.0
Grand total				1648	329.7

FIRE ZONE 2 - FIRST FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ACCESSORY STORAGE / MECHANICAL EQUIPMENT					
ELEC	79 SF	300 SF	GROSS	0	0.1
TELECOM/ UTILITY	183 SF	300 SF	GROSS	1	0.1
MECH	65 SF	300 SF	GROSS	0	0.0
STORAGE	248 SF	300 SF	GROSS	1	0.2
STORAGE	79 SF	300 SF	GROSS	0	0.1
STORAGE	71 SF	300 SF	GROSS	0	0.0
STORAGE	240 SF	300 SF	GROSS	1	0.2
MECH	64 SF	300 SF	GROSS	0	0.0
KILN	98 SF	300 SF	GROSS	0	0.1
STORAGE	142 SF	300 SF	GROSS	0	0.1
MECH	64 SF	300 SF	GROSS	0	0.0
MECH	73 SF	300 SF	GROSS	0	0.0
				5	0.9
BUSINESS AREAS					
RESOURCE	254 SF	100 SF	GROSS	3	0.5
PLANNING	247 SF	100 SF	GROSS	2	0.5
FACULTY LOUNGE	404 SF	100 SF	GROSS	4	0.8
OFFICE	207 SF	100 SF	GROSS	2	0.4
OFFICE	132 SF	100 SF	GROSS	1	0.3
PLANNING	254 SF	100 SF	GROSS	3	0.5
RESOURCE	240 SF	100 SF	GROSS	2	0.5
OFFICE/ STOR	268 SF	100 SF	GROSS	3	0.5
				20	4.0
EDUCATIONAL (CLASSROOM)					
CLASSROOM	872 SF	20 SF	NET	44	8.7
CLASSROOM	872 SF	20 SF	NET	44	8.7
CLASSROOM	939 SF	20 SF	NET	47	9.4
CLASSROOM	889 SF	20 SF	NET	44	8.9
CLASSROOM	870 SF	20 SF	NET	44	8.7
CLASSROOM	870 SF	20 SF	NET	44	8.7
CLASSROOM	884 SF	20 SF	NET	44	8.8
CLASSROOM	968 SF	20 SF	NET	48	9.7
CLASSROOM	999 SF	20 SF	NET	50	10.0
CLASSROOM	943 SF	20 SF	NET	47	9.4
CLASSROOM	943 SF	20 SF	NET	47	9.4
CLASSROOM	971 SF	20 SF	NET	49	9.7
CLASSROOM	968 SF	20 SF	NET	48	9.7
COLLABORATIVE LEARNING	834 SF	20 SF	NET	42	8.3
COLLABORATIVE LEARNING	870 SF	20 SF	NET	43	8.7
				685	136.9
EDUCATIONAL (VOCATIONAL)					
ART LAB	941 SF	50 SF	NET	19	3.8
TECH LAB	878 SF	50 SF	NET	18	3.5
				36	7.3
Grand total				746	149.1

FIRE ZONE 2

OCCUPANCY	1,546
USE GROUP	E
CONSTRUCTION TYPE	II-B
NUMBER OF STORIES	3
BASEMENT FLOOR	1,023 SF
FIRST FLOOR	27,628 SF
SECOND FLOOR	26,373 SF
TOTAL BUILDING AREA	54,024 SF
ALLOWABLE AREA PER STORY	43,500 SF (TABLE 506.2)
% INCREASE FOR ACCESS: 38.86%	5,635 SF (506.3)
TOTAL ALLOWABLE AREA PER STORY	49,135 SF
TOTAL ALLOWABLE BUILDING AREA	**98,263 SF**

FIRE ZONE 1

OCCUPANCY	1,722
USE GROUP	E
CONSTRUCTION TYPE	II-B
NUMBER OF STORIES	2
FIRST FLOOR	34,366 SF
SECOND FLOOR	4,655 SF
TOTAL BUILDING AREA	39,021 SF
ALLOWABLE AREA PER STORY	43,500 SF (TABLE 506.2)
% INCREASE FOR ACCESS: 45.00%	6,525 SF (506.3)
TOTAL ALLOWABLE AREA PER STORY	50,025 SF
TOTAL ALLOWABLE BUILDING AREA	**100,050 SF**

PLUMBING CALCULATIONS

PLANNED CAPACITY	
GENERAL SPACES	
STUDENTS	604
STAFF	87

MINIMUM FIXTURE COUNT REQUIREMENTS BY STATE RATED PLANNED CAPACITY

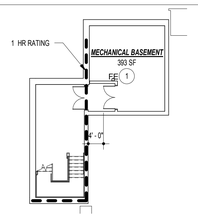
SPACES					TOTALS				
SPACE TYPE	STUDENTS		STAFF		REQUIRED		PROVIDED		
USE GROUP	E		B						
USOCCUPANCY	604		87		691				
MALE/ FEMALE RATIO	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	UNISEX
	302	302	44	44	346	346	346	346	
FIXTURE REQUIREMENTS									
WATER CLOSETS (1 PER##)	50	50	25	25					
URINALS 50% OF WC COUNT	50% OF WC		50% OF WC						
LAVATORIES	100	100	40	40					
DRINKING FOUNTAINS	100		100						
CALCULATIONS									
WATER CLOSETS	4	7	1	2	5	9	8	13	28
URINALS	4	-	1	-	5	-	6	-	
LAVATORIES	4	4	2	2	6	6	9	9	28
DRINKING FOUNTAINS	7		1		8		36		

NOTES:

1. THE TABLE ABOVE TABULATES MINIMUM FIXTURE REQUIREMENTS FOR THE PROPOSED SCHOOL BASED ON PLANNED MAXIMUM SCHOOL CAPACITY.
2. PLUMBING FIXTURE CALCULATIONS ARE PER IPC 2012, 403.1
3. THE CALCULATIONS ASSUME THAT DURING SCHOOL DAY THAT THE SCHOOL IS OCCUPIED ONLY BY STUDENTS AND STAFF.
4. CALCULATIONS ASSUME THAT STUDENTS AND STAFF WILL BE EVENLY DISTRIBUTED ON ALL FLOORS.
5. PROVIDED DRINKING FOUNTAIN CALCULATION IS BASED ON NUMBER OF WATER FOUNTAIN IN CORRIDORS PLUS THE NUMBER OF BUBBLERS FOR DRINKING WATER PROVIDED AT THE SINKS IN CLASSROOMS

FIRE ZONE 2 - BASEMENT OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ACCESSORY STORAGE / MECHANICAL EQUIPMENT					
MECHANICAL BASEMENT	393 SF	300 SF	GROSS	1	0.3
				1	0.3
Grand total				1	0.3



A18 CODE STUDY PLAN - FIRST FLOOR
1/16" = 1'-0"

A8 MECHANICAL BASEMENT CODE STUDY PLAN
1/16" = 1'-0"

CODE REVIEW

PROJECT NAME AND LOCATION

NAME	HOLABIRD ACADEMY ELEMENTARY MIDDLE SCHOOL #229
STREET ADDRESS	1500 IMLA STREET
COUNTY	--
CITY, STATE	BALTIMORE, MARYLAND

PROJECT DESCRIPTION: NEW ELEMENTARY SCHOOL, THREE-STORY

APPLICABLE CODES

Building Code:	INTERNATIONAL BUILDING CODE 2015
Fire Code:	NFPA 101 LIFE SAFETY CODE 2015
Accessibility:	AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG) AND MARYLAND ACCESSIBILITY CODE (COMAR.05.02.02 REV. 20002)

BUILDING USE AND CONSTRUCTION CLASSIFICATIONS

			IBC Code	Fire Code
Use Group:	E	EDUCATIONAL	305.1	6.1.3

Building Area:

MECH BASEMENT	1015 SF
FIRST FLOOR	61994 SF
SECOND FLOOR	31323 SF
Grand total	94332 SF

Proposed Type of Construction:	IBC TYPE IIB
Allowable Building Height:	55'+20' (IBC TABLE 504.3, TABLE 504.4)+75' (MAX ALLOWABLE PER IBC 504.4), 3 Stories
Actual Building Height:	48' MAXIMUM

OCCUPANCY LOADS AND EGRESS REQUIREMENTS

Location Calculated	Area in Sq. Ft.	Sq. Ft. per Person	Occupant Load	Egress Width Required	Egress Width Provided	Number Exits Required	Number Exits Provided
GYMNASIUM	5929	7	849	172"	272"	3	3
MEDIA CENTER	2031	50	41	32"	72"	2	2
DINING	2523	7*	361	72"	136"	2	2
CLASSROOM	847	20	43	32"	33"	1	1
TECH LAB	878	50	18	32"	33"	1	1
MUSIC	912	50	46	32"	33"	1	1

FIRE PROTECTION SYSTEM REQUIREMENTS

	System	IBC Code	Fire Code
Automatic Sprinklers	YES	903.2.3	9.7
Fire Alarm System	YES	907.2.3	9.6, 14.3.4
Smoke Detection System	NO	--	9.6.2.9
Partial Smoke Detection	YES	--	9.6.5.2 (1)
Location	DOORS WITH HOLD OPEN DEVICES	--	--

INTERIOR FINISH REQUIREMENTS

Per IBC Table 803.11 & NFPA 14.3.3.2, 14.3.3.3

TRAVEL DISTANCE TO EXITS

	IBC Code	Fire Code
Maximum Length of Travel in Fully Sprinklered Building	250' (Table 1017.2)	200' (14.2.6.3)
Maximum Length Common Path of Travel in Fully Sprinklered Building	75' (Table 1006.2.1)	100' (14.2.5.3.1)
Spaces with One Means of Egress, Maximum Travel Distance to an Exit Access Door	75' (Table 1006.2.1)	75' (14.2.5.5 (2))

MINIMUM CORRIDOR WIDTH REQUIREMENTS

Width	IBC Code	Fire Code
6 FT., EXIT CORRIDOR	Table 1020.2	14-2.3.2
44 IN., CLR. STAIR WIDTH	1011.2	7.2.2.2.1.2, 7.3.4

PANIC HARDWARE

Per IBC Code 1010.1.10 & NFPA 7.2.1.7, 14.2.2.2.2

ALL DOORS SERVING MORE THAN 50 & AT SMOKE BARRIER DOORS

EMERGENCY LIGHTING REQUIREMENTS

Per IBC Code 1008 & NFPA 7.9, 14.2.9

ALL MEANS OF EGRESS

FIRE RATING REQUIREMENTS- STRUCTURAL ELEMENTS/ EGRESS COMPONENTS

	Rating Required	IBC Code	Fire Code
Exterior Bearing Walls	0	TABLE 601, TABLE 602	TABLE A.8.2.1.2
Exterior Non-Bearing Walls	0	TABLE 602	TABLE A.8.2.1.2
Fire Walls	2	TABLE 706.4	TABLE A.8.2.1.2
Interior Bearing Walls	0	TABLE 601	TABLE A.8.2.1.2
Floor/ Ceiling Assemblies	0	TABLE 601	TABLE A.8.2.1.2
Roof/ Ceiling Assemblies	0	TABLE 601	TABLE A.8.2.1.2
Columns	0	TABLE 601	TABLE A.8.2.1.2
Beams	0	TABLE 601	TABLE A.8.2.1.2
Egress Corridors	0	TABLE 1020.1	7.1.3.1, 14.3.6
Shafts (Stairs)	1	1023.2	7.1.3.2.1
Shafts Other than Stairs	1	713.4	8.6.5
Corridor Doors	0	716.5.3, Table 1020.1	14.3.6
Smoke Barrier	1	709.3	8.5
Smoke Partitions	0	710.3	8.4, 14.3.7, 14.3.6 (2)(a)
Smoke Barrier Doors	20 MIN.	710.5.2, 716.5.3	8.5
Mixed Use Separation	1 or Auto Fire Extinguishing System	508, TABLE 508.4	--

EGRESS WIDTH

Width	IBC Code	Fire Code
Egress width at stairs	.3"/OCC. (1005.3.1)	.3"/OCC. (TABLE 7.3.3.1)
Egress width at doors and corridors	.15"/OCC. (1005.3.2, Exception 1)	.2"/OCC.(TABLE 7.3.3.1)

NUMBER OF REMOTE EXITS REQUIRED

By Room	IBC Code		Fire Code
Rooms Less Than 50 Occupants	1 Exit	(Table 1006.2.1)	--
Rooms with 50 - 500 Occupants	2 Exits	(1006.2.1)	--
Rooms with 501 - 1000 Occupants	3 Exits	(1006.2.1.1)	--
Rooms with More than 1000 Occupants	4 Exits	(1006.2.1.1)	--

By Story	IBC Code		Fire Code
1 - 500 Occupants	2 Exits	(Table 1006.3.1)	2 Exits, 14.2.4
501 - 1000 Occupants	3 Exits	(Table 1006.3.1)	3 Exits, 7.4.1.2
More than 1000 Occupants	4 Exits	(Table 1006.3.1)	4 Exits, 7.4.1.2

REMOTENESS OF EXITS

Life Safety A.7.5.1.3.3 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building)

IBC 1007.1.1 Exception 2 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building)

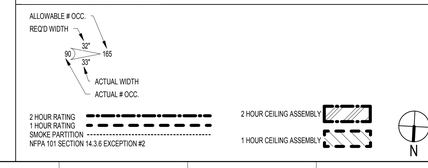
MAXIMUM DEAD END DISTANCES

IBC Code	Fire Code
50 FT. (1020.4) Exception 2	50 FT. (14.2.5.2)

NOTES:

1. Mixed use separation walls shall have 45 minute rated opening protectives.
2. All fire separation walls shall comply with Section 708.4 of the 2015 IBC Code. They shall extend from the top of the fire resistance rated floor/ ceiling assembly below to the underside of the floor or roof slab or deck above and shall be securely attached thereto.
3. All fire walls shall comply with Section 706 of the 2015 IBC Code.
4. Elevator shaft to be (2) hour rated - UL# U906.
5. Exterior walls indicated to provide (1) hour rating (UL# U906) - At stairs and fire walls where exterior walls form an angle less than 180 degrees, the exterior wall shall be rated at stairs per L.S. 7.2.2.5.2, and at fire walls per IBC 1023.7.
6. Stair enclosures are (1) hour rated, unless noted otherwise.
7. Refer to 1/8" plans & coord. w/ MEP drawings for chases thru floor shown thus enclosure wall around these floor opn'gs. shall be (1) hour rated & shall extend from floor tight to deck above - pack w/ safing insulation rating shall be as follows:
   CMU - U.L. #U906
   Gyp. Bd. - Gypsum Assoc. assembly WP1110
8. Refer to sheet A-3.20 for wall termination details at rated walls.
9. Refer to the Door Schedule for doors with closers required.
10. All rated walls and partitions shall be permanently identified with signs or stenciling as follows:
    a. Identification markings shall be located in accessible concealed floor, floor-ceiling and attic spaces.
    b. Identification markings shall be located within 15'-0" of the end of each wall and at intervals not exceeding 30'-0" measured horizontally along the wall or partition.
    c. Lettering shall not be less than 3" in height with a minimum 3/8" stroke in contrasting color incorporating the following wording: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS".
11. No penetration of rated ceiling assemblies is allowed.

SYMBOL KEY



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CODE STUDY - GROUND AND FIRST FLOOR

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.2H

03/13/2017
BID SET

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FIRE ZONE 2 - SECOND FLOOR OCCUPANCY SUMMARY

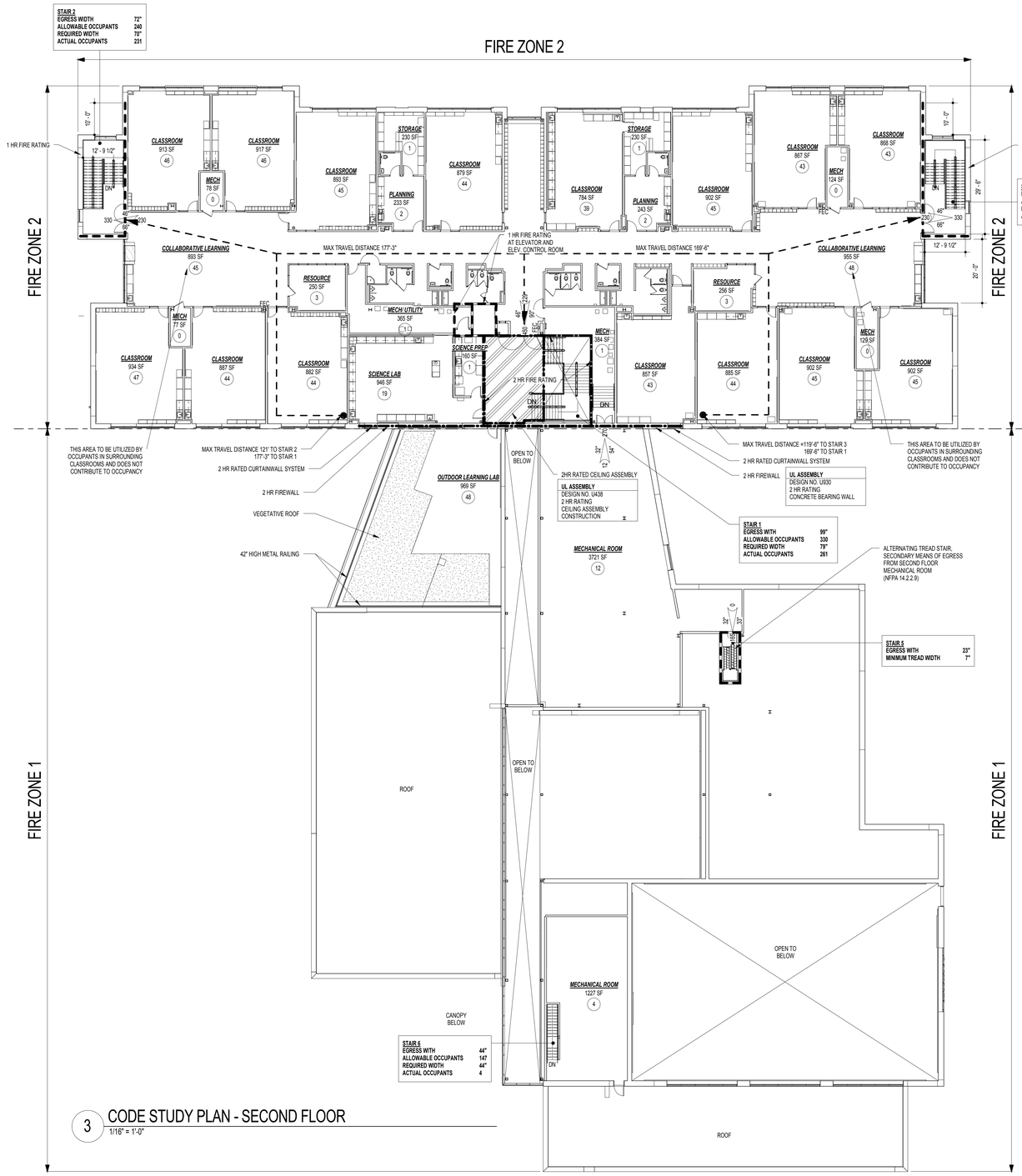
AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ACCESSORY STORAGE / MECHANICAL EQUIPMENT					
MECH	77 SF	300 SF	GROSS	0	0.1
SCIENCE PREP	160 SF	300 SF	GROSS	1	0.1
MECH/ UTILITY	365 SF	300 SF	GROSS	1	0.2
MECH	384 SF	300 SF	GROSS	1	0.3
MECH	129 SF	300 SF	GROSS	0	0.1
MECH	124 SF	300 SF	GROSS	0	0.1
STORAGE	230 SF	300 SF	GROSS	1	0.2
STORAGE	230 SF	300 SF	GROSS	1	0.2
MECH	78 SF	300 SF	GROSS	0	0.1
				6	1.2
BUSINESS AREAS					
RESOURCE	250 SF	100 SF	GROSS	3	0.5
PLANNING	243 SF	100 SF	GROSS	2	0.5
PLANNING	233 SF	100 SF	GROSS	2	0.5
RESOURCE	256 SF	100 SF	GROSS	3	0.5
				10	2.0
EDUCATIONAL (CLASSROOM)					
CLASSROOM	934 SF	20 SF	NET	47	9.3
CLASSROOM	887 SF	20 SF	NET	44	8.9
CLASSROOM	882 SF	20 SF	NET	44	8.8

