

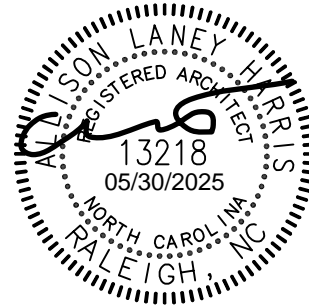
ADDENDUM 2

ADDENDUM DATE: May 30th, 2025

PROJECT: United Middle School of Havelock Addition
Havelock, NC

OWNER: Craven County Schools
3600 Trent Road
New Bern, NC 28562

ARCHITECT: Smith Sinnett Architecture, P.A.
4600 Lake Boone Trail, Suite 205
Raleigh, North Carolina 27607



BIDS DUE: **June 10th 2025 at 2:00 p.m.**
Craven County Schools Board Room,
3600 Trent Road
New Bern NC 28562

Please note, Project Addenda and Bidders List are available at www.smithsinnett.com under the 'Documents' Tab on the navigation bar.

This Addendum shall be included in the contract for the above-referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

General

1. Reminder: The Pre-Bid Meeting scheduled for May 29th was mandatory for General Contractors. Bidders who did not attend the Pre-Bid Meeting will be removed from consideration.
2. Pre-bid RFIs have been received, updated response log is included in Addendum 2.

Drawings

1. **Revised S0-01:** additional notes added for clarification regarding AESS.
2. **Revised S2-00:** additional notes added for clarification regarding AESS.
3. **Revised S2-01:** additional notes added for clarification regarding AESS.
4. **Revised S9-02:** notation reworded to be more clear.

5. **Revised A5-01:** standard sidewalk details 6 and 7 removed from architectural sheets. Refer to the sidewalk and pavement details on the civil plans for site sidewalks and pavements.

Specifications

1. **Clarification:** 012100 Allowances: Allowance 12 Bi-Directional Amplification (BDA) applies only to the BDA system in the new classroom additions, if required.
2. **Clarification:** 012300 Alternates: Alternate 9 Whole Building BDA applies only to the BDA system added to the existing building. It is the Architect's understanding from DOI that the BDA can only be mandated in the new classroom additions but, if it is required, Owner would like the option to provide coverage for the entire building.
3. **Revised:** 122413 Roller Window Shades: Part 2 Products was updated to include both Manual and Motorized roller shades.
4. **Substitution Request:** A4-01 Accessory Schedule: World Dryer SLIMdri has been added as an approved equal.

End of Addendum 2

Attached:

Drawings:

S0-01 Structural Notes
S2-00 Sections
S2-01 Sections
S9-02 ALT 1 – P.E. Storage Bldg. – Foundation / Framing Plans
A5-01 Plan Details

Specifications:

122413 Roller Window Shades

Other:

Mechanical Addendum 2, under separate cover
Electrical Addendum 2, under separate cover
RFI log
Fire Lane Access Gate Detail
1996 Existing Building Drawings (124 pages)

Altimetec's Docs/Tucker Creek Middle School Addition/Tucker Creek Classroom Addition, Structure, R24.rvt
5/24/2025 10:44:41 AM

COMPONENTS & CLADDING NEW DESIGN WIND PRESSURE (ULTIMATE)				
ZONE	EFFECTIVE WIND AREA	(+/-) PRESSURE (PSF)	(-) PRESSURE (PSF)	
ROOF	1	10	16	-50
	1	20	16	47
	1	50	16	-42
	1	100	16	-39
	2	10	16	-66
	2	20	16	-62
	2	50	16	-56
	2	100	16	-52
	3	10	16	-97
	3	20	16	-81
WALLS	3	50	16	-70
	3	100	16	-62
	4	10	36	-40
	4	50	32	-37
	4	100	30	-34
	4	200	29	-34
	4	500	27	-31
	5	10	36	-49
	5	50	32	-44
	5	100	30	-39
ROOF	5	200	29	-35
	5	500	27	-31
COMPONENTS & CLADDING PRESSURE (PSF)				
ZONE 4	5	3	2	3
ZONE 1	2	3	2	3

GENERAL NOTES:

- THE PROJECT SPECIFICATIONS (A BOOK OF SPECIFICATIONS WHEN PROVIDED) ARE A PART OF THE CONTRACT. IF ANY DISCREPANCY IS FOUND, THE SPECIFICATIONS SHALL TAKE PRECEDENCE. HOWEVER, THE MATTER SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT FOR CLARIFICATION. THE METHOD OF CONSTRUCTION AND ALL MEASURES, DIMENSIONS, AND SITE CONDITIONS INCLUDING ERRORS BEFORE PROCEEDING WITH ANY WORK. OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS SHALL BE RESOLVED IN WRITING BY THE ARCHITECT OR ENGINEER DOES NOT INCLUDE REVIEW OF THESE MEASURES.
- THE DRAWINGS (AND SPECIFICATIONS) REPRESENT THE COMPLETED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION NOR THE SATISFACTION OF THE ARCHITECT OR ENGINEER. MEANS NECESSARY TO PROTECT PERSONS AND THE STRUCTURE DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING, ETC. OBSERVATION VISITS BY THE ARCHITECT OR ENGINEER DOES NOT INCLUDE REVIEW OF THESE MEASURES.
- TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
- DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER & ARCHITECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, UNLESS OTHERWISE NOTED
 - B. SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
 - C. SIZE AND LOCATION OF CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGERS IN LEVEL, RAMPS, CHAMFERS, GROOVES, INSERTS, ETC., EXCEPT AS SHOWN.
 - D. SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN.
 - E. STAIR FRAMING AND DETAILS, EXCEPT AS SHOWN.
 - F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED
 - B. ELECTRICAL CONDUITS, BOXES, OUTLETS.
 - C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES.
 - D. SIZE AND LOCATION OF MACHINE AND EQUIPMENT BASES, ANCHOR BOLTS, ETC.
- ASTM REFERENCES ARE FROM THE LATEST ISSUE AND LATEST REVISION, UNLESS NOTED OTHERWISE.
- INVESTIGATE THE SITE DURING CLEARING AND EXCAVATION FOR UNSUITABLE CONDITIONS, UNCONSOLIDATED AND UNDOCUMENTED FILLS, BURIED STRUCTURES, UTILITIES, ETC., AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY SITE CONDITIONS NOT REFLECTED ON THE DRAWINGS OR DIFFERENT FROM MAXIMUM OR MINIMUM DIMENSIONS INDICATED, INCLUDING CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, GROUNDWATER PRESENT, DEEPEEN FOOTINGS, UNCOVERED AND UNEXPECTED UTILILITY LINES, ETC.
- CONSTRUCTION MATERIALS, IF PLACED ON STRUCTURAL MEMBERS, SHALL BE SPREAD OUT SUCH THAT THE LOADING DOES NOT EXCEED THE DESIGN LIVE LOADS. PROVIDE SHORING AND BRACING WHERE CONSTRUCTION LOADING EXCEEDS THE DESIGN STRENGTH OF THE STRUCTURAL MEMBERS OR THE STRUCTURAL STRENGTH HAS NOT BEEN ATTAINED OR THE STRUCTURE IS NOT COMPLETE.
- DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UTILITIES UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CAD DRAWING FILES ARE THE PROPERTY OF THE EOR AND WILL NOT BE RELEASED TO THE CONTRACTOR OR SUBCONTRACTOR FOR THEIR USE.
- STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

DESIGN CRITERIA: CLASSROOM ADDITIONS

- BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE
- BUILDING CLASSIFICATION CATEGORY (TABLE 1604.5): II
- DESIGN LIVE LOADS:
 - A. UNIFORM:
 - a. ROOF: 20 PSF
 - b. FLOOR (CLASSROOMS): 40 PSF
 - c. CORRIDOR (FIRST FLOOR): 60 PSF
 - B. CONCENTRATED (LOADS ARE APPLIED UNIFORMLY OVER A 2'-6" x 2'-6" AREA): 300 LB
- SNOW:
 - A. GROUND SNOW LOAD: 15 PSF
 - B. FLAT ROOF SNOW LOAD: 20 PSF
 - C. SNOW EXPOSURE FACTOR, C_e : 1.0
 - D. IMPORTANCE FACTOR, I_s : 1.1
 - E. THERMAL FACTOR, C_t : 1.0
- WIND:
 - A. ULTIMATE WIND SPEED: 146 MPH
 - B. NOMINAL WIND SPEED: 113 MPH
 - C. IMPORTANCE FACTOR (UNO), I_w : 1.0
 - D. WIND EXPOSURE CATEGORY: B
 - E. INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - F. DESIGN WIND PRESSURES: SEE CHART
- SEISMIC:
 - A. IMPORTANCE FACTOR, I_e : 1.25
 - B. MAPPED SPECTRAL RESPONSE COEFFICIENT, S_s : 0.124 g
 - C. MAPPED ONE SECOND SPECTRAL RESPONSE COEFFICIENT, S_1 : 0.062 g
 - D. SITE CLASS: D (ASSUMED)
 - E. DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{ds} : 0.133 g
 - F. DESIGN ONE SECOND SPECTRAL RESPONSE COEFFICIENT, S_{d1} : 0.100 g
 - G. SEISMIC DESIGN CATEGORY: B
 - H. BASIC SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED SHEAR WALLS
 - I. SEISMIC BASE SHEAR: $V_x = V_y = 8 k$
 - J. SEISMIC RESPONSE COEFFICIENT, C_R : 0.038
 - K. RESPONSE MODIFICATION FACTOR, R : 3.5
 - L. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

DESIGN CRITERIA: STORAGE BUILDING

- BUILDING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE
- BUILDING CLASSIFICATION CATEGORY (TABLE 1604.5): II
- DESIGN LIVE LOADS:
 - A. UNIFORM:
 - a. ROOF: 20 PSF
 - b. STORAGE: 125 PSF
 - B. CONCENTRATED (LOADS ARE APPLIED UNIFORMLY OVER A 2'-6" x 2'-6" AREA): 2000 LB
- SNOW:
 - A. GROUND SNOW LOAD: 15 PSF
 - B. FLAT ROOF SNOW LOAD: 20 PSF
 - C. SNOW EXPOSURE FACTOR, C_e : 1.0
 - D. IMPORTANCE FACTOR, I_s : 1.0
 - E. THERMAL FACTOR, C_t : 1.2
- WIND:
 - A. ULTIMATE WIND SPEED: 137 MPH
 - B. NOMINAL WIND SPEED: 107 MPH
 - C. IMPORTANCE FACTOR (UNO), I_w : 1.0
 - D. WIND EXPOSURE CATEGORY: B
 - E. INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - F. DESIGN WIND PRESSURES: SEE CHART
- SEISMIC:
 - A. IMPORTANCE FACTOR, I_e : 1.0
 - B. MAPPED SPECTRAL RESPONSE COEFFICIENT, S_s : 0.104 g
 - C. MAPPED ONE SECOND SPECTRAL RESPONSE COEFFICIENT, S_1 : 0.062 g
 - D. SITE CLASS: D (ASSUMED)
 - E. DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{ds} : 0.133 g
 - F. DESIGN ONE SECOND SPECTRAL RESPONSE COEFFICIENT, S_{d1} : 0.100 g
 - G. SEISMIC DESIGN CATEGORY: B
 - H. BASIC SEISMIC FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED SHEAR WALLS
 - I. SEISMIC BASE SHEAR: $V_x = V_y = 8 k$
 - J. SEISMIC RESPONSE COEFFICIENT, C_R : 0.038
 - K. RESPONSE MODIFICATION FACTOR, R : 3.5
 - L. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

FOUNDATION:

- FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THE FOUNDATION SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER. A GEOTECHNICAL REPORT AND ALL SUPPLEMENTAL REPORTS OR ADDENDA SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- FOOTING DEPTHS SHOWN ARE A MINIMUM AND TO PROTECT DEEPEEN PER DIRECTION OF THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BEAR ON FIRM UNDISTURBED OR COMPACTED SOIL PER THE MANUFACTURER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- GEOTECHNICAL ENGINEER SHALL VERIFY IN WRITING TO THE ARCHITECT/ENGINEER THAT SITE GRADING WORK COMPLIES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE GEOTECHNICAL REPORT. SUBMIT COMPACTION TEST REPORTS FOR ALL FILL BY A QUALIFIED TESTING LAB TO ARCHITECT/ENGINEER BEFORE FOUNDATION PLACEMENT. ALL LOOSE SOIL AND FILL DIRT SHALL BE COMPACTED PER GEOTECHNICAL REPORT AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO A MINIMUM OF 95% MAXIMUM DENSITY.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER AND SHALL BE NEAT AND TRUE TO LINE BEFORE ANY CONCRETE IS PLACED. EXCAVATION SHALL BE CHECKED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND TO BE REPORTED TO THE ARCHITECT/ENGINEER & GEOTECHNICAL ENGINEER IMMEDIATELY.
- ALL SITE GRADING WORK SHALL BE PERFORMED UNDER THE DIRECTION OBSERVATION OF THE GEOTECHNICAL ENGINEER. ANY DEVIATIONS IN SOIL CONDITIONS FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER & GEOTECHNICAL ENGINEER IMMEDIATELY.
- UTILITY TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 3" CLEAR OF BOTTOM AND SIDES.
- UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND WITH A 6" DIAMETER ANCHOR BOLT PER FOOTING.
- PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES.
- PROVIDE FOR DRAINAGE AND WATERING OF EXCAVATIONS FROM SURFACE, GROUND, AND OR SEEPAGE WATER.

STRUCTURAL STEEL:

- THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND STEEL CONSTRUCTION MANUAL, AISC 360, LATEST ADOPTED EDITION, EXCEPT AS AMENDED IN IBC CHAPTER 22.
- THE SEISMIC DESIGN OF STEEL STRUCTURES SHALL BE IN ACCORDANCE WITH "AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", INCLUDING ALL SUPPLEMENTS AISC 341 EXCEPT AS AMENDED IN IBC CHAPTER 22.
- ALL CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH LATEST EDITION OF AISC "DETAILING FOR STEEL CONSTRUCTION", DESIGN CONNECTIONS FOR HALF OF THE TOTAL UNIFORM LOAD PER AISI TABLES (UNO).
- STEEL FURNISHED FOR STRUCTURAL LOAD-CARRYING PURPOSES SHALL BE PROPERLY IDENTIFIED FOR CONFORMITY TO THE SPECIFIED GRADES SHOWN BELOW AND IN ACCORDANCE WITH ASTM STANDARDS AND PROVISIONS OF IBC CHAPTER 22. STEEL THAT IS NOT READILY IDENTIFIABLE AS TO GRADE FROM MARKING AND TEST RECORDS SHALL BE TESTED TO DETERMINE CONFORMITY TO:
 - A. WELD FLANGE: ASTM F692 (F_y = 50 ksi)
 - B. ANGLES AND CHANNELS: ASTM A36 (F_y = 36 ksi)
 - C. PLATES: ASTM A36 (F_y = 36 ksi)
 - D. HSS (RECTANGULAR): ASTM A500 GRADE B (F_y = 46 ksi)
 - E. ANCHOR BOLTS: ASTM F1554 GRADE 55
- ALL COLUMN ENDS TO BE MILLED.
- ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. ZINC COATING SHALL CONFORM TO ASTM A123 (G-40), UNLESS OTHERWISE NOTED.
- ALL WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO COATS OF "GALVALLOY" OR EQUAL. CONTRACTOR TO USE VENTILATION WHILE PERFORMING THIS WORK AS REQUIRED BY OSHA.
- ALL STEEL FABRICATION SHALL BE PERFORMED IN AN APPROVED FABRICATION SHOP.
- STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ALL METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
- SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATIONS FOR ALL STRUCTURAL STEEL MEMBERS AND ACCESSORIES. SHOP DRAWINGS SHALL INCLUDE CONNECTION DESIGN AND SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
- ALL EXPOSED STRUCTURAL STEEL SHALL HAVE FINISH PER AISC ARCHITECTURALLY EXPOSED STRUCTURAL STEEL LEVEL 3 SPECIFICATIONS.

STEEL BAR JOISTS:

- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE SPECIFICATIONS.
- DESIGN JOISTS FOR A NET UPLIFT OF 30 PSF (ASD), PROVIDE JOISTS CAPABLE OF WITHSTANDING THE UNIFORM DESIGN LOADS INDICATED. FOR JOISTS WITH UNIFORM LOADS PROVIDE KCS JOISTS AS NOTED ON THE FRAMING PLANS OR SPECIAL JOISTS (SP) WITH THE LOADING DIAGRAMS, IF APPLICABLE. JOISTS SHALL HAVE VERTICAL DEFLECTION LIMITS AS FOLLOWS UNLESS NOTED OTHERWISE:
 - A. FLOOR MEMBERS:
 - a. L/360 OF THE SPAN FOR LIVE LOAD
 - b. L/240 OF THE SPAN FOR LIVE LOAD PLUS DEAD LOAD
 - B. ROOF MEMBERS:
 - a. L/360 OF THE SPAN FOR LIVE LOAD
 - b. L/180 OF THE SPAN FOR LIVE LOAD PLUS DEAD LOAD
- ALL JOISTS SHALL BE SHOP PRIMED WITH SSPC-15 PAINT OR THE MANUFACTURER'S STANDARD SHOP PRIMER COMPLYING WITH THE PERFORMANCE REQUIREMENTS IN SSPC-PAINT 15. CONFIRM COLORS WITH THE ARCHITECTURAL DRAWINGS. DO NOT PAINT JOINT OR PRIME WHEN JOISTS ARE TO RECEIVE SPRAYED-ON FIRE-PROOFING.
- PROVIDE K-SERIES AND KCS-TYPE K-SERIES STEEL JOISTS AS INDICATED ON THE FRAMING PLANS. JOISTS SHALL BE MANUFACTURED PER SJI'S "SPECIFICATIONS". JOISTS SHALL HAVE UNDERSLINGS ENDS AND A PARALLEL TOP CHORD, UNLESS OTHERWISE NOTED.
- EXTEND TOP CHORDS OF JOISTS AS NOTED ON THE FRAMING PLANS. PROVIDE TYPE R EXTENSIONS, COMPLYING WITH SJI'S "SPECIFICATIONS" UNLESS NOTED OTHERWISE.
- CAMBER JOISTS ACCORDING SJI'S "SPECIFICATIONS" UNLESS NOTED OTHERWISE.
- EQUIP BEARING ENDS OF JOISTS WITH MANUFACTURER'S STANDARD BEVELED ENDS OR SLOPED SHOES IF SLOPE EXCEEDS 1/4 INCH PER 12 INCHES. DO NOT INSTALL JOISTS UNTIL SUPPORTING CONSTRUCTION IS IN PLACE AND SECURED. INSTALL JOISTS AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE. SECURELY FASTEN TO SUPPORTING CONSTRUCTION ACCORDING TO SJI'S "SPECIFICATIONS". JOIST MANUFACTURER'S WRITTEN RECOMMENDATIONS AND THE REQUIREMENTS BELOW.
- FIELD WELD JOISTS TO SUPPORTING STEEL BEARING PLATES AND FRAMEWORK. COORDINATE WELDING SEQUENCE AND PROCEDURE WITH PLACEMENT OF JOISTS. COMPLY WITH AISC REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK. JOISTS SHALL BE WELDED TO THEIR SUPPORTS WITH 1-1/2" FILLET WELD FOR EACH SIDE OF JOIST UNLESS OTHERWISE NOTED.
- INSTALL AND CONNECT BRIDGING ACCORDING TO SJI'S "SPECIFICATIONS". BRIDGING SHALL BE INSTALLED CONCURRENTLY WITH JOIST ERECTION, BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF BRIDGING LINE AT TOP AND BOTTOM CHORDS IF TERMINATING AT WALLS OR BEAMS. FURNISH ADDITIONAL ERECTION BRIDGING IF REQUIRED FOR STABILITY.
- JOIST MANUFACTURER MUST CHECK THE JOIST SYSTEM FOR AN UPLIFT PRESSURE AS NOTED ON THE UPLIFT DIAGRAM AND PROVIDE BRIDGING AS REQUIRED TO ADEQUATELY BRACE THE BOTTOM CHORD AGAINST LATERAL MOVEMENT.
- FOLLOW THE TESTING AND INSPECTION REQUIREMENTS IN THE "STRUCTURAL STEEL" SECTION OF THESE SPECIFICATIONS.

DEFERRED SUBMITTALS:

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.

- STRUCTURAL STEEL SHOP DRAWINGS AND CONNECTION DESIGN
- STEEL BAR JOISTS AND STEEL DECK
- STAIRS AND STAIR CONNECTIONS TO BUILDING WALLS
- LADDERS, GUARDRAILS, HANDRAILS AND THEIR COMPONENTS
- SUPPORT ANCHORAGE OF MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AND COMPONENTS
- COLD-FORMED FRAMING / METAL STUDS CALCULATIONS AND SHOP DRAWINGS INCLUDING LAYOUT, TYPICAL CONSTRUCTION DETAILS, AND CONNECTIONS (ITEMS SHOWN IN PLANS ARE MINIMUM SIZES REQUIRED)
- SLAB ON GRADE CONTROL JOINT PLAN (PE SEAL NOT REQUIRED FOR THIS ITEM)
- PREFABRICATED CANOPY SYSTEMS
- TEMPORARY SHORING METHODS AT EXISTING STRUCTURES

THE ABOVE LISTED SUBMITTAL DOCUMENTS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA.

