VALLEY CENTRAL SCHOOL DISTRICT WALDEN ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE 1

-ADD ALTERNATE ALT-GAC-1-01-001

ADD ALTERNATE ALT-GAC-1-01-001

ISSUED FOR BID: 10/18/24

CSARCH - ARCHITECTS

BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:

THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT

2023 CAPITAL PROJECT - PHASE 1 44-13-01-06-0-009-021 -ADD ALTERNATE ALT-GAC-1-01-001 SIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND



Walden Elementary School 75 Orchard St Walden, NY 12586

ADD ALTERNATE ALT-GAC-1-01-001

DRAWING LIST

GENERAL DRAWINGS

LIFE SAFETY DRAWINGS

STRUCTURAL DRAWINGS

ARCHITECTURAL DRAWINGS

WES A651 CASEWORK DETAILS WES A701 PARTITION TYPES WES A702 PARTITION TYPES

ARCHITECTURAL FINISH DRAWINGS

PLUMBING GENERAL DRAWINGS

PLUMBING GENERAL DRAWINGS WES P111 PLUMBING PLANS

MECHANICAL GENERAL DRAWINGS

MECHANICAL DRAWINGS

ELECTRICAL DRAWINGS

WES M111 MECHANICAL PLANS

ELECTRICAL GENERAL DRAWINGS

ELECTRICAL DEMOLITION DRAWINGS

'ES E111 ELECTRICAL PLANS

WES ED111 ELECTRICAL DEMOLITION PLANS

MECHANICAL DEMOLITION DRAWINGS

WES MD111 MECHANICAL DEMOLITION PLANS

WES LS101 LIFE SAFETY PLANS WES LS102 SMOKE ZONE PLANS

ARCHITECTURAL DEMOLITION DRAWINGS

WES A601 ELEVATIONS AND SECTIONS

WES AD111 REMOVAL PLANS - FIRST & SECOND FLOOR

WES S100 STRUCTURAL NOTES, PLANS, AND DETAILS

WES A901 DOOR, WINDOW, & STOREFRONT DETAILS

WES A111 NEW WORK PLANS - FIRST AND SECOND FLOOR

WES A811 REFLECTED CEILING PLANS, DEMO PLANS, AND DETAILS

WES P001 PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS

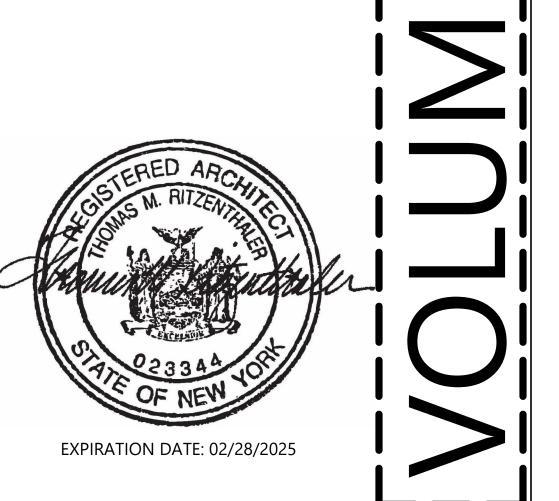
WES M001 MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS

WES E001 ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS

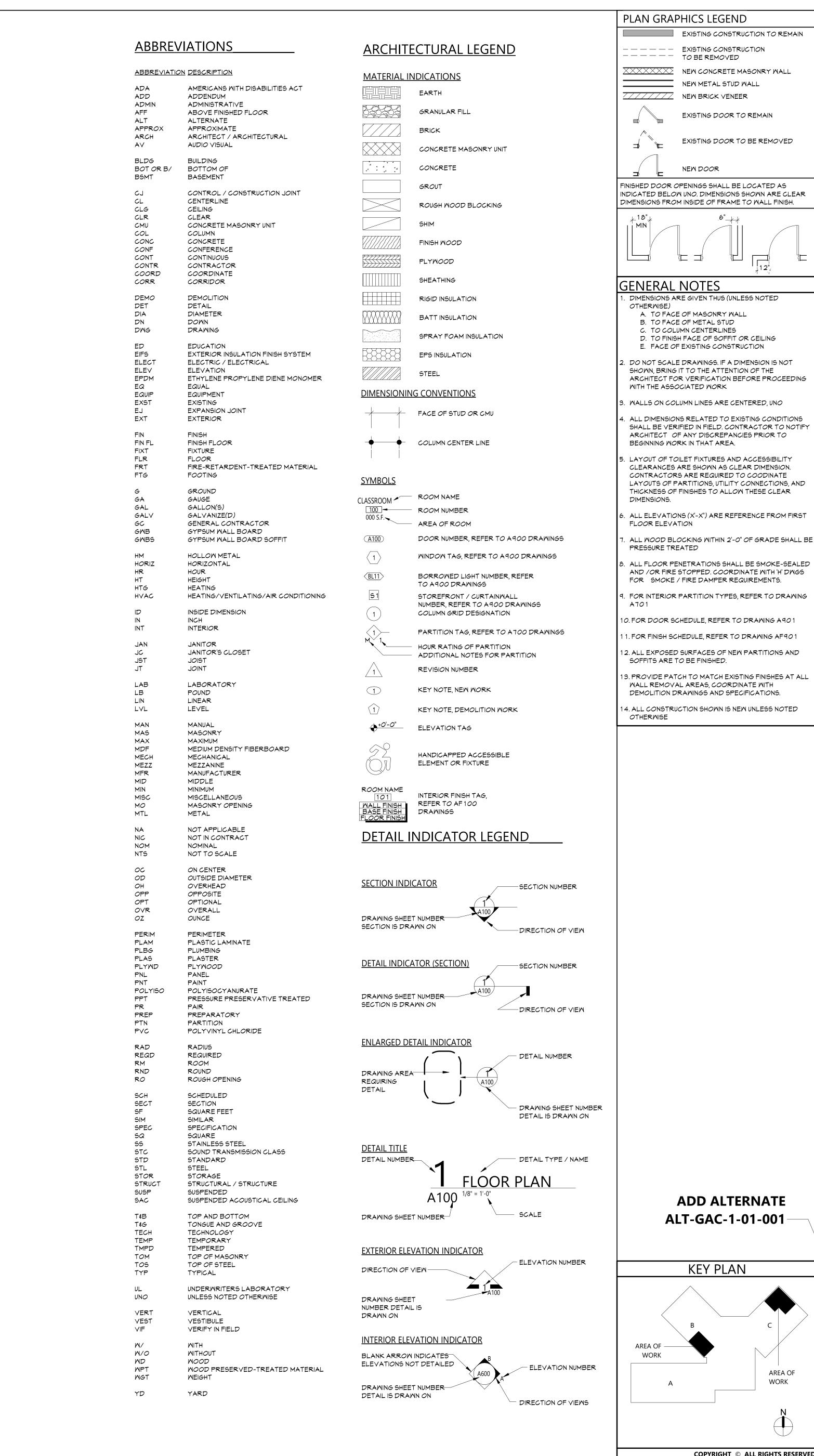
WES AF111 MATERIAL SCHEDULE, FURNITURE, AND FLOOR FINISH PLANS

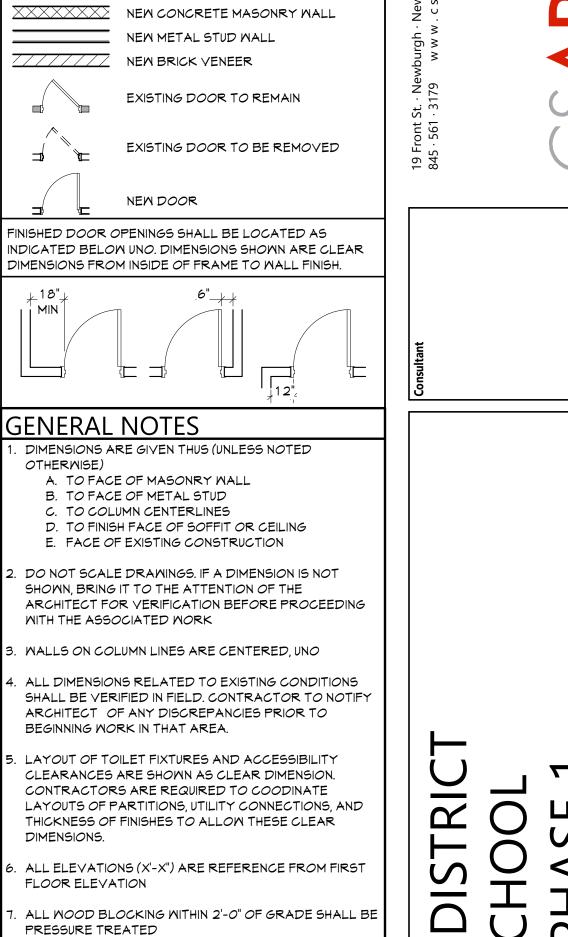
WES G000 COVER & SHEET INDEX

WES G001 SYMBOLS, ABBREVIATIONS, AND MISC WES G111 OVERALL FLOOR PLAN - FIRST FLOOR WES G121 OVERALL FLOOR PLAN - SECOND FLOOR



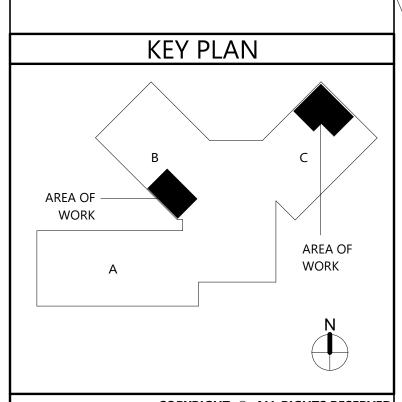
VICINITY MAP





EXPIRATION DATE: 02/28/2025

ADD ALTERNATE ALT-GAC-1-01-001



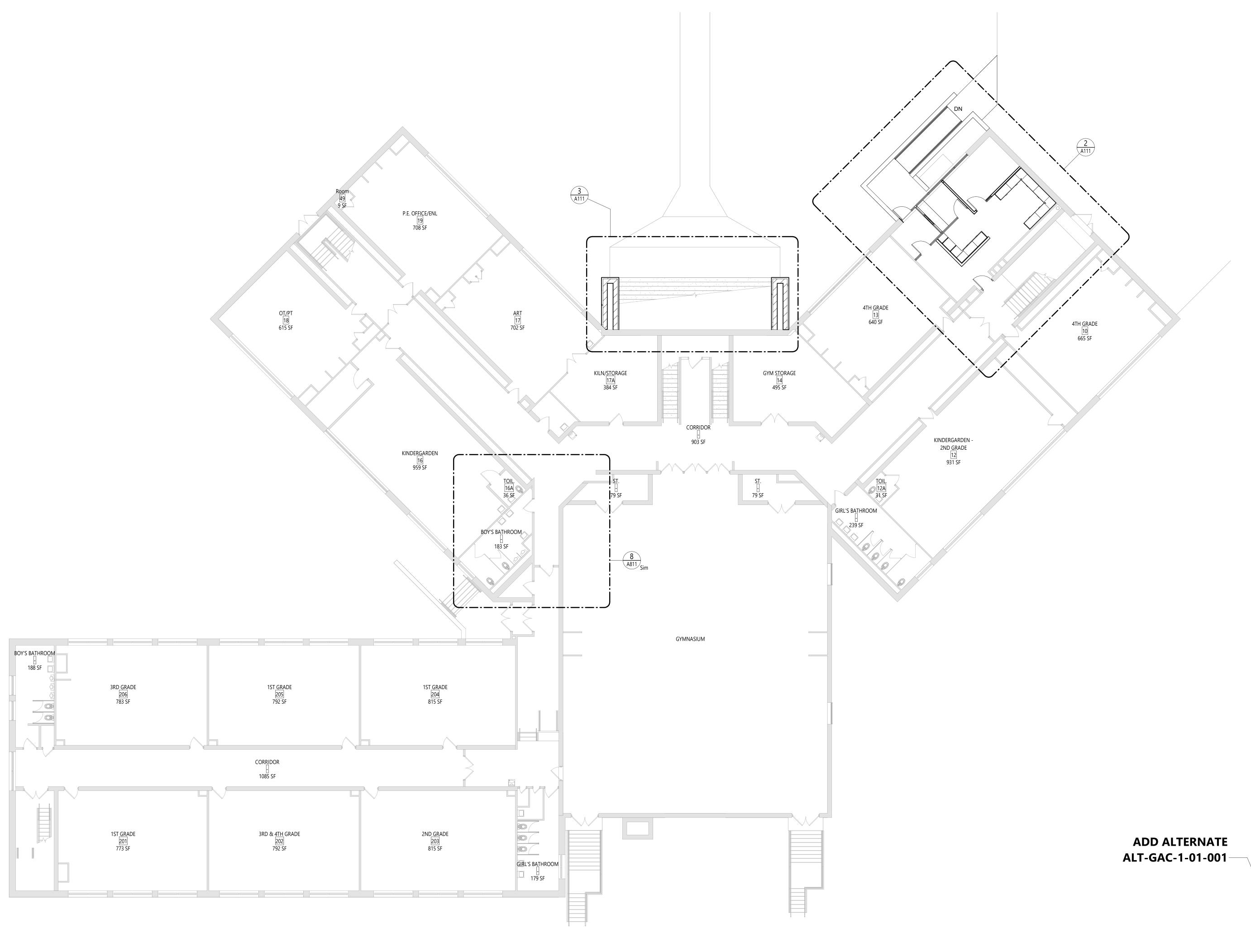
Proj. #: 44-13-01-06-0-009-02 CSArch Proj. #: Issued for Bid: SYMBOLS,

AND MISC

CONSTRUCTION DOCUMENTS

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GENERAL DESIGN LOAD REQUIREMENTS							
LOADING TYPE	BUILDING CODE SECTION	OCCUPANCY/USE/LOCATION	REQUIRED				
MINIMUM UNIFORM DISTRIBUTED LIVE LOADS	2020 BUILDING CODE OF NEW YORK STATE TABLE 1607.1	SCHOOLS - CLASSROOMS SCHOOLS - FIRST FLOOR CORRIDORS SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	40 PSI 100 PSI 80 PSI				
		OFFICE BUILDINGS - OFFICES	50 PSI				
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI				
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	40 PSI				
FLAT ROOF SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	28 PSI				
DESIGN WIND SPEEDS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1609.3	RISK CATEGORY III MONTGOMERY, NY	130 VMPH				



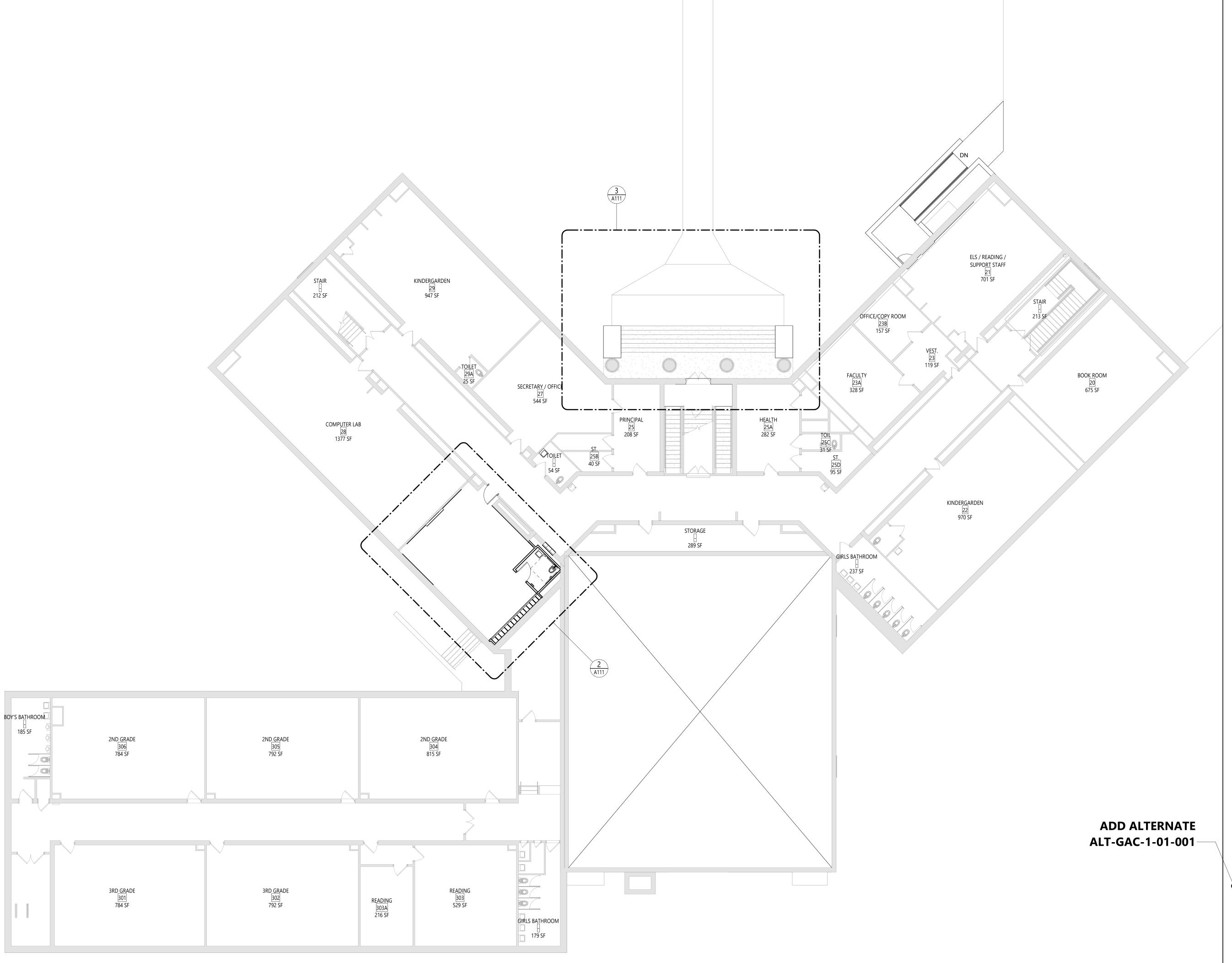
OVERALL FLOOR PLAN -FIRST FLOOR

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OVERALL FIRST FLOOR PLAN

G111 1" = 10'-0"

GENERAL DESIGN LOAD REQUIREMENTS						
LOADING TYPE	BUILDING CODE SECTION	OCCUPANCY/USE/LOCATION	REQUIRED			
MINIMUM UNIFORM	2020 BUILDING CODE OF NEW	SCHOOLS - CLASSROOMS	40 PSI			
DISTRIBUTED LIVE LOADS	YORK STATE TABLE 1607.1	SCHOOLS - FIRST FLOOR CORRIDORS	100 PSI			
		SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	80 PSI			
		OFFICE BUILDINGS - OFFICES	50 PSI			
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI			
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW	ORANGE COUNTY	40 PSI			
	YORK STATE FIGURE 1608.2	MONTGOMERY, NY				
FLAT ROOF SNOW LOADS	2020 BUILDING CODE OF NEW	ORANGE COUNTY	28 PSI			
	YORK STATE FIGURE 1608.2	MONTGOMERY, NY				
DESIGN WIND SPEEDS	2020 BUILDING CODE OF NEW	RISK CATEGORY III	130 VMPH			
	YORK STATE FIGURE 1609.3	MONTGOMERY, NY				



LLEY CENTRAL SCHOOL DISTRICT VALDEN ELEMENTARY SCHOOL)23 CAPITAL PROJECT - PHASE 1

EXPIRATION DATE: 02/28/2025

DATE DESCRIPTION

Drawn By: Author Checked By: Checked Proj. #: 44-13-01-06-0-009-02 CSArch Proj. #: 187-2302.0 Issued for Bid: 10/18/2

Sheet Title

CSArch Proj. #: 187-2302
Issued for Bid: 10/18/
Sheet Title

OVERALL
FLOOR PLAN SECOND
FLOOR

WES G121

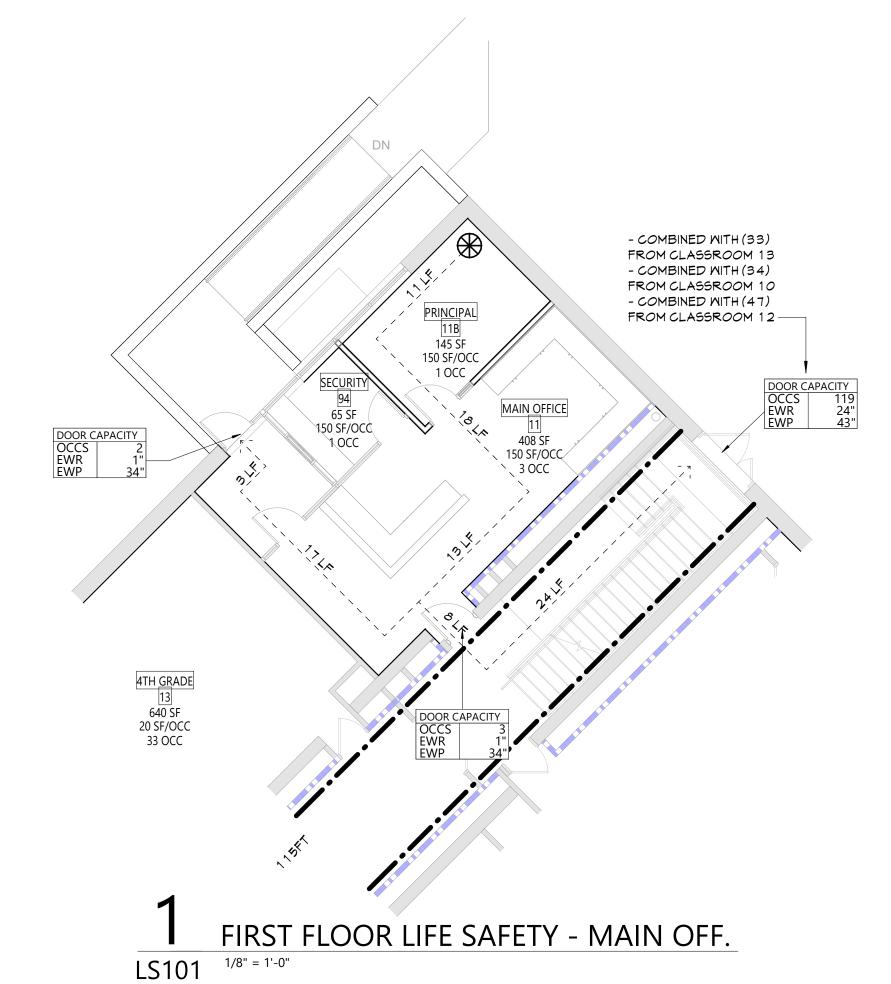
OVERALL SECOND FLOOR PLAN

G121 1" = 10'-0"