FIRE ZONE 2 - SECOND FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
CLASSROOM	857 SF	20 SF	NET	43	8.6
CLASSROOM	885 SF	20 SF	NET	44	8.9
CLASSROOM	902 SF	20 SF	NET	45	9.0
CLASSROOM	902 SF	20 SF	NET	45	9.0
COLLABORATIVE LEARNING	955 SF	20 SF	NET	48	9.5
CLASSROOM	868 SF	20 SF	NET	43	8.7
CLASSROOM	867 SF	20 SF	NET	43	8.7
CLASSROOM	902 SF	20 SF	NET	45	9.0
CLASSROOM	784 SF	20 SF	NET	39	7.8
CLASSROOM	879 SF	20 SF	NET	44	8.8
CLASSROOM	893 SF	20 SF	NET	45	8.9
CLASSROOM	917 SF	20 SF	NET	46	9.2
CLASSROOM	913 SF	20 SF	NET	46	9.1
COLLABORATIVE LEARNING	893 SF	20 SF	NET	45	8.9
				756	151.2
EDUCATIONAL (VOCATIONAL)					
SCIENCE LAB	946 SF	50 SF	NET	19	3.8
				19	3.8
Grand total				791	158.1

FIRE ZONE 1 - SECOND FLOOR OCCUPANCY SUMMARY

AREA NAME	AREA (SF)	AREA PER OCCUPANT (SF)	GROSS OR NET	OCCUPANCY LOAD	EGRESS WIDTH REQ'D
ACCESSORY STORAGE / MECHANICAL EQUIPMENT					
MECHANICAL ROOM	3721 SF	300 SF	GROSS	12	2.5
MECHANICAL ROOM	1227 SF	300 SF	GROSS	4	0.8
				16	3.3
EDUCATIONAL (CLASSROOM)					
OUTDOOR LEARNING LAB	969 SF	20 SF	NET	48	9.7
				48	9.7
Grand total				65	13.0



3 CODE STUDY PLAN - SECOND FLOOR
1/16" = 1'-0"

FIRE ZONE 2

OCCUPANCY	1,546
USE GROUP	E
CONSTRUCTION TYPE	II-B
NUMBER OF STORIES	3
BASEMENT FLOOR	1,023 SF
FIRST FLOOR	27,628 SF
SECOND FLOOR	26,373 SF
TOTAL BUILDING AREA	54,024 SF
ALLOWABLE AREA PER STORY	43,500 SF (TABLE 506.2)
% INCREASE FOR ACCESS: 38.86%	5,635 SF (506.3)
TOTAL ALLOWABLE AREA PER STORY	49,135 SF
TOTAL ALLOWABLE BUILDING AREA	**98,263 SF**

FIRE ZONE 1

OCCUPANCY	1,722
USE GROUP	E
CONSTRUCTION TYPE	II-B
NUMBER OF STORIES	2
FIRST FLOOR	34,366 SF
SECOND FLOOR	4,655 SF
TOTAL BUILDING AREA	39,021 SF
ALLOWABLE AREA PER STORY	43,500 SF (TABLE 506.2)
% INCREASE FOR ACCESS: 45.00%	6,525 SF (506.3)
TOTAL ALLOWABLE AREA PER STORY	50,025 SF
TOTAL ALLOWABLE BUILDING AREA	**100,050 SF**

CODE REVIEW

PROJECT NAME AND LOCATION

NAME	HOLABIRD ACADEMY ELEMENTARY MIDDLE SCHOOL #229
STREET ADDRESS	1500 IMLA STREET
COUNTY	--
CITY, STATE	BALTIMORE, MARYLAND

PROJECT DESCRIPTION: NEW ELEMENTARY SCHOOL, THREE-STORY

APPLICABLE CODES

Building Code:	INTERNATIONAL BUILDING CODE 2015
Fire Code:	NFPA 101 LIFE SAFETY CODE 2015
Accessibility:	AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG) AND MARYLAND ACCESSIBILITY CODE (COMAR.05.02.02 REV. 20002)

BUILDING USE AND CONSTRUCTION CLASSIFICATIONS

			IBC Code	Fire Code
Use Group:	E	EDUCATIONAL	305.1	6.1.3

Building Area:

MECH BASEMENT	1015 SF
FIRST FLOOR	61994 SF
SECOND FLOOR	31323 SF
Grand total	94332 SF

Proposed Type of Construction:	IBC TYPE IIB
Allowable Building Height:	55'+20' (IBC TABLE 504.3, TABLE 504.4)=75' (MAX ALLOWABLE PER IBC 504.4), 3 Stories
Actual Building Height:	48' MAXIMUM

OCCUPANCY LOADS AND EGRESS REQUIREMENTS

Location Calculated	Area in Sq. Ft.	Sq. Ft. per Person	Occupant Load	Egress Width Required	Egress Width Provided	Number Exits Required	Number Exits Provided
GYMNASIUM	5929	7	849	172"	272"	3	3
MEDIA CENTER	2031	50	41	32"	72"	2	2
DINING	2523	7*	361	72"	136"	2	2
CLASSROOM	847	20	43	32"	33"	1	1
TECH LAB	878	50	18	32"	33"	1	1
MUSIC	912	50	46	32"	33"	1	1

FIRE PROTECTION SYSTEM REQUIREMENTS

	System	IBC Code	Fire Code
Automatic Sprinklers	YES	903.2.3	9.7
Fire Alarm System	YES	907.2.3	9.6, 14.3.4
Smoke Detection System	NO	--	9.6.2.9
Partial Smoke Detection	YES	--	9.6.5.2 (1)
Location	DOORS WITH HOLD OPEN DEVICES	--	--

INTERIOR FINISH REQUIREMENTS

Per IBC Table 803.11 & NFPA 14.3.3.2, 14.3.3.3

TRAVEL DISTANCE TO EXITS

	IBC Code	Fire Code
Maximum Length of Travel in Fully Sprinklered Building	250' (Table 1017.2)	200' (14.2.6.3)
Maximum Length Common Path of Travel in Fully Sprinklered Building	75' (Table 1006.2.1)	100' (14.2.5.3.1)
Spaces with One Means of Egress, Maximum Travel Distance to an Exit Access Door	75' (Table 1006.2.1)	75' (14.2.5.5 (2))

MINIMUM CORRIDOR WIDTH REQUIREMENTS

Width	IBC Code	Fire Code
6 FT., EXIT CORRIDOR	Table 1020.2	14-2.3.2
44 IN., CLR. STAIR WIDTH	1011.2	7.2.2.2.1.2, 7.3.4

PANIC HARDWARE

Per IBC Code 1010.1.10 & NFPA 7.2.1.7, 14.2.2.2.2

ALL DOORS SERVING MORE THAN 50 & AT SMOKE BARRIER DOORS

EMERGENCY LIGHTING REQUIREMENTS

Per IBC Code 1008 & NFPA 7.9, 14.2.9

ALL MEANS OF EGRESS

FIRE RATING REQUIREMENTS- STRUCTURAL ELEMENTS/ EGRESS COMPONENTS

	Rating Required	IBC Code	Fire Code
Exterior Bearing Walls	0	TABLE 601, TABLE 602	TABLE A.8.2.1.2
Exterior Non-Bearing Walls	0	TABLE 602	TABLE A.8.2.1.2
Fire Walls	2	TABLE 706.4	TABLE A.8.2.1.2
Interior Bearing Walls	0	TABLE 601	TABLE A.8.2.1.2
Floor/ Ceiling Assemblies	0	TABLE 601	TABLE A.8.2.1.2
Roof/ Ceiling Assemblies	0	TABLE 601	TABLE A.8.2.1.2
Columns	0	TABLE 601	TABLE A.8.2.1.2
Beams	0	TABLE 601	TABLE A.8.2.1.2
Egress Corridors	0	TABLE 1020.1	7.1.3.1, 14.3.6
Shafts (Stairs)	1	1023.2	7.1.3.2.1
Shafts Other than Stairs	1	713.4	8.6.5
Corridor Doors	0	716.5.3, Table 1020.1	14.3.6
Smoke Barrier	1	709.3	8.5
Smoke Partitions	0	710.3	8.4, 14.3.7, 14.3.6 (2)(a)
Smoke Barrier Doors	20 MIN.	710.5.2, 716.5.3	8.5
Mixed Use Separation	1 or Auto Fire Extinguishing System	508, TABLE 508.4	--

EGRESS WIDTH

Width	IBC Code	Fire Code
Egress width at stairs	.3"/OCC. (1005.3.1)	.3"/OCC. (TABLE 7.3.3.1)
Egress width at doors and corridors	.15"/OCC. (1005.3.2, Exception 1)	.2"/OCC.(TABLE 7.3.3.1)

NUMBER OF REMOTE EXITS REQUIRED

By Room	IBC Code	Fire Code
Rooms Less Than 50 Occupants	1 Exit (Table 1006.2.1)	--
Rooms with 50 - 500 Occupants	2 Exits (1006.2.1)	--
Rooms with 501 - 1000 Occupants	3 Exits (1006.2.1.1)	--
Rooms with More than 1000 Occupants	4 Exits (1006.2.1.1)	--

By Story	IBC Code	Fire Code
1 - 500 Occupants	2 Exits (Table 1006.3.1)	2 Exits, 14.2.4
501 - 1000 Occupants	3 Exits (Table 1006.3.1)	3 Exits, 7.4.1.2
More than 1000 Occupants	4 Exits (Table 1006.3.1)	4 Exits, 7.4.1.2

REMOTENESS OF EXITS

Life Safety A.7.5.1.3.3 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building)

IBC 1007.1.1 Exception 2 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building)

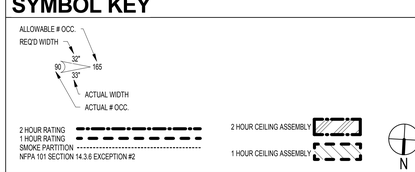
MAXIMUM DEAD END DISTANCES

IBC Code	Fire Code
50 FT. (1020.4) Exception 2	50 FT. (14.2.5.2)

NOTES:

1. Mixed use separation walls shall have 45 minute rated opening protectives.
2. All fire separation walls shall comply with Section 708.4 of the 2015 IBC Code. They shall extend from the top of the fire resistance rated floor/ ceiling assembly below to the underside of the floor or roof slab or deck above and shall be securely attached thereto.
3. All fire walls shall comply with Section 706 of the 2015 IBC Code.
4. Elevator shaft to be (2) hour rated - UL# U906.
5. Exterior walls indicated to provide (1) hour rating (UL# U906) - At stairs and fire walls where exterior walls form an angle less than 180 degrees, the exterior wall shall be rated at stairs per L.S. 7.2.2.5.2, and at fire walls per IBC 1023.7.
6. Stair enclosures are (1) hour rated, unless noted otherwise.
7. Refer to 1/8" plans & coord. w/ MEP drawings for chases thru floor shown thus enclosure wall around these floor opn'gs. shall be (1) hour rated & shall extend from floor tight to deck above - pack w/ safing insulation rating shall be as follows:
   CMU - U.L. #U906
   Gyp. Bd. - Gypsum Assoc. assembly WP1110
8. Refer to sheet A-3.20 for wall termination details at rated walls.
9. Refer to the Door Schedule for doors with closers required.
10. All rated walls and partitions shall be permanently identified with signs or stenciling as follows:
    a. Identification markings shall be located in accessible concealed floor, floor-ceiling and attic spaces.
    b. Identification markings shall be located within 15'-0" of the end of each wall and at intervals not exceeding 30'-0" measured horizontally along the wall or partition.
    c. Lettering shall not be less than 3" in height with a minimum 3/8" stroke in contrasting color incorporating the following wording: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS".
11. No penetration of rated ceiling assemblies is allowed.

SYMBOL KEY



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CODE STUDY - SECOND FLOOR
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.3H
03/13/2017
BID SET

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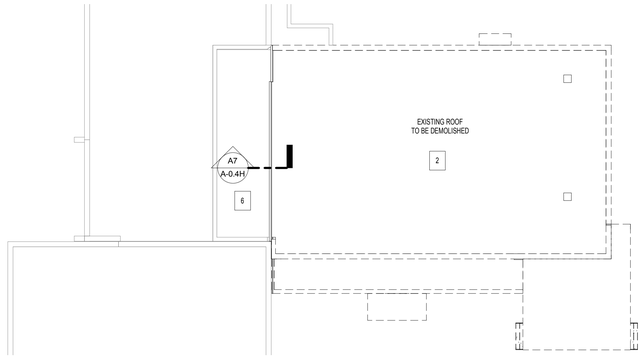
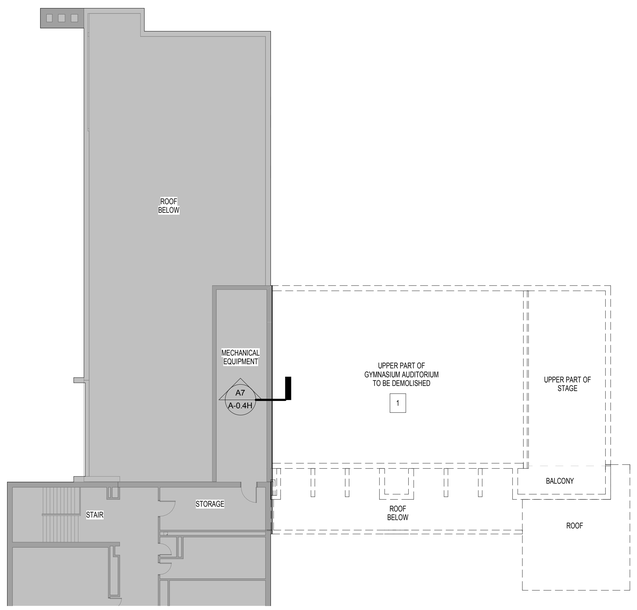
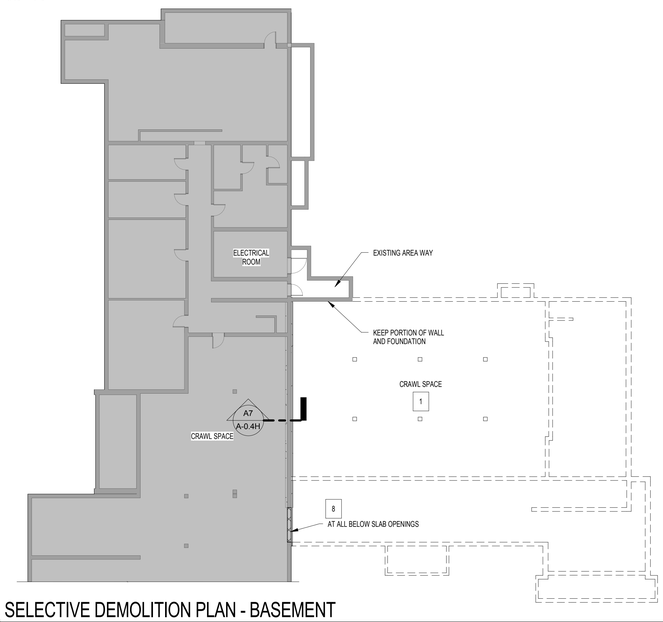


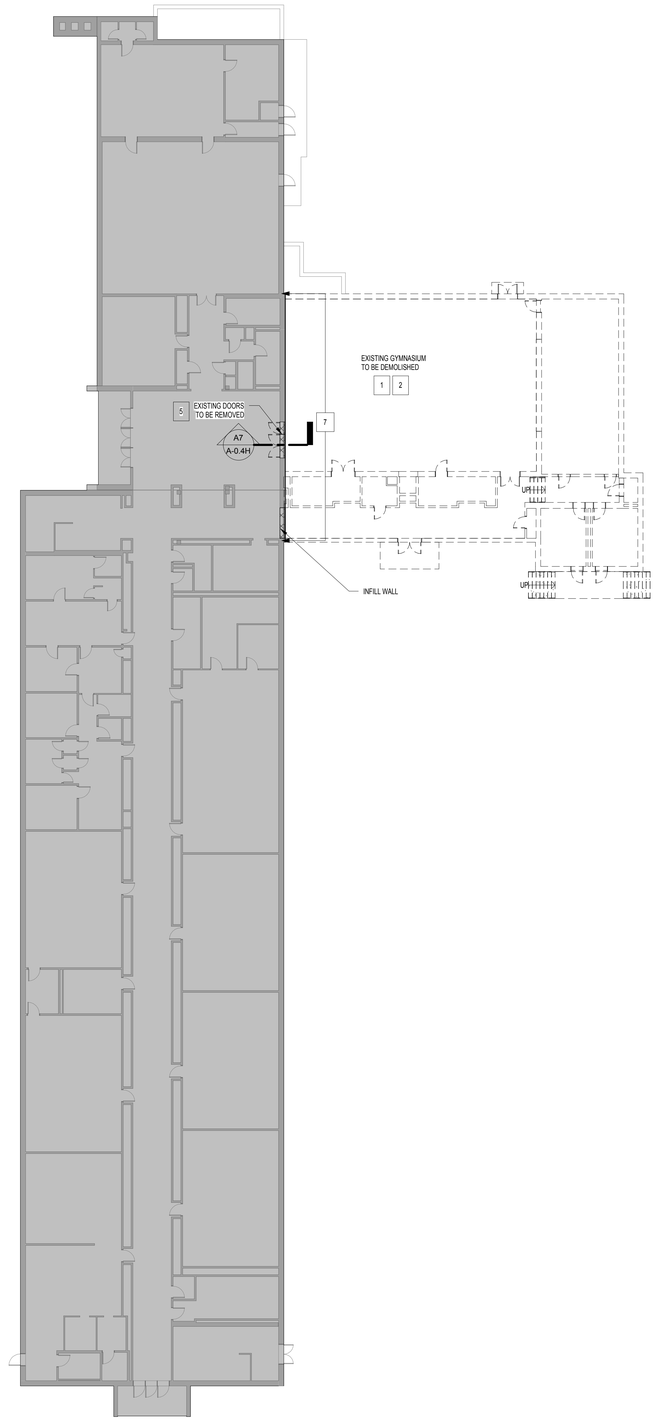
K18 SELECTIVE DEMOLITION PLAN - ROOF PLAN
1/16" = 1'-0"



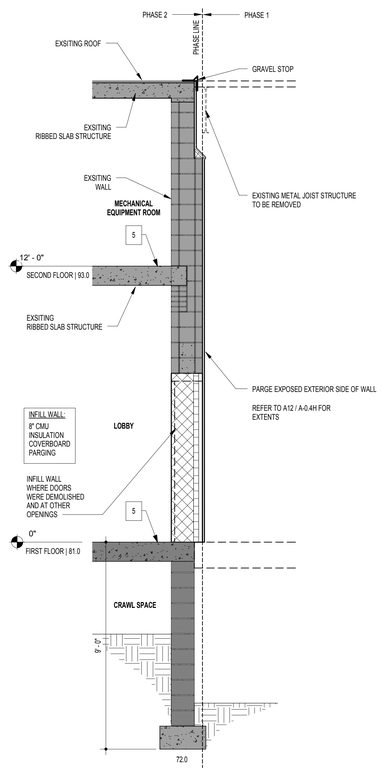
E18 SELECTIVE DEMOLITION PLAN - SECOND FLOOR
1/16" = 1'-0"



A18 SELECTIVE DEMOLITION PLAN - BASEMENT
1/16" = 1'-0"



A12 OVERALL DEMOLITION PLAN - FIRST FLOOR
1/16" = 1'-0"



