

DATE:

5/21/2025

AGENDA ITEM (ACTION ITEM):

Consider / Approve the Design Development plans for the Piner renovation project (BG 25-353).

APPLICABLE BOARD POLICY:

01.1 Legal Status of the Board; 04.31 Authority to Encumber and Expend Funds; 702 KAR 4:160

HISTORY/BACKGROUND:

The Design Development plans for the Piner renovation project reflects the input of the KCSD team, architects from Emboss Design, civil engineers from Bayer Becker, and mechanical engineers from CMTA Engineering. The project is focused on site circulation improvements, roof replacement, interior renovations of restrooms and the gymnasium, and exterior renovations. The plans are reflective of the evolutionary design process subsequent to the schematic design that was approved by the Board on May 5, 2025.

FISCAL/BUDGETARY IMPACT:

The fiscal impact will be determined upon issuance of final construction documents and drawings by Emboss Design.

RECOMMENDATION:

Approve the Design Development plans for the Piner renovation project (BG 25-353).

CONTACT PERSON:

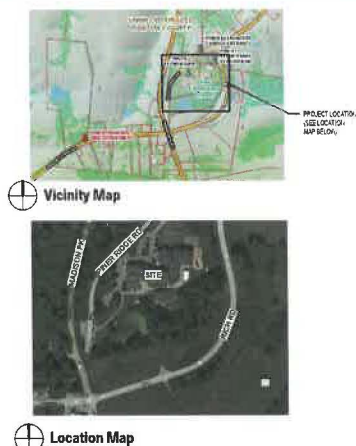
Matt Rigg, Chief Operations Officer

Principal/Administrator

District Administrator

Superintendent

*Use this form to submit your request to the Superintendent for items to be added to the Board Meeting Agenda
Principal – Complete, print, sign and send to your Director. Director – if approved, sign and put in the Superintendent's mailbox*



Team

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KENTON COUNTY SCHOOL DISTRICT
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EMBOSS
908 Monmouth Street, Newport, KY 41071
Ph: 859.431.8612

MEP Engineer:
CMITA, INC.
1100 Sycamore St., Suite 409, Cincinnati, OH 45202
Ph: 513.428.4404

Structural Engineer:
ADVANTAGE STRUCTURAL ENGINEERS
1527 Madison Road, Cincinnati, OH 45206
Ph: 513.328.6900

Design that Makes A Mark.

PINER ELEMENTARY RENOVATION KENTON COUNTY SCHOOL DISTRICT

2845 PINER RIDGE RD, MORNING VIEW, KY

BG# 25-353

Drawing List

Sheet Number	Sheet Name	Sheet Issue Date
0100	COVER SHEET	05/15/25
0101	ARCHITECTURAL SITE PLAN	05/15/25
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0103	ENLARGED DEMOLITION PLANS	05/15/25
0104	ARCHITECTURAL	05/15/25
0105	GENERAL FLOOR PLANS	05/15/25
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0113	PUMPING DEMOLITION ROOF PLAN	05/15/25
0114	ENLARGED PUMPING DEMOLITION PLANS	05/15/25
0115	PUMPING FLOOR PLANS	05/15/25
0116	PUMPING ROOF PLAN	05/15/25
0117	ENLARGED PUMPING PLANS	05/15/25
0118	MECHANICAL	05/15/25
0119	MECHANICAL DEMOLITION ROOF PLAN	05/15/25
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0121	MECHANICAL FLOOR PLAN	05/15/25
0122	ENLARGED MECHANICAL PLANS	05/15/25
0123	ENLARGED MECHANICAL PLANS	05/15/25
0124	MECHANICAL CONTROLS	05/15/25
0125	MECHANICAL DETAILS	05/15/25
0126	MECHANICAL SCHEDULES	05/15/25
0127	ELECTRICAL	05/15/25
0128	ELECTRICAL LEGEND	05/15/25
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0145	TECHNOLOGY DETAILS & DIAGRAMS	05/15/25

General Project Notes

DIVISION 01 - GENERAL REQUIREMENTS

01000 - CONSTRUCTION REQUIREMENTS

- Contractor shall be responsible for verification and coordination of sub-contractors work to ensure compliance with the drawings and specifications.
- Safety in accordance with generally accepted construction practices. Contractor will be solely and completely responsible for the safety of all jobsite personnel and the safety of the public during the performance of the work. This responsibility shall be continuous and not be limited to normal working hours.
- The Architect shall not be responsible for the means, methods, techniques, sequences or procedures of construction unless directed by the Contractor.
- All dimensions are to be of concrete, base of masonry, base of steel or column, unless otherwise noted. Any dimension noted as "CLEAR" or "CLR" is from finished face to finished face.

01050 - QUALITY REQUIREMENTS

- The Contractor shall obtain and pay for all required permits and inspections unless indicated otherwise.
- All work shall conform to the current building code, and all applicable laws, rules, regulations and ordinances or governing authorities. In case of conflict the most restrictive shall not be less than the applicable.
- The term "finish" when used shall mean "finish and install" unless noted otherwise.
- Provision blocking in walls, ceilings, etc. where doors shall be attached to these sufficient to hold doors open, and required door stops, frames, casework, hardware, etc. (e.g., doors, etc.).
- Provide fireproofing at all locations required by governing codes and authorities. Contact building inspector for inspection of all fireproofing prior to installation of any material which may conceal the fireproofing.
- All steel exposed to the exterior shall be galvanized and painted, unless noted to be stainless steel or painted steel.

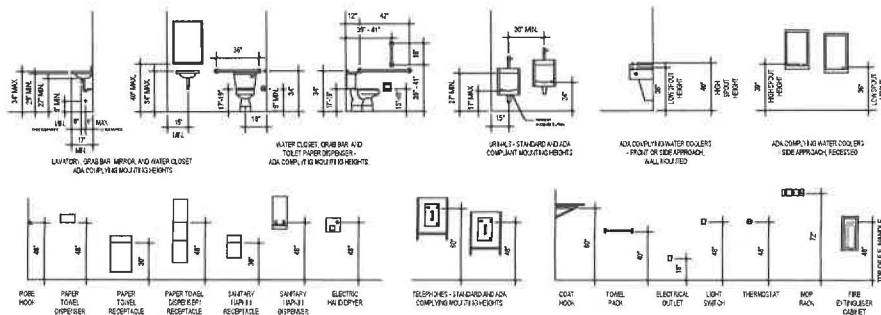
01060 - TEMPORARY FACILITIES AND CONTROLS

- Contractor is responsible for providing any temporary electrical service, heating and trash removal as needed to complete the work.
- Contractor shall collect and remove all debris, surplus material, tools and scaffolding pertaining to his work on a regular basis throughout the construction in order to maintain an unobstructed work environment.
- Temporarily brace structural components as required to maintain stability until complete and functioning as a designed unit.
- Fumes and dust shall be controlled so as to prevent any harmful or undesirable effects on the surrounding area.

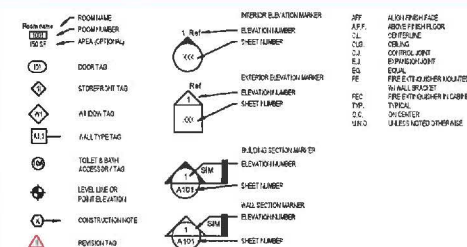
DIVISION 02 - EXISTING CONDITIONS

02000 - ADDITION

- Commencement of work by the Contractor or Trade shall signify the acceptance of the site conditions.
- Area and dimensions shall be the responsibility of the Contractor(s) or Trade(s) to verify all area, volume and dimensions by making their own field measurements before any work is ordered or materials.
- The Contractor shall verify at the jobsite, all dimensions and conditions shown on the drawings and within the Contract Documents and shall notify the Architect of any discrepancies, omissions and/or conflicts before proceeding with the project. All discrepancies shall be resolved before starting work or ordering materials.
- The Contractor shall not make drawings, written dimensions and plans, large scale drawings shall govern over small scale drawings. Field verify existing conditions when no dimensions are.
- All dimensions to existing construction are to the finished face. All dimensions to new construction are to face of concrete, face of masonry, base of steel or column unless noted otherwise. Any dimension noted as "CLEAR" or "CLR" is from finished face to finished face.
- Contractor shall verify location of all existing utilities. Take precautions as necessary to protect them. Repair all utilities damaged during construction to be as close to the Owner.
- Contractor shall replace topsoil and re-seed lawn areas disturbed by construction.
- The removal and installation of mechanical, electrical, plumbing and architectural items may require the penetration or removal of existing floors, ceilings, and walls. Patch and finish all existing surfaces that are disturbed during construction unless noted otherwise.



