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AN ASSOCIATION

Mississippi

New Gym at Brooks Elementary

Project Site: Brooks Elementary, Duncan, MS

DPA PN: 19093

Construction Documents
March 2022

Superintendent Maurice Smith

Board of Trustees

Board President	Rev. Jeffrick D Butler
Board Vice President	Rev. Tyrone Miller
Board Secretary	Jacquelyn Allen
Board Member	William Lucas
Board Member	Lashonda Walker

Team

Owner	North Bolivar Consolidated School District
Architect	Dale Bailey, an Association
Mechanical	GSK Mechanical, Inc.
Electrical	The Power Source, PLLC
Structural	Structural Design Group
Civil	WGK Engineering, Inc.

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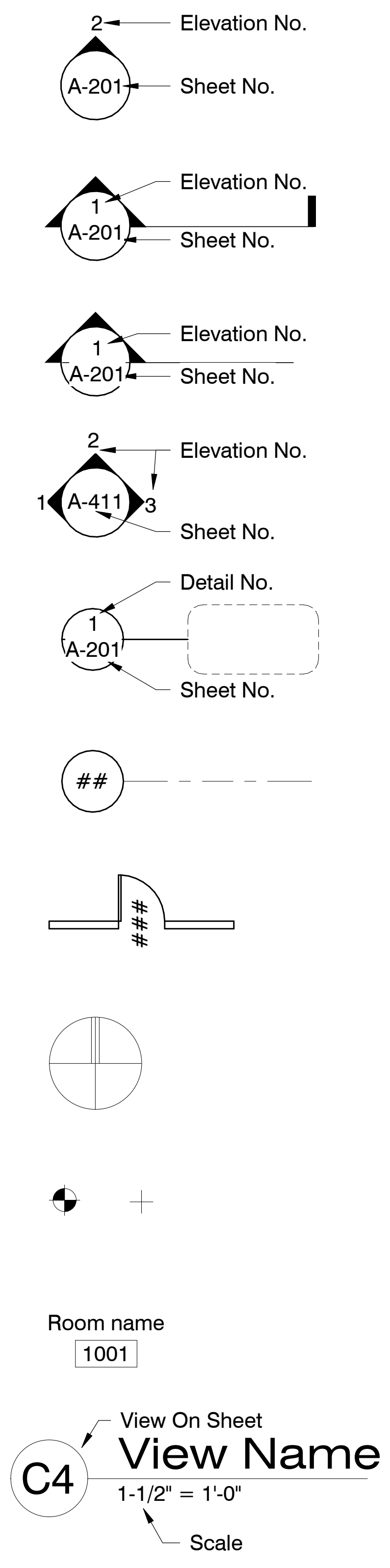
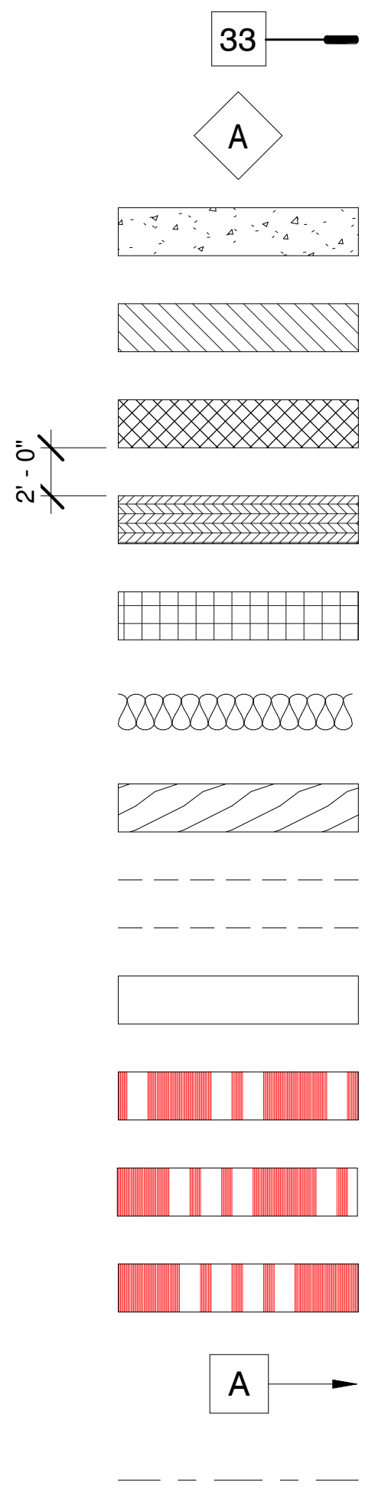
Graphic Symbols



Building Elevation
Building Section
Wall Section
Interior Elevation
Detail
Column Grid
Door Mark
North Arrow
Spot Elevation
Room Name and Number
Drawing Title with Drawing Scale



Wall Type
Window Type
Concrete
Brick
CMU (Plan)
Plywood
Rigid Insulation
Batt Insulation
Finished Wood
Existing Wall to be Demolished
Metal Stud Partition
1 Hr Rated Wall Partition (See Floor Plan)
2 Hr Rated Wall Partition (See Floor Plan)
3 Hr Rated Wall Partition (See Floor Plan)
Sheet Keynote
Center Line

Project Directory

Project Information

Name: 21060 Brooks Elementary Gym
Address: 615 School St / Duncan, MS 38740

Client

North Bolivar Consolidated Schools
204 North Edwards Avenue
Mound Bayou, MS 38762
(662) 368-9336
Contact: Maurice Smith, Superintendent

Architect

Dale Partners
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(name@dalepartners.com)

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(bmckay@wgkengineers.com)

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Nashville, TN 37228
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Electrical

The Power Source, PLLC
945 Madison Avenue
Madison, MS 39110
(601) 605-4820
Contact: Chris Green
(cgreen@thepowersource.us)

General Project Notes

Project Alternates

1. Providing VCT for the new gym floor instead of sealed concrete.
2. Providing athletic rubber flooring for the new gym floor instead of sealed concrete.
3. Providing an FRP coating on the plywood walls around the gym.
4. Providing 4" CMU instead of plywood walls around the gym.

Energy Code Requirements

1. IBC **2012** Energy Code is the mandatory energy code standard for this project.
2. All mechanical and electrical building system installed should meet all requirements of the energy code.
3. Main roof insulation will be 2" inches of polyisocyanurate insulation board with joints staggered between layers of insulation.
4. Exterior masonry walls will have 1.5" inches of continuous extruded polystyrene in the cavity between the CMU and brick veneer.
5. Continuous air barrier to be provided at building envelope per IBC 2012 Energy Code. Air barrier joints and seams to be sealed and all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair its ability to resist positive and negative pressure from wind or mechanical units.

Thermal Envelope Requirements

1. Roofs = R-20 ci (insulation entirely above deck)
2. Walls = R-7.6ci (mass walls)
3. Walls = R-13 + R-7.5ci (metal framed walls)
4. Below Grade Walls = no requirement
5. Slab on Grade = no requirement

Fenestration Requirements (U-factor)

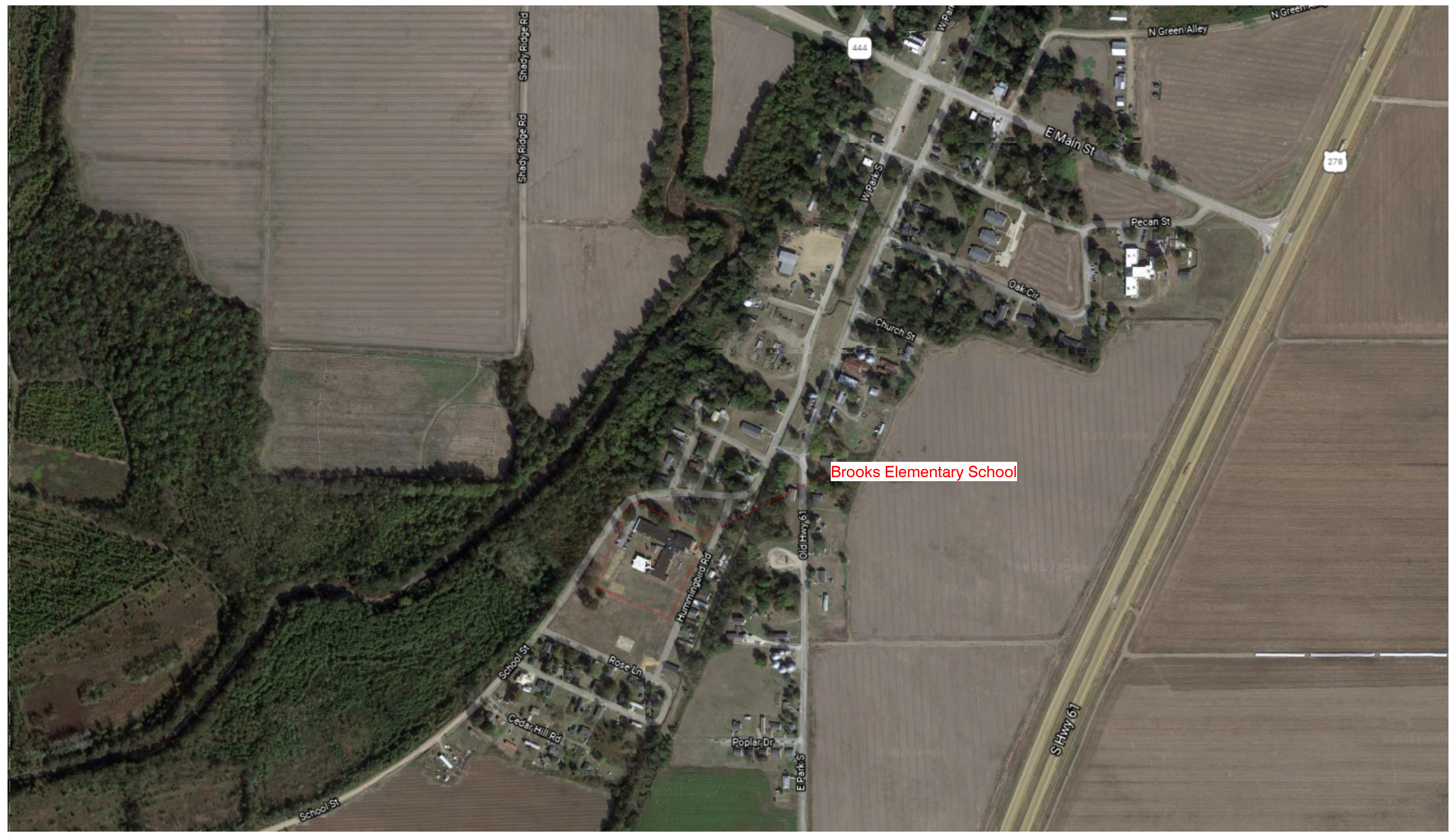
1. Fixed = U-Factor 0.46
2. Operable = U-Factor 0.60
3. Entrances = U-Factor 0.77
4. SHGC = U-Factor 0.25

General Information

1. Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from the architect before continuing with the construction
2. Contractors shall verify, on the site, all dimensions and equipment locations, and notify architect promptly in writing of any discrepancies
3. Contractors shall be responsible to determine the on site conditions and perform all necessary work to complete the project
4. Contractors shall maintain safe methods of egress for occupied buildings and in site area during construction
5. All casework dimensions shall be field verified before unit fabrication or installation
6. Dimensions, notes, finishes, and fixtures shown on typical floor plans shall apply to similar, symmetrical, or opposite hand plans, sections, or details
7. Typical, or typ., shall mean that condition is representative for similar conditions throughout, U.N.O. Details are usually keyed and noted "Typ." only one time when they first occur
8. Partitions are dimensioned from finish face U.N.O. Dimensions to masonry are to actual finish face U.N.O.
9. Owner to have right of refusal for all materials, furniture, fixtures and good within the limits of the construction contract.

Drawing Index

Location Plan



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New Gym at Brooks Elementary
Duncan, Mississippi

Construction Documents

Project No	19093
Date	March 2022
Revisions	Rev Date

G-001

Index & General Project Information

1 Brooks Elementary Project Staging Plan
1" = 60'-0"

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RSN://192.10.10.14/19093 Brooks Elementary/19093 Brooks Elementary.rvt

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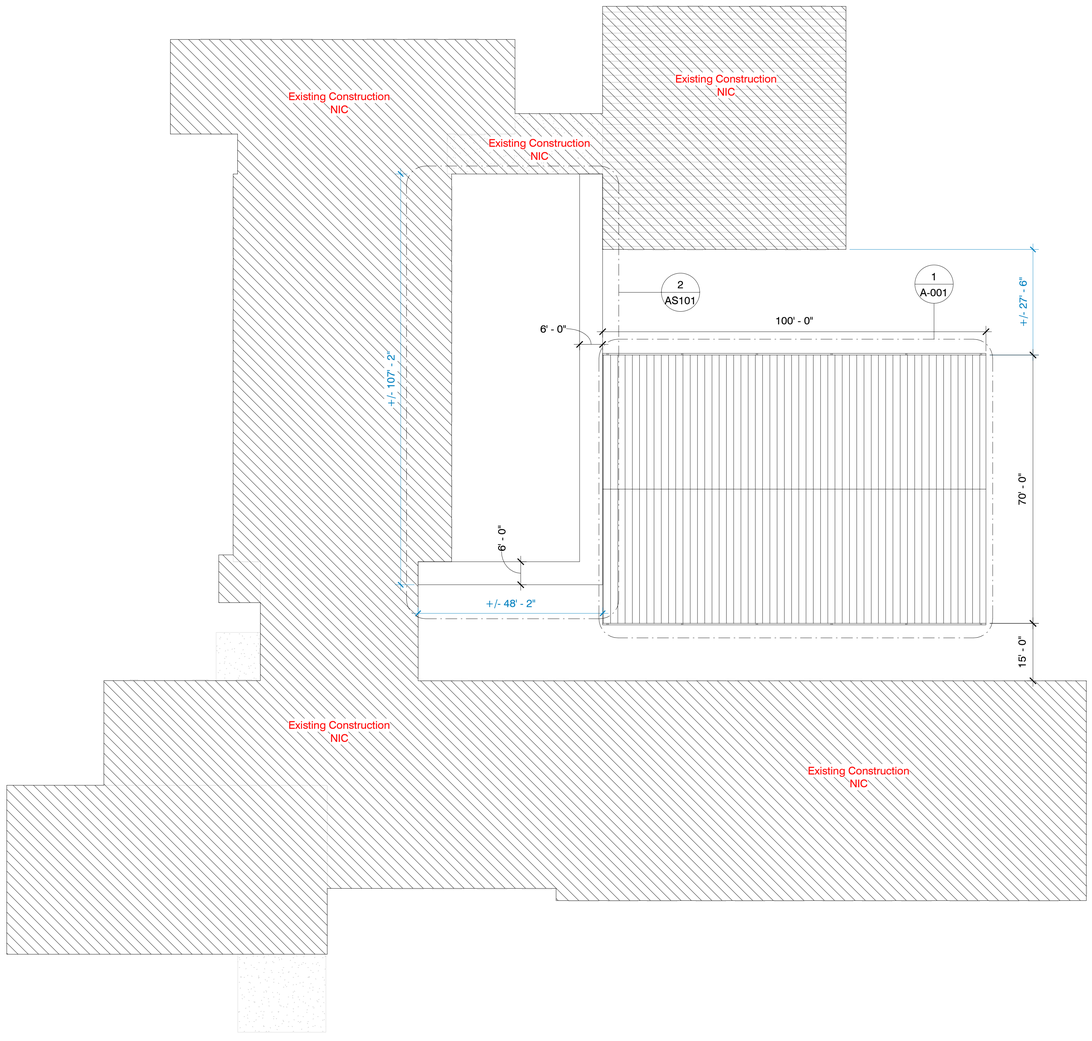
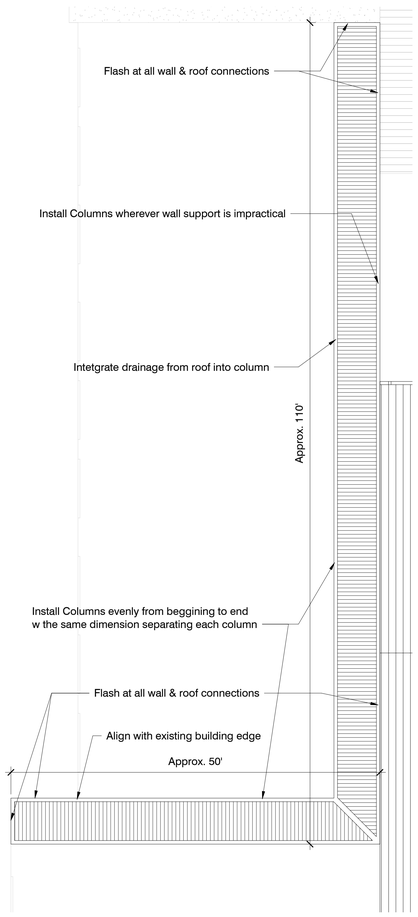
G-002
Project Staging Plan

General Site Notes

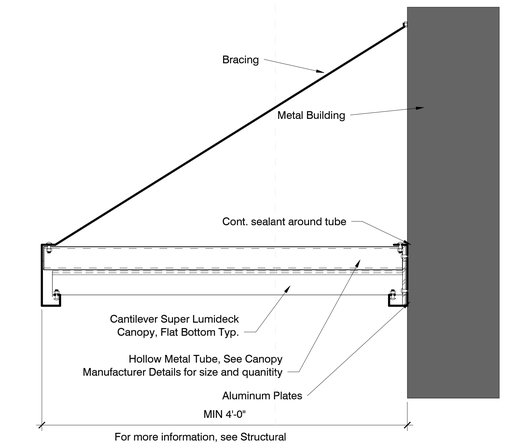
1. See Civil Drawing for finish grades at exterior paving. All paving and grades at perimeter of building to have positve slope away from structures and towards drainage basins.
2. All grassed areas shall be graded to drain to the appropriate inlet or slope to ensure positive drainage away from the building
3. All downspouts and boots to be connected to subsurface drainage. See Civil drawings.