A7 TEMPORARY EXT. WALL @ GYM
3/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. ALL WORK SHOWN IS EXISTING TO REMAIN UNLESS NOTED OR INDICATED AS DASHED LINES TO BE REMOVED. THE EXTENT OF DEMOLITION WORK SHALL INCLUDE ALL INCIDENTAL DEMOLITION WORK NECESSARY TO PROPERLY PROVIDE ALL NEW WORK SHOWN AND SPECIFIED, TO INCLUDE MECHANICAL, ELECTRICAL, & PLUMBING ITEMS.
2. DEMOLITION WORK SHOWN IS BASED ON EXISTING DRAWINGS AND INSPECTIONS. THE CONTRACTOR SHALL VISUALLY INSPECT ALL EXISTING CONDITIONS, AND IS RESPONSIBLE FOR PERFORMING THE INDICATED DEMOLITION WORK EVEN IF ACTUAL CONDITIONS DIFFER FROM THESE SHOWN ON THE DRAWINGS.
3. DEMOLITION CONTRACTOR SHALL COORDINATE WITH NEW WORK SECTIONS FOR ADDITIONAL INFORMATION RELATED TO EXTENT OF DEMOLITION.
4. REFER TO ALL OTHER DRAWINGS IN THIS SET FOR INCIDENTAL DEMOLITION WORK NOT NOTED ON THE DEMOLITION PLANS.
5. THE OWNER HAS FIRST RIGHT OF REFUSAL OF ALL SALVAGE ITEMS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS. DO NOT STOCKPILE DEBRIS ON SITE.
6. ITEMS TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY INCLUDING ALL ANCHORS, HANGERS, FASTENERS, PIPES, CONDUCTS, DUCTS, ETC. UNLESS OTHERWISE INDICATED TO BE ABANDONED IN PLACE.
7. CONC. SLAB PATCHES MUST BE FLUSH WITH REMAINING SURFACES TO PERMIT APPLICATION OF FINISHES. PROVIDE WELDED WIRE MESH IN PATCH AREAS LARGER THAT (4) FOUR SQUARE FEET.
8. CONC. SLABS TO REMAIN SHALL BE PATCHED, SCRAPED, LEVELED, AD CLEANED TO PROVIDE SURFACE SUITABLE FOR NEW FINISHES. WHERE RENOVATED AREAS ARE RECEIVING NEW UNDERGROUND MECHANICAL, PLUMBING, ELECTRICAL, OR ADDITIONAL FOUNDATION WORK, SEE MECHANICAL, PLUMBING, ELECTRIC, AND STRUCTURAL DRAWINGS, AS WELL AS ARCHITECTURAL DRAWINGS TO DETERMINE EXTENT OF REQUIRED CUT AND PATCH OF EXISTING SLAB. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONC. SLAB DEMOLITION AND REPLACEMENT NECESSARY TO INSTALL THE NEW WORK. BACKFILL ALL BELOW GRADE DEMOLITION WORK WITH SUITABLE FILL MEETING STRUCTURAL REQUIREMENTS FOR NEW WORK.
9. PARTITIONS SHOWN TO BE REMOVED SHALL BE CONFIRMED BY THE CONTRACTOR AS TO TYPE OF PARTITION AND EXACT LOCATION. COMPLETELY REMOVE PARTITIONS FROM FLOOR TO STRUCTURE ABOVE INCLUDING BASE, ALL FASTENERS, GROUTS, SEAL ANTS, ETC., UNLESS NOTED OTHERWISE. MASONRY PARTITIONS WHICH EXTEND THROUGH THE SLAB SHALL BE REMOVED TO 8" BELOW FINISH FLOOR. FILL SLAB OPENING WITH CONCRETE FILL TO RECEIVE FINISH FLOOR. WHERE WALLS SCHEDULED TO BE REMOVED SIT ON SLABS, GRIND SLAB TO RECEIVE FINISH FLOOR.
10. REMOVE, PATCH AND REPAIR PORTIONS OF WALL PARTITIONS WHICH CONFLICT WITH NEW WORK TO BE INSTALLED, EVEN IF NOT SPECIFICALLY NOTED TO BE DEMOLISHED ON PLANS.
11. WALLS TO BE REMOVED FROM INTERSECTING WALLS SHALL INCLUDE TOOTHED IN REPLACEMENT OF DAMAGED MASONRY ON WALL TO REMAIN AND REMOVAL OF TIES PROJECTING FROM WALLS. SEE DETAILS FOR ADDITIONAL CONDITIONS.
12. WALLS TO BE PARTIALLY REMOVED SHALL BE TERMINATED WITH FINISHED MASONRY ENDS BY TOOTHING IN NEW MASONRY UNITS, TO MATCH ADJACENT MASONRY. SEE DETAILS FOR OTHER CONDITIONS. NO WALLS SHALL BE TERMINATED WITH EXPOSED OPEN CELLS OR DAMAGED MASONRY UNITS.
13. WHERE NEW OPENINGS ARE SHOWN IN EXISTING WALLS, CAREFULLY REMOVE MASONRY TO NEAREST JOINT LINE WITHOUT DISTURBING ADJACENT WORK SO THAT NEW WORK CAN BE PATCHED IN TO MATCH. ALL NEW MASONRY WORK SHALL BE TOOTHED IN.
14. ALL EXISTING STRUCTURE SHALL REMAIN, UNLESS NOTED OTHERWISE.
15. COORDINATE DEMOLITION OF ALL STRUCTURAL ITEMS (COLUMNS, BEAMS, SLABS, ET, ETC.) WITH STRUCTURAL DWGS. EXTENT OF DEMOLITION AREA SHALL BE IN ACCORDANCE WITH STRUCTURAL REQUIREMENTS AND COORDINATED WITH ALL NEW WORK.
16. TEMPORARILY SUPPORT ALL BEAMS, LINTELS, PORTIONS OF WALLS ETC., TO BE DISTURBED BY DEMOLITION WORK, UNTIL THEY ARE RE-SUPPORTED BY NEW WORK.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF EXISTING BUILDING ELEMENTS TO REMAIN THROUGHOUT SEQUENCE OF WORK. ANY DAMAGE TO EXISTING BUILDING CONDITIONS SHOWN TO REMAIN SHALL BE RESTORED TO NEW WORK CONDITION AT NO ADDITIONAL COST TO THE OWNER.
18. WINDOWS SCHEDULED FOR REMOVAL SHALL BE REMOVED COMPLETELY. FASTENERS MAY BE CUT FLUSH WITH HEAD, JAMBS, AND SILLS IF THE NEW WINDOW UNT WILL CONCEAL FASTENER. PROTECT EXISTING SILLS SCHEDULED TO REMAIN. ALL EXISTING WINDOW OPENINGS MUST BE FIELD MEASURED PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
19. WERE FINISHES ARE INDICATED TO BE REMOVED, REMOVAL SHALL INCLUDE ANY GROUT, ADHESIVES, FASTENERS, AND ALL OTHER ITEMS USED TO ATTACH THE FINISHES TO THE SURFACES THAT THEY COVER.
20. ANY FLOOR AREAS DAMAGED BY THE DEMOLITION CONTRACTOR SHALL BE PATCHED TO MATCH EXISTING.
21. WHERE CEILINGS ARE TO BE REMOVED, REMOVE ALL CEILINGS SYSTEMS COMPLETE INCLUDING GRID, TRIM HANGER, CLIPS, ETC. WHERE NEW CEILINGS ARE SPECIFIED, NO DOUBLE CEILINGS PERMITTED. REMOVE ALL ORIGINAL CONCEALED CEILINGS WHERE ENCOUNTERED.
22. ALL EXISTING SURFACES TO REMAIN SHALL BE PROTECTED, PATCHED IF DAMAGED AND CLEANED PRIOR TO APPLICATION OF FINISHES.
23. CONTRACTOR TO PROTECT ALL EQUIPMENT AND OTHER ELEMENTS IN AREA OF NEW OR DEMOLITION WORK.
24. REMOVE ALL CURTAINS AND BLINDS IN AREAS OF RENOVATION OR DEMOLITION, UNLESS NOTED OTHERWISE.
25. REMOVE MECHANICAL, ELECTRICAL AND PLUMBING ITEMS AS NOTED ON MECHANICAL, ELECTRICAL AND PLUMBING PLANS. COORDINATE WITH CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING, FOR ADDITIONAL DEMOLITION NOTES. REMOVAL WORK IS INTENDED TO INCLUDE ALL ASSOCIATED ITEMS SUCH AS ELECTRICAL OUTLETS, SWITCHES, CONDUITS, CONTROLS, PIPING, MOUNTING BLOCKS, ETC., AS NOTED. THE CONTRACTOR SHALL REFER TO ALL CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR PROCEDURES CONCERNING RELATED TRADES IN AREAS WHICH REQUIRE DEMOLITION. REPAIR AND PATCH ANY AREAS DAMAGED DURING REMOVAL WORK.

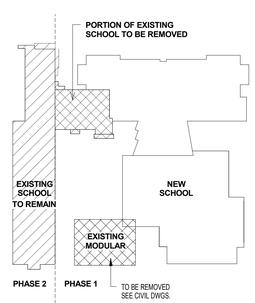
DEMOLITION KEY NOTES

1. REMOVE EXISTING STRUCTURE COMPLETELY, INCLUDING ROOF, WALLS, SLABS, DOORS, WINDOWS, FRAMES & FOUNDATION. REFER TO STRUCTURAL DWGS.
2. REMOVE ROOF STRUCTURE, ROOFING AND FLASHING COMPLETELY.
3. REMOVE ALL FINISHES INCLUDING FLOORING, FIXTURES, CASEWORK, SHELVING, BASE, CHALK & TACK BOARDS, PROJECTION SCREEN, WINDOW TREATMENT, SINKS, PLUMBING FIXTURES, CHASES, MECHANICAL UNITS, ELECTRICAL ITEMS, CEILING & CEILING SUPPORT MEMBERS & ALL BULKHEADS. COORD. W/ M.E.P. FOR ADDITIONAL DEMO.
4. REMOVE EXHAUST COORD. W/ M.E.P. DWGS. FOR EXISTING OPENINGS TO BE REUSED. ABANDONED PENETRATIONS SHALL BE INFILLED PER DETAILS.
5. EXISTING FLOOR FINISH TO REMAIN. PROTECT DURING CONSTRUCTION. SEE NEW WORK PLANS FOR AREAS TO PATCH
6. EXISTING ROOF TO REMAIN
7. EXTENT OF EXISTING WALL TO BE PARGED
8. 8" CMU INFILL AT OPENING WITH PARGING

DEMOLITION KEY

- EXISTING WALL
- NEW / TEMPORARY INFILL WALL
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR & FRAME TO BE REMOVED
- EXISTING COLUMN
- EXISTING COLUMN TO BE DEMOLISHED

DEMOLITION KEY PLAN



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SELECTIVE DEMOLITION PLAN

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.4H

03/13/2017
BID SET

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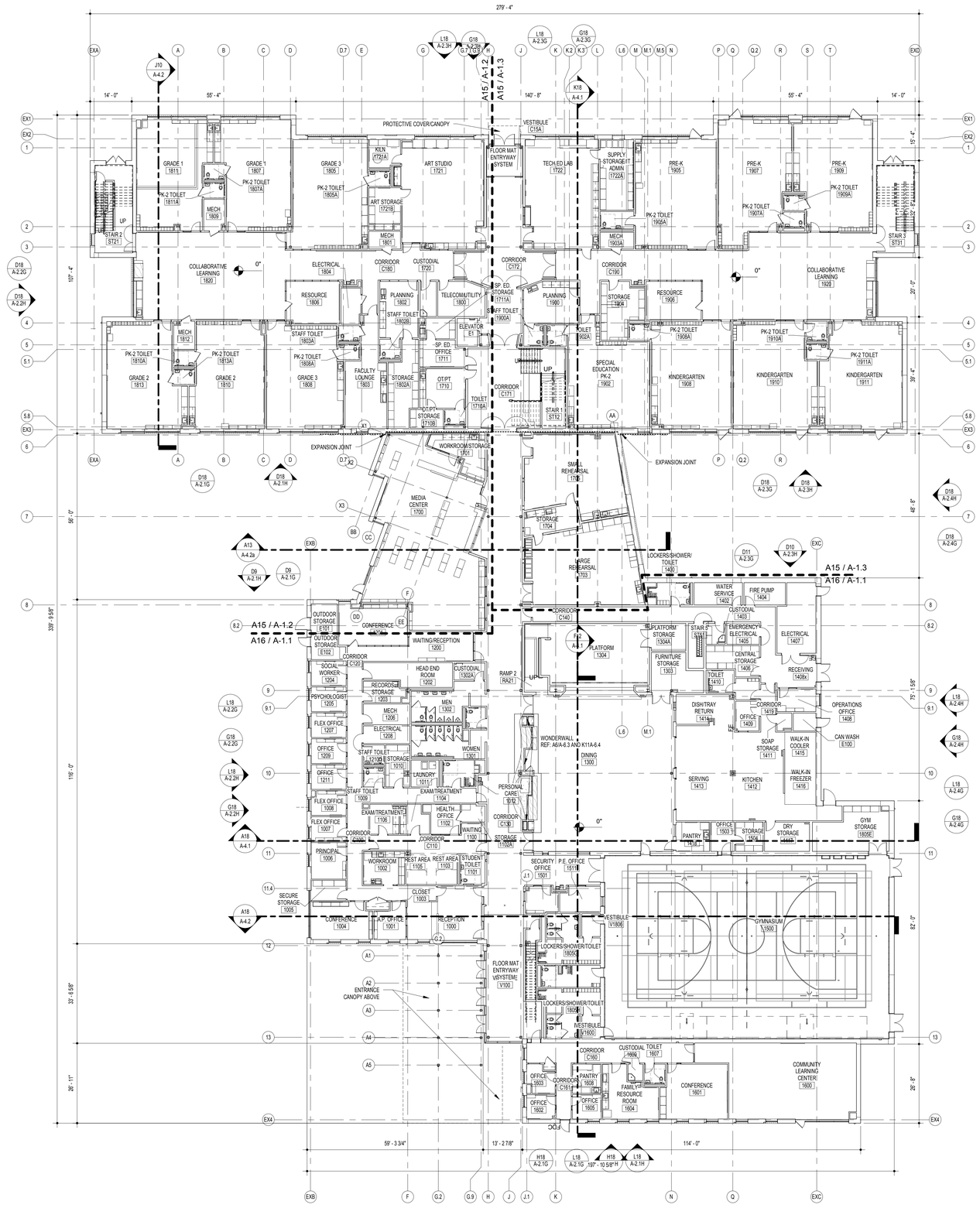


A14 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

FIRST FLOOR TOTAL AREA:
61,994 SF
Scale: 1 inch = 16 feet
0 8' 16' 32' 48'

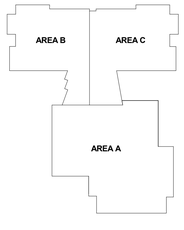
GENERAL NOTES

(NOTES APPLY TO ALL DRAWINGS)

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. ALL CONSTRUCTION AND WORK SHOWN ON THE COMPLETE SET OF DRAWINGS IS ASSUMED TO BE NEW AND FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. IF A CONFLICT EXISTS BETWEEN DRAWINGS (AND/OR SPECIFICATIONS), THE MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY. ITEMS SHOWN ON THE DRAWINGS, BUT NOT SPECIFIED, SHALL APPLY AND BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF AN ITEM IS SHOWN ON THE DRAWINGS, BUT IS NOT INCLUDED IN THE SPECIFICATIONS, PROVIDE ITEM OF A QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS. BRING CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
3. WRITTEN INFORMATION TAKES PRECEDENT OVER DRAWING LINES. BRING CONFLICTS BETWEEN WRITTEN INFORMATION AND DRAWN LINES TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
4. IF A CONFLICT EXISTS BETWEEN DRAWINGS OF DIFFERENT SCALES, CONSULT THE ARCHITECT FOR CLARIFICATION.
5. IN THE ABSENCE OF A WRITTEN DIMENSION, OR IN CASE OF DOUBT AS TO THE PROPER MEASUREMENT, CONSULT THE ARCHITECT FOR CLARIFICATION.
6. IF AN AREA OR SPACE IS SHOWN, BUT IS NOT CLEARLY DEFINED OR INDICATED BY NOTES, PROVIDE THE SAME MATERIALS AND FINISHES AS SCHEDULED OR DETAILED FOR AREAS OF SIMILAR USE ELSEWHERE IN THE BUILDING.
7. SECTIONS INDICATED ARE INTENDED TO SHOW THE SPECIFIC CONSTRUCTION WHERE REFERENCED AS WELL AS ESTABLISH THE GENERAL CONSTRUCTION DETAILS FOR SECTIONS THROUGHOUT THE PROJECT WHICH DO NOT HAVE SPECIFIC SECTIONS DRAWN. THE MOST SIMILAR SECTIONS SHALL BE ADAPTED TO ANY SECTIONS NOT DETAILED. ANY SPECIFIC QUESTIONS CONCERNING CONSTRUCTION NOT ADEQUATELY COVERED BY THE ABOVE SHOULD BE DIRECTED TO THE ARCHITECT DURING THE BIDDING.
8. TYPICAL DETAILS THROUGHOUT THE DRAWING SET SHALL APPLY FOR ALL APPLICABLE CONDITIONS EVEN IF NOT SPECIFICALLY SHOWN OR REFERENCED.
9. SEE STRUCTURAL DRAWINGS FOR ACTUAL STRUCTURAL STEEL AND BEARING ELEVATIONS.
10. REFER TO ARCHITECTURAL SITE PLAN FOR THE LAYOUT OF CONCRETE WALKS, MOW STRIPS, PAVING PATTERNS, ETC. IN THE BUILDING VICINITY. REFER TO CIVIL DRAWINGS FOR THE CONTINUATION OF THIS WORK.
11. UNLESS NOTED OTHERWISE, WALLS SHALL EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH GENERAL PLAN NOTE #2 ON SHEET A-1.1 AND WALL TERMINATION DETAILS ON WALL TYPE SHEET.
12. AT ALL OUTSIDE CORNERS OF INTERIOR CMU WALLS, COLUMN ENCLOSURES, PIPE CHASES OR OTHER WALL PROJECTIONS, PROVIDE MASONRY UNITS AND/OR GLAZED MASONRY UNITS WITH BULLNOSED (ROUNDED) EDGES WITH 1" RADIUS, UNLESS OTHERWISE NOTED OR WHERE SCHEDULED TO RECEIVE CERAMIC TILE. WHERE MASONRY CORNERS ALIGN WITH BULKHEADS, TRANSITION FROM BULLNOSE CORNER UNITS TO SQUARE CORNER UNITS.
13. UNLESS SPECIFICALLY NOTED OTHERWISE, ENCLOSE ALL VERTICAL MECHANICAL PIPES, RAIN LEADERS, ETC. WITH 4" CMU OR GYPSUM BOARD TO MATCH SURROUNDING FINISHES.
14. REFER TO PLANS AND ELEVATIONS FOR LOCATIONS OF CONTROL JOINTS (C.J.) AND EXPANSION JOINTS (E.J.) IN EXTERIOR MASONRY WALLS. IF A CONFLICT EXISTS BETWEEN JOINT LOCATIONS SHOWN ON THE ELEVATIONS AND PLANS, CONSULT THE ARCHITECT FOR CLARIFICATION PRIOR TO CONSTRUCTION. REFER TO FLOOR PLANS FOR LOCATIONS OF CONTROL JOINTS (C.J.) IN INTERIOR MASONRY WALLS.
15. ALL EXTERIOR CAVITY WALLS TO HAVE THRU-WALL FLASHING AT THE BOTTOM OF THE CAVITY WITH WEEP HOLES TO THE OUTSIDE. ALL FLASHING BUILT INTO WALLS SHALL BE LAPPED AND SEALED. REFER TO FLASHING DETAILS INDICATED.
16. REFER TO BUILDING ELEVATIONS AND ELEVATION DETAILS FOR MASONRY PATTERNS.
17. INCLUDE PROJECTIONS, BEAM ENCLOSURES, RECESSES, BULKHEADS, PILASTERS AND SIMILAR ENCLOSURES AS PART OF WALL AND CEILING FINISHES AS SCHEDULED.
18. ALL APPURTENANCES BUILT INTO OR THROUGH WALLS, INCLUDING DOORS, DUCTS, WINDOWS, LOUVERS, GRILLES, MECHANICAL WORK, ETC. SHALL FIT TIGHT AND BE THOROUGHLY SEALED AROUND PERIMETERS. WORK AT EXTERIOR WALLS SHALL BE FLASHED OR OTHERWISE WATERPROOF SEALED.
19. SEE FURNISHING PLANS (A-9 SERIES) FOR CASEWORK, CABINETS, LOCKERS, DISPLAY BOARDS AND CASES AND SIMILAR ITEMS.
20. FIELD CHECK ROUGH AND/OR FINISHED DIMENSIONS FOR ACCURATE FITTING OF CABINETS, COUNTERS, LOCKERS, DOORS, WINDOWS, FIXTURES, SHELVING, GATES AND OTHER INSTALLATIONS PRIOR TO SHOP OR FACTORY FABRICATION. PROVIDE FILLER STRIPS, SCRIBE STRIPS, BASES, CLOSURE FINISHES AND TRIM FOR A COMPLETE INSTALLATION.
21. PROVIDE APPROPRIATE TRANSITION STRIPS AT CHANGES IN FLOOR ELEVATIONS.
22. EACH CONTRACTOR SHALL REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND BE RESPONSIBLE FOR WORK PERTAINING TO THEIR PARTICULAR TRADE. ALL CONTRACTORS SHALL COORDINATE THE WORK OF ALL TRADES AND FIELD CHECK AGAINST ANY CONFLICTS BETWEEN DRAWINGS. REPORT CONFLICTS TO THE ARCHITECT FOR CLARIFICATION.
23. REFER TO PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DESCRIPTIONS OF ACCESS PANELS, LOUVER OPENINGS, VENTILATORS, GRILLES, VALVE CABINETS, FIRE DAMPERS OR OTHER APPURTENANCES AFFECTING WALLS, CEILINGS OR FLOORS. PROVIDE NECESSARY LINTELS, SUPPORT AND ANCHORAGE. SEE STRUCTURAL NOTES FOR LINTEL REQUIREMENTS.
24. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS OF CONCRETE PADS TO BE PROVIDED BELOW OR AROUND EQUIPMENT.
25. INSTALL ELECTRIC SWITCHES, OUTLETS, THERMOSTATS, CONTROLS, CLOCKS, SPEAKERS, FLAGPOLE HOLDERS AND OTHER WALL-MOUNTED ACCESSORIES IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, DISPLAY BOARDS, FIXTURES, SHELVING OR OTHER FURNISHINGS OR EQUIPMENT DESIGNATED FOR SPACES SHOWN ON DRAWINGS. THESE DEVICES ARE SHOWN ON THE ARCHITECTURAL DRAWINGS TO ALERT OTHER SUB-CONTRACTORS OF THEIR PRESENCE. COORDINATE INSTALLATION WITH THE ELECTRICAL DRAWINGS. ADVISE THE ARCHITECT OF CONFLICTS IN LOCATION OR TYPES OF DEVICES SHOWN PRIOR TO INSTALLATION. DO NOT INSTALL WALL-MOUNTED ITEMS ON, THROUGH OR INTO ANY EQUIPMENT UNLESS INDICATED.
26. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.