Standard Accessible Mounting Heights



Symbol Legend & Abbreviations



Emboss Design/Draw
908 Monmouth Street
Newport, KY 41071

PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY

BG# 25-353

NO. DESCRIPTION DATE
DESIGN DEV. SET 05/20/25

COVER SHEET

25-011

G100



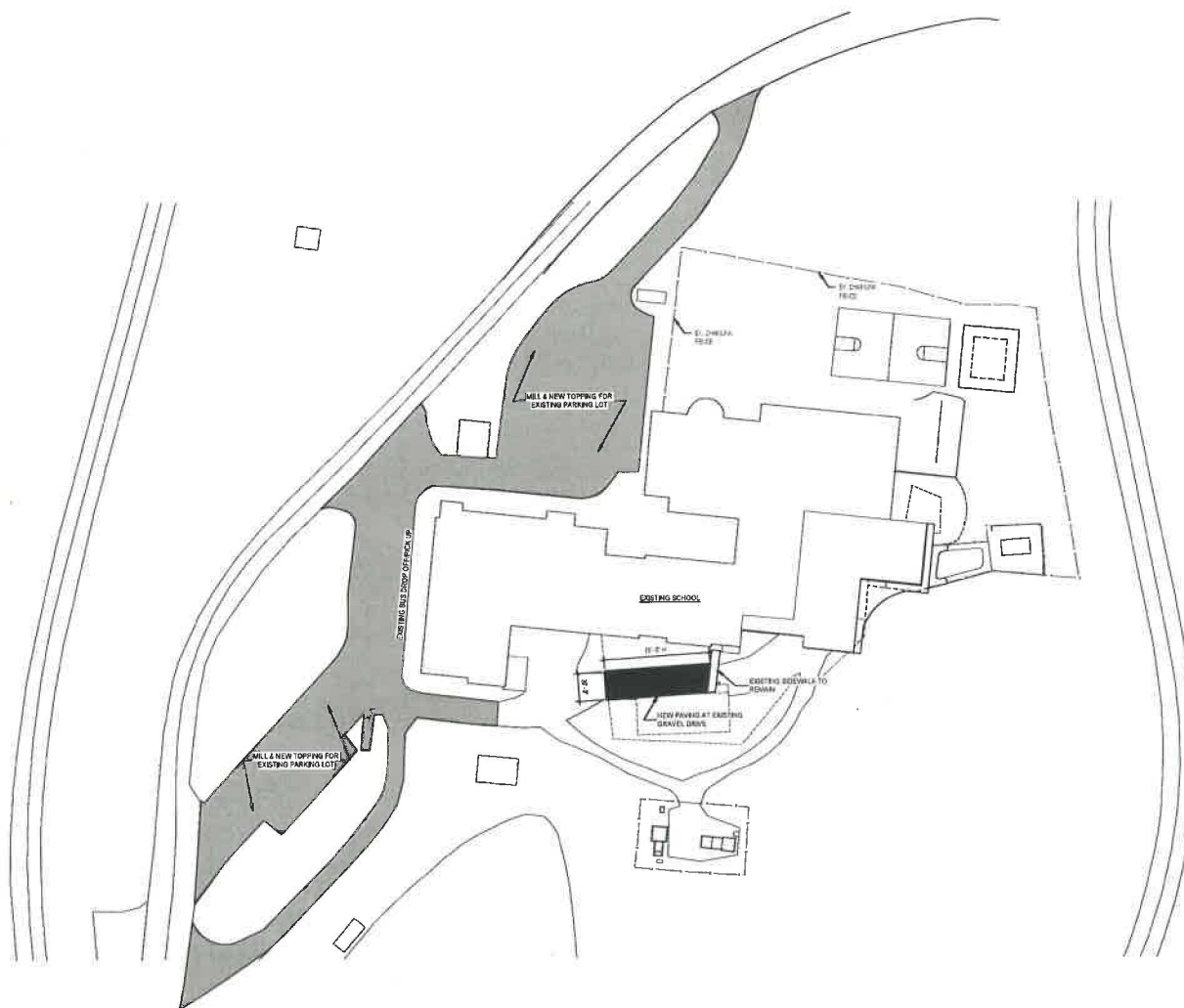
BG# 25-353

ARCHITECTURAL SITE
PLAN

MAGNETIC FLUX

AS100

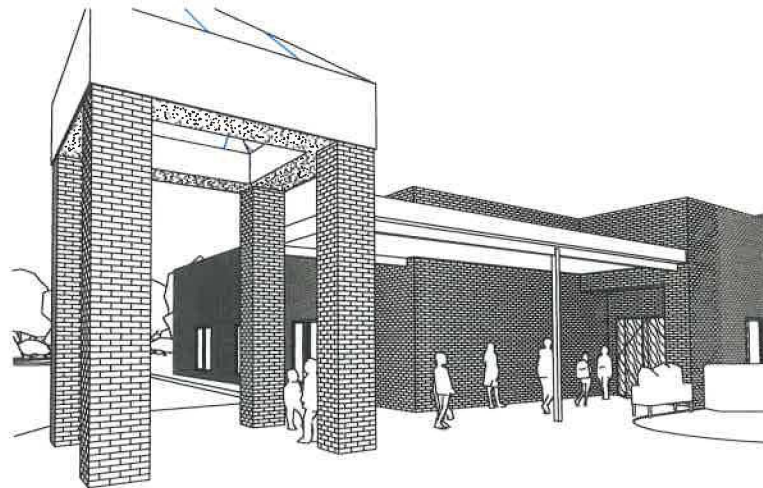
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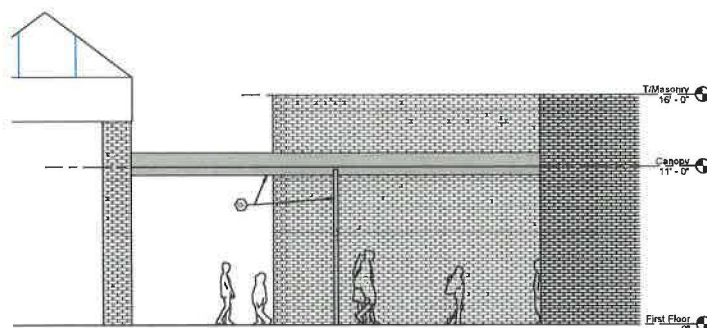
1	ARCHITECTURAL SITE PLAN
AS100	SCALE: 1" = 40'-0"

AS100

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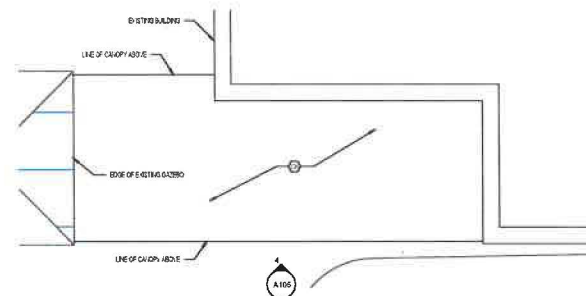


3 View A
A105 SCALE

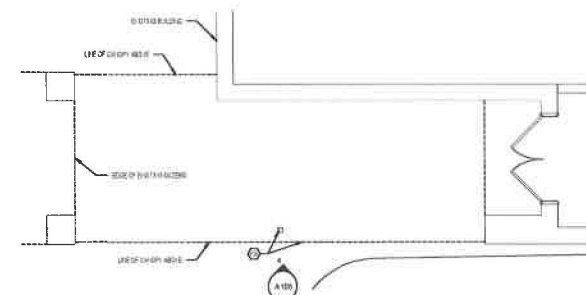


4 CANOPY ELEVATION
A105 SCALE 1/4" = 1'-0"

SHEET KEYNOTES
10X
PREENGINEERED, PREMANUFACTURED POST-SUPPORTED ALUMINUM MILKWAY CANOPY BETWEEN EXISTING GAZEBOS AND LIBRARY ENTRANCE. BASES OF GAZEBOS PROJECT 1/4" ABOVE GROUND (POST-SUPPORTED) WITH FLAT 30/30, 1/4" HIGH SMOOTH FASCEA, E.



2 CANOPY ROOF PLAN
A105 SCALE 1/8" = 1'-0"



1 CANOPY PLAN
A105 SCALE 1/8" = 1'-0"



EmbossDesign.com 805 Monmouth Street,
350.943.1012 Newport, KY 41071

**NOT FOR
CONSTRUCTION**

**PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT**
2845 PINER RIDGE RD, MORNING VIEW, KY
BG# 25-353

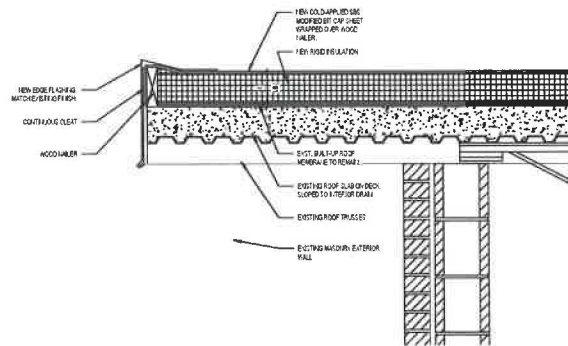
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DESIGN DEV. SET	06/20/25	

ENLARGED FLOOR PLANS

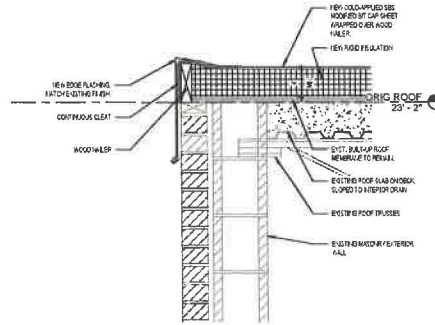
25-011

A105

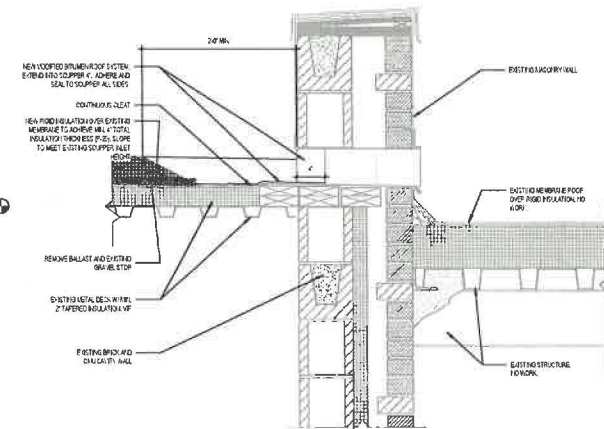
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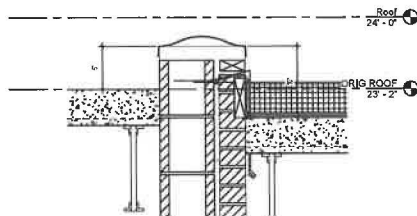
1 ROOF DETAIL
A201 SCALE 1 1/2" = 1'-0"



4 ROOF DETAIL
A201 SCALE 1 1/2" = 1'-0"



5 ROOF DETAIL
A201 SCALE 1 1/2" = 1'-0"



3 ROOF DETAIL
A201 SCALE 1 1/2" = 1'-0"



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B556H31-0012 Newport, KY 41071

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CONSTRUCTION

PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY

BG# 25-363

NO.	DESCRIPTION	DATE
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ROOF SECTIONS