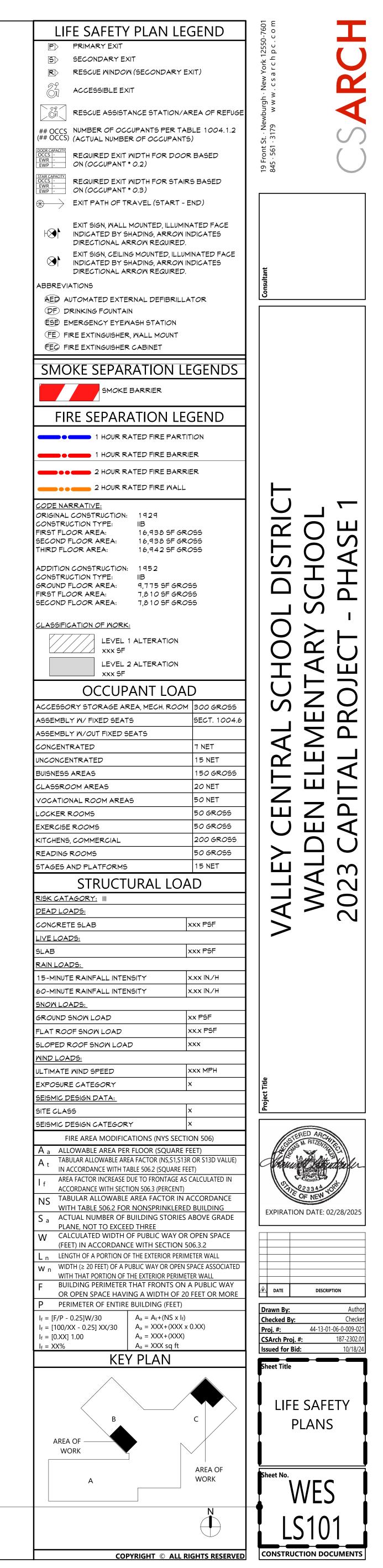
COMPANY OF THE STATE OF THE STA

SECOND FLOOR LIFE SAFETY - 4TH GRADE

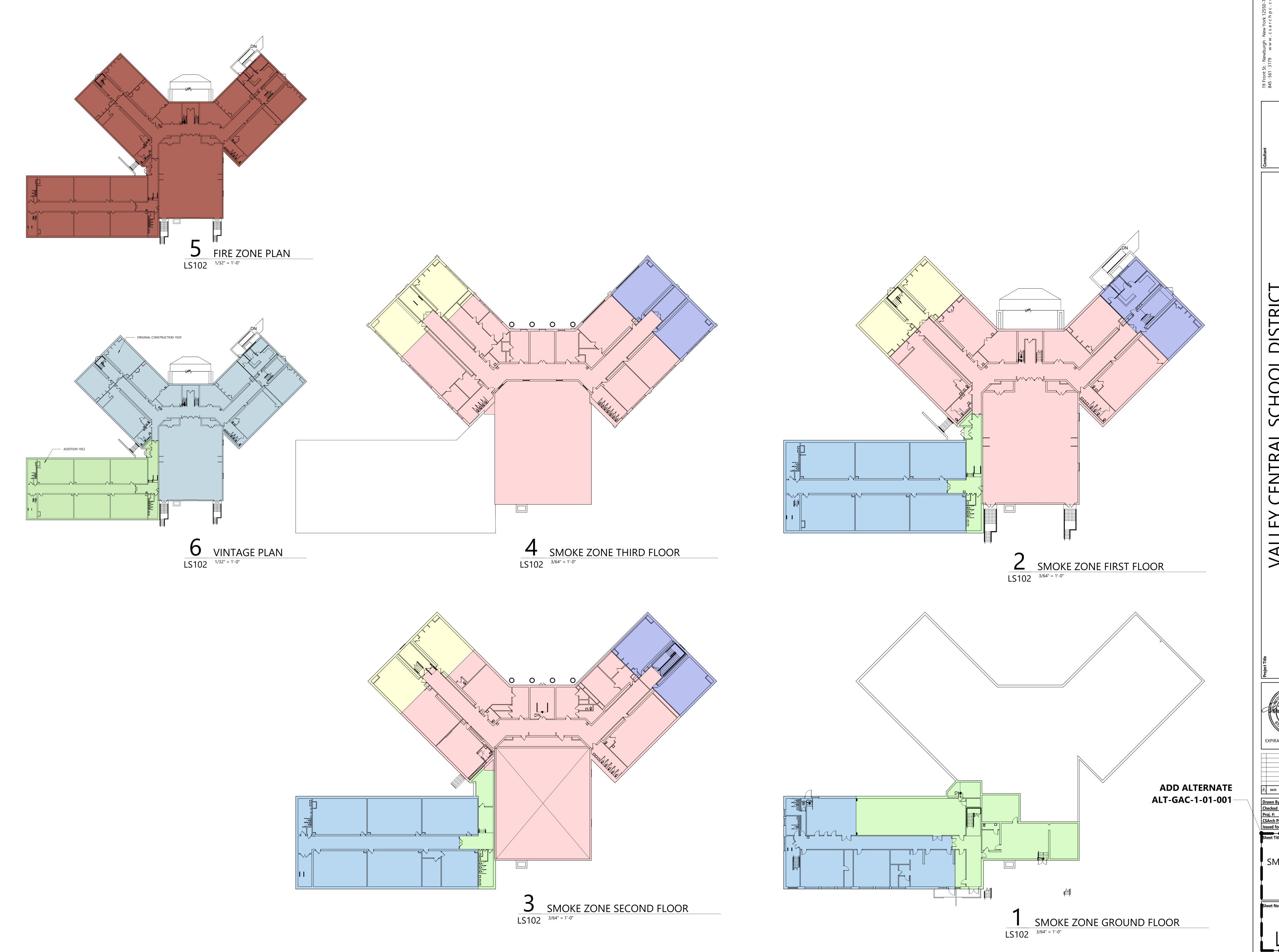
LS101 1/8" = 1'-0"



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LEY CENTRAL SCHOOL DISTRICT 'ALDEN ELEMENTARY SCHOOL 23 CAPITAL PROJECT - PHASE 1

EXPIRATION DATE: 02/28/2025

DATE DESCRIPTION

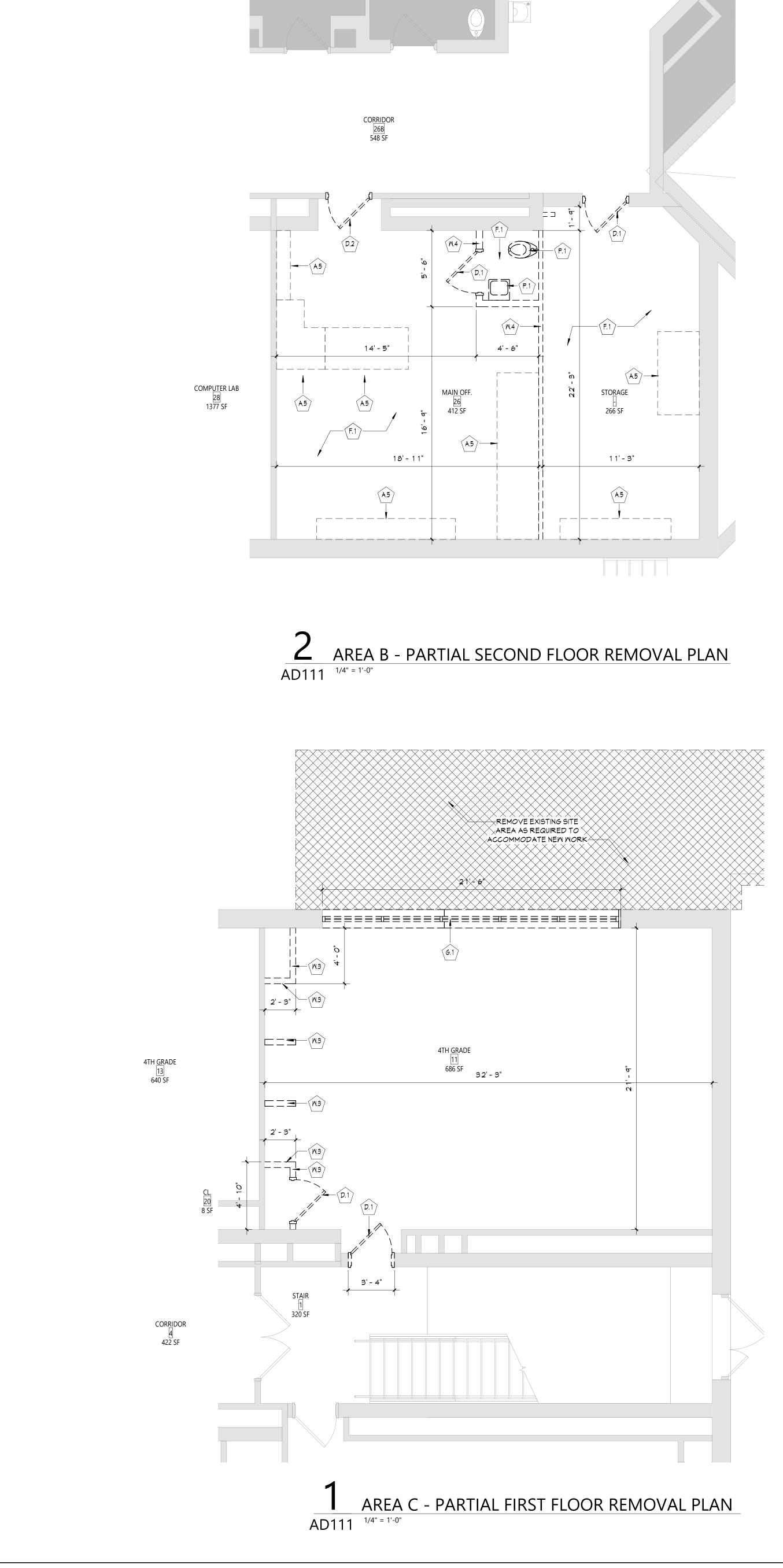
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Sheet Title

SMOKE ZONE
PLANS

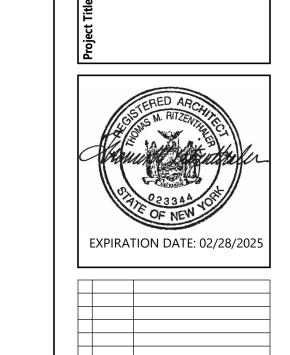
WES LS102

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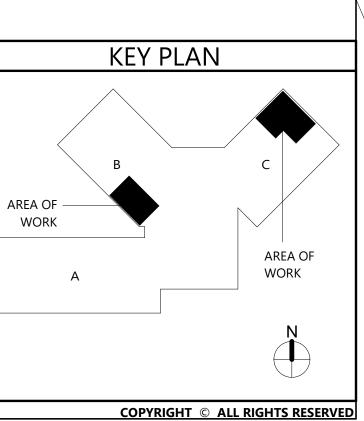


1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, 4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS. 5. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION. 6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS. 7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN. DEMOLITION KEYNOTES Description A.5 REMOVE BUILT-IN CASEWORK IN ITS ENTIRETY. D.1 REMOVE DOOR, HARDWARE, AND FRAME IN ITS D.2 REMOVE DOOR AND HARDWARE, FRAME TO F.1 REMOVE FLOOR FINISH, INCLUDING ALL PADDING, ADHESIVES AND WALL BASE, TO SLAB BELOW G.1 REMOVE WINDOW UNIT SYSTEM IN ITS ENTIRETY, INCLUDING ALL METAL SILL FLASHING, FLASHINGS, AND FASTENERS. P.1 PLUMBING REMOVAL. W.3 REMOVE STUD PARTITION IN ITS ENTIRETY. W.4 REMOVE WALL TO THE EXTENT SHOWN.

GENERAL NOTES



ADD ALTERNATE ALT-GAC-1-01-001



PLANS - FIRST & SECOND FLOOR Sheet No. WES AD111

- MECHANICAL, ELECTRICAL, HVAC, AND PLUMBING DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START
- OF CONSTRUCTION OR SHOP DRAWINGS. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.
- ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR
- AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY
- GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES. COORDINATE WORK OF ALL DISCIPLINES (STRUCT., ARCH., MECH., ELECT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS
- PERFORMING WORK AT THE SITE. ALL TEMPORARY SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE
- WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.
- 10. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO CONSTRUCTION. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IMMEDIATELY. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. CHANGES AFFECTING THE LAYOUT SHOWN MUST BE SPECIFIC AND CLEARLY CONVEYED TO THE OWNER'S REPRESENTATIVE IN WRITTEN
- FORM AS A CHANGE FOR INCLUSION INTO THESE PLANS. . SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS
- 12. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
- 13. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC. PLUMBING, PROCESS OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE PERTINENT TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

FOUNDATION NOTES

LOCATED ON COLUMN CENTERLINES.

STATEMENT OF SPECIAL INSPECTIONS

LOCATION

DESIGN PROFESSIONAL IN CHARGE

SPECIAL INSPECTION AGENCIES

Special Inspection Coordinator

conflicts of interest so that objectivity can be confirmed.

Inspectors and testing technicians shall be provided.

Key for Minimum Qualifications of Inspection Agents:

PE/GE

ACI-LTT

AWS/AISC-SSI

ICC-SMSI

ICC-SWSI

ICC-PCSI

ICC-RCSI

NICET-ST

NICET-GET

STATEMENT OF CONTRACTORS RESPONSIBILITY

- 1. DESIGN OF FOOTINGS AND FOUNDATION WALLS IS BASED ON THE FOLLOWING CRITERIA:
- A. MAXIMUM ALLOWABLE BEARING PRESSURE = 1500 PSF (ASSUMED) A GEOTECHNICAL ENGINEER SHALL OBSERVE THE OPEN EXCAVATION TO DETERMINE THAT THE SOIL TYPE AND CONDITIONS ARE CONSISTENT WITH DESIGN CRITERIA OF THE SOIL REPORT. IF THE SOIL PROPERTIES ARE FOUND TO BE DIFFERENT FROM THIS CRITERIA THE OWNER'S REPRESENTATIVE SHALL BE PROMPTLY NOTIFIED SO THAT THE FOUNDATION DESIGN MAY BE REVIEWED.
- NO FOUNDATION CONCRETE SHALL BE INSTALLED UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. FOOTINGS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. WHERE FOOTINGS ARE REQUIRED TO BE LOWERED MORE THAN 1 FOOT, NOTIFY THE ENGINEER OF RECORD.
- TO MINIMIZE WEATHERING, THE LAST 6 INCHES OF EXCAVATION FOR ALL FOOTINGS SHALL BE MADE IMMEDIATELY PRIOR TO PLACEMENT OF FOOTINGS. WHERE ROCK OUTCROPPINGS ARE ENCOUNTERED IN ANY FOOTING EXCAVATION, UNDERCUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW ELEVATION OF BOTTOM OF FOOTING AND BACKFILL WITH
- THOROUGHLY COMPACTED #10 FINES. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE
- BACKFILLING BEHIND BASEMENT WALLS SHALL START ONLY AFTER ADJOINING WALLS/FLOORS (SLAB ON GRADE AND ELEVATED SLAB) AND SUPPORTING FLOOR STRUCTURES HAVE BEEN COMPLETED AND HAVE REACHED 28-DAY DESIGN COMPRESSIVE STRENGTH FOR CONCRET

Special Inspection program does not relieve the contractor of his or her responsibility for quality assurance.

Job site safety and means and methods of construction are solely the responsibility of the contractor.

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

Concrete Field Testing Technician - Grade 1 Concrete Construction Special Inspector

Laboratory Testing Technician - Grade 1&2

Certified Welding Inspector

Certified Structural Steel Inspector

Structural Masonry Special Inspector

Structural Steel and Welding Special Inspector

Spray-Applied Fireproofing Special Inspector

Prestressed Concrete Special Inspector

Reinforced Concrete Special Inspector

Concrete Technician - Levels I, II, III, & IV

Geotechnical Engineering Technician - Levels I, II, III & IV

Soil Technicians - Levels I, II, III & IV

certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

Structural Engineer - a licensed PE specializing in the design of building structures

Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations

inspections shall be submitted by the special Inspection Coordinator prior to issuance of a Certificate of Use and Occupancy.

TBD

TBD

Interim reports shall be submitted to the Building Official and the RDP, monthly.

SCHEDULE OF INSPECTION AND TESTING AGENCIES

Walden, NY

Valley Central School District

Patrick J. Williams, PE, SE

ADDRESS

TBD

TBD

TELEPHONE No.

(###) ###-####

(###) ###-####

This statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements

of the applicable building code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection

encompasses the following disciplines: STRUCTURAL. The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to

the Building Official and the Registered Design Professional in Responsible Charge (RDP). Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the RDP. The

coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent in accordance with the applicable building code, and not by the

Contractor or Subcontractor whose work is to be inspected or tested. An approved agency shall be objective, competent and independent from the contractor

In accordance with the applicable building code, each contractor responsible for the construction of a main wind or seismic force-resisting system, designated

to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspections.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test of inspection have a specific

Engineer - In - Training - a graduate engineer who as passed the Fundamentals of Engineering examination

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

seismic system or a wind or seismic force-resisting component listed in the statement of special inspections above shall submit a written statement of responsibility

responsible for the work being inspected. The agency shall also disclose to the building official and the registered design professional in responsible charge possible

In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.

CONCRETE NOTES

- 1. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
- A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" B. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". C. ACI DETAILING MANUAL (ACI SP-66-04).
- D. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK". E. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".

F. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING

- CONCRETE". MATERIALS:
- A. REINFORCING BARS ASTM A615, GRADE 60, DEFORMED B. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.
- C. PORTLAND CEMENT-ASTM C150, TYPE II. D. AGGREGATES-ASTM C33.
- E. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.
- F. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED. 3. CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED, PROVIDING BARS
- ARE OF THE LONGEST PRACTICABLE LENGTH AND SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE, SPLICES SHALL BE STAGGERED. FIELD CUTTING OF REINFORCEMENT WILL NOT BE PERMITTED. 4. UNLESS OTHERWISE SHOWN, BARS AT WALL AND CONTINUOUS FOOTING CORNERS AND INTERSECTIONS SHALL BE DETAILED AS SHOWN ON FIGURE 15 OF ACI SP-66-04. CORNER BARS SHALL
- BE DETAILED AS SHOWN FOR OUTSIDE LOADED ONLY CORNERS. INTERSECTIONS SHALL BE DETAILED WITHOUT DIAGONAL BARS. ALL END HOOKS SHALL BE STANDARD 90 DEGREE END HOOKS AND Corner Bars shall be 48 bar diameters x 48 bar diameters minimum unless noted
- 5. PROVIDE DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED FOR ALL STRUCTURAL ELEMENTS, UNLESS OTHERWISE INDICATED. DOWELS MUST BE PLACED AND SECURED PRIOR TO
- 6. MAJOR CONSTRUCTION JOINTS ARE SHOWN ON THE DRAWINGS. INTERMEDIATE JOINTS IN WALLS, SLABS, AND FLOOR FRAMING ARE NOT SHOWN. CONSTRUCTION JOINTS MAY BE ADDED, OMITTED OR RELOCATED IF PROPERLY DETAILED ON SHOP DRAWINGS AND APPROVED BY THE OWNER'S

CONCRETE PLACEMENT (WET STICKING REINFORCING NOT PERMITTED"

- REPRESENTATIVE. 7. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE SHOWN. DO NOT CUT REINFORCEMENT. SEE TYPICAL REINFORCEMENT DETAILS
- FOR OPENINGS IN SLABS AND WALLS FOR ADDITIONAL REQUIREMENTS 8. PLACING OF REINFORCEMENT: PROVIDE CHAIRS, BOLSTERS, ADDITIONAL REINFORCEMENT, AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITION SHOWN ON DRAWINGS. SUPPORT OF REINFORCEMENT ON FORM TIES, WOOD, BRICK, BRICKBAT OR OTHER UNACCEPTABLE
- MATERIAL, WILL NOT BE PERMITTED. 9. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED
- AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS 10. PROVIDE CONTROL JOINTS IN CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AT 12 FEET O.C. MAX. LOCATE CONTROL JOINTS TO FORM APPROXIMATE SQUARE PANELS WITH THE LENGTH OF ONE SIDE
- NOT EXCEEDING THE ADJACENT SIDE BY A FACTOR OF 1.5. CONTROL JOINTS MAY BE CONTRACTION JOINTS, CONSTRUCTION JOINTS, OR EXPANSION JOINTS. 11. BASEMENT AND RETAINING WALLS SHALL BE CAST IN ALTERNATE PANELS NOT TO EXCEED 65 FEET IN
- 12. CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND OTHER FORCES UNTIL FLOOR SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTHS. 13. PROVIDE CONTROL JOINTS IN CONCRETE CANTILEVERED RETAINING WALLS AT EQUAL INTERVALS
- NOT TO EXCEED 25 FEET. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT. 14. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT THE MID-SPAN OF BEAMS, SLABS AND WALLS AND SHALL BE SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS AND GIRDERS, CONSTRUCTION JOINTS SHALL BE PLACED AT MID-SPAN OF DECK AND MID-WAY BETWEEN GIRDERS 15. DEPRESS FLOOR SLABS AS REQUIRED; SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND DEPTH
- OF DEPRESSED AREAS. 16. CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES 3/4-INCH, UNO.
- 17. SLABS AND BEAMS OR JOISTS SHALL BE CAST MONOLITHICALLY UNLESS OTHERWISE INDICATED. 18. WHERE PARTITIONS OF ANY MATERIAL ABUT CONCRETE COLUMNS, PROVIDE AN UNBROKEN SURFACE FOR THE WALL FINISH. OMIT CHAMFER AND PROVIDE SQUARE CORNERS WHERE FACE OF
- THE CONCRETE COLUMN ALIGNS WITH THE ROUGH WALL OR RECEIVES A FINISH. 19. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHEN IT IS SAFE TO REMOVE FORMS AND/OR SHORING. FORMS AND SHORING MUST NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT AND ANY ANTICIPATED SUPERIMPOSED LOADS. WHEN FORMS ARE STRIPPED THERE MUST BE NO EXCESSIVE DEFLECTION, DISTORTION, DISCOLORATION, AND NO

EVIDENCE OF DAMAGE TO THE CONCRETE.

POST-INSTALLED ANCHOR NOTES:

- 1. POST INSTALLED ANCHORS HAVE BEEN DESIGNED WITH HILTI ANCHORS (NOTED BELOW) AS THE BASIS OF DESIGN. INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- A. EXPANSION ANCHORS: KWIK BOLT ((3 OR TZ) B. SLEEVE ANCHORS: HLC SLEEVE ANCHOR
- C. ADHESIVE ANCHORS: HIT HY-200 D. SCREEN TUBE ANCHORS: HIT HY-270 2. CONTRACTOR MAY PROVIDE EQUIVALENT ANCHORS WITH SIZE AND FINISH AS NOTED AND
- EQUIVALENT SHEAR AND TENSION CAPACITIES AFTER MODIFICATION DUE TO EMBEDMENT, SPACING AND EDGE DISTANCES AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE 3. ALL ADHESIVE ANCHORS FOR REINFORCING SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS.

4. DESIGN ADHESIVE BOND STRENGTH FOR ADHESIVE ANCHORS IN CONCRETE HAS BEEN BASED ON ACI

355.4, TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. 5. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318 D.9.2.4.

RENOVATION AND EXISTING STRUCTURE NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION AND ERECTION OF ALL STRUCTURAL MEMBERS. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION.
- BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE, WHICH ARE TO REMAIN.
- 3. ALL EXISTING STRUCTURAL ELEMENTS (SLABS, BEAMS, WALLS, COLUMNS, FOUNDATIONS...) SHALL REMAIN INTACT UNLESS SPECIFICALLY NOTED TO BE REMOVED BY THE DEMOLITION DOCUMENTS OR OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
- 4. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DESIGN DOCUMENTS AND LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY AND AWAIT DIRECTION FROM THE OWNER'S REPRESENTATIVE IF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS IS DISCOVERED
- 5. THIS PROJECT REQUIRES DRILLING INTO EXISTING REINFORCED CONCRETE STRUCTURE. THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL PAYMENT FOR DIFFICULTIES ENCOUNTERED IN DRILLING DUE TO HARDNESS OF MATERIALS, HITTING OF EXISTING REINFORCING, ETC. ALL COSTS ASSOCIATED WITH RE-DRILLING OF HOLES DUE TO HITTING EXISTING REINFORCING STEEL SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES FILLING UNNECESSARY AND UNUSED HOLES WITH EPOXY GROUT. DO NOT CUT REINFORCING STEEL DURING CONCRETE DRILLING OR CORING OPERATIONS. LOCATE REINFORCING USING NON-DESTRUCTIVE TESTING PRIOR TO DRILLING AND CORING **OPERATIONS**
- 6. CORE DRILLS REQUIRED BY MECHANICAL OR ELECTRICAL TRADES BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DOCUMENTED SHOWING EXACT DIMENSIONS AND LOCATIONS. THE DRAWING SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCEEDING WITH THE DRILLING OPERATION.
- 7. EXISTING CONCRETE SURFACE PREPARATION: INTENTIONALLY ROUGHEN EXISTING CONCRETE SURFACES TO AN AMPLITUDE OF 3/4" WHERE NEW CONCRETE IS BEING PLACED AGAINST THE EXISTING CONCRETE AND CONNECTED BY DRILLING AND EPOXY GROUTING.
- 8. EXISTING CONCRETE SURFACE PREPARATION: INTENTIONALLY ROUGHEN EXISTING CONCRETE SURFACES TO AN AMPLITUDE OF 3/4" WHERE NEW CONCRETE IS BEING PLACED AGAINST THE EXISTING CONCRETE AND CONNECTED BY DRILLING AND EPOXY GROUTING. THE ENTIRE COMMON SURFACE WHERE THE EXISTING CONCRETE ABUTS THE NEW SHALL BE COATED WITH A BONDING AGENT. FOLLOW ALL ADDITIONAL REQUIREMENTS OF SURFACE REPARATION AS REQUIRED BY THE BONDING AGENT MANUFACTURER.