KEY PLAN



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OVERALL PLAN - FIRST FLOOR
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.5
03/13/2017
BID SET

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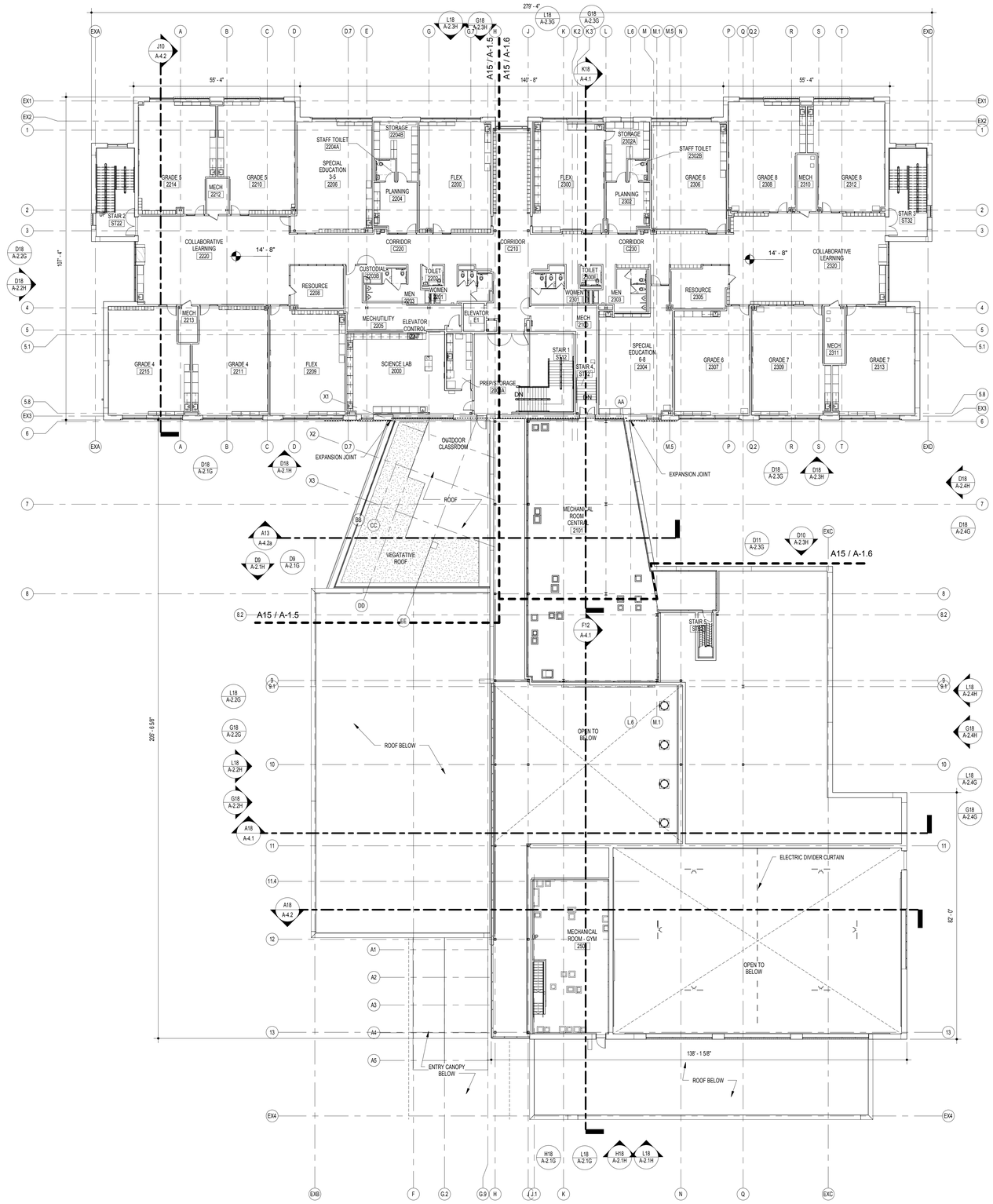

A14 OVERALL SECOND FLOOR PLAN
1/16" = 1'-0"

SECOND FLOOR TOTAL AREA:
31,027 SF

Scale: 1 inch = 16 feet
0 8' 16' 32' 48'

GENERAL NOTES

(NOTES APPLY TO ALL DRAWINGS)

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

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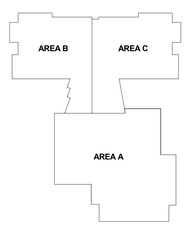
26. MOUNT ELECTRIC SWITCHES, THERMOSTATS AND OTHER ELECTRONIC CONTROLS LOCATED IN THE SAME VICINITY AT THE SAME HEIGHT ABOVE FINISHED FLOOR IN A UNIFORM, ORDERLY FASHION UNLESS NOTED OTHERWISE.

KEY PLAN



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OVERALL PLAN - SECOND FLOOR

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.6

03/13/2017
BID SET

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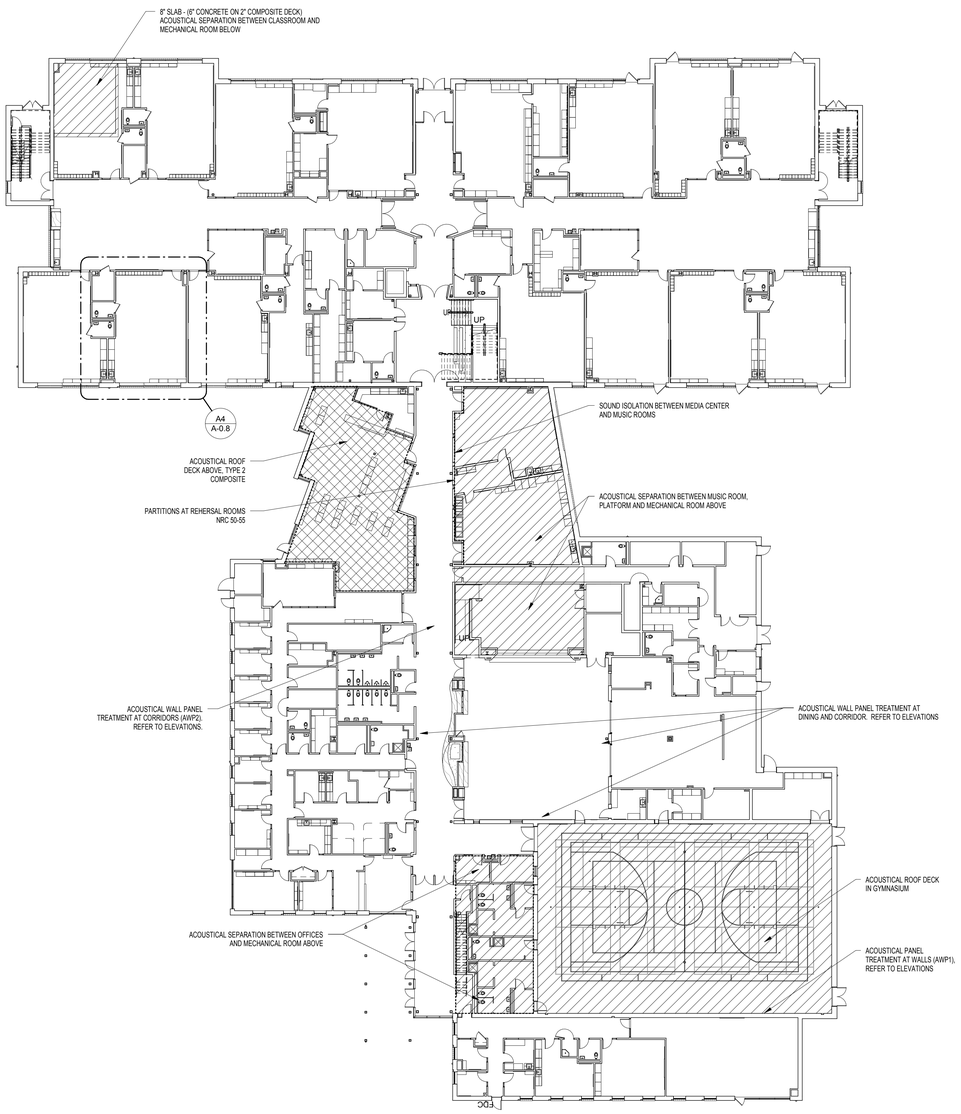
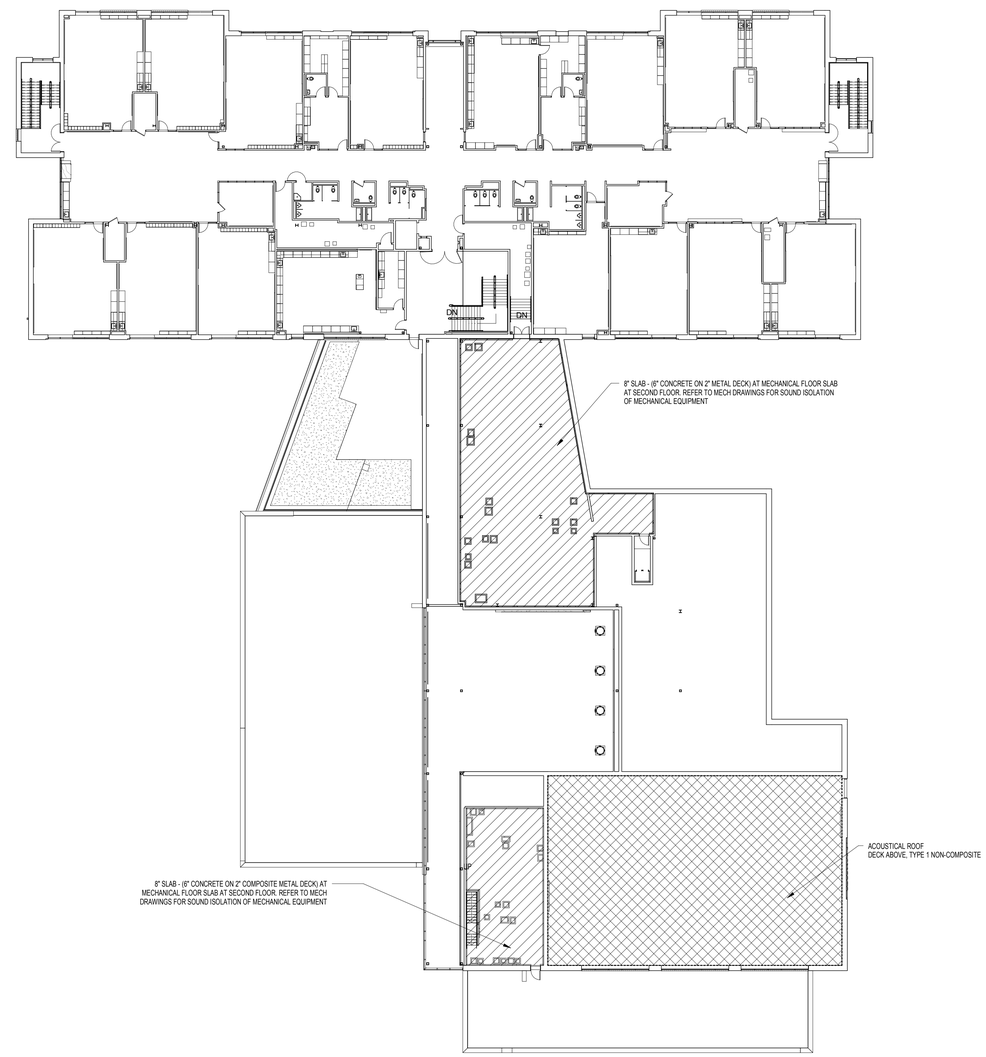


E17 OVERALL FIRST FLOOR ACOUSTICAL PLAN
1" = 20'-0"



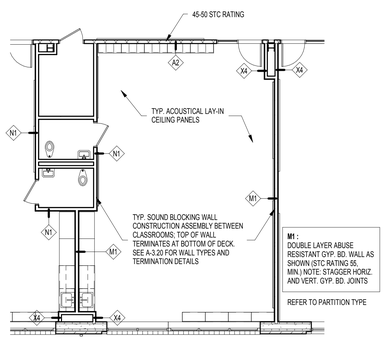
E9 OVERALL SECOND FLOOR ACOUSTICAL PLAN
1" = 20'-0"

RECOMMENDED REVERATION TIMES FOR UNOCCUPIED SPACES

ADJACENCY	RECOMMENDED RT60 (SECONDS)
PRIVATE OFFICE	0.4 - 0.6
LOBBIES / RECEPTION AREAS	0.6 - 1.0
GYMNASIUM	1.0 - 1.5
DINING ROOM	< 1.0
RESOURCE ROOMS	0.4 - 0.6
CLASSROOMS	0.4 - 0.6
COLLABORATIVE LEARNING AREAS	0.6 - 0.9
MEDIA CENTER	0.6 - 0.9
REHEARSAL ROOMS	0.6 - 1.0
CONFERENCE ROOMS	0.3 - 0.5
COMMUNITY LEARNING CENTER	0.6 - 0.9
LOUNGES	0.6 - 0.9
STUDIOS AND LABORATORIES	0.5 - 0.9

RECOMMENDED STC VALUES FOR PARTITIONS

ADJACENCY		RECOMMENDED STC RANGE
GYMNASIUM	CORRIDOR	35 - 40
	DINING ROOM	50 - 55
COMMUNITY LEARNING CENTER	CONFERENCE ROOM	50 - 55
	CORRIDOR	35 - 40
CONFERENCE ROOMS	RECEPTION AREA	50 - 55
	PRIVATE OFFICE	50 - 55
	CORRIDOR	50 - 55
DINING ROOM	PRIVATE OFFICE	50 - 55
	RESTROOMS	50 - 55
	MECHANICAL*	60 - 65
PRIVATE OFFICE	PRIVATE OFFICE	45 - 50
	RESOURCE ROOM	45 - 50
	CORRIDOR	40 - 45
	RECEPTION AREA	45 - 50
	RESTROOMS	50 - 55
REHEARSAL ROOM	REHEARSAL ROOM	50 - 55
	CLASSROOMS/ LABS	45 - 50
	CORRIDOR	50 - 55
CLASSROOMS / LABS	CLASSROOMS/ LABS	45 - 50
	RESTROOMS	50 - 55
	CORRIDORS	45 - 50
	RESOURCE ROOMS	45 - 50
	MECHANICAL ROOMS*	60 - 65



A4 TYPICAL CLASSROOM ACOUSTICAL TREATMENT
1/8" = 1'-0"

DRAWINGS ON THIS PAGE GRAPHICALLY ILLUSTRATE AREAS OF SPECIALIZED ACOUSTICAL TREATMENT. REFER TO SPECIFICATIONS AND OTHER DRAWING SHEETS FOR DETAILED INFORMATION.

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ACOUSTICAL ATTENUATION DIAGRAMS

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-0.8
03/13/2017
BID SET

© GRIMM AND PARKER, P.C. 2014

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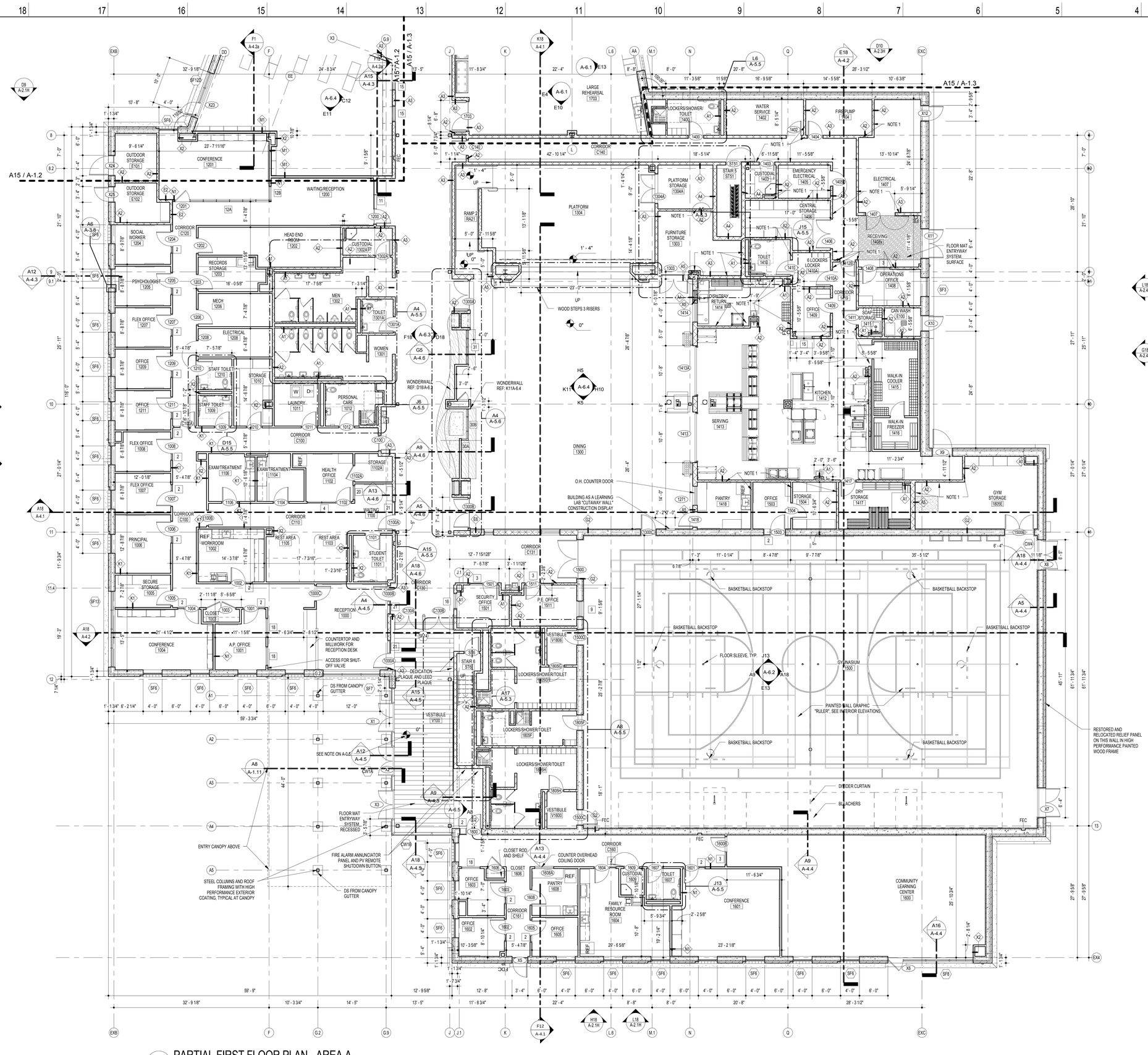


A16 PARTIAL FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

Scale: 1 inch = 8 feet

0 4' 8' 16' 24' 32'

KEY NOTES FOR PLANS

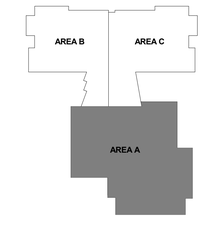
1. WALLS EXTEND TO 10'-8" AFF

GENERAL PLAN NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. REFER TO SHEET A-3.20 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL. UNLESS REFERENCED OTHERWISE, ALL INTERIOR CMU WALLS ARE THE TYPE A2 AND ALL INTERIOR GYPSUM BOARD WALLS ARE TYPE X1.
2. UNLESS NOTED OTHERWISE, WALLS SHALL EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS SHALL BE BUILT TO RESIST THE PASSAGE OF SMOKE.
3. REFER TO WALL SECTIONS AND DETAILS FOR EXTERIOR WALL TYPES AND CONSTRUCTION.
4. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
5. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
6. REFER TO FURNISHING PLANS FOR CASEWORK, MILLWORK DISPLAY BOARDS, SHELVING UNITS, TV MOUNTING BRACKETS, LOCKERS, FURNITURE, ETC. (A-9 SERIES).
7. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
8. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING SHALL CONTINUE OVER THE DOOR OR OPENING.
9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
10. REFER TO A-5 SERIES FOR TYPICAL MASONRY DETAILS.
11. NOT USED
12. ALL INTERIOR FACES OF ICF WALL (EPS FOAM) TO BE CONTINUOUSLY COVERED WITH 5/8" GYP. BOARD. ALL PENETRATIONS SEALED.
13. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS OF STUD WALLS AND INTERIOR ICF WALLS WHERE GYPSUM BOARD IS EXPOSED.