25-011

A201

PLUMBING FIXTURES SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	FAUCET/VALVE MANUFACTURER	FAUCET/VALVE MODEL	CM	HW	SAN	VENT
SPT	3 LEVEL WATER COOLER WITH HOT/COLD FILLER	LAKE	L27145WSK			1/2"	-	1-1/2"	1-1/2"
FD1									
LV1	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD	0336.015	AMERICAN STANDARD	1340.119	1/2"	1/2"	1-1/2"	1-1/2"
LV2	"CHARGE"	AMERICAN STANDARD	0336.015	AMERICAN STANDARD	1340.119	1/2"	1/2"	1-1/2"	1-1/2"
PS1	HOP SINK BASIN	FIAT	PSB2424	CHICAGO FAUCETS	830AA	3/4"	3/4"	3"	1-1/2"
BD1	ROOF DRAIN								
BD2	ROOF DRAIN								
UR1	WALL HUNG URINAL (FIELD HEIGHT)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	-	2"	1-1/2"
UR2	WALL HUNG URINAL (FIELD HEIGHT)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	-	2"	1-1/2"
UR3	WALL HUNG URINAL (ADA)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	-	2"	1-1/2"
WC1	WALL HUNG WATER CLOSET	AMERICAN STANDARD	2257.101	SLOAN	111.5F945-L.S	3/4"	-	4"	2"
WC2	WALL HUNG WATER CLOSET (ADA)	AMERICAN STANDARD	2257.101	SLOAN	111.5F945-L.S	3/4"	-	4"	2"
WC3	WALL HUNG WATER CLOSET (CHILD HEIGHT)	AMERICAN STANDARD	2257.101	SLOAN	111.5F945-L.S	3/4"	-	4"	2"

HAZARDOUS MATERIAL NOTE:

- A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING. ANY WORKER, OCCUPANT, VISITOR, ETC. WHO ENCOUNTERS ANY MATERIAL OF SUSPECTED CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B. CIMA, INC. HAS NO RECORD OF THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CIMA TO VERIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CIMA NOR ANY APPLICABLE AGENCY SHALL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- C. IF THE WORK WHICH IS TO BE PERFORMED INTERFERES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE OWNER AND SO ADVISE IN WRITING IMMEDIATELY.
- D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREES TO WAIVE ANY CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER SUCH ITEM AGAINST CIMA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CIMA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PHASING NOTE:

- A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TASKS AND INTERUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE (HVAC SERVICES, STEAM GENERATION, ETC.) WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING DEMOLITION NOTES:

- A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION TEMPORARY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. RE-LOCATE TEMPORARY REQUIREMENTS.
- B. ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTGAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- C. DURING SPRINKLER SYSTEM OUTGAGES THE CONTRACTORS SHALL PROVIDE THE WATCH OF AREAS WITH OUTGAGES.
- D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL WET WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (E.G. DASH) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- G. COORDINATE DISPOSAL OF ALL FUTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

PLUMBING GENERAL NOTES:

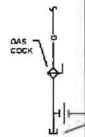
- A. COORDINATE THE LOCATION OF DRAIN, GAS OUTLETS, ETC. WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND REINSTALLED IN PLACE AT THE EXPENSE OF THE CONTRACTOR.
- B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO AVOID DAMAGE TO THE EXISTING RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE REINSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-AL, PLASTER OR GYPSUM BOARD CEILING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPAIR) OF DAMAGED OR ALL CEILING OR TILE AND GIRD SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE NOT FROM THE WORK OF OTHER TRADES. WHETHER EXISTING OR NEW, COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- D. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR TO OWNER'S STANDARD. PATCH WALLS, CEILING, ETC. THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIR SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, CODES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THE CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, STATE, ETC.)
- F. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION IF ITEMS ARE UNCOVERED DURING DEMOLITION THEY FIELD VERIFY THE USE OF THE ITEM AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- G. IF AREA OF CONSTRUCTION AREA POSITION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHOD TO VERIFY THE EXISTING FLOOR PENETRATIONS BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- H. WHERE THE PROPOSED IS SPRAYED ON EXISTING STRUCTURE, ALL EXISTING CONDENSATE, WATER, HYDROGEN, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FLOOR. THE CHIEFS OF FIRE PROOFING WITH NO INTERFERENCE.
- I. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL HAVE PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- J. ALL WORK REQUIRING OVERTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE AND SHALL COMPLY WITH ALL LOCAL SAFETY MEASURES.
- K. ALL PIPING IN ROOMS WITH CEILING SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- L. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- M. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- N. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.)
- O. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS.
- P. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORYLY REPAIRED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SATISFACTORY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- Q. DISPOSITIONS IN SELL, OFFERTS, ETC. FINISH ETC. FOR EQUIPMENT FROM THAT USED AS A BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- T. VALVES OR ANY PLUMBING ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A PARTICULATE IF THIS IS NOT POSSIBLE. THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO A LOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED NOT TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

SYMBOLS & ABBREVIATIONS

A, AIR	MEDICAL AIR	POINT OF CONNECTION
AFR	ABOVE FINISHED FLOOR	LINE OF DEMOLITION
APP	ABOVE FINISHED FLOOR	PIPE ELBOW TURNING UP/TURNING DOWN
C.I.	CAST IRON	PIPE TEE TURNING UP/TURNING DOWN
CO2	CARBON DIOXIDE	MEDICAL AIR
CW	DOMESTIC COLD WATER	COMPRESSED AIR
DN	DOWN	FORCED MAIN
EV	EVACUATION (WASTE ANESTHETIC GAS DISPOSAL)	FIRE PROTECTION LINE
FHV	FIRE HOSE VALVE WITH CABINET	PROPANE GAS
FMH	FREEZE PROOF WALL HYDRANT	SEWAGE WASTE PIPING TO GREASE TRAP
HB	HOSE BIBB	OXYGEN PIPING
HW	DOMESTIC HOT WATER	OVERFLOW STORM PIPING
IAW	IN ACCORDANCE WITH	PRIMARY STORM PIPING
IO	INSIDE DIMENSION	SANITARY WASTE PIPING
IE	INVERT ELEVATION	STORM SEWER PIPING
LPA	LIVE PRESSURE ALARM (MEDICAL GAS AREA ALARM)	VACUUM PIPING
MH	MANHOLE	VENT PIPING
MSA	MULTI-SINGLE ALARM (MEDICAL GAS MASTER ALARM)	EXISTING PIPING (THIN LINE)
NTS	NOT TO SCALE	ABANDONED EXISTING PIPING (THIN LINE)
NC	NOT IN CONTRACT	DOMESTIC COLD WATER PIPING
NO	NORMALLY OPEN	DOMESTIC HOT WATER SUPPLY
NO	NORMALLY CLOSED	DOMESTIC RECIRCULATING HOT WATER
O, OK	OXYGEN	CLEANOUT IN CEILING SPACE
OD	OUTSIDE DIMENSION	FLOOR CLEANOUT
OFCD	OWNER FURNISHED, CONTRACTOR INSTALLED	EXTERIOR CLEANOUT
OFCD	OWNER FURNISHED, OWNER INSTALLED	BALANCING VALVE
OFCD	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	BALL VALVE
OR	OPEN RECEPTACLE	SAFETY RELIEF VALVE
ORL	OVERFLOW ROOF LEADER	SAFETY RELIEF VALVE
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)	OSAY (GATE) VALVE
PSI	POUNDS PER SQUARE INCH	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
RHW	DOMESTIC RECIRCULATING HOT WATER	STRAINER
RL	ROOF LEADER	CHECK VALVE
SCW	SOFT DOMESTIC COLD WATER	DOUBLE CHECK VALVE ASSEMBLY
SB	SANITARY RISER	PIPING UNION
TR	THRUST BLOCK	FLOW SWITCH
TE	TOP ELEVATION	PRESSURE SWITCH
TP	TRAP PRIMER	TAMPER SWITCH
TYP	TYPICAL	THERMOMETER
UN	UNLESS OTHERWISE NOTED	VACUUM BREAKER
V, VAC	VACUUM	LIMITED AREA SPRINKLER HEAD
VTR	VENT THRU ROOF	PETE'S PLUG
		FLOOR DRAIN DESIGNATOR
		ROOF DRAIN DESIGNATOR
		PLUMBING FIXTURE DESIGNATOR
		TAGGED NOTE DESIGNATOR
		REVISION DESIGNATOR
		TEMPERATURE SENSOR
		HOSE BIB

GAS PIPING DETAIL

NOT TO SCALE



Emboss Design, Inc. 908 Monmouth Street, New York, NY 10011

NOT FOR CONSTRUCTION

PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY

BG# 25-363

NO.	DESCRIPTION	DATE
	DESIGN DEV. SET	05/20/18

PLUMBING LEGEND

25-011

P000

THIS DOCUMENT, AND THE EMBASSY AND LOGOS ARE NOT TO BE USED IN ANY MANNER THAT IMPLIES ENDORSEMENT OR RECOMMENDATION BY THE PROPERTY OF KENTON COUNTY SCHOOLS. ANY REUSE OF THIS DOCUMENT FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF EMBASSY DESIGN, INC. IS PROHIBITED.