1 Brooks Elementary New Gym Site Plan
1/16" = 1'-0"

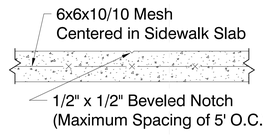


2 New Canopy Plan
1/8" = 1'-0"

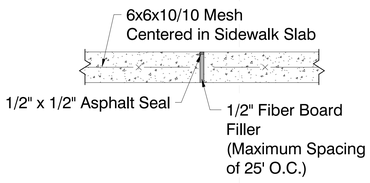


3 Typical Cantilevered Canopy Detail
1 1/2" = 1'-0"

Typical Sidewalk Expansion Joint



Typical Sidewalk Expansion Joint



4 Typical Sidewalk Details
1 1/2" = 1'-0"

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New Gym at Brooks Elementary

Duncan, Mississippi

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AS101

Site Plan

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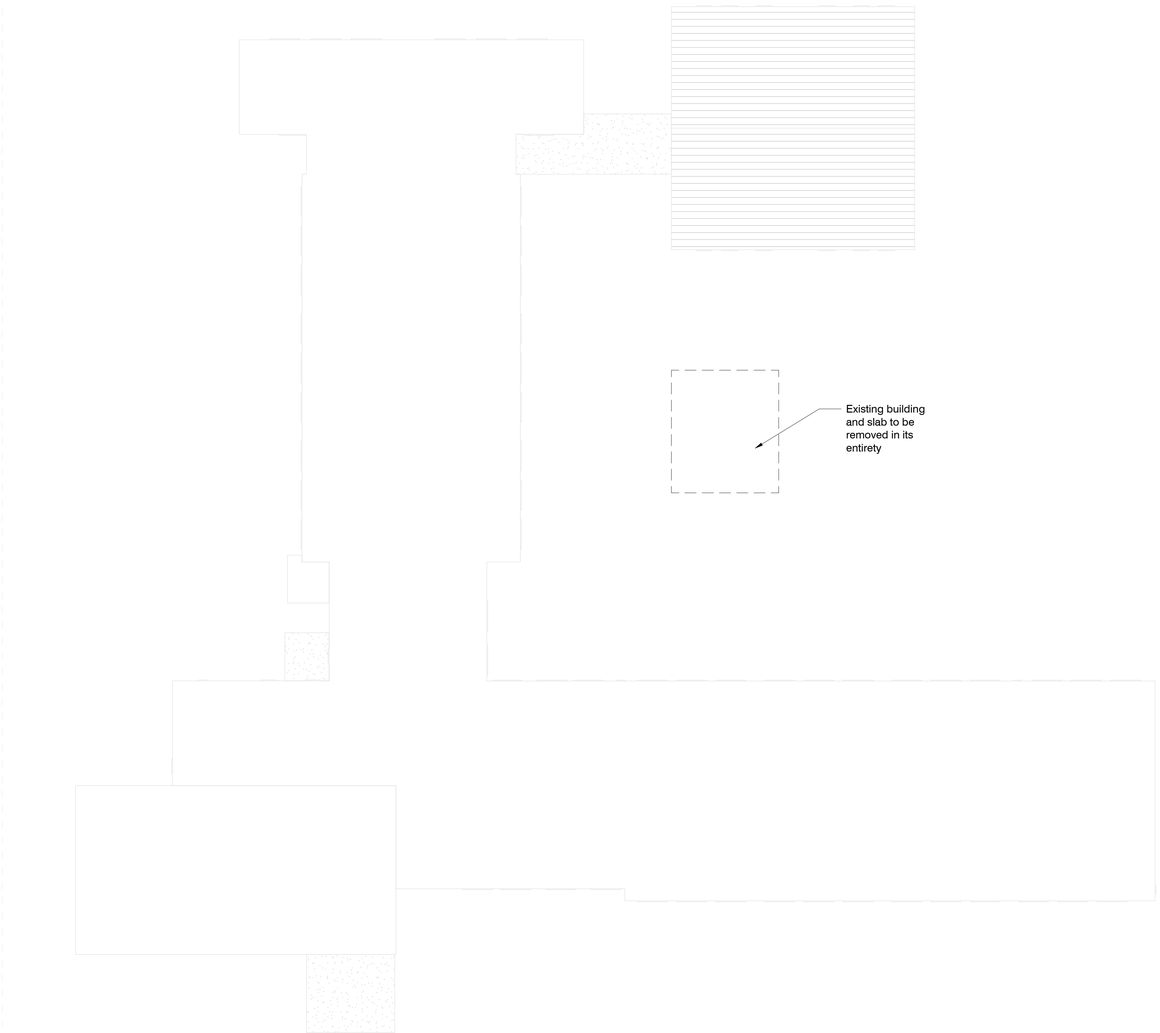

1 Brooks Elementary New Gym Demolition Site Plan
1/16" = 1'-0"

General Demolition Notes

1. **Existing Window Demolition -** Where Existing Windows are tagged **D-(x)**, these windows are to be demo'd, See new Construction Floor Plans for Scope of Infill Work. See AD101 for Window Dimensions
2. Remove all existing flooring, ceiling tile, rubber base, etc.. where shown to be replaced by new materials in the finish schedule. RE: Floors plans, RCP, and Finish Schedule
3. See Electrical Drawings for reference in re-using existing lights or provided new lights where ceilings are being replaced.
4. Owner has right of refusal for all demo work. If not retained, GC to be responsible for disposal.
5. Verify all existing conditions. Notify architect of any discrepancies between the existing conditions and these documents. The Contractor is to consider the additional work required by any discrepancies to be included in this Contract.
6. Burying or Burning of materials will not be permitted on site.
7. Repair any damage caused to building construction identified to remain.
8. Refer to other discipline drawings for additional demolition information as noted
9. Schedule with the Owner any demolition that involves exposing to the weather the interior portions of building to remain. This work is to be performed during good, dry weather or temporary waterproof barrier walls shall be constructed at all occurrences where the demolition exposes weather to the interior of portions of buildings to remain.
10. Existing loose school property to be the responsibility of the school district, revomal of property by owner to be coordinated between the contractor and school district.
11. Existing to remain fixed millwork, casework, mortarboards, chalkboards, tackboards, lockers, etc.. to be protected during construction
12. Where areas are removed or altered, patch, repair, & paint to match adjacent surface material and finish.
13. All exterior lighting that conflicts with new construction are to be removed and terminated, refer to Electrical Drawings.
14. Any exterior building elements that conflict with new construction that are not documented in these drawings should be brought to the attention of the Architect before demolition

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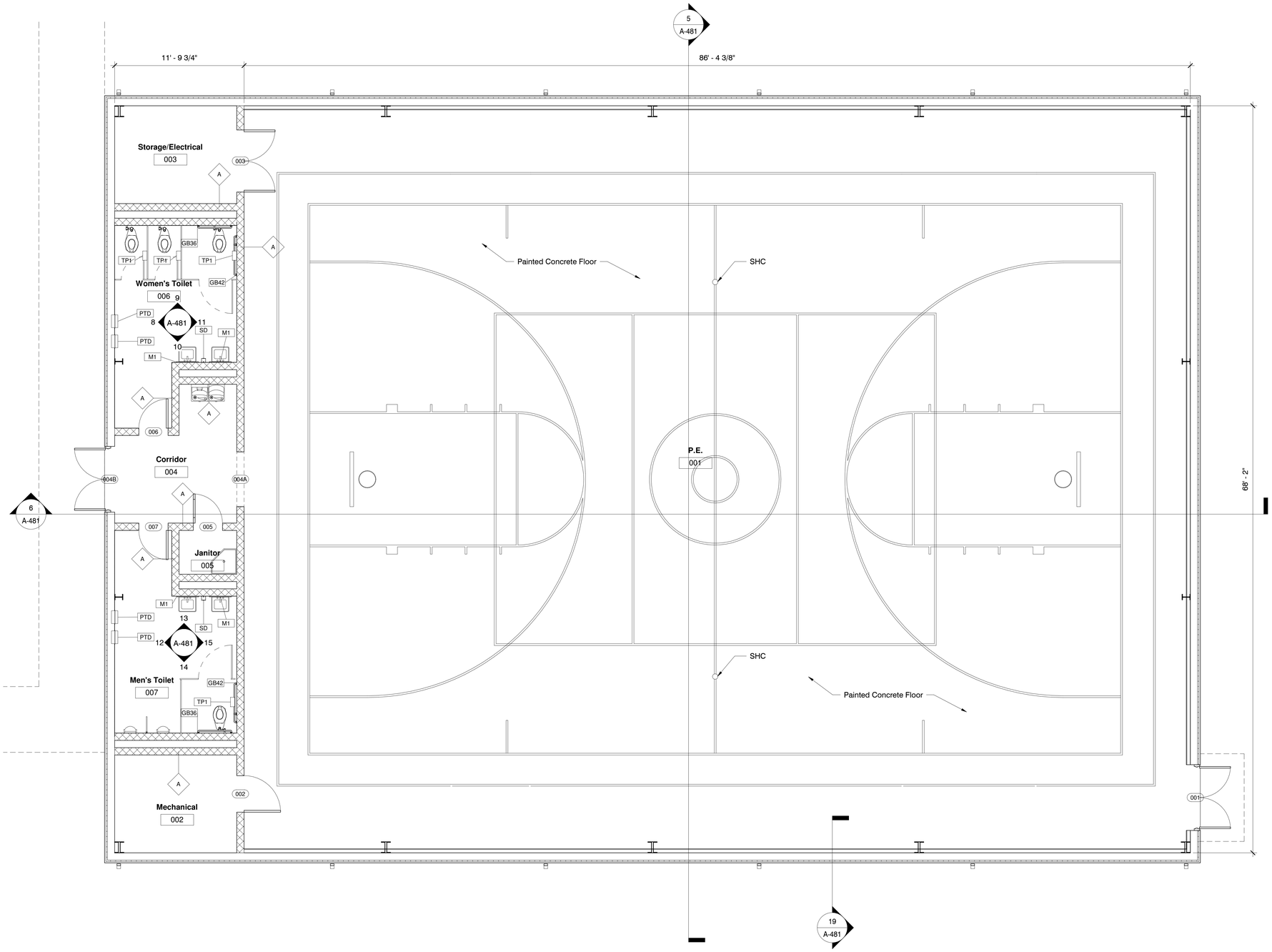
AD101
Composite Demo Plan

General Plan Notes

1. All dimensions are to the face of masonry.
2. All partition types are "A" UNO.
3. "A" Wall type to be 8" CMU block, painted.
4. Provide Pre-manufactured metal builiding as main structure & shell.
5. Provide appropriately sized concrete slabs at all new ground mounted mechanical units. Coordinate sizing and specifications with manufacturer's recommendations. Provide new chainlink security fencing w/ access gates around all new slabs. See mechanical for size and dimensions of units.
6. Provide built in Volleyball net anchor points with cover plates as per specifications.
7. Provide polls, nets, and anchors required for the indoor volleyball kit.
8. Alternate #1: Provide athletic rubber flooring with painted basketball/volleyball striping. Provide ADA compliant transitions at all doorways and entryways.



1 Composite Floor Plan
1/4" = 1'-0"

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A-001
Floor Plan

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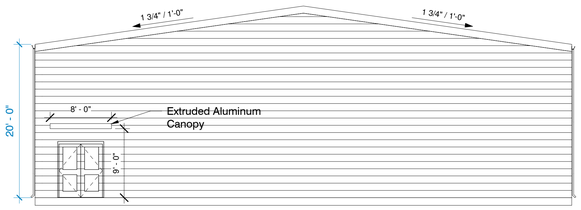
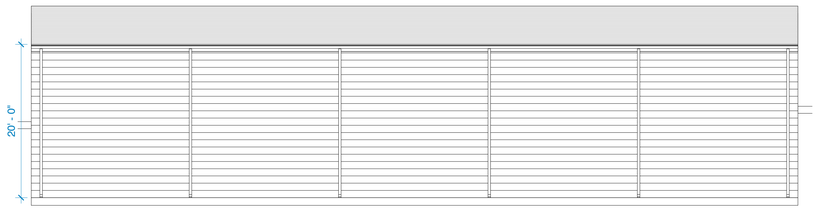
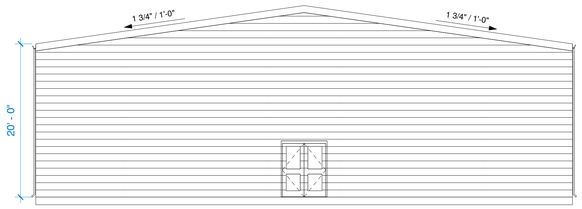


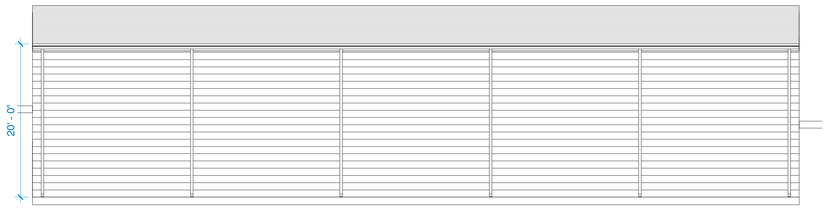
1 East
1/8" = 1'-0"



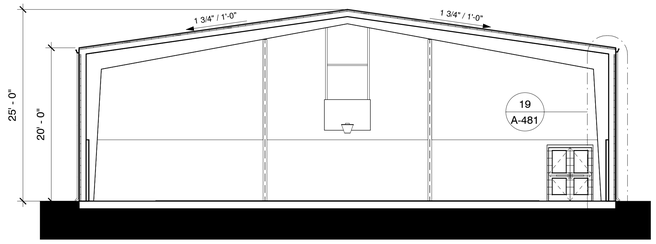
2 South
1/8" = 1'-0"



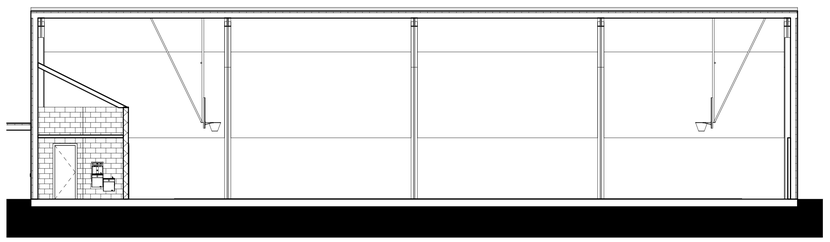
3 West
1/8" = 1'-0"



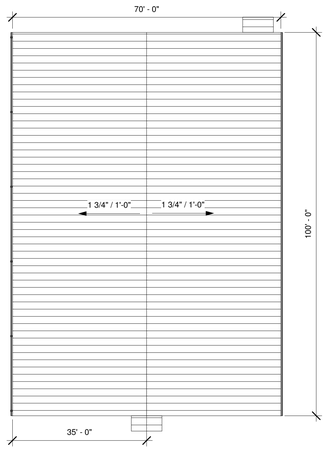
4 North
1/8" = 1'-0"



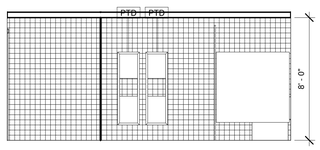
5 New Gym Short Section
1/8" = 1'-0"



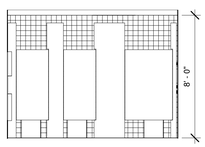
6 New Gym Long Section
1/8" = 1'-0"



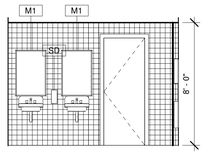
7 Roof Plan
1/16" = 1'-0"



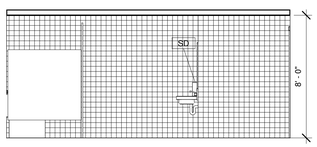
8 Women's Toilet A
1/4" = 1'-0"



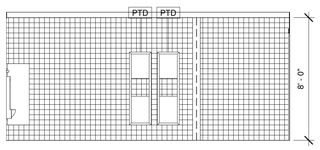
9 Women's Toilet B
1/4" = 1'-0"