KEY PLAN



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PARTIAL FIRST FLOOR PLAN - AREA A

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.1

03/13/2017
BID SET

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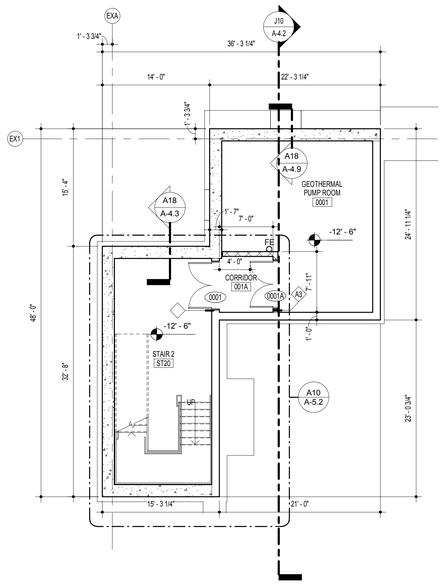
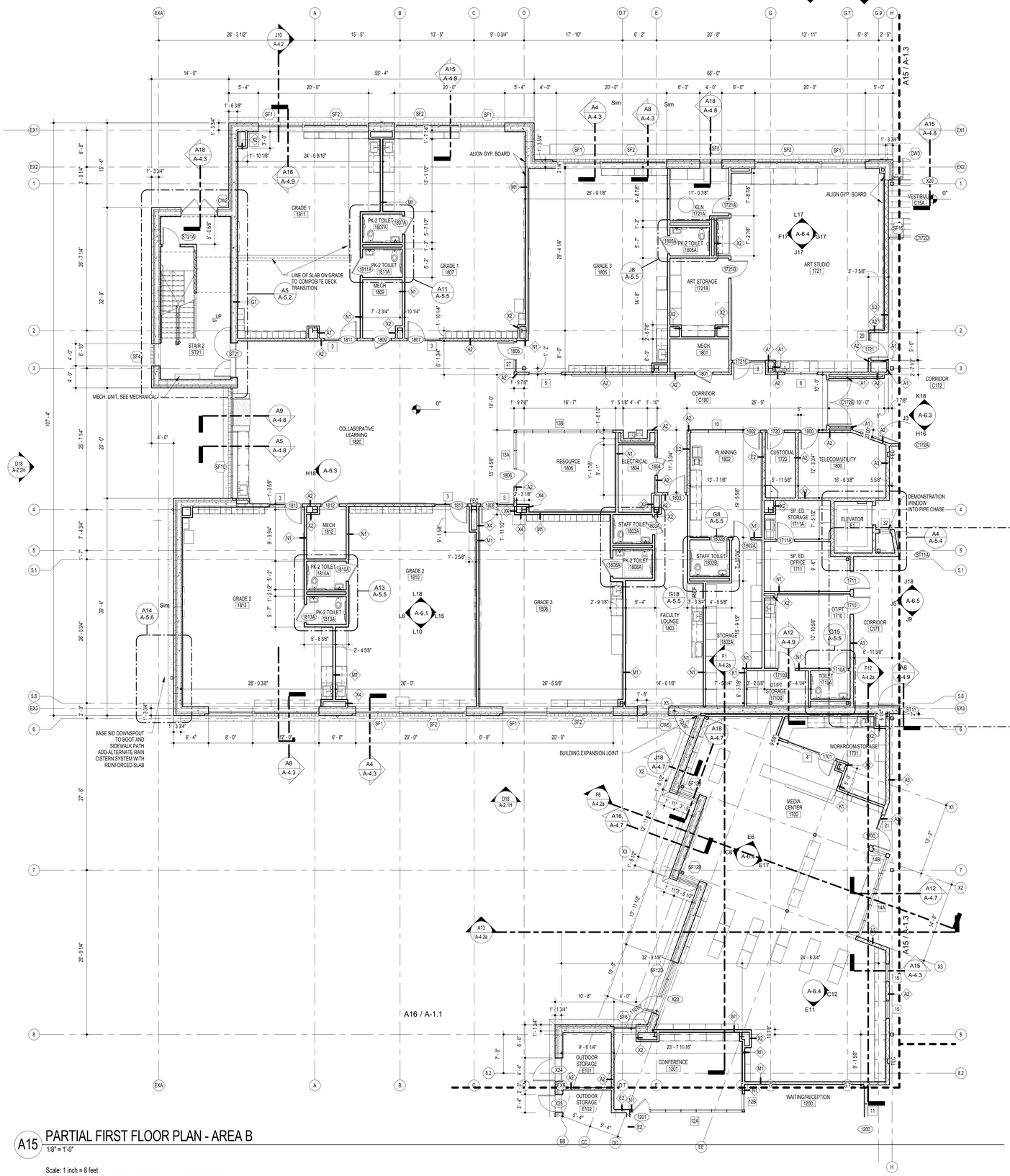


G18 PARTIAL BASEMENT FLOOR PLAN - AREA B

1/8" = 1'-0"



A15 PARTIAL FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"

Scale: 1 inch = 8 feet

0 4' 8' 16' 24' 32'

GENERAL PLAN NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

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2. UNLESS NOTED OTHERWISE, WALLS SHALL EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS SHALL BE BUILT TO RESIST THE PASSAGE OF SMOKE.
3. REFER TO WALL SECTIONS AND DETAILS FOR EXTERIOR WALL TYPES AND CONSTRUCTION.
4. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
5. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
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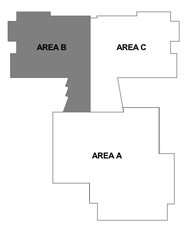
7. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
8. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING SHALL CONTINUE OVER THE DOOR OR OPENING.
9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
10. REFER TO A-5 SERIES FOR TYPICAL MASONRY DETAILS.
11. NOT USED
12. ALL INTERIOR FACES OF ICF WALL (EPS FOAM) TO BE CONTINUOUSLY COVERED WITH 5/8" GYP. BOARD. ALL PENETRATIONS SEALED.
13. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS OF STUD WALLS AND INTERIOR ICF WALLS WHERE GYPSUM BOARD IS EXPOSED.

KEY PLAN



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PARTIAL FIRST FLOOR PLAN - AREA B

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.2

03/13/2017
BID SET

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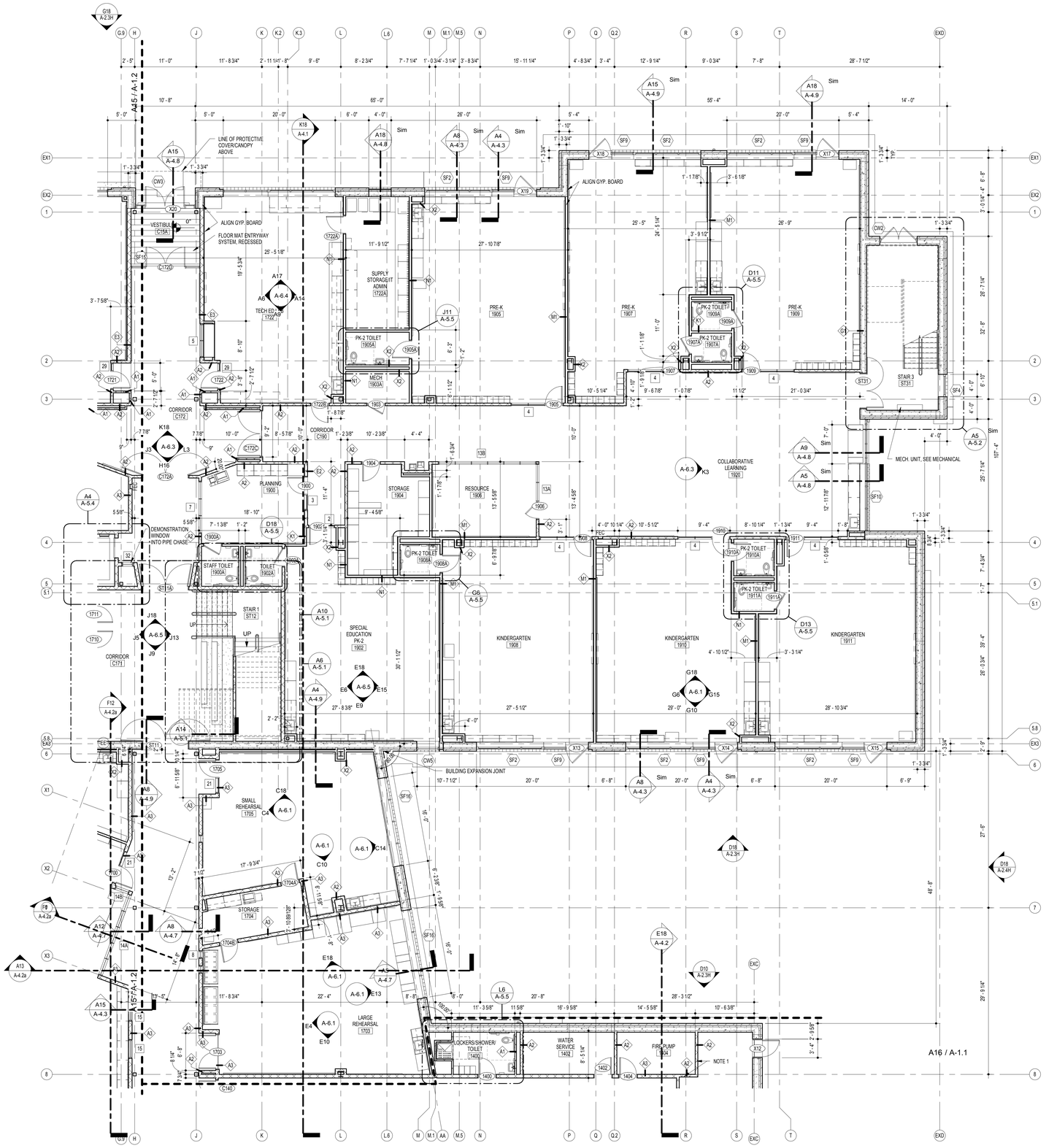

A15 PARTIAL FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

Scale: 1 inch = 8 feet
0 4' 8' 16' 24' 32'

KEY NOTES FOR PLANS

1. WALLS EXTEND TO 10'-8" AFF

GENERAL PLAN NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

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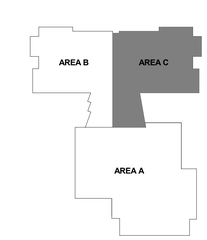
KEY PLAN



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PARTIAL FIRST FLOOR PLAN - AREA C

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.3

03/13/2017
BID SET

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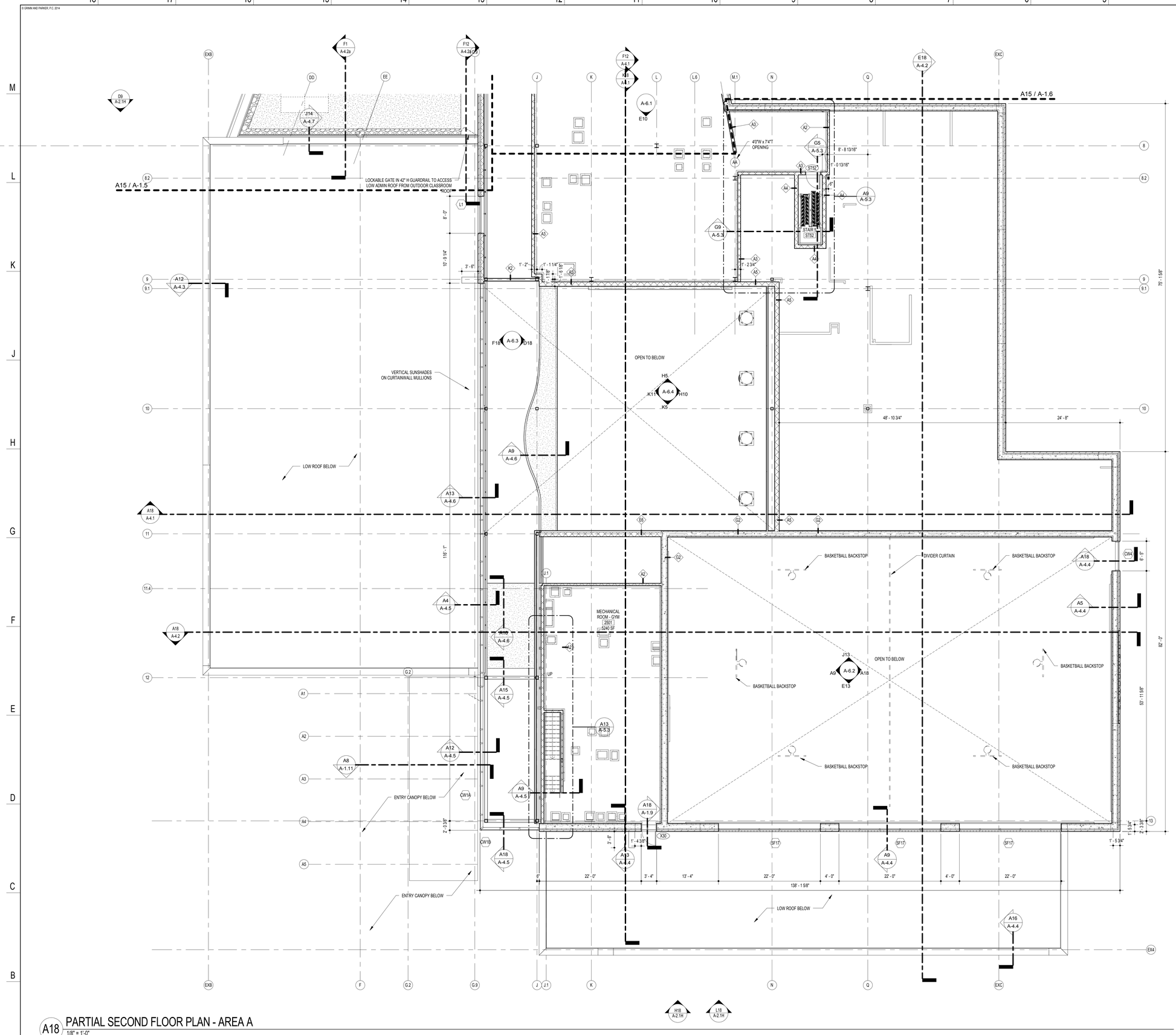

A18 PARTIAL SECOND FLOOR PLAN - AREA A

1/8" = 1'-0"

Scale: 1 inch = 8 feet

0 4' 8' 16' 24' 32'

GENERAL PLAN NOTES

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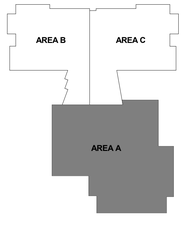

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PARTIAL SECOND FLOOR PLAN - AREA A

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.4

03/13/2017
BID SET

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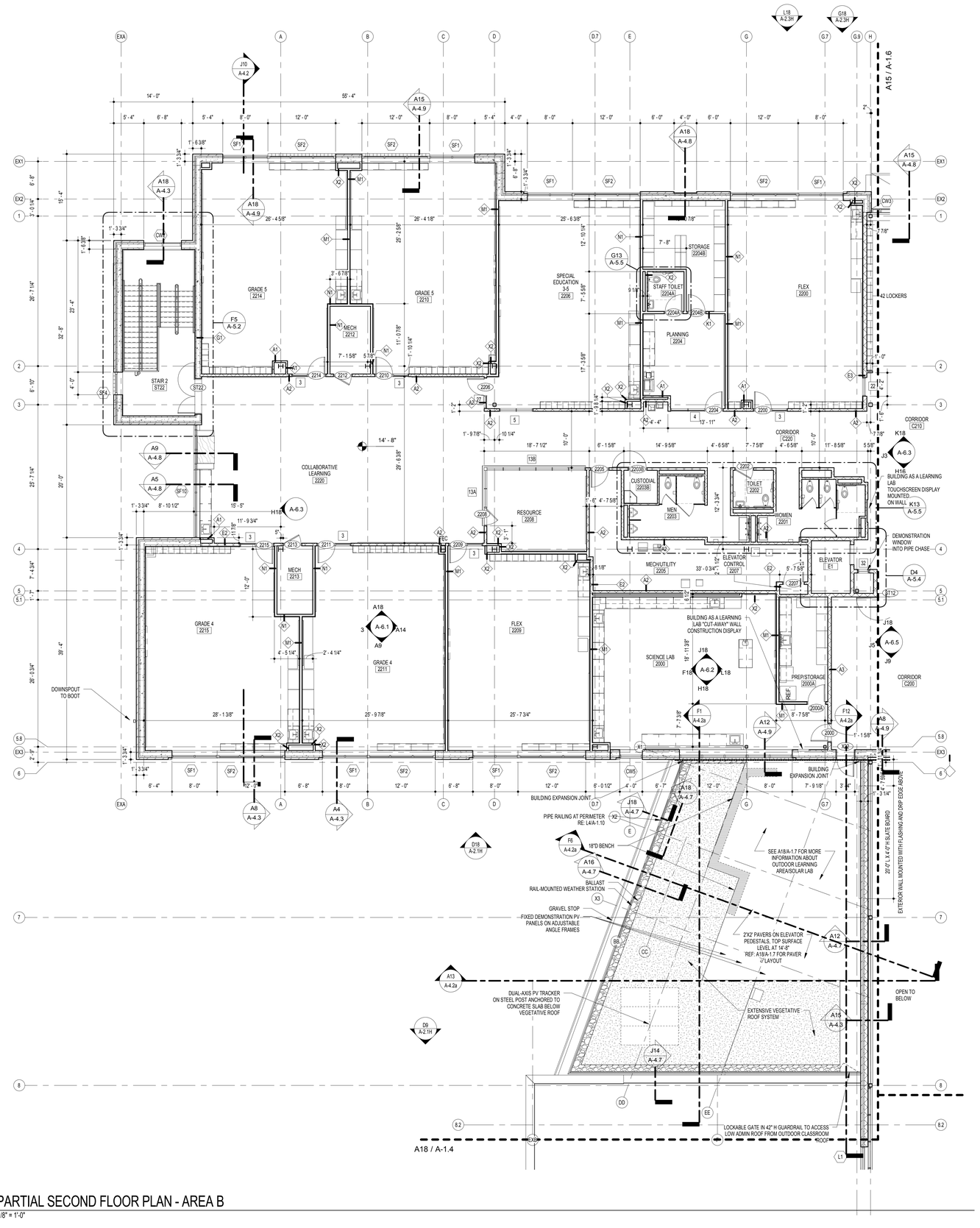

A15 PARTIAL SECOND FLOOR PLAN - AREA B

1/8" = 1'-0"

Scale: 1 inch = 8 feet

0 4' 8' 16' 24' 32'

GENERAL PLAN NOTES

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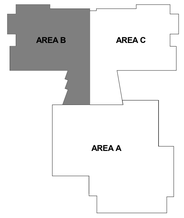

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PARTIAL SECOND FLOOR PLAN - AREA B