GENERAL NOTES - MECHANICAL

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GENERAL AND SPECIAL CONDITIONS, "GENERAL CONDITIONS - MECHANICAL" OF THE PROJECT SPECIFICATIONS AND TO ALL OTHER CONTRACT DOCUMENTS AS THEY APPLY TO THIS BRANCH OF WORK. ATTENTION IS ALSO DIRECTED TO ALL OTHER SECTIONS OF THE CONTRACT DOCUMENTS WHICH AFFECT THIS WORK AND WHICH ARE HEREBY MADE A PART OF THE WORK SPECIFIED.
- ALL MANUFACTURERS, SUPPLIERS, FABRICATORS, CONTRACTORS, ETC. SUBMITTING PROPOSALS FOR ANY PART OF THE WORK, SERVICES, MATERIALS OR EQUIPMENT TO BE USED OR APPLIED TO THIS PROJECT ARE HEREBY DIRECTED TO FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION AND FINAL DETERMINATION PRIOR TO THE BID.
- THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, TRANSPORTATION, SUPPLIES, MATERIALS, APPURTENANCES AND SERVICES NECESSARY FOR THE SATISFACTORY INSTALLATION OF THE COMPLETE AND OPERATING SYSTEMS INDICATED OR SPECIFIED IN THE CONTRACT DOCUMENTS.
- ANY MATERIALS, LABOR, EQUIPMENT OR SERVICES NOT MENTIONED SPECIFICALLY HEREIN WHICH MAY BE NECESSARY TO COMPLETE ANY PART OF THE SYSTEMS IN A SUBSTANTIAL MANNER, IN COMPLIANCE WITH THE REQUIREMENTS STATED, IMPLIED OR INTENDED IN THE PLANS AND SPECIFICATIONS, SHALL BE INCLUDED IN THE BID AS PART OF THE CONTRACT.
- THE ENGINEER DOES NOT INTEND THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS. ANY SHEET NUMBERING OR SPECIFICATION NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY FOR THE ENGINEER'S CONVENIENCE AND IS NOT INTENDED TO DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. INFORMATION REGARDING INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS MAY BE OBTAINED, DESCRIBED AND INDICATED AT DIFFERENT LOCATIONS THROUGHOUT THE CONTRACT DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF CONTRACT DOCUMENTS WHEN PREPARING BIDS, PRICES AND QUOTATIONS. UNLESS STATED OTHERWISE, THE SUBDIVISION AND ASSIGNMENT OF WORK UNDER THE VARIOUS SECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR HOLDING THE PRIME CONTRACT.
- IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO CALL FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL COMPONENTS, ACCESSORIES, FINISH WORK, ETC. NECESSARY FOR TROUBLE FREE OPERATION, TESTED AND READY FOR OPERATION. ANYTHING THAT MAY BE REQUIRED, IMPLIED OR INFERRED BY THE CONTRACT DOCUMENTS SHALL BE PROVIDED AND INCLUDED AS PART OF THE BID.
- ALL CONTRACTORS AND VENDORS PROVIDING A BID FOR THIS PROJECT SHALL REVIEW THE PLANS AND SPECIFICATIONS AND DETERMINE ANY MODIFICATIONS AND/OR ADJUSTMENTS NECESSARY RELATIVE TO THE PROPOSED EQUIPMENT AND MATERIALS WITH SPECIFIC MANUFACTURER'S INSTALLATION REQUIREMENTS. INCLUDE IN THE BID ANY NECESSARY METHODS, FEATURES, OPTIONS, ACCESSORIES, ETC. NECESSARY TO INSTALL THE PROPOSED EQUIPMENT AND MATERIALS. REGARDLESS OF WHETHER USED AS BASIS OF DESIGN OR BIDDING OFFERS AS A SUBSTANTIAL BASIS OF DESIGN, THE INTERPRETATION OF THE MANUFACTURER'S INSTALLATION REQUIREMENTS, WHETHER SPECIFICALLY DETAILED OR NOT, WITHIN THE PLANS AND SPECIFICATIONS.
- THE BIDDER/PROPOSER SHALL COMPLETELY REVIEW THE CONTRACT DOCUMENTS. ANY INTERPRETATION OR TO DESIGN INTENT OR SCOPE SHALL BE PROVIDED BY THE ENGINEER. SHOULD ANY INTERPRETATION BE REQUIRED, THE BIDDER/PROPOSER SHALL REQUEST A CLARIFICATION NOT LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE BID SO THAT THE CONDITION MAY BE CLARIFIED BY ADDENDUM. IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY, THE INTERPRETATION OF THE ENGINEER SHALL BE FINAL.
- THE CONTRACTOR SHALL PROVIDE LAIDOUT CONFIGURATION OF EQUIPMENT LOCATIONS TO VERIFY THAT ALL COMPONENTS WILL FIT IN THE PROPOSED SPACE AND HAVE ADEQUATE CLEARANCES FOR SERVICES. COORDINATE THE LOCATION OF DRAINS, CONNECTIONS, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- EQUIPMENT AND RISER SUBSTITUTIONS OR SUBSTITUTIONS SHALL COMPLY WITH "GENERAL PROVISIONS - MECHANICAL, PART 6." ANY VENDOR WISHING TO OBTAIN AN EQUIPMENT SUBSTITUTION SHALL REQUEST A CLARIFICATION NOT LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE PROPOSAL, SO THAT IT MAY BE CONSIDERED AND POTENTIALLY INCLUDED BY ADDENDUM. REQUESTS MADE AFTER THIS PERIOD WILL BE REJECTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE REGARDLESS IF CONTRACTOR IS SIGNATORY OF CODES, RULES, REGULATIONS, LAWS, ETC. THE CONTRACTOR SHALL ALSO BE VERGED IN ALL CODES, RULES, REGULATIONS, LAWS, ETC. PERTINENT TO THEIR PART OF THE WORK PRIOR TO SUBMISSION OF THE PROPOSAL.
- ALL WARRANTIES SHALL BEGIN STARTING AT THE PROJECT'S SUBSTANTIAL COMPLETION DATE. ALL EQUIPMENT, MATERIAL AND LABOR WARRANTIES SHALL BE FURNISHED BY THE EQUIPMENT SUPPLIER/RENDER.
- WHenever work penetrates roofing, it shall be done in a manner that will not damage or void the roofing guarantee or warranty in any way. Coordinate all such work with the roofing installer.
- DUCTWORK, PIPING AND EQUIPMENT SHALL BE KEPT CLEAN AT ALL TIMES. DUCTWORK STORED ON THE JOB SITE SHALL BE PLACED A MINIMUM OF 4" ABOVE THE FLOOR AND BE COMPLETELY COVERED IN PLASTIC. INSTALLED DUCTWORK SHALL BE PROTECTED WITH PLASTIC. DO NOT INSTALL THE DUCTWORK OR INSULATION (PIPE OR DUCT) IF THE BUILDING IS NOT "DRIED-IN." IF THIS IS REQUIRED, THE ENTIRE LENGTHS SHALL BE COVERED IN PLASTIC TO PROTECT IT. THE ENGINEER/OWNER SHALL INSPECT THAT THESE PROCEDURES ARE FOLLOWED. IF DEEMED UNSATISFACTORY, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN THE DUCT SYSTEM BY UTILIZING A NOAA CERTIFIED CONTRACTOR.
- THE PERMANENT SYSTEMS, WHEN INSTALLED, MAY BE USED FOR TEMPORARY SERVICES WITH THE CONSENT OF THE ENGINEER AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - TEMPORARY USE OF EQUIPMENT."
- THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL INCLUDE IN THE BID TO PROVIDE EQUIPMENT AND CONTROLS STARTUP AND VERIFICATION FOR ALL MECHANICAL SYSTEMS SPECIFIED AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - EQUIPMENT/CONTROLS STARTUP & VERIFICATION."
- THE CONTRACTOR SHALL DETERMINE FROM THE CONTRACT DOCUMENTS, THE DATE OF COMPLETION FOR THE PROJECT AND INSURE THAT EQUIPMENT DELIVERY SCHEDULES CAN BE MET SO AS TO ALLOW THIS COMPLETION TO BE MET.
- THROUGH COORDINATION WITH OTHER CONTRACTORS, VENDORS, AND SUPPLIERS ASSOCIATED WITH THIS PROJECT, THIS CONTRACTOR SHALL INSURE, WORK FUNCTIONAL, TESTED, INSPECTED AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OF CHANGE ORDERS WILL BE REJECTED.
- PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (E.g. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRE SIZES, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES.
- ALL OFFSETS, TURNS, FITTINGS, FROM DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- DO NOT SCALE FROM DRAWINGS. PRINTING DISTORTIONS SCALE. WORK SHALL BE Laid OUT FROM CONTRACTOR GENERATED DIMENSIONED DRAWINGS.
- THE CONTRACTOR SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DOES NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LOCATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SUCH DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF THE BID.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK, ALL CUTTING AND PATCHING SHALL MATCH ADJACENT AREAS AND PERFORMED BY SKILLED WORKERS OF THE TRADE. REFER TO SPECIFICATION SECTION 05100 FOR CUTTING, PATCHING, REPAIRING, ETC., AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE AWAY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT MOUNTS FROM OTHER TRADES' EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- PRIOR TO PURCHASE OF SUBCONTRACTOR SHALL COORDINATE INSTALLATION WITH ACTUAL CONDITIONS AND INSTALL ACCORDINGLY.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED AT NO ADDITIONAL COST UNDER THE ITEM WHETHER SHOWN OR NOT ON THE PLANS TO ALLOW ACCESS AND ADJUSTMENT.
- THE CONTRACTOR SHALL VISIT THE SITE FOR EXACT LOCATIONS OF ALL WALL AND CEILING DEVICES. THIS SHALL INCLUDE PUMPING FIXTURES, CEILING GRILLES AND DIFFUSERS, ETC.
- CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS AT ALL TIMES DURING CONSTRUCTION.

GENERAL NOTES - DEMOLITION

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLAN FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. REMOVE EXISTING MATERIALS, INCLUDING CEILING, ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. RE-FLATED VERIFIED EXACT REQUIREMENTS.
- ALL OUTLETS SHALL BE SCHEDULED THROUGHOUT THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTLET SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- DURING SPINERLESS SYSTEM OUTAGES THE CONTRACTOR SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
- ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL. (D-CALL) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- COORDINATE DISPOSAL OF ALL FEATURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

ABBREVIATIONS

ADJ	ADJUSTABLE
AFR	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AIR	AIR PRESSURE DROP
APD	AIR FURNISHED
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSE POWER
BTU	BRITISH THERMAL UNIT
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
ETR	EXITING TO REMAIN
EWI	ENTERING WATER TEMPERATURE
FA	FREE AREA
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FTC	FIRE PROTECTION CONTRACTOR
FSM	FEET PER MINUTE
FS2	FEET PER SECOND
FSO	FIRE SMOKE DAMPER
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRAINS
HD	HEAD
HP	H-CORNER/ROW, (EAT PUMP)
ID	I-DENTIFICATION, (HOLE DIAMETER, HOLE DIMENSION)
kW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MHW	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MF	MANUFACTURER
MOOP	HIGHLY OVERCURRENT PROTECTION [AMPS]
NC	NOISE CRITERIA OR NORMALLY CLOSED

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DE (-AMETER, -INCHES)
OKC	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOW	OWNER FURNISHED, OWNER INSTALLED
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE [STEAM, WATER, GAS]
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RH	RELATIVE HUMIDITY [%]
REV	REVOLUTIONS PER MINUTE
SD	SHOCK DAMPER
SP	STATIC PRESSURE
SQ FT	SQUARE FEET OR FOOT
TSP	TOTAL STATIC PRESSURE
TRP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WPD	WATER PRESSURE DROP
AP	DIFFERENTIAL PRESSURE
AT	TEMPERATURE DIFFERENCE
C	CENTERLINE

GENERAL SYMBOLS

	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

PHASING NOTES

- THIS PROJECT INTERFERES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIES AND INTERFERENCES OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC. WILL BE AFFECTED AND RELOCATED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO THE STARTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY SCHEDULING, PROBLEM TIME, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