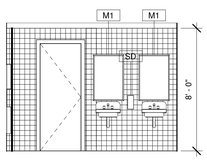
10 Women's Toilet C
1/4" = 1'-0"



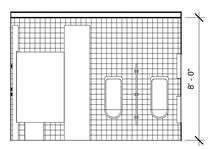
11 Women's Toilet D
1/4" = 1'-0"



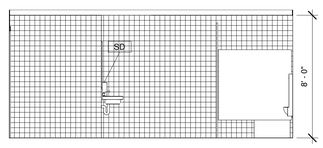
12 Men's Toilet A
1/4" = 1'-0"



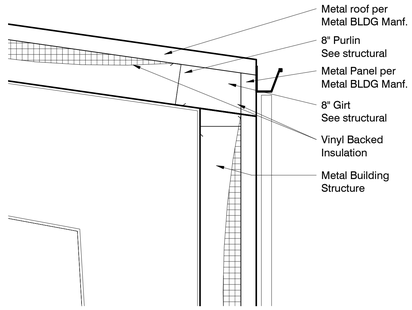
13 Men's Toilet B
1/4" = 1'-0"



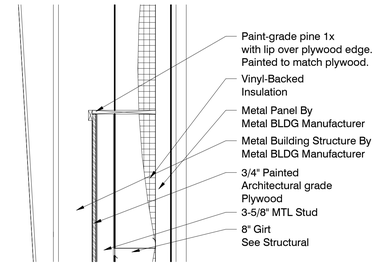
14 Men's Toilet C
1/4" = 1'-0"



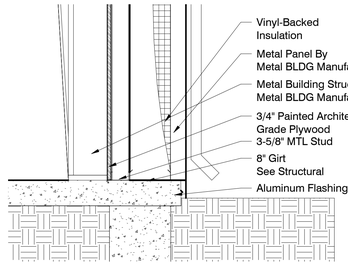
15 Men's Toilet D
1/4" = 1'-0"



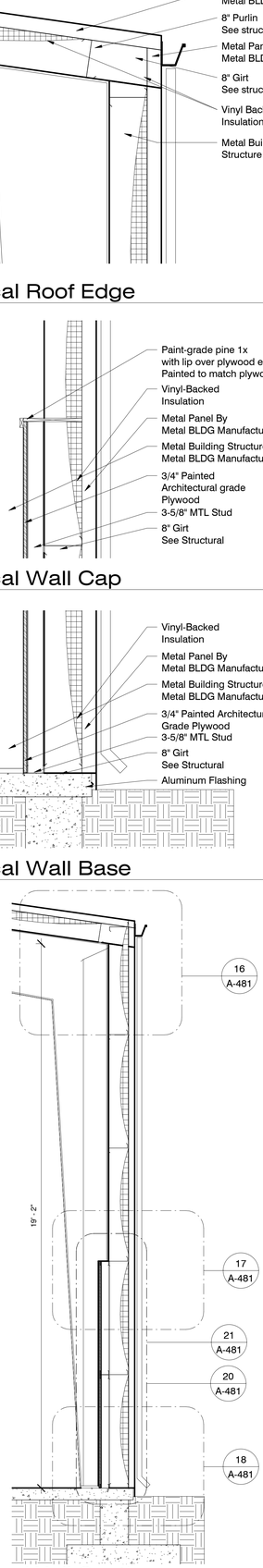
16 Typical Roof Edge
1" = 1'-0"



17 Typical Wall Cap
1" = 1'-0"



18 Typical Wall Base
1" = 1'-0"



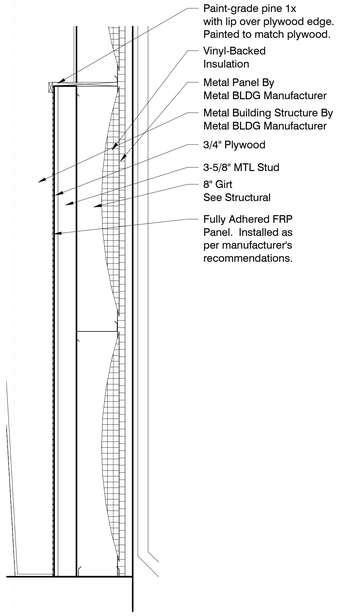
19 Wall Section
1/2" = 1'-0"

General Interior Elevation Notes

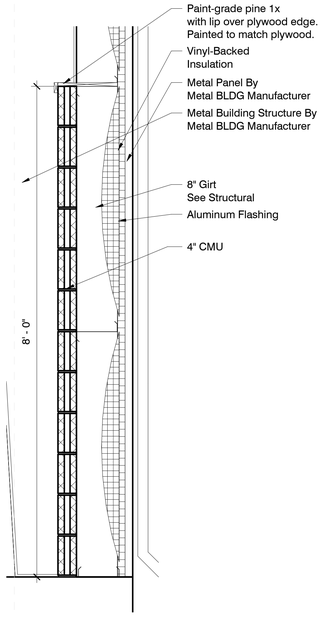
1. Locker room and toilet elevations depict typical layouts and should be primarily used for equipment mounting heights and location. The type of equipment shoudl be referenced from the plan views.
2. Refer to Sheet A-621 for additional interior finish information and annotations.
3. Install CWT on all toilet room walls that fixtures are attached from corner to corner and top to bottom for full height and length.

Toilet Accessory Legend

GB36.	Grab Bars: 36", 1-1/2" diameter
GB42.	Grab Bars: 42", 1-1/2" diameter
GB18.	Grab Bars: 18", 1-1/2" diameter
TP1.	Toilet Paper Dispenser: OFCI
TP2.	Double SidedToilet Paper Dispenser: OFCI
PT.	Paper Towel Dispenser: OFCI
SD.	Soap Dispenser: OFCI
M.	Mirror: 24"x36"
H.	Shower Curtain Rod
I.	Folding Shower Seat
CH.	Robe/Coat Hooks: Mount on toilet side of door
ND.	Sanitary Napkin Disposal: OFCI
KC.	Key Cabinet
MS.	Mail Slots
FD.	Floor Drain



20 Alternate #2
1" = 1'-0"



21 Alternate #3
1" = 1'-0"

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Brooks Elementary
New Gym at Brooks Elementary
Duncan, Mississippi

Construction Documents

Project No	19093
Date	March 2022
Revisions	Rev Date

A-481
Interior and Exterior Elevations

Door Schedule

Mark	zx Size Dr W	PR	Door Tot W	Ht	zx Matl	El	Glz	Frame Matl	El	Glz	Detail Head	Jamb	Sill	Fire Rating (Min)	Hardware Allowance	Notes
001	2' - 10"	o	5' - 8"	7' - 0"	HM	D3	GL1	HM	F1	-	4/A-621	5/A-621	6/A-621			
002	3' - 4"		3' - 4"	7' - 0"	WD	24	-	HM	F2	-	1/A-621	2/A-621	3/A-621			
003	2' - 10"	o	5' - 8"	7' - 0"	WD	D2	-	HM	F2	-	1/A-621	2/A-621	3/A-621			
004A	5' - 0"	-	5' - 0"	7' - 0"	-	-	-	HM	F2	-	7/A-621	8/A-621	-			Cased Opening
004B	2' - 10"	o	5' - 8"	7' - 0"	HM	D3	GL1	HM	F1	-	4/A-621	5/A-621	6/A-621			
005	2' - 8"	-	2' - 8"	7' - 0"	WD	D2	-	HM	F2	-	1/A-621	2/A-621	3/A-621			
006	2' - 8"	-	2' - 8"	7' - 0"	WD	D1	-	HM	F2	-	1/A-621	2/A-621	3/A-621			
007	2' - 8"	-	2' - 8"	7' - 0"	WD	D1	-	HM	F2	-	1/A-621	2/A-621	3/A-621			
Grand total: 8															0	

Finish Schedule

Room Name	Finishes Floor	Base	Wall	Ceiling	Comments
P.E.	SC	-	PLY	EXP	
Corridor	SC	RB1	PT4	GYP1	
Women's Toilet	CFT	RB1	CWT1/CWT2/PT1	GYP2	
Men's Toilet	CFT	RB1	CWT3/CWT/4/PT2	GYP2	
Storage/Electrical	SC	RB1	PT3	EXP	
Mechanical	SC	RB1	PT3	GYP1	
Janitor	SC	RB1	PT	GYP1	

General Finish Schedule Notes

1. Provide porcelain tile flooring & ceramic tile wainscot around all electronic drinking fountains. See interior elevations.
2. Provide moisture-resistant backer board to all CMU walls scheduled to receive ceramic tile wainscot
3. Extend all flooring underneath casework.
4. Provide sound absorptive wall panels; See interior elevations for sizes and locations.
5. Provide moisture resistant GYP at all wet conditions.
6. Apply epoxy paint to CMU at all non wet wall locations in restrooms. See interior elevations.

Floor

CFT Ceramic Floor Tile: Color to be chosen by Architect
SC Sealed Concrete: Color to be chosen by Architect

Base

RB1 Rubber Base 1: Color to be chosen by Architect
CTB1 Ceramic Tile Base 1: Color to be chosen by Architect
CTB2 Ceramic Tile Base 2: Color to be chosen by Architect

Wall

PT1 Paint Color 1: Walls in Female Restroom; Color to be chosen by Architect
PT2 Paint Color 2: Walls in Male Restroom; Color to be chosen by Architect
PT3 Paint Color 3: Exposed mechanical ducts; Color to be chosen by Architect
PT4 Paint Color 4: Wall in Corridor; Color to be chosen by Architect
CWT1 Ceramic Wall Tile 1: Female Restroom; Color to be chosen by Architect
CWT2 Ceramic Wall Tile 2: Female Restroom; Color to be chosen by Architect
CWT3 Ceramic Wall Tile 3: Male Restroom; Color to be chosen by Architect
CWT4 Ceramic Wall Tile 4: Male Restroom; Color to be chosen by Architect
PLY Painted Plywood: Color to be chosen by Architect

Ceiling

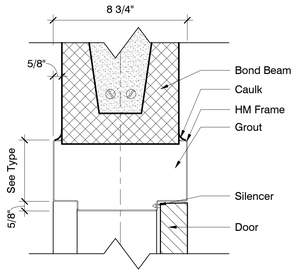
GYP1 Gypsum Board on Mtl. Stud Ceiling, Standard; See Specifications
GYP2 Moisture Resistant Gypsum Board on Mtl. Stud Ceiling, Standard; See Specifications
EXP Exposed Structure to be painted. Color to be chosen by Architect.

General Door & Window Notes

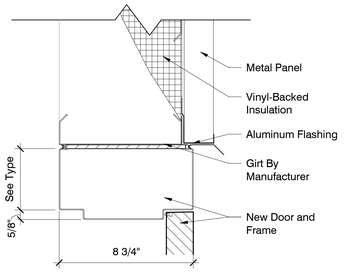
1. Provide 1" insulated, tinted glass in all exterior windows & storefront, UNO. Provide 1/4" tempered glass in all exterior storefront doors, UNO.
2. Typical undercut for to be 5/8" for interior doors & 1/4" above top of threshold for exterior doors.
3. All wood & steel doors to be 1-3/4" thick UNO
4. Coordinate all electrical hardware requirements with electrical drawings & specifications
5. Dimensions given on plans & schedules are nominal. Coordinate dimensions in the field concerning frame & rough openings prior to fabrication & construction
6. Provide rated frames at rated doors. Door frame & hardware shall have the same ratings as the door hung within them. Provide label as required
7. Door handles shall be mounted at 38" AFF UNO
8. All interior doors shall have wall or floor stops to match door hardware finish UNO
9. Doors shall be minimally undercut to accept floor covering or finish
10. Outside of door frames shall be set 6" from adjacent wall or partition UNO
11. Reference finish plans for floor finish transitions at doors
12. Align transition of flooring material changes & graphic patterns with centerline of door. Provide threshold transition where applicable or as noted on floor finish drawings
13. Exit doors hall be accessible, slope finish paving from flush with finish floor to public way not to exceed 1:20 slope
14. Provide weatherstrip at exterior & doors within partitions with acoustic rating
15. Door hardware shall comply with the Americans With Disabilities Act, including but not limited to: a. Max 1/2" threshold with 1:2 slope, b. Push / pull handles or lever handles, c. Door closers meet ADA force & sweep period requirements
16. Locate all door closers on interior room side of door

Abbreviations:

AL	Aluminum
ES	Electric Strike
FG	Fiberglass
GL1	1/4" tempered glass
GL2	1" insulated glass
HCW	Hollow core wood
HM	Hollow metal
MTL	Metal
PR	Pair
PREF	Prefinished
PVC	Polyvinyl chloride
SCW	Solid core wood
SS	Stainless steel
STN	Stained & sealed
TF	Transparent finish
VCF	Vinyl-clad fiberglass
WD	Wood

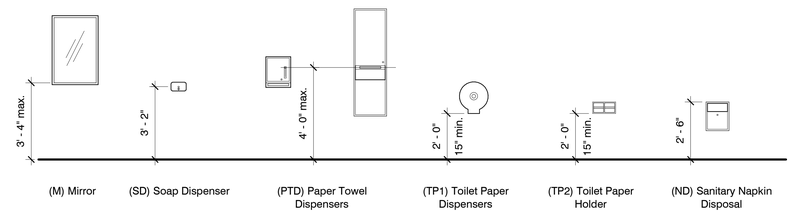


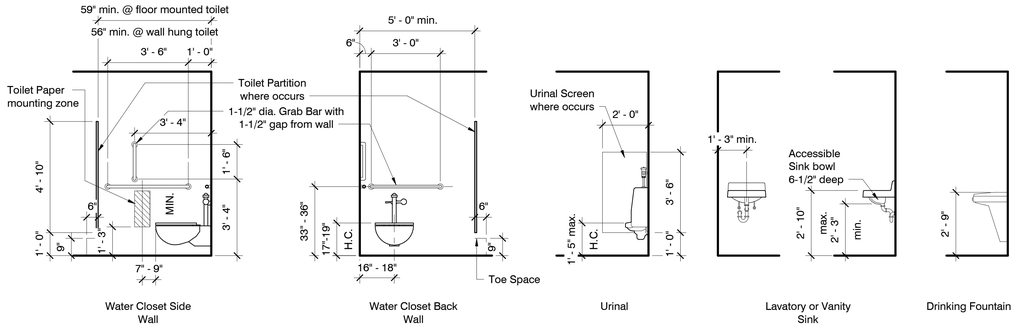
1 Typical Interior Head
3" = 1'-0"



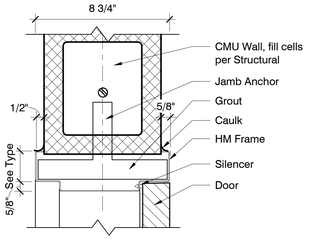
4 Typical Exterior Head
3" = 1'-0"

Mounting heights are for general reference only. Refer to enlarged restroom plans for actual accessories to be installed.