STEEL DECK:

- METAL DECKING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE SPECIFICATIONS.
- WELDING OF METAL DECKING SHALL CONFORM TO AWS D1.3, "STRUCTURAL WELDING CODE-SHEET STEEL".
- METAL DECK SHALL BE AS NOTED ON PLAN AND MANUFACTURED BY NUCOR CORPORATION VULCRAFT DIVISION UNLESS NOTED OTHERWISE. ALTERNATE MANUFACTURERS MAY BE USED AT THE CONTRACTOR'S OPTION PROVIDED THE PROPERTIES OF THE ALTERNATE MEETS OR EXCEEDS THE METAL DECK SPECIFIED BELOW:

DECK TYPE	DECK THICKNESS	I_x (in ⁴ /ft)	S_x (in ³ /ft)	S_y (in ³ /ft)	F_y (ksi)
1.5622	0.0295	0.155	0.186	0.192	33
1.5620	0.0298	0.201	0.234	0.247	33
3.0VL20	0.0358	0.409	0.341	0.346	50
- METAL DECK SHALL BE GALVANIZED AND SHOP-PRIMED STEEL SHEET: ASTM 653, STRUCTURAL STEEL (55) GRADE 33, 60Z ZINC COATING, CLEAN, PRETREATED, AND PRIMED WITH MANUFACTURER'S STANDARD BAKED-ON, RUST-INHIBITIVE PRIMER. COLOR SHALL BE THE MANUFACTURER'S STANDARD UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL PLANS.
- METAL DECK SHALL HAVE A 3-SPAN CONDITION UNLESS NOTED OTHERWISE AND HAVE INTERLOCKING SEAM SIDELAPS.
- FASTEN ROOF DECK PANELS TO STEEL SUPPORTING MEMBERS BY ARC SPOT (PUDDLE) WELDS WITH A 5/8" DIAMETER, NOMINAL WELD INTERIOR RIBS OF DECK UNITS AS INDICATED ON THE ROOF DECK DETAIL ON THESE DRAWINGS. FASTEN SIDELAPS OF PANELS BETWEEN SUPPORTS WITH No. 10 SELF-DRILLING CARBON STEEL SCREWS AS INDICATED ON THE ROOF DECK DETAIL ON THESE DRAWINGS. INSTALL DECK ENDS OVER SUPPORTING FRAMING WITH A 1-1/2" MINIMUM END BEARING AND LAP JOINTS 2". FASTEN ROOF DECK PANELS TO DIAPHRAGM PERIMETER, i.e. EDGE ANGLES, BY ARC SPOT (PUDDLE) WELDS. VERIFY ANCHOR BOLT TYPE AND ANCHOR DIMENSIONS TO THE CONCRETE. CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUES.
- PROVIDE MISCELLANEOUS DECK ACCESSORIES NOT SPECIFICALLY NOTED ON THESE DRAWINGS AS REQUIRED TO SUBSTRATE A COMPLETE DECK INSTALLATION. THESE ACCESSORIES MAY INCLUDE RIDGE AND VALLEY PLATES, FINISH STRIPS, END CLOSURES, REINFORCING CHANNELS, AND WELD COVER PLATES AT CHANGES IN DIRECTION OF DECK PANELS ACCORDING TO DECK MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ACCESSORIES ACCORDING TO APPLICABLE SPECIFICATIONS AND COMMENTARY IN AISC 360, MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS IN THESE DOCUMENTS.
- INSTALL TEMPORARY SHORING BEFORE PLACING DECK PANELS, IF REQUIRED TO MEET DEFLECTION LIMITATIONS.
- PLACE DECK PANELS ON SUPPORTING FRAME AND ADJUST TO FINAL POSITION WITH ENDS ACCURATELY ALIGNED AND BEARING ON SUPPORTING FRAME SUBSTRATE. JOINTS TO BE INSTANTLY FASTENED. DO NOT STRETCH OR CONTRACT SIDELAP INTERLOCKS.

CONCRETE:

- CEMENT SHALL CONFORM TO ASTM C150, TYPE I / II.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C44, 1/2" MAXIMUM SIZE.
- ADMITTURES MAY NOT BE USED WITHOUT PRIOR APPROVAL OF THE ENGINEER. ADMITTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT REDUCE THE STRENGTH OF CONCRETE. FLY ASH (PROZZO) AN IF PERMITTED BY SPECIFICATIONS SHALL NOT EXCEED 25% FOR SLAB ON GRADE AND 25% FOR ALL OTHER CONCRETE.
- THE MIX DESIGN, INCLUDING PROPORTIONS OF MATERIALS FOR ONE YEAR BATCH, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD & ARCHITECT FOR REVIEW PRIOR TO ORDERING CONCRETE.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- ALL REINFORCING BARS AND INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE.
- CONDUITS EMBEDDED HORIZONTALLY IN THE SLAB SHALL HAVE AN OUTSIDE DIAMETER NO GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 4 1/2" THICK, EXCEPT FOR LOCAL OFFSETS. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".
- NON-STRUCTURAL STEEL MEMBERS EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
- ALL NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 pcf. ALL LOW WEIGHT CONCRETE SHALL HAVE MAXIMUM DENSITY OF 115 pcf.
- MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:
 - A. INTERIOR SLAB ON GRADE: f_c (MIN.) = 4,000 psi
 - B. FOOTINGS & ALL OTHER CONCRETE: f_c (MIN.) = 4,000 psi
- PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB ON GRADE AS SHOWN ON PLANS UNLESS SPECIFIED OTHERWISE. LOCATION OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER & ARCHITECT PRIOR TO PLACING REINFORCING STEEL.
- DRY PACK SHALL BE ONE PART CEMENT AND 2-3/4 PARTS SAND WITH JUST ENOUGH WATER TO HYDRATE CEMENT AND FORM A BALL SHOWING MOISTURE ON THE SURFACE. WHEN SECEMENT, IT SHALL BE RAMMED IN TIGHT TO MAXIMUM DENSITY ATTAINABLE, AND SHALL BE FROM A PRODUCT THAT SPECIFIES A MINIMUM STRENGTH AT 28 DAYS OF 5000 psi.
- NON-SHRINK GROUT SHALL BE FROM A PRODUCT THAT SPECIFIES A MINIMUM STRENGTH AT 28 DAYS OF 7,000 psi PER ASTM C109. GROUTING OF BASE PLATES PRIOR TO PLUMBING OF COLUMN IS NOT PERMITTED.
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER OR TOOLED EDGE, UNLESS OTHERWISE NOTED.
- ALL CONCRETE WHICH DURING THE LIFE OF THE STRUCTURE WILL BE SUBJECT TO FREEZING TEMPERATURES WHILE WET, SHALL HAVE A WATER CEMENT RATIO NOT EXCEEDING 0.45 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR PER ACI 614. SUCH CONCRETE SHALL INCLUDE EXTERIOR SLABS, PERIMETER FOUNDATIONS, EXTERIOR CURBS, ETC.

REINFORCING STEEL:

- DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 318, LATEST ADOPTED EDITION.
- ALL REINFORCING SHALL BE ADEQUATELY SUPPORTED TO PREVENT DISPLACEMENT BY CONCRETE PLACEMENT OR WORKERS.
- ALL REINFORCING BARS EXCEPT BARS TO BE WELDED SHALL CONFORM TO THE "STANDARD SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A615 GRADE 60. BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
- WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE-REINFORCING STEEL", AWS D1.4, REINFORCING STEEL TO BE WELDED SHALL HAVE A MAXIMUM CARBON EQUIVALENT (CE) OF 0.75. SPECIAL INSPECTION IS REQUIRED. TESTING IS REQUIRED FOR ALL WELDS THICKER THAN 5/16". USE ASTM A706 WELDABLE REBAR.
- WHERE CONTINUOUS BARS ARE CALLED OUT IN FOOTINGS, SPLICES MAY BE USED, WHERE BARS ARE SHOWN SPLICED, THEY MAY RUN CONTINUOUS AT CONTRACTOR'S OPTION.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- UNLESS OTHERWISE SHOWN, WALL VERTICAL REINFORCING SHALL BE POSITIONED AT THE CENTER OF THE WALL.
- CHANGELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL REINFORCING UNLESS NOTED OTHERWISE.
- ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE COVER:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - a. NO 6 THROUGH NO. 18 BAR.....2"
 - b. NO 5 BAR, W31 OR D31 WIRE AND SMALLER.....1 1/2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND (SLABS, WALLS, JOISTS):
 - a. NO 14 AND NO 18 BAR.....1 1/2"
 - b. NO 11 BAR AND SMALLER.....3/4"
- SLAB ON GRADE REINFORCEMENT SHALL BE POSITIONED AT MID-DEPTH.
- SHOP DRAWINGS FOR SIZE AND LAYOUT OF REINFORCING REBAR ARE REQUIRED.

UNIT MASONRY ASSEMBLIES:

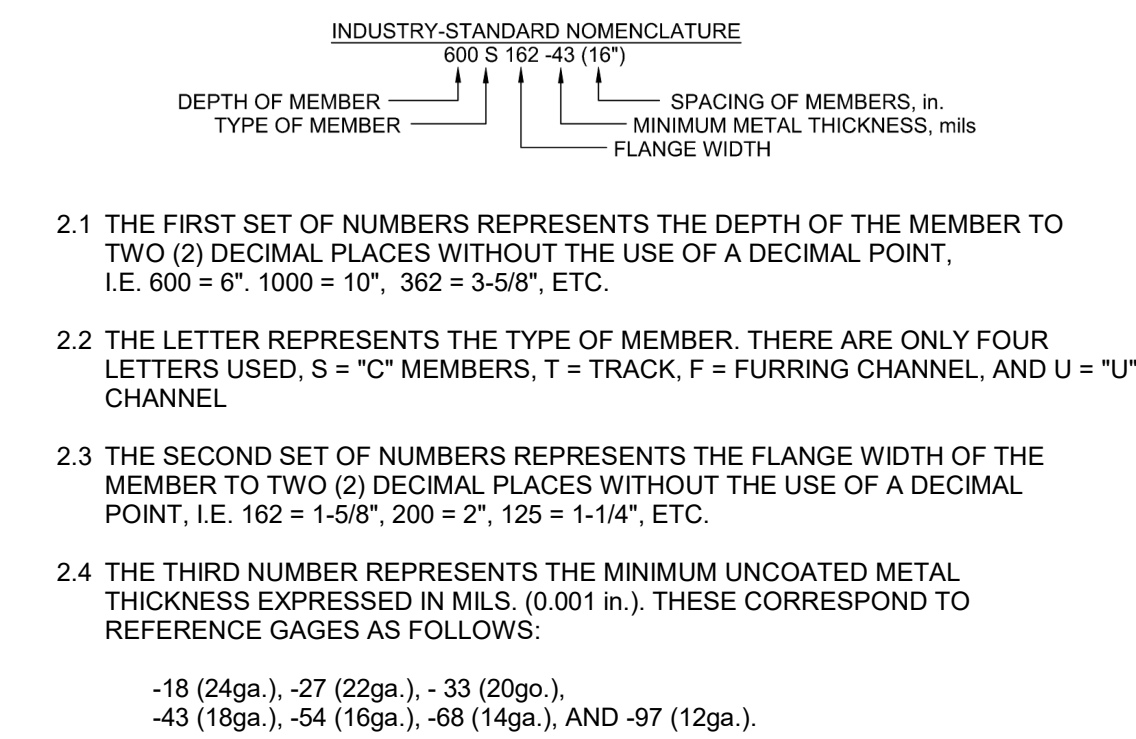
- CONCRETE MASONRY UNITS (CMU) SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY, COMPLY WITH ACI 530.1 "SPECIFICATION FOR MASONRY STRUCTURES" FOR MATERIALS, METHODS, AND WORKMANSHIP AND ERECTION TOLERANCES.
- PROVIDE CONCRETE MASONRY UNIT (MIN 1900 PSI) SO THAT CMU ASSEMBLIES DEVELOPS A MINIMUM NET-AREA COMPRESSIVE STRENGTH (F_m) OF 1500 PSI AT 28 DAYS, AND AS FOLLOWS:
 - A. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 1900 PSI
 - B. WEIGHT CLASSIFICATION: NORMAL WEIGHT, UNLESS OTHERWISE NOTED
 - C. SIZE: MANUFACTURED TO DIMENSIONS 3/8" LESS THAN NOMINAL DIMENSIONS
- BRICK MASONRY ON THIS PROJECT THAT IS A NON-STRUCTURAL VENEER, REFER TO ARCHITECTURAL PLAN AND SPECIFICATIONS FOR ALL MASONRY VENEER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO: FLASHING REQUIREMENTS, COURSING, CORBELING REQUIREMENTS, EXPANSION/CONTROL JOINT REQUIREMENTS AND SPACING AND WEED PAPER LOCATION AND SPACING.
- PROVIDE MORTAR AND GROUT MATERIALS AS INDICATED ON THE DRAWINGS AND CONFORMING TO THE REQUIREMENTS LISTED BELOW. ALL CELLS CONTAINING REINFORCEMENT SHALL BE BELOW GROUND, AND ALL LOCATIONS NOTED ON THE DRAWINGS SHALL BE GROUTED SOLID. DO NOT USE ADMIXTURES, INCLUDING AIR-ENTRAINING AGENTS, ACCELERATORS, RETARDERS, WATER-REDUCING AGENTS, ANTIFREEZE COMPOUNDS, OR OTHER ADMIXTURES UNLESS OTHERWISE NOTED. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT.
 - A. MORTAR FOR MASONRY ASSEMBLIES SHALL BE TYPE S, CONFORMING TO ASTM C270
 - B. GROUT FOR UNIT MASONRY SHALL BE FINE GROUT CONFORMING TO ASTM C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (F_m) OF 3000 PSI. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES AS MEASURED ACCORDING TO ASTM C143. COMPLY WITH TABLE 1.15.1 IN ACI 530.1 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHT

ADHESIVE, ANCHOR RODS AND REBAR IN HARDENED CONCRETE (EPOXY ANCHORS):

- ALL ADHESIVE ANCHOR INSTALLATIONS SHALL COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS, INCLUDING ANY ICC-ES REPORTS.
- DUST SHALL BE BLOWN FROM THE HOLE WITH COMPRESSED AIR TO ENSURE PROPER ANCHOR SEATING. DEPTH AND ANCHOR LENGTH SHALL BE MEASURED ON SURFACE. ADDITIONALLY, THE HOLE SHALL BE BRUSHED WITH A NYLON BRUSH THEN BLOWN AGAIN WITH COMPRESSED AIR.
- ADHESIVE SHALL ONLY BE APPLIED TO DRY SURFACES.
- BASE MATERIAL TEMPERATURE MUST BE 40°F OR ABOVE AT TIME OF INSTALLATION. FOR BEST RESULTS, MATERIAL SHOULD BE 70°F-80°F.
- WHEN INSTALLING EPOXY ANCHORS INTO CONCRETE, ANCHORS SHALL BE INSTALLED IN SOLID GROUTED CELLS ONLY.
- CHEMICAL ANCHOR SYSTEMS:
 - A. CONCRETE TO BE USED ONLY THE ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN ISSUED AN ICC-ES REPORT IN ACCORDANCE WITH PROVISIONS OF ICC-ES AC308. ANCHOR SYSTEM SHOULD BE APPROVED FOR USE IN CRACKED CONCRETE AND SEISMIC DESIGN CATEGORY A-F PER EDITION 1.5 OF THE ICC-ES EVALUATION SERVICES REPORT. ANCHOR SYSTEM SHALL BE INSTALLED PER REQUIREMENTS OF THE ICC-ES EVALUATION SERVICES REPORT FOR SPECIFIC ANCHOR, AND AS REQUIRED BY THE MANUFACTURER.
 - B. ALL ANCHOR RODS SHALL BE ASTM 136 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANSI B18.2 1" TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS SHALL USE ASTM A563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS.
 - C. REINFORCEMENT BARS: ASTM A615 GRADE 60 STEEL.
 - D. REMOVED GREASE, OIL, RUST AND ANY OTHER LANTANCE FROM RODS AND WELDS PRIOR TO INSTALLATION.
 - E. SPECIAL INSPECTION REQUIREMENTS WILL BE DICTATED BY SECTION 4.0 OF THE ICC-ES EVALUATION SERVICES REPORT. ANY SPECIAL INSPECTION SHALL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE STRENGTH, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUES.
- CONTRACTOR'S OPTION TO USE OTHER MANUFACTURER'S PRODUCTS ONLY WITH PRIOR APPROVAL OF THE ENGINEER & ARCHITECT. SUBMIT MANUFACTURER'S LITERATURE AND PRODUCT INSTALLATION FOR REVIEW.