HAZARDOUS MATERIALS NOTES

- THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS, AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL IMMEDIATELY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES INTO OR IN CONTACT WITH ANY SUCH MATERIAL OR REMOVED THEREFROM UNTIL ITS CONTENT CAN BE ACCURATELY DETERMINED.
- CH2A, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL THEREIN. NO ATTEMPT HAS BEEN MADE BY CH2A TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CH2A NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- IF THE WORK WHICH IS TO BE PERFORMED INTERFERES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
- THE CONTRACTOR BY ACCEPTANCE OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREES TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR, DESIGNER, BREAKER OF, OR ANY OTHER SUCH TERM AGAINST CH2A, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CH2A, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIM WHICH MAY BE BROUGHT BY ANY SUBCONTRACTOR, SUPPLIER OR ANY OTHER THIRD PARTY.
- THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

HVAC LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR DIFFUSER
	TRANSFER AIR GRILLE W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER, LOUVER)
	CHILLED WATER SUPPLY/RETURN
	CONDENSER WATER SUPPLY/RETURN
	DUAL TEMP. WATER SUPPLY/RETURN
	GEOTHERMAL WATER SUPPLY/RETURN
	HIGH PRESSURE STEAM CONDENSATE
	HIGH PRESSURE STEAM (m) DENOTES PRESSURE
	HEAT PUMP WATER SUPPLY/RETURN
	HEAT RECOVERY SUPPLY/RETURN PIPING
	HEATING WATER SUPPLY/RETURN
	LOW PRESSURE STEAM (m) DENOTES PRESSURE
	MEDIUM PRESSURE STEAM RETURN
	MEDIUM PRESSURE STEAM (m) DENOTES PRESSURE
	STEAM VENT PIPING
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM
	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	DUCT TO BE AMENDED IN PLACE - (XXX) DENOTES SYSTEM
	FILTERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	TEMPERATURE & CARBON DIOXIDE SENSOR
	MANUAL BALANCING/VOLUME DAMPER
	MOTORIZED DAMPER

MECHANICAL PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE CONNECTION ON TOP
	PIPE TEE CONNECTION ON BOTTOM
	PIPE CAP
	CONDENSATE DRAIN
	CHILLED WATER SUPPLY/RETURN
	CONDENSER WATER SUPPLY/RETURN
	DUAL TEMP. WATER SUPPLY/RETURN
	GEOTHERMAL WATER SUPPLY/RETURN
	HIGH PRESSURE STEAM CONDENSATE
	HIGH PRESSURE STEAM (m) DENOTES PRESSURE
	HEAT PUMP WATER SUPPLY/RETURN
	HEAT RECOVERY SUPPLY/RETURN PIPING
	HEATING WATER SUPPLY/RETURN
	LOW PRESSURE STEAM (m) DENOTES PRESSURE
	MEDIUM PRESSURE STEAM RETURN
	MEDIUM PRESSURE STEAM (m) DENOTES PRESSURE
	STEAM VENT PIPING
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM



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Newport, KY 41071

NOT FOR
CONSTRUCTION

PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY

BG# 25-953

NO. DESCRIPTION DATE

DESIGN DEV. SET 06/20/25

MECHANICAL LEGEND

25-011

M000

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

ELECTRICAL GENERAL NOTES:

- A. EACH CONTRACTOR, TRADESMAN, SUPPLIER AND MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, POWER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH EACH TRADESMAN.
- B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND UNDERSTAND ALL SUCH REQUIREMENTS.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES, INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72 (INTERNATIONAL BUILDING CODES), ETC.
- D. CONTRACTOR SHALL FOLLOW ALL BUILDING RESTRICTIONS, INCLUDING BUT NOT LIMITED TO, IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT JURISDICTION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E. ALL OTHERS, TURN, FITTINGS, TIE, DETAIL, ETC. THAT MAY NOT BE INDICATED BY PLAN SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH CONTRACTOR'S DISCRETION.
- F. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLISION OF CONSTRUCTION MATERIAL IF IN DOUBT, CONTACT THE ENGINEER.
- G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- H. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT IMMEDIATELY IN WRITING.
- I. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEER AND MUST BE SUBMITTED IN WRITING NO LATER THAN FIVE DAYS PRIOR TO THE BID DATE.
- J. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, (SEA, ETC.)
- K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
- L. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- M. DO NOT ACCESS PANELS, GROUND BARS OR OTHER PLUMBING COMPONENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DAMEN OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- N. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETELY ACCURATE AND UNAMBIGUOUS SET OF DRAWINGS FOR THE CONTRACTOR TO CONSTRUCT.
- O. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THESE STANDARDS SHALL BE REJECTED AND REWORKED AT THE CONTRACTOR'S EXPENSE.
- P. ALL WORK MATERIALS, EQUIPMENT, ETC. SHALL BE OF THE QUALITY AND QUANTITY FULLY CALIBRATED FROM THE DATE OF SUBMITTAL. CONSTRUCTION AS DOCUMENTED BY THE ENGINEER. LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
- Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMERED AND FINISHED SO AS TO COMPLEMENT EXISTING FINISHES. UNLESS OTHERWISE NOTED, COORDINATE WORK AND COLORS WITH ARCHITECT.
- R. WHERE PERMANENT ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SURE PENETRATION IN A WAY THAT WILL NOT VOID OR UNDERMINE THE ROOFING WARRANTY OR FINISHES. IN ANYWAY, COORDINATE ALL PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
- S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
- T. COORDINATE ALL ELECTRICAL, STRUCTURAL, PLUMBING, MECHANICAL AND CASWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
- U. CEILING MOUNTED DEVICES SHALL BE CENTERED IN 2'x2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 24" TILE AND ON CENTERLINE ON A QUARTER POINT ON 4' DIMENSION.
- V. ANY VIBRATING NOISE OR NOISE FROM EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROPRIATE MANNER, HOOKS OR STRUCTURALLY DAMAGING. INSTALLATION SHALL BE SATISFACTORY TO ALL APPLICABLE STANDARDS AND CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- W. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE. PROVIDE A LABEL AND INSTRUCTIONS TO THE ENGINEER FOR CATALOGING AND CATALOGING ANY DEVIATIONS IN PHASE, CAPACITIES, RT, PHASE, ETC. FOR EQUIPMENT FROM THAT PRIOR SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- X. THE CONTRACT MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUBS, ETC. INSTALLERS, ETC. FOR OR UNLAWFUL WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- Y. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- Z. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- AA. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- BB. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- CC. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- DD. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- EE. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- FF. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- GG. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- HH. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- II. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- JJ. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- KK. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- LL. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- MM. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- NN. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- OO. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- PP. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- QQ. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- RR. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- SS. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- TT. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- UU. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- VV. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- WW. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- XX. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- YY. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.
- ZZ. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER. WHERE HEIGHTS ARE AFFECTED BY OTHER BUILDING SYSTEMS, CONTRACT THE ENGINEER.

DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES	SYMBOL
1. SWITCHES			1. SWITCHES		
1.1. LIGHT SWITCH - GENERAL PURPOSE	4"		1.1. LIGHT SWITCH - GENERAL PURPOSE	4"	
1.2. DIMMER SWITCH	4"		1.2. DIMMER SWITCH	4"	
1.3. THREE-WAY SWITCH	4"		1.3. THREE-WAY SWITCH	4"	
1.4. REVERSE SWITCH	4"		1.4. REVERSE SWITCH	4"	
1.5. SECURITY/LOCKOUT SENSITIVE SWITCH	4"		1.5. SECURITY/LOCKOUT SENSITIVE SWITCH	4"	
1.6. LOW VOLTAGE SWITCH	4"		1.6. LOW VOLTAGE SWITCH	4"	
1.7. NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED		1.7. NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	
1.8. OCCUPANCY OR VACANCY SENSOR - CEILING MOUNT	AS NOTED		1.8. OCCUPANCY OR VACANCY SENSOR - CEILING MOUNT	AS NOTED	
1.9. PHOTO-CELLS AS NOTED	AS NOTED		1.9. PHOTO-CELLS AS NOTED	AS NOTED	
1.10. SIMPLE RECEPTACLE	14"		1.10. SIMPLE RECEPTACLE	14"	
1.11. DUPLEX RECEPTACLE - SAFETY TYPE	14"		1.11. DUPLEX RECEPTACLE - SAFETY TYPE	14"	
1.12. DUPLEX RECEPTACLE	14"		1.12. DUPLEX RECEPTACLE	14"	
1.13. SLAM PROTECT SWITCH - 2" ABOVE FINISHED FLOOR OR AT MINIMUM 6" ABOVE FINISHED FLOOR	14"		1.13. SLAM PROTECT SWITCH - 2" ABOVE FINISHED FLOOR OR AT MINIMUM 6" ABOVE FINISHED FLOOR	14"	
1.14. FUSE CENTER BAR - RECESSED INTO GROUND FLOOR PROTECTION ONLY	14"		1.14. FUSE CENTER BAR - RECESSED INTO GROUND FLOOR PROTECTION ONLY	14"	
1.15. RECESSED INTO GROUND FLOOR PROTECTION ONLY	14"		1.15. RECESSED INTO GROUND FLOOR PROTECTION ONLY	14"	
1.16. FLEXIBLE CONDUIT	4"		1.16. FLEXIBLE CONDUIT	4"	
1.17. FLEXIBLE CONDUIT OR FISH MOUNT	4"		1.17. FLEXIBLE CONDUIT OR FISH MOUNT	4"	
1.18. HANGING ROCKET - EMERGENCY	4"		1.18. HANGING ROCKET - EMERGENCY	4"	
1.19. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED		1.19. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED	
1.20. TAGGED MOUNT	4"		1.20. TAGGED MOUNT	4"	
1.21. REVISION TAG	4"		1.21. REVISION TAG	4"	
1.22. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED		1.22. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED	
1.23. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED		1.23. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED	
1.24. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED		1.24. EQUIPMENT TAG - REFER TO EQUIPMENT SCHEDULE	AS NOTED	
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DESCRIPTION	NOTES	SYMBOL	DESCRIPTION	NOTES	SYMBOL
1. LIGHTING			1. LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, LUMINAIRE HEIGHTS, ETC.			REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, LUMINAIRE HEIGHTS, ETC.		
2. SURFACE OR SUSPENDED CEILING FIXTURE (FLASH MOUNTS RECESSED)			2. SURFACE OR SUSPENDED CEILING FIXTURE (FLASH MOUNTS RECESSED)		
POLE MOUNTED AREA LIGHT			POLE MOUNTED AREA LIGHT		
WALL MOUNTED FIXTURE			WALL MOUNTED FIXTURE		
FLOODLIGHT			FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT)			EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE			STRIP FIXTURE		
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THIS DOCUMENT, AND THE BIDDING AND DESIGN INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF PROFESSIONAL SERVICE, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF PROFESSIONAL SERVICE, INC. ANY VIOLATION OF THIS NOTICE SHALL BE CONSIDERED A BREACH OF CONTRACT AND SUBJECT TO LEGAL ACTION.