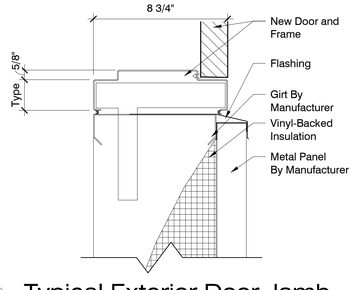




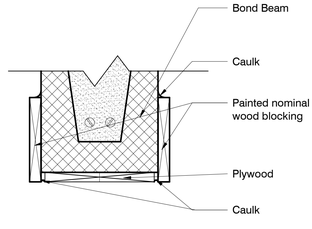
9 Typical Accesory Mounting Heights
3/8" = 1'-0"



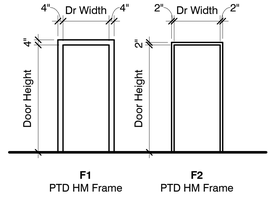
2 Typical Interior Jamb
3" = 1'-0"



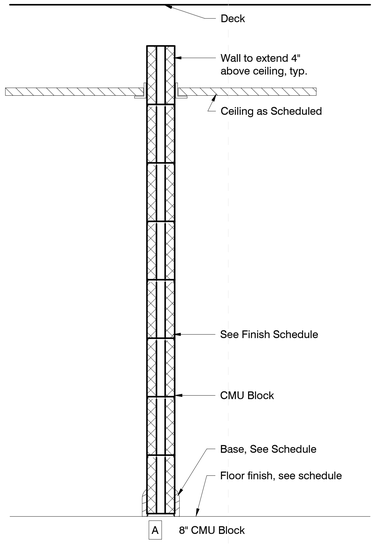
5 Typical Exterior Door Jamb
3" = 1'-0"



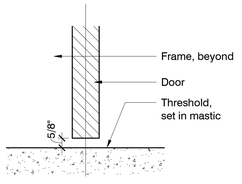
7 Typical Cased Opening Head
3" = 1'-0"



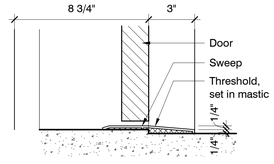
Frame Types
1/4" = 1'-0"



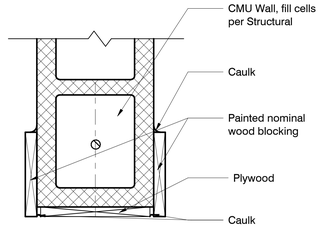
10 Partition Type
1 1/2" = 1'-0"



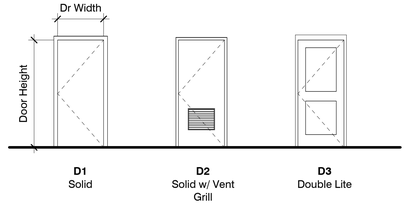
3 Typical Interior Door Sill
3" = 1'-0"



6 Typical Exterior Door Sill
3" = 1'-0"



8 Typical Cased Opening Jamb
3" = 1'-0"



Door Types
1/4" = 1'-0"

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New Gym at Brooks Elementary
Duncan, Mississippi

Construction Documents

Project No	19093
Date	March 2022
Revisions	Rev Date

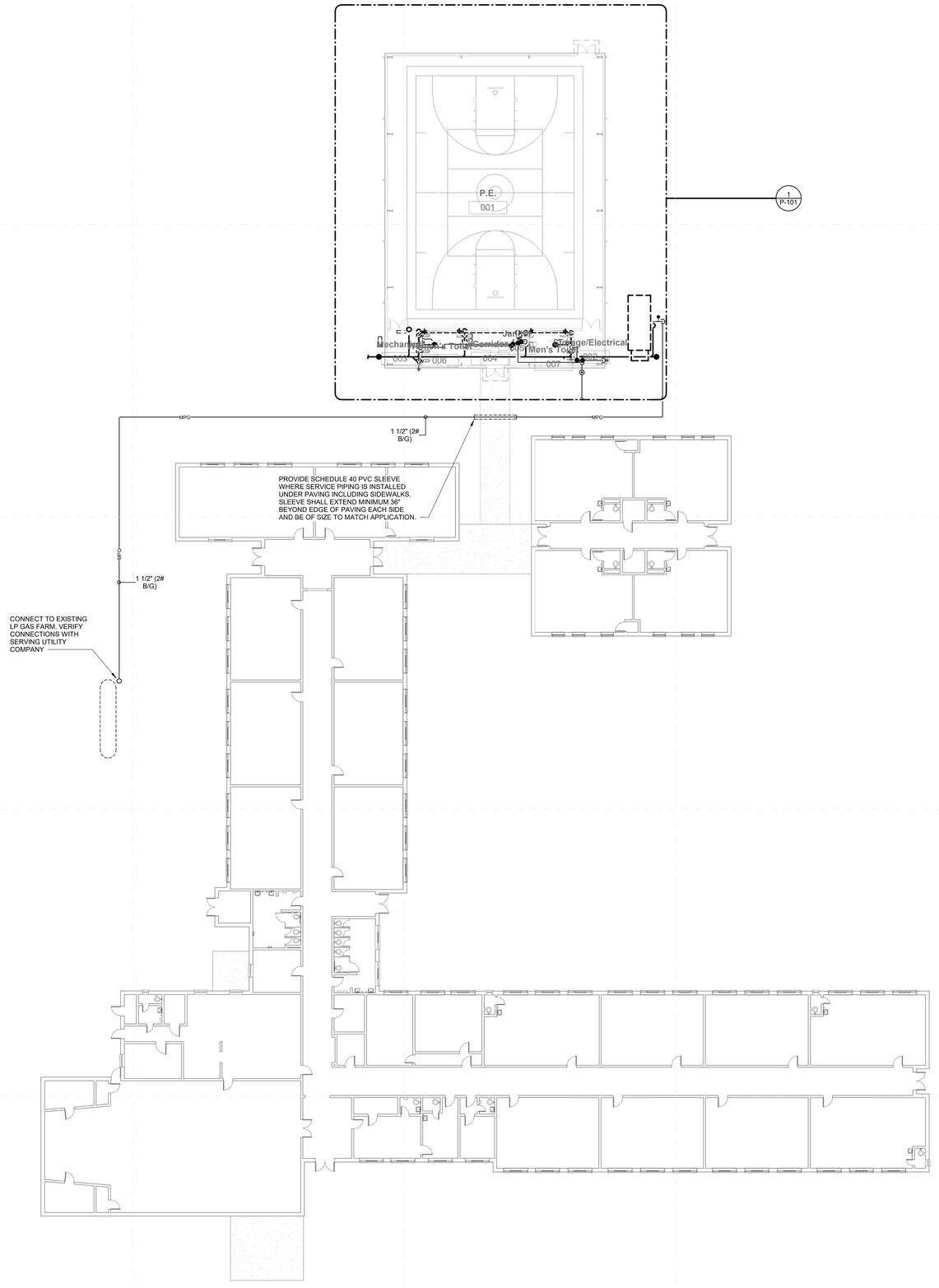
A-621
Schedules

LEGEND - PLUMBING

MARK	DESCRIPTION
W	NEW SITE WATER SERVICE PIPING
MPG	NEW MEDIUM PRESSURE LP GAS PIPING
G	NEW LOW PRESSURE LP GAS PIPING
	NEW SANITARY VENT PIPING
SS	NEW SANITARY WASTE PIPING
PCW	NEW POTABLE COLD WATER PIPING
PHW	NEW POTABLE HOT WATER PIPING (120°F)
D	NEW CONDENSATE DRAIN PIPING
TW	NEW TEMPERED WATER PIPING
	FULL PORT BALL VALVE (LEAD FREE)
	CIRCUIT SETTER TYPE MANUAL BALANCING VALVE
	GAS COCK
	UNION
OR	CHECK VALVE
	TYPICAL FINISHED GRADE CLEANOUT
	THERMOMETER WITH WELL
HB	HOSE BIBB
WCO	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	TYPICAL NATURAL GAS REGULATOR AND/OR METER
	TYPICAL NEW DEEP SHUTOFF VALVE IN TELESCOPIC CAST IRON VALVE BOX WITH COVER LABELED "WATER"
FD	FLOOR DRAIN
HW	HOT WATER
CW	COLD WATER
W	WASTE
V	VENT
A/C	ABOVE CEILING
B/S	BELOW SLAB
A/G	ABOVE FINISHED GRADE
B/G	BELOW FINISHED GRADE
DN.	DOWN
FFCO	FINISHED FLOOR CLEANOUT
FGCO	FINISHED GRADE CLEANOUT
VTR	VENT THRU ROOF
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
TP	TRAP PRIMER BELOW SLAB/FLOOR

GENERAL PLUMBING NOTES:

1. PROVIDE ALL PLUMBING PIPING, FIXTURES, TRIM, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM. VERIFY WITH ARCHITECT AND DRAWINGS, WHICH PLUMBING INSTALLATIONS ARE DESIGNATED FOR ADA ACCESSIBILITY. ALL SUCH FIXTURE INSTALLATIONS SHALL INCLUDE ALL INSTALLATION ACCESSORIES, MOUNTING/LIP HEIGHT, CONTROL OFFSET, SIZE AND ACCESSIBILITY AS REQUIRED BY LATEST EDITION OF AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL GOVERNING AUTHORITIES.
2. ALL PLUMBING VENTS, WHERE NOTED VENT UP (V. UP), SHALL BE COMBINED WITHIN WALL OR ABOVE CEILING CONCEALED AREAS, WHERE FEASIBLE, SO AS TO MINIMIZE ROOF PENETRATIONS. COORDINATE LOCATION OF ROOF PLUMBING AND FLUE VENTS SUCH THAT ALL VENTS ARE MINIMUM 15 FEET FROM ANY VENTILATION INTAKE DEVICES. ALL ROOF PENETRATIONS, VENTS, FLUES, ETC., SHALL BE MADE ON BACK SIDE OF ROOF AS CAN BE COORDINATED WITH ARCHITECT. ALL FLUES AND VENTS EXPOSED ABOVE ROOF SHALL BE FIELD PAINTED COLOR BY ARCHITECT.
3. ALL PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS, EXCEPT AS OTHERWISE NOTED AND AT APPROPRIATE EQUIPMENT FINAL CONNECTIONS. HOLD ALL PIPING ABOVE CEILINGS AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER CRAFTS.
4. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH STRUCTURAL MEMBERS, EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
5. VERIFY/COORDINATE PIPE SIZES AND CONNECTIONS WITH "PLUMBING FIXTURE ROUGH-IN SCHEDULE" FOR WASTE, VENT AND WATER PIPING ROUGH-IN SIZES NOT CLEARLY SHOWN ON PLANS OR IN RISER DIAGRAMS, ETC. CONTACT PROFESSIONAL SHOULD QUESTIONS OR CONFLICTS ARISE. PROVIDE ROUGH-IN, FINAL CONNECTIONS AND INSTALLATION APPURTENANCES AS RECOMMENDED BY APPLIANCE AND/OR EQUIPMENT MANUFACTURER FOR DISHWASHERS, ICE MAKERS, AND MACHINES, WASHERS, DRYERS, ETC. VERIFY LOCATION ON ARCHITECTURAL DRAWINGS AND CONNECTION REQUIREMENTS FROM APPROVED BROCHURES OF THE EQUIPMENT AND/OR APPLIANCES MANUFACTURER.
6. COORDINATE SLOPE OF ALL DRAINAGE AND VENT PIPING BELOW GRADE AT INVERT ELEVATIONS INDICATED. CONSISTENTLY SLOPE ALL OTHER PIPING, NOT INDICATED, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
7. ALL VERTICAL RISERS TO FLOOR DRAINS AND FLOOR MOUNTED SINKS SHALL BE MAXIMUM 24" LONG.
8. ALL ABOVE GRADE HORIZONTAL DRAINAGE AND VENT PIPING ROUTING SHALL BE COORDINATED WITH OTHER CRAFTS AND STRUCTURAL/ARCHITECTURAL DRAWINGS. CONSISTENTLY SLOPE ALL PIPING, NOT INDICATED WITH ELEVATIONS, AS REQUIRED BY PLUMBING CODE APPLICABLE TO THIS PROJECT BUT IN NO CASE LESS THAN 1%.
9. WHEN SLEEVES, PIPES, CONDUITS, ETC. PENETRATE GRADE BEAMS OR TIE BEAMS, INCREASE THE DEPTH OF THE PENETRATED BEAM BY NO LESS THAN TWICE THE DIAMETER OF THE PENETRATION FOR A DISTANCE OF 4'-0" CENTERED ON THE PENETRATION. WHERE THE PENETRATION INTERRUPTS REINFORCING STEEL, AN EQUAL NUMBER OF LIKE SIZE REINFORCING BARS SHALL BE BENT UNDER THE PENETRATION AND LAP SPLICED 30 BAR DIAMETERS ON EACH SIDE. CONCRETE COVER REQUIREMENTS ON ALL SIDES SHALL BE THE SAME AS SHOWN FOR THE UN-MODIFIED GRADE BEAM OR TIE BEAM. SEE STRUCTURAL DRAWINGS FOR FURTHER SPECIFICS, ETC. PROVIDE NEW SCHEDULE 40 PVC PIPE SLEEVE A MIN. TWO SIZES LARGER THAN CARRIER PIPE AT ALL SUCH CROSSINGS, TO EXTEND MIN. 6" PAST FOUNDATION ON BOTH ENDS. PROVIDE OAKUM AND SEALANT IN ANNULAR SPACE OF SLEEVES AND WATER PROOF ON ALL BUILDING PERIMETER AND INTERIOR FOOTING AND GRADE BEAM APPLICATIONS.
10. ALL CLEANOUTS IN SANITARY, STORM AND CONDENSATE DRAIN PIPING SHALL BE FULL PIPE SIZE UP TO 4" AND SHALL BE 4" SIZE ON 6" AND LARGER PIPING.



1 P-001 **Overall Brooks Elementary Plumbing Plan**
1/16" = 1'-0"

CODE REVIEW	
DESIGN CODE	2012 INTERNATIONAL CODE COUNCIL (ICC)

DRAWING INDEX - PLUMBING

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PRELIMINARY PRINT NOT FOR CONSTRUCTION
DATE: 1/5/22

New Gym at Brooks Elementary
Duncan, Mississippi

100% Construction Documents

Project No	19093
Date	January 2022
Revisions	Rev Date

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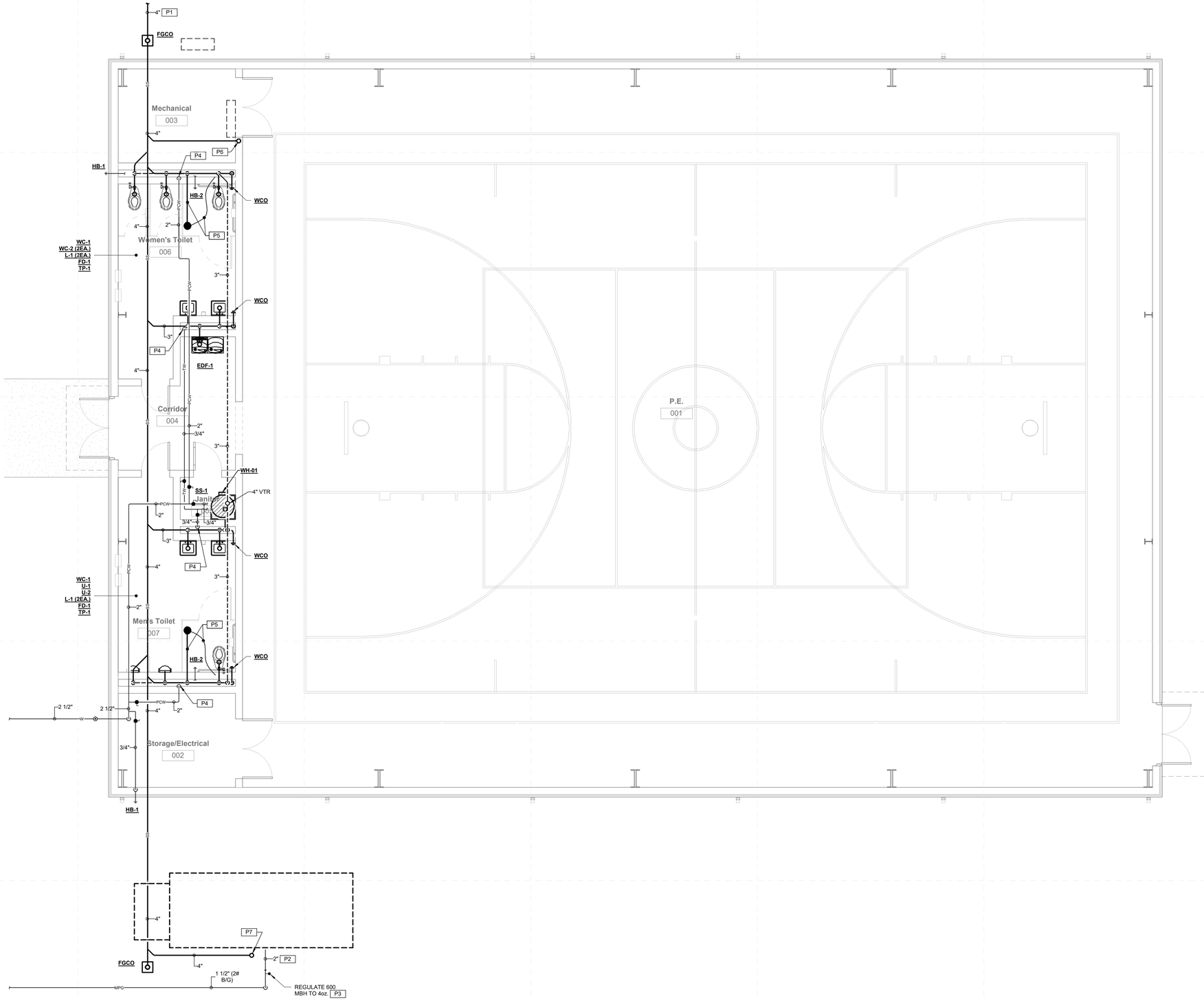
www.gskmech.com
GSK#:110-090

P-001
Overall Brooks Elementary Plumbing Plan

SPECIFIC PLUMBING NOTES	
P1	TYPICAL SERVICE PIPING BELOW GRADE. SEE CIVIL DRAWINGS FOR CONTINUATION.
P2	ROUTE NEW GAS PIPING ATOP UNISTRUT SUPPORTS ATOP NEW EQUIPMENT CONCRETE PAD.
P3	PROVIDE GAS REGULATOR (SEE DETAIL). SEE DRAWINGS FOR CAPACITY. PROVIDE VENTLESS REGULATOR OR EXTEND VENT AWAY FROM O/A INTAKE ON HVAC UNITS WHERE APPLICABLE.
P4	EXTEND NEW FULL SIZE WATER HEADER PIPING HORIZONTALLY IN PLUMBING CHASES WITH BRANCH PIPING TO SERVE INDIVIDUAL FIXTURES SIZED PER PLUMBING FIXTURE ROUGH-IN SCHEDULE AND INCLUDING WATER HAMMER ARRESTERS.
P5	1/2" TYPE 'K' SOFT COPPER TRAP PRIMER AND 3" WASTE BELOW SLAB/FLOOR.
P6	INSULATE CONDENSATE DRAIN AND/OR SANITARY WASTE/VENT PIPING, INCLUDING TRAP AND SANITARY WASTE PIPING IN APPLICATIONS WHERE CONDENSATE FROM AIR CONDITIONING UNITS. INSULATION SHALL EXTEND FROM ORIGIN POINT OF COLD CONDENSATE AND EXTEND CONTINUOUS TO SLAB ON GRADE PENETRATION. INSULATE PER SPECIFICATIONS FOR CONDENSATE DRAIN PIPING.
P7	TYPICAL 4" TRAPPED HUB DRAIN FOR PAD MOUNTED PACKAGE UNIT CONDENSATE DRAIN. SEE DETAIL FOR CLARITY.