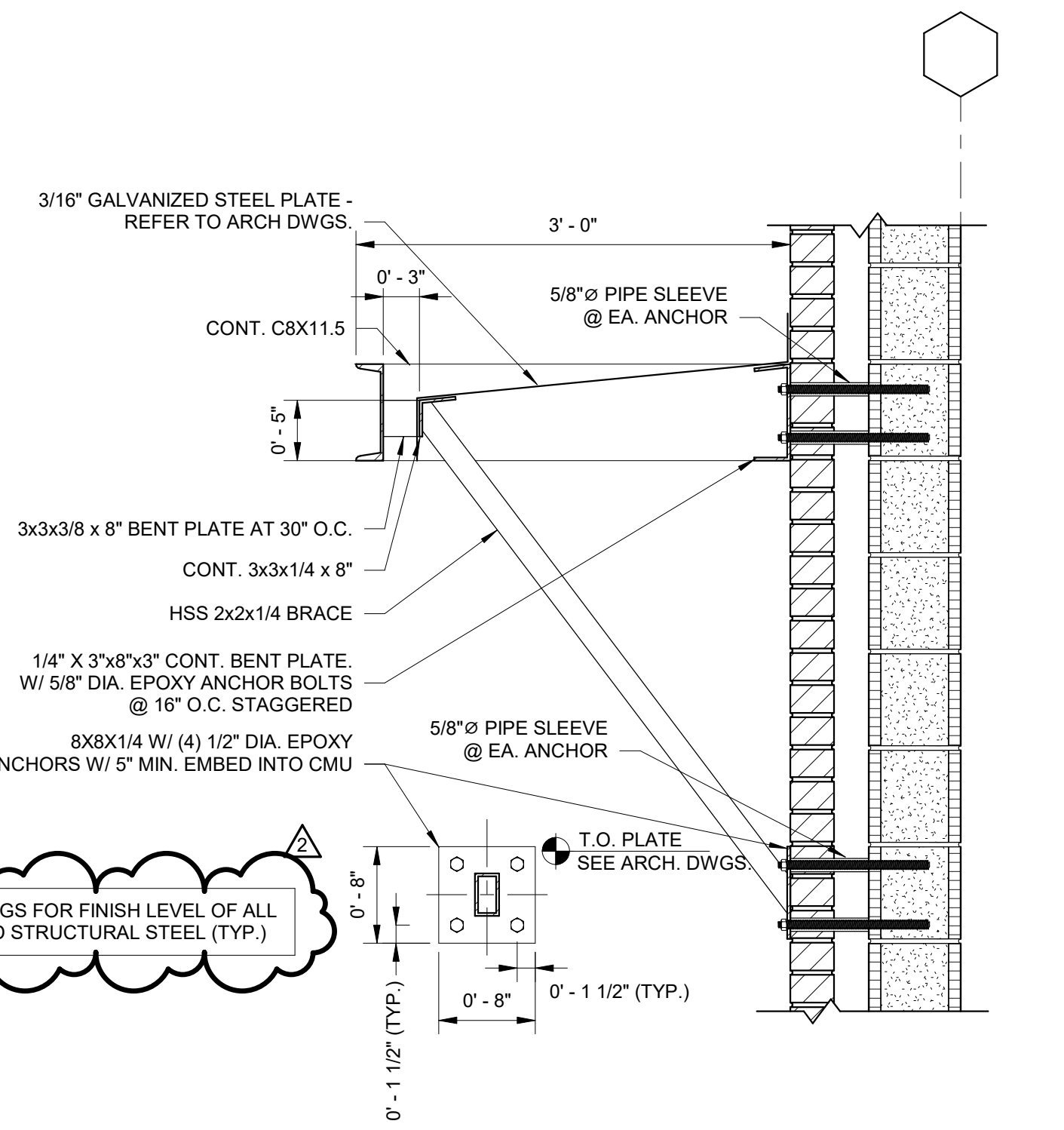
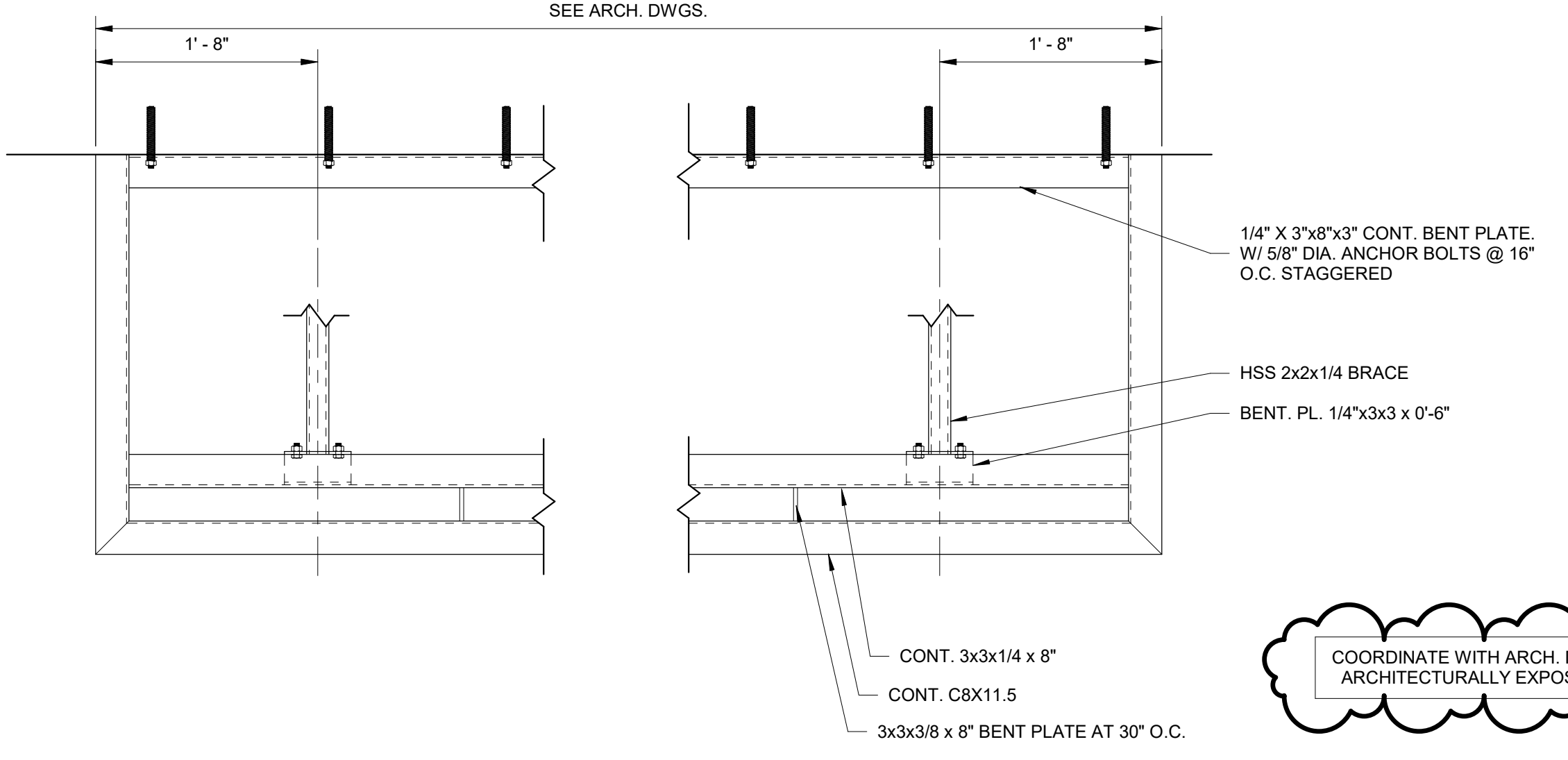
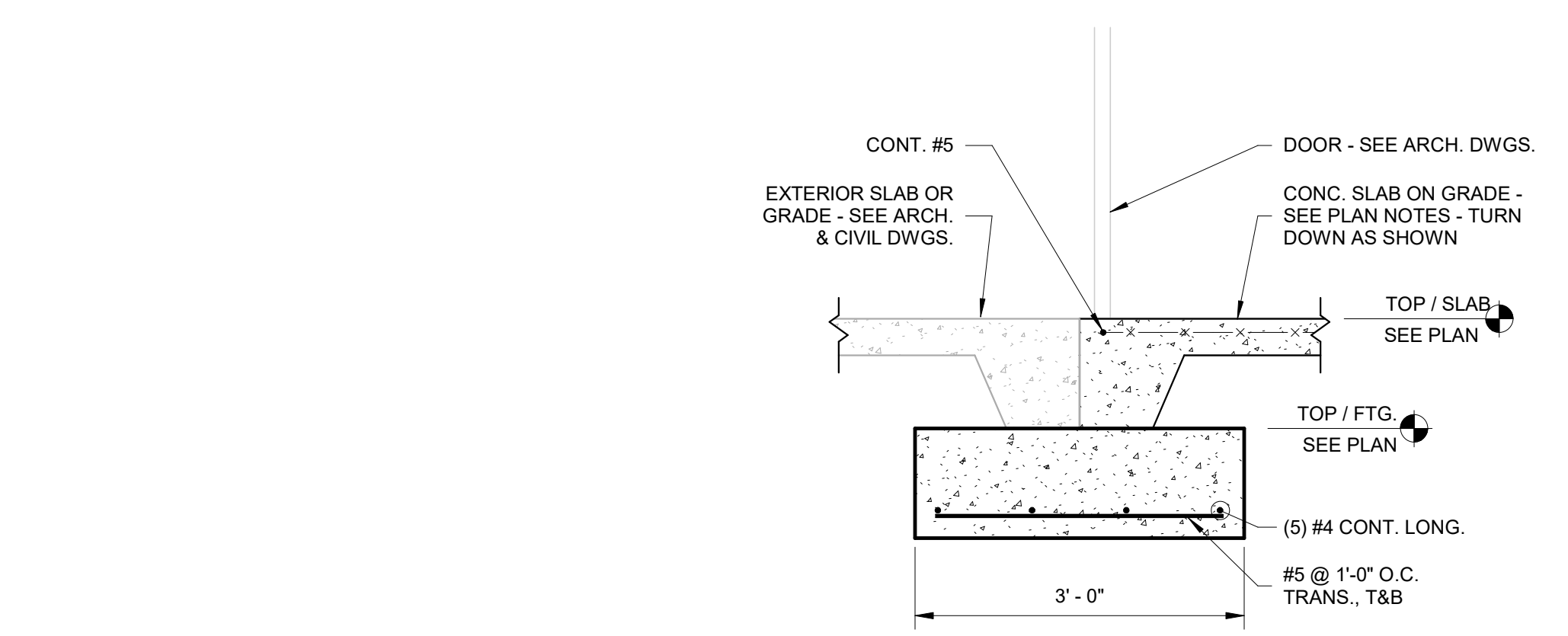
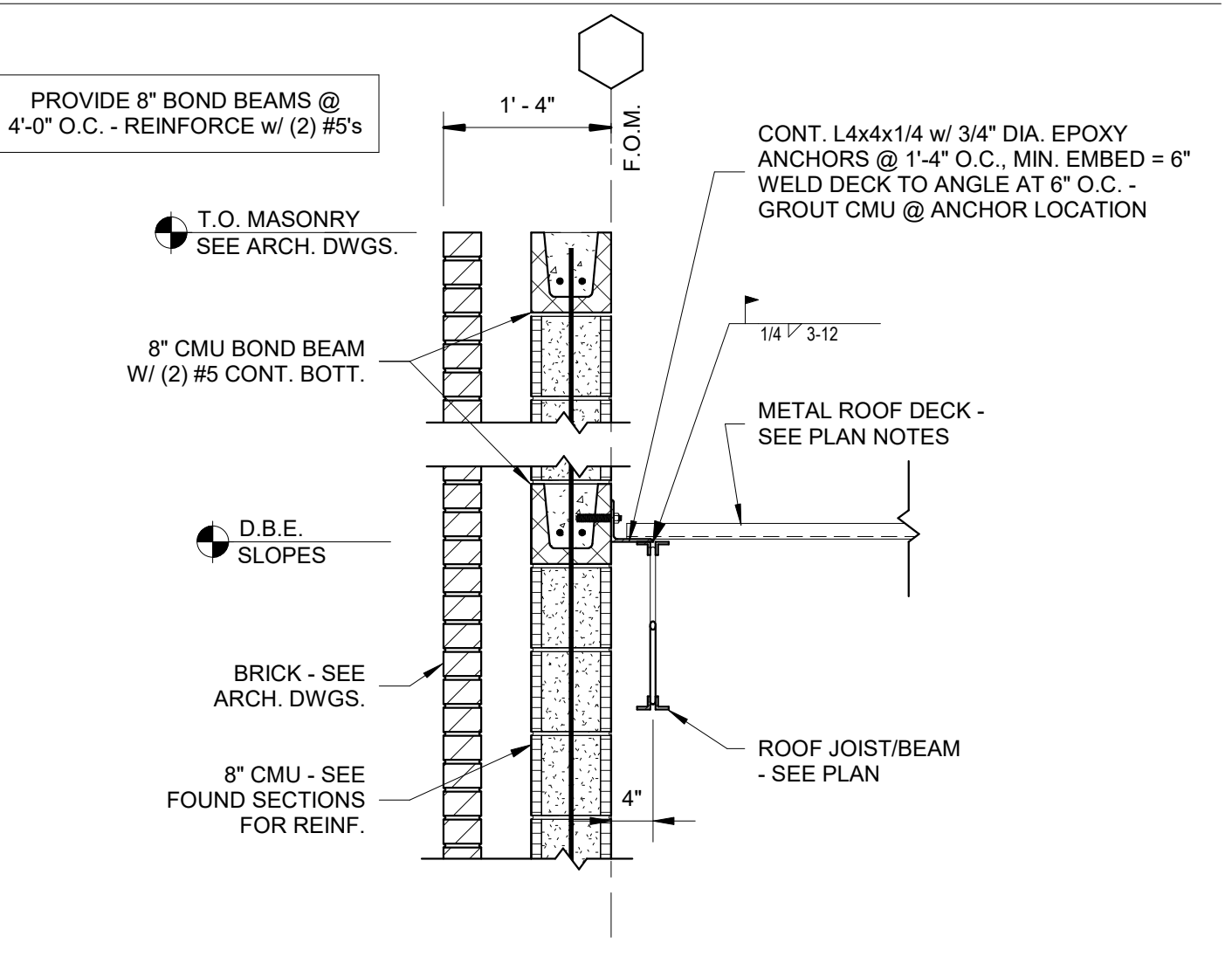
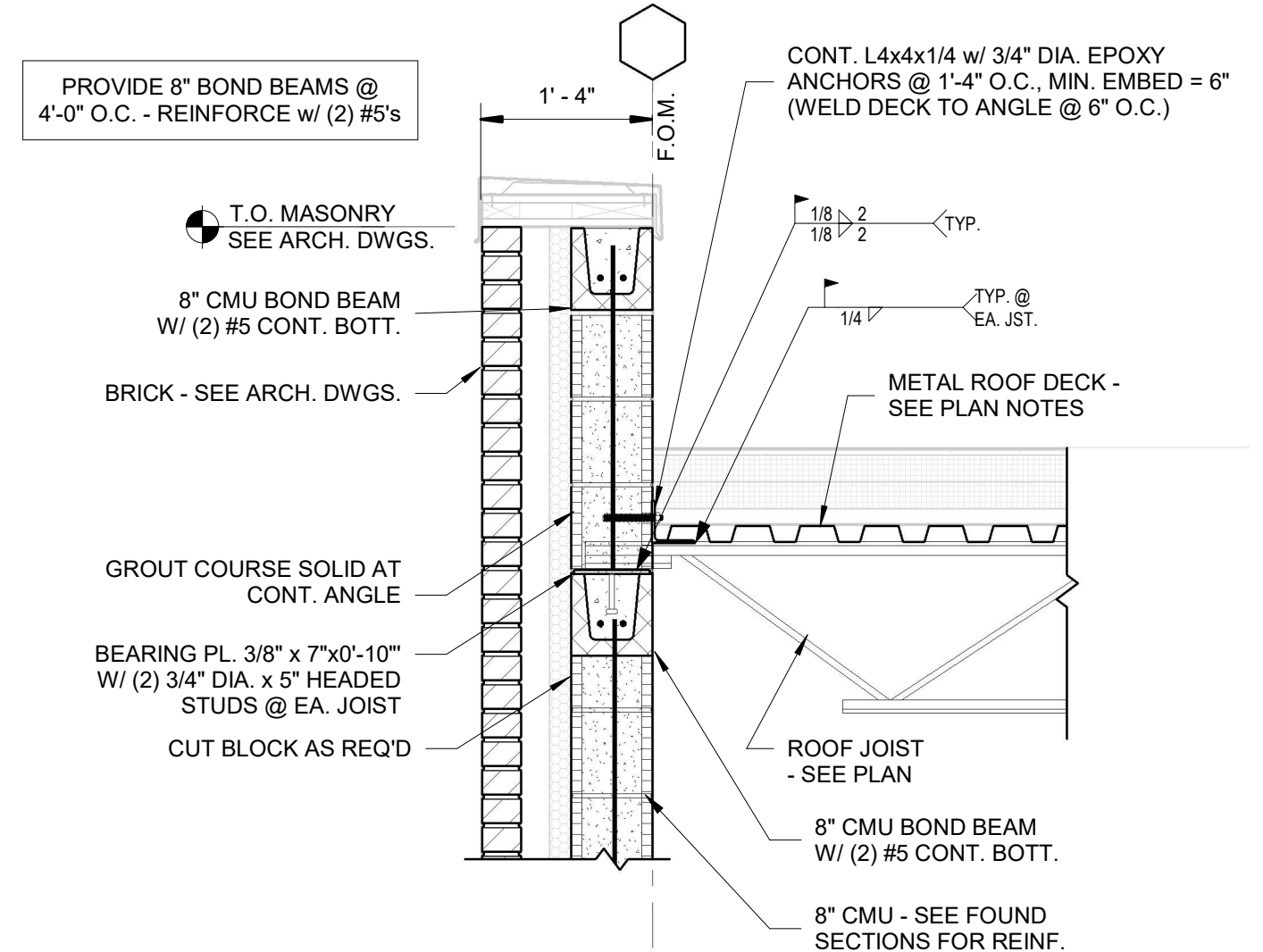
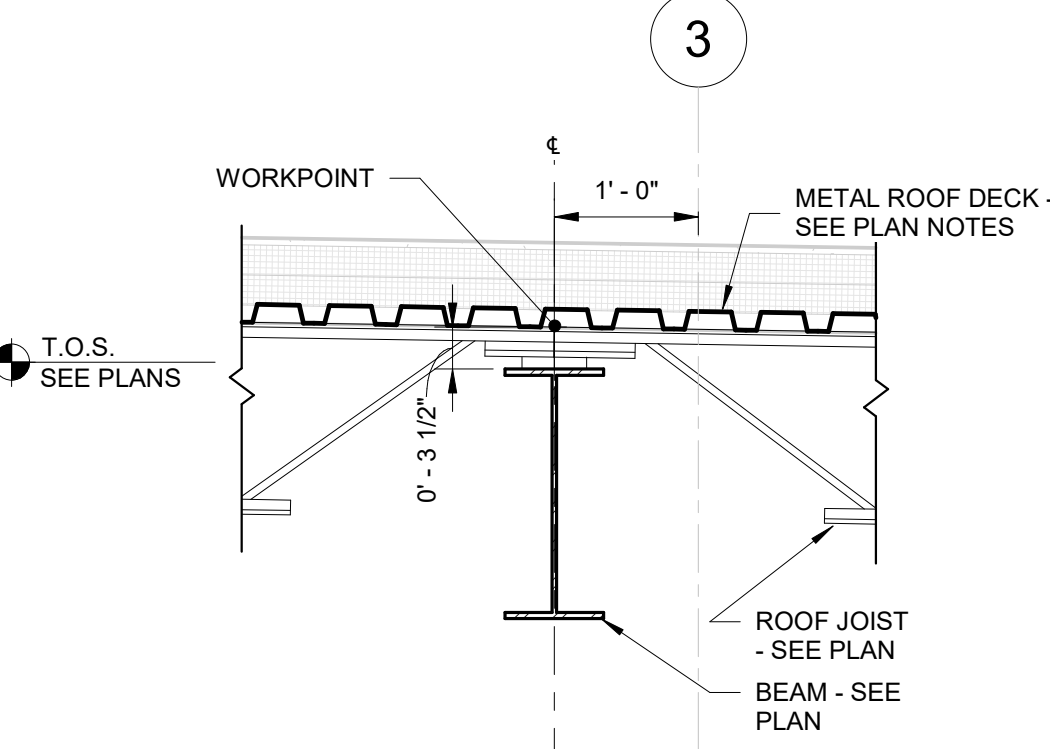
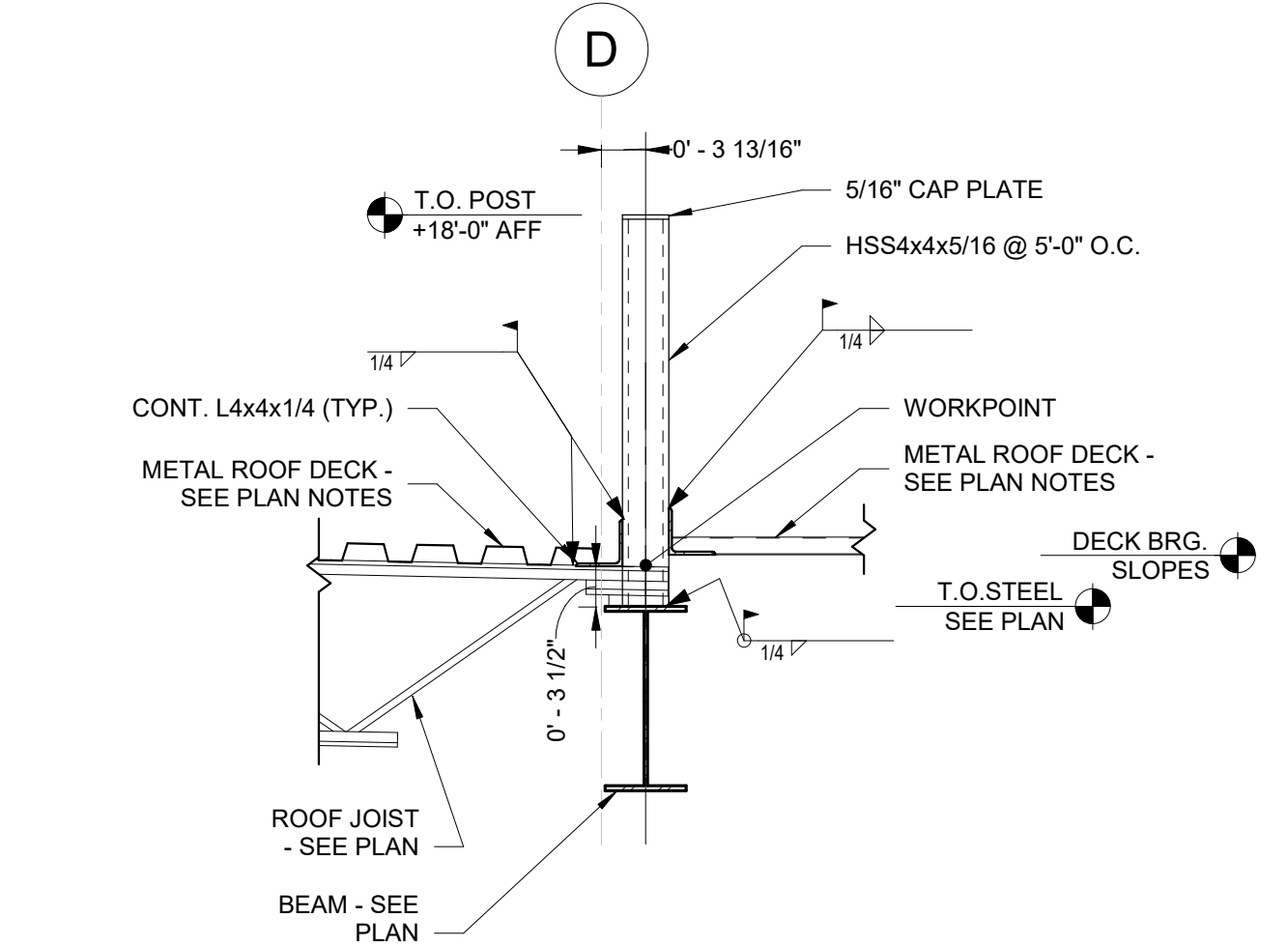
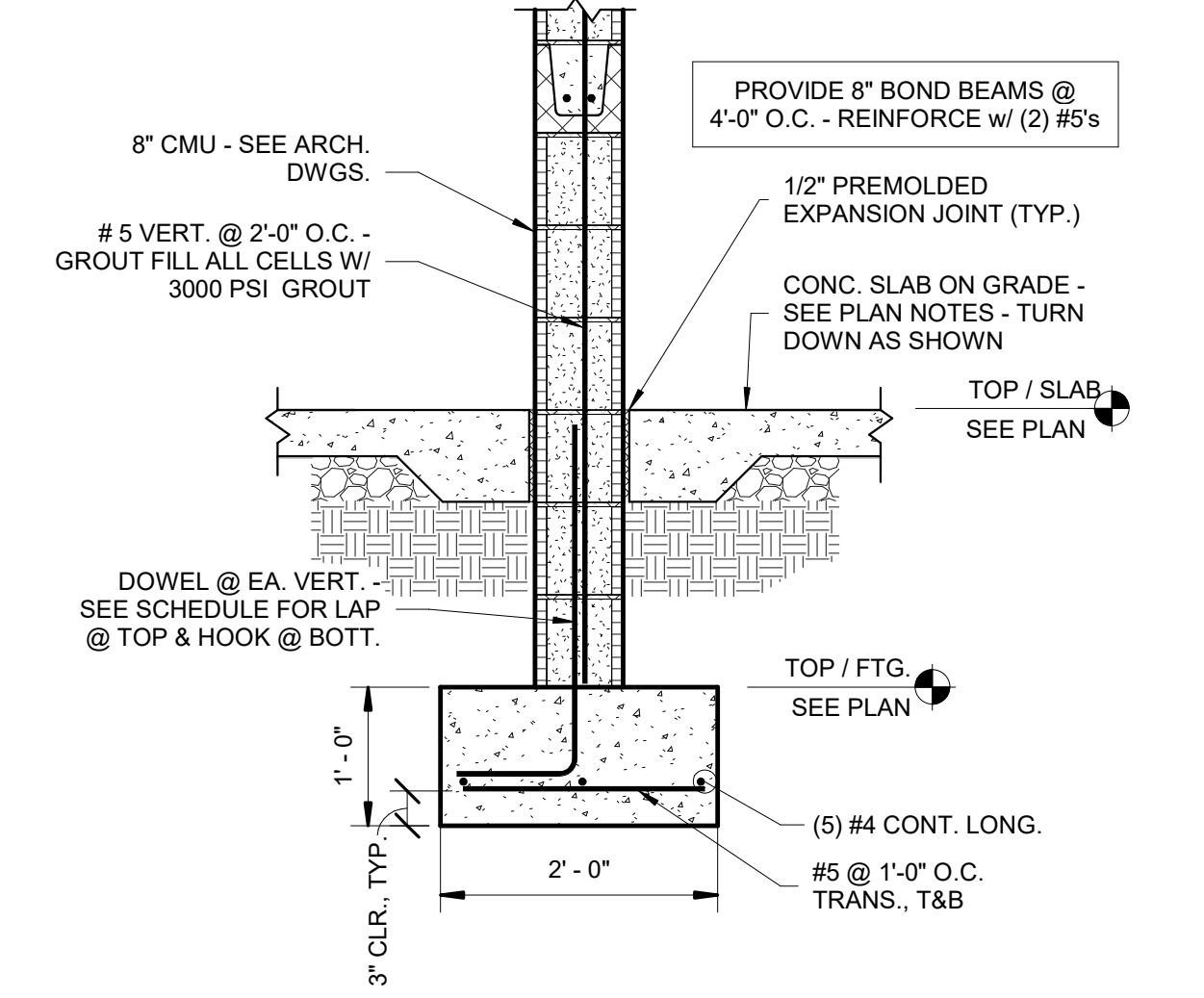