GENERAL REQUIREMENTS:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONS, STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES. THEY SHALL ALSO IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ALERT DESIGNER TO ERRORS OR OMISSIONS.
- CONTRACTOR SHALL UTILIZE THESE DRAWINGS ALONG WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT, AND REQUIREMENT OF THE PROJECT. WORK DETAILED ON THE DRAWINGS BUT NOT ENUMERATED IN THE SPECIFICATIONS, AND WORK DESCRIBED IN THE SPECIFICATIONS BUT NOT DETAILED ON THE DRAWINGS SHALL BE INTERPRETED AS THOUGH WORK WERE FULLY DESCRIBED IN BOTH DOCUMENT SETS. THE HIGHER QUALITY, FIRMER QUALITY, MORE LABOR INTENSIVE AND OVERALL MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY UNLESS OTHERWISE NOTED PRIOR TO BID.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. ANY DISCREPANCY DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY ANY SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH, OR CAUSED BY, THEIR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHES IN THE INTERIOR OR EXTERIOR OF THE FACILITY. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER AND BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER.
- FOR MULTIPHASED PROJECTS, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITY SERVICES AND BUILDING SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AS NECESSARY TO ALLOW FOR OPERATION ACCEPTABLE TO THE OWNER DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY WORKING AND NECESSARY, PROVIDE DUST PROTECTION FOR ANY EXISTING EQUIPMENT AFFECTED BY THE CONTRACTOR'S WORK AND FOR ANY NEW WORK INSTALLED WHICH MAY BE AFFECTED BY CONSTRUCTION DUST.

GENERAL ROUGH-IN AND CABLING PATHWAY REQUIREMENTS:

- PROVIDE PATHWAYS FOR ALL TELECOMMUNICATIONS, AUDIO/VIDEO, SAFETY AND SECURITY SYSTEMS CABLING. REFER TO SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
- ROUGH-IN PATHWAYS SHALL BE REVIEWED AND COORDINATED PRIOR TO INSTALLATION.
- WHERE CONDUITS ARE SPECIFIED "TAC" TO ABOVE ACCESSIBLE CEILING, CONDUITS SHALL BE STUBBED INTO AN ACCESSIBLE CEILING CAVITY.
- WHERE CONDUITS ARE SPECIFIED "TAC" TO ABOVE ACCESSIBLE CEILING, CONDUITS SHALL BE STUBBED INTO AN ACCESSIBLE CEILING CAVITY WITH THE NEAREST CORNER FEATURING AN ACCESSIBLE CEILING CAVITY.
- CONDUIT INSTALLATION SHALL INSTALL FULL OTHER IN ALL CONDUITS IMMEDIATELY AFTER INSTALLATION.
- CONDUIT INSTALLER SHALL LABEL CONDUITS PER THE DEVICES WHICH THEY ARE INTENDED TO SERVE WITH PERMANENT MARKER AT CONDUIT TERMINATION.
- WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, PROVIDE FULL BODIES SHOWN ON THE DRAWINGS PLUS ADDITIONAL FULL BODIES FOR EVERY 90 DEGREE OF CONDUIT BEND AND 100 FEET OF CONDUIT.
- PROVIDE COVER PLATES FOR JUNCTION AND FULL BODIES. COORDINATE MATERIAL AND FINISH OF BLANK PLATES TO MATCH SURROUNDING PLATES.
- WHERE A MOUNTING HEIGHT MEASUREMENT IS APPLIED TO A ROUGH-IN, THE MEASUREMENT SHALL BE REFERENCED TO THE CENTER OF THE ROUGH-IN DEVICE.
- PATHWAYS SHALL BE INSTALLED IN A CONCEALED MANNER. EXPOSED CONDUIT SHALL NOT BE PERMITTED IN FINISHED AREAS.
- PROVIDE CODE COMPLIANT FRESTOPPING FOR PATHWAYS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILING.
- PROVIDE CONDUITS WITH NYLON END-BUSHINGS, NOT ALL BURNING AT THE END OF EACH CONDUIT AND EACH ADDITIONAL LOCATION WHERE CABLES COULD BE DAMAGED WHEN PULLING THEM THROUGH THE CONDUIT.
- DEVICES TO BE INSTALLED AT COUNTER HEIGHT, CASEWORK OR FURNITURE SHALL BE CLOSELY COORDINATED WITH THE FIELD WITH ARCHITECT, CASEWORK AND FURNITURE VENDORS PRIOR TO ROUGH-IN.
- WHERE FLOORS, CASEWORK, POWER POLES AND OTHER DUAL SERVICE PATHWAYS ARE INDICATED ON THE DRAWINGS, PATHWAY DEVICES SHALL BE PROVIDED BY THE DESIGNER TO CONTRACTOR, SEE ELECTRIC DRAWINGS FOR REQUIREMENTS AND ADDITIONAL INFORMATION.
- MANY COMMUNICATIONS DEVICES ARE INTENDED TO HAVE ADJACENT POWER OR SIGNAL RECEPTACLES (MULTI-SERVICE) TO SERVE THE SAME EQUIPMENT. COORDINATE THE LOCATION OF SEPARATE DEVICES SO THAT THEY ARE LOCATED ADJACENT AND AT THE SAME ELEVATION. FACE PLATES SHALL BE COORDINATED TO THE SAME TYPE AND COLOR.
- LADDER RACK AND OTHER COMMUNICATIONS TECHNIQUE CABLING PATHWAYS DEPICTED ON THE ENLARGED FLOOR PLANS SHALL BE PROVIDED AS INDICATED. ADDITIONAL PRODUCTS NECESSARY FOR PROFESSIONAL FIRE MANAGEMENT WITHIN THE MAIN EQUIPMENT ROOM (EPR - HRP) AND ALL TELECOMMUNICATIONS ROOMS SHALL BE PROVIDED AS NECESSARY.
- WHERE CABLE TRAY IS DEPICTED ON THE FLOOR PLAN, IT SHALL BE PROVIDED AS INDICATED AND SIZED APPROPRIATELY FOR THE CABLING QUANTITY AND SIZE TO BE CONVEYED. PROVIDE ALL MOUNTING HARDWARE AND TRANSITIONS REQUIRED TO SECURE TO THE WALLS AND/OR CEILING. COORDINATE WITH ALL TRADES TO ENSURE APPROPRIATE SPACE HAS BEEN ALLOCATED FOR THE CABLE TRAY AND VENTILATION.
- PROVIDE A MINIMUM OF ONE (1) INCH DIAMETER THROUGH-THE-WALL CONDUIT BUEVES FOR USE AS LOW VOLTAGE CABLE PATHWAYS INTO EACH SPACE CONTAINING LOW VOLTAGE DEVICES. ROUTE CONDUITS FROM ABOVE ACCESSIBLE CEILING TO THE NEAREST HALLWAY/CORRIDOR FEATURING AN ACCESSIBLE CEILING CAVITY.
- IN ALL CASES WHERE CABLE IS NOT INSTALLED IN CONDUIT, IT SHALL BE SUPPORTED BY CABLE TRAY, HOOKS OR OTHER APPROVED PATHWAY SUPPORTS. IT SHALL NEVER BE SUPPORTED BY BUILDING STRUCTURE OR SUSPENDED CEILING INFRASTRUCTURE.
- WHERE CABLES ARE NOT INSTALLED WITHIN CONDUITS, IT SHALL BE INSTALLED IN A CONCEALED MANNER WHEN TRAVELING THROUGH OPEN CEILING TYPE SPACES.
- MAJOR CONDUIT PATHWAYS 3" DIAMETER AND GREATER, HAVE BEEN DEPICTED ON THE FLOOR PLANS AND SECTION DETAILS. HOWEVER, ADDITIONAL CONDUIT PATHWAYS AND SLEEVES SHALL BE REQUIRED FOR CABLES TO PASS THROUGH WALLS, FLOORS, EXPOSED OPEN CEILING TYPE SPACES AND TO COMPLETE PROPER INSTALLATION. FIELD COORDINATE AND PROVIDE AS REQUIRED.

GENERAL CABLING REQUIREMENTS:

- CABLE RATING REQUIREMENTS
 - A. ALL CABLE SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED PER NEC REQUIREMENTS.
 - B. ANY CABLE INSTALLED WITHIN A RETURN AIR PLenum SHALL BE PLenum RATED (CMP). ANY CABLE DISCOVERED WITHIN A RETURN AIR PLenum THAT IS NOT RATED FOR SUCH SHALL BE REMOVED AND REINSTALLED WITH THE PROPER RATING AT THE CONTRACTOR'S EXPENSE.
- CABLES INSTALLED WITHIN UNDERGROUND CONDUITS AND/OR DIRECTLY BURIED IN-GROUND SHALL BE RATED FOR SUCH.
- CABLES GAUGE SHALL BE SIZED APPROPRIATELY TO OPERATE WITHIN THE VOLTAGE AND CURRENT RANGES PER NEC AND MANUFACTURER'S REQUIREMENTS.
- ALL INSTALLED CABLES SHALL BE CONTINUOUS AND WITHOUT SPLICES, UNLESS OTHERWISE NOTED.
- COLORS OF CABLES AND TERMINATIONS USED FOR ALL TECHNOLOGY WORK SHALL CONFORM TO THE DESIGNER'S AND OWNER'S REQUIREMENTS PRIOR TO PROCUREMENT AND INSTALLATION.