Enlarged Brooks Elementary Plumbing Plan

1 / P-101 1/4" = 1'-0"

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New Gym at Brooks Elementary

Duncan, Mississippi

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Project No	19093
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P-101

Enlarged Brooks Elementary Plumbing Plan

PLUMBING FIXTURE SCHEDULE

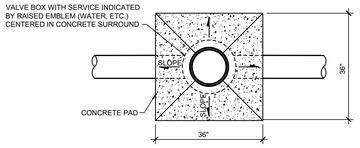
MARK	ADA REQ'D	DESCRIPTION	ROUGH-IN REQUIREMENTS					FLOOR MTND. CARRIER REQ'D
			WASTE	VENT	120 °F HW	CW	TEMPERED	
WC-1	YES	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (BATTERY OPERATED SENSOR)	4"	2"-4"	-	1"	-	NO
WC-2	NO	WATER CLOSET - FLOOR MOUNTED FLUSH VALVE (BATTERY OPERATED SENSOR)	4"	2"-4"	-	1"	-	NO
U-1	YES	URINAL - WALL MOUNTED WASHOUT TYPE (BATTERY OPERATED SENSOR)	2"	2"	-	3/4"	-	YES
U-2	NO	URINAL - WALL MOUNTED WASHOUT TYPE (BATTERY OPERATED SENSOR)	2"	2"	-	3/4"	-	YES
L-1	YES	LAVATORY - WALL MOUNTED TYPE (BATTERY OPERATED SENSOR)	2"	2"	1/2"	1/2"	1/2"	YES
SS-1	NO	SERVICE SINK - FLOOR MOUNTED TERRAZZO CORNER TYPE, 24"	3"	2"	1/2"	1/2"	-	NO
EDF-1	YES	ELECTRIC DRINKING FOUNTAIN - WALL MOUNTED TYPE (DUAL HEIGHT) w/BOTTLE FILLER	2"	2"	-	1/2"	-	YES
HB-1	NO	HOSE BIBB - NON-FREEZE TYPE IN LOCKING BOX	-	-	-	3/4"	-	NO
HB-2	NO	HOSE BIBB - MILD CLIMATE TYPE IN LOCKING BOX	-	-	-	3/4"	-	NO
TP-1	NO	TRAP PRIMER - CONNECT TO FLUSH VALVE ASSEMBLY	-	-	-	1/2"	-	NO
FD-1	NO	FLOOR DRAIN - GENERAL DRAINAGE IN TOILET AREAS	3"	2"	-	-	-	NO

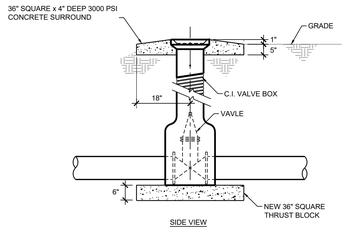
DOMESTIC WATER HEATER SCHEDULE

MARK	FUEL	STORAGE CAP., GAL.	RECOVERY G.P.H. AT 100 °F RISE	MAX. GPM	INPUT KW	INPUT MBH	ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ACCESSORIES
WH-01	ELEC.	30	24	-	6.0	-	208V.,1ph	A.O. SMITH MODEL DEL-30	1, 2

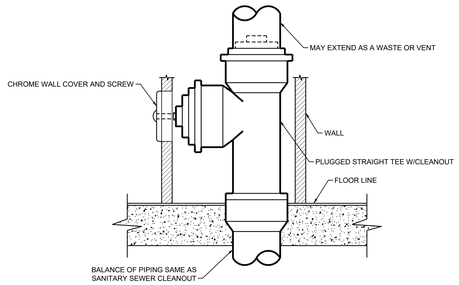
FEATURES/ACCESSORIES:

1. PROVIDE PIPING, VALVES AND ACCESSORIES PER DETAILS.
2. PROVIDE HEAVY DUTY WALL MOUNTING KIT WITH TOP MOUNTED AT ± 2" BELOW CEILING.



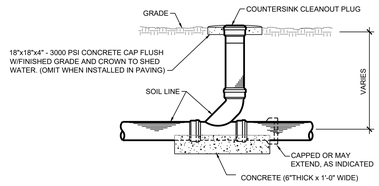


DEEP SHUTOFF VALVE DETAIL
N.T.S.

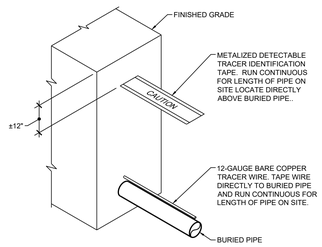


WALL CLEANOUT DETAIL
N.T.S.

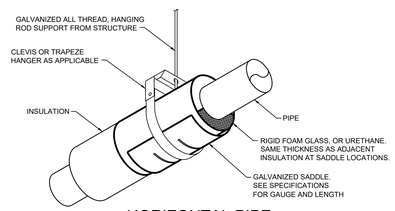
NOTE:
EXAMPLE SHOWN IS CAST IRON; PVC/DWV EXAMPLE SIMILAR.



ONE-WAY FLUSH GRADE
CLEANOUT DETAIL
N.T.S.

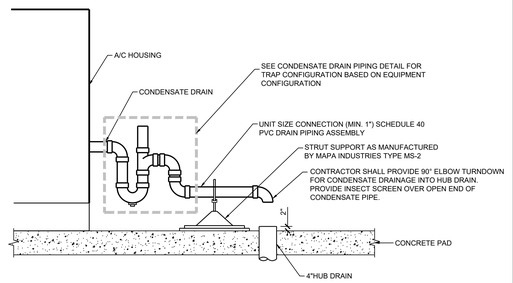


UNDERGROUND DETECTION
TRACER TAPE DETAIL
N.T.S.

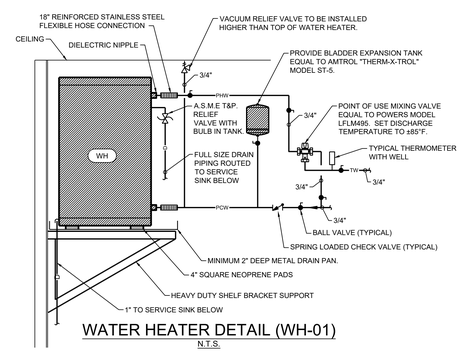


HORIZONTAL PIPE
INSULATION AND HANGING DETAIL
N.T.S.

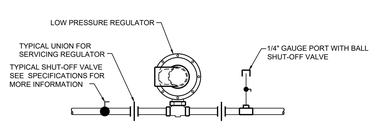
NOTE: UNINSULATED GAS PIPING SIMILAR



A/C UNIT CONDENSATE DRAIN PIPING
N.T.S.

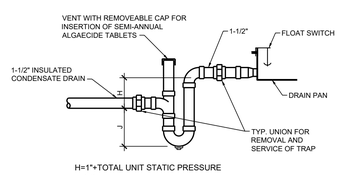


WATER HEATER DETAIL (WH-01)
N.T.S.



GAS REGULATOR DETAIL
N.T.S.

NOTES:
1. PROVIDE VENT TO OUTDOORS FOR ALL REGULATORS LOCATED INSIDE BUILDING.
2. SEE PLANS FOR PIPE SIZES.
3. SEE REGULATOR SCHEDULE FOR INLET PRESSURE, OUTLET PRESSURE AND MBH (CFH) REQUIREMENTS.



H=1"+TOTAL UNIT STATIC PRESSURE
J=1/2"H

DRAW THRU
CONDENSATE DRAIN PIPING
N.T.S.

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New Gym at Brooks Elementary

Duncan, Mississippi

100% Construction Documents

Project No	19093
Date	January 2022
Revisions	Rev Date

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P-201

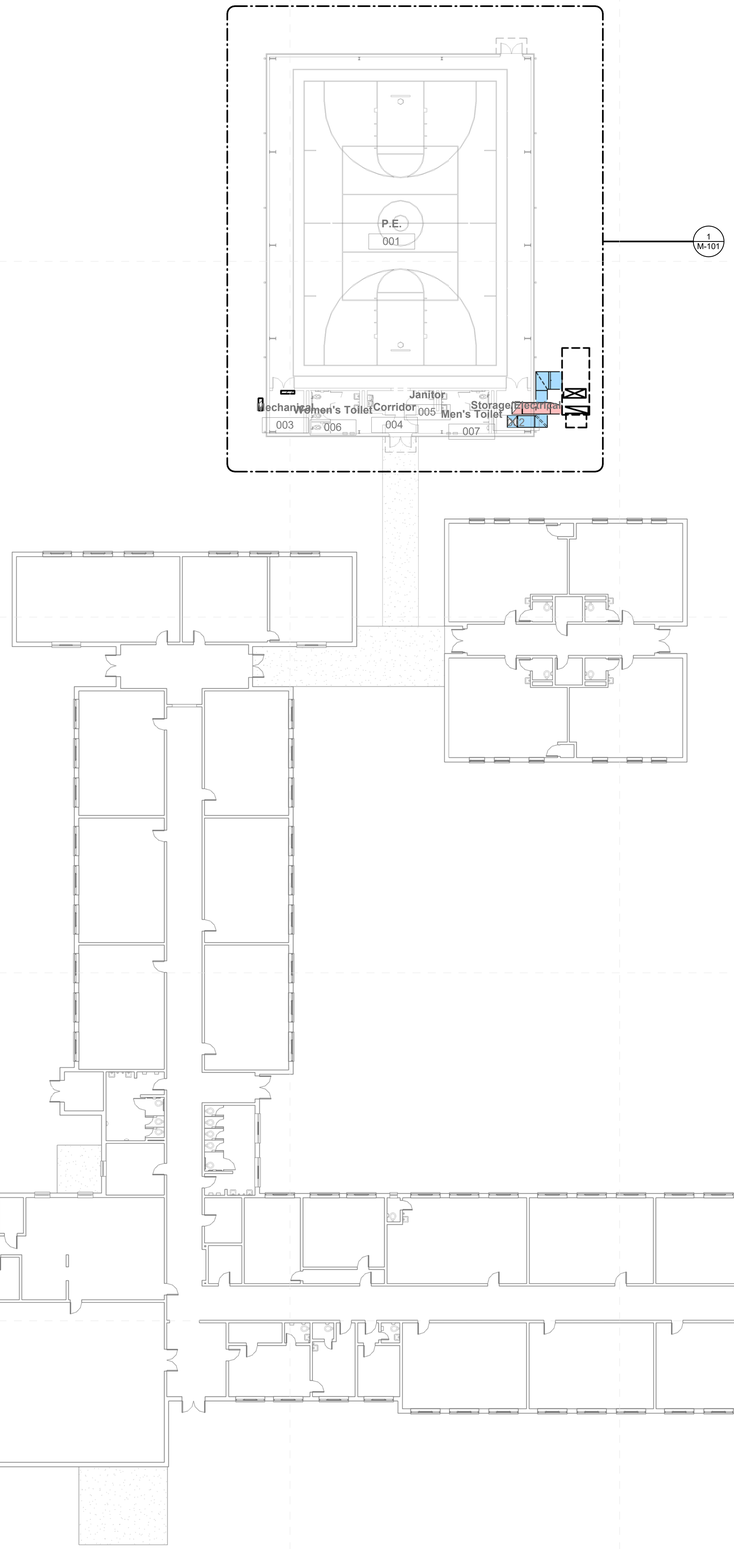
Plumbing Schedules and Details

LEGEND - HVAC

MARK	DESCRIPTION
	TYPICAL SUPPLY AIR DIFFUSER (ARROWS INDICATE AIR FLOW THROW DIRECTION)
	TYPICAL EXHAUST OR RETURN AIR REGISTER
	TYPICAL RECTANGULAR TO ROUND DUCT TRANSITION
	TYPICAL DUCTWORK INCREASER/REDUCER
	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER WITH VOLUME DAMPER
	TYPICAL ROUND DUCT BELLMOUTH TAKEOFF ADAPTER
	TYPICAL RECTANGULAR TO RECTANGULAR TAKEOFF ADAPTER WITH VOLUME DAMPER AND EXTRACTOR
	TYPICAL ADJUSTABLE LOCKING QUADRANT VOLUME DAMPER
S/A R/A E/A	WHEN PRINTED IN COLOR, SUPPLY DUCTWORK INDICATED BY BLUE COLOR, RETURN/TRANSFER DUCTWORK INDICATED BY RED COLOR AND EXHAUST DUCTWORK INDICATED BY GREEN COLOR. WHEN PRINTED IN GRAYSCALE, ALL DUCTWORK APPEARS THE SAME AND INDICATION OF DUCTWORK TYPE IS DETERMINED BY EQUIPMENT/GRILLES SERVED (SEE OTHER LEGENDS FOR MORE INFORMATION).
24"x14"	RECTANGULAR DUCT WITH SIZE LISTED. THE "x" DENOTES RECTANGULAR DUCT. (THE FIRST NUMBER INDICATES DUCT WIDTH PARALLEL TO VIEW WHILE THE SECOND NUMBER INDICATES DEPTH PERPENDICULAR TO VIEW). SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
18"ø	ROUND DUCT WITH SIZE LISTED. THE "ø" DENOTES ROUND DUCT. SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
18"ø	SOCK DUCT WITH SIZE LISTED. THE "ø" DENOTES ROUND DUCT. SEE PLANS AND SPECIFICATIONS FOR DUCT CONSTRUCTION REQUIREMENTS.
S/L	NEW REFRIGERANT SUCTION AND LIQUID PIPING
T	AUTOMATIC HEATING/COOLING CHANGEOVER PROGRAMMABLE THERMOSTAT MOUNTED AT 48" AFF BEHIND PERFORATED METAL TAMPER PROOF COVER
MT	MANUFACTURER'S AUTOMATIC CHANGEOVER THERMOSTAT MOUNTED AT 48" AFF
H	HIGH HUMIDITY SENSOR MOUNTED AT 84" AFF BEHIND PERFORATED METAL TAMPER PROOF COVER
	TYPICAL AIR FOIL TURNING VANES
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
ISD	DUCT MOUNTED SMOKE DETECTOR

GENERAL HVAC NOTES:

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE IN STRICT CONFORMANCE. ANY ADDITIONAL MATERIALS AND/OR LABOR REQUIRED TO CONFORM WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE PROVIDED COMPLETE AND WITHOUT ADDITIONAL COST TO THE CONTRACT.
2. THE LOCATION OF ALL AIR DISTRIBUTION DEVICES TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LOCATION OF DUCTWORK IN ALL AREAS TO MATCH CEILING GRID/LIGHT FIXTURES WHILE MAXIMIZING CEILING HEIGHT SCHEDULED ON ARCHITECTURAL PLANS.
3. COORDINATE LOCATION OF ALL OUTDOOR AIR INTAKES FOR HVAC SYSTEMS AND MAINTAIN MINIMUM 15'-0" DISTANCE TO FLUES, VENTS, EXHAUST/FANS, ETC.
4. WALL LOUVERS AND BRICK VENTS TO BE OF ALUMINUM CONSTRUCTION AND HAVE FACTORY COLORED FINISH. THE COLOR TO BE SELECTED BY THE ARCHITECT.
5. DUCTWORK AND OTHER MECHANICAL OPENINGS THROUGH MASONRY WALLS SHALL BE REINFORCED/SUPPORTED AS DETAILED ON STRUCTURAL DRAWINGS. COORDINATE THE LOCATIONS AND SIZES OF THESE PENETRATIONS MAKING ALLOWANCES FOR INSULATION, FIRE DAMPERS, PIPING SLEEVES, ETC.
6. DUCTWORK EXPOSED OUTSIDE (TO WEATHER) SHALL BE COMPREHENSIVELY SEALED AIRTIGHT, INCLUDING ALL CONNECTIONS AND CIRCUMFERENTIAL AND LONGITUDINAL SEAMS, ETC. A RECOMMENDED SEALANT SYSTEM, SUCH AS HARDCAST DT-5300, SHALL BE APPLIED WITH FTO-20 FLEXIBLE ADHESIVE, OR EQUAL. DUCTWORK SHALL BE SUITABLY SUPPORTED WITH HEEL AND WALL GALVALUME/GALVANIZED AUXILIARY SUPPPORTS. ENTIRE INSTALLATION SHALL BE NEAT, INCLUDING SEALANT. ALL DUCTWORK SHALL BE ATTACHED TO HVAC UNIT CONNECTIONS WITH WEATHERPROOF FLEXIBLE CONNECTIONS. DUCTWORK AND AUXILIARY SUPPORTS SHALL BE NEATLY PRIMED AND PAINTED.