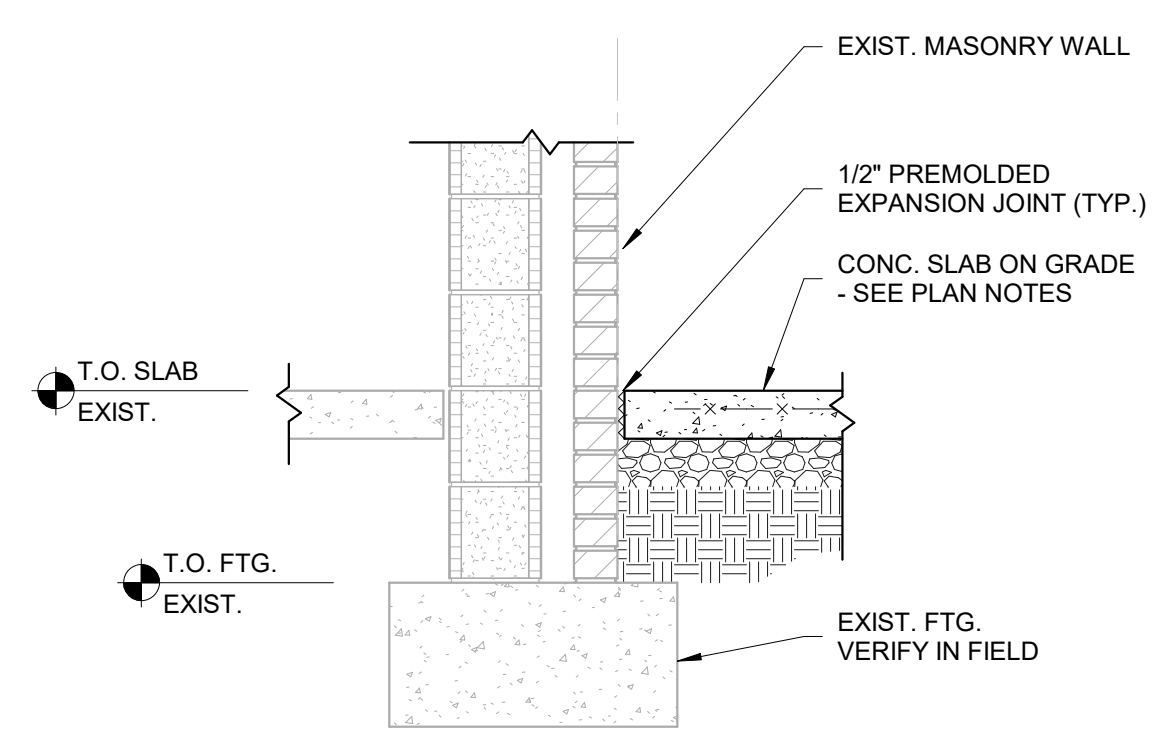
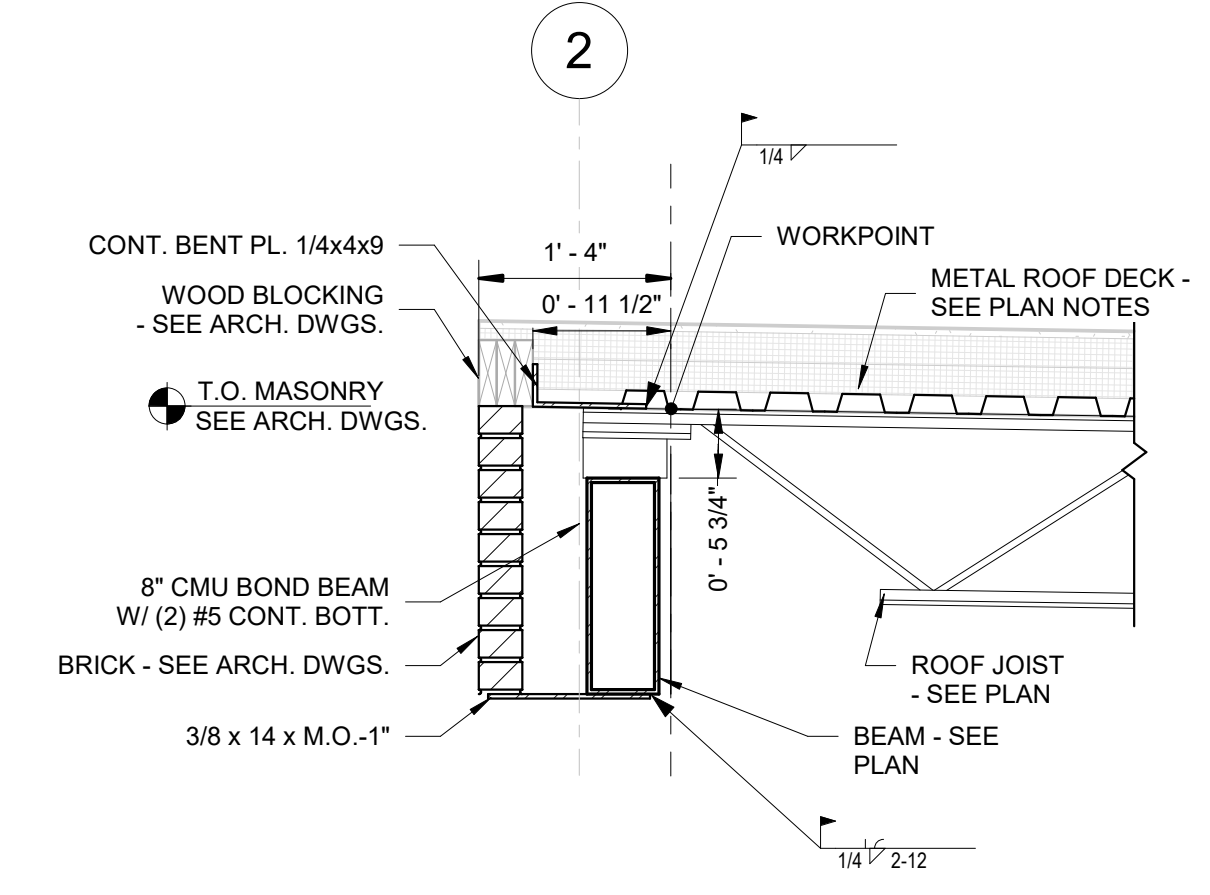
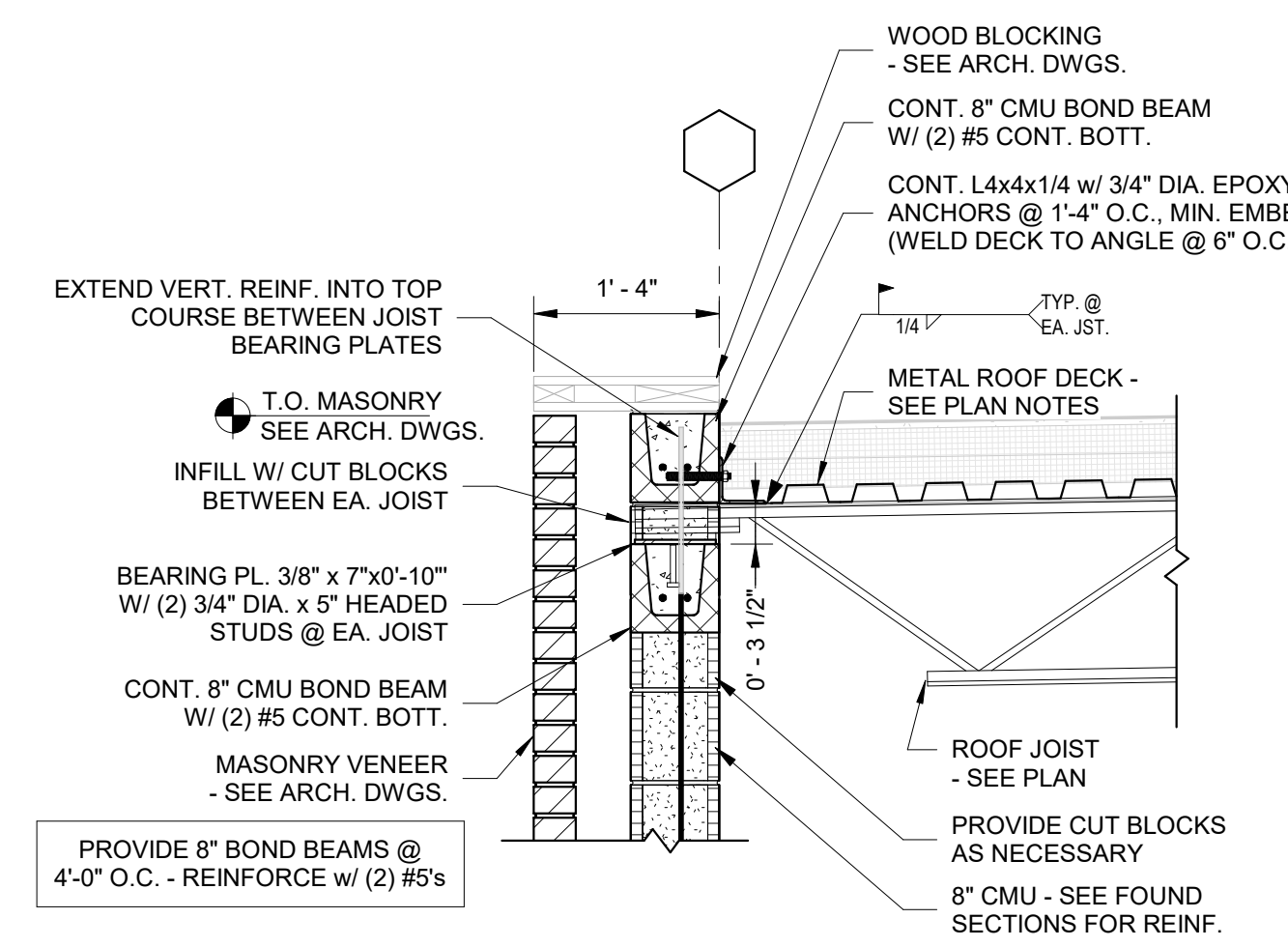
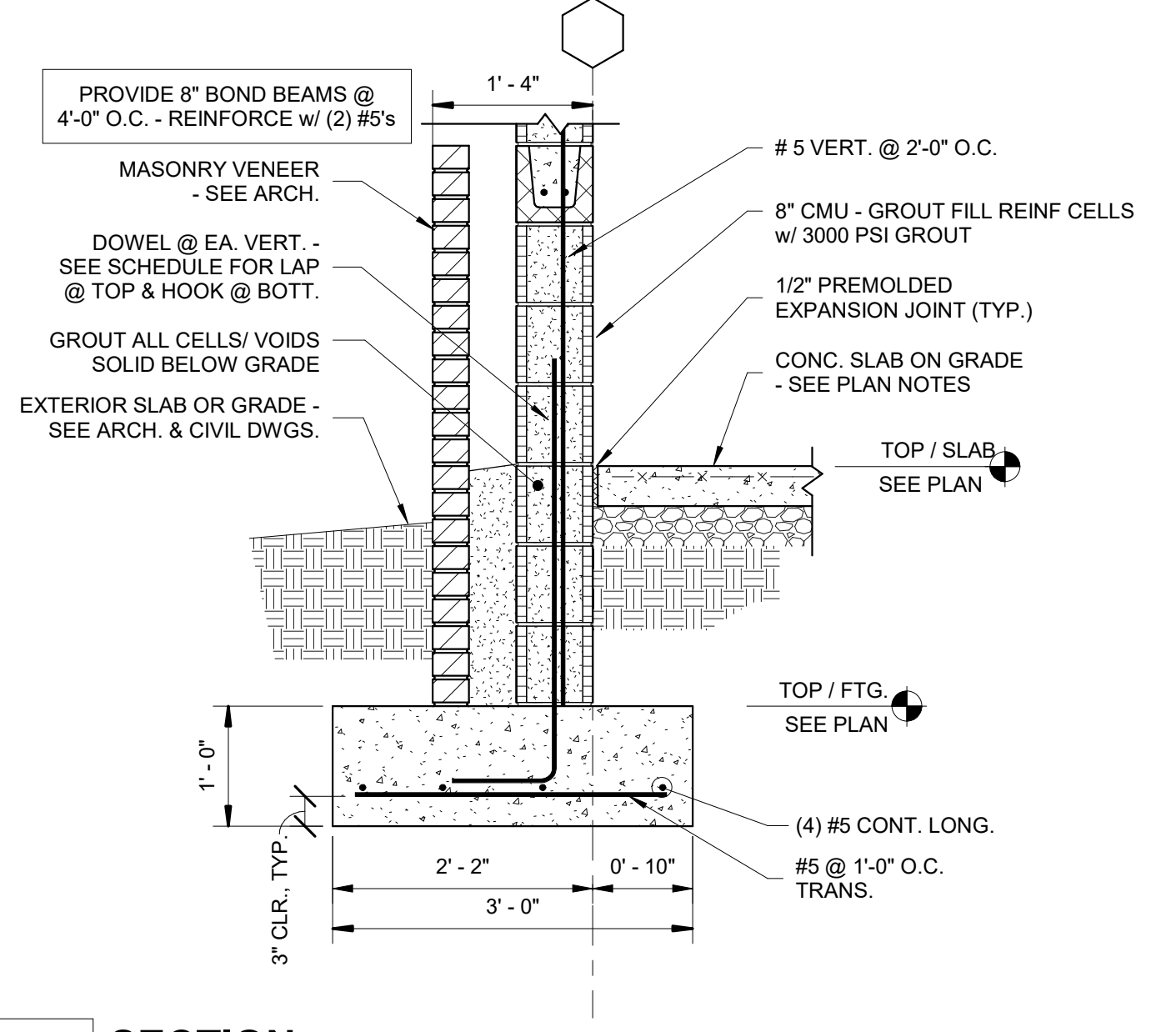
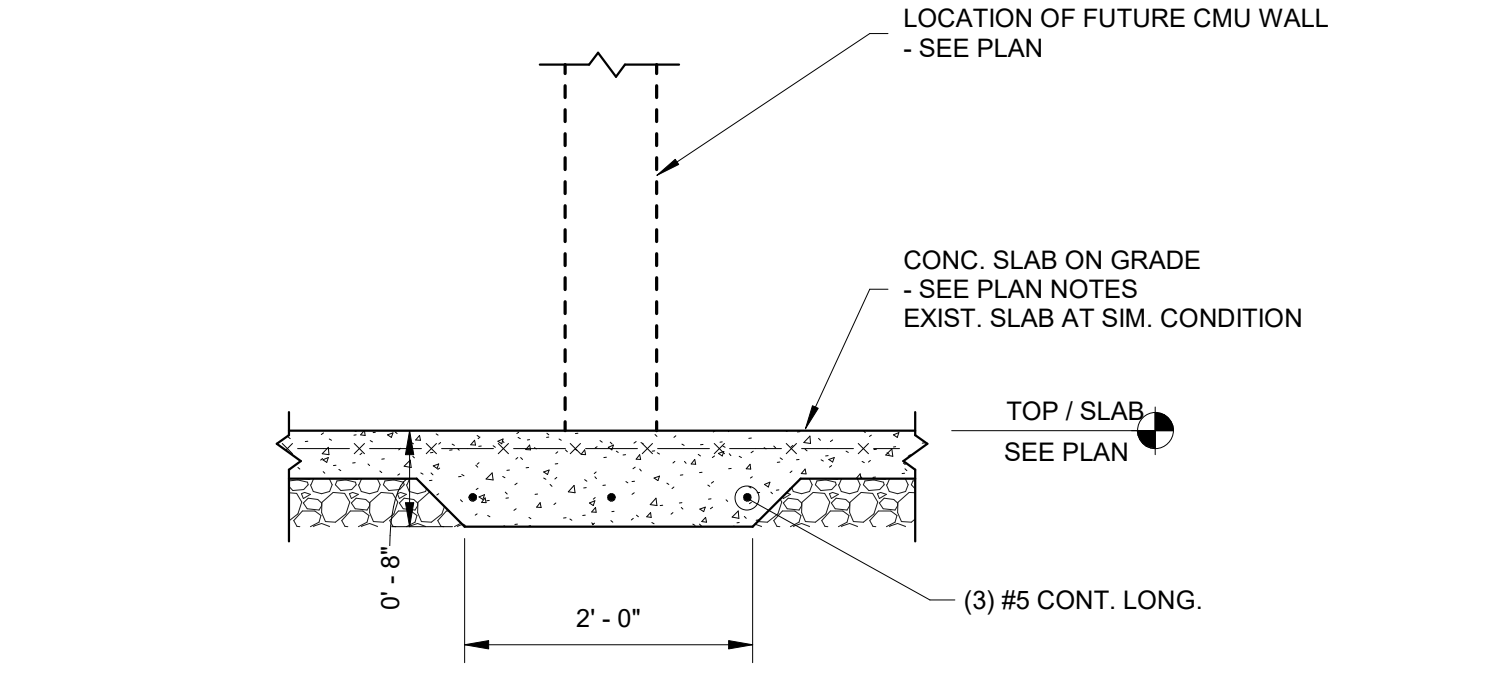
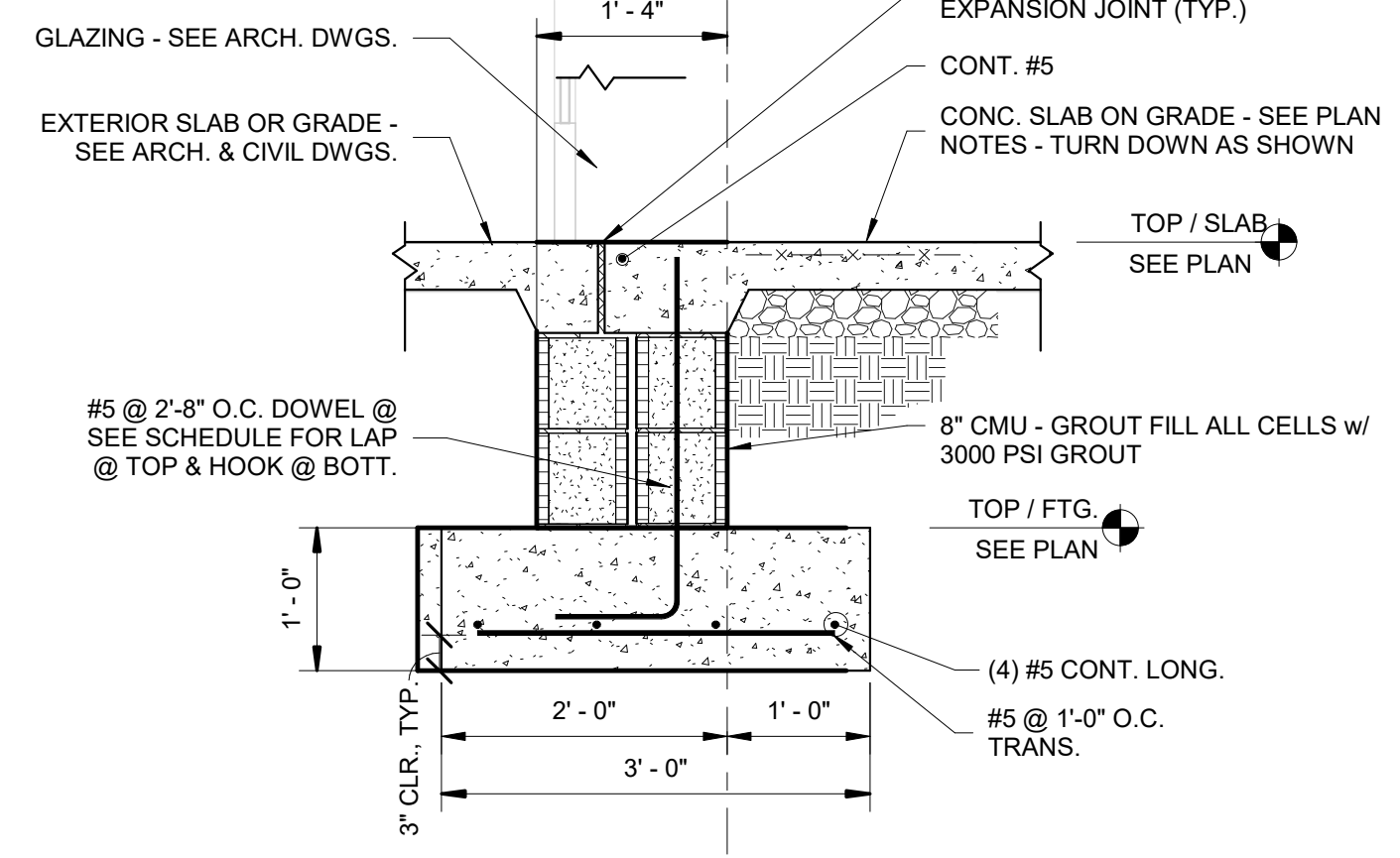
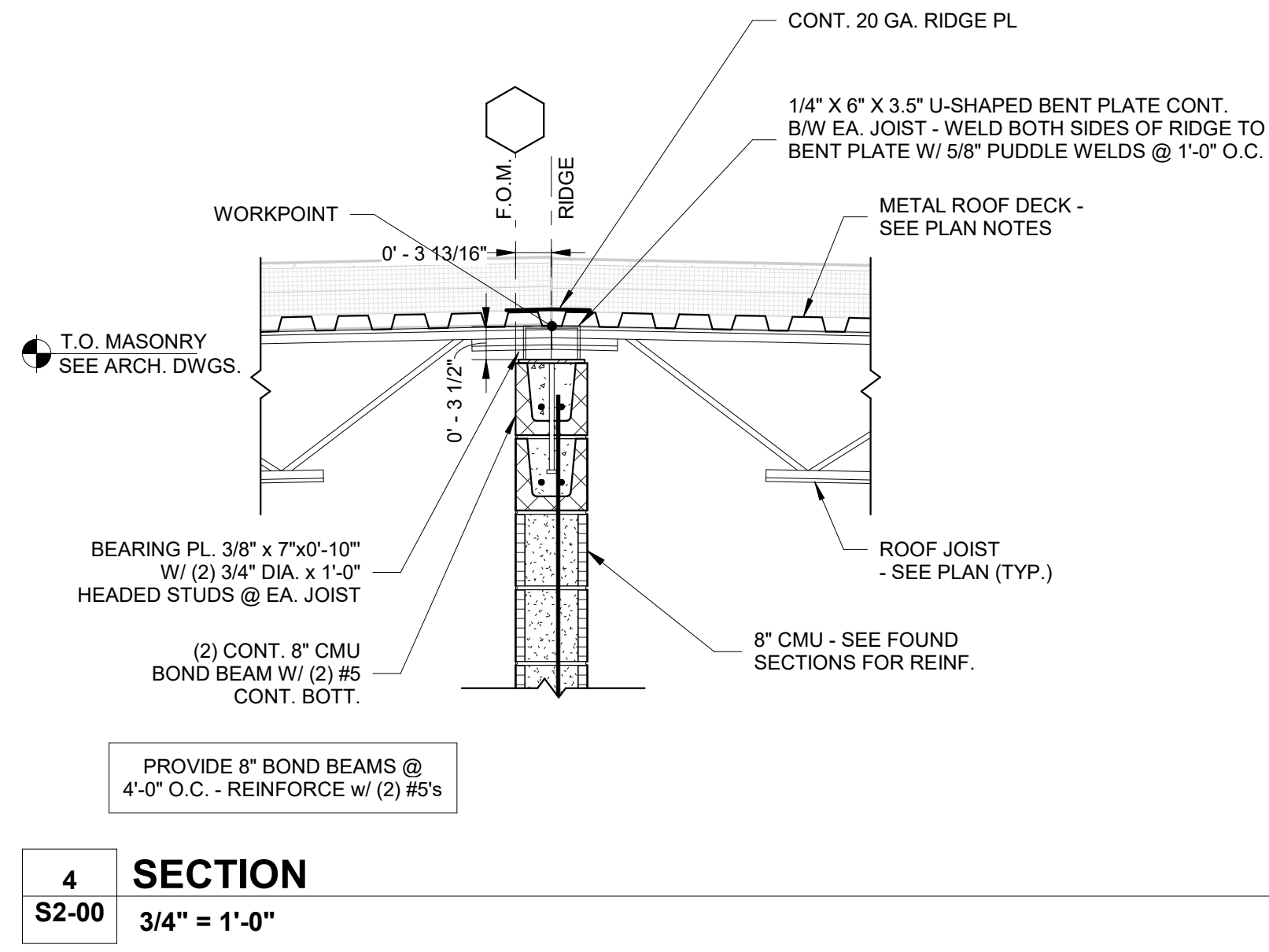
COLD-FORMED METAL FRAMING:

- LIGHT GAGE STRUCTURAL STEEL FRAMING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISI'S "STANDARDS FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS".
- LIGHT GAGE STRUCTURAL STEEL FRAMING AS SHOWN ON THESE PLANS CONFORMS TO THE INDUSTRY-STANDARD NOMENCLATURE. EXPLANATION OF THIS NOMENCLATURE IS SHOWN BELOW FOR REFERENCE.



- THE FIRST SET OF NUMBERS REPRESENTS THE DEPTH OF THE MEMBER TO TWO (2) DECIMAL PLACES WITHOUT THE USE OF A DECIMAL POINT, I.E. 600 = 6", 1000 = 10", 362 = 3'-6", ETC.
- THE LETTER REPRESENTS THE TYPE OF MEMBER. THERE ARE ONLY FOUR LETTERS USED, S = "C" MEMBERS, T = TRACK, F = FURRING CHANNEL, AND U = "U" CHANNEL.
- THE SECOND SET OF NUMBERS REPRESENTS THE FLANGE WIDTH OF THE MEMBER TO TWO (2) DECIMAL PLACES WITHOUT THE USE OF A DECIMAL POINT, I.E. 162 = 1'-6", 200 = 2", 125 = 1'-1/4", ETC.
- THE THIRD NUMBER REPRESENTS THE MINIMUM UNCOATED METAL THICKNESS EXPRESSED IN MILS. (0.001 in.). THESE CORRESPOND TO REFERENCE GAGES AS FOLLOWS:
 - 18 (24ga.), -27 (22ga.), -33 (20ga.), -43 (18ga.), -54 (16ga.), -68 (14ga.), AND -97 (12ga.)
- THE MILS DEFINE THE MINIMUM ALLOWABLE UNCOATED METAL THICKNESS AND ARE LESS THAN THE DESIGN THICKNESS. THE 5% VARIANCE IN METAL THICKNESS IS PERMITTED PER SECTION 3.4 OF THE AISI SPECIFICATION.
- THE LAST NUMBER DENOTED IN (W)

Altodesk Docs://tucker Creek Middle School Addition/Tucker Creek Classroom Addition, Structure_R24.rvt
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COORDINATE WITH ARCH. DWGS FOR FINISH LEVEL OF ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (TYP.)

CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION

200 Sermons Blvd.
Havelock, NC 28532

ID	DATE	DESCRIPTION
2	30 MAY 2025	ADDENDUM 2

DRAWN BY: HON
CHECKED BY: AKW
SECTIONS

2024004 30 MAY 2025

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sinnett
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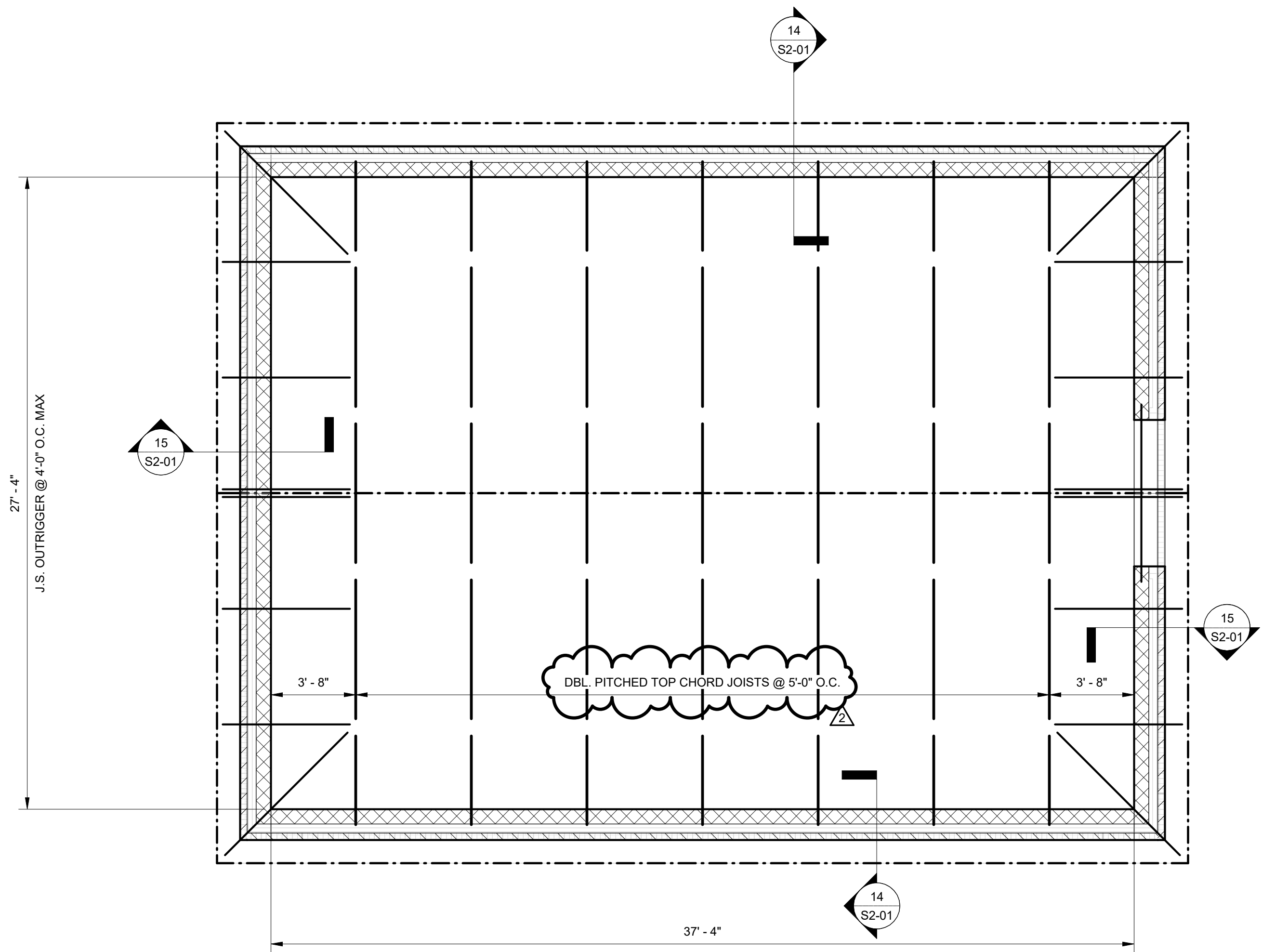
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PROFESSIONAL
SEAL
05/30/2025
ARCHITECT
THOMAS K. WARR
NORTH CAROLINA

CONSTRUCTION DOCUMENTS

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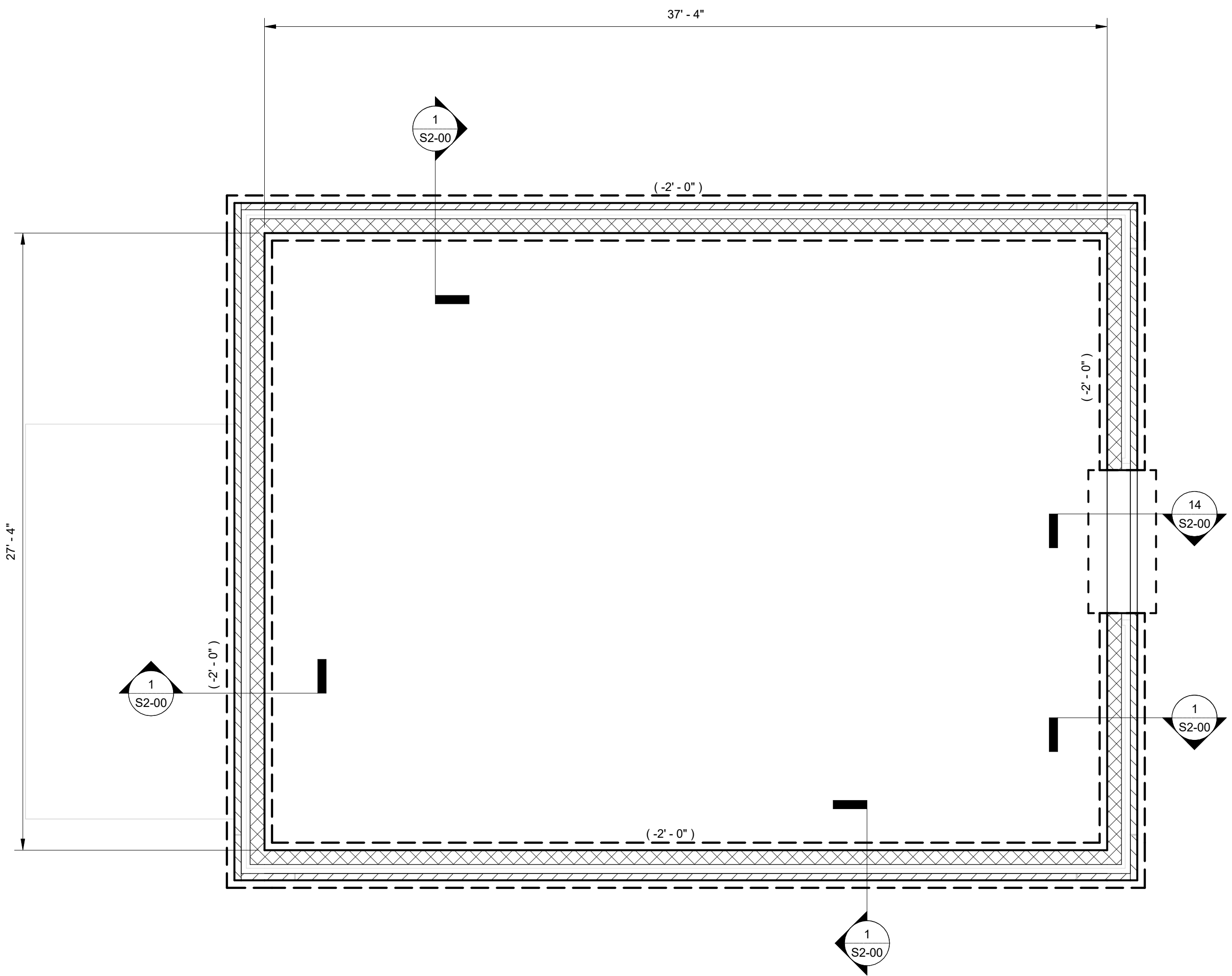
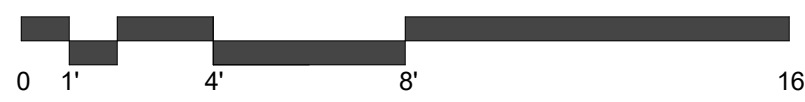


Roof Framing Plan Notes:

1. Entire area shall receive 1 1/2" x 2" Gage Type B, galvanized metal roof deck.
2. Unless noted otherwise, use typical roof deck attachment detail on Sheet S0-02.
3. All roof joists/trusses to be spaced at 5'-0" o.c. max., unless noted otherwise.
4. Provide purlins/bracing as required by the Steel Joist Institute.
5. See Typical Construction Details on Sheet S0-01, S0-02, and S0-03.
6. See General Notes on Sheet S0-01.

2 ROOF FRAMING PLAN - PE STORAGE BLDG.

S9-02 1/4" = 1'-0"

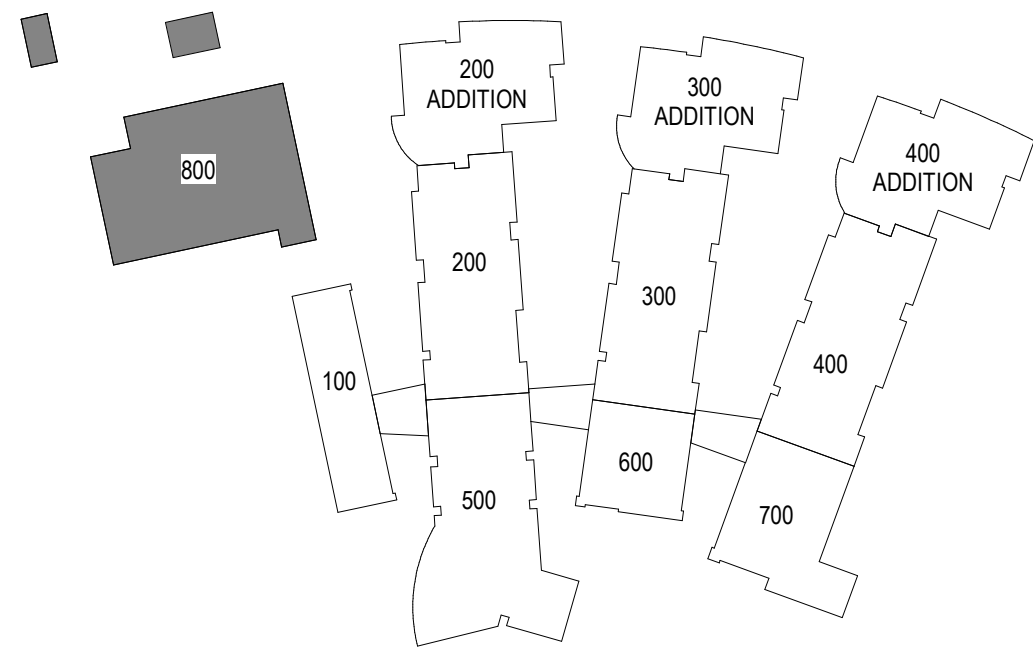
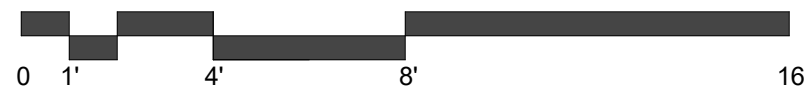


Foundation Plan Notes:

1. Entire area shall receive 4" concrete slab on grade reinforced with 6 X 6 - W2.1 X W2.1 welded wire reinforcing, unless noted otherwise. Slab shall bear on 4" of compacted, porous fill. Provide vapor barrier between slab and porous fill.
2. C.J. (construction or control joints - contractor's option) shall be placed at each column centerline, and immediately spaced at 12'-0" o.c. max. each way between column centerlines. See typical detail on sheet S0-02.
3. F on plan indicates a column footing. See typical detail and schedule on Sheet S0-02.
4. Marks shown thus (+x'-x'") indicate top of footing. Contractor shall coordinate top of footing elevations with architectural, mechanical, electrical, plumbing, and civil drawings. The Structural Engineer shall be notified of conflicts or discrepancies in top of footing elevations.
5. Contractor shall coordinate with site drawings and provide footing steps as required. See typical detail on Sheet S0-02.
6. Finish slab elevation shall be 0'-0", unless noted thus (-'-'-") on plan.
7. See Typical Construction Details on Sheets S0-02 + S0-03.
8. See General Notes on Sheet S0-01.

1 FOUNDATION PLAN - PE STORAGE BLDG.

S9-02 1/4" = 1'-0"



KEY PLAN

**CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION**

**200 Sermons Blvd,
Havelock, NC 28532**

ID	DATE	DESCRIPTION
2	30 MAY 2025	ADDENDUM 2

DRAWN BY: HON
CHECKED BY: AKW

**ALT 2 - P.E.
STORAGE BLDG. -
FOUNDATION /
FRAMING PLANS**
2024004 30 MAY 2025



S9-02

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sinnett**
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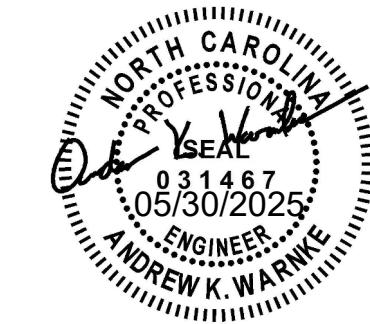
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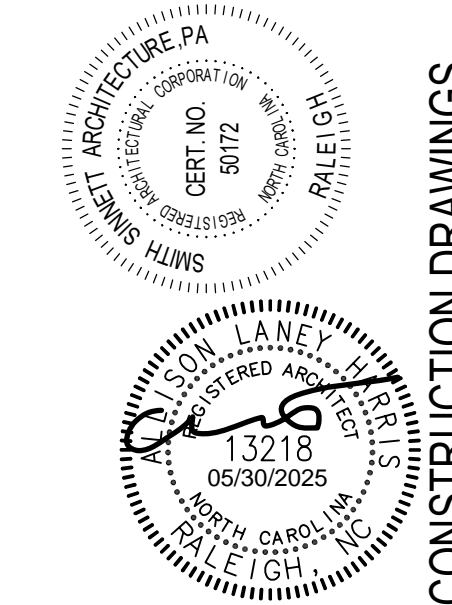


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Smith Sinnett Architecture, P.A. 2022

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CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION200 Sermons Blvd.,
Havelock, NC 28532