ABBREVIATIONS	
UNLESS OTHERWISE NOTED	CON
OWNER FURNISHED CONTRACTION INSTALLED	OFICI
OWNER FURNISHED OWNER INSTALLED	OFIOI
CONTRACTOR FURNISHED CONTRACTION INSTALLED	CFICI
CONTRACTOR FURNISHED OWNER INSTALLED	CFIOI
ABOVE FINISHED FLOOR	AFF
ABOVE FINISHED GRADE	AFG
CEILING MOUNTED DEVICE	CLO
FLOOR MOUNTED DEVICE	FLO
COUNTER HEIGHT	FLR
TO ABOVE ACCESSIBLE CEILING	TAC
TO ABOVE ACCESSIBLE HALLWAY / CORRIDOR CEILING	TACD
WIRE GUARD	WG
WEATHER PROOF EQUIPMENT / FEATURE / DEVICE	WP
CABLE WITH BRAIDED AND/OR FOL SHIELD	GI
BELOW FINISHED CEILING	BFC
FURNISHED AND INSTALLED BY OTHERS	FBI

CABLE AND CONDUIT COLOR SCHEDULE			
SYSTEM	CABLE COLOR	JACK INSERT	
DATA	BLUE	BLUE	
WAP	GREEN	GREEN	
SECURITY	PURPLE	PURPLE	
SECURITY-CAMERAS	YELLOW	YELLOW	
AV	ORANGE	ORANGE	

LEGEND GENERAL NOTES:

- BASE SYMBOLS ARE USED TO REFERENCE THE FLOOR PLAN LOCATION AND PROPER ROUGH-IN AND CABLING REQUIREMENTS.
- DIMENSIONS SHOWN IN THE LEGEND ARE TYPICAL, AND SHALL BE CONSIDERED UNLESS OTHERWISE NOTED AND/OR SPECIFIC DIMENSIONS INDICATED ON THE FLOOR PLAN SHALL SUPERCEDE THE TYPICAL.
- DIMENSIONS SHALL BE TO CENTER OF BOX / DEVICE UNLESS NOTED.

TECHNOLOGY LEGEND, SCHEDULE & NOTES

SYMBOL	DESCRIPTION	DEFAULT ROUGH-IN		CABLING TYPE/QUANTITY/NOTES		MISCELLANEOUS NOTES
		ELEVATION	BOX TYPE/USE	PATHWAY TYPE/USE	TYPE QUANTITY	
18"	DATA OUTLET, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. AREA A FOLLOWING AUTOMATION SYSTEMS OUTLET, SEC = SECURITY SYSTEMS OUTLET.	18" AFF UCN	4"x4" BOX WITH 1 GANG DEVICE	1" CONDUIT TAAC	CAT 6 (1)	*MINIMUM (1) DATA PROVIDE (1) DEVICE GANG AND CONDUIT PATHWAY FOR EACH SET OF 4 CABLES.
18"	DATA OUTLET WITH LOCAL INPUT, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. ROUTE (1) CONDUIT TAAC, ROUTE THE OTHER CONDUIT TO THE LOCAL FLAT PANEL OUTLET IN THE SAME SPACE.	18" AFF UCN	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6 (1)	*MINIMUM (1) DATA PROVIDE (1) DEVICE GANG AND CONDUIT PATHWAY FOR EACH SET OF 4 CABLES.
18"	DATA OUTLET WITH LOCAL OUTPUT, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. ROUTE (1) CONDUIT TAAC, ROUTE THE OTHER CONDUIT TO THE LOCAL INPUT OUTLET IN THE SAME SPACE.	18" AFF UCN	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6 (1)	*MINIMUM (1) DATA PROVIDE (1) DEVICE GANG AND CONDUIT PATHWAY FOR EACH SET OF 4 CABLES.
18"	VOICE OUTLET, NUMBER INDICATES QUANTITY OF VOICE JACKS AND CABLES. W = WALL PHONE OUTLET AT 4P APC, PAC = FIRE ALARM CONTROL, PANEL, OUTLET, ELEV = ELEVATOR PHONE OUTLET.	18" AFF UCN	4"x4" BOX WITH 1 GANG DEVICE	1" CONDUIT TAAC	CAT 6 (1)	*MINIMUM (1) VOICE PROVIDE (1) DEVICE GANG AND CONDUIT PATHWAY FOR EACH SET OF 4 CABLES.
18"	WIRELESS ACCESS POINT, PROVIDE DATA OUTLET AT 4P APC, PAC = FIRE ALARM CONTROL, PANEL, OUTLET, ELEV = ELEVATOR PHONE OUTLET.	ABOVE CEILING	4"x4" BOX WITH 1 GANG DEVICE	1" CONDUIT TAAC WHERE NOT INSTALLED AT ACCESSIBLE CEILING	CAT 6A (1)	PROVIDE A 25 SERVICE LOOP FOR ADJUSTMENT OF FINAL PLACEMENT COORDINATE LOCATIONS WITH OWNER.
18"	FLOOR DATA OUTLET, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. COORDINATE WITH DESIGNER IN CONTRACTOR.	FLOOR	1 GANG	1" CONDUIT TAAC OF INSTALLED FLOOR	CAT 6 (1)	*MINIMUM (1) PROVIDE (1) DEVICE GANG AND CONDUIT PATHWAY FOR EACH SET OF 4 CABLES.
18"	EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	-	*SACKBONE CABLING DETAILS PROVIDE FIRE RATED / PAINTED 3/4" X 8" PLYWOOD BACKBOARD SHEETS ON WALLS ENCOMPASSING THESE SPACES.
18"	TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	-	*SACKBONE CABLING DETAILS PROVIDE FIRE RATED / PAINTED 3/4" X 8" PLYWOOD BACKBOARD SHEETS ON WALLS ENCOMPASSING THESE SPACES.
18"	COMMUNICATIONS UTILITY ENTRANCE FACILITY - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	-	*SACKBONE CABLING DETAILS PROVIDE (1) FIRE RATED / PAINTED 3/4" X 8" PLYWOOD BACKBOARD SHEET FOR WALL DEVICES AT THIS LOCATION.
18"	TELECOM ROOM LADDER RACK, SEE AS NOTED, PROVIDE AT LOCATIONS SHOWN, PROVIDE CABLE WATER FULLS, WHERE CABLES EXIT LADDER RACK TO ENTER EQUIPMENT RACKS.	96"	N/A	N/A	-	*SACKBONE CABLING DETAILS PROVIDE FIRE RATED / PAINTED 3/4" X 8" PLYWOOD BACKBOARD SHEETS ON WALLS ENCOMPASSING THESE SPACES.
18"	LOW VOLTAGE CONDUIT PATHWAY / RISERS, SEE AS INDICATED, PROVIDE AT LOCATIONS DEPICTED, PROVIDE WATER FALLS WHERE MULTIPLE CABLES EXIT A CONDUIT IN A DOWNWARD DIRECTION.	N/A	N/A	N/A	-	*SACKBONE CABLING DETAILS PROVIDE FIRE RATED / PAINTED 3/4" X 8" PLYWOOD BACKBOARD SHEETS ON WALLS ENCOMPASSING THESE SPACES.
18"	CEILING MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, SUBSCRIPT 1 = INTEGRAL, VOLUME CONTROL.	CEILING	N/A	3/4" CONDUIT ABOVE NON-ACCESSIBLE CEILING	-	*SEE DETAILS
18"	LOCAL SOUND SYSTEM CEILING MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, SUBSCRIPT 1 = INTEGRAL, VOLUME CONTROL.	CEILING	N/A	3/4" CONDUIT ABOVE NON-ACCESSIBLE CEILING	-	*SEE DETAILS
18"	SURFACE MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, SUBSCRIPT 1 = INTEGRAL, VOLUME CONTROL.	96" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	SURFACE MOUNTED HORN SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, SUBSCRIPT 1 = INTEGRAL, VOLUME CONTROL.	96" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	WALL VOLUME CONTROL, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, SUBSCRIPT 1 = INTEGRAL, VOLUME CONTROL.	48" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	INTER-COMMUNICATION SYSTEM CALL INITIATION STATION, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	43" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	WALL MICROPHONE OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	18" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	AUDIO CONNECTION OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	18" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	AUDIO AND VIDEO CONNECTION OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, RD = A QUANTITY OF ADDITIONAL REQUIRED DATA OUTLETS.	18" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	FLAT PANEL DISPLAY OUTLET (FLAT PANEL, OFCI), SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	62" AFF	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6 (1)	*SEE DETAILS
18"	WIRELESS SYNCHRONOUS ANALOG WALL CLOCK, D = DUAL FACE CLOCKS WITH MOUNTING ADAPTERS, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	LOWER OF 12" BFC OR 96" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	-	*SEE DETAILS
18"	SYNCHRONOUS CLOCK HEADEND CONTROLLER	EQUIPMENT RACK	N/A	N/A	CAT 6 (1)	
18"	CARD / PROXIMITY AUTHENTICATION READER, M = MULLION MOUNT, REASON COORDINATE WITH DOOR HARDWARE SCHEDULE, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	40" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	SHI 6 COND (1)	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	DOOR POSITION SWITCH, DOUBLE PULL DOUBLE THROW (DPDT), PROVIDE DUAL SWITCHES ON DOUBLE / SLIP DOORS, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	TOP OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND (1)	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	ELECTRONIC HARDWARE, MOUNTED LOCK CYLINDRICAL LOCK, PANG HARDWARE, MAGNETIC LOCK, PANG DEVICE, ETC. TYPE, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	NEIGE SIDE OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND (1)	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	ELECTRIC STRIKE DEVICE, COORDINATE WITH DOOR HARDWARE SCHEDULE, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	STRIKE SIDE OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND (1)	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	REQUEST TO EXIT DEVICE, MOTION SENSING AIR TYPE OR INTEGRATED WITH EXIT DEVICE HARDWARE, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	CENT. CEILING ABOVE DOOR	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	6 COND (1)	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	SECURE DOOR LOCATION, SHALL INCLUDE THE DEVICE, ROUGH-IN, & CABLES REQUIRED (W/OUT DOOR, DOOR POSITION SWITCH, ELECTRIC STRIKE / ELECTRIFIED HARDWARE, & REQUEST TO EXIT DEVICE DETAILED ABOVE).	ERR ABOVE	SEE ABOVE	SEE ABOVE		IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
18"	DOOR RELEASE PUSH BUTTON, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	UNDER DOOR	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	2 COND (1)	
18"	LOCAL ANNUNCIATOR ALARM / SOUNDER	CEILING / WALL	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	2 COND (1)	
18"	DURESS ALARM BUTTON / SWITCH	UNDER DOOR	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	4 COND (1)	PROVIDE BLANK PLATE WITH GROMMETED HOLE.
18"	DOOR INTERCOM MASTER STATION, W = WALL MOUNTED, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	DESK MOUNT	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	CAT 6 (1)	
18"	AUTOMATED INTERCOM DOOR STATION, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	48"	4"x4" BOX	3/4" CONDUIT TAAC	CAT 6 (1)	*COORDINATE BOX REQUIREMENTS WITH SPECIFIC DEVICE TO BE PROVIDED.
18"	VIDEO SURVEILLANCE SECURITY CAMERA, CEILING MOUNTED, W = MULTIVIEW FUNCTIONALITY, D = DUAL-VIEW FUNCTIONALITY, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	CEILING	4"x4" BOX WITH 2 GANG DEVICE	3/4" CONDUIT TAAC	CAT 6 (1)	
18"	VIDEO SURVEILLANCE SECURITY CAMERA, WALL OR POLE MOUNTED, W = MULTIVIEW FUNCTIONALITY, D = DUAL-VIEW FUNCTIONALITY, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	120" AFF OR AFS	4"x4" BOX WITH 2 GANG DEVICE	3/4" CONDUIT TAAC	CAT 6 (1)	
18"	ACCESS CONTROL, PANEL LOCATION	SURFACE MOUNT	N/A	N/A	CAT 6 (1)	PROVIDE HARD PIPED POWER TO POWER SUPPLY.
18"	VIDEO SURVEILLANCE SERVER LOCATION	EQUIPMENT RACK	N/A	N/A	CAT 6 (1)	