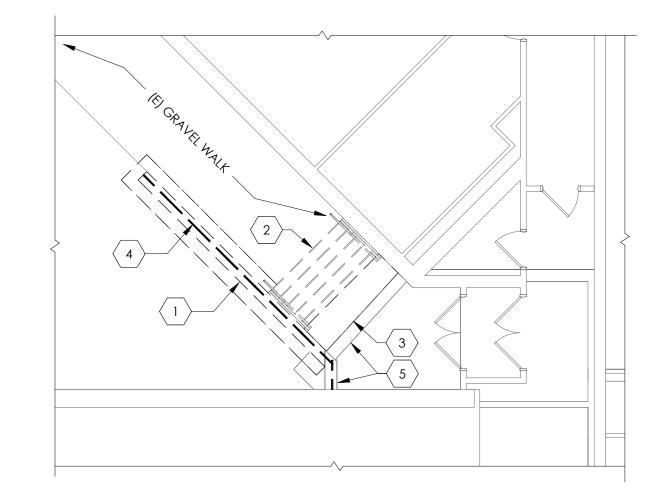
DELEGATED DESIGN NOTES:

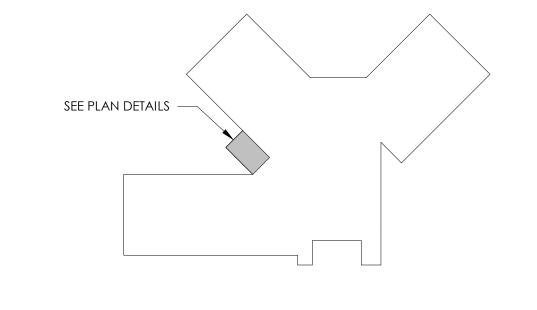
PROVIDE DOCUMENTS, DOCUMENTATION, AND INFORMATION INDICATED PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE THE WORK IS PERFORMED.

- 2. SOIL BEARING AND SURFACE CONDITIONS FOR STRUCTURAL WORK ON EARTH OR FILL.
- 3. GUARDRAILS AND RAILINGS 4. CONCRETE FORMWORK 5. ANCHORS AND FASTENERS IN-LIEU OF SPECIFIED FASTENERS.

SPECIAL INSPECTION NOTES:

- 1. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL
- 2. OWNER, OR ARCHITECT/STRUCTURAL ENGINEER OF RECORD ACTING AS THE OWNER'S AGENT, SHALL DIRECTLY EMPLOY AND PAY FOR SERVICES OF THE SPECIAL INSPECTORS TO PERFORM REQUIRED SPECIAL INSPECTIONS.





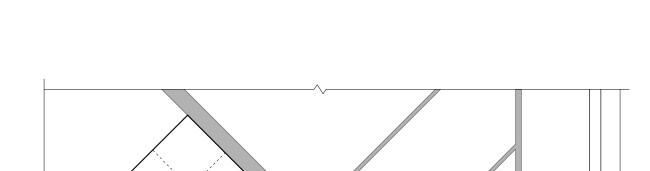
(#) FIRST FLOOR DEMO PLAN KEYNOTES

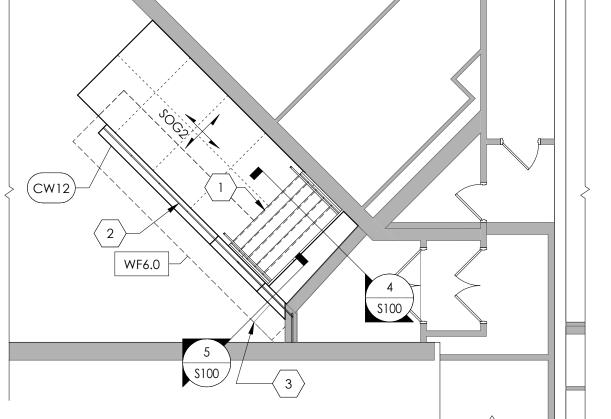
1 REMOVE EXISTING CONCRETE WALL IN ITS ENTIRETY. 2 REMOVE EXISTING CONCRETE STAIRS AND RAILING IN ITS ENTIRETY.

1. SEE CIVIL DRAWINGS FOR FINISH FLOOR REFERENCE ELEVATION.

- 3 REMOVE EXISTING CONCRETE SLAB IN ITS ENTIRETY.
- 4 REMOVE EXISTING CHAIN LINK FENCE IN ITS ENTIRETY.
- 5 EXISITING CONCRETE WALL TO REMAIN

1/8" = 1'-0"





REPLACE FENCE IN-KIND

#4 DOWEL @ 12" OC

CONC WALL REINF,

CONC WALL, SEE PLAN -

SEE SCHED -

FIRST FLOOR/FOUNDATION PLAN NOTES

- 2. TOP OF FOOTING IS (4' 0") BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED ON PLAN AS (-X' X") RELATIVE TO TOP OF FINISHED FLOOR REFERENCE ELEVATION. 3. COORDINATE LOCATING DIMENSIONS WITH ARCH.
- 4. COORDINATE WITH CIVIL, ARCH AND MEP DRAWINGS ON ANY REQUIRED PENETRATIONS THROUGH FOUNDATION WALLS OR FOOTINGS.

(#) FIRST FLOOR PLAN KEYNOTES

- 1 REPLACE CONC STAIRS AND RAILING IN-KIND. 2 REPLACE CHAIN LINK FENCE IN-KIND.
- 3 DOWEL LONGINTUDINAL RETAINING WALL FOOTING REINF INTO (E) WALL FOOTING, MIN EMBED OF 8".

FOUNDATION LEGEND

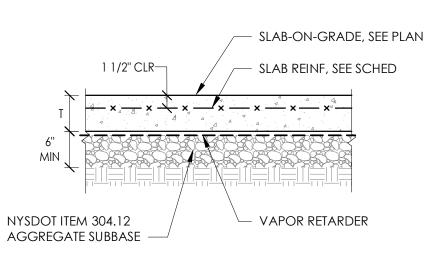
FLOOR CONSTRUCTION, SEE PLAN

STD HOOK, TYP

WALL FOOTING, SEE PLAN

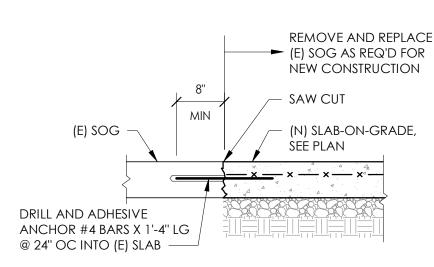
WALL FOOTING REINF, SEE SCHED

CW# - DENOTES CONCRETE WALL MARK (SEE FOUNDATION WALL AND/OR WALL SCHEDULE) WF# WF# - DENOTES WALL FOOTING MARK (SEE WALL FOOTING SCHEDULE) #' - #" - DENOTES TOP OF WALL FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0"



1. SEE SLAB-ON-GRADE SCHEDULE FOR SLAB THICKNESS, T. 2. PROVIDE CHAIRS TO SUPPORT SLAB REINFORCING AT SPECIFIED ELEVATION.





1. SEE TYPICAL SLAB-ON-GRADE DETAIL, ON THIS SHEET, FOR SLAB DETAILS



CONCRETE STRENGTH AND MATERIAL SCHEDULE

STRUCTURAL ELEMENT	MIN COMPRESSIVE STRENGTH AT 28 DAYS (PSI)	MAX WATER/CEMENT RATIO	AIR CONTENT	
ALL CONCRETE	4,500	0.45	6 +/- 1.5%	
NOTES:				

WIDTH, SEE SCHED

- . PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY [rial batch or field experience methods as specified in aci 31; CONCRETE SHALL BE READY MIXED PER ASTM C94. JOBSITE MIXING SHALL NOT BE PERMITTED. MAXIMUM NOMINAL AGGREGATE SIZE IS 3/4".
- 4. SEE REINFORCED CONCRETE NOTES ON S-001 FOR ADDTIONAL REQUIREMENTS. 5. ENSURE ENTRAPPED AIR IN SLAB CONCRETE TO BE TROWEL FINISHED DOES NOT EXCEED 3%. 6. DO NOT HARD-TROWEL SLABS THAT ARE TO BE AIR-ENTRAINED. COORDINATE SLAB FINISH WITH ARCHITECTURAL AND/OR OWNER REQUIREMENTS. CARE SHALL BE TAKEN FOR FINISHING SLABS

REINFORCED CONCRETE COVER SCHEDULE

WITH AIR-ENTRAINMENT.

	STRUC	TURAL ELEMENT	MIN COVER (IN)
CAST AGAINS	Γ EARTH		3"
EXPOSED TO EARTH OR	#5 BA	RS AND SMALLER, WWF	1-1/2"
WEATHER	#6 BA	RS AND LARGER	2"
NOT EXPOSED	3S & LLS	#11 BARS AND SMALLER, WWF	3/4"
TO EARTH OR WEATHER	4 .	#14 BARS AND LARGER	1-1/2"
VVEATHER	BEAM	s and columns	1-1/2"

CONCRETE REINF SPLICE & DEVELOPMENT LENGTHS SCHEDULE

DEVELOPMENT LENGTHS (IN.)

LAP SPLICE LENGTHS (IN.)

	BAR SIZE	TEN	ISION LA	AP LENG	TH				
		TOP I	BARS	OTH	HER	СОМР.	TENSION	СОМР.	HOOKED
	CLASS	Α	В	Α	В				
	#3	18	23	14	18	12		8	7
	#4	24	31	18	24	15		9	9
	#5	30	38	23	30	19	S A LICE	12	12
	#6	35	46	27	35	23	S CLASS A LAP SPLICE	14	14
	#7	51	67	40	51	27	AS C	16	16
psi	#8	59	76	45	59	30	SAME AS ENSION L	18	18
4,500	#9	66	86	51	66	34	SAME A TENSION	21	21
H	#10	74	96	57	74	39	'	23	23
<u>5</u>	#11	82	107	64	82	43		26	26

TOP BARS ARE HORIZONTAL BARS, PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW THE BAR. 2. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED. 3. LENGTHS IN THE TABLE ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) 4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2Db AND CLEAR COVER NOT LESS THAN Db.

6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.

. VALUES IN TABLE ARE FOR NORMAL WEIGHT CONCRETE.

ADD ALTERNATE **ALT-GAC-1-01-001**

STRUCTURAL NOTES,

DESCRIPTION

PLANS, AND DETAILS

ONSTRUCTION DOCUMENT

THE FOLLOWING TABLES COMPRISES THE STRUCTURAL SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT SPECIFICATIONS FOR REQUIRED QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES AND ADDITIONAL TESTING INFORMATION.

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC Reference
I. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS AR ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACIT		-	1705.6
 VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 	H PERIODIC		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		

	AREAS OF INSPECTION & TESTING	INSPECTION OR TESTING	STANDARD	REFERENCE	
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4	
2.	REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-	
3.	INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318:17.8.2	-	
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318: 17.8.2.4	-	
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS.	PERIODIC	ACI 318:17.8.2		
5.	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10	
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8	
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9	
9.	INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-	
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-	
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-	
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND	PERIODIC	ACI 318: 26.11.2 (b)		

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

AREAS OF INSPECTION & TESTING
CAST-IN-PLACE CONCRETE - REQUIREM
SITE HAS BEEN PREPARED PROPERLY.
FILL, INSPECT SUBGRADE AND VERIFY THAT

REFERENCE

12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.

FOOTING DIMENSIONS REMARKS WIDTH DEPTH LONGITUDINAL TRANSVERSE WF6.0 6' - 0" 1' - 0" #5 BARS @ 12" OC, T&B #5 BARS @ 12" OC, T&B SEE SECTION

SLAB REINFORCING

6X6 W2.9X2.9 WWF

HORIZONTAL

VERTICAL

SEE SOG REPLACEMENT DETAIL

#3 NOSING BARS, TYP

#4 BARS @ 12" OC, EW

1/2" ISOLATION JOINT, TYP

FLOOR CONSTRUCTION,

(2) #4 BARS CONT

BEYOND, SEE PLAN

- SOG1, SEE SCHED

THICKNESS EXT SOG

(E) SOG -

(E) WATERPROOFING

REPAIR WATERPOOFING

REQUIRED PRIOR TO

NEW CONCRETE POUR

MEMBRANE AS

(E) CONC WALL

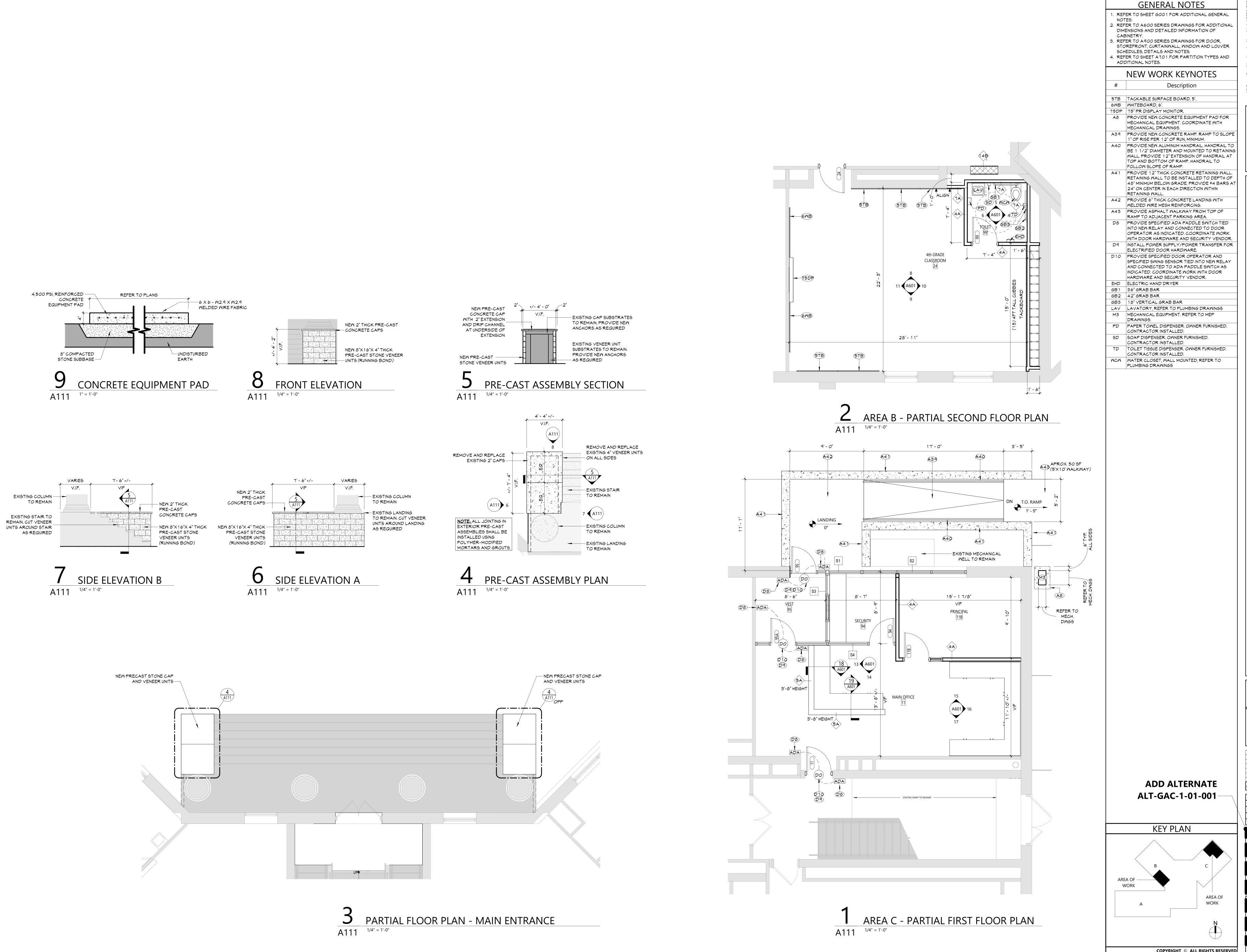
WALL REINFORCING

WALL FOOTING SCHEDUL

AB-ON-GRADE SCHEDULE	

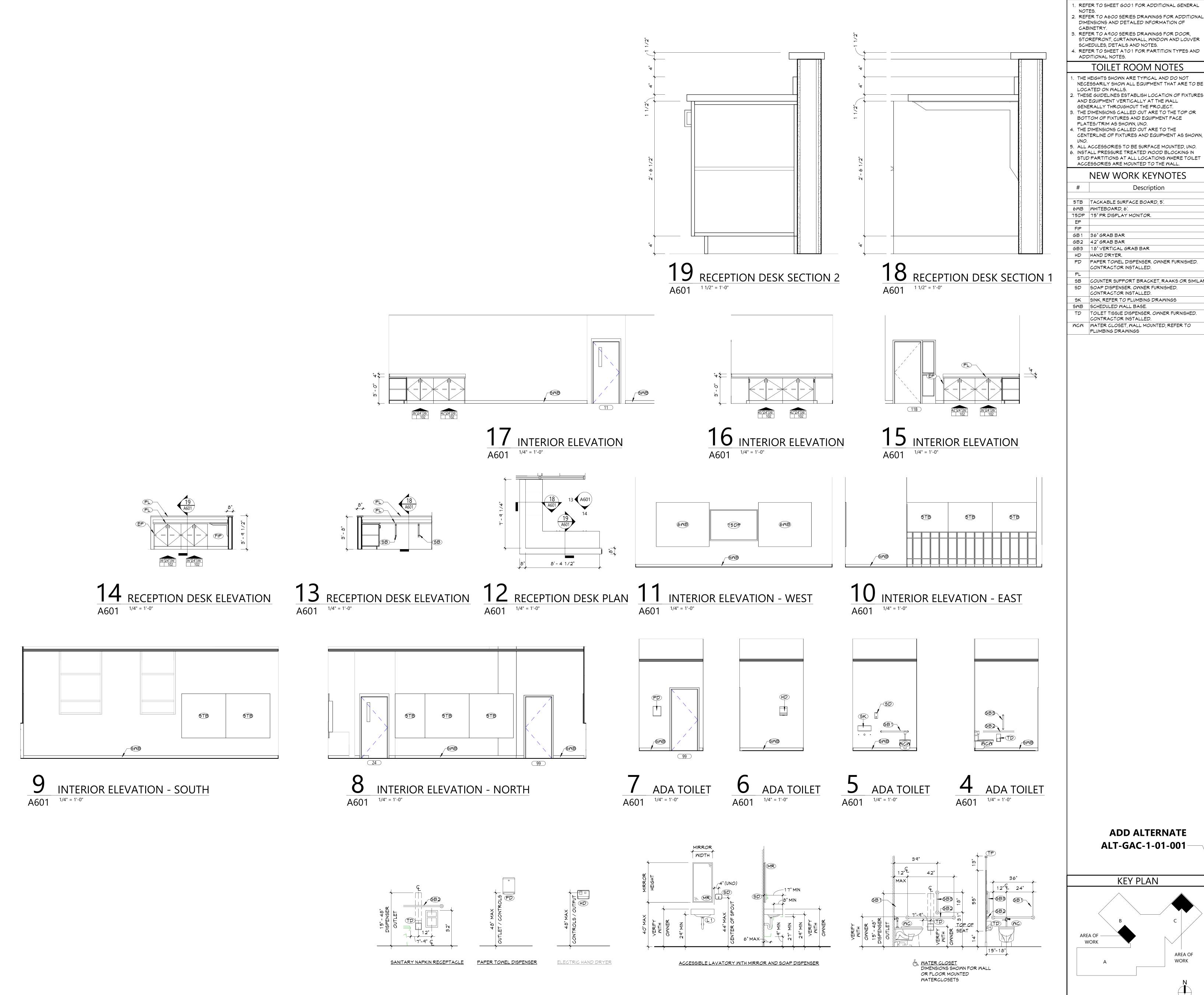
CONC FOUNDATION WALL

	EVE CO O	411	()//)4/0 0)/0 0 14/14/5			
SOG2	EXT SOG	4"	6X6 W2.9X2.9 WWF	-		
			•			
CONCRETE WALL SCHEDULE						
CONTRIL	WALL SCHEDOLL					



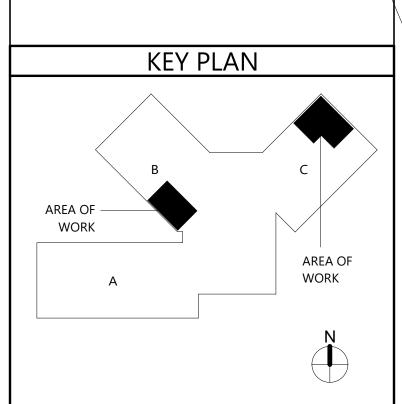
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NEW WORK PLANS - FIRST AND SECOND



VALLEY CENTRAL SCHO WALDEN ELEMENTAR 2023 CAPITAL PROJECT

ADD ALTERNATE ALT-GAC-1-01-001



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2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF

3. REFER TO A 900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER

SCHEDULES, DETAILS AND NOTES. REFER TO SHEET A 701 FOR PARTITION TYPES AND

GENERAL NOTES

TOILET ROOM NOTES

THE HEIGHTS SHOWN ARE TYPICAL AND DO NOT NECESSARILY SHOW ALL EQUIPMENT THAT ARE TO BE LOCATED ON WALLS. THESE GUIDELINES ESTABLISH LOCATION OF FIXTURES AND EQUIPMENT VERTICALLY AT THE WALL

3. THE DIMENSIONS CALLED OUT ARE TO THE TOP OR BOTTOM OF FIXTURES AND EQUIPMENT FACE PLATES/TRIM AS SHOWN, UNO. 4. THE DIMENSIONS CALLED OUT ARE TO THE

5. ALL ACCESSORIES TO BE SURFACE MOUNTED, UNO. 6. INSTALL PRESSURE TREATED WOOD BLOCKING IN STUD PARTITIONS AT ALL LOCATIONS WHERE TOILET ACCESSORIES ARE MOUNTED TO THE WALL.

NEW WORK KEYNOTES Description 5TB TACKABLE SURFACE BOARD, 5'. 6MB WHITEBOARD, 6'. 75DP 75" PR DISPLAY MONITOR.

GB2 42" GRAB BAR GB3 18" VERTICAL GRAB BAR HD HAND DRYER. PD PAPER TOWEL DISPENSER. OWNER FURNISHED. CONTRACTOR INSTALLED.