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.5

03/13/2017
BID SET

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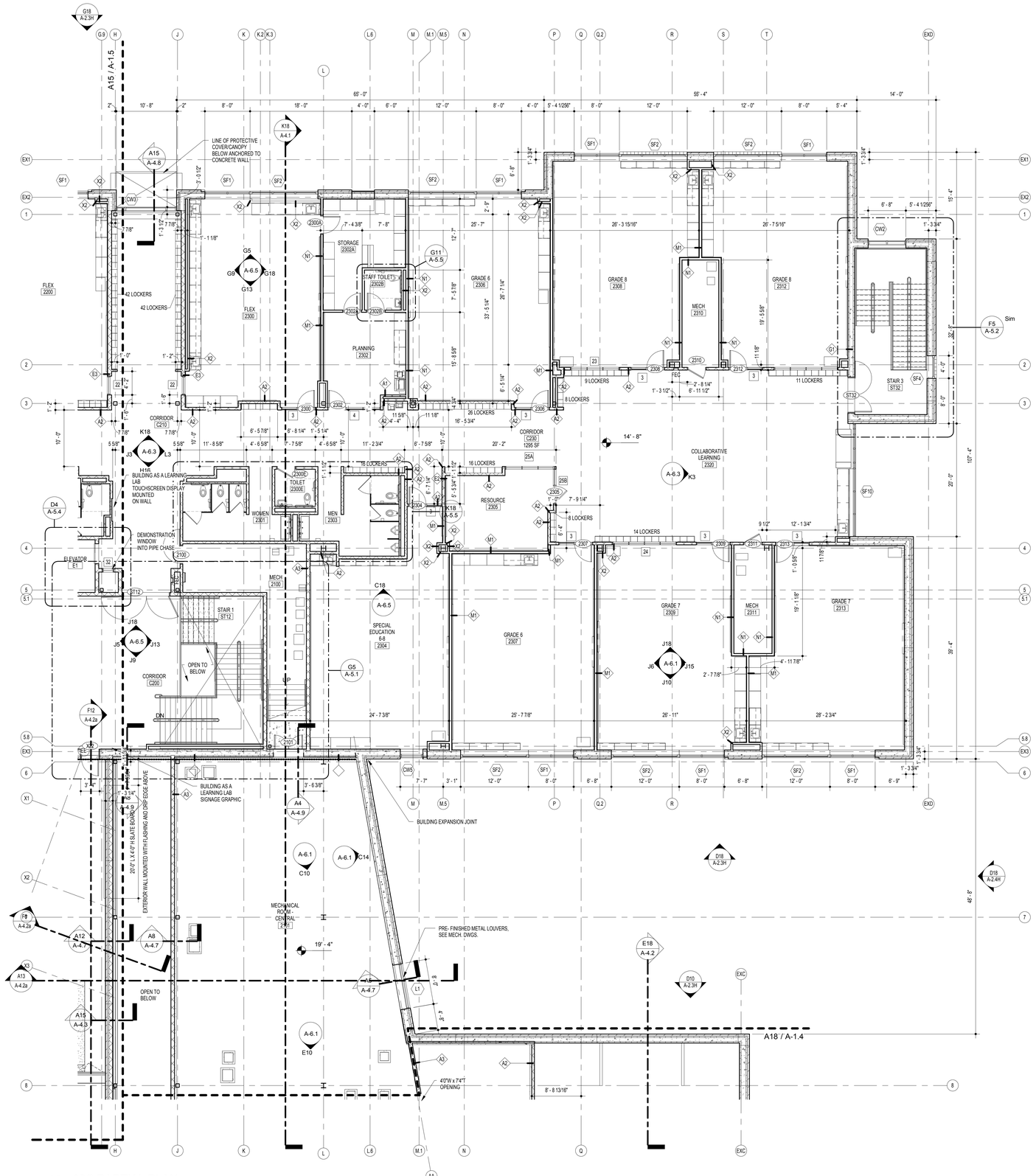

A15 02C PARTIAL PLAN
1/8" = 1'-0"

Scale: 1 inch = 8 feet
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GENERAL PLAN NOTES

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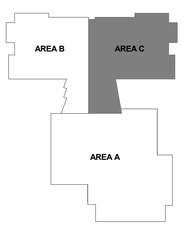

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PARTIAL SECOND FLOOR PLAN - AREA C

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.6

03/13/2017
BID SET

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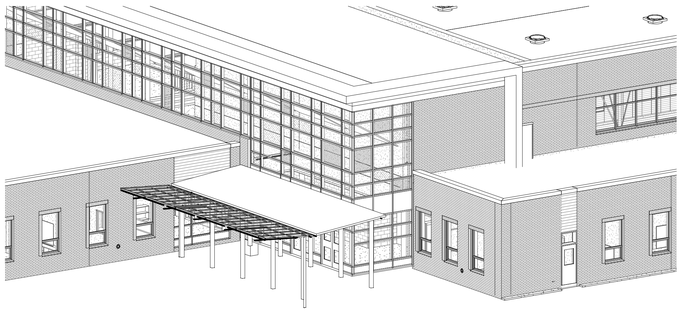
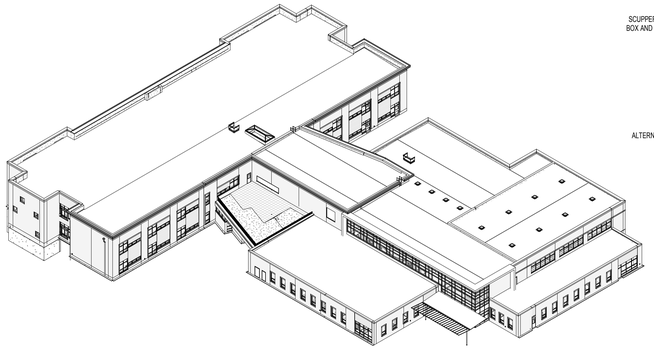
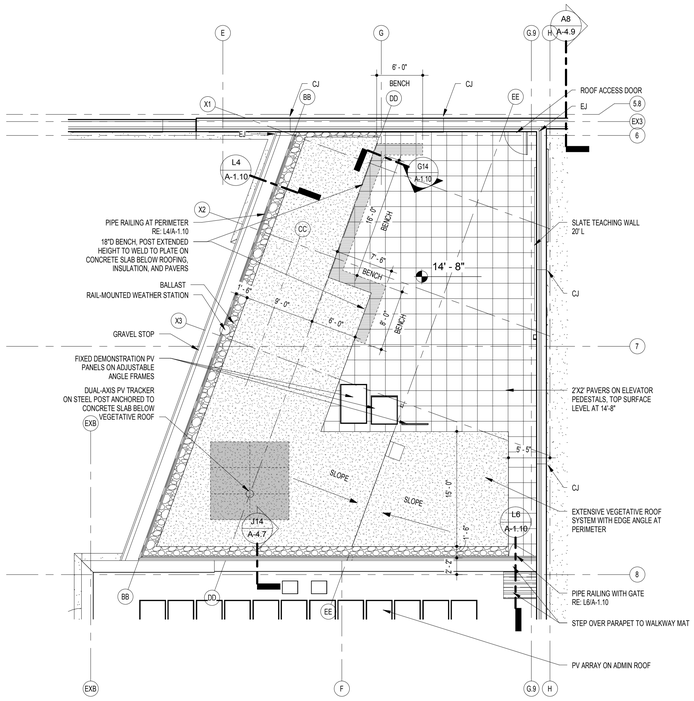


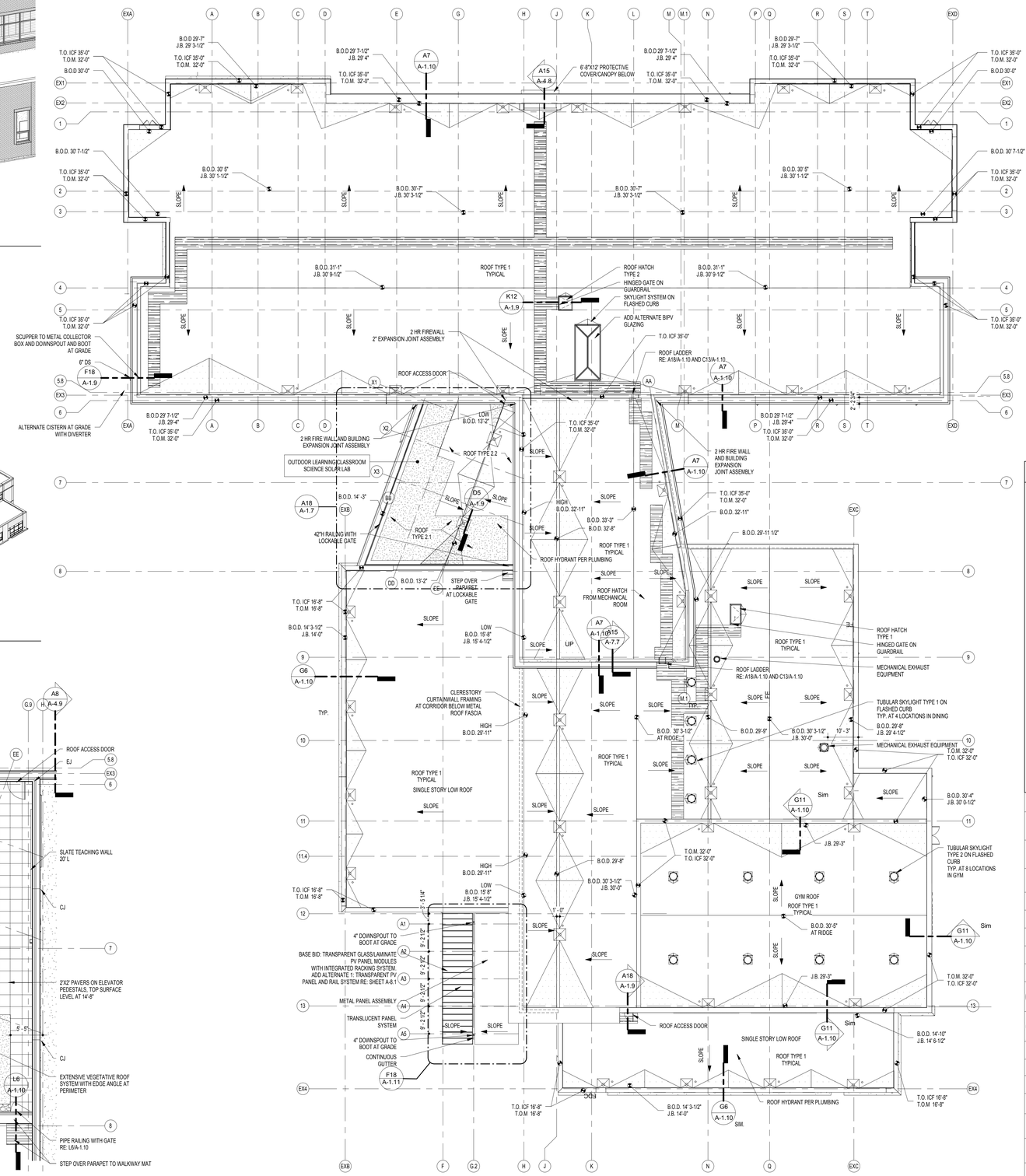
K18 AXON ENTRY CANOPY



G18 AXON AERIAL



A18 ENLARGED ROOF PLAN DETAIL - SOLAR LAB/OUTDOOR LEARNING CLASSROOM
1/8" = 1'-0"



A11 ROOF PLAN
1/16" = 1'-0"

Scale: 1 inch = 16 feet
0 8' 16' 32' 48' 64'

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GENERAL VIEW NOTE

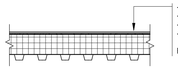
(NOTES APPLY TO ALL 3D VIEWS)

THIS AXONOMETRIC OR PERSPECTIVE VIEW IS TO AID IN THE GENERAL VISUALIZATION OF THE PROJECT. SOME ELEMENTS MAY BE MISSING FOR CLARITY.

FOR CONSTRUCTION DETAILS, REFERENCE THE PLANS, SECTIONS, AND ENLARGED DETAILS AS WELL AS ENGINEERING DRAWINGS.

ROOF TYPES

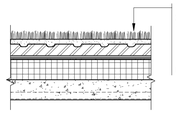
ROOF TYPE-1 (TYPICAL): ADHERED MEMBRANE ROOF



- ADHERED MEMBRANE TPO SHEET ROOFING
- COVER BOARD
- ROOF INSULATION
- METAL DECK ON STRUCTURE

R-VALUE: 30.78

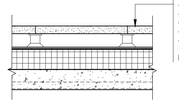
ROOF TYPE-2.1: VEGETATED ROOF



- VEGETATIVE ROOF SYSTEM (SEE VEGETATIVE ROOF PLAN FOR EXTENT)
- ADHERED MEMBRANE TPO SHEET ROOFING
- COVER BOARD
- ROOF INSULATION
- CONCRETE SLAB ON METAL DECK ON STRUCTURE

R-VALUE: 32.66

ROOF TYPE-2.2: WALKWAY ROOF PAVERS



- ROOF PAVER W/ HEIGHT ADJUSTABLE PEDESTAL
- ADHERED MEMBRANE TPO SHEET ROOFING
- COVER BOARD
- ROOF INSULATION
- CONCRETE SLAB ON METAL DECK ON STRUCTURE

R-VALUE: 32.66

TYPICAL ROOF NOTES

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1. DETAILS INDICATED ARE TYPICAL FOR ALL SIMILAR ROOFING CONDITIONS UNLESS OTHERWISE INDICATED.
2. UNLESS OTHERWISE NOTED, MINIMUM ROOF SLOPE IS 1/4" PER FOOT. PROVIDE TAPERED INSULATION (EVEN IF NOT SHOWN ON THIS PLAN) AS REQUIRED TO MAINTAIN MINIMUM REQUIRED SLOPE TO ROOF DRAINS AND ELIMINATE ANY AREAS OF POTENTIAL STANDING WATER. PROVIDE TAPERED INSULATION (MINIMUM 1/4" PER FOOT SLOPE) AT ALL CRICKETS INDICATED TO DRAINS. COORDINATE HEIGHTS OF ALL FLASHINGS AND EXPANSION JOINT CAPS WITH TAPERED INSULATION TO MAINTAIN MINIMUM DIMENSIONS DETAILED.
3. ALL ROOF PENETRATIONS AND ACCESSORIES (DRAINS, VENTS, ETC.) ARE TO BE INSTALLED AND FLASHED IN COMPLIANCE WITH THE CURRENT EDITIONS OF N.R.C.A. ROOFING AND WATERPROOFING MANUAL AND S.M.A.C.N.A. (ARCHITECTURAL SHEET METAL MANUAL)
4. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ITEMS (INCLUDING UNIT SIZES AND LOCATIONS) NOT SHOWN OR SCHEMATICALLY SHOWN ON ROOF PLANS.
5. CURBS FOR ROOF TOP MECHANICAL EQUIPMENT ARE PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO TYPICAL CURB FLASHING DETAIL FOR BLOCKING AND FLASHING REQUIREMENTS. PROVIDE ALL BLOCKING NECESSARY TO ACHIEVE LEVEL MECHANICAL CURBS AT ALL LOCATIONS. MAINTAIN MINIMUM 8" FROM TOP OF CURB TO ADJACENT ROOF. PROVIDE TAPERED CRICKETS (MINIMUM 1/2" PER FOOT SLOPE) AROUND ALL MECHANICAL EQUIPMENT CURBS.
6. THE ROOF DRAIN AND MECHANICAL UNIT LOCATIONS SHOWN ON THE ROOF PLAN ARE APPROXIMATE. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS.
7. PRIOR TO FLASHING OVERFLOW ROOF SCUPPERS AND ROOF DRAIN, ROOFING CONTRACTOR SHALL BE REQUIRED TO CONFIRM MAXIMUM DRAIN PIPE HEIGHT OF 3" ABOVE ROOF IN ACCORDANCE WITH PLUMBING DRAWINGS.
8. START TAPERED INSULATION AT SUMP PLATES. INSULATION SHALL BE TAPERED DOWN FROM ALL (4) SIDES OF INDICATED SUMP. REFERENCE TYPICAL ROOF DRAIN DETAIL A15/A-1.9.
9. IN ACCORDANCE WITH SPECIFICATION SECTION #07620 SHEET METAL, FLASHING AND TRIM, ROOFING CONTRACTOR SHALL BE REQUIRED TO PROVIDE RECEIVER FLASHING TO MASONRY CONTRACTOR FOR INSTALLATION. ROOFER TO SOLDER JOINTS IN STAINLESS STEEL FLASHING.
10. PROVIDE WALKWAY PROTECTION WHERE INDICATED AND AT ALL SIDES OF MECHANICAL ROOF TOP UNITS REQUIRING SERVICE AND AT TOP AND BOTTOM OF ALL ROOF STAIRS.
11. ALL ROOF TOP EQUIPMENT (EXCLUDING PREFINISHED ITEMS) SHALL BE FIELD PAINTED.
12. WHERE INDICATED, REFER TO PLUMBING DRAWINGS FOR RADON PIPE DETAIL. FLASHING SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FRT WOOD BLOCKING AS REQUIRED TO ACCOMMODATE ALL PROFILES OF FINISHED ROOFING INCLUDING AT CRICKETS AND TAPERED INSULATION AT WALLS, PARAPETS AND GRAVEL STOPS. GRAVEL STOPS AT GUTTERS TO BE STAINLESS STEEL WITH SOLDERED JOINTS.
14. COORDINATE HOSE BIB LOCATIONS ON ROOF WITH MEP PLANS.

ROOF SYMBOLS KEY

	ROOF DRAIN WITH TAPERED INSULATION - TYP. SUMP SHALL BE 4'-0" X 3'-0" RE: A8/A-1.9 SIMILAR
	ROOF DRAIN WITH TAPERED INSULATION - TYP. SUMP SHALL BE 4'-0" X 4'-0" SEE DETAIL FOR OVERFLOW AT EACH DRAIN, RE: A8/A-1.9
	DIRECTION OF SLOPE FROM HIGH POINT - ROOF SLOPES @ 1/4" PER FOOT, MINIMUM, UNLESS OTHERWISE NOTED
T.O.M. X'-X"	TOP OF MASONRY
T.O. ICF X'-X"	TOP OF ICF (INSULATED CONCRETE FORM WALL)
T.O.S. X'-X"	TOP OF STEEL
J.B. X'-X"	JOIST BEARING
B.O.D. X'-X"	BOTTOM OF DECK
1 A101 SIM	DETAIL @ TOP OF WALL
1 A101 SIM	DETAIL @ LOW ROOF WALL - FLASHING CONDITION
	ROOF HATCH
DS	DOWNSPOUT DOWN TO CAST IRON DOWNSPOUT BOOT AT GRADE - SEE CIVIL DRAWINGS FOR CONNECTION
O.S.	OVERFLOW SCUPPER - SEE DETAIL F8/A-1.9
	PHOTOVOLTAIC PANELS (PV)
	BALLAST AT PERIMETER OF VEGETATIVE ROOF
	ROOF WALKWAY - 36" WIDE CARPSHEET ADHERED TO ROOF PER MANUFACTURER'S RECOMMENDATIONS AT LOW SLOPE ROOF.
	EXTENSIVE VEGETATIVE ROOF
	24"x24" PAVERS ONE ADJUSTABLE ELEVATOR PEDESTALS AT OUTDOOR CLASSROOM
	TUBULAR SKYLIGHT, TYPES 1 AND 2

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G+P GRIMM AND PARKER

GP# 21553

ROOF PLAN

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.7

03/13/2017
BID SET

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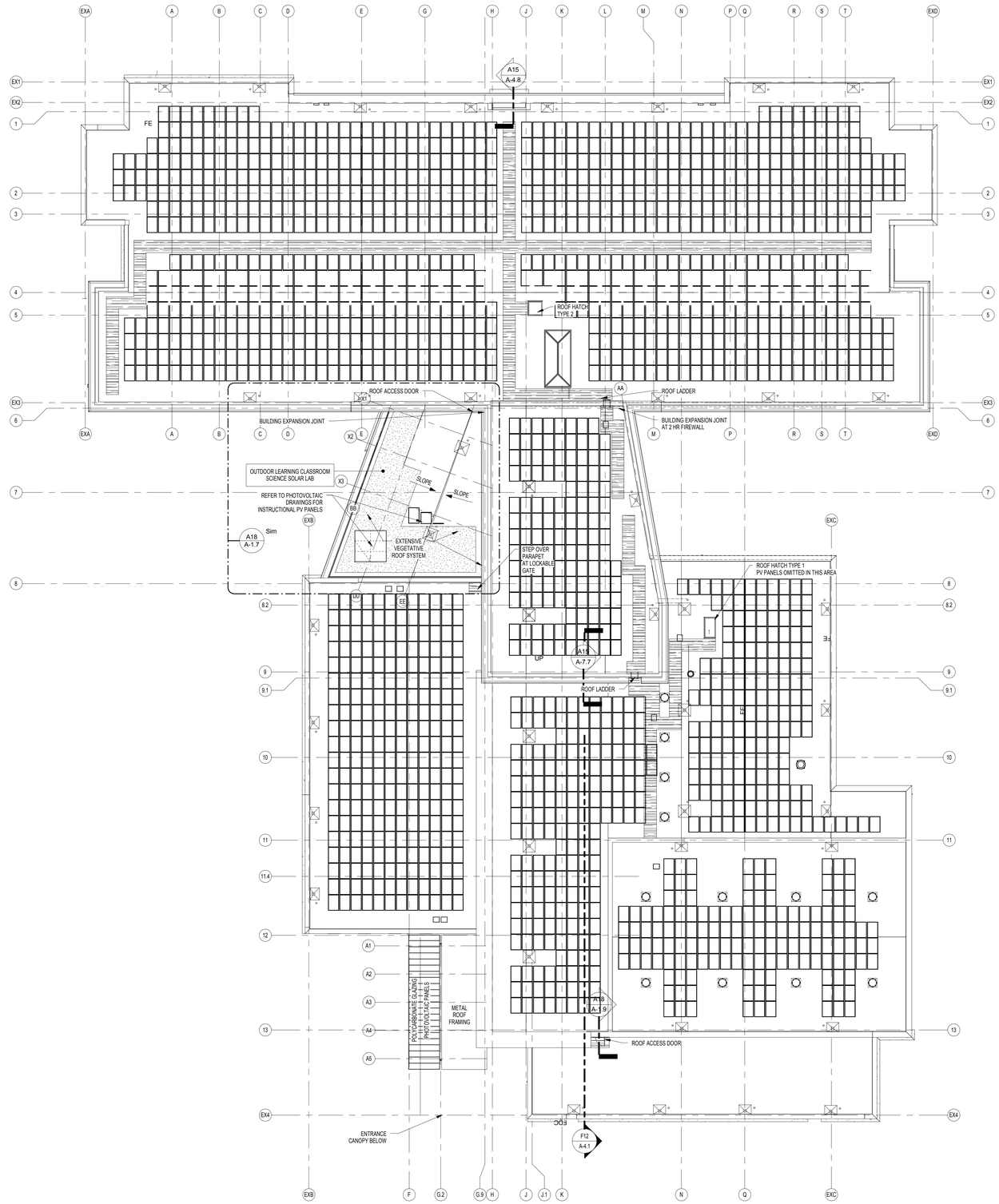
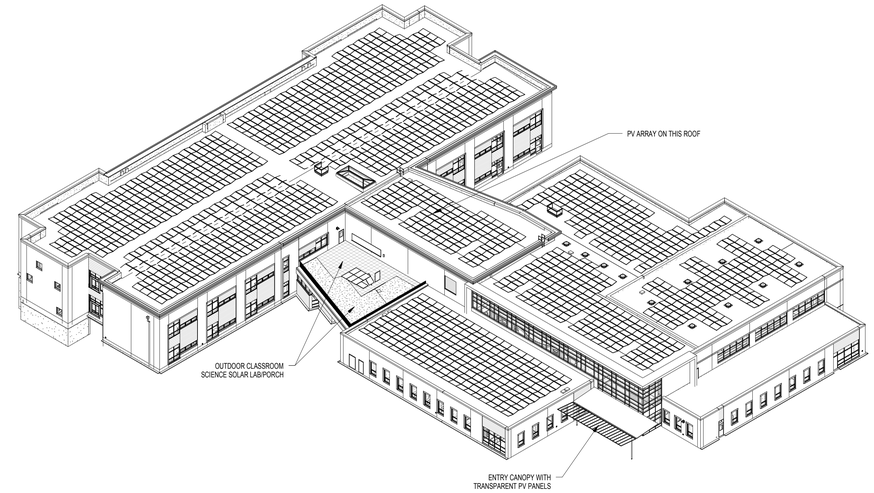