Emboss Design
(859)431-4613
906 Monmouth Street,
Newport, KY 41071

NOT FOR CONSTRUCTION

PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY
BG# 25-363

NO. DESCRIPTION DATE
DESIGN DEV. SET 08/20/25

TECHNOLOGY LEGEND
SCHEDULE & NOTES

25-011

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AUDIO AND VIDEO SYSTEM GENERAL REQUIREMENTS:

- THE FOLLOWING NOTES ON THIS PAGE PROVIDE AN OVERVIEW OF VARIOUS SYSTEM FUNCTIONS AND FEATURES AND SHALL NOT BE CONSIDERED AS FULLY DESCRIBING SYSTEM PERFORMANCE. REFER TO THE COMPLETE PLANS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS AND INFORMATION.
- THE CONTRACTOR SHALL BE PREPARED TO PERFORM SYSTEM VERIFICATION TESTING IN THE PRESENCE OF THE OWNER AND THE DESIGNER. TIME HAS BEEN SCHEDULED INTO THE CONSTRUCTION PROCESS FOR FINAL SYSTEM SETUP, TESTING AND COMMISSIONING.
- CABLE GAUGE SHALL BE SIZED FOR THE DISTANCE, VOLTAGE, IMPEDANCE, AND AMPERAGE TO BE CONVEYED AS WELL AS PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE ALL INTERCONNECTION CABLEING AS DEPICTED AND AS REQUIRED FOR A COMPLETE AND FUNCTIONAL AUDIO VIDEO SYSTEM. PROVIDE LENGTHS AS REQUIRED WITH SUFFICIENT MAINTENANCE LOOP.
- COORDINATE ANY COLOR SELECTIONS WITH THE OWNER AND THE DESIGNER PRIOR TO PURCHASING EQUIPMENT.
- THESE AND ALL FOLLOWING AUDIO VIDEO NOTES / REQUIREMENTS SHALL APPLY TO ALL AUDIO VIDEO SYSTEMS ON THIS SHEET AND ALL OTHER SHEETS / SYSTEMS ASSOCIATED WITH THIS PROJECT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

CONTROL SYSTEM SOFTWARE AND PROGRAMMING REQUIREMENTS:

- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH FUNCTIONAL CUSTOM CONTROL INTERFACES. SAFE USE IS OF PARAMOUNT IMPORTANCE. THE CONTRACTOR SHALL WORK CURRENTLY THROUGH THE SOFTWARE DEVELOPMENT PROCESS WITH THE OWNER TO CREATE THE DESIRED RESULT.
- WHERE POSSIBLE, THE CONTROL SYSTEM SHALL AUTOMATE SYSTEM TASKS TO REDUCE REQUIRED USER INTERACTION. FOR EXAMPLE, UPON SOURCE DETECTION, DISPLAYS SHALL POWER ON, SCREENS SHALL DROP AUDIO SYSTEMS SHALL BE ENABLED AT DEFAULT SETTINGS ETC.
- ALL REMOTE CONTROLLABLE AV SYSTEM PRODUCTS WITH REMOTE CONTROL CAPABILITIES SHALL BE INTERFACED TO THE CONTROL SYSTEM WHETHER BY MEANS OF RS232, RS485, DIGITAL I/O, IP COMMUNICATIONS, ETC. CONTROL SYSTEM SOFTWARE SHALL CONTROL THE PRODUCT TO THE EXTENT DETERMINED DURING SOFTWARE DEVELOPMENT.

AUDIO SYSTEM PROGRAMMING REQUIREMENTS:

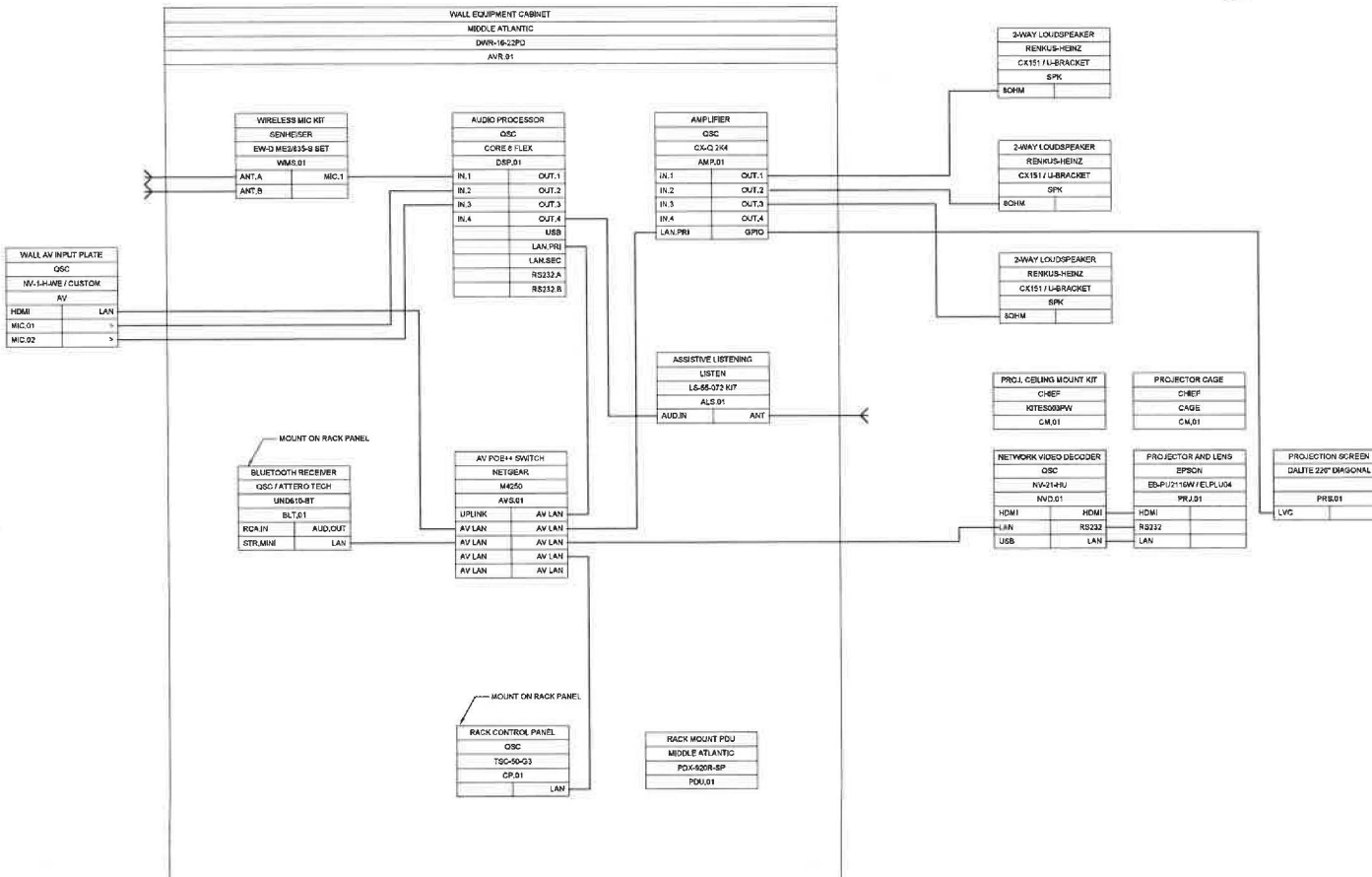
- THE AUDIO SYSTEM SETUP IS CRUCIAL TO THE OVERALL SUCCESSFUL PERFORMANCE OF THESE SPACES. THE CONTRACTOR SHALL BE FLUENT IN THE SETUP OF FLEXIBLE ARCHITECTURE DIGITAL SIGNAL MING / PROCESSORS.
- AUDIO SHALL BE SET TO DEFAULT SETTINGS UPON SYSTEM INSTALLATION. THIS SHALL INCLUDE PHANTOM POWER SETTINGS, MUTE BUTTONS, SUB-MASTER MUTE BUTTONS AND AUDIO GAIN SETTINGS. THESE SHALL BE ADJUSTED UPON FINAL AUDIO SETUP IN THE ROOM WITH WORKING EQUIPMENT.
- THE AUDIO CONTROLS ON THE USER INTERFACES SHALL REPRESENT THE APPROPRIATE USABLE RANGE FOR THE END USER. THE 65 RANGE ON THE USER INTERFACE SHALL INCLUDE A RANGE OF ADJUSTMENT THAT RESULTS IN ADJUSTABLE CHANGES TO THE SPL, AND NOT AN OVERLY BROAD RANGE OF ADJUSTMENT THAT INCLUDES THE ENTIRE GAIN ADJUSTMENT OF THE SYSTEM.

PROJECT
BLANK TRIT PANEL
VIDEO IN
BLANK TRIT PANEL
VIDEO OUT
BLANK TRIT PANEL
AUX IN
BLANK TRIT PANEL
AUX OUT
OP.01 / BLT.01
BLANK TRIT PANEL
OP.01
BLANK TRIT PANEL
BLT.01

WALL EQUIPMENT CABINET
MIDDLE ATLANTIC
DWR-16-22PD
AVR.01

1
T500 12" x 12"

AVR.01 EQUIPMENT RACK ELEVATION



1
T500 12" x 12"

EX GYM 150 AUDIO AND VIDEO SYSTEM DIAGRAM



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NO.	DESCRIPTION	DATE
	DESIGN DEV. SET	06/28/25

TECHNOLOGY DETAILS AND DIAGRAMS

25-011

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