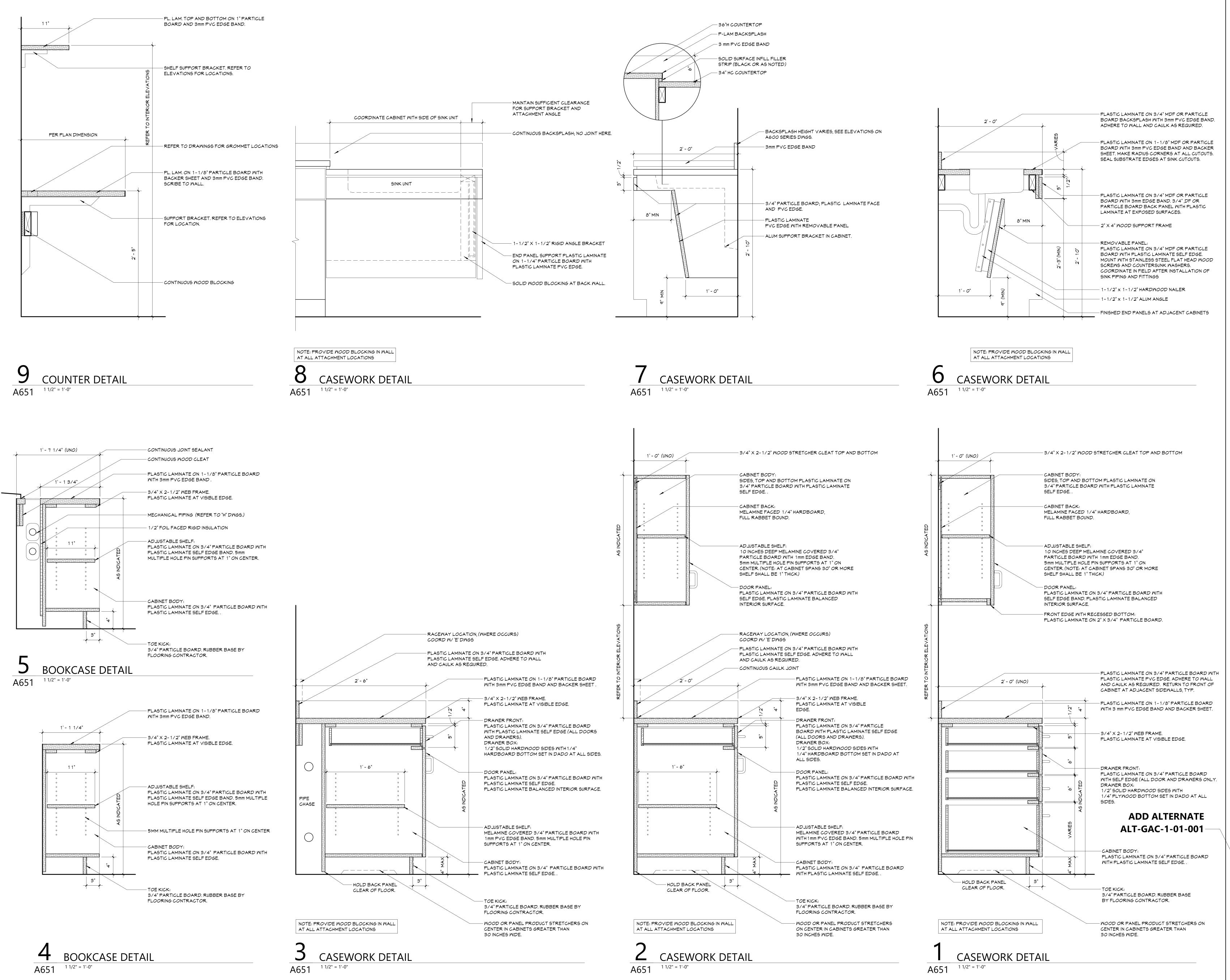
SB COUNTER SUPPORT BRACKET, RAAKS OR SIMILAR. SD SOAP DISPENSER. OWNER FURNISHED. CONTRACTOR INSTALLED. SK SINK, REFER TO PLUMBING DRAWINGS

SMB SCHEDULED MALL BASE. TD TOILET TISSUE DISPENSER. OWNER FURNISHED. CONTRACTOR INSTALLED. MCM MATER CLOSET, MALL MOUNTED, REFER TO

44-13-01-06-0-009-02 **ELEVATIONS**

SECTIONS

CONSTRUCTION DOCUMENTS



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AFF 1

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CSArch Proj. #: 187-2302.0
Issued for Bid: 10/18/2Sheet Title

CASEWORK

CASEWORK DETAILS

WES A651

CONSTRUCTION DOCUMENTS

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900

DESCRIPTION **PARTITION TYPES**

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SIZE STC RATING FIRE RATING SIDE ONE FINISH TEST DESIGN SIDE TWO FINISH

PARTITION NOTES

GENERAL PARTITION NOTES THIS PARTITION TYPE SCHEDULE IS GENERIC IN

NATURE. NOT ALL OF THE PARTITION TYPES ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS OF PARTITION TYPES USED. ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY PARTITION SHOWN ON

BE USED AT SUCH LOCATIONS. <u>FIRE RATED SYSTEMS</u>

PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR/ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY

RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY. ANY PRODUCT THAT EMITS ODOR MUST MEET THE REQUIREMENTS OF THE NEW YORK STATE

CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR

ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION

CMU WALL SYSTEMS ALL PLAN DIMENSIONS ARE TO FACE OF CMU, UNLESS NOTED OTHERWISE. PROVIDE HORIZONTAL JOINT REINFORCEMENT

CORES AT THE FOLLOWING LOCATIONS: A. PARTITION INTERSECTIONS (REINFORCE FULL B. DOOR OPENINGS (REINFORCE FULL HEIGHT OF

MINDOM HEAD) D. WALL ENDS (REINFORCE FULL HEIGHT) SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REINFORCING AND ANCHORING

REQUIREMENTS. PROVIDE BULLNOSE MASONRY UNITS ON ALL OUTSIDE CORNERS OF WALLS UNLESS NOTED OTHERWISE. 1ETAL STUD PART<u>ITION AND CEILING SYSTEMS</u>

ALL DIMENSIONS ARE TO THE FACE OF METAL STUDS UNLESS NOTED OTHERWISE. PROVIDE METAL BRACING AT THIRD POINTS AT THE INTERIOR OF METAL STUD CHASE PARTITIONS. BRACING SHALL NOT EXCEED 48" OC. PROVIDE METAL L.C. BEAD, BACKER ROD AND

PARTITIONS AND MASONRY PARTITIONS. PROVIDE ACOUSTICAL SEALANT IN THE FOLLOWING A. PERIMETER OF PARTITIONS

B. RUNNERS C. ELECTRICAL OUTLETS

D. PARTITION PENETRATIONS AND OPENINGS PROVIDE BLOCKING WITHIN PARTITIONS TO SUPPORT PARTITION MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES. COORDINATE WITH CABINETRY DETAILS AND MEP DRAWINGS.

ALL INTERIOR METAL STUDS AND METAL FURRING AT PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED

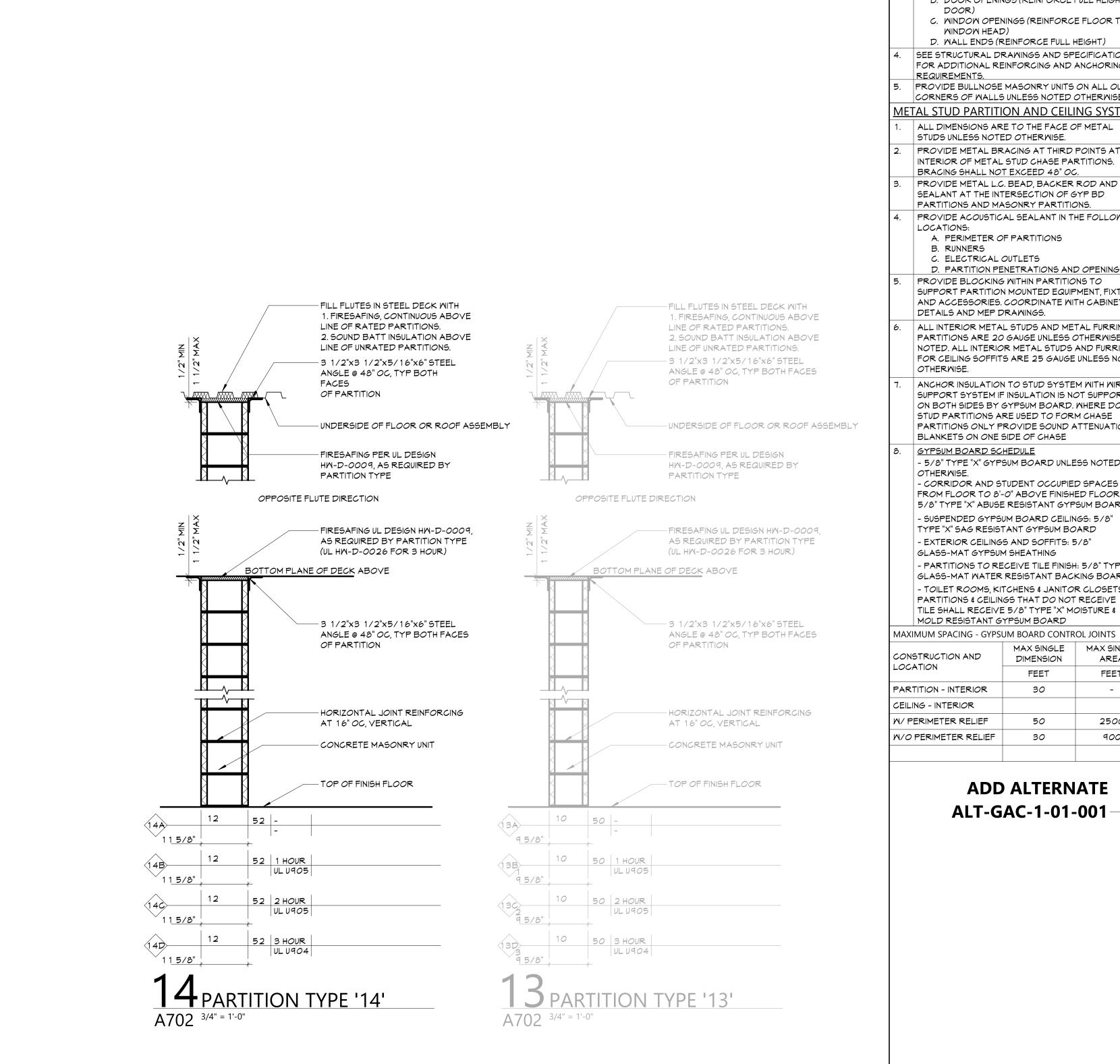
ANCHOR INSULATION TO STUD SYSTEM WITH WIRE SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE PARTITIONS ONLY PROVIDE SOUND ATTENUATION BLANKETS ON ONE SIDE OF CHASE

GYPSUM BOARD SCHEDULE - 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED - CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR: 5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD - SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE "X" SAG RESISTANT GYPSUM BOARD - EXTERIOR CEILINGS AND SOFFITS: 5/8"

GLASS-MAT GYPSUM SHEATHING - PARTITIONS TO RECEIVE TILE FINISH: 5/8" TYPE "X" GLASS-MAT WATER RESISTANT BACKING BOARD - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE &

MOLD RESISTANT GYPSUM BOARD MAXIMUM SPACING - GYPSUM BOARD CONTROL JOINTS MAX SINGLE MAX SINGLE CONSTRUCTION AND DIMENSION PARTITION - INTERIOR M/ PERIMETER RELIEF 5*0*

A701-Partition Types





PARTITION NOTES

| SIZE | STC RATING FIRE RATING SIDE ONE FINISH

THIS PARTITION TYPE SCHEDULE IS GENERIC IN NATURE. NOT ALL OF THE PARTITION TYPES

BID. THE CONTRACTOR SHALL NOTIFY THE

ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS

ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S

ARCHITECT IN MRITING OF ANY PARTITION SHOWN ON THE FLOOR PLANS WITHOUT A PARTITION TAG. THE ARCHITECT WILL DETERMINE THE PARTITION TYPE TO

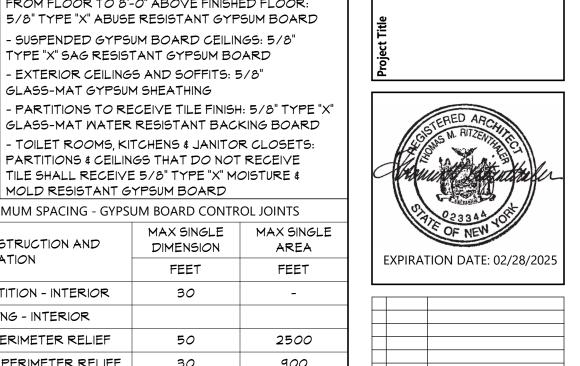
TEST DESIGN SIDE TWO FINISH

PARTITION TYPE NUMBER

1A FIRE RATING HOUR

GENERAL PARTITION NOTES

OF PARTITION TYPES USED.



3*0* 900 **ADD ALTERNATE** ALT-GAC-1-01-001

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AREA

FEET

25*00*

ALL INTERIOR METAL STUDS AND METAL FURRING AT

NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED

ANCHOR INSULATION TO STUD SYSTEM WITH WIRE

SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE

PARTITIONS ONLY PROVIDE SOUND ATTENUATION

- 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED

- CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR:

5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD - SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE "X" SAG RESISTANT GYPSUM BOARD

GLASS-MAT WATER RESISTANT BACKING BOARD - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE &

MAX SINGLE

DIMENSION

FEET

3*0*

5*0*

- EXTERIOR CEILINGS AND SOFFITS: 5/8"

GLASS-MAT GYPSUM SHEATHING

MOLD RESISTANT GYPSUM BOARD

BLANKETS ON ONE SIDE OF CHASE

GYPSUM BOARD SCHEDULE

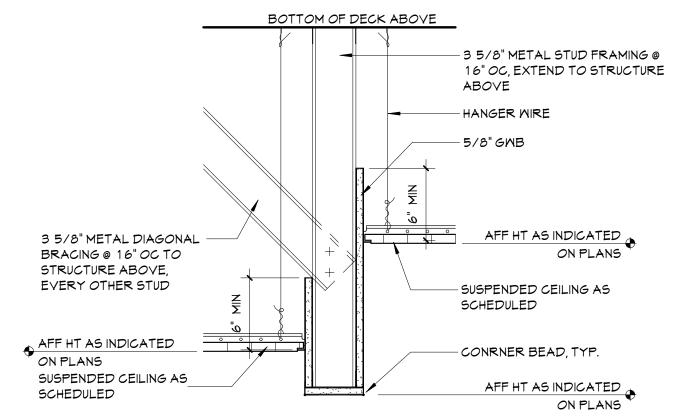
PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE

OTHERWISE.

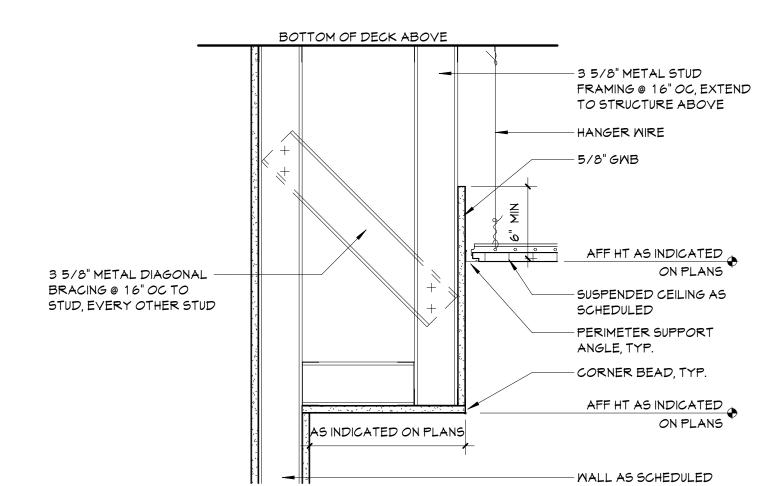
OTHERWISE.

DESCRIPTION PARTITION

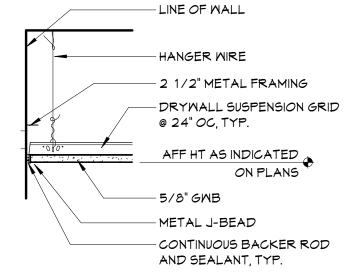
AREA B - PARTIAL FIRST FLOOR RCP



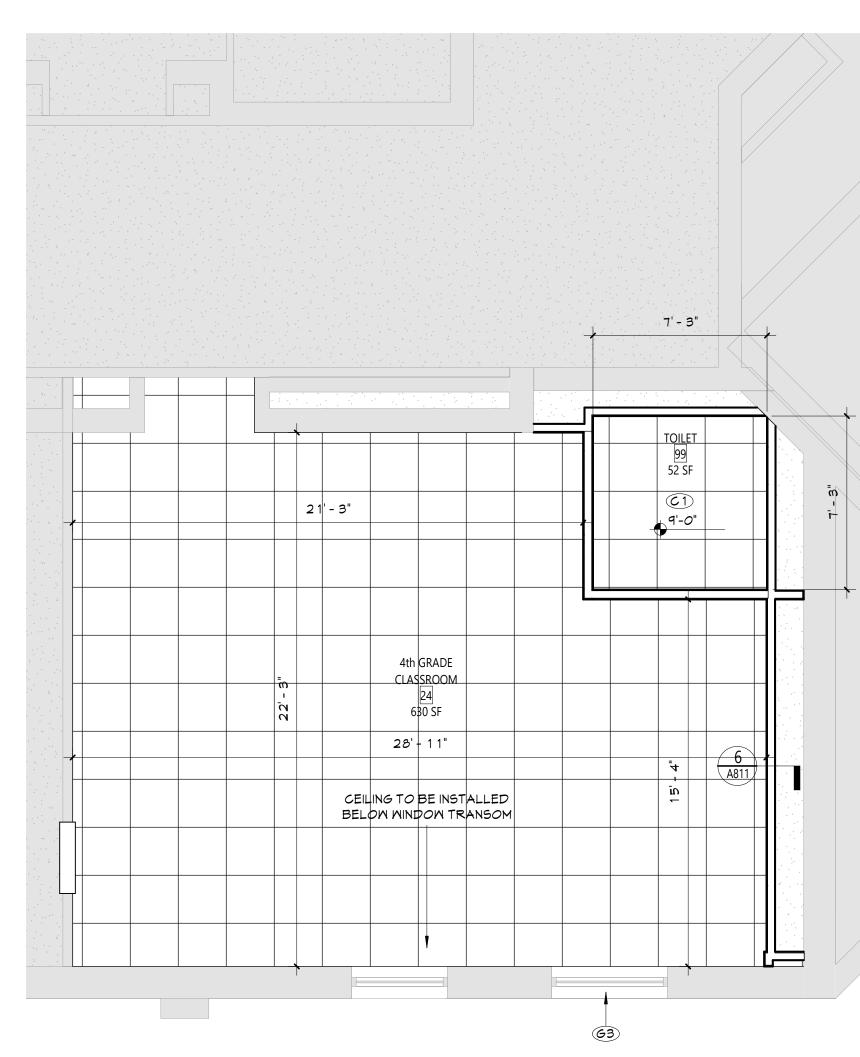
SOFFIT DETAIL 1 1/2" = 1'-0"



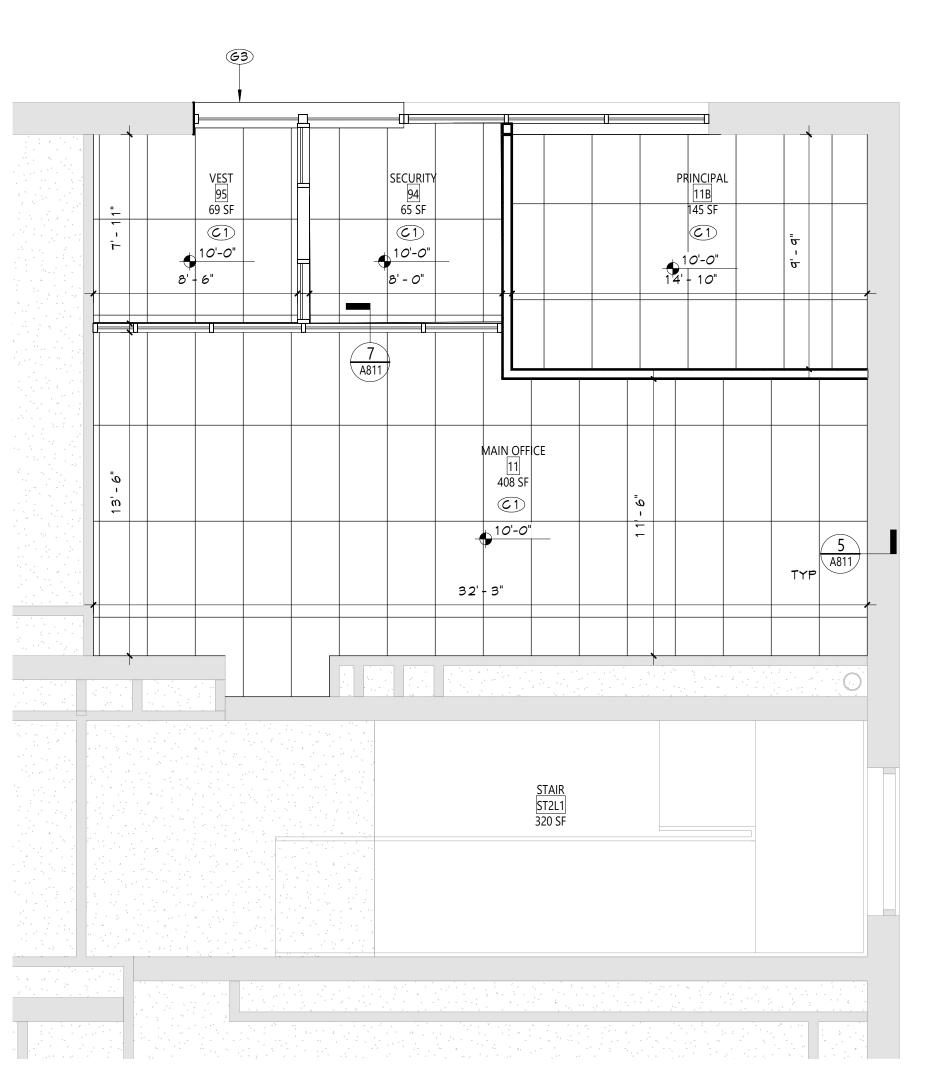
SOFFIT DETAIL 1 1/2" = 1'-0"



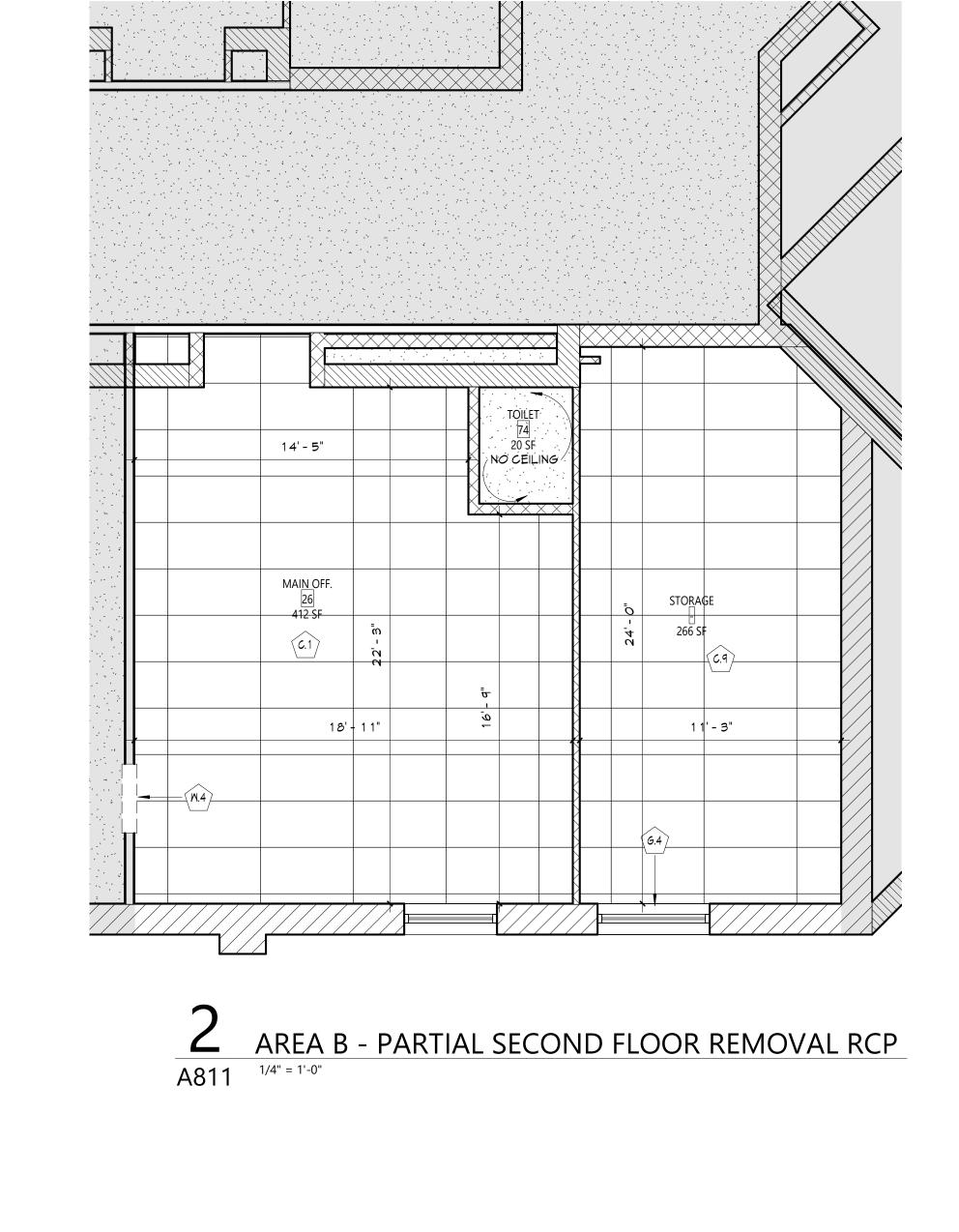
CEILING DETAIL

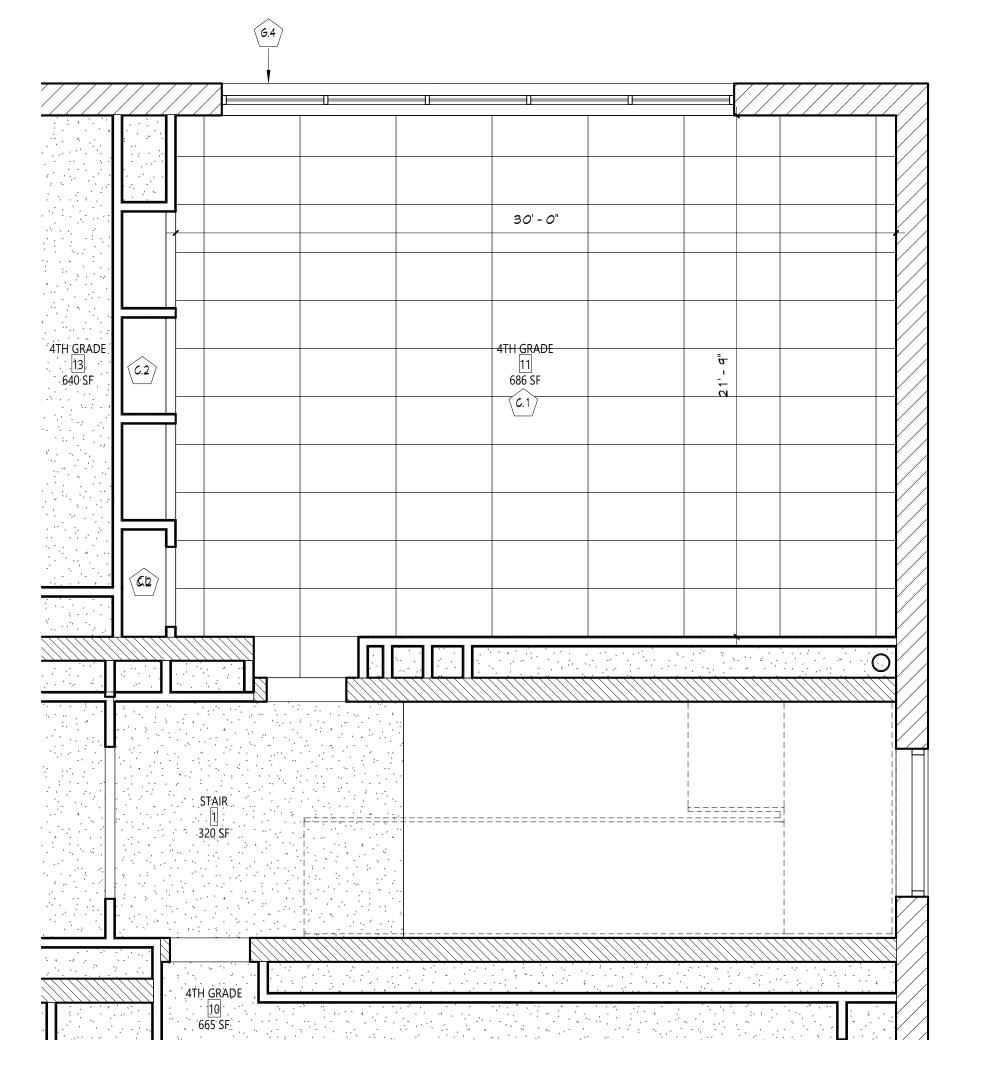


AREA B - PARTIAL SECOND FLOOR RCP A811 1/4" = 1'-0"