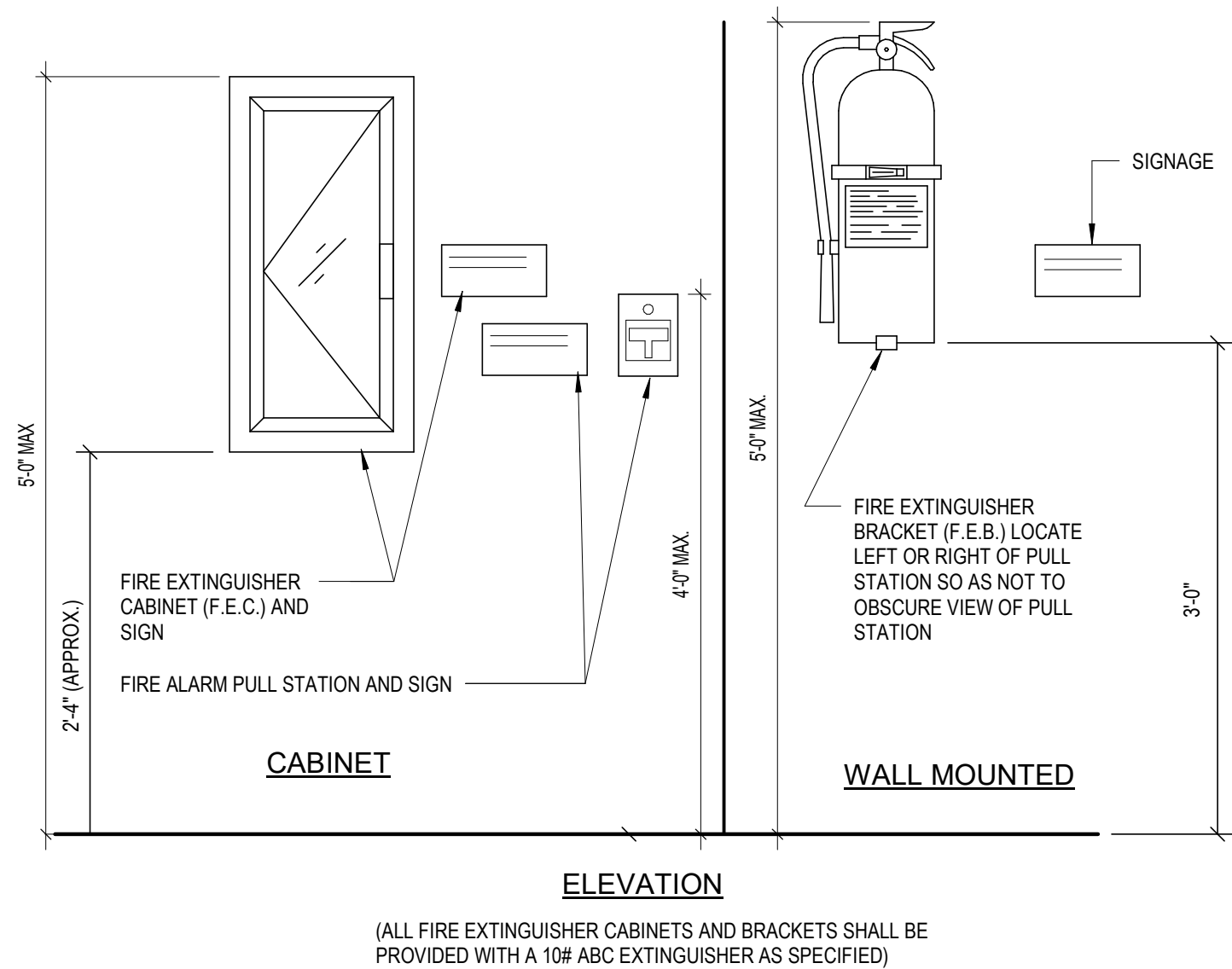
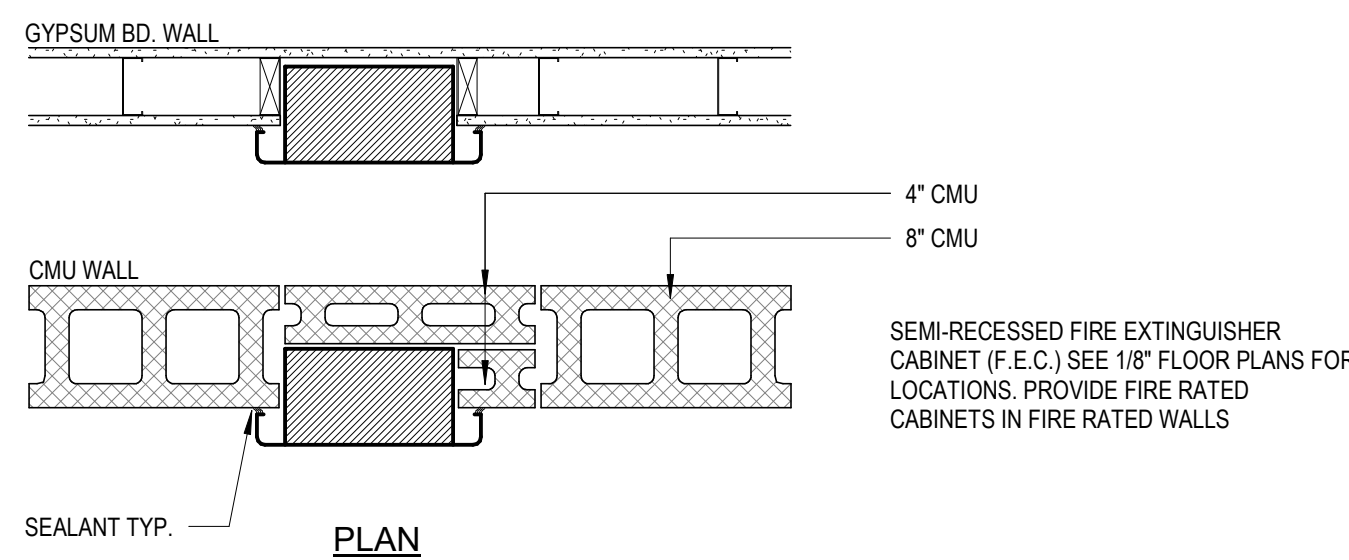
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ID	DATE	DESCRIPTION

DRAWN BY: AH, BB
CHECKED BY: DW, AH
PLAN DETAILS

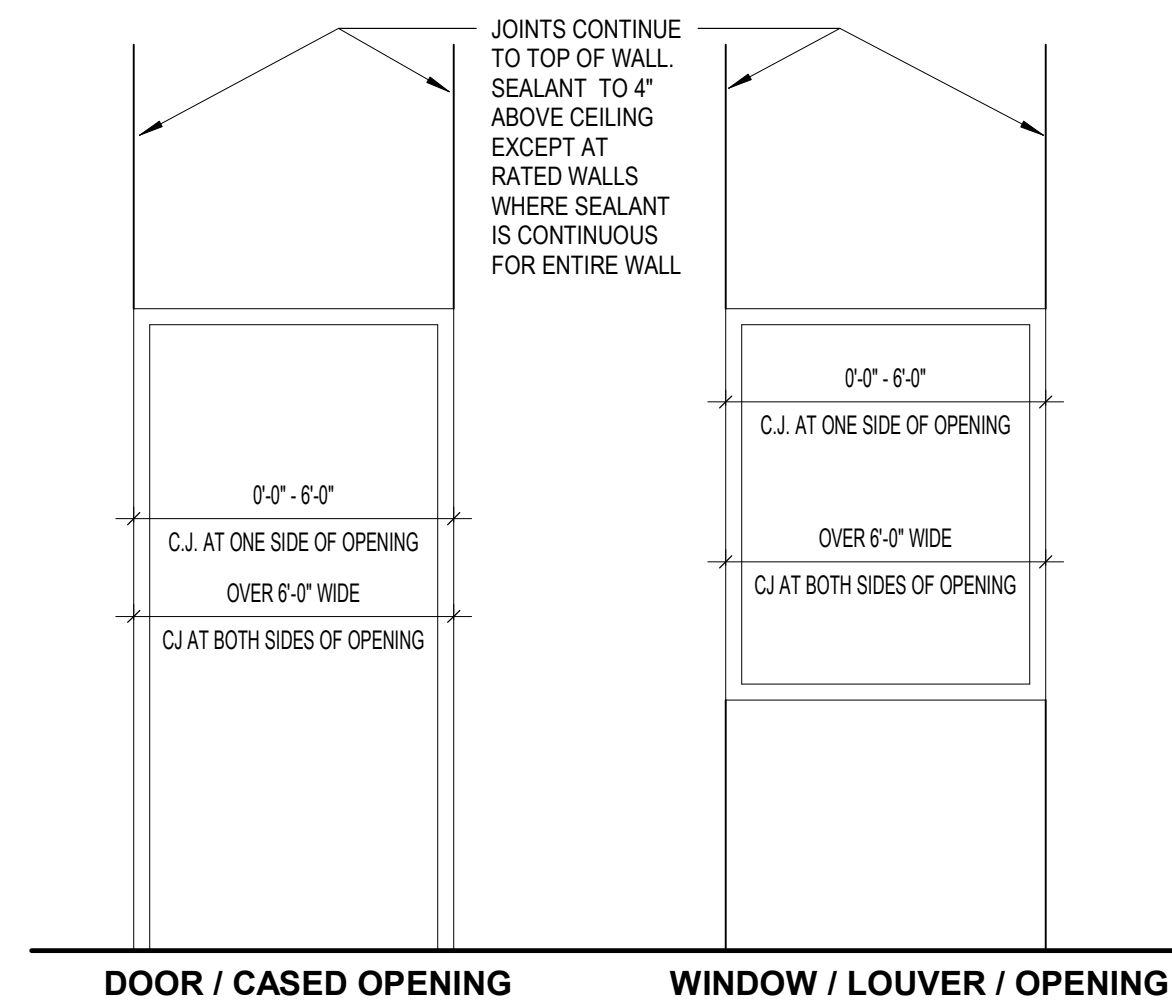
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14 MAY 2025

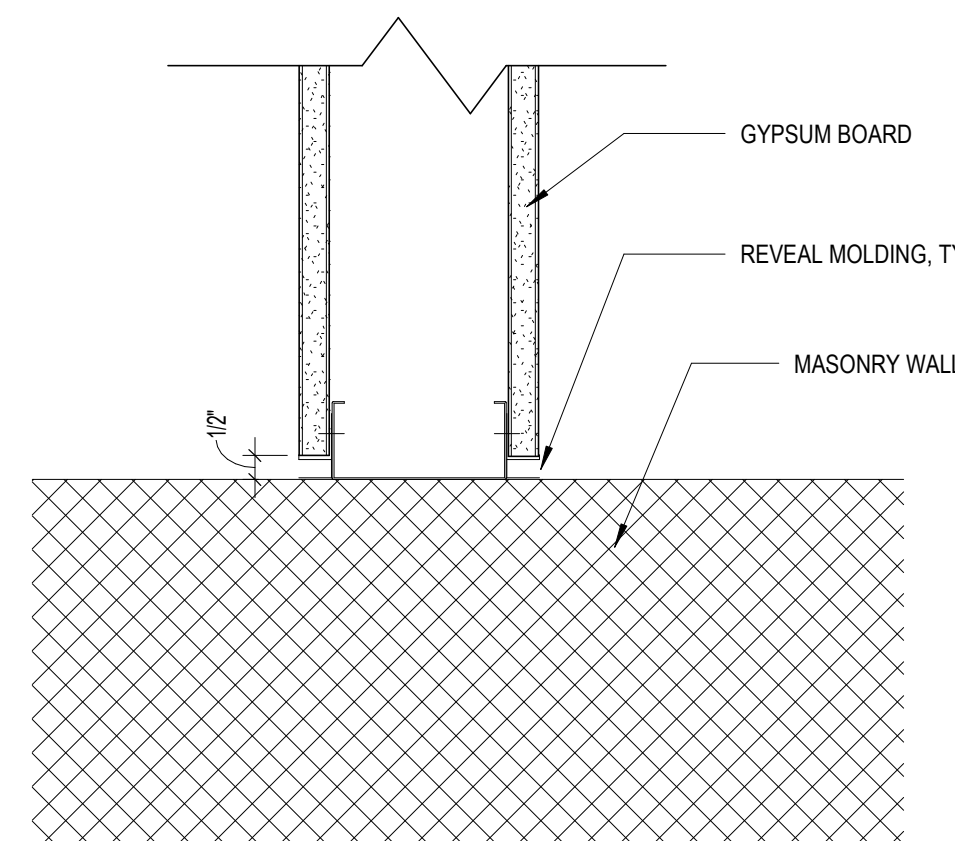
A5-01



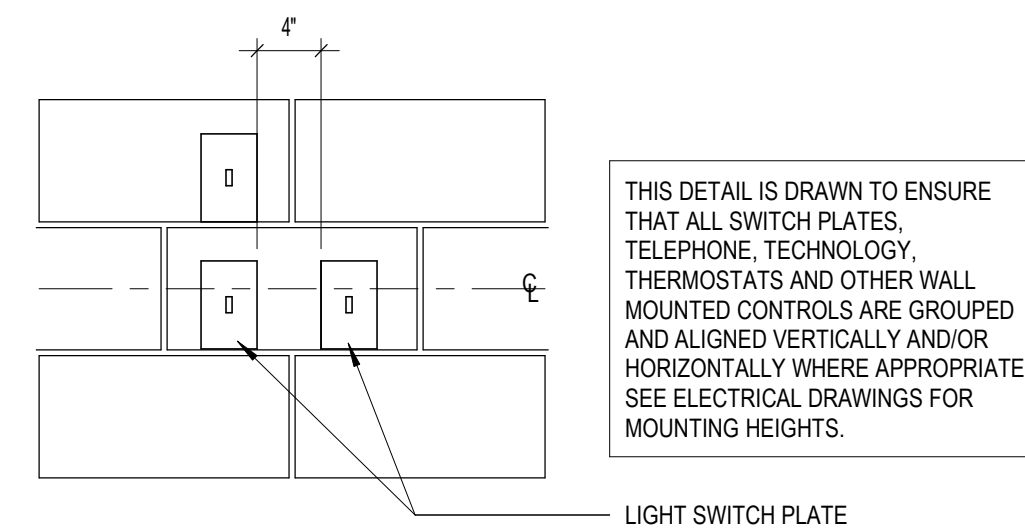
16 SEMI-RECESSED FIRE EXTINGUISHER CABINET
A5-01 1" = 1'-0"



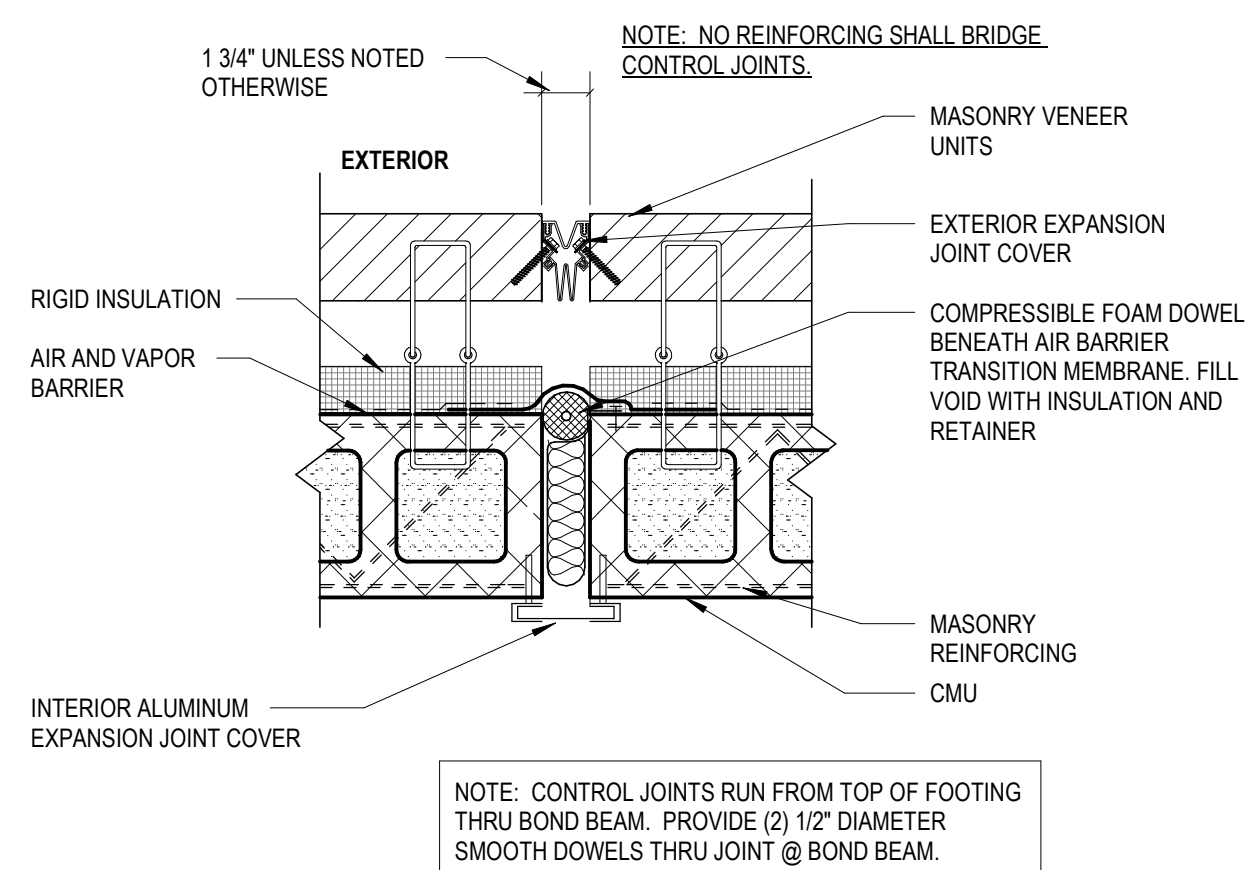
15 GYPSUM WALL CONTROL JOINTS
A5-01 1/2" = 1'-0"



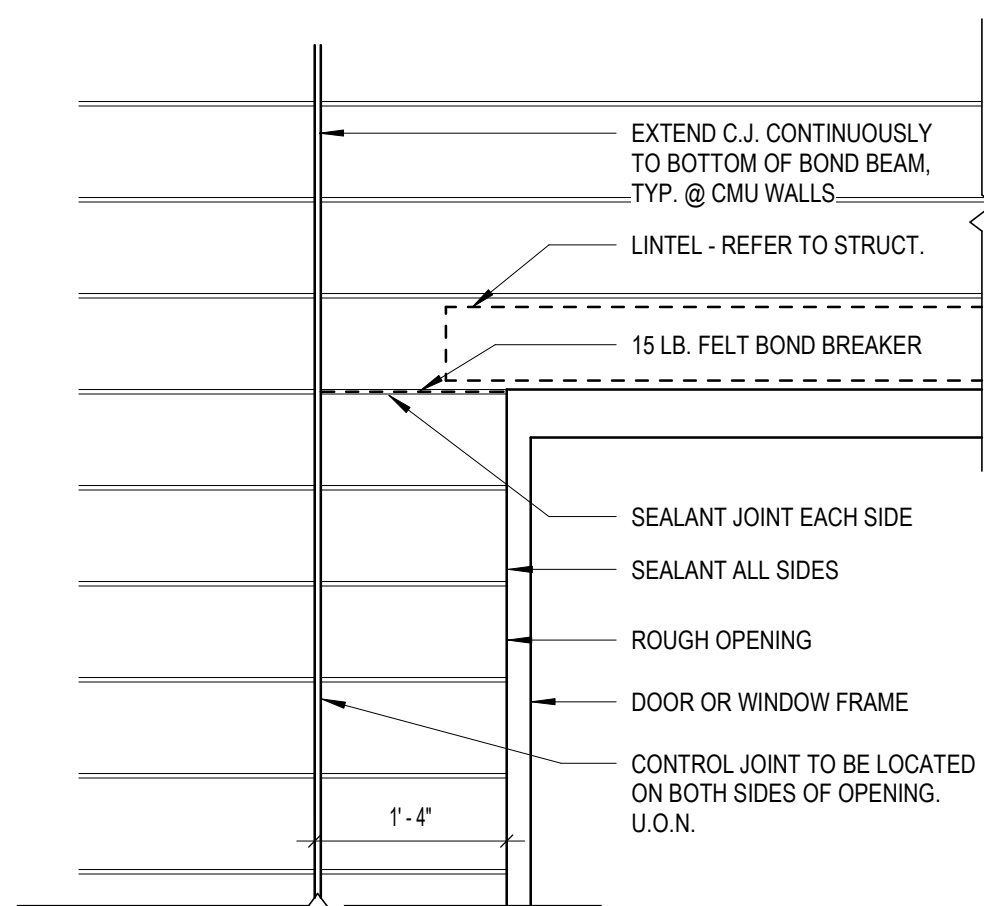
14 TYPICAL GYPSUM TO MASONRY DETAIL - REVEAL
A5-01 3" = 1'-0"



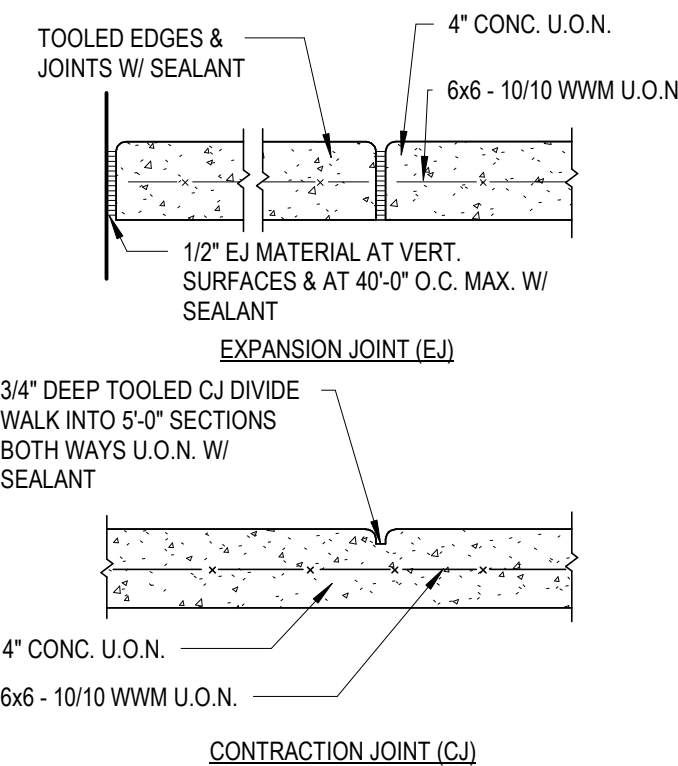
13 TYPICAL SWITCH PLATE LOCATION
A5-01 1" = 1'-0"



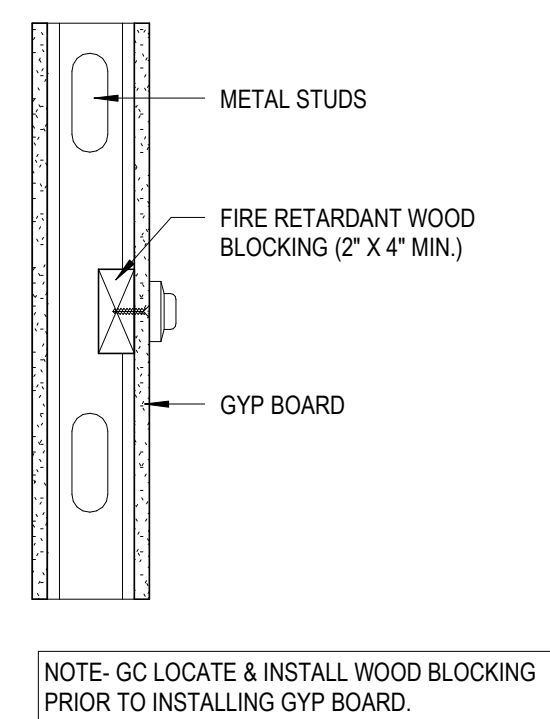
12 EXPANSION JOINT
A5-01 1 1/2" = 1'-0"