A18 ROOF PLAN - PV LAYOUT
1/16" = 1'-0"



J9 BUILDING AXON

TYPICAL ROOF NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. DETAILS INDICATED ARE TYPICAL FOR ALL SIMILAR ROOFING CONDITIONS UNLESS OTHERWISE INDICATED.
2. UNLESS OTHERWISE NOTED, MINIMUM ROOF SLOPE IS 1/4" PER FOOT. PROVIDE TAPERED INSULATION (EVEN IF NOT SHOWN ON THIS PLAN) AS REQUIRED TO MAINTAIN MINIMUM REQUIRED SLOPE TO ROOF DRAINS AND ELIMINATE ANY AREAS OF POTENTIAL STANDING WATER. PROVIDE TAPERED INSULATION (MINIMUM 1/4" PER FOOT SLOPE) AT ALL CRICKETS INDICATED TO DRAINS. COORDINATE HEIGHTS OF ALL FLASHINGS AND EXPANSION JOINT CAPS WITH TAPERED INSULATION TO MAINTAIN MINIMUM DIMENSIONS DETAILED.
3. ALL ROOF PENETRATIONS AND ACCESSORIES (DRAINS, VENTS, ETC.) ARE TO BE INSTALLED AND FLASHED IN COMPLIANCE WITH THE CURRENT EDITIONS OF N.R.C.A. ROOFING AND WATERPROOFING MANUAL AND S.M.A.C.N.A. (ARCHITECTURAL SHEET METAL MANUAL)
4. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ITEMS (INCLUDING UNIT SIZES AND LOCATIONS) NOT SHOWN OR SCHEMATICALLY SHOWN ON ROOF PLANS.
5. CURBS FOR ROOF TOP MECHANICAL EQUIPMENT ARE PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO TYPICAL CURB FLASHING DETAIL FOR BLOCKING AND FLASHING REQUIREMENTS. PROVIDE ALL BLOCKING NECESSARY TO ACHIEVE LEVEL MECHANICAL CURBS AT ALL LOCATIONS. MAINTAIN MINIMUM 8" FROM TOP OF CURB TO ADJACENT ROOF. PROVIDE TAPERED CRICKETS (MINIMUM 1/2" PER FOOT SLOPE) AROUND ALL MECHANICAL EQUIPMENT CURBS.
6. THE ROOF DRAIN AND MECHANICAL UNIT LOCATIONS SHOWN ON THE ROOF PLAN ARE APPROXIMATE. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS.
7. PRIOR TO FLASHING OVERFLOW ROOF SCUPPERS AND ROOF DRAIN, ROOFING CONTRACTOR SHALL BE REQUIRED TO CONFIRM MAXIMUM DRAIN PIPE HEIGHT OF 3" ABOVE ROOF IN ACCORDANCE WITH PLUMBING DRAWINGS.
8. START TAPERED INSULATION AT SUMP PLATES. INSULATION SHALL BE TAPERED DOWN FROM ALL (4) SIDES OF INDICATED SUMP. REFERENCE TYPICAL ROOF DRAIN DETAIL A15/A-1.9.
9. IN ACCORDANCE WITH SPECIFICATION SECTION #07620 SHEET METAL, FLASHING AND TRIM, ROOFING CONTRACTOR SHALL BE REQUIRED TO PROVIDE RECEIVER FLASHING TO MASONRY CONTRACTOR FOR INSTALLATION. ROOFER TO SOLDER JOINTS IN STAINLESS STEEL FLASHING.
10. PROVIDE WALKWAY PROTECTION WHERE INDICATED AND AT ALL SIDES OF MECHANICAL ROOF TOP UNITS REQUIRING SERVICE AND AT TOP AND BOTTOM OF ALL ROOF STAIRS.
11. ALL ROOF TOP EQUIPMENT (EXCLUDING PREFINISHED ITEMS) SHALL BE FIELD PAINTED.
12. WHERE INDICATED, REFER TO PLUMBING DRAWINGS FOR RADON PIPE DETAIL. FLASHING SHALL BE IN ACCORDANCE WITH TYPICAL DETAILS.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FRT WOOD BLOCKING AS REQUIRED TO ACCOMMODATE ALL PROFILES OF FINISHED ROOFING INCLUDING AT CRICKETS AND TAPERED INSULATION AT WALLS, PARAPETS AND GRAVEL STOPS. GRAVEL STOPS AT GUTTERS TO BE STAINLESS STEEL WITH SOLDERED JOINTS.
14. COORDINATE HOSE BIB LOCATIONS ON ROOF WITH MEP PLANS.

ROOF SYMBOLS KEY

	ROOF DRAIN WITH TAPERED INSULATION - TYP. SUMP SHALL BE 4'-0" X 3'-0" RE: A8/A-1.9 SIMILAR
	ROOF DRAIN WITH TAPERED INSULATION - TYP. SUMP SHALL BE 4'-0" X 4'-0" SEE DETAIL FOR OVERFLOW AT EACH DRAIN, RE: A8/A-1.9
	DIRECTION OF SLOPE FROM HIGH POINT - ROOF SLOPES @ 1/4" PER FOOT, MINIMUM, UNLESS OTHERWISE NOTED
T.O.M. X'-X"	TOP OF MASONRY
T.O. ICF X'-X"	TOP OF ICF (INSULATED CONCRETE FORM WALL)
T.O.S. X'-X"	TOP OF STEEL
J.B. X'-X"	JOIST BEARING
B.O.D. X'-X"	BOTTOM OF DECK
1 SIM / A101	DETAIL @ TOP OF WALL
1 SIM / A101	DETAIL @ LOW ROOF WALL - FLASHING CONDITION
	ROOF HATCH
DS	DOWNSPOUT DOWN TO CAST IRON DOWNSPOUT BOOT AT GRADE - SEE CIVIL DRAWINGS FOR CONNECTION
O.S.	OVERFLOW SCUPPER - SEE DETAIL F/A-1.9
	PHOTOVOLTAIC PANELS (PV)
	BALLAST AT PERIMETER OF VEGETATIVE ROOF
	ROOF WALKWAY - 36" WIDE CAPSHEET ADHERED TO ROOF PER MANUFACTURER'S RECOMMENDATIONS AT LOW SLOPE ROOF.
	EXTENSIVE VEGETATIVE ROOF
	24"x24" PAVERS ONE ADJUSTABLE ELEVATOR PEDESTALS AT OUTDOOR CLASSROOM
	TUBULAR SKYLIGHT, TYPES 1 AND 2

GENERAL VIEW NOTE

(NOTES APPLY TO ALL 3D VIEWS)

THIS AXONOMETRIC OR PERSPECTIVE VIEW IS TO AID IN THE GENERAL VISUALIZATION OF THE PROJECT. SOME ELEMENTS MAY BE MISSING FOR CLARITY.

FOR CONSTRUCTION DETAILS, REFERENCE THE PLANS, SECTIONS, AND ENLARGED DETAILS AS WELL AS ENGINEERING DRAWINGS.

Scale: 1 inch = 16 feet
0 8' 16' 32' 48'
N

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GP# 21553

ROOF PLAN - PHOTOVOLTAIC ARRAY
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.8
03/13/2017
BID SET

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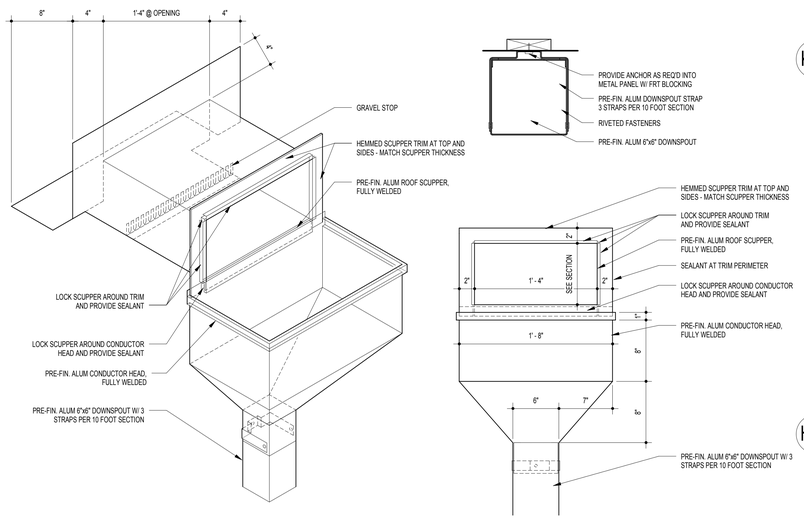
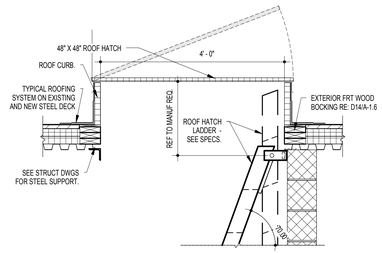
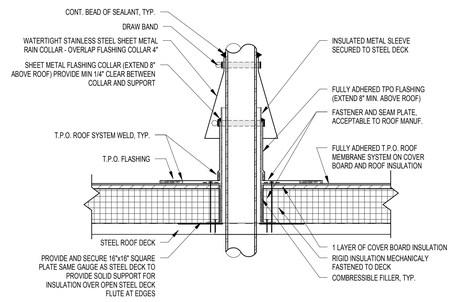


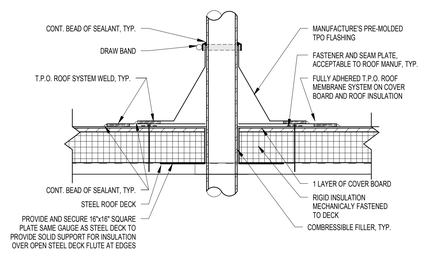
G18 SCUPPER AND CONDUCTOR HEAD DETAIL
1 1/2" = 1'-0"



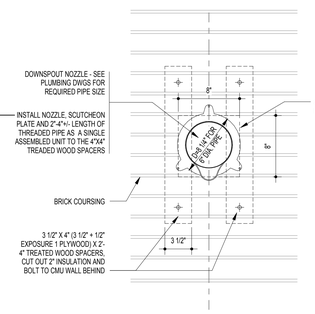
K12 ROOF HATCH / LADDER SECTION
3/4" = 1'-0"



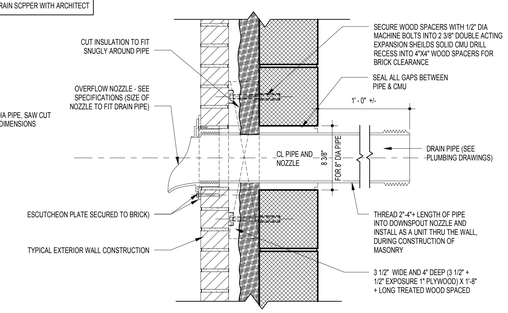
H13 TYPICAL HOT STACK (TPO)
1 1/2" = 1'-0"



F13 TYPICAL PRE-MOLDED PIPE FLASHING DETAIL (TPO)
1 1/2" = 1'-0"

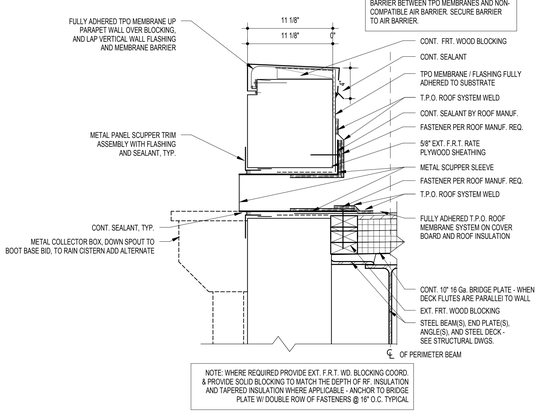


NOTE: CONTRACTOR TO COORDINATE HEIGHT OF OVERFLOW ROOF DRAIN SCPPER WITH ARCHITECT



F9 OVERFLOW SCUPPER DETAIL
1 1/2" = 1'-0"

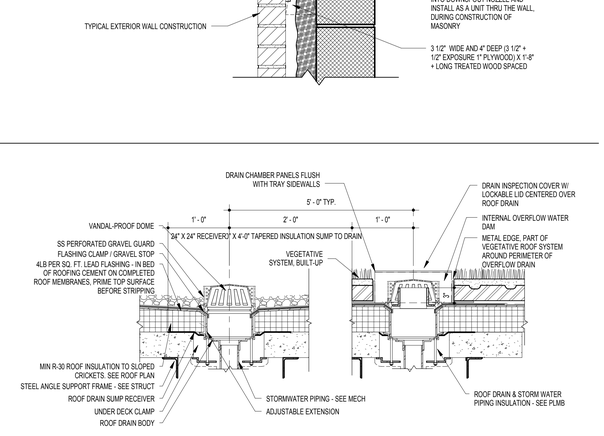
NOTE: PROVIDE ROOFING MANUF'S. APPROVED BARRIER BETWEEN TPO MEMBRANES AND NON-COMPATIBLE AIR BARRIER. SECURE BARRIER TO AIR BARRIER.



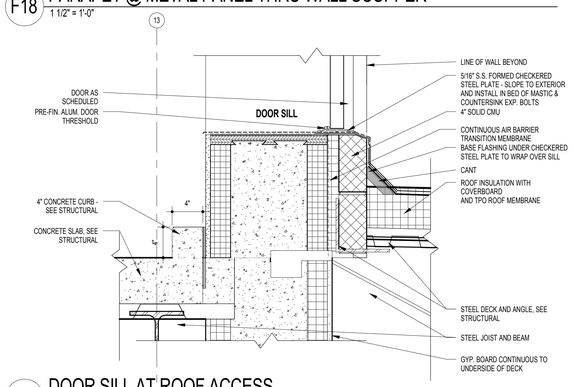
NOTE: WHERE REQUIRED PROVIDE EXT. F.R.T. WD. BLOCKING COORD. & PROVIDE SOLID BLOCKING TO MATCH THE DEPTH OF RF. INSULATION AND TAPERED INSULATION WHERE APPLICABLE - ANCHOR TO BRIDGE PLATE W/ DOUBLE ROW OF FASTENERS @ 16" O.C. TYPICAL

F18 PARAPET @ METAL PANEL THRU WALL SCUPPER
1 1/2" = 1'-0"

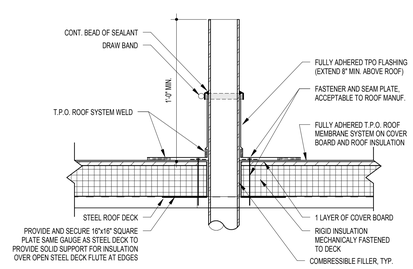
C13 TYPICAL PIPE FLASHING DETAIL (TPO)
1 1/2" = 1'-0"



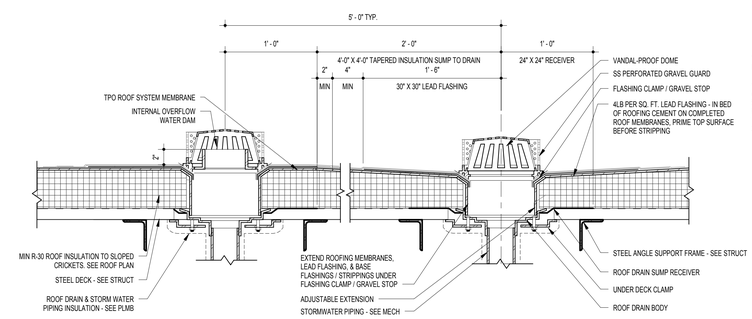
D5 ROOF DRAIN DETAIL AT VEGETATIVE ROOF
1" = 1'-0"



A18 DOOR SILL AT ROOF ACCESS
1 1/2" = 1'-0"



A13 TYPICAL ROOF VENT DETAIL (TPO)
1 1/2" = 1'-0"



NOTE: IECC REQUIRES R-30 CONTINUOUS INSULATION ABOVE ROOF DECK. INSULATION THICKNESS MAY BE REDUCED PER IECCC § 402.2.2 EXCEPTION #1 PROVIDED THE AREA-WEIGHTED U-FACTOR IS EQUIVALENT TO THE SAME ASSEMBLY WITH THE MINIMUM REQUIRED R-VALUE OVER TEH ENTIRETY OF THE ROOF. CONTRACTOR SHALL PROVIDE CALCULATIONS VERIFYING IECC COMPLIANCE.