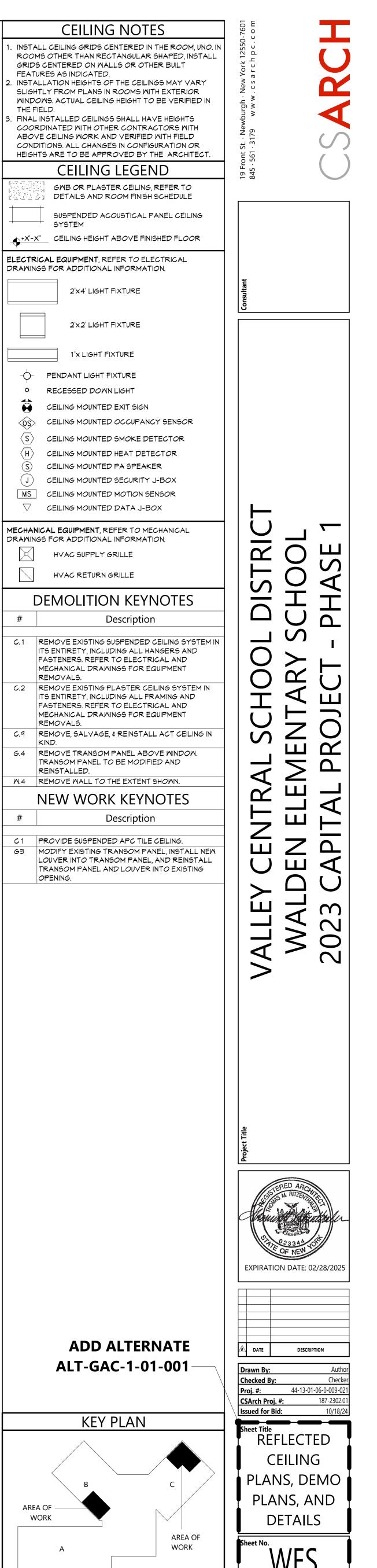


AREA C - PARTIAL FIRST FLOOR RCP

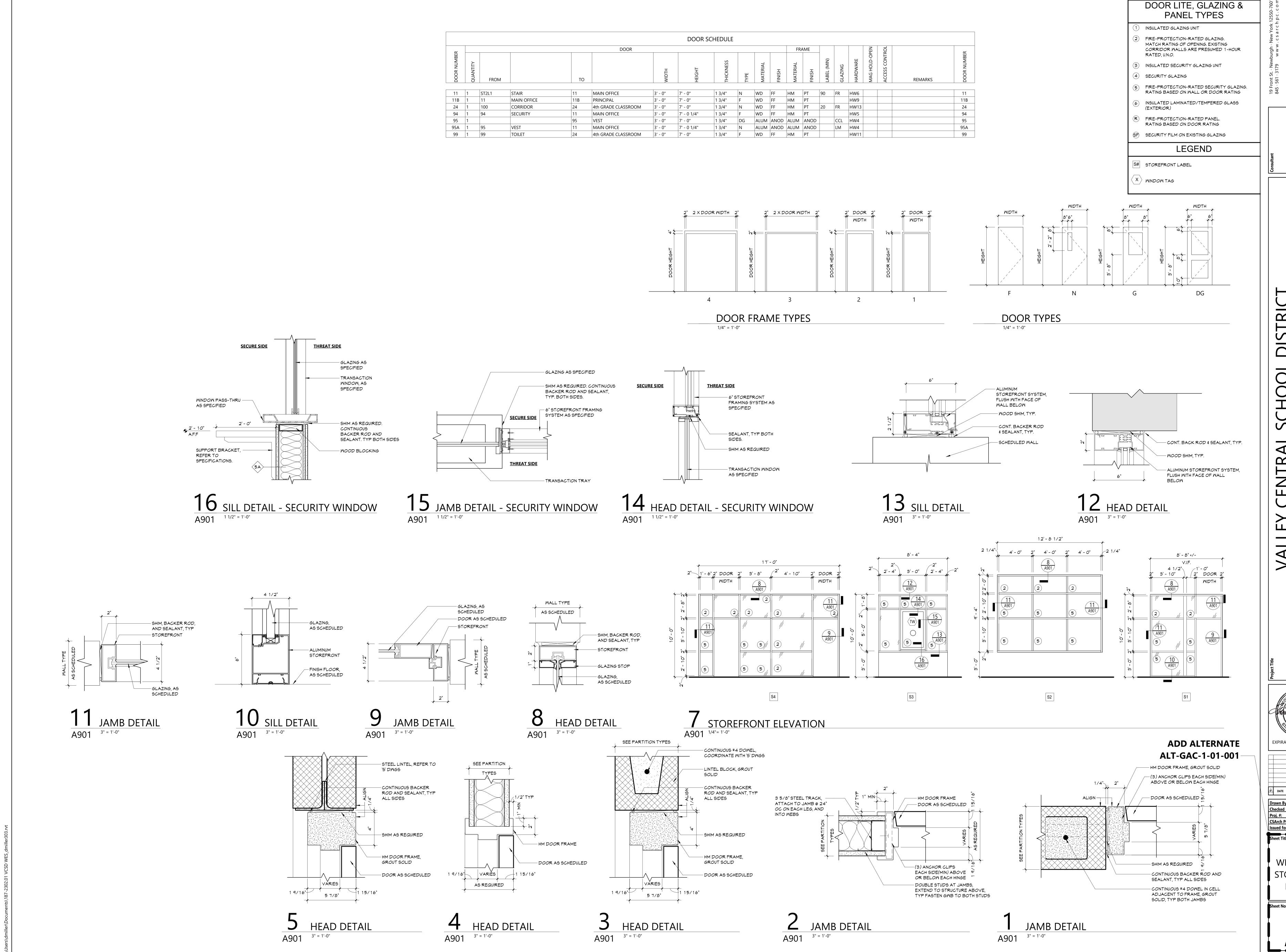




AREA C - PARTIAL FIRST FLOOR REMOVAL RCP



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О Ш

EXPIRATION DATE: 02/28/2025

DATE DESCRIPTION
 Proj. #:
 44-13-01-06-0-009-021

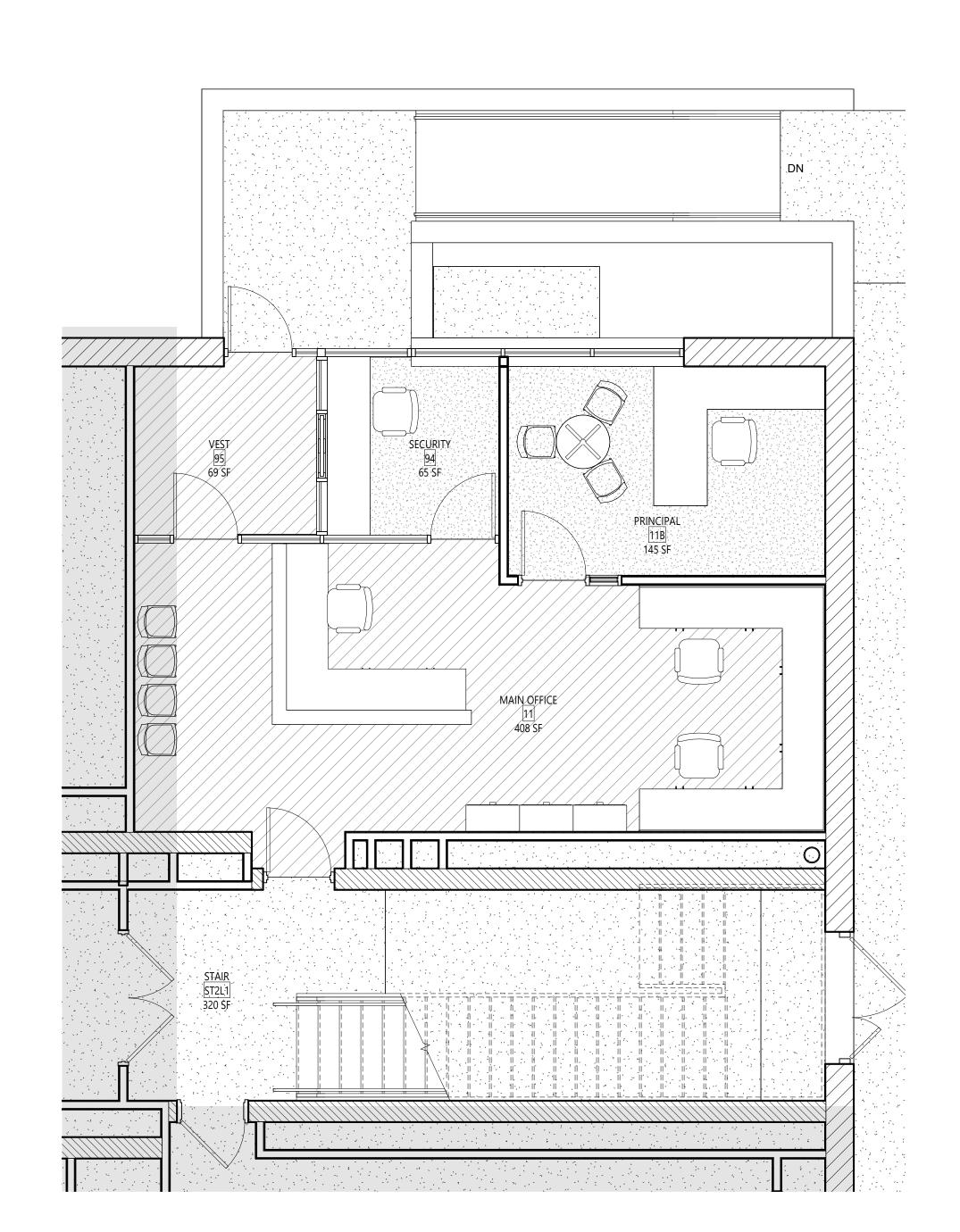
 CSArch Proj. #:
 187-2302.01
 Issued for Bid: DOOR, WINDOW, & STOREFRONT

DETAILS

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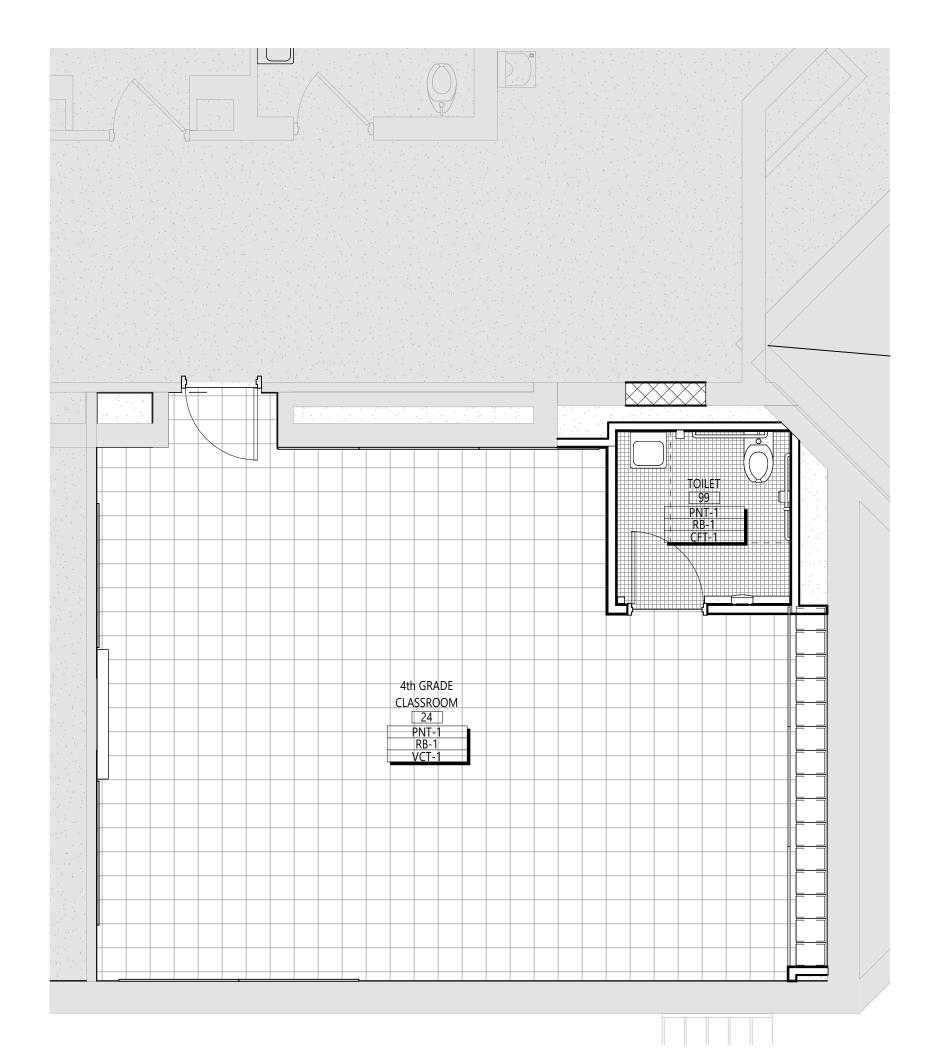
ROOM FINISH SCHEDULE								
ROOM			FLOC)R				
NUMBER	ROOM NAME	Room Style	FINISH	BASE	Wall Finish	Accent_Wall	CEILING	Comments
11	MAIN OFFICE	Main Office	LVT-1, CPT-1	RB-1	PNT-1			
11B	PRINCIPAL	Office	CPT-1	RB-1	PNT-1			
24	4th GRADE CLASSROOM	Classroom	VCT-1	RB-1	PNT-1			
94	SECURITY	Office	CPT-1	RB-1	PNT-1			
95	VEST	Vest	LVT-1	RB-1	PNT-1			
99	TOILET	Toilet	CFT-1	RB-1	PNT-1			

			MATERIALS LEGEND			
MATERIAL	MANUFACTURER	MODEL	COLOR #/NAME	Material: URL	SIZE	NOTE
CARPET TILI	≣					
CPT-1	INTERFACE	STEP REPEAT	104940 IRON		24" x 24"	TYP. FLOOR
CERAMIC FL	OOR TILE					
CFT-1	DALTILE	KEYSTONES			2" X 2"	TYP. FLOOR
CERAMIC WA	ALL BASE					
CTB-1	DALTILE	COLOR WHEEL CLASSIC			4'	
CERAMIC MA	ALL TILE					
CMT-1	DALTILE	COLOR WHEEL LINEAR				GENERAL WALL TYLE
_UXURY VIN`	/L TILE					
_VT-1	INTERFACE	BRUSHED LINES			9" X 3 9"	TYP. FLOOR
PAINT						
PNT-1	SHERMIN MILLIAMS	EGG-SHELL	SM 7064 PASSIVE			GENERAL WALL PAINT
PNT-2	SHERMIN MILLIAMS	SEMI-GLOSS				HM DOOR PAINT
PLASTIC LAI	MINATE					
PLAM-1	WILSONART	LAMINATE				CASEMORK
RUBBER BA	SE					
₹B-1	ROPPE	BASEMORKS			4"	TYP. BASE
VINVYL CON	1POSITION TILE					

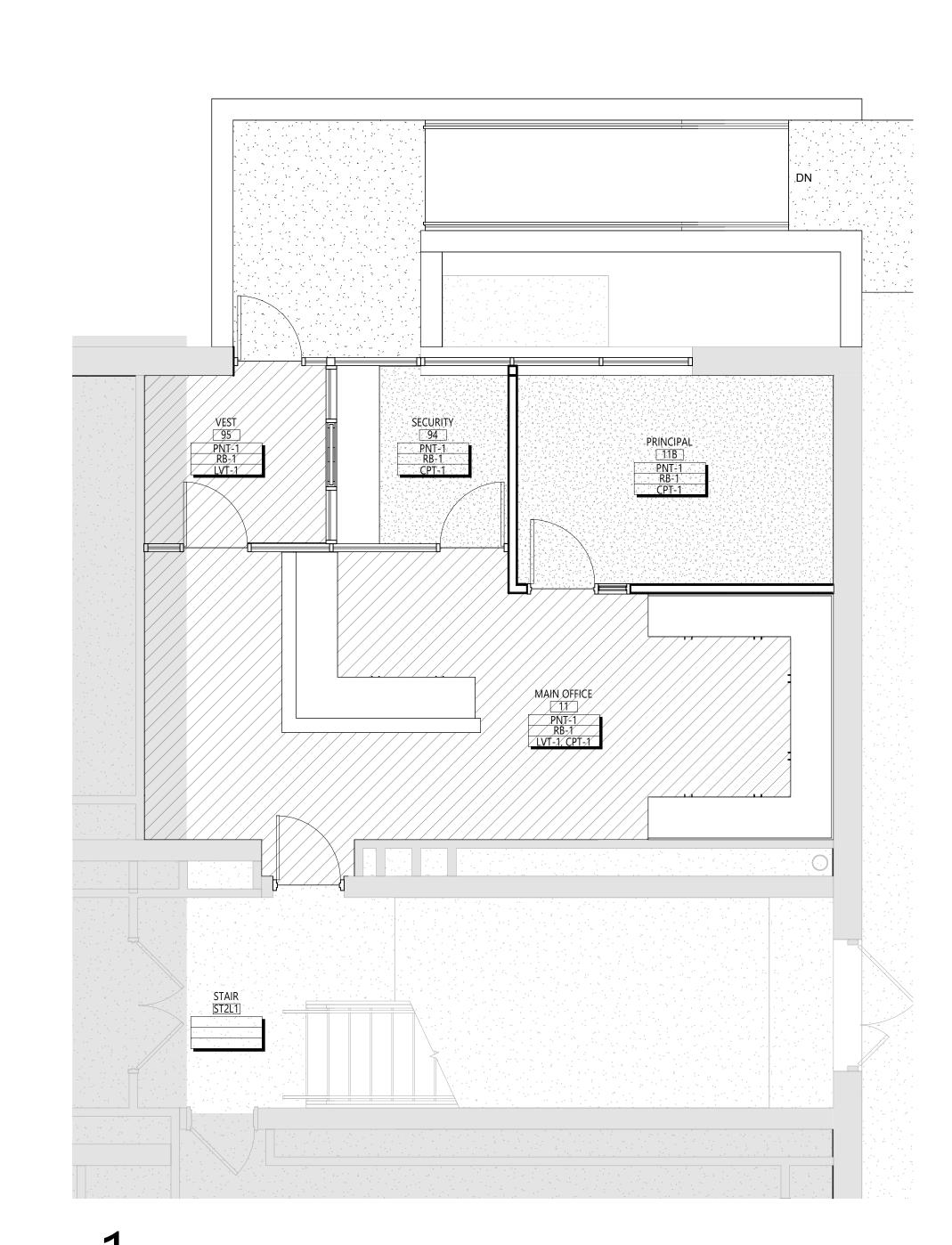


ENLARGED FURNITURE PLAN - FIRST FLOOR - MAIN OFFICE (FOR REFERENCE ONLY)

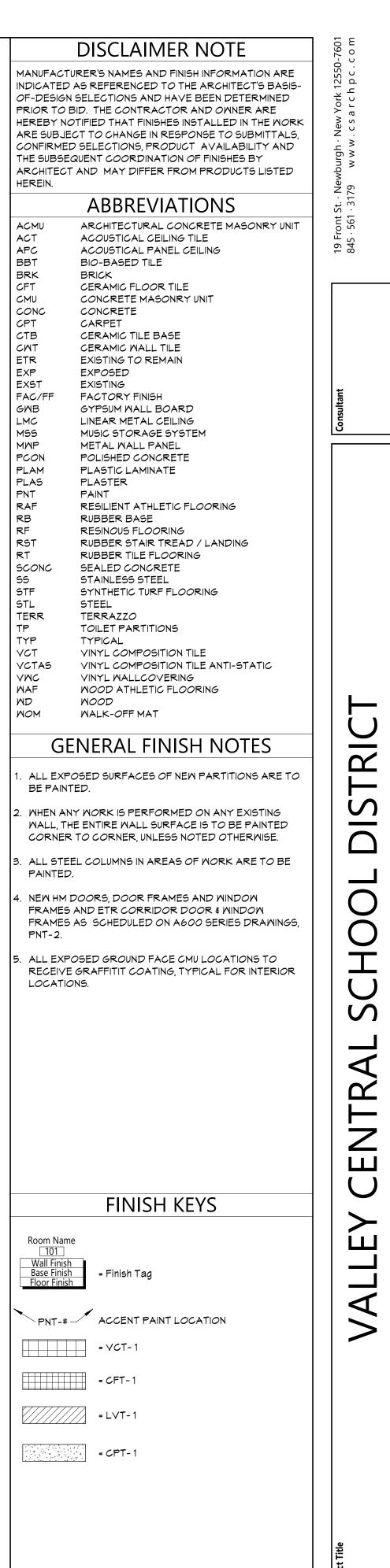
AF111 1/4" = 1'-0"