1 / M-001 Overall Brooks Elementary HVAC Plan

1/16" = 1'-0"

CODE REVIEW	
DESIGN CODE	2012 INTERNATIONAL CODE COUNCIL (ICC)

DRAWING INDEX - MECHANICAL	
Sheet Number	Sheet Name
M-001	Overall Brooks Elementary HVAC Plan
M-101	Enlarged Brooks Elementary HVAC Plan
M-201	Mechanical Schedules
M-301	Mechanical Details

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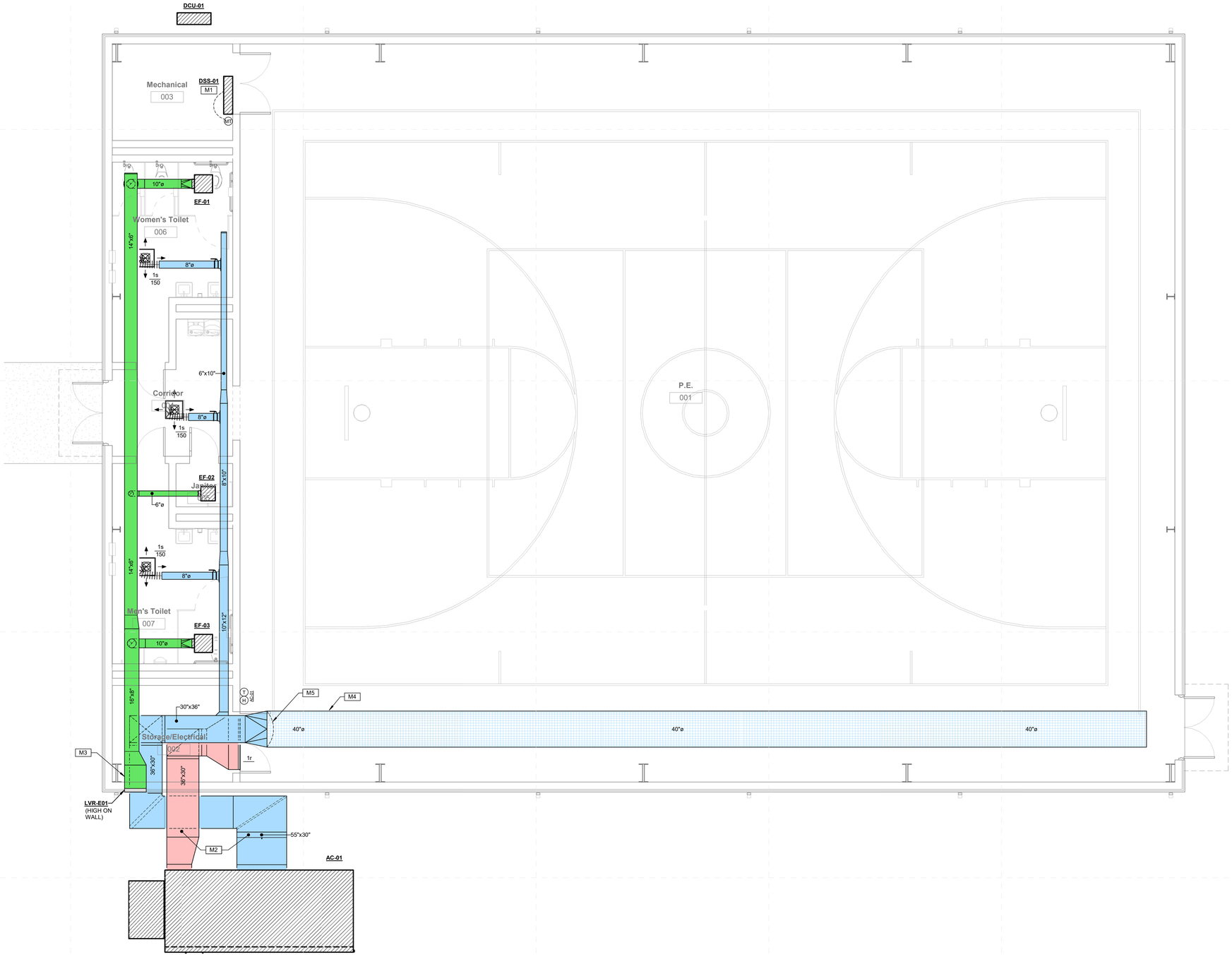
M-001
Overall Brooks Elementary HVAC Plan

SPECIFIC HVAC NOTES	
M1	DUCTLESS MINI-SPLIT MOUNTED HIGH ON WALL ABOVE DOOR. SEE DETAIL.
M2	OUTDOOR DUCTWORK. SEE GENERAL HVAC NOTES FOR DETAILED REQUIREMENTS.
M3	PROVIDE 24" DEEP INTERIOR LINED PLENUM ON REAR OF LOUVER. TAP PLENUM WITH DUCT AS INDICATED.
M4	FABRIC DUCT: SEE DETAIL AND/OR SCHEDULE FOR AIRFLOW DISTRIBUTION PATTERN REQUIREMENTS.
M5	AIR STRAIGHTENING CONE PROVIDED BY FABRIC DUCT MANUFACTURER.



1 M-101 Enlarged Brooks Elementary HVAC Plan

1/4" = 1'-0"

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M-101

Enlarged Brooks Elementary HVAC Plan

SELF-CONTAINED PACKAGED UNIT SCHEDULE

MARK	AIRFLOW DATA							COOLING CAPACITY (ALL VALUES LISTED ARE NET CAPACITIES)									HEATING CAPACITY (REHEAT POSITION)						ELECTRICAL DATA						BASIS OF DESIGN	FEATURES/ACCESSORIES	MARK
	SUPPLY AIR		OUTSIDE AIR C.F.M.	SINGLE ZONE VAV AIRFLOW C.F.M.				DESIGN CONDITIONS							GENERAL		PRIMARY	SECONDARY													
	TOTAL CFM	E.S.P. IN. W.G.		COOLING MIN.	COOLING MAX.	HEATING MIN.	HEATING MAX.	O.A. TEMP. °F D.B.	O.A. TEMP. °F W.B.	COIL E.A.T. °F D.B.	COIL E.A.T. °F W.B.	COIL L.A.T. °F D.B.	COIL L.A.T. °F W.B.	TOTAL MBH	SENS. MBH	MIN. NO. OF STAGES	MIN. E.E.R.	HOT GAS REHEAT COIL CAPACITY (MBH)	FUEL	MAX. INPUT MBH	MAX. OUTPUT MBH	MIN. NO. OF STAGES	MIN. A.F.U.E.	SERVICE	SUPPLY FAN HP	SUPPLY FAN DRIVE TYPE	EXHAUST FAN HP	MCA	MOCP			
AC-01	13,000	1.00	2,000	6,500	13,000	6,500	13,000	95.6	76.7	78.0	65.0	55.9	54.9	366.4	289.7	3	10.5	211.7	N. GAS	600.0	480.0	2	80	208V.,3ph	10	BELT	1	183.6	225	TRANE MODEL YCH-420	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	AC-01

NOTES:

1. ALL RATINGS ARE AT SPECIFIED DESIGN DAY, CFM AND EXTERNAL STATIC PRESSURE CONDITIONS.
2. MINIMUM A.F.U.E. - AS SCHEDULED.
3. ALSO DEFINED AS NUMBER OF INDEPENDENT REFRIGERANT CIRCUITS.
4. MINIMUM REHEAT CAPACITY COINCIDENT WITH ONLY LEAD CIRCUIT COOLING SYSTEM ENERGIZED.
5. SEE SPECIFICATIONS FOR CONTROLS INFORMATION.
6. SEE SPECIFICATIONS FOR COORDINATION OF SMOKE DETECTORS.
7. ALL UNITS SHALL UTILIZE R-410A REFRIGERANT.
8. FOR UNITS WITH VARIABLE SPEED DRIVES, PROVIDE SUBMITTAL DATA FOR BOTH THE OPERATING AND MAXIMUM TOTAL STATIC PRESSURE AT DESIGN SUPPLY CFM (UTILIZING MAXIMUM BHP AVAILABLE IN MOTOR). BELTS/PULLEYS TO BE PROVIDED BASED UPON MAXIMUM TOTAL STATIC PRESSURE.
9. UNIT SHALL BE STARTED UP AND CHECKED OUT BY A FACTORY SERVICE REPRESENTATIVE. PROVIDE COPY OF START-UP REPORT AND MANUFACTURER'S REGISTERED CASE NUMBER IN CLOSE-OUT DOCUMENTATION.

FEATURES/ACCESSORIES:

1. EVAPORATOR LOW LIMIT TEMPERATURE AND TIME DELAY AUTOMATIC RESTART CONTROLS FOR EACH CIRCUIT.
2. HEAD PRESSURE CONTROL KIT.
3. FACTORY MOUNTED AND POWERED GFI CONVENIENCE OUTLET.
4. SINGLE POINT POWER CONNECTION WITH INTEGRAL DISCONNECT.
5. HINGED ACCESS DOORS, WEATHERPROOF GASKETED SEALS AND TOOL-LESS QUARTER TURN LATCHES ON COMPRESSOR, EVAPORATOR FAN, CONTROLS AND AIR FILTER SECTIONS.
6. PHASE LOSS/PHASE REVERSAL, OVER/UNDER VOLTAGE AND BROWN OUT ELECTRICAL PROTECTION ON ENTIRE UNIT.
7. THRU-BASE ELECTRICAL CONNECTION.
8. HEAVY DUTY CONDENSER COIL HAIL GUARDS.
9. LOW AMBIENT CONTROLS DOWN TO 0°F.
10. MODULATING HOT GAS REHEAT COIL.
11. MOTORIZED OUTSIDE AIR DAMPER.
12. PROVIDE WITH NEEDLE POINT IONIZATION DEVICES PER SCHEDULE
13. FULL ECONOMIZER WITH DIFFERENTIAL ENTHALPY BASED CONTROLS AND POWERED RELIEF FAN.
14. VFD FOR VARIABLE AIR VOLUME CONTROL.
15. HORIZONTAL DUCT CONNECTIONS OR SOLID BOTTOM HORIZONTAL DISCHARGE CURB. SEE DETAIL.
16. DUCT MOUNTED SUPPLY AND RETURN SMOKE DETECTORS WIRED TO SHUT-DOWN UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION
17. LP GAS CONVERSION KIT

COMPARABLE PRODUCTS:
TRANE, CARRIER, YORK, DAIKIN, LENNOX OR APPROVED

NEEDLEPOINT BI-POLAR IONIZATION DEVICES SCHEDULE

EQUIPMENT SERVED	DEVICE MOUNTING LOCATION	BASIS OF DESIGN	FEATURES/ ACCESSORIES
PACKAGED UNITS (GROUND MOUNTED)	IN UNIT DOWNSTREAM OF FILTERS	GLOBAL PLASMA MODEL GPS-FC-3-BAS	1, 2, 3, 4, 5
DUCTLESS INDOOR HEAT PUMP UNITS	IN UNIT DOWNSTREAM OF FILTERS	GLOBAL PLASMA MODEL IRIB	1, 2, 3, 5

COMPARABLE PRODUCTS:
PLASMA AIR, BIOCLIMATIC

FEATURES/ACCESSORIES:

1. UL 2998 AND UL 867 COMPLIANT
2. 24 VAC POWER SUPPLY VOLTAGE.
3. CONNECT TO UNIT CONTROL POWER AS REQUIRED.
4. MULTIPLE UNITS MAY BE REQUIRED BASED UPON AIRFLOW OF EQUIPMENT BEING SERVED. COORDINATE WITH INDIVIDUAL UNIT AIRFLOW.
5. PROVIDE HANDHELD ELECTRICAL TESTING DEVICE WITH BOTH VISIBLE AND AUDIBLE INDICATION (ONE PER PROJECT TO BE TURNED OVER TO OWNER).

FABRIC DUCT/DIFFUSER SCHEDULE

SYSTEM	DIFFUSER/PERFORATION SIZE AND LOCATION	AIRFLOW (CFM)	FABRIC DUCT SIZE	FABRIC DUCT LENGTH	INLET SP (INCHES WATER)	INSTALLATION TYPE	BASIS OF DESIGN	FEATURES/ACCESSORIES
AC-01	1.6" NOZZLES @ 255" AND 230"	13,000	SEE PLANS	SEE PLANS	0.50	DOUBLE ROW CABLE WITH INTERNAL RINGS	PRIHODA PMI SERIES	1, 2, 3, 4, 5
	1.6" PERFORATIONS @ 200"							

FEATURES/ACCESSORIES:

1. ULC CLASSIFIED (723/UL2518) WITH ANTI-MICROBIAL TREATMENT.
2. TEN (10) YEAR NON-PRORATED WARRANTY.
3. VERIFY ALL LENGTHS WITH FIELD CONDITIONS.
4. CUSTOM COLOR AS SELECTED BY ARCHITECT.
5. AIR STRAIGHTENING CONES/BALANCING NOZZLE AS SHOWN ON DRAWINGS AND AS RECOMMENDED BY FABRIC DUCT MANUFACTURER.

COMPARABLE PRODUCTS:
PRIHODA (PMI), DUCTSOX (SEDONA-XM)

LOUVER SCHEDULE

MARK	FUNCTION	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	AIRFLOW (CFM)	S.P. (in W.G.)	MOTORIZED DAMPER	BASIS OF DESIGN	FEATURES/ACCESSORIES [1]
LVR-E01	EXHAUST	24	18	4	525	0.08	NO	GREENHECK MODEL EHH-401	1, 2, 3, 4, 5, 6

[1] FEATURES/ACCESSORIES:

1. MIN. 18 GA. GALVANIZED WALL SLEEVE SLOPED TOWARD OUTSIDE TO DRAIN
2. FLAT EXPANDED ALUMINUM BIRD SCREEN
3. KYNAR 500 FINISH ON LOUVER AND ALL LOUVER ACCESSORIES - CUSTOM COLOR SELECTION BY ARCHITECT
4. FLANGED FRAME
5. AMCA 550 (HIGH VELOCITY WIND DRIVEN RAIN)
6. EXTENDED SILL WITH END DAMS

COMPARABLE PRODUCTS:
GREENHECK, RUSKIN

AIR TERMINALS SCHEDULE

MARK	TYPE	CFM RANGE	NECK SIZE	FACE SIZE	DEFLECTION	V.D.*	FACTORY INSULATION**	BASIS OF DESIGN	FEATURES/ACCESSORIES
1s	GYP. CEILING MOUNTED SQUARE PLAQUE S/A DIFFUSER	75-225	8"Ø	20"x20"	AS INDIC.	NO	YES	PRICE MODEL SPD	1
1r	HEAVY DUTY R/A GYM GRILLE	13,000	60"x60"	AS REQ'D	0°	NO	NO	PRICE MODEL 95	

* V.D. - VOLUME DAMPER (FACTORY ACCESSORY)
** AIR DISTRIBUTION DEVICES WHERE NOTED TO INCLUDE FACTORY INSULATION ON REAR OF DEVICE

COMPARABLE PRODUCTS:
PRICE, TITUS, METALAIRE

FEATURES/ACCESSORIES:
1. PROVIDE WITH PLASTER RING FOR LAY-IN MOUNTING INSTALLATION INTO GYP CEILING.

DUCTLESS SPLIT SYSTEM (INDOOR SECTION) SCHEDULE

MARK	TYPE	TOTAL CFM	HEATING CAPACITY			COOLING CAPACITY			ELECTRICAL SERVICE	BASIS OF DESIGN	FEATURES/ ACCESSORIES	MATCHED TO
			INDOOR D.B., °F	OUTDOOR D.B., °F	TOT. REV. CYCLE MBH	EAT (°F) D.B.	EAT (°F) W.B.	TOTAL MBH				
DSS-01	WALL	800	70	47	26.0	80	67	22.0	208V.,1ph	LG MODEL LSN243HLV3	1, 2	DCU-01

*BASED ON 47 °F D.B. OUTSIDE AND 70 °F D.B. INDOOR ENTERING

FEATURES/ACCESSORIES:
1. PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT.
2. PROVIDE WITH NEEDLE POINT IONIZATION DEVICES PER SCHEDULE

COMPARABLE PRODUCTS:
MITSUBISHI, DAIKIN, LG

DUCTLESS SPLIT SYSTEM (OUTDOOR SECTION) SCHEDULE

MARK	COOLING CAPACITY			HEATING CAPACITY		MAXIMUM REFRIGERANT PIPE LENGTH (FT.)	ELECTRICAL SERVICE	BASIS OF DESIGN	MATCHED TO
	OUTDOOR D.B., °F	TOTAL MBH	MIN. S.E.E.R.	TOTAL REVERSE CYCLE, MBH*	HSPF				
DCU-01	95	22.0	21.5	26.0	12.0	164	208V.,1ph	LG MODEL LSU243HLV3	DSS-01

*BASED ON 47 °F D.B. OUTSIDE AND 70 °F D.B. INDOOR ENTERING COIL TEMPERATURE

COMPARABLE PRODUCTS:
MITSUBISHI, DAIKIN, LG

NOTES:
1. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.
2. PROVIDE LOW AMBIENT CONTROLS/CAPABILITY.
3. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHUTOFF KIT, LIQUID LINE FILTER DRYER AND WARRANTY AS SPECIFIED.
4. SEE SPECIFICATIONS FOR WARRANTY INFORMATION.
5. PROVIDE WITH INVERTER DUTY OR VARIABLE SPEED COMPRESSOR.