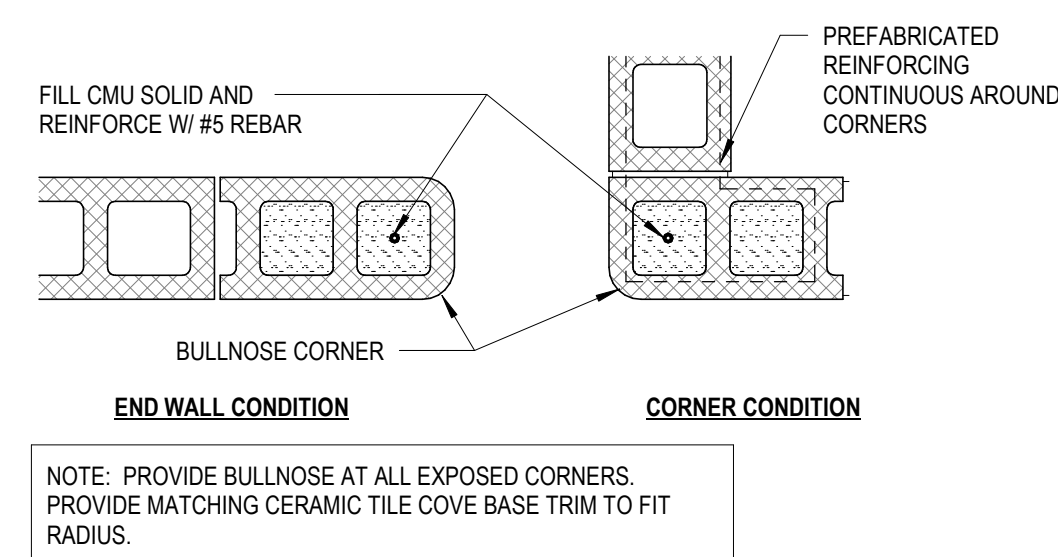
11 CONTROL JOINT AT MAS. WALL OPENINGS
A5-01 3/4" = 1'-0"



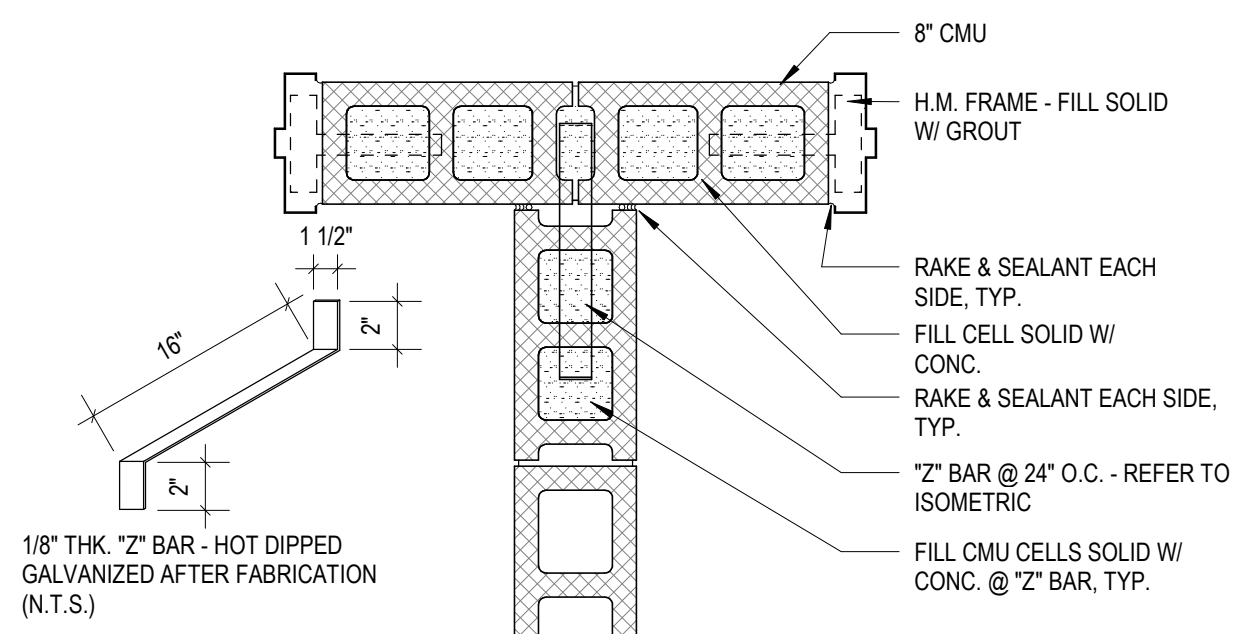
10 TYPICAL SIDEWALK
A5-01 1 1/2" = 1'-0"



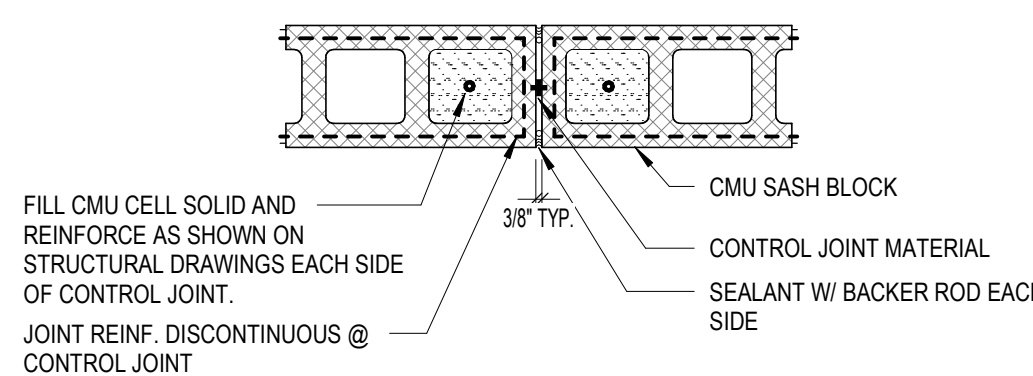
9 DOOR STOP
A5-01 1 1/2" = 1'-0"



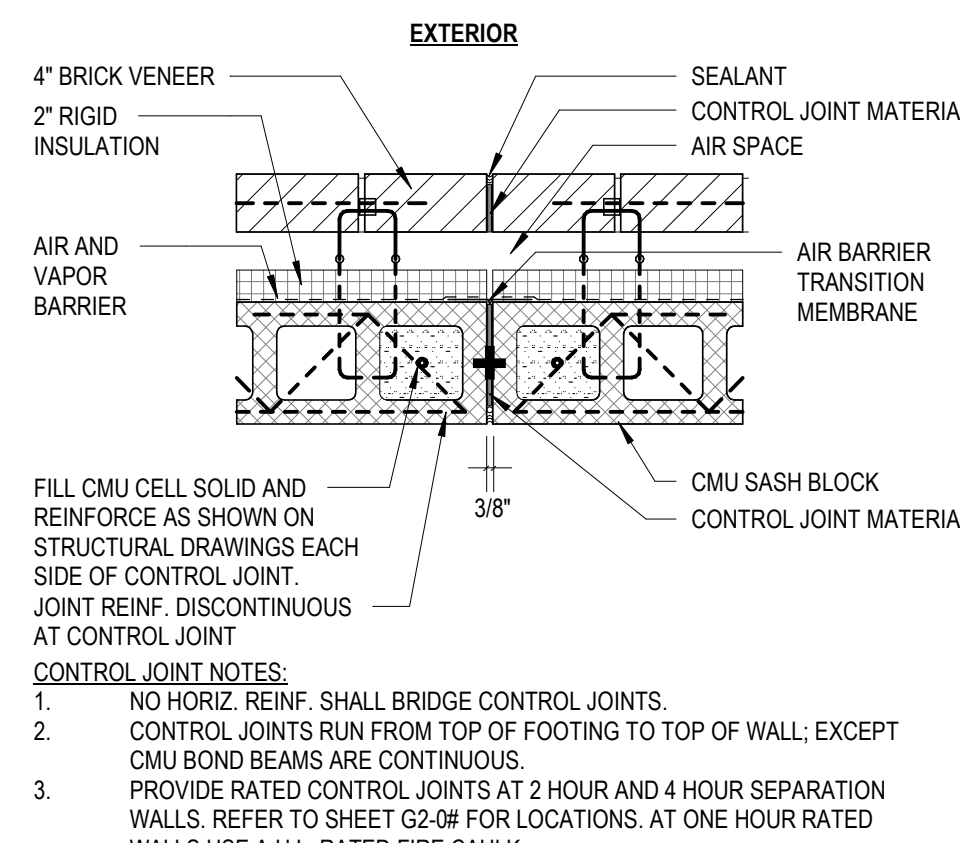
8 TYPICAL BULLNOSE WALL DETAIL
A5-01 1" = 1'-0"



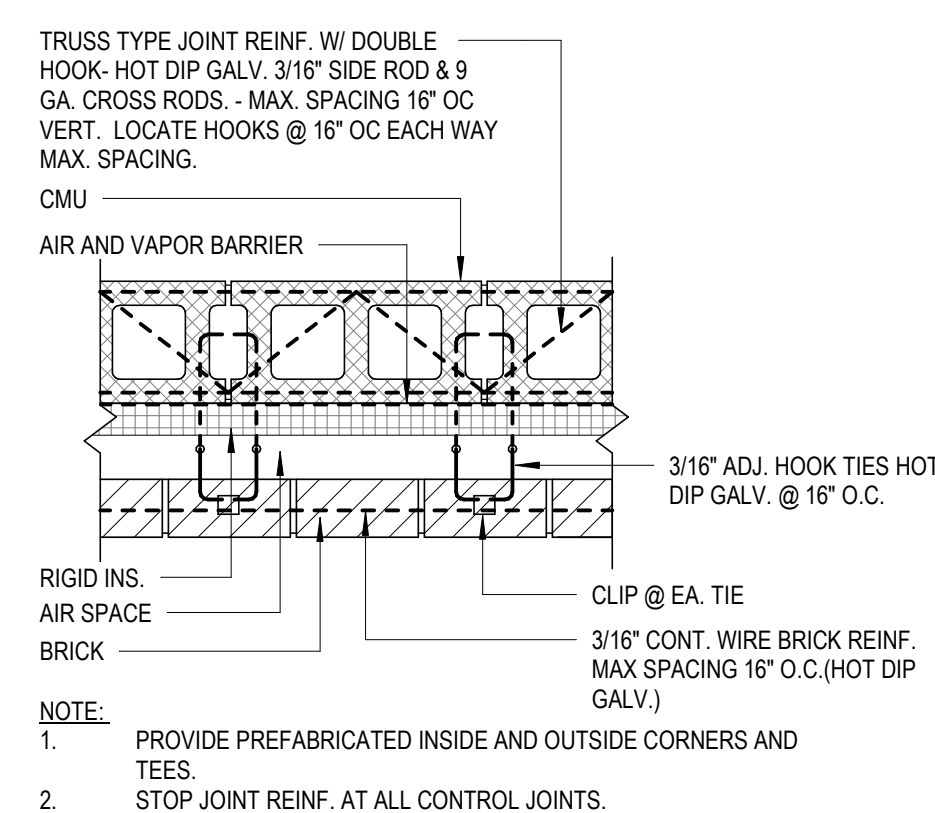
5 TYPICAL MASONRY WALL INTERSECTION
A5-01 1" = 1'-0"



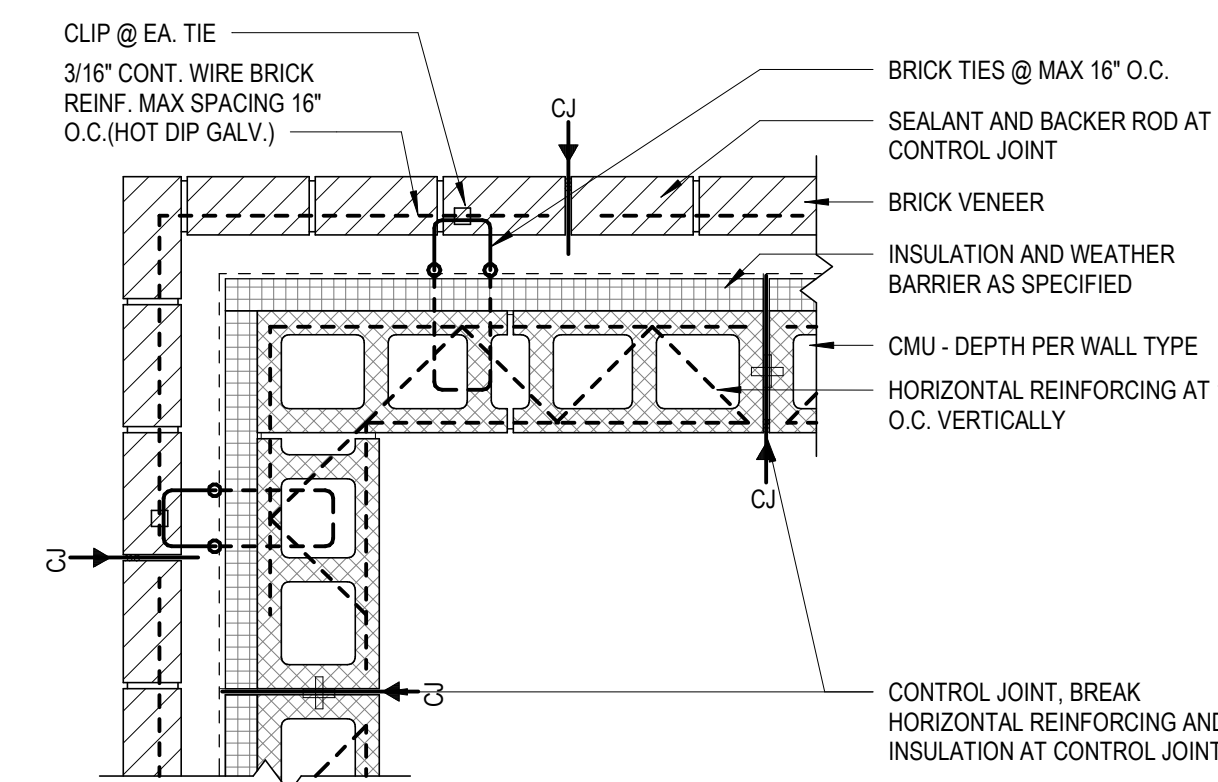
4 TYPICAL BLOCK PARTITION CONTROL JOINT
A5-01 1" = 1'-0"



3 TYPICAL EXTERIOR WALL CONTROL JOINT
A5-01 1" = 1'-0"



2 JOINT REINFORCING
A5-01 1" = 1'-0"



1 TYPICAL MASONRY CORNER DETAIL
A5-01 1" = 1'-0"

SECTION 12 24 13 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes roller shades.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
- B. Samples for Initial Selection: For each colored component of each type of shade indicated.
 - 1. Include similar Samples of accessories involving color selection.
- C. Product Certificates: For each type of roller shade, signed by product manufacturer.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of roller shade.
- E. Maintenance Data: For roller shades to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining roller shades and finishes.
 - 2. Precautions about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
 - 3. Operating hardware.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
- B. Source Limitations: Obtain roller shades through one source from a single manufacturer.
- C. Fire-Test-Response Characteristics: Provide roller shade band materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Flame-Resistance Ratings: NFPA 701-1999 FR and ASTM-G21.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver shades in factory packages, marked with manufacturer and product name and location of installation using same designations indicated on Drawings and in a window treatment schedule.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUAL ROLLER SHADES

- A. Products: Subject to compliance with requirements, provide one of the following or equal:
1. Crestron Electronics, Inc.
 2. Hunter Douglas, Inc.
 3. MechoShade Systems, Inc.
 4. Draper
- B. Shade Band Material: PVC-coated fiberglass.
1. Fabric Width **as required to cover width of window openings.**
 2. Pattern: As selected by the Architect
 3. Colors: As selected by Architect from manufacturer's full range of colors.
 - a. Basis of Design is Draper Charcoal/Gray.
 4. Material Solar-Optical Properties: 3% openness,
 5. Material: Fabric flame retardant, fade and stain resistant, anti-static, anti-microbial and pass NFPA 701-1999 FR and ASTM-G21 and G22.
 6. Bottom Hem: Straight.
- C. Rollers: Extruded-aluminum tube of diameter and wall thickness required to support and fit internal components of operating system and the weight and width of shade band material without sagging; designed to be easily removable from support brackets. Tube shall be engineered with a channel to accept fabric spline. The tube size will be determined by the manufacturer based on window size and fabric selection.
- D. Idler end: High strength, glass-reinforced, polyester thermopolymer for wear resistance, smooth operation and corrosion resistance
- E. Installation brackets: .125" thick steel and can accommodate overhead, side and face mounting. Fascia panel shall be either 4" snap-on design and made of .062" thick extruded 6063 T-5 aluminum alloy with a powder-coated finish. Brackets shall be universal and painted to match the fascia panels. Color selected from manufacturer's standard color selection.
- F. Direction of Roll: Regular, from back of roller.
- G. Control loop: #10 stainless steel bead chain. Bead stops attached to the chain protect the shade from over rotation.
- H. Mounting Brackets: Fascia end caps, fabricated from steel finished to match fascia or headbox.
- I. Pocket-Style Headbox: U-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; with a bottom cover consisting of slot opening of minimum dimension to allow lowering and raising of shade and a removable or an openable, continuous metal access panel concealing shade roller, brackets, and operating hardware and operators within.
- J. Bottom Bar: Steel or extruded aluminum, with plastic or metal capped ends. Provide exposed-to-view, external-type bottom bar with concealed weight bar as required for smooth, properly balanced shade operation.
- K. Mounting: Inside mounting permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.
- L. Shade Operation: Manual.
1. Operating Function: Stop and hold shade at any position in ascending or descending travel.
 2. Clutch system: Glass-reinforced, polyester thermopolymer for wear resistance, smooth operation and corrosion resistance. The clutch is comprised of multi-banded, steel springs that lock the shade in any position when operating the control loop. The clutch mechanism is bi-directional and never requires adjustment or lubrication.

3. Lift assist system: Heavy-duty torsion spring located inside the roller tube. The mechanism reduces the pull force allowing easy lifting of larger shades.
 4. Spline system: PVC spline heat-welded to the shade fabric and inserted into a channel on the roller tube. Hem bar shall be an aluminum extrusion enclosed in a fabric hem pocket with heat-welded seams and ends. Battens shall be enclosed in a heat-welded pocket providing additional stabilizing on large shades.
- M. Product Description: Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.
- N. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
1. Lifting Mechanism: With permanently lubricated moving parts.
- O. Unit Sizes: Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F:
1. Shade Units Installed between (Inside) Jambs: Edge of shade not more than 1/4 inch from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.
- P. Installation Brackets: Designed for easy removal and reinstallation of shade, for supporting headbox, roller, and operating hardware and for hardware position and shade mounting method indicated.
- Q. Installation Fasteners: No fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.
- R. Colors of Metal and Plastic Components Exposed to View: Selected by Architect from Manufacturer's standard color selection.

2.2 MOTOR OPERATED SHADES

- A. Products: Basis of Design: Motor operated shades by Crestron Electronics, Inc. Subject to compliance with requirements, provide one of the following:
1. Crestron Electronics, Inc.
 2. Hunter Douglas, Inc.
 3. MechoShade Systems, Inc.
 4. Draper
- B. Motorized Operating System: Provide factory-assembled shade-operator, complete with electric motor, operating parts, and accessories required. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- C. Rollers: Metal tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of fabric indicated without deflection.
- D. Power, Processor: Dedicated power supply with plenum rated control cable. Manufacturer's control system to integrate with touch screen as provided in the A/V package (reference exhibit sheets).
- E. Mounting Hardware: Brackets to be corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location.
- F. Fabric, Shade: Grey (3% openness). Shade to have sealed pocket hem bar.
- G. Accessories: Pocket cover suitable for installation as detailed. Rectangular, one-piece aluminum extrusion for recessed installation.
- H. Fabrication: Provide unit sizes to fill openings as a between-jamb installation. Width equal to jamb-to-jamb dimension of opening in which shade is installed (finish gypsum wallboard to finished gypsum wallboard), less 1/16 inch per side or 1/8-inch total. Length equal to recessed pocket-to-sill dimension of opening in which shade is installed. Fabricate shades without battens or seams.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions and located so shade band is not closer than **2 inches** to interior face of glass. Allow clearances for window operation hardware.

3.3 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller shade surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

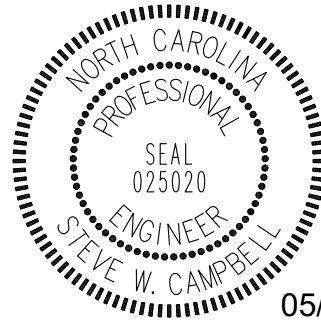
END OF SECTION 12 24 13



Progressive Design Collaborative, Ltd
3101 Poplarwood Court, Suite 320
Raleigh, North Carolina 27604
919-790-9989

ADDENDUM 02

DATE: May 30, 2025
PROJECT: Unified MS of Havelock
PDC Project # 24017



05/30/2025

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Mechanical Drawings:

Drawings from 2021 HVAC Upgrades Project: M2-05, M3-01, M3-02, M6-01 – M6-05, M7-01 and M7-02

- These drawings are for reference.