2 ENLARGED FINISH PLAN - SECOND FLOOR - KINDERGARTEN
ΔΕ111 1/4" = 1'-0"



ENLARGED FINISH PLAN - FIRST FLOOR - MAIN OFFICE



ADD ALTERNATE

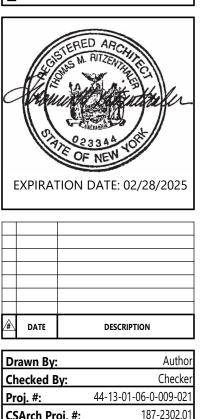
ALT-GAC-1-01-001

KEY PLAN

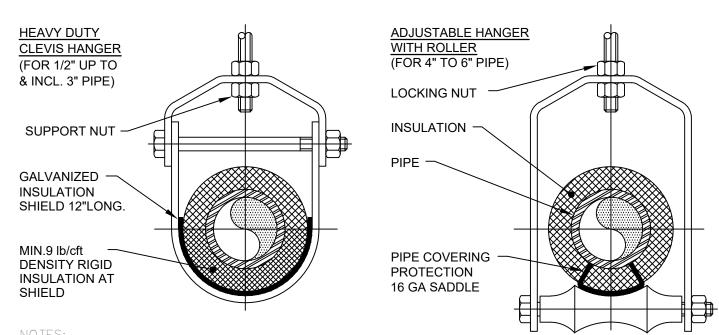
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AREA OF -

WORK



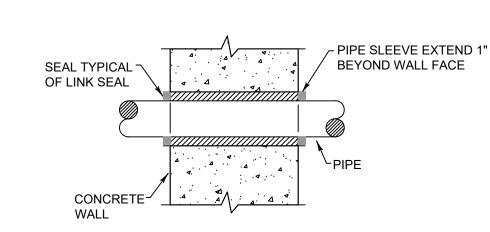
								Plu	mbing F	ixture Schedule	
FIXTURE	DESCRIPTION		PIPING	G CONNECT	ION	WATER SUPPLY	DRAINAGE FIXTURE	ADA	ELECTRONIC CONTROL	MANUFACTURER/MODEL	REMARKS
MARK	DESCRIPTION	H.W.	C.W.	WASTE	VENT	FIXTURE UNITS	UNITS	(Y/N)	(Y/N)	(OR ACCEPTABLE EQUAL)	REWARKS
1	LAVATORY	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	Y	WALL HUNG LAVATORY TYPICAL OF ZURN MODEL #Z5340; VITREOUS CHINA; FURNISH W/ BATTERY SENSOR FAUCET MODEL #Z6955-XL-S-N-LL, CONCEALED ARM CARRIERS, ADA GRID STRAINER AND ADA TRAP/SUPPLY PROTECTORS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
2	WATER CLOSET	-	1	4	2	10.0	4	Υ	Y	WATER CLOSET TYPICAL OF ZURN MODEL #Z5615 HET; WALL HUNG W/ ELONGATED FRONT RIM; 1.28 GPF; FURNISH W/ SEAT MODEL #Z5955SS-EL AND BATTERY SENSOR FLUSH VALVE MODEL# ZER6000AV-HET-CPM.	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CARRIER TYPICAL OF ZURN Z1201 OR EQUAL

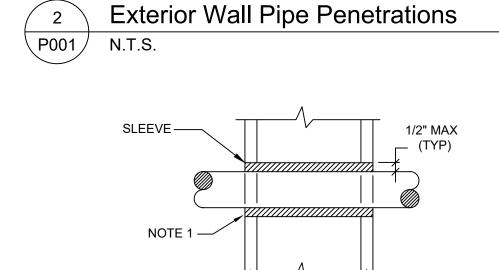


1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
 2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	1	SPACING BETWE IANGERS (FT.)	EN	MIN. ROD SIZE
	STEEL PIPE	COPPER PIPE	CPVC	(IN.)
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

Pipe Hanger Support





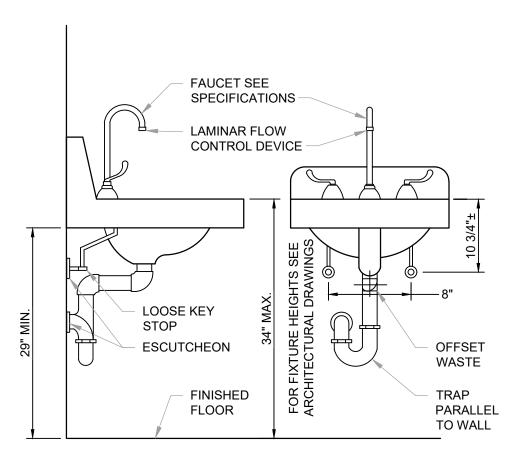
NOTES:

1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.

2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE

CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.





4 Accessible Lavatory Detail
P001 Scale: None

Plumbing Legend:

100000000000000000000000000000000000000	<u>-</u>
	DOMESTIC COLD WATER SUPPLY
· ·	110 °F DOMESTIC HOT WATER SUPPLY
	140 °F DOMESTIC HOT WATER SUPPLY
	HOT WATER RETURN
	SANITARY SEWER, ABOVE GRADE
	SANITARY SEWER, BELOW GRADE
—— GV ——— GV ———	GREASE WASTE, BELOW GRADE
	PLUMBING VENT
	STORM WATER, ABOVE GRADE

PLUMBING VENT

STORM WATER, ABOVE GRADE

STORM WATER, BELOW GRADE

NATURAL GAS PIPING

DIRECTION OF PIPE SLOPE (DOWN)

DIRECTION OF PIPE SLOPE (DOWN)

CONCENTRIC REDUCER OR INCREASER

ECCENTRIC REDUCER

TOP CONNECTION, 45° OR 90°

BOTTOM CONNECTION, 45° OR 90°

SIDE CONNECTION

| SIDE CONNECTION
| CAPPED OUTLET
| RISE OR DROP IN PIPE
| UNION
| O PIPE UP

PIPE DOWN

POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

STRAINER

HOSE BIB

SOLENOID VALVE

SOLENOID VALVE

GATE VALVE

GLOBE VALVE

CHECK VALVE

BUTTERFLY VALVE

FULL PORT BALL VALVE

PRESSURE GAUGE

PRESSURE REDUCING VALVE (PRV)

DRAIN VALVE

FLEXIBLE PIPING CONNECTION

C.O. CLEANOUT

W.C.O. WALL CLEANOUT

F.C.O. FLOOR CLEANOUT

C.O.T.G. CLEANOUT TO GRADE

DOUBLE CLEANOUT TO GRADE

PLUMBING FIXTURE MARK

D.C.O.T.G.

(P-X)

Plumbing Notes:

ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.

2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF

THE CONTRACT.

3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.

4. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN

CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
 THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.

6. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

7. WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.

8. ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.

 ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.

10. ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.

11. SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.

12. INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.

13. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.

14. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.

14.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.

14.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.

15. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.

COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.

16. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE

17. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING

18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND

SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

20. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

VALLEY CENTRAL SCHOOL DISTRI WALDEN ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE



Drawn By:

| BJK | Checked By: | BJK | BJK

Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-009-021
CSArch Proj. #: 187-2302.01
Issued for Bid: 10/18/24

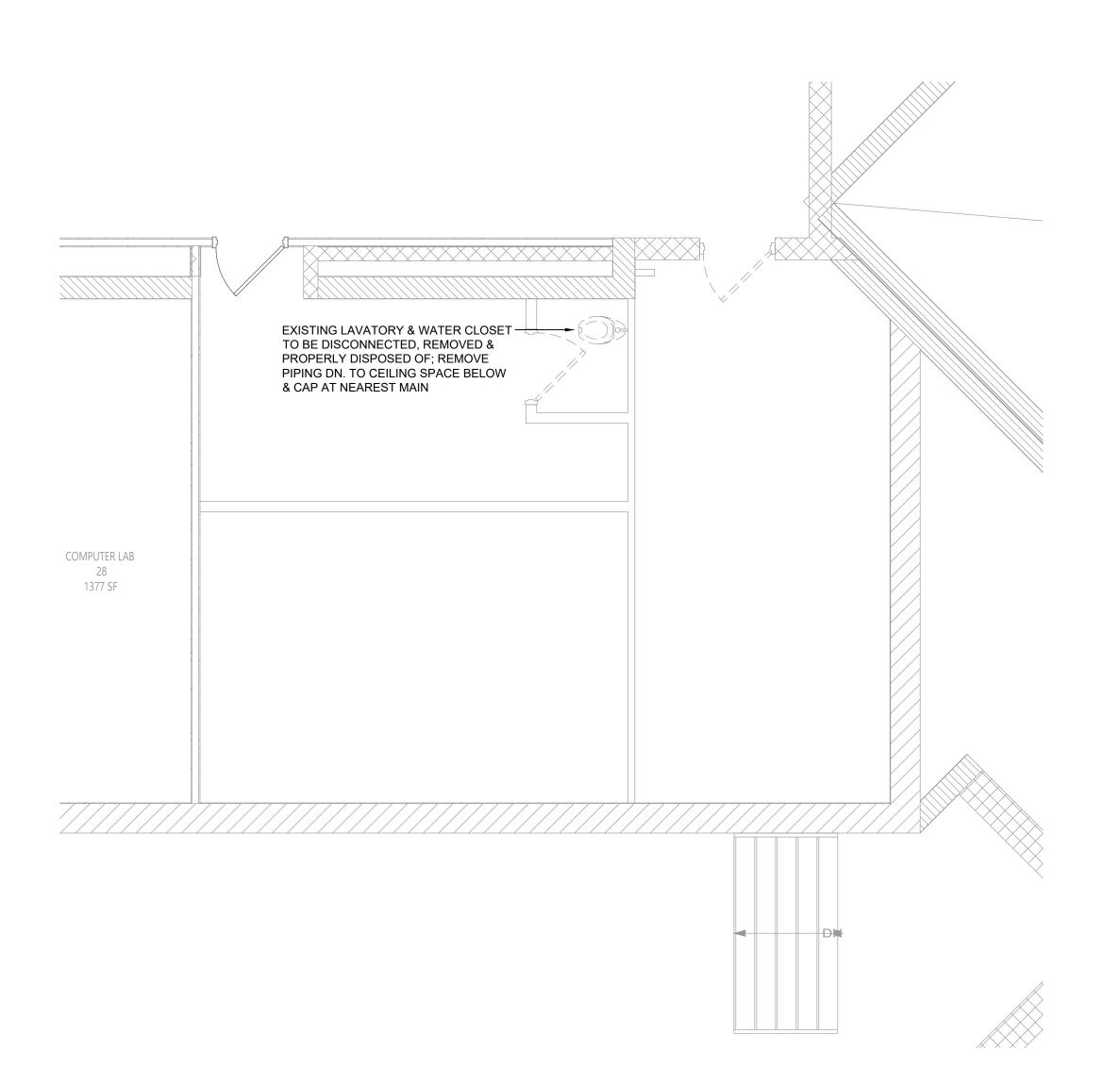
PLUMBING
NOTES,
SCHEDULE,
LEGEND &
DETAILS

WES P001

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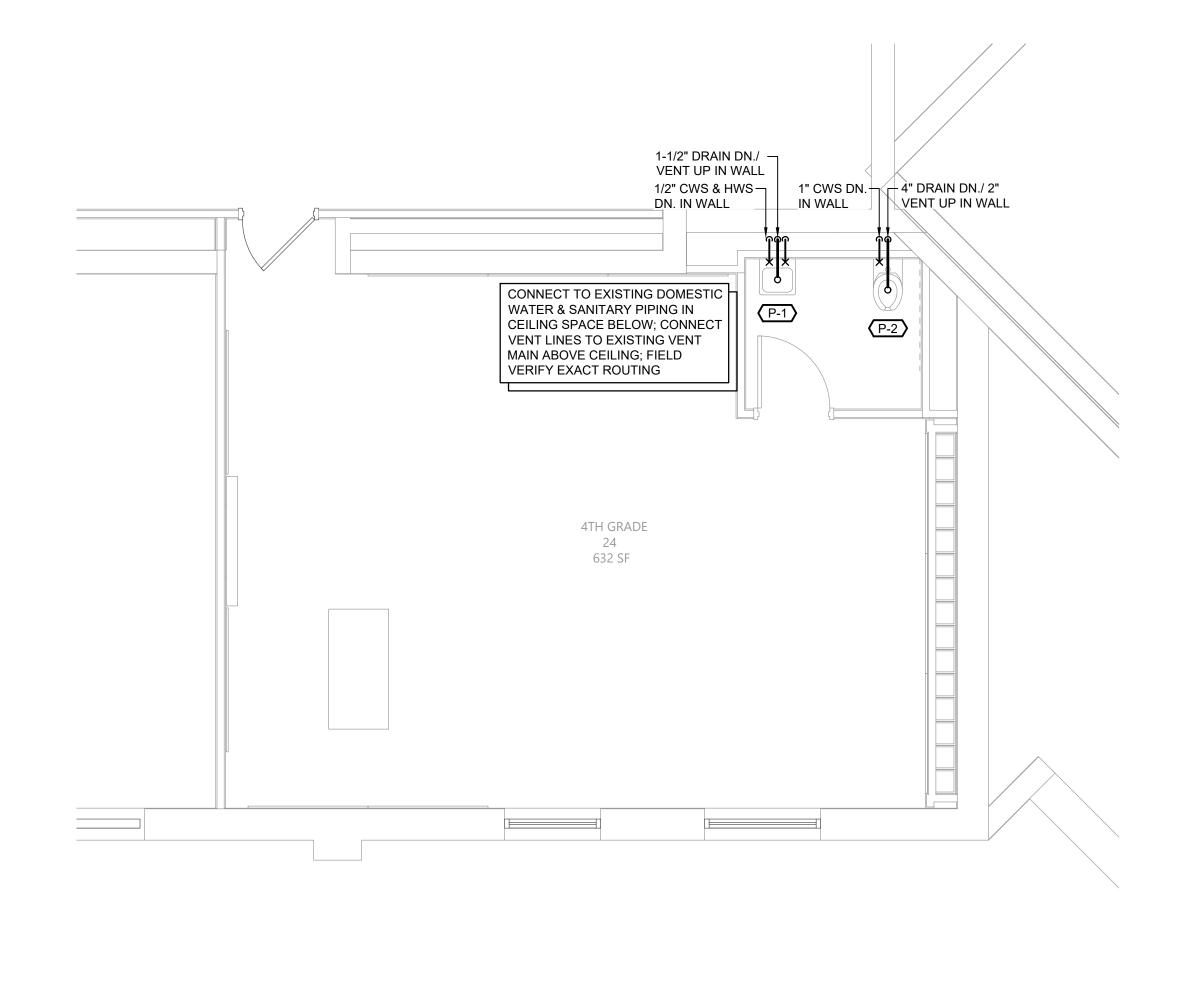
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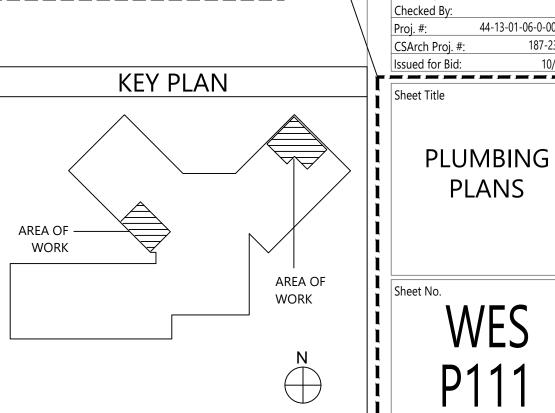
Second Floor Plumbing Demolition Plan

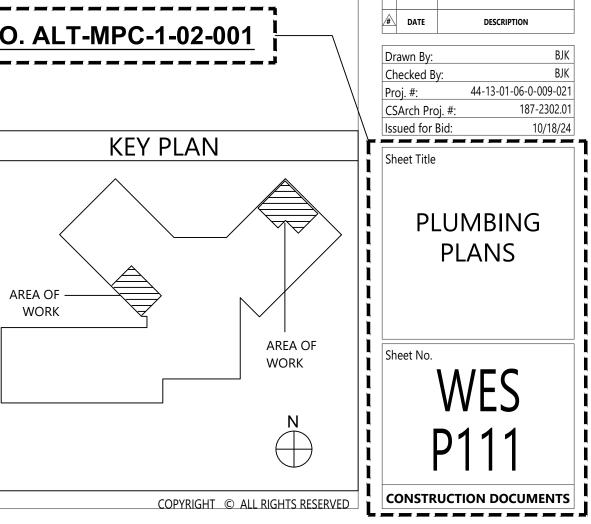
Scale: 1/4" = 1'-0"



Second Floor Plumbing Plan
P111 Scale: 1/4" = 1'-0"

ADD ALTERNATE NO. ALT-MPC-1-02-001





M M

OR OTHER ACCEPTABLE STANDARDS. WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR

4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER

5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.

6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.

7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF

8. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL NEW YORK STATE.

9. ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.

10. ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED

11. TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE

12. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S

13. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE

14. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.

OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.

SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.

ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION. 18. PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS

OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.

AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA. DOUBLE PANEL INSULATED TYPE.

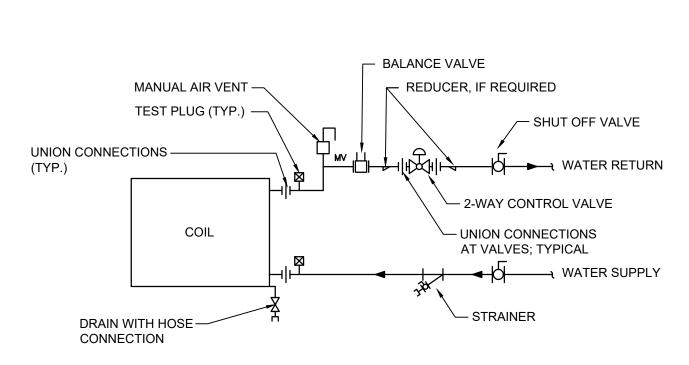
OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.

23. THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.

REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

26. CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL

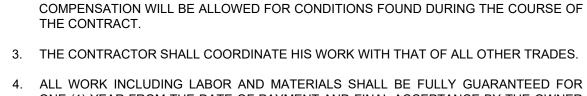
THERMOSTAT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR;



Coil Piping Connection Detail \ M001 Scale: None

ADD ALTERNATE NO. ALT-MPC-1-02-001

Mechanical Notes: 1. ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, 2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF



HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL

APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.

CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF

THROUGH MANUAL AIR VENTS.

ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.

REQUIREMENTS.

COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.

15. INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND

16. THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE

17. ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN

FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN

19. FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES

20. INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.

21. ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT

22. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND

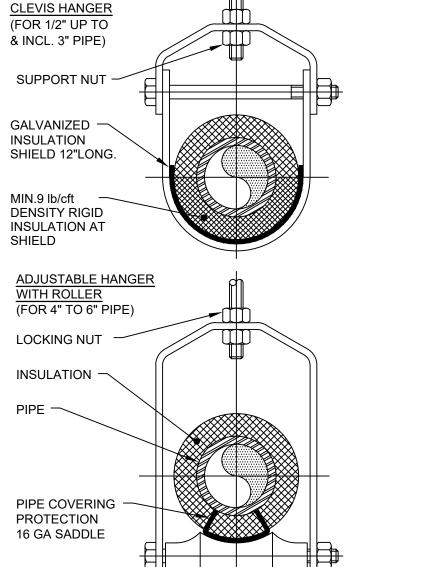
24. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

25. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS

ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

Mechanical Equipment:

MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS



Mechanical Legend:

SUPPLY DUCT (UP & DOWN)

EXHAUST DUCT (UP & DOWN)

RETURN DUCT (UP & DOWN)

SQUARE 3-WAY CEILING DIFFUSERS

SQUARE 2-WAY CEILING DIFFUSERS

SQUARE 1-WAY CEILING DIFFUSERS

LINEAR SLOT DIFFUSER

(WALL TYPE)

(WALL TYPE)

MANUAL SPLITTER DAMPER

STANDARD BRANCH SUPPLY OR

RETURN, NO SPLITTER (45° TAP)

SYMBOL IS MISSING)

X"xX"

VANED ELBOW (SHORT RADIUS)

VANED ELBOW (PROVIDE ALL SQUARE OR

RECTANGULAR ELBOWS WITH VANES EVEN IF

STANDARD RADIUS ELBOW (LONG RADIUS); INSIDE

RADIUS R TO BE EQUAL TO OR GREATER THAN W

NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)

FLEXIBLE DUCTWORK (INSULATED)

COMBINATION FIRE SMOKE DAMPER

DUCT SMOKE DETECTOR

X TERMINAL UNIT TAG
X AIRFLOW (CUBIC FEET PER MINUTE)

MANUAL VOLUME DAMPER

FIRE DAMPER

ROUND AND SQUARE 4-WAY CEILING DIFFUSERS

SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)

EXHAUST OR RETURN CEILING REGISTER OR GRILLE

EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE

EXHAUST OR RETURN REGISTER OR TOP GRILLE

VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF

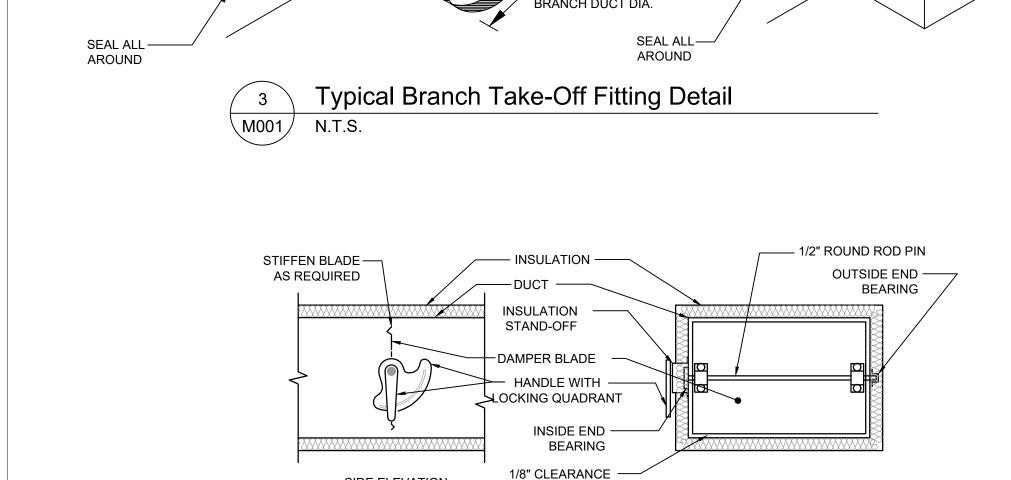
1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS. 2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD

PIPE Ø (IN.)	1	SPACING BETWE IANGERS (FT.)	EN	MIN. ROD SIZE
	STEEL PIPE	COPPER PIPE	CPVC	(IN.)
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

Pipe Hanger Support \M001/

SHIELD

PIPE -



1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION. 2. DETAIL SHOWS SINGLE-BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

ADJUSTABLE

ELBOW RINGS

MAIN DUCT

Ductwork Volume Damper Detai

SIDE ELEVATION <u>SECTION</u> ALL AROUND

THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

TRANSVERSE JOINT

PLAIN "S" SLIP

OR BAR SLIP

PLAIN "S" SLIP

OR BAR SLIP

1" POCKET LOCK

BAR SLIP OR REIN-

FORCED BAR SLIP OR

1/4" BAR SLIP, OR RE-

OR 1 1/2" POCKET LOCK

1/4" BAR SLIP. OR RE-

OR 1 1/2" POCKET LOCK

REINFORCED BAR SLIP.

OR ANGLE SLIP, ALTER-

NATE BAR SLIP, OR AN-

1 1/2" COMPANOIN AN-

LOCK, OR 1 1/2" ANGLE

SLIP OR REINFORCED

2" COMPANION ANGLE

OR 2"X2"X1/4" ANGLE

ANGLE REINFORCED

REINFORCED BAR SLIP

BAR SLIP

ANGLES TO BE

THE SAME SIZE

REINFORCING

AS REQUIRED

ANGLES

SLIP, OR 2"X2"X1/4"

POCKET LOCK OR

BAR SLIP

GLES, OR ANGLE RE-

INFORCED POCKET

GLE REINFORCED

POCKET LOCK

INFORCED BAR SLIP,

INFORCED BAR SLIP,

BAR SLIP OR

POCKET LOCK

OR POCKET LOCK

OR POCKET LOCK

HEMMED "S" SLIP OR

GREATEST DIMENSION

REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)

IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING

IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING

IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING

IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING

IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C.

IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C.

IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C.

IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C.