FAN SCHEDULE

MARK	TYPE [1]	CONTROL SEQ. [2]	OPERATING CFM	S.P. in W.G.	R.P.M.	MAX. SONES	MOTOR DATA H.P.	MOTOR DATA B.H.P.	MOTOR DATA WATTS	ELEC. SERVICE	DRIVE	BASIS OF DESIGN	FEATURES/ACCESSORIES
EF-01	A	A	225	0.375	994	3.0	-	-	83	120V.,1ph	DIRECT	GREENHECK MODEL SP-A250	1, 2, 3, 4, 5
EF-02	A	A	75	0.375	768	1.0	-	-	80	120V.,1ph	DIRECT	GREENHECK MODEL SP-B110	1, 2, 3, 4, 5
EF-03	A	A	225	0.375	994	3.0	-	-	83	120V.,1ph	DIRECT	GREENHECK MODEL SP-A250	1, 2, 3, 4, 5

[1] TYPE - SEE DETAILS FOR MORE INFORMATION:

A. CEILING CABINET TYPE

[2] CONTROL SEQUENCE:

A. EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHT OCCCUPANCY SENSOR IN SAME ROOM FAN SERVES.

[3] FEATURES/ACCESSORIES:

PROVIDE THE FOLLOWING MANUFACTURER'S ACCESSORIES

1. UL AND AMCA RATING
2. FACTORY MOUNTED & WIRED DISCONNECT
3. BACKDRAFT DAMPER
4. FACTORY MOUNTED & WIRED SOLID STATE SPEED CONTROLLER
5. ALUMINUM GRILLE

COMPARABLE PRODUCTS:
GREENHECK, COOK, PENN-BARRY

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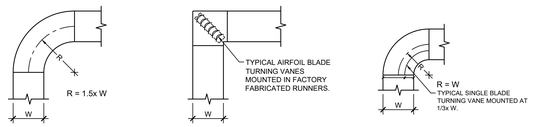
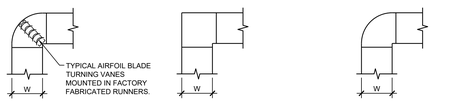
M-201

Mechanical Schedules



STANDARD (LONG RADIUS) ELBOW | STANDARD (HARD 90) ELBOW WITH TURNING VANES | STANDARD (SHORT RADIUS) ELBOW

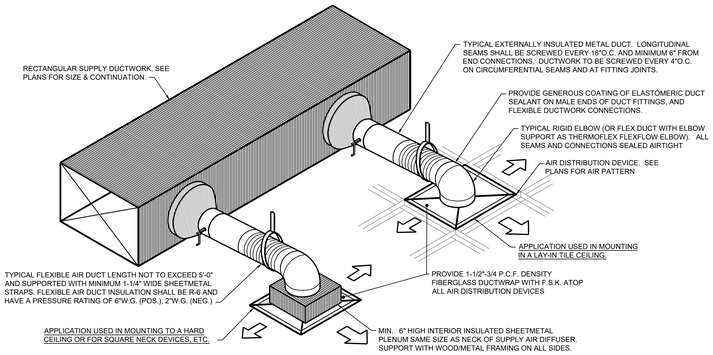
PERMITTED



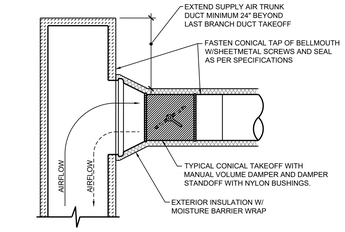
SQUARE THROAT ELBOW WITH TURNING VANES | STANDARD (HARD 90) ELBOW WITHOUT TURNING VANES | SQUARE THROAT ELBOW WITHOUT TURNING VANES

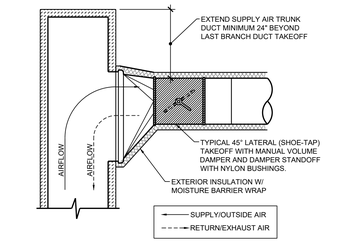
NOT PERMITTED

RECTANGULAR DUCT ELBOW DETAIL
N.T.S.



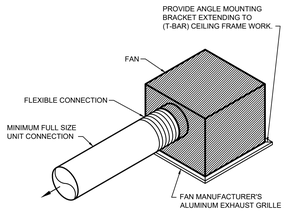
ROUND NECK DIFFUSER DETAIL
N.T.S.



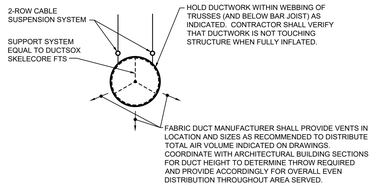


TYPICAL LOW PRESSURE RECTANGULAR TO ROUND DUCT TAKEOFF DETAIL
N.T.S.

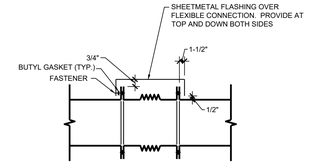
NOTE:
TAKE-OFF FITTINGS SHALL BE FACTORY FABRICATED SPIN-IN TYPE. NO DOVETAIL FIELD JOINTS OR FITTINGS ARE ALLOWED.



CEILING MOUNTED EXHAUST FAN DETAIL
N.T.S.

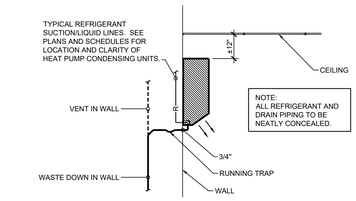


FABRIC DUCT SUPPORT DETAIL
N.T.S.



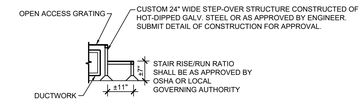
HORIZONTAL INSTALLATION

OUTDOOR FLEXIBLE DUCT CONNECTION DETAIL
N.T.S.

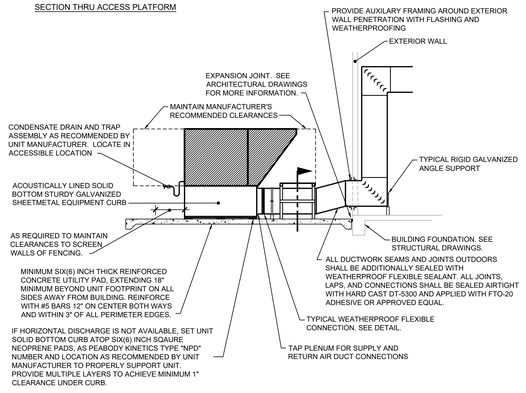


WALL MOUNTED HEAT PUMP FAN COIL DRAIN DETAIL
N.T.S.

NOTE:
INSULATE CONDENSATE DRAIN PIPING FROM CONNECTION TO UNIT TO SLAB.

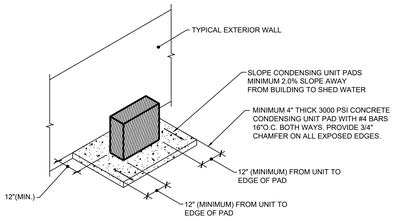


SECTION THRU ACCESS PLATFORM

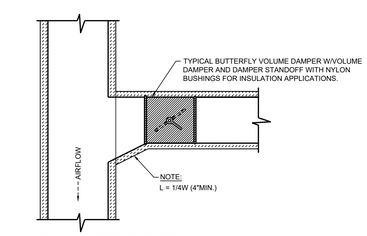


PAD MOUNTED HVAC PACKAGED UNIT DETAIL
N.T.S.

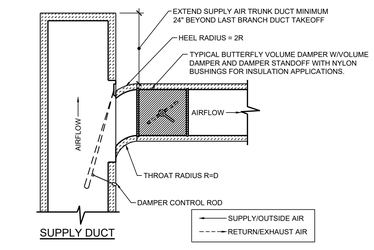
NOTE:
DUCTWORK AND AUXILIARY SUPPORTS SHALL BE NEATLY PRIMED AND PAINTED BY CONTRACTOR, WITH AN ALKYD-BASED RUST INHIBITIVE APPROVED PAINT SYSTEM



TYPICAL PAD MOUNTED CONDENSING UNIT DETAIL
N.T.S.



EXHAUST / RETURN DUCT



SUPPLY DUCT

TYPICAL LOW PRESSURE RECTANGULAR TO RECTANGULAR DUCT TAKEOFF DETAIL
N.T.S.

NOTE:
TAKE-OFF FITTINGS SHALL BE FACTORY FABRICATED SPIN-IN TYPE. NO DOVETAIL FIELD JOINTS OR FITTINGS ARE ALLOWED.

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New Gym at Brooks Elementary
Duncan, Mississippi

100% Construction Documents

Project No	19093
Date	January 2022
Revisions	Rev Date

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Consulting Engineering
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www.gskmech.com

GSK#: 110-090

M-301

Mechanical Details

ELECTRICAL LEGEND

GENERAL NOTES

1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.
3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.
4. DEVICES NOTED AS "DL" SHALL BE RATED FOR DAMP LOCATION.
5. DEVICES NOTED AS "NL" SHALL BE NIGHT LIGHTS. PROVIDE UNSWITCHED POWER TO FIXTURE.
6. DEVICES NOTED AS "WG" SHALL BE PROVIDED AND INSTALLED WITH A WIRE GUARD.
7. DEVICES NOTED AS "TR" SHALL BE TAMPER RESISTANT.
8. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.
9. "W/E" INDICATES DEVICE/DISCONNECT PROVIDED WITH THE EQUIPMENT BY OTHERS.

LUMINAIRES (See Light Fixture Schedule)

NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CIRCUIT NUMBER. THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.

- SURFACE MOUNTED OR SUSPENDED FIXTURE.
- RECESSED CEILING FIXTURE.
- CEILING MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- WALL MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.
- EXIT SIGN WITH EMERGENCY LIGHTING.
- EMERGENCY LIGHTING.
- WALL MOUNTED FIXTURE.

SWITCHES

- $ SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- 2P $ DOUBLE-POLE, SINGLE-THROW, 30 AMP SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- 3 $ THREE-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.
- (MD1) PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 12' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-9 OR APPROVED EQUAL.
- (MD2) PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSORSWITCH #CM-PDT-10 OR APPROVED EQUAL.
- (PP) POWER PACK MOUNTED ABOVE CEILING. SENSORSWITCH #PP20 OR APPROVED EQUAL.

FIRE ALARM SYSTEM

- (F) MANUAL PULL STATION. MOUNT 48"A.F.F. TO CENTERLINE OF BOX.
- (F) STROBE. MOUNT 80"A.F.F. TO BOTTOM OF BOX.
- (F) COMBINATION HORN AND STROBE AT 110 CANDELLA. MOUNT 80"A.F.F. TO BOTTOM OF BOX.
- (F) COMBINATION HORN AND STROBE. MOUNT 80"A.F.F. TO BOTTOM OF BOX.
- (F) SMOKE DETECTOR.
- (F) D_R DUCT SMOKE DETECTOR IN RETURN DUCT.
- (F) D_S DUCT SMOKE DETECTOR IN SUPPLY DUCT.
- (F) FIRE ALARM HORN AND STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX.
- (F) FIRE ALARM STROBE MOUNTED ON THE CEILING TO A FLUSH MOUNTED BOX.

INTRUSION DETECTION SYSTEM

- (KP) KEYPAD.
- (M) MOTION DETECTOR.
- (GB) GLASS BREAK DETECTOR.
- (DC) DOOR CONTACT.
- ALARM HORN.
- (IDCP) INTRUSION DETECTION CONTROL PANEL.

INTERCOM SYSTEM

- (S) CEILING SPEAKER.
- (S) WALL MOUNT SPEAKER.
- (CS) CALL-IN SWITCH.

GEAR

- ??/?? NON-FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE.
- ? PANELBOARD.

CONDUIT AND WIRING

- CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- #10 THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.
- CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).
- CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.
- LA-1 HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.
- LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.

VOLTAGE DROP CHART FOR 20A, 1Ø CIRCUITS

Voltage	Circuit Length	Conductor Size (AWG)
120	< 50'	#12
120	> 50'	#10
120	> 90'	#8
120	> 140'	#6
277	< 130'	#12
277	> 130'	#10
277	> 200'	#8
277	> 330'	#6

VOLTAGE DROP CHART NOTES:
1) CIRCUIT SIZES INDICATED ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. REFER TO THIS CHART FOR UPSIZING CONDUCTORS AS NEEDED.

2) DO NOT CONNECT CONDUCTORS LARGER THAN #10 DIRECTLY TO A RECEPTACLE OR A SWITCH. PROVIDE A JUNCTION BOX TO DOWNSIZE THE CONDUCTOR TO #12 AT THE DEVICE.

3) FOR CIRCUITS LONGER THAN THOSE LISTED ABOVE, CONSULT WITH THE ENGINEER FOR CONDUCTOR SIZES.

RECEPTACLES

- ? DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- ? DF DUPLEX RECEPTACLE, NEMA 5-20R, FOR DRINKING FOUNTAIN FED FROM GFCI BREAKER. MOUNTED IN ACCORDANCE WITH MANUFACTURER'S ROUGH-IN REQUIREMENTS. VERIFY CONNECTION TYPE PRIOR TO BID. RECEPTACLE SHALL BE MOUNTED, CONCEALED BEHIND THE SHROUD OF THE DRINKING FOUNTAIN.

COMMUNICATIONS

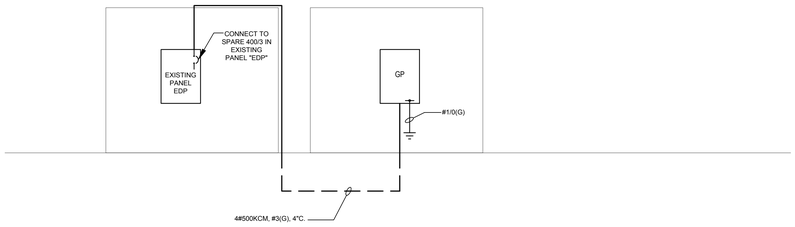
- DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- (W) WIFI.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	IBG-15000LM-SEF-L/LENS-GND MVOLT-GZ10-40K-80CRI-DWH-WGIBG22	LED, 95W 14,941 LUMENS	SURFACE	
B	LITHONIA	LBL4-3000LM-80CRI-40K-MIN10 GZT-MVOLT	LED, 25.6W 3,288 LUMENS	SURFACE	
C	LITHONIA	LDN6-40/10-L06/AR-LSS-MVOLT GZ10	LED, 10.4W 950 LUMENS	RECESSED	
EM	LITHONIA	ELM4L	LED, 3.15W	WALL	
X	LITHONIA	LHQM-LED-R	LED	UNIVERSAL	*WITH 120V EMERGENCY BATTERY PACK
X2	LITHONIA	LHQM-LED-R-ELA WG3	LED	UNIVERSAL	*WITH 120V EMERGENCY BATTERY PACK

PANEL **GP**
LOCATION: **ELECTRICAL ROOM** | LUG LOCATION: **BOTTOM FEED** | **NO SINGLE PHASE LOADS ON "B" PHASE**
VOLT: **240Δ/120V, 3Ø, 4W** | MAIN BUS: **MAIN LUGS ONLY**
BUS: **400A** | MOUNTING: **SURFACE** | PANELBOARD AIC RATING (A): **65,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A		PHASE LOAD (KVA) B		PHASE LOAD (KVA) C		DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - ELEC., WOMENS, CORR., JAN., MENS, MECH.	0.3	0.5					REC. - WOMENS, CORRIDOR, MENS	20	1	2
3			NO SINGLE PHASE LOADS			0.0	0.0			NO SINGLE PHASE LOADS			4
5	20	1	LTS. - GYM					1.1	0.5	REC. - DRINKING FOUNTIAN	*20	1	6
7	20	1	LTS. - GYM	1.1	0.5					REC. - DRINKING FOUNTIAN	*20	1	8
9	40	2	WH-01			3.0	0.0			NO SINGLE PHASE LOADS			10
11	-	-	-					3.0	0.4	REC. - GYM	20	1	12
13	30	2	DCU-01 & DSS-01	1.7	0.4					REC. - GYM	20	1	14
15	-	-	-			1.7	0.0			NO SINGLE PHASE LOADS			16
17	20	1	SPARE					0.0	0.4	REC. - GYM	20	1	18
19	20	1	SPARE	0.0	0.4					REC. - GYM	20	1	20
21			NO SINGLE PHASE LOADS			0.0	0.0			NO SINGLE PHASE LOADS			22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	22.9					AC - 01	225	3	26
27			NO SINGLE PHASE LOADS			0.0	22.9			-	-	-	28
29	20	1	SPARE					0.0	22.9	-	-	-	30
31	20	1	SPARE	0.0	0.0					SPARE	20	1	32
33			NO SINGLE PHASE LOADS			0.0	0.0			NO SINGLE PHASE LOADS			34
35	20	1	SPARE					0.0	0.0	SPARE	20	1	36
37	20	1	SPARE	0.0	0.0					SPARE	20	1	38
39			NO SINGLE PHASE LOADS			0.0	0.0			NO SINGLE PHASE LOADS			40
41	20	1	SPARE					0.0	0.0	SPARE	20	1	42
TOTAL				27.8		27.6		28.2		* GFCI BREAKER			