END OF ADDENDUM 02

Attachments: M2-05, M3-01, M3-02, M6-01 – M6-05, M7-01 and M7-02



pdcengineers.com



WALL RATINGS LEGEND

	1 HR RATED WALL
	2 HR RATED WALL
	4 HR RATED WALL

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sinnett
ARCHITECTURE

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F 919 781 3979

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RECORD DRAWINGS

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STEVE W. CAMPBELL

03/18/2024

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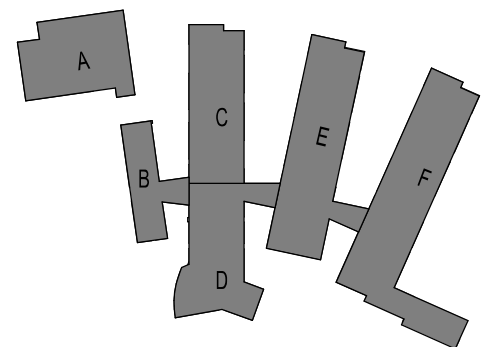
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THIS DRAWING IS FORMATTED TO BE PRINTED ON A 30" X 42" SHEET

Craven County Schools
Tucker Creek Middle School HVAC
Upgrades

200 Sermons Blvd.
Havelock, NC 28532

ID	DATE	DESCRIPTION
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KEY PLAN
NO SCALE

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CHECKED BY:	SWC

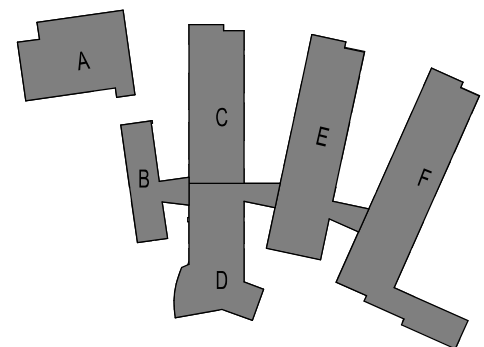
OVERALL PIPING PLAN

22003	11/1/22
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M2-05

CRAVEN COUNTY SCHOOLS
TUCKER CREEK MIDDLE SCHOOL HVAC
UPGRADES
200 Sermons Blvd.
Havelock, NC 28532

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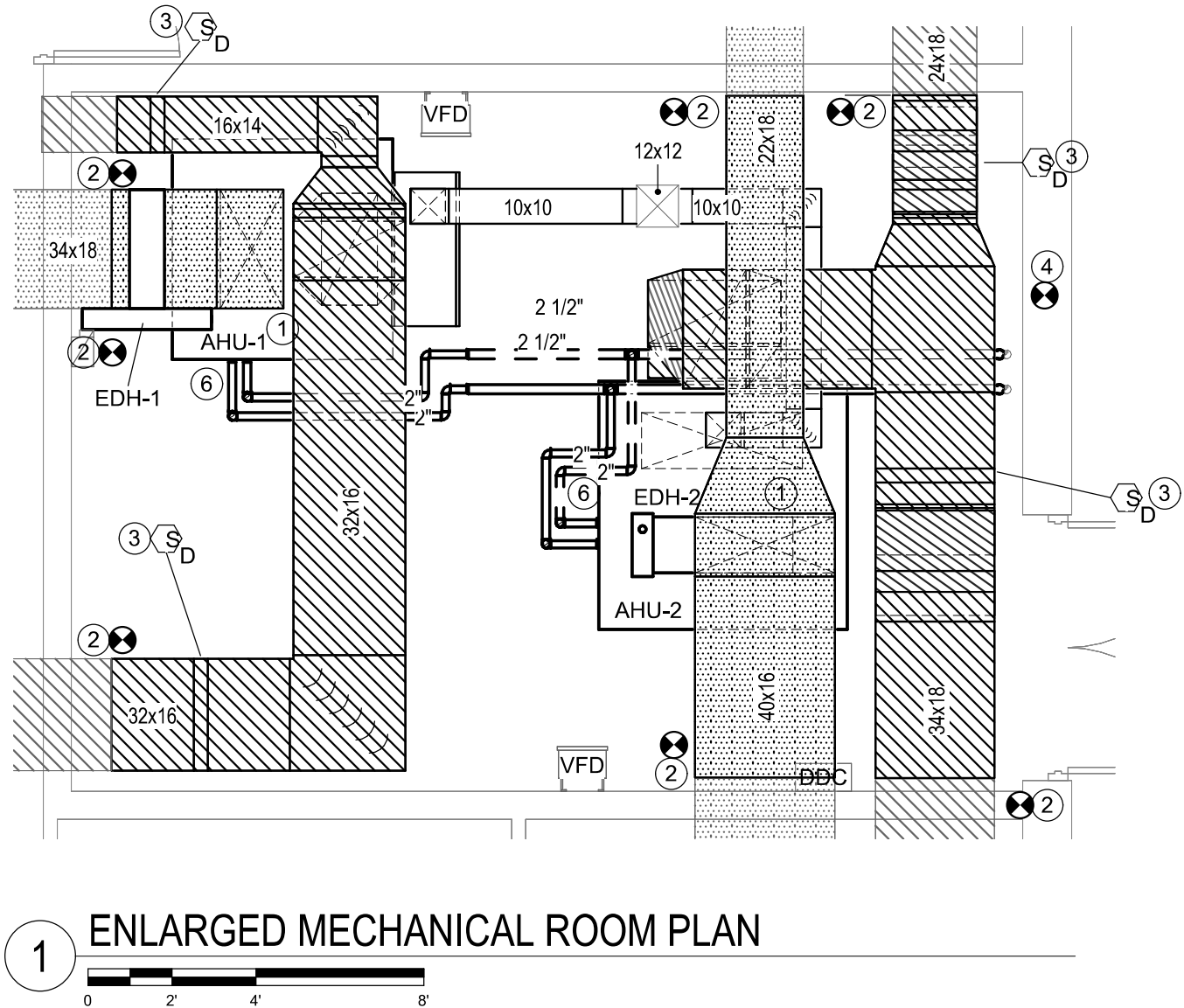
KEY PLAN
NO SCALE

DRAWN BY: JAV
CHECKED BY: SWC

ENLARGED PLANS

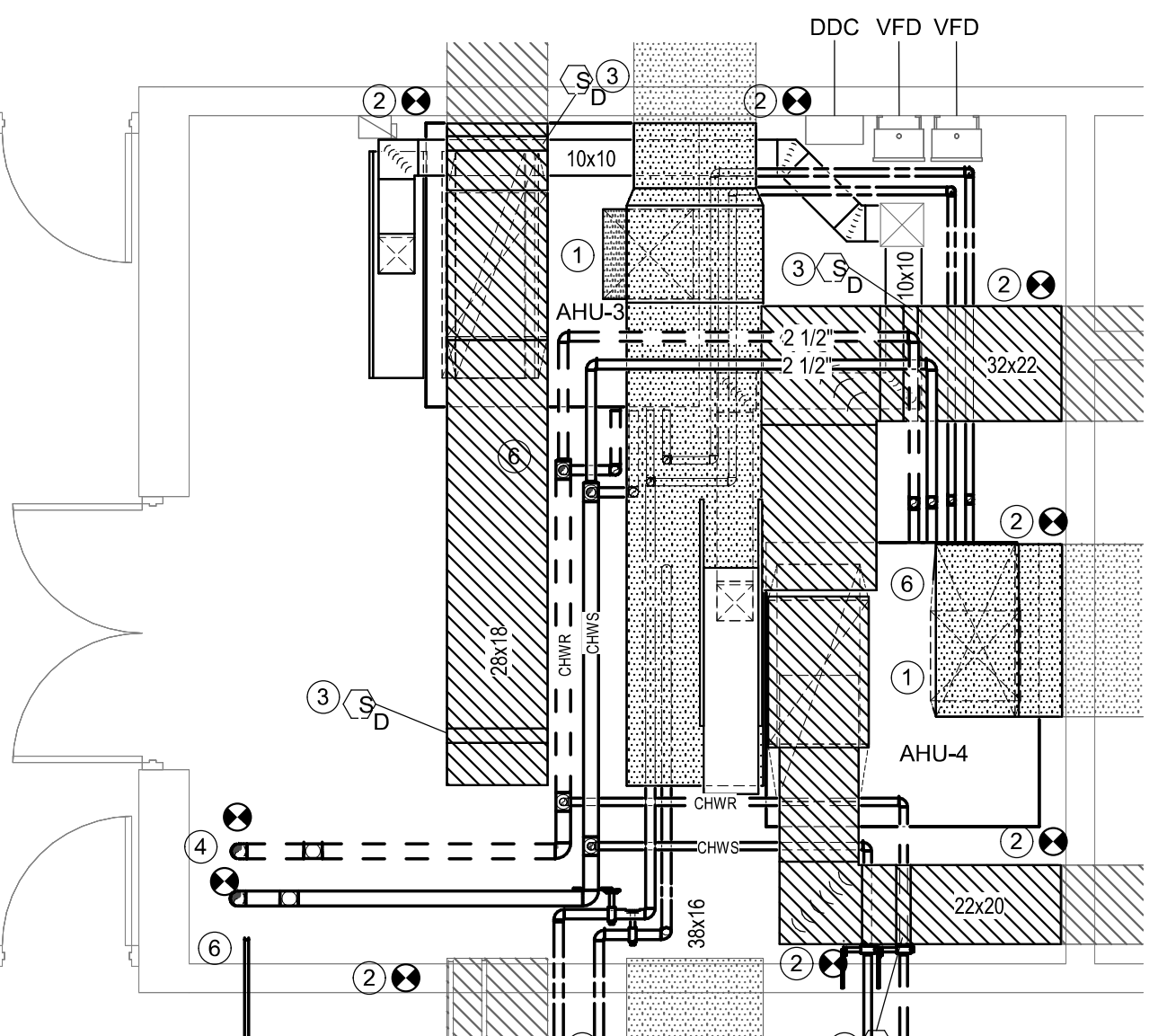
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M3-01



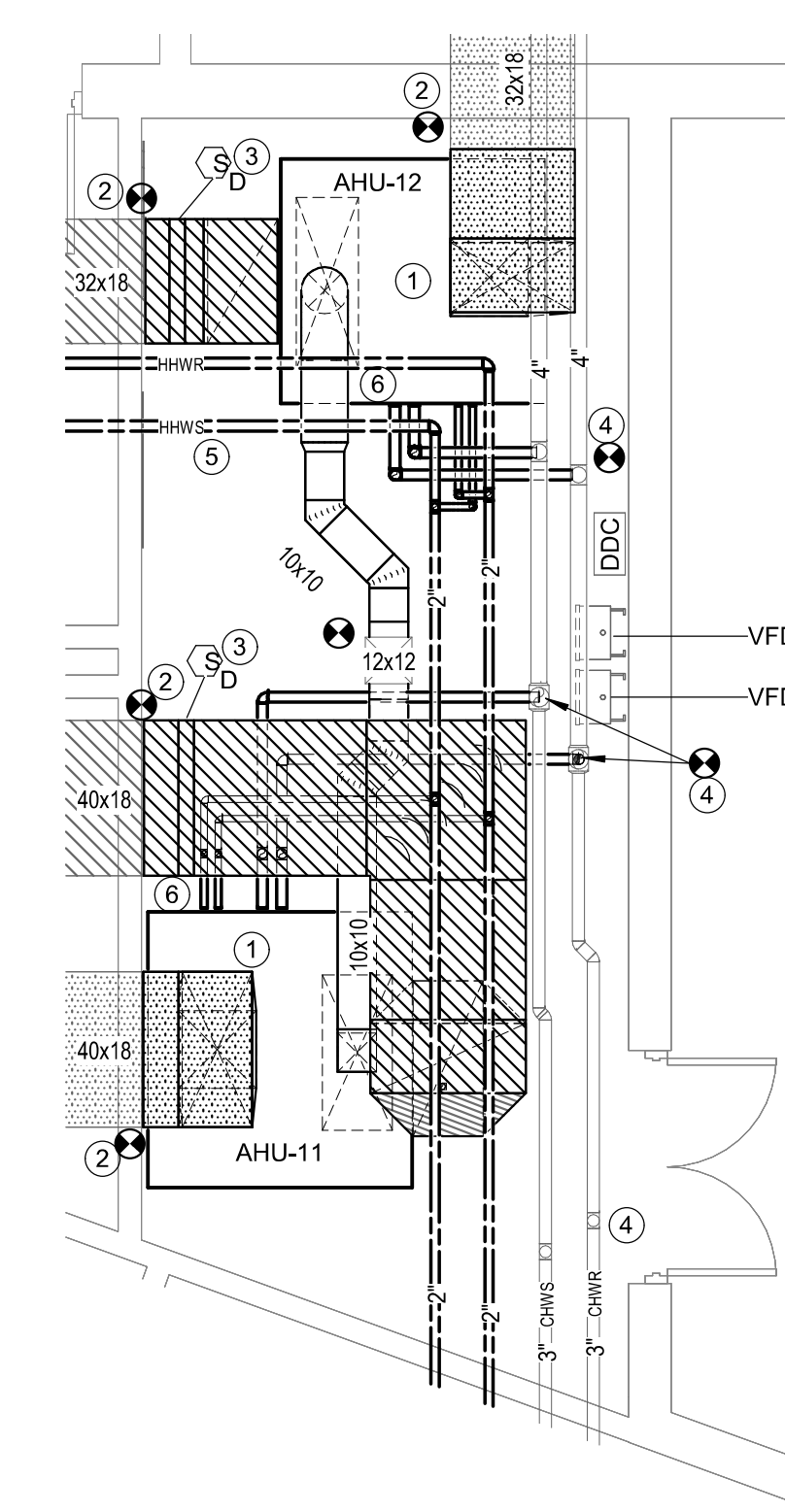
1 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"



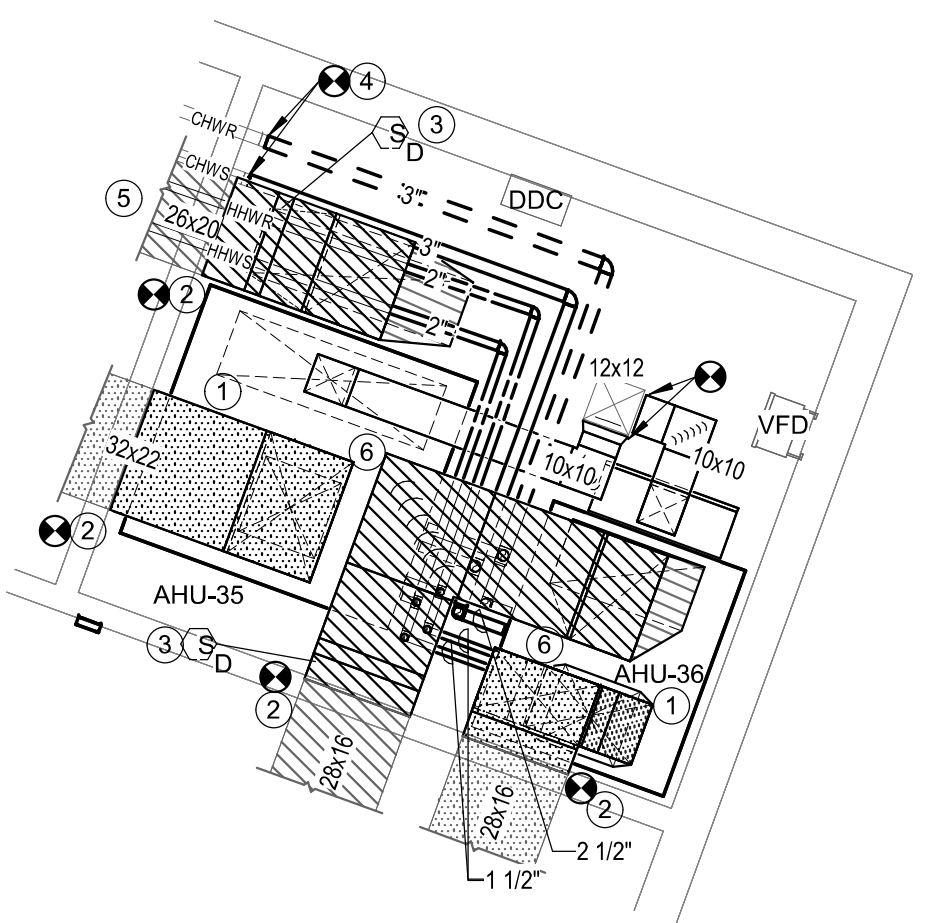
2 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"



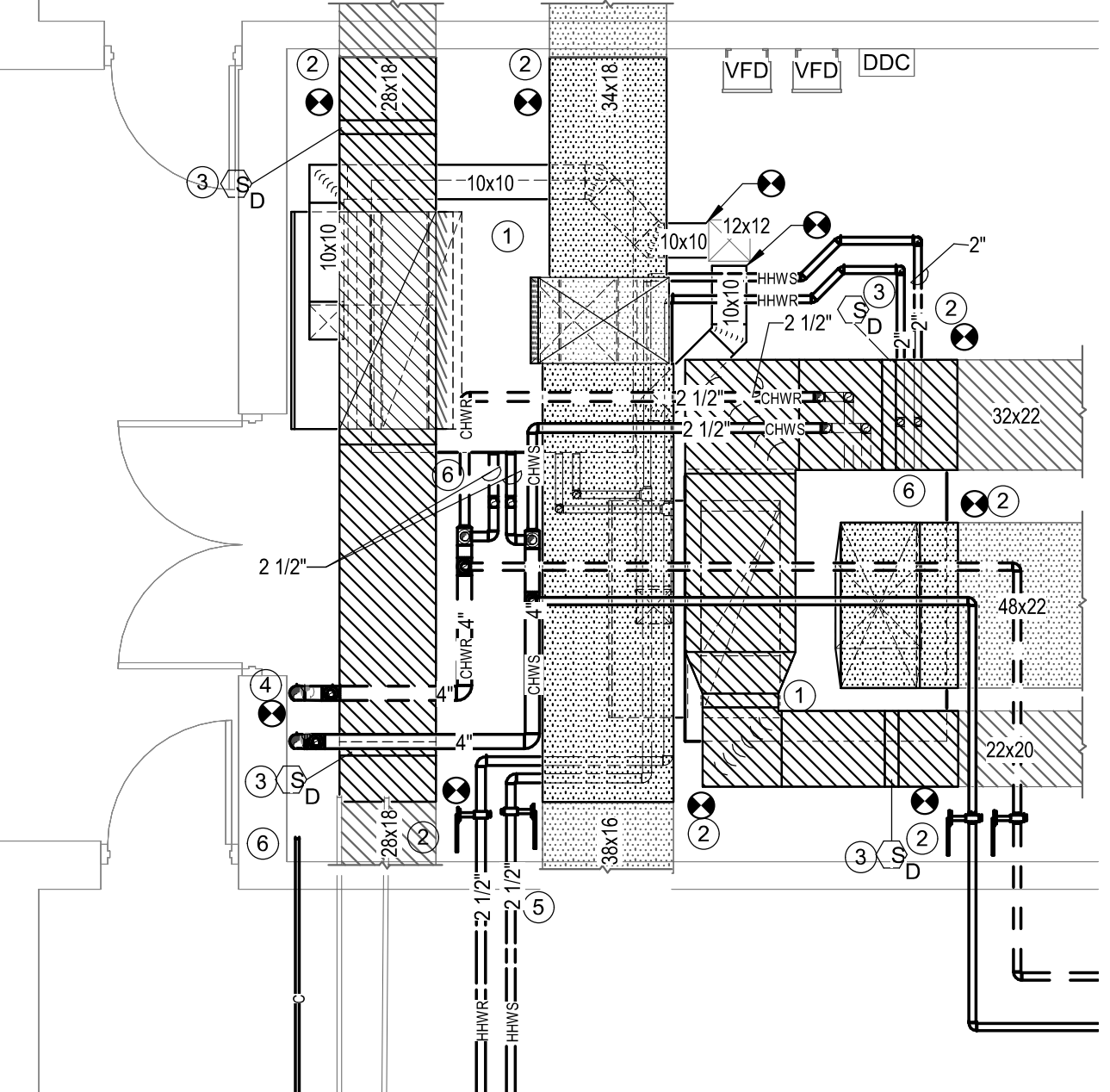
3 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"



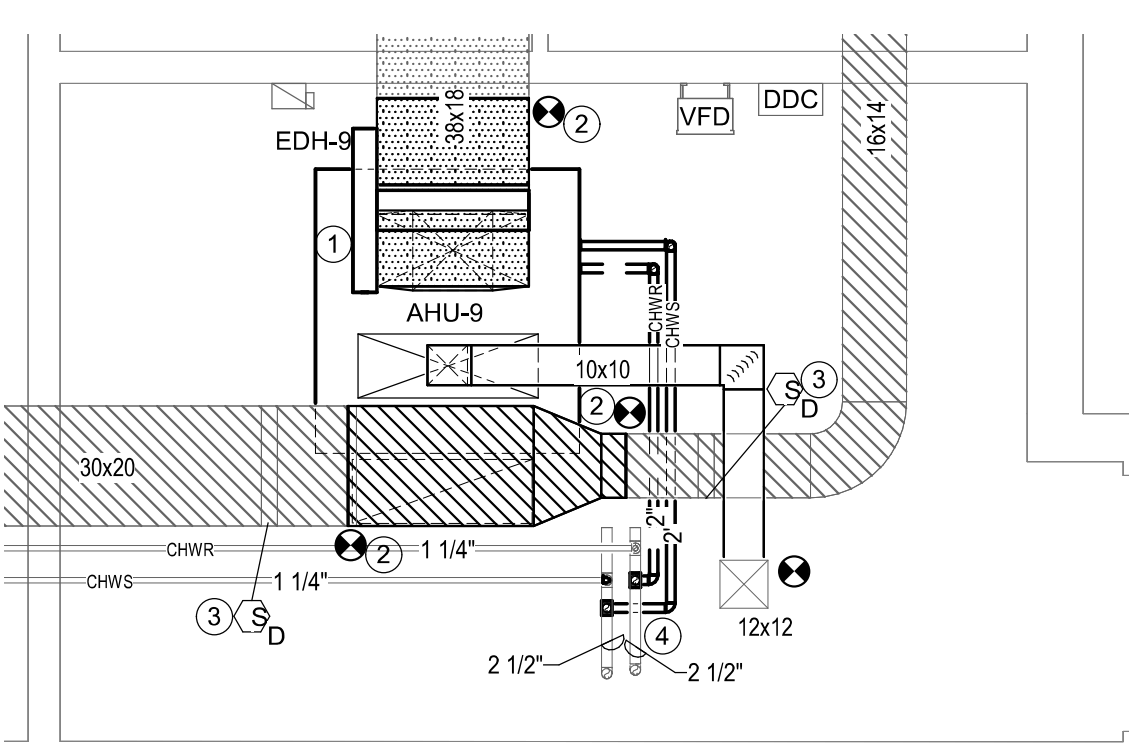
4 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"



5 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"



6 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"

KEYNOTES:

- PROVIDE SCHEDULED AIR HANDLING UNIT IN SAME LOCATION AS PREVIOUS. RECONNECT TO EXISTING DUCTWORK. EXTEND CONDENSATE PIPING TO FLOOR DRAIN.
- RECONNECT TO EXISTING DUCTWORK.
- REINSTALL DUCT DETECTOR IN RETURN DUCTWORK.
- CONNECT TO EXISTING PIPING AND EXTEND TO AHUs. FORMER DUAL TEMPERATURE PIPING BEING CONVERTED TO CHILLED WATER PIPING.
- PROVIDE HOT WATER PIPING TO UNITS.
- ROUTE CONDENSATE TO EXISTING FLOOR DRAIN.