REINFORCE ALL SIDES OVER 60" WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0"

4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X

REINFORCE ALL SIDES OVER 84" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0"

CENTERS. SIDES 61" THRU 84" REINFORCE WITH 1 1/2"X1 1/2"X1/8" ANGLES ON

2'-0" CENTERS. SIDES 60" OR LESS NEED NO REINFORCING IF JOINTS ARE ON

4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X

REINFORCE ALL SIDES OVER 96" WITH 2"X2"X1/4" ANGLES ON 2'-0" CENTERS

REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0"

2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"X1 1/2"X1/8" AN-

GLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0"

CENTERS. REINFORCE ALL SIDES 61" THRU 84" WITH 1 1/2"X1 1/2"X1/8" ANGLES ON

REINFORCED BAR SLIP

STANDING SEAM

WITH ONE VANE

2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

Ductwork Radius Elbow Detail

GREATER

AND FASTENED AS RECOMMENDED BY SMACNA.

- 1" MIN. ON TOP

AND BOTTOM

■ EQUAL TO REQ'D

BRANCH DUCT

DIMENSIONS

1/4 BRANCH DUCT

WIDTH, BUT MIN. 4"

ANGLES TO BE

THE SAME SIZE

AS REQUIRED

REINFORCING

ANGLE SLIP

- ANGLES TO BE

THE SAME SIZE

AS REQUIRED

REINFORCING

ANGLES

ANGLES

ANGLE REINFORCED

GREATER

NOTE 1 —

∖M001 / N.T.S.

STANDING SEAM

WITH TWO VANES

CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON

FASTENED ON 8" CENTERS

FASTENED ON 8" CENTERS

FASTENED ON 8" CENTERS

FASTENED ON 8" CENTERS

1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.

1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.

ON CENTER.

HEMMED "S" SLIP

PLAIN "S" SLIP

LONG RADIUS ELBOV

N.T.S.

∖ M001 /

NONE REQUIRED

NONE REQUIRED

* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE

TRANSVERSE JOINT

POCKET LOCK

OR BAR SLIP

DRIVE SLIP OF

POCKET LOCK

OR BAR SLIP

HEMMED "S" SLIP OR

OR 1" POCKET LOCK

DRIVE SLIP 18" OR

POCKET LOCK

LESS BAR SLIP REIN-

FORCED BAR SLIP OR

1/4" BAR SLIP, OR RE-

OR 1 1/2" POCKET LOCK

1/4" BAR SLIP, OR RE-

NFORCED BAR SLIP,

OR 1 1/2" POCKET LOCK

REINFORCED BAR SLIP.

OR ANGLE SLIP, ALTER-

NATE BAR SLIP, OR AN-

1/2" COMPANOIN AN-

GLES, OR ANGLE RE-

LOCK, OR 1 1/2" ANGLE

SLIP OR REINFORCED

" COMPANOIN ANGLE,

OR 2"X2"X1/4" ANGLE

SLIP, OR 2"X2"X1/4"

POCKET LOCK OR

ANGLE REINFORCED

REINFORCED BAR SLIP

POCKET LOCK

GASKET —

COMPANION ANGLES

INFORCED POCKET

BAR SLIP

GLE REINFORCED

POCKET LOCK

INFORCED BAR SLIP,

BAR SLIP OR DRIVE SLIP

SMALLEST DIMENSION

STEEL DUCTS U.S.

STANDARD GAUGE

ALUMINUM DUCTS

B & S GAUGE

24(0.020°)

22(0.025°)

22(0.025°)

20(0.032°)

20(0.032°)

18(0.040°)

18(0.040°)

16(0.051°)

LONGITUDINAL

STANDING SEAM)

16(0.051°)

LONGITUDINAL

STANDING SEAM)

SEAM MAY BE

ACME LOCK

ANGLES TO BE

AS REQUIRED

REINFORCING

ANGLES

THE SAME SIZE

SEAM MAY BE

LONGITUDINAL

PITTSBURGH OR

PITTSBURGH OR

PITTSBURGH OR

PITTSBURGH OR

PITTSBURGH

PITTSBURGH

PITTSBURGH

PITTSBURGH

PITTSBURGH

LOCK

DRIVE SLIP

ANGLE REINFORCED POCKET LOCK

1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY

3. ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN

4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE

Ductwork Squared Elbow Detail

2. WHEN W1 IS NOT EQUAL TO W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS

LOCK

LOCK

LOCK

ACME LOCK

ACME LOCK

ACME LOCK

ACME LOCK

GREATEST DUCT

DIMENSION

12" OR LESS

13" THRU 18"

19" THRU 30"

31" THRU 42"

43" THRU 54"

55" THRU 60"

61" THRU 84"

85" THRU 96"

OVER 96"

PITTSBURGH LOCK

ALTERNATE BAR SLIP

OF W DIMENSION.

 \setminus M001/ N.T.S.

1" MIN. ON TOP

AND BOTTOM

MAIN DUCT

SUPPLY

AIRFLOW

VANES AND A 3/4" TRAILING EDGE.

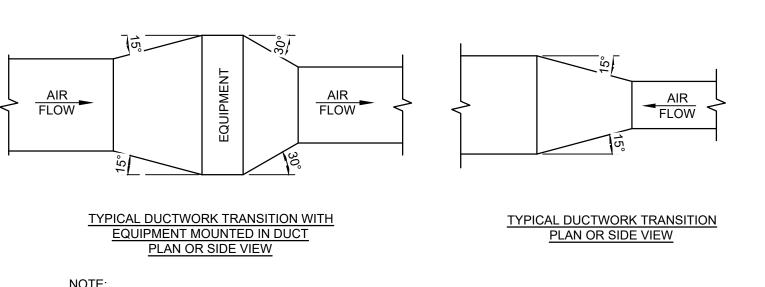
NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY **Ductwork Transition Detail** \M001/ N.T.S.

1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING

2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.

Pipe Penetrations Detail



1/2" MAX

General Symbols:

Valve Symbols:

DIRECTION OF PIPE PITCH (DOWN)

DIRECTION OF FLOW

REDUCER OR INCREASER

TOP CONNECTION, 45° OR 90°

BOTTOM CONNECTION, 45° OR 90°

INVERTED BUCKET TRAP SET INCLUDING

FLOAT & THERMOSTATIC TRAP SET INCLUDING

PIPING ACCESSORIES SEE DETAIL

PIPING ACCESSORIES SEE DETAIL

PIPING ACCESSORIES SEE DETAIL

THERMOSTATIC TRAP SET INCLUDING

ECCENTRIC REDUCER

SIDE CONNECTION

RISE OR DROP IN PIPE

CAPPED OUTLET

PIPE UP

PIPE DOWN

THERMOMETER

PRESSURE GAGE

VENTURI FLOW METER

AUTOMATIC AIR VENT

MANUAL AIR VENT

AND EXISTING WORK

CHECK VALVE

HOSE CONNECTOR

FLEXIBLE CONNECTION

MODULATING CONTROL VALVE

TWO POSITION CONTROL VALVE

PRESSURE REGULATING VALVE

PRESSURE SAFETY VALVE

WATER BALANCE DEVICE

CIRCUIT SETTER VALVE

MODULATING CONTROL BUTTERFLY VALVE

THREE-WAY MODULATING CONTROL VALVE

THREE-WAY TWO POSITION CONTROL VALVE

AUTOMATIC BALANCING CONTROL VALVE

GATE VALVE WITH GLOBE-VALVED BYPASS

CONTROL VALVE (CV) - FLOAT-OPERATED

PRESSURE REDUCING VALVE (PRV)

ANGLE GLOBE VALVE

BUTTERFLY VALVE

BALL VALVE

REFRIGERANT SIGHT GLASS

TEST PLUG (PRESSURE/TEMPERATURE)

QUICK-COUPLE HOSE CONNECTOR

POINT OF CONNECTION BETWEEN NEW

GATE VALVE - THREADED/FLANGED

GLOBE VALVE - THREADED/FLANGED

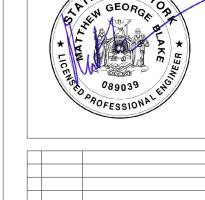
GATE VALVE WITH 3/4" HOSE ADAPTER

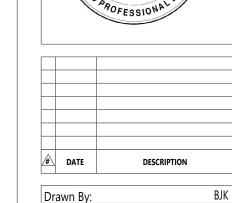
WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)

WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE

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CONSTRUCTION DOCUMENTS





MECHANICAL

NOTES,

LEGENDS,

SCHEDULES &

DETAILS

Proj. #:

CSArch Proj. #: Issued for Bid:

Sheet Title

Sheet No.

44-13-01-06-0-009-021

187-2302.01

PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.;

Key Notes:

EXISTING HOT WATER PIPING DN. ALONG WALL IN ENCLOSURE EXISTING SECTION OF EXHAUST DUCTWORK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY HANGERS, SUPPORTS, ACCESSORIES, ETC.; DISCONNECT AT

LOCATIONS SHOWN & MAINTAIN FOR CONNECTION TO

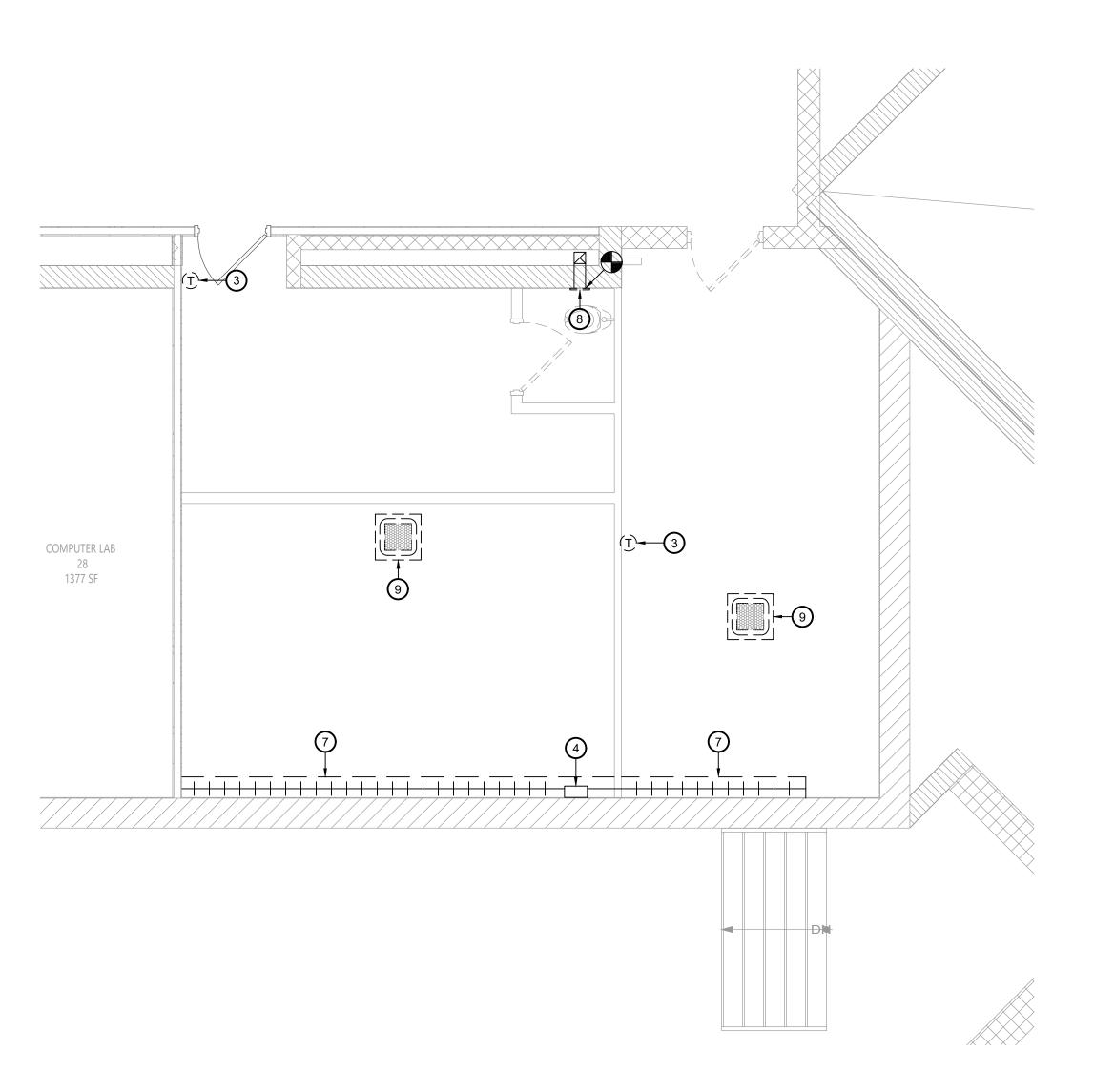
REPLACEMENT DUCTWORK

EXISTING SECTION OF EXHAUST GRILLE TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY HANGERS, SUPPORTS, ACCESSORIES, ETC.

EXISTING FINNED TUBE RADIATION TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP

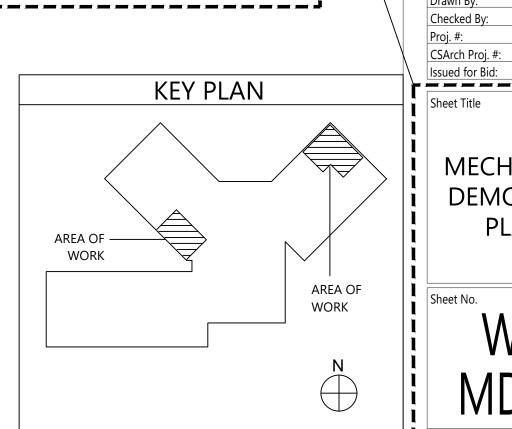
EXISTING SECTION OF EXHAUST GRILLE TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY HANGERS, SUPPORTS, ACCESSORIES, ETC. TEMPORARILY CAP EXHAUST DUCT; MAINTAIN FOR RECONNECTION TO NEW DUCTWORK

EXISTING CEILING CASSETTE & ASSOCIATED CONDENSING UNIT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY REFRIGERANT PIPING, CONDENSATE PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; RECOVER & DISPOSE OF REFRIGERANT PER EPA & DEC GUIDELINES



Second Floor Mechanical Demolition Plan

ADD ALTERNATE NO. ALT-MPC-1-02-001

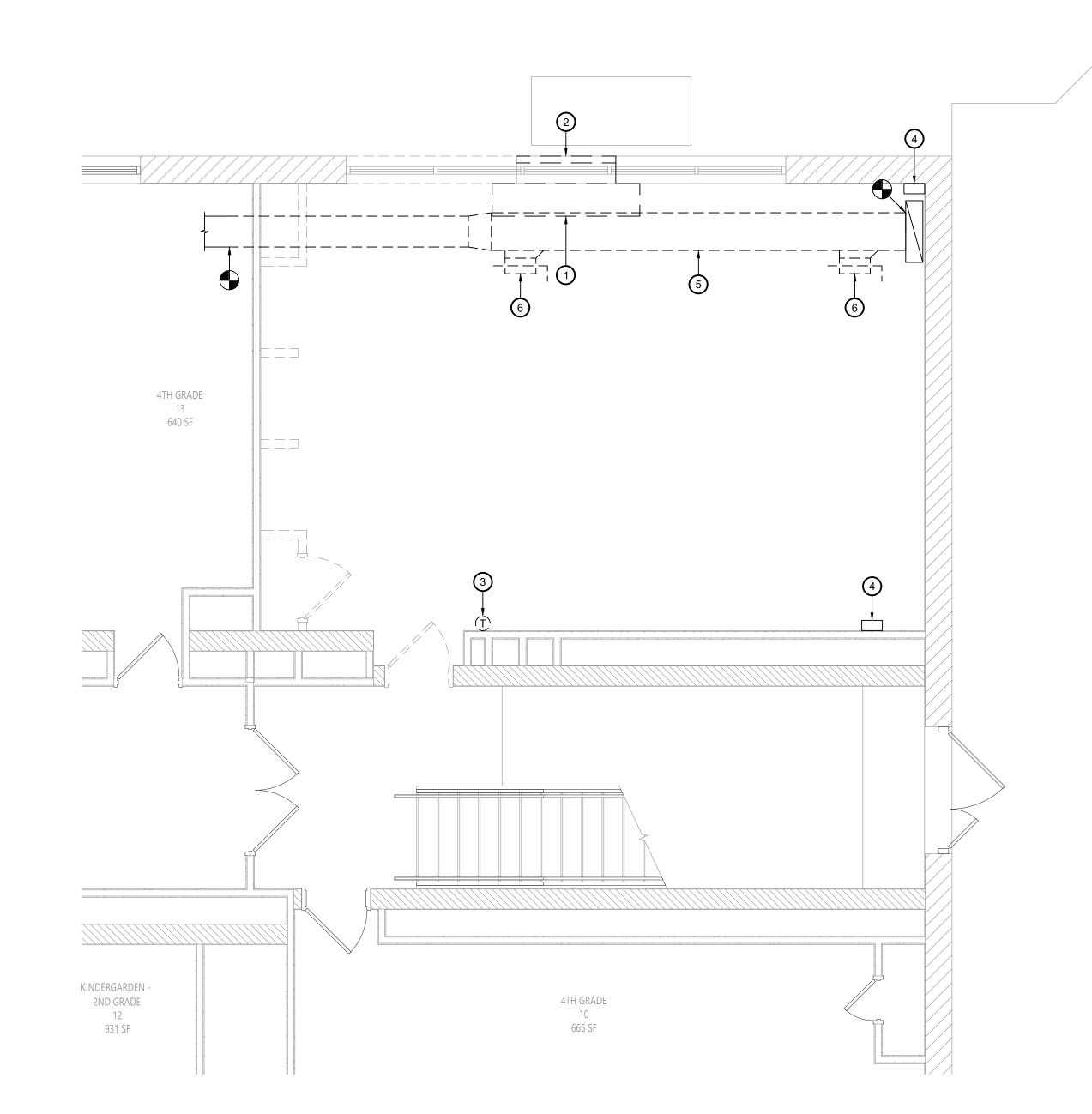


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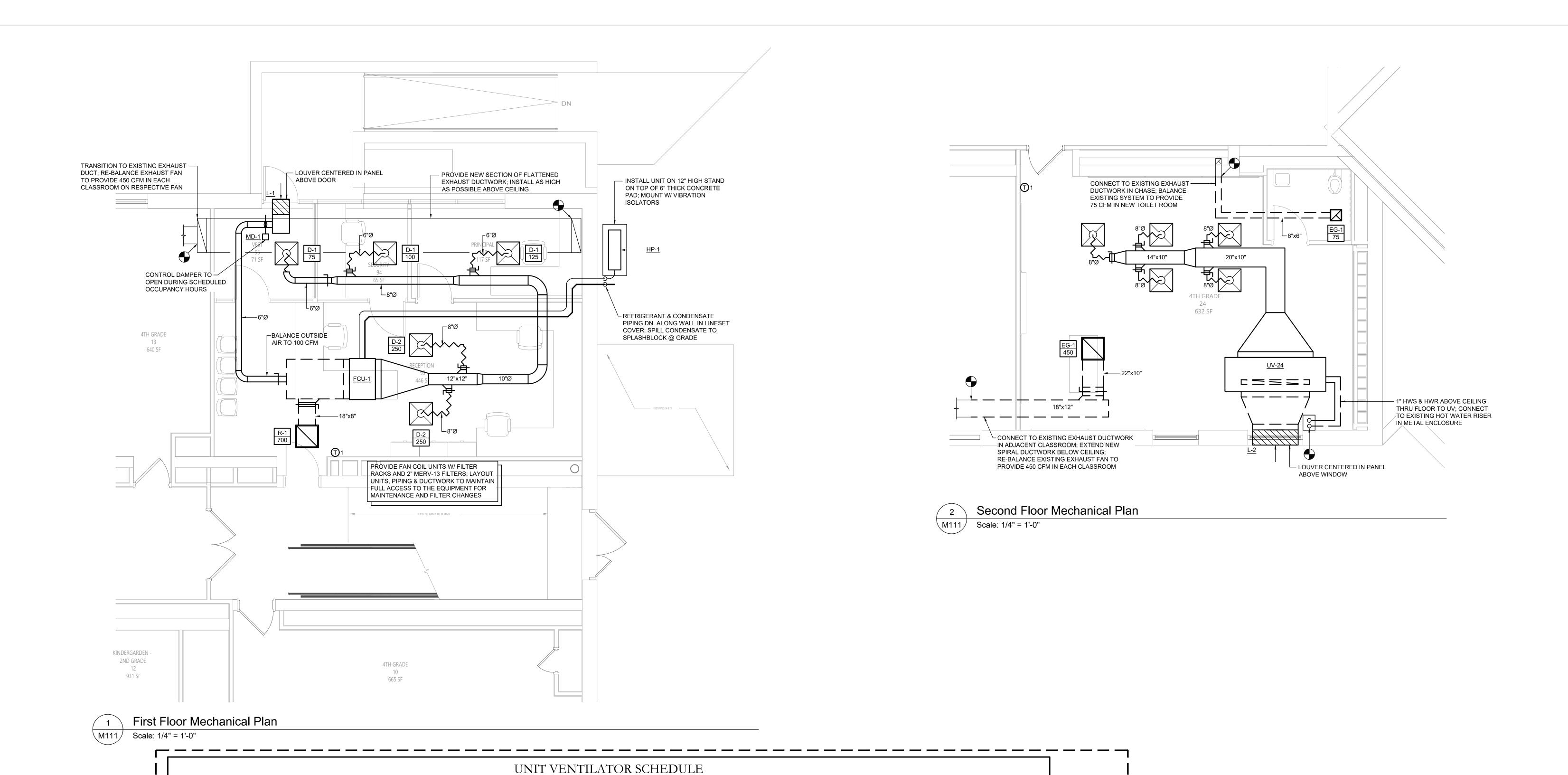
DEMOLITION

DATE

EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED &



First Floor Mechanical Demolition Plan



UNIT VENTILATORS & SPLIT SYSTEMS WITH -DUCTED FAN COIL & HEAT PUMP FURNISHED

BY OWNER, INSTALLED BY CONTRACTOR; CONTRACTOR IS RESPONSIBLE TO RECEIVE THE EQUIPMENT DELIVERY AT THE PROJECT SITE, MOVE EQUIPMENT FROM TRUCK(S) TO A DESIGNATED STORAGE LOCATION ON THE SITE & RIG THE UNIT INTO THE FINAL INSTALLATION LOCATION; CONTRACTOR IS TO PROVIDE ALL ASSOCIATED COMPONENTS, I.E., DUCTWORK, PIPING, CONTROLS, ACCESSORIES, ETC. UNLESS OTHERWISE NOTED IN THE PROJECT DOCUMENTS; REFER TO FRONT END DOCUMENTS FOR ADDITIONAL INFORMATION

			AREA OF	TOTAL	OUTSIDE AIR			HEATING	COIL DATA	.					ELECT	RICAL	DATA				TOTAL	
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	BUILDING	SUPPLY AIRFLOW	SUPPLIED	EFT	LFT		E.A.T. DB			FLOW RATE	BLOW	VER MOT	TOR		UNIT	POWE	ER		WEIGHT	NOTES
			SERVED	(CFM)	(CFM)	(°F)	(°F)	(MBH)	(°F)	(°F)	(FT)	(GPM)	TYPE	HP	RPM V	DLT. PI	HASE	Hz.	MCA I	МОСР	(LB)	
UV-24	TRANE	HUVE1250	CLASSROOM 24	1,250	450	180	160	75	40	95	4.0	7.5	VAR. SPEED ECM	1/2	1116 1	20	1	60	9	15	675	1-5
 FURNIS PROVID 	ICAL CONNECTION TO BE H WITH FACTORY INSTALI E WITH FACE & BYPASS D H & INSTALL 2" MERV-13 F	LED DISCONNECT SWITDAMPERS AND HOT WAT		<u> </u>					PROVIDE WI PROVIDE UN													
						-	IND	OOR N	MINI-S	PLIT (JNI	SCF	HEDI	ULE								
	MANUFACTURER			AREA OF		COC	DLING		HEATING	G	PAIRED	EXTE	ERNAL		ELECTRI							