1 / E-000 ONE LINE DIAGRAM
Scale: NONE

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Duncan, Mississippi

Construction Documents

Project No	21060
Date	December 2021
Revisions	Rev Date

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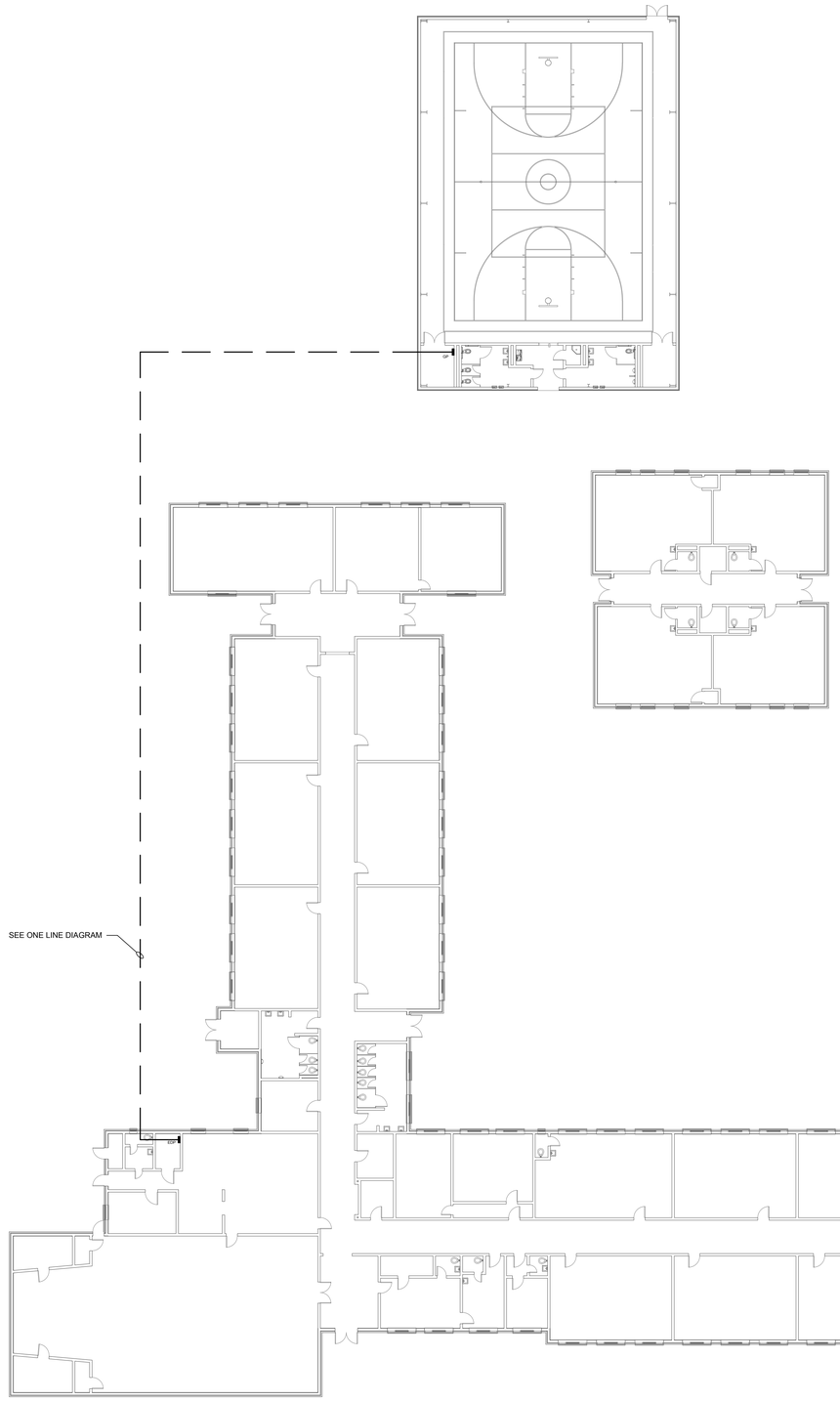
Floor Plan



1 F-001 SITE PLAN
Scale: 1/16" = 1'- 0"

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Floor Plan

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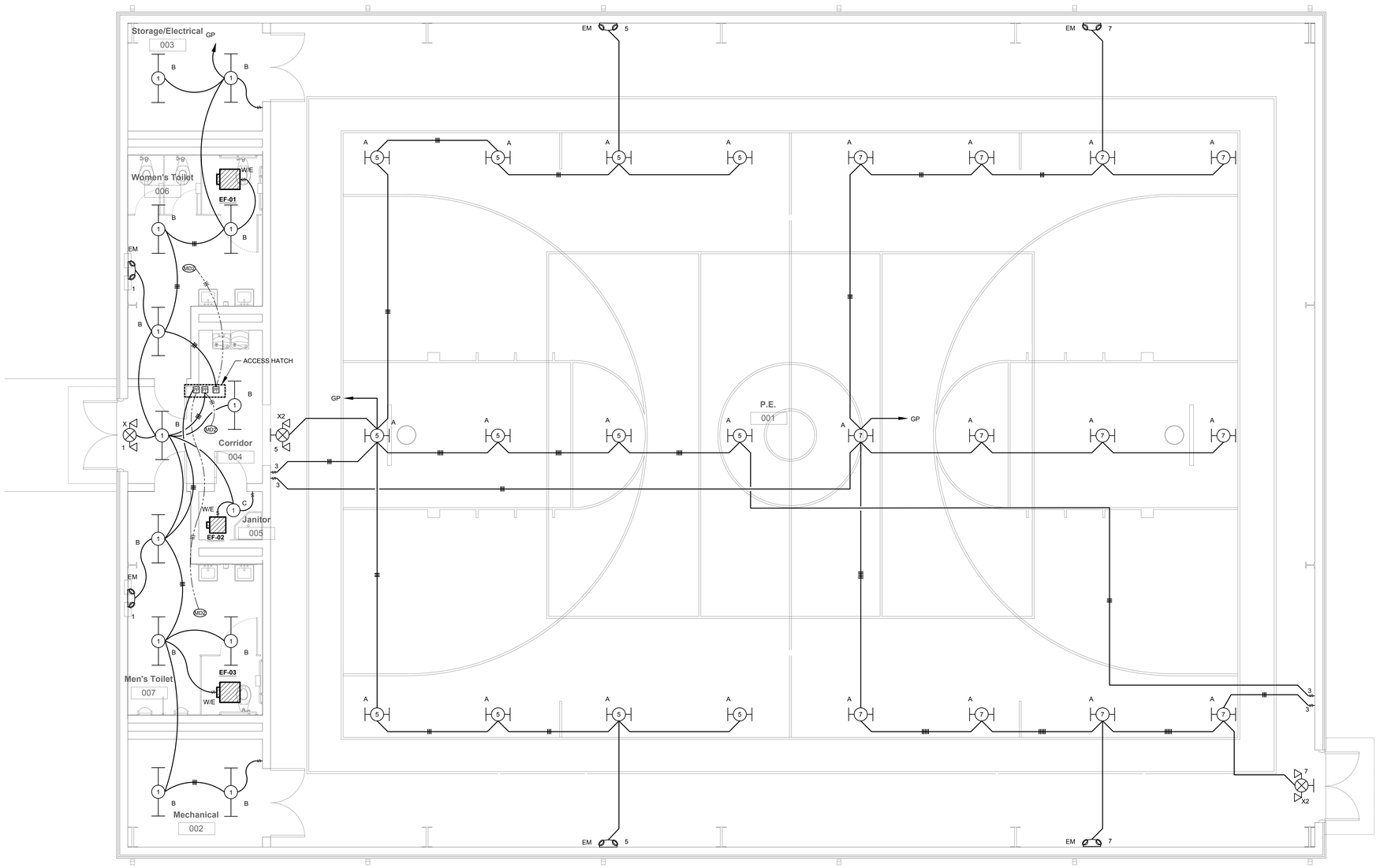

1 E-100 LIGHTING PLAN

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

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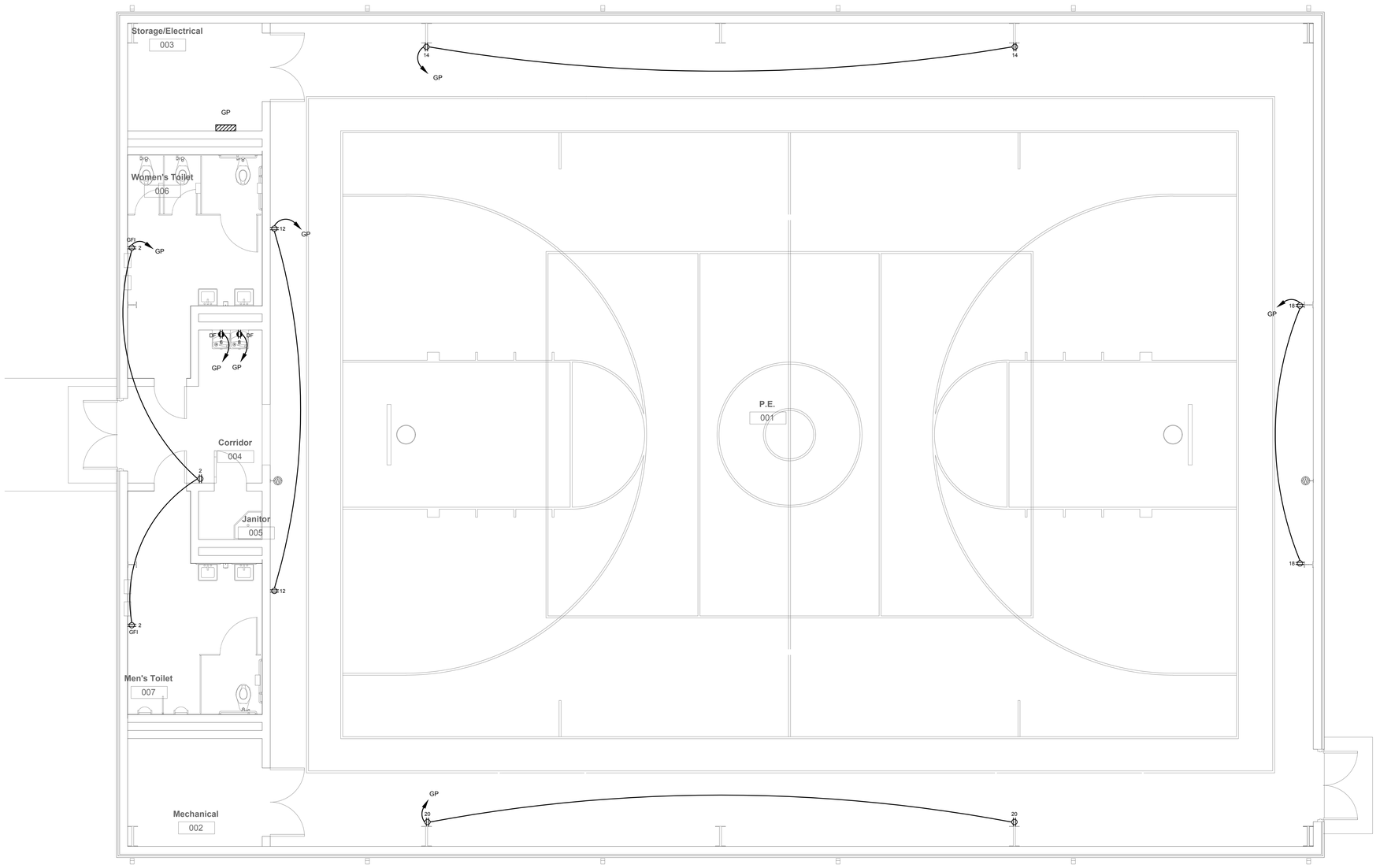
Floor Plan



1 E-200 POWER PLAN
Scale: 1/4" = 1'- 0"

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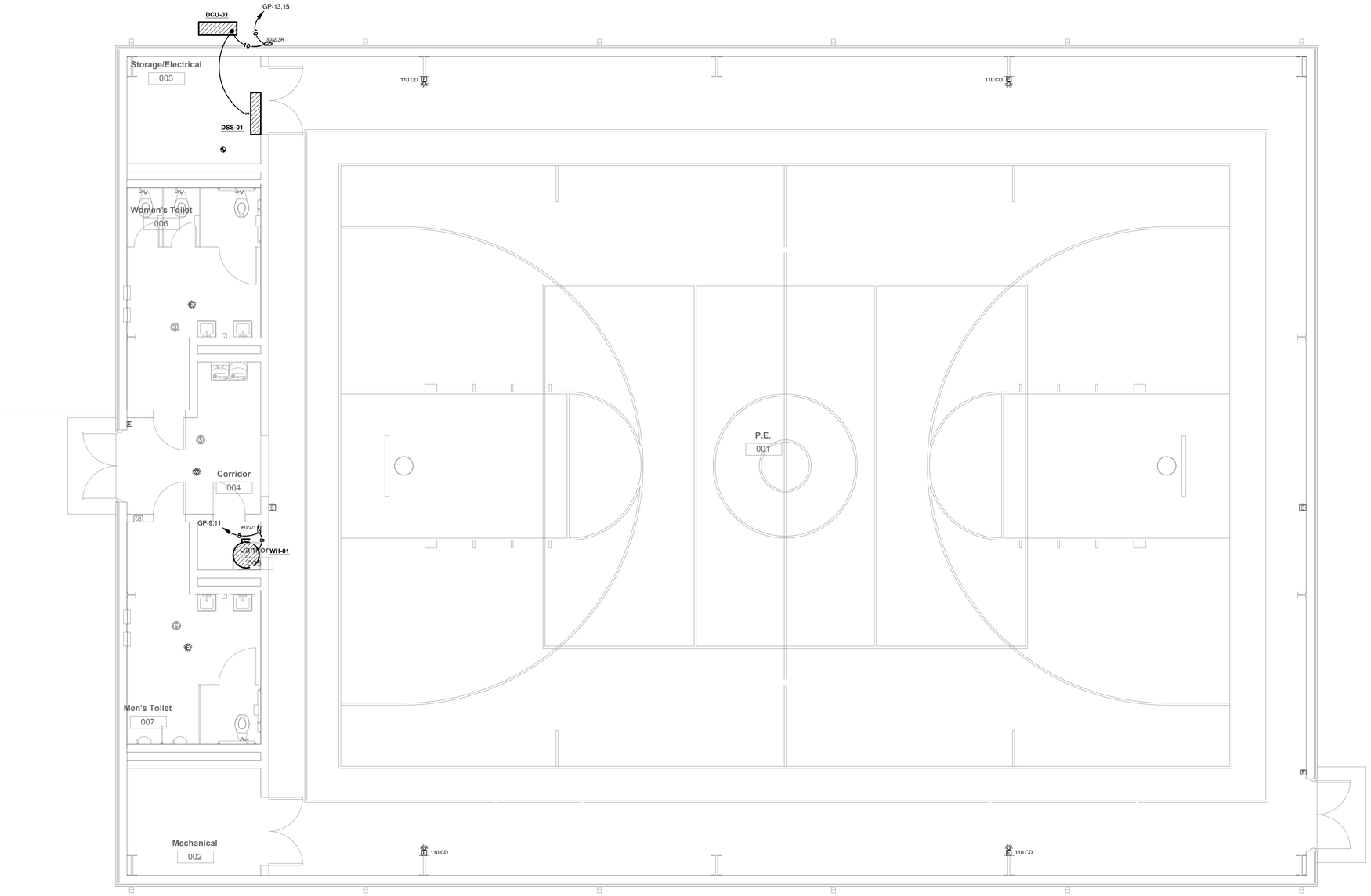
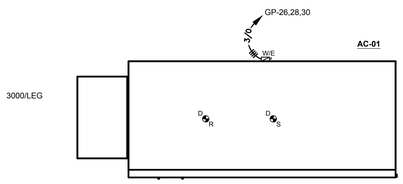
Floor Plan





1 E-300 MECHANICAL PLAN
Scale: 1/4" = 1'- 0"

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Floor Plan