A8 TYPICAL ROOF DRAIN DETAIL
1 1/2" = 1'-0"

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ROOF DETAILS

HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.9

03/13/2017
BID SET

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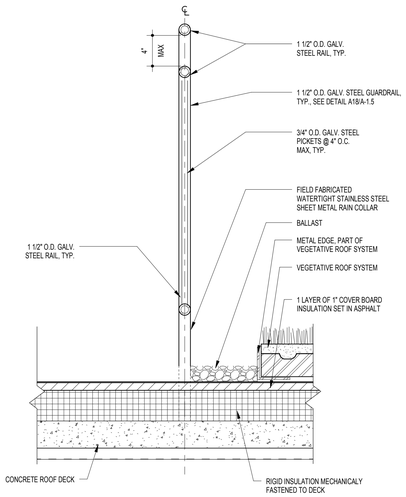
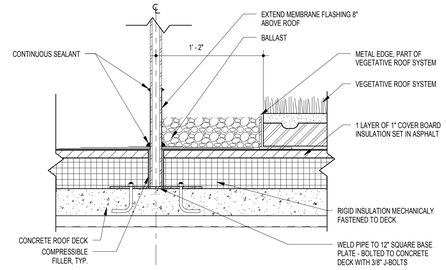
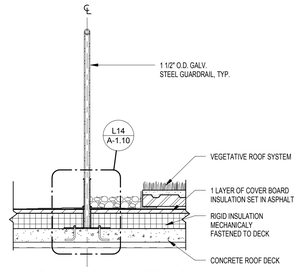


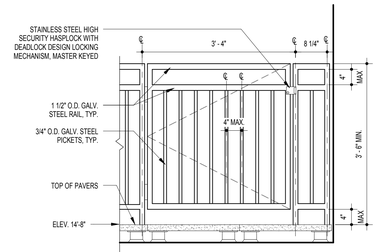
J18 GUARDRAIL SECTION @ PICKETS
1 1/2" = 1'-0"



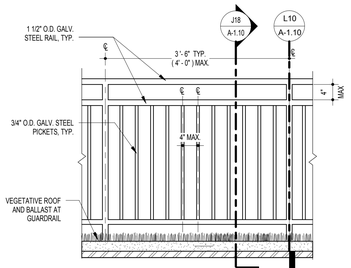
L14 DETAIL AT RAILING BASE PLATE CONNECTION
1 1/2" = 1'-0"



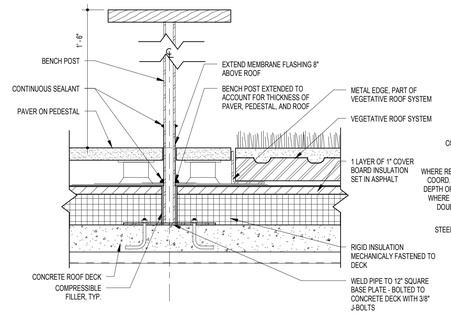
L10 GUARDRAIL SECTION
3/4" = 1'-0"



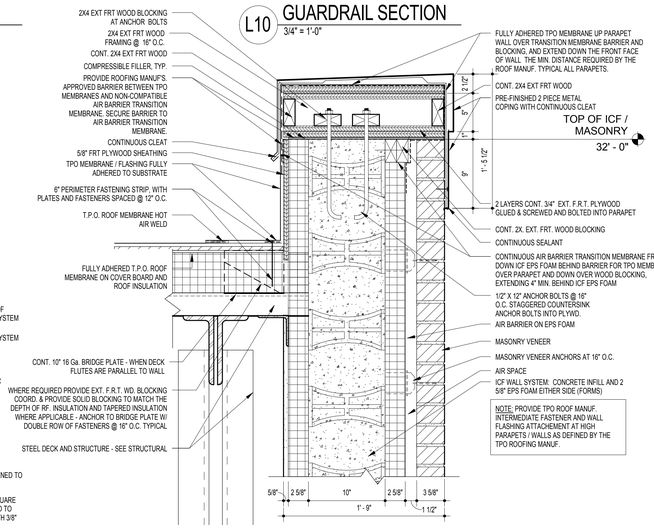
L6 GATE @ SOLAR LAB ROOF
3/4" = 1'-0"



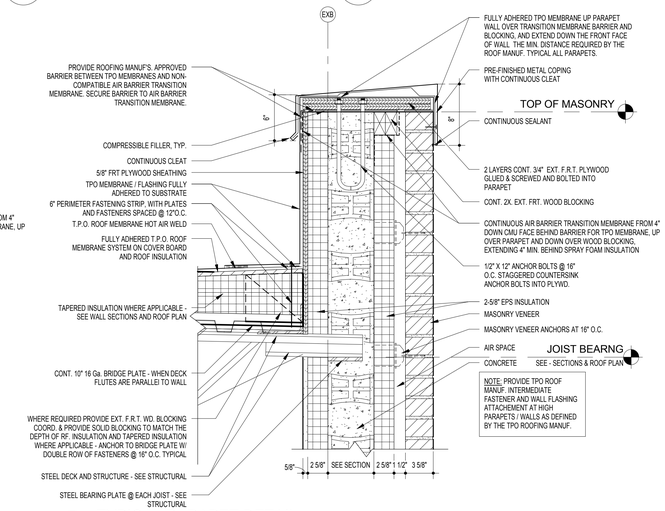
L4 GUARDRAIL @ SOLAR LAB ROOF
3/4" = 1'-0"



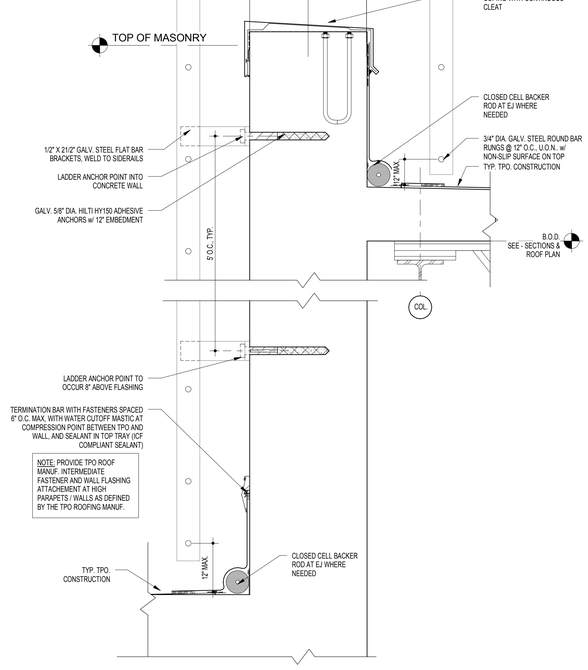
G14 DETAIL AT BENCH POST BASE PLATE CONNECTION
1 1/2" = 1'-0"



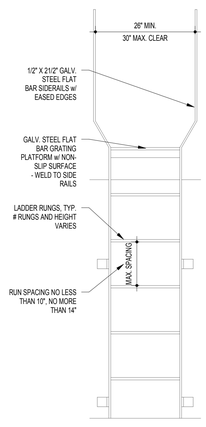
G11 PARAPET DETAIL @ GYM
1 1/2" = 1'-0"



G6 TYPICAL PARAPET DETAIL
1 1/2" = 1'-0"

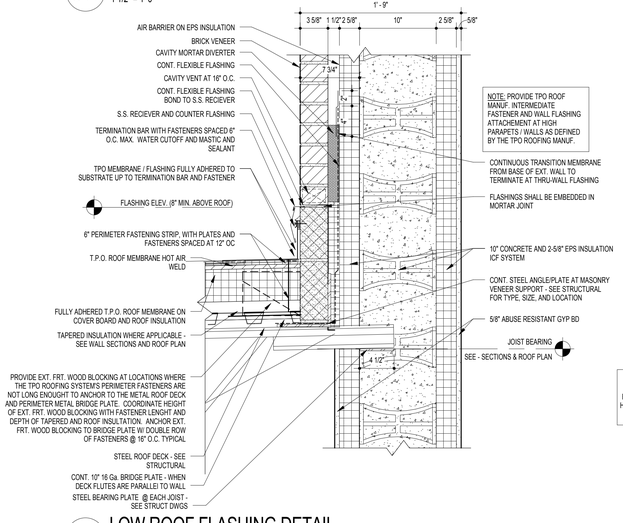


A18 TYPICAL ROOF LADDER DETAIL (TPO)
1 1/2" = 1'-0"

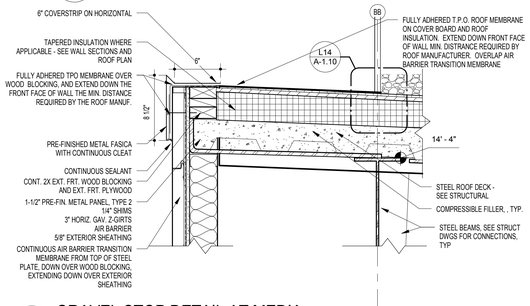


ELEVATION.

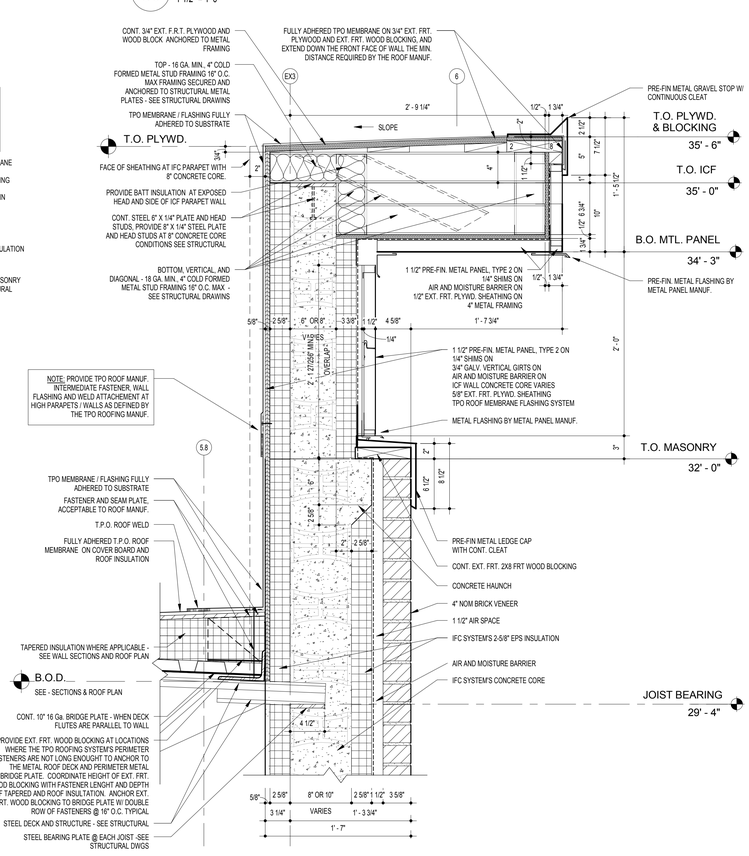
C13 ROOF LADDER ELEVATION
3/4" = 1'-0"



C11 LOW ROOF FLASHING DETAIL
1 1/2" = 1'-0"



A11 GRAVEL STOP DETAIL AT MEDIA
1 1/2" = 1'-0"



A7 PARAPET DETAIL AT CLASSROOM
1 1/2" = 1'-0"

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GRIMM AND PARKER

GP# 21553

ROOF DETAILS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.10
03/13/2017
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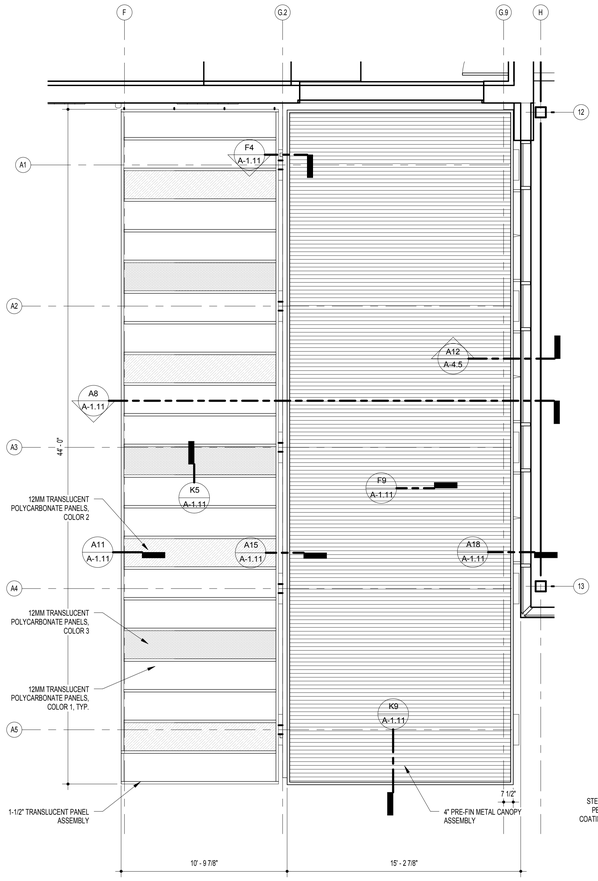
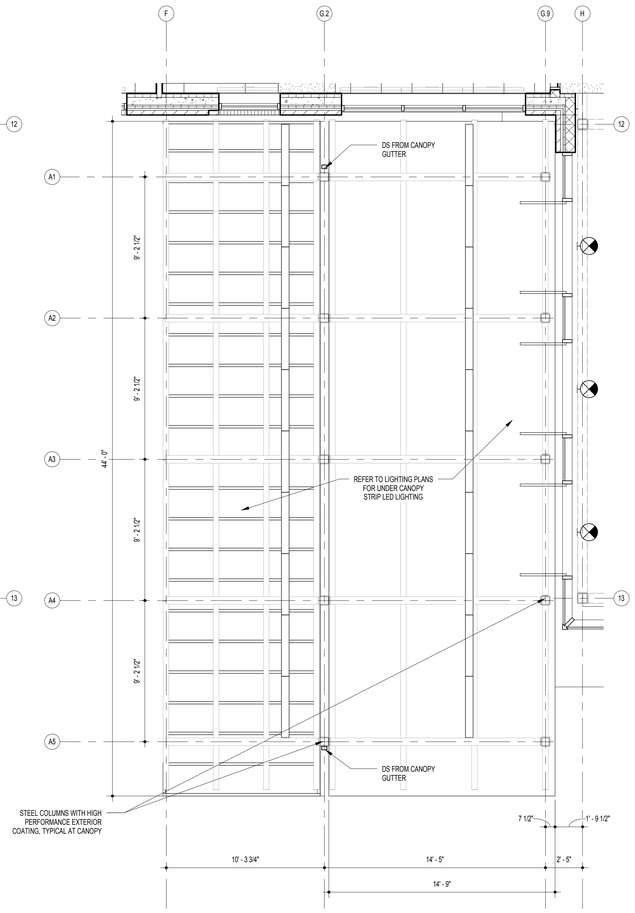
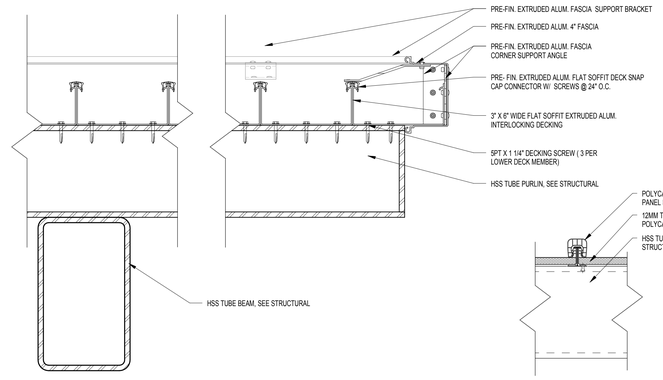


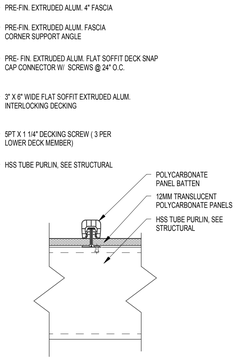
F18 MAIN ENTRANCE CANOPY ROOF PLAN
1/4" = 1'-0"



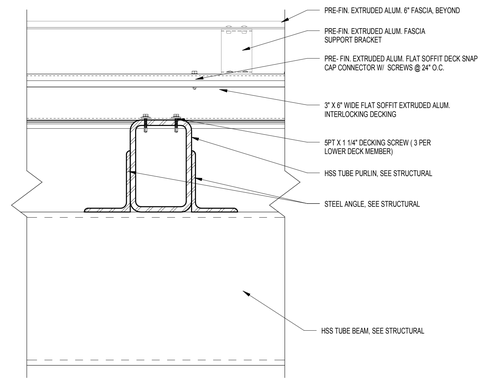
F13 MAIN ENTRANCE CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



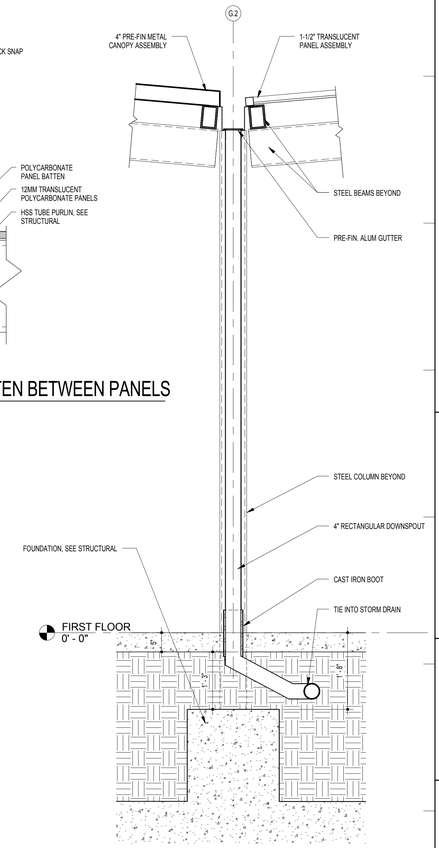
K9 CANOPY- METAL DECK FLAT SOFFIT SECTION
3" = 1'-0"



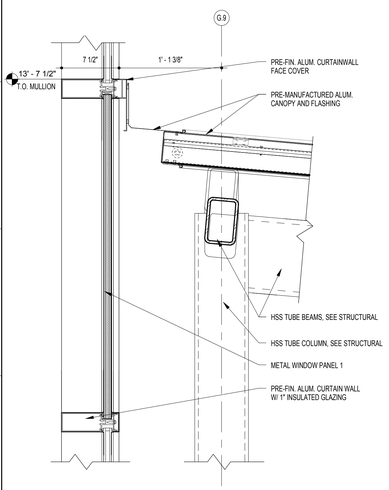
K5 SECTION AT BATTEN BETWEEN PANELS
3" = 1'-0"



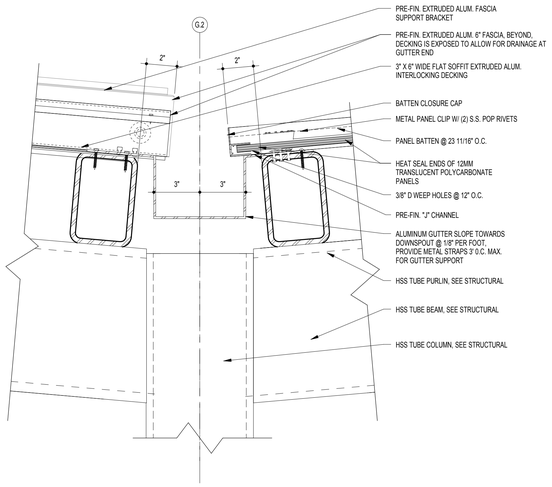
F9 CANOPY - METAL DECK TO STRUCTURE SECTION
3" = 1'-0"



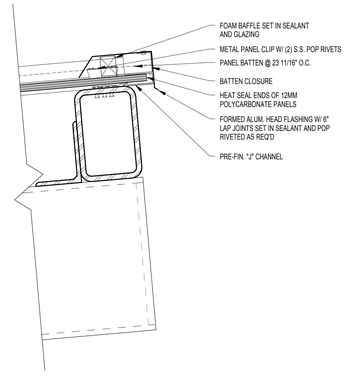
F4 MAIN ENTRANCE CANOPY SECTION @ DOWNSPOUT
3/4" = 1'-0"



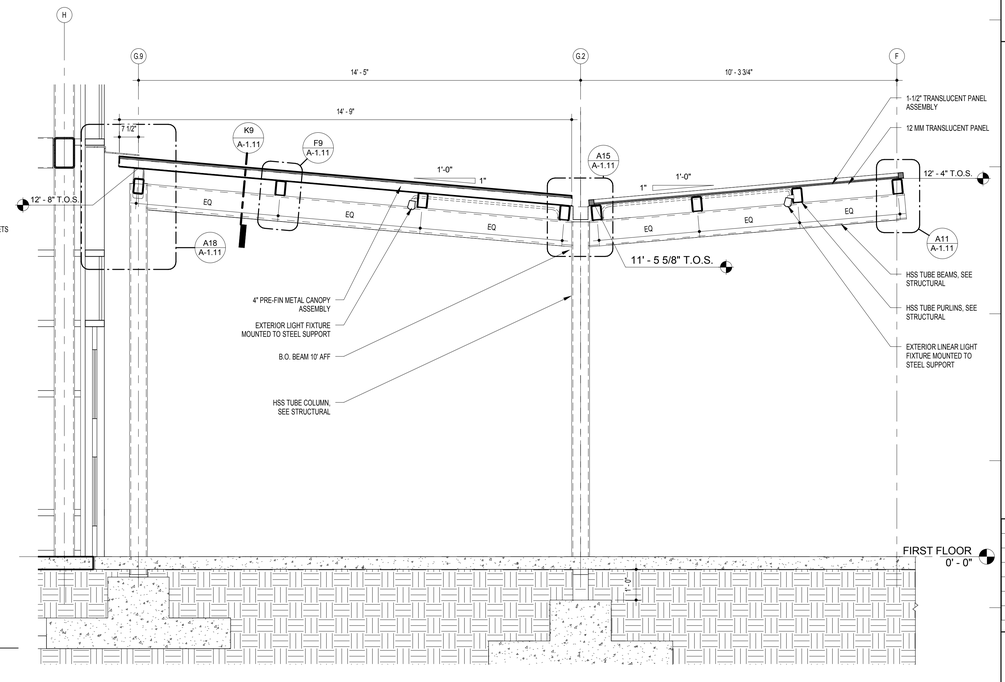
A18 MAIN ENTRANCE CANOPY FLASHING DETAIL
1 1/2" = 1'-0"



A15 MAIN ENTRANCE CANOPY - GUTTER DETAIL
3" = 1'-0"



A11 POLYCARBONATE CANOPY END DETAIL
3" = 1'-0"



A8 MAIN ENTRANCE CANOPY SECTION
1/2" = 1'-0"

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GRIMM AND PARKER

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ENTRY CANOPY DETAILS
HOLABIRD ACADEMY PK-8
CITY OF BALTIMORE, MARYLAND

DATE	DESCRIPTION

A-1.11
03/13/2017
BID SET

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