							INI)00	R MIN	II-SP	'LIT	UNIT	SCHEDI	ULE				
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT.	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING	AIRFLOW (CFM)	CAPACITY	OOLING EDB		CAPACITY		EWB	PAIRED OUTDOOR	EXTERNAL STATIC PRESSURE		ELECTRICA POWER REQUIREMEN		WEIGHT (LB)	NOTES
	EQUAL)			SERVED		(MBH)	(°F)	(°F)	(MBH)	(°F)	(°F)	UNIT		VOLT.	PHASE Hz.	W	(==)	
FCU-1	MITSUBISHI	PEAD-A30AA8	DUCTED MEDIUM STATIC	MAIN OFFICE	800	30.0	80.0	67.0	32.0	70.0	60.0	HP-1	0.50	208	1 60	121	67	HYPER HEATING UNIT; SEE VRF SYSTEM NOTES

							AIR-	COOI	LED	HE	EAT	PUMP S	CHED	ULE					
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	NOM. HEAT CAPACITY (MBH)	OPERATI RANG	DOOR NG TEMP. BE (°F) HEATING		ATINGS	S	REFRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING (dBA)	VOLT. PH	ELECTR POWE REQUIREM ASE Hz.	R IENTS	A MO	WEIGHT (LB)	NOTES
HP-1	MITSUBISHI	SUZ-KA30NAHZ	FCU-1	INVERTER SCROLL HERMETIC	30.0	32.0	0 TO 115	-13 TO 75	12.5	15.0	3.4	R410A	52/53	208	1 60	24	4	0 261	FURNISH W/ REQUIRED PIPING ACCESSORIES

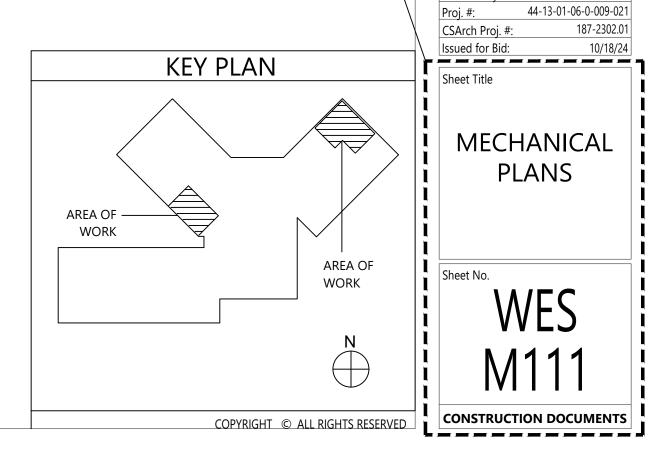
				AI	R GR	ILLE/DII	FFUSER	SCHEDULE	3				
EQUIPMEN	MANUFACTURER T (OR ACCEPT.	MODEL	AIR DEVICE	AIRFLC		MAX AIR PRESS	MOUNTING		NECK SIZE		DAMPER	FINISH	NOTES
TAG	EQUAL)	MODEL	TYPE	MIN.	MAX.	DROP (IN. W.C.)	mooning	(IN.)	(IN.)	NC	D, 2.1		1.0.125
D-1	KRUEGER	PLQ-6-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	50	175	0.10	LAY-IN	24"x24"	6"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
D-2	KRUEGER	PLQ-8-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	176	300	0.10	LAY-IN	24"x24"	8"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
R-1	KRUEGER	S80P-20x20-F23-24x24-00-00-00-44	PERFORATED FACE RETURN GRILLE	0	1,600	0.10	LAY-IN	24"x24"	20"x20"	25	-	WHITE	FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX ON REAR OF GRILLE, PAINT INSIDE FLAT BLACK

EQUIPMENT	QTY.	MANUFACTURER (OR ACCEPT.	MODEL	AIR DEVICE TYPE	LC	DUVER SIZE	Ξ	FREE AREA	AIRFLOW	VELOCITY	MOUNTING	SCREEN	FINISH	NOTES
TAG	QII.	EQUAL)	MODEL	AIN DEVICE TIPE	WIDE	HIGH	DEPTH	(SQ. FT.)	(CFM)	(FT./MIN.)	WOONTING	SCILLIN	TIMOTI	NOTES
L-1	1	RUSKIN	ELF6375DX	STATIONARY LOUVER	18"	12"	6"	0.63	100	158.7	EXTERIOR WALL	YES	TBD	1, 2 & 3
L-2	1	RUSKIN	ELF6375DX	STATIONARY LOUVER	48"	12"	6"	1.65	1250	757.6	EXTERIOR WALL	YES	TBD	1, 2 & 3

VRF System Notes:

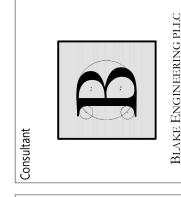
- 1. WIRED 7 DAY PROGRAMMABLE THERMOSTAT SHALL BE FURNISHED BY OWNER FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.
- 2. OWNER TO FURNISH CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.
- 3. DISCONNECT SWITCHES FOR CONDENSING UNITS AND INDOOR UNITS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 4. EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- 5. FILTER RACK AND 2" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H SERIES OR EQUAL
- 6. CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.
- 7. PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN COIL UNIT.

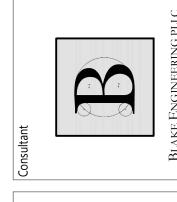




DATE

Drawn By:





			LIGHT	ING FIX	ГURЕ	SCHED	ULE			
TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
А	\blacksquare_{A}	HE WILLIAMS RECESSED DIRECT/INDIRECT DIG-S22-L32/840-AD-DIM-UNV	LED	120	1	25.8	25.8	RECESSED	2'x2'	4000K COLOR TEMPERATURE
В	В-ЕМ	HE WILLIAMS VOLTAIRE ARCHITECTURAL WALL PACK VWPH-L30/740-T3-DBZ-SDGL-EM/10WC-DIM-UNV	LED	120	1	36	36	SURFACE WALL MOUNT	12"x12"	VANDAL RESISTANT; 4000K COLOR TEMPERATURE; W/ LED EMERGENCY 90 MINUTE LOW TEMPERATURE BATTERY BACKUP; UL 924 LISTED FIXTURE
-	\$	HE WILLIAMS LED EMERGENCY LIGHT EMER/LED-WHT-SDT-D	LED	120	2	1.0	2.0	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP
-	\$€	HE WILLIAMS LED EXIT & EMERGENCY LIGHT EXIT/EM/LED-R-WHT-RC-SDT-D	LED	120	2	1.5	3.4	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP; PROVIDE W/ REMOTE HEAD MODEL WETRHL-T-WHT-HL-MV
-	⊗	HE WILLIAMS LED EXIT LIGHT EXIT-R-EM-WHT-SDT-D	LED	120	1	3.8	3.8	UNIVERSAL	-	90-MINUTE BATTERY BACKUP

FIRE ALARM LEGEND:

HORN/STROBE DEVICE, ONE ASSEMBLY; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED

STROBE DEVICE; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED

O/MBEE/(ONEEGO OTTENWISE NOTES

MANUAL PULL STATION; MTD. 48" A.F.F.

WATER FLOW SWITCH

VALVE TAMPER SWITCH

DETECTOR; LETTER INDICATES AS FOLLOWS:
BLANK = SMOKE DETECTOR
P = PHOTOELECTRIC SMOKE
M = MULTIPLE STATION SMOKE ALARM
D = PHOTOELECTRIC DUCT SMOKE DETECTOR

FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DAMPER

RATE OF RISE HEAT DETECTOR, 135°F

CARBON MONOXIDE DETECTOR; MTD. 60" A.F.F.

FACP ADDRESSABLE FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR PANEL

REMOTE TEST SWITCH & LED FOR DUCT SMOKE DETECTORS

R FIRE ALARM RELAY

SECURITY LEGEND:

PB PANIC BUTTON - 18/4 SHIELDED

IC INTERCOM

DR DOOR RELEASE BUTTON - 16/2 SHIELDED

WS WORKSTATION FOR CARD ACCESS & VIDEO SYSTEM

CR CARD READER - 22/6 SHIELDED

REX REQUEST TO EXIT - 18/4 SHIELDED

DC MAGNETIC DOOR CONTACT - 16/2 SHIELDED

EL ELECTRIC LOCK - 16/2 SHIELDED

ELECTRICAL LEGEND:

Ø MOTOR

EARTH GROUND

JUNCTION BOX

EMERCENCY POWER OFF R

© EMERGENCY POWER OFF BUTTON

MOLDED CASE CIRCUIT BREAKER

FUSE WITH RATING

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH LINELS

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

M METE

⇒ 20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED

20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER

♦ 20A 120V QUADRAPLEX RECEPTACLE

WALL MOUNTED SPECIAL PURPOSE RECEPTACLE

⇒ USB 20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL

FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE; FLUSH MOUNTED

FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE & 2 PORT ETHERNET
OUTLET; FLUSH MOUNTED

FLOOR MOUNTED BOX W/ QUAD RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED

 ¬W
 WALL PHONE OUTLET MTD. 48" A.F.F.; 3/4" EMT CDT. IN WALL TO
 ABOVE CEILING; PROVIDE 1 PORT ETHERNET WALL PLATE; PROVIDE
 (1) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET

WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD

WALL TO ABOVE CEILING; PROVIDE 2 PORT ETHERNET WALL PLATE;
PROVIDE (2) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT
CLOSET

BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS,

TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN

NEUTRAL, AND SWITCH LEG CONDUCTORS; ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN

BLANK = SINGLE POLE

3 = THREE-WAY

D = DIMMER

P = WITH PILOT LIGHT

T = TIMER OPERATED

X = EXPLOSION PROOF

2 = DOUBLE POLE

4 = FOUR-WAY

K = KEY OPERATED

WP= PUSH BUTTON

WP= WEATHER PROOF

OC= OCCUPANCY SENSOR

DUAL TECHNOLOGY OCCUPANCY SENSOR

DAYLIGHT SENSOR

MULTIMEDIA BOX. PROVIDE DEVICE BOX AT 60" ABOVE FINISHED FLOOR WITH (2) DUPLEX RECEPTACLES & (2) CAT6E PORTS. PROVIDE FACEPLATES AND (2) 1-1/4" CONDUITS STUBBED ABOVE CEILING, (1) W/ CAT6E CABLES RUN TO NEAREST IT CLOSET & (1) W/ PULL CORD FOR FUTURE HDMI. RECESS MOUNT BOX TYPICAL OF WIREMOLD EVOLUTION SERIES WITH CONCEALED CONDUITS IN EXISTING FRAMED WALLS AND ALL NEW WALLS. PROVIDE SURFACE MOUNT BOXES WITH DUAL CHANNEL SURFACE MOUNT RACEWAY (LEGRAND WIREMOLD 5400 SERIES) WHERE INSTALLED ON EXISTING MASONRY WALLS.

ELECTRICAL NOTES:

 ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.

2. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.

3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER

4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.

6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.

7. THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.

8. EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.

9. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2017 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

10. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).

11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.

12. ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.

13. LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.

14. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.

15. FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.

THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.

17. ALL CONDUIT AND CABLE SHALL BE PROPERLY SUPPORTED AND ROUTED

16. MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY

REQUIRED FOR PROPER INSTALLATION OF WORK.

18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER

PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS

19. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.

OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.

	WII	RE CO	LOR	COD	ING	TABL	E
PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	GROUND
1	2 (1)	120	BLACK	-	-	WHITE	-
1	2 (1)	208	BLACK	RED	-	-	-
1	3	120	BLACK	-	-	WHITE	GREEN (2)
1	3	208	BLACK	RED	-	-	GREEN (2)
3	4	208	BLACK	RED	BLUE	-	GREEN (2)
3	5	208	BLACK	RED	BLUE	WHITE	GREEN (2)
1	3	277	BROWN	-	-	GRAY	GREEN (2)
1	3	480	BROWN	ORANGE	-	-	GREEN (2)
3	4	480	BROWN	ORANGE	YELLOW	-	GREEN (2)
3	5	480	BROWN	ORANGE	YELLOW	GRAY	GREEN (2)

NOTES:

1. FOR DOUBLE INSULATED EQUIPMENT ONLY.

CONDUCTORS.

GREEN/YELLOW MAY BE USED:

- GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES.

- GREEN = 50 TO 70%, YELLOW = 50 TO 30%.

- GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR.

- GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING

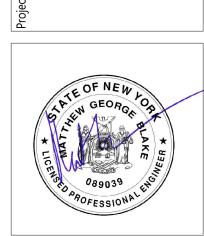
DEVICE MOUNTING	G HEIGHTS
POWER RECEPTACLES (INTERIOR)	18" A.F.F.
POWER RECEPTACLES (EXTERIOR)	36" A.F.G.
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE
DISCONNECT SWITCHES	SEE NEC 404.8(A)
TELEPHONE/DATA RECEPTACLES	18" A.F.F.
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.
TV & A/V OUTLETS	18" A.F.F.

NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED

ADD ALTERNATE NO. ALT-EC-1-03-001

AKE ENGINEERING PLLC
8 COUNTY ROUTE I, WESTTOWN, IN 10998
9207 MBIAKE@BIAKEENGINEERINGPLLCCOM

VALLEY CENTRAL SCHOOL DISTRI WALDEN ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE



DATE DESCRIPTION

Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-009-021

Drawn By:

Checked By:

Proj. #:

CSArch Proj. #:

Issued for Bid:

Sheet Title

ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS

Sheet No.

WES

FOO1

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BACK TO SOURCE

OTHERWISE TERMINATE AT SOURCE

UNTIL REINSTALLATION IN NEW CEILING

CONDUITS AND WIRING BACK TO SOURCE

WIRING BACK TO SOURCE

WIRING BACK TO SOURCE

AND WIRING BACK TO SOURCE

WIRING BACK TO SOURCE

ADD ALTERNATE NO. ALT-EC-1-03-001

KEY PLAN

DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT FIXTURE & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE,

POWER STRIP / WIREMOLD & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE

EXISTING WIRELESS ACCESS POINT TO BE DISCONNECTED, REMOVED & STORED; TEMPORARILY SUPPORT DATA CABLING

DISCONNECT, REMOVE & PROPERLY DISPOSE OF DATA OUTLET & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND

DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT SWITCHES & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND

DISCONNECT, REMOVE & PROPERLY DISPOSE OF WALL MOUNTED

DISCONNECT, REMOVE & PROPERLY DISPOSE OF WALL MOUNTED CLOCK & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS

SMART BOARD TO BE REMOVED BY OWNER; CONTRACTOR TO DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING WIRING

DISCONNECT, REMOVE & PROPERLY DISPOSE OF RECEPTACLE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND

EXISTING DATA CABLING & IT EQUIPMENT TO BE REMOVED FROM CLOSET & RELOCATED TO NEAREST IDF; COORDINATE W/ OWNER

EXISTING CEILING CASSETTE & CONDENSING UNIT TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE

ALL CONDUITS AND WIRING BACK TO SOURCE

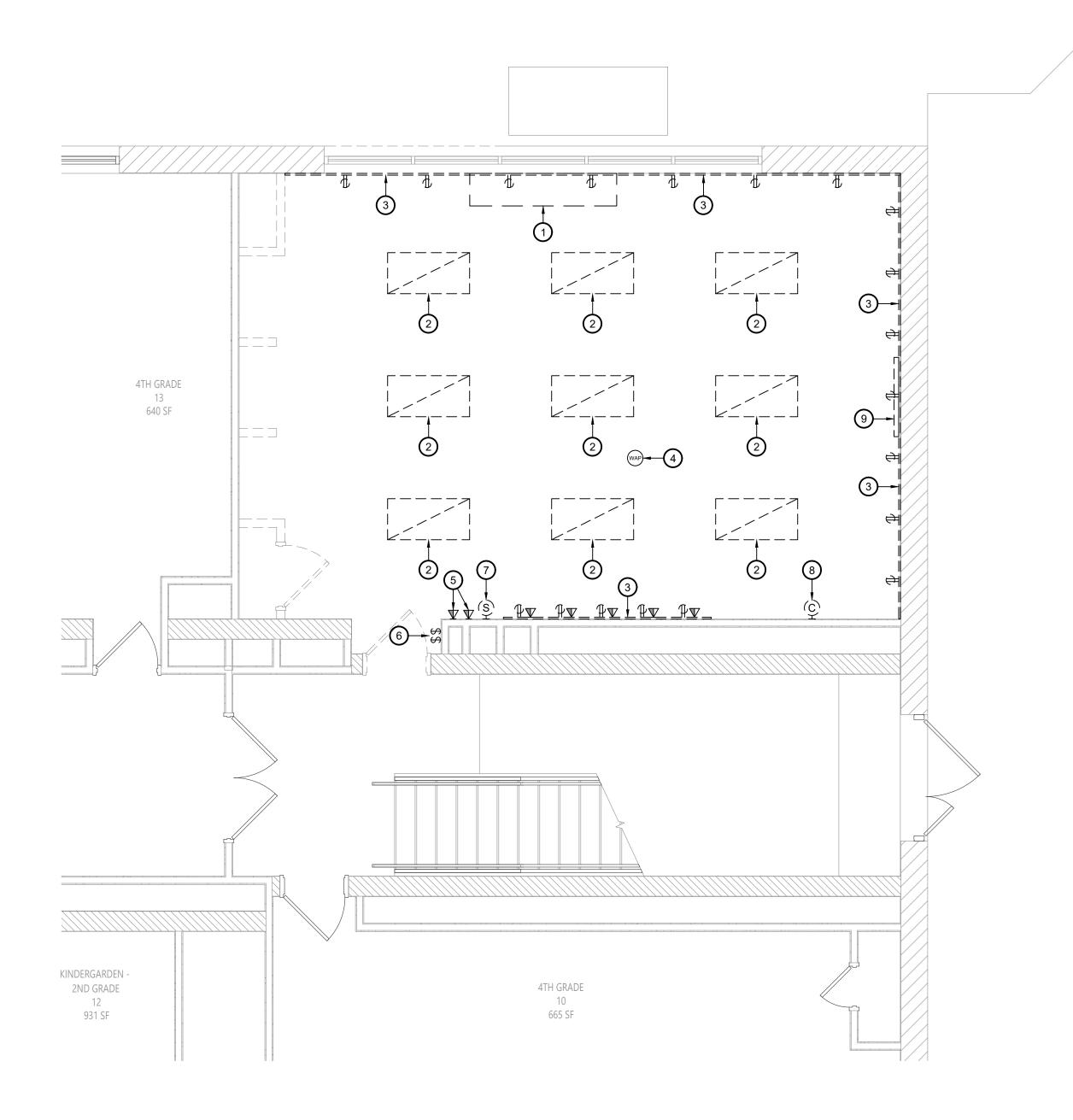
SPEAKER & ASSOCIATED WIRING & CONDUIT; REMOVE ALL

DATE

44-13-01-06-0-009-021 187-2302.01 CSArch Proj. #: _______

DEMOLITION

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4- (5) COMPUTER LAB 28 1377 SF

First Floor Electrical Demolition Plan ED111 Scale: 1/4" = 1'-0"

Second Floor Electrical Demolition Plan ED111 Scale: 1/4" = 1'-0"

Key Notes:

OF FIRE ALARM

EXISTING DATA CABLING

ADA DOOR OPERATORS PROVIDED BY GC; EC TO PROVIDE ALL 120V LINE VOLTAGE POWER TO OPERATOR & CONTROL DEVICES;

PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER

FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION

REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO

PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE

GC TO PROVIDE ALL LOW VOLTAGE CONTROLS

EXISTING BUILDING FIRE ALARM SYSTEM

DATE Drawn By:

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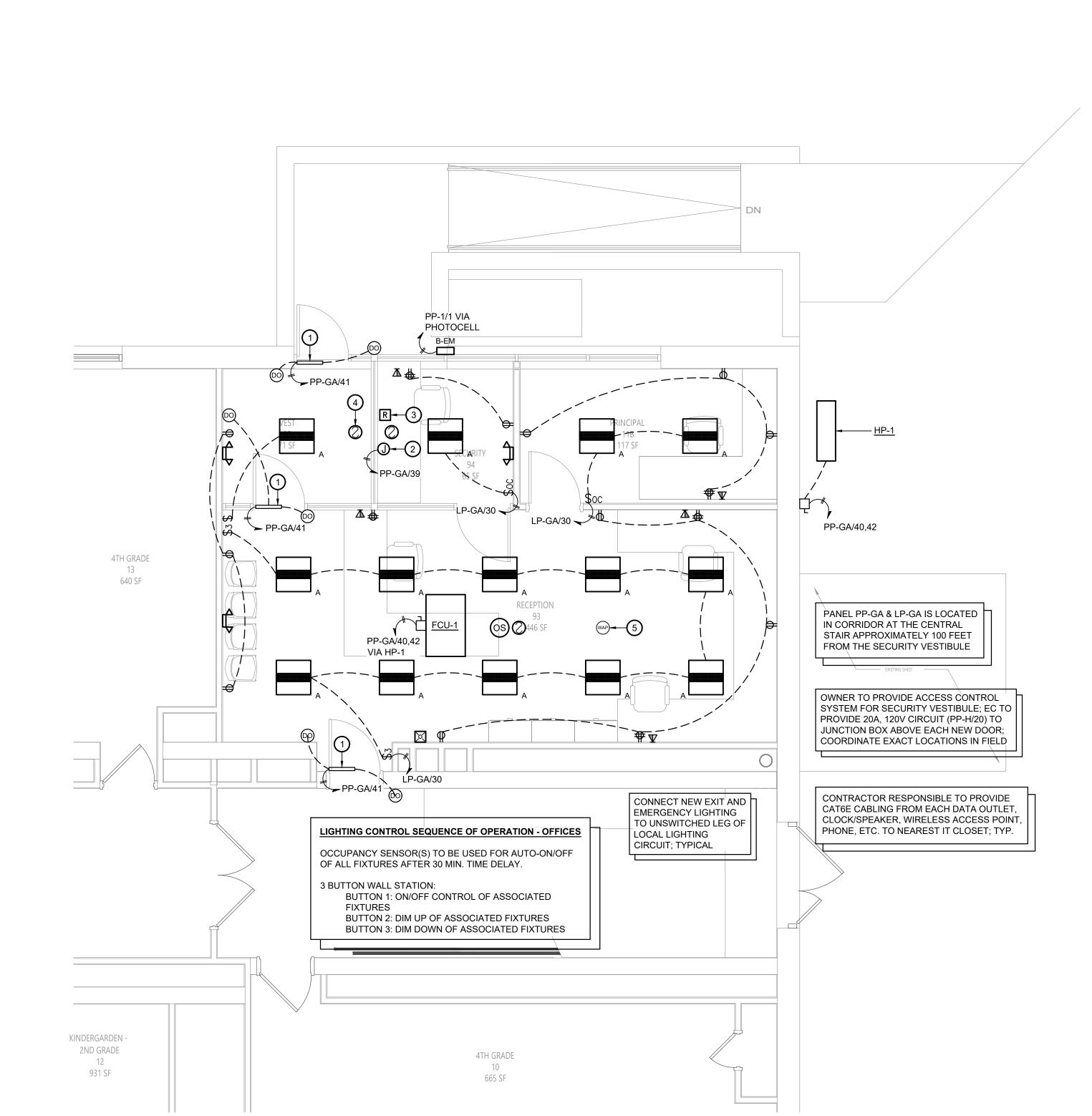
KEY PLAN

AREA OF WORK

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LIGHTING CONTROL SEQUENCE OF OPERATION - CLASSROOMS VACANCY SENSOR(S) TO BE USED FOR AUTO-OFF OF ALL FIXTURES AFTER 30 MIN. TIME DELAY. DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING LEVEL FOR LIGHT FIXTURES DESIGNATED "DS" ON PLANS BASED ON DAYLIGHT AVAILABLE IN SPACE, WITH DIM-TO-OFF FUNCTIONALITY. 3 BUTTON WALL STATION: BUTTON 1: ON/OFF CONTROL OF ASSOCIATED FIXTURES
BUTTON 2: DIM UP OF ASSOCIATED FIXTURES
BUTTON 3: DIM DOWN OF ASSOCIATED FIXTURES CONNECT NEW EXIT AND EMERGENCY LIGHTING TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT; TYPICAL PANEL PP-1A & LP-1A IS LOCATED IN CORRIDOR ACROSS THE HALL APPROXIMATELY 50 FEET FROM 4TH GRADE CLASSROOM 24 PP-1A/41 CONTRACTOR RESPONSIBLE TO PROVIDE CAT6E CABLING FROM EACH DATA OUTLET, PP-1A/42 CLOCK/SPEAKER, WIRELESS ACCESS POINT, PHONE, ETC. TO NEAREST IT CLOSET; TYP.

Second Floor Electrical Plan

First Floor Electrical Plan

E111 Scale: 1/4" = 1'-0"

E111 Scale: 1/4" = 1'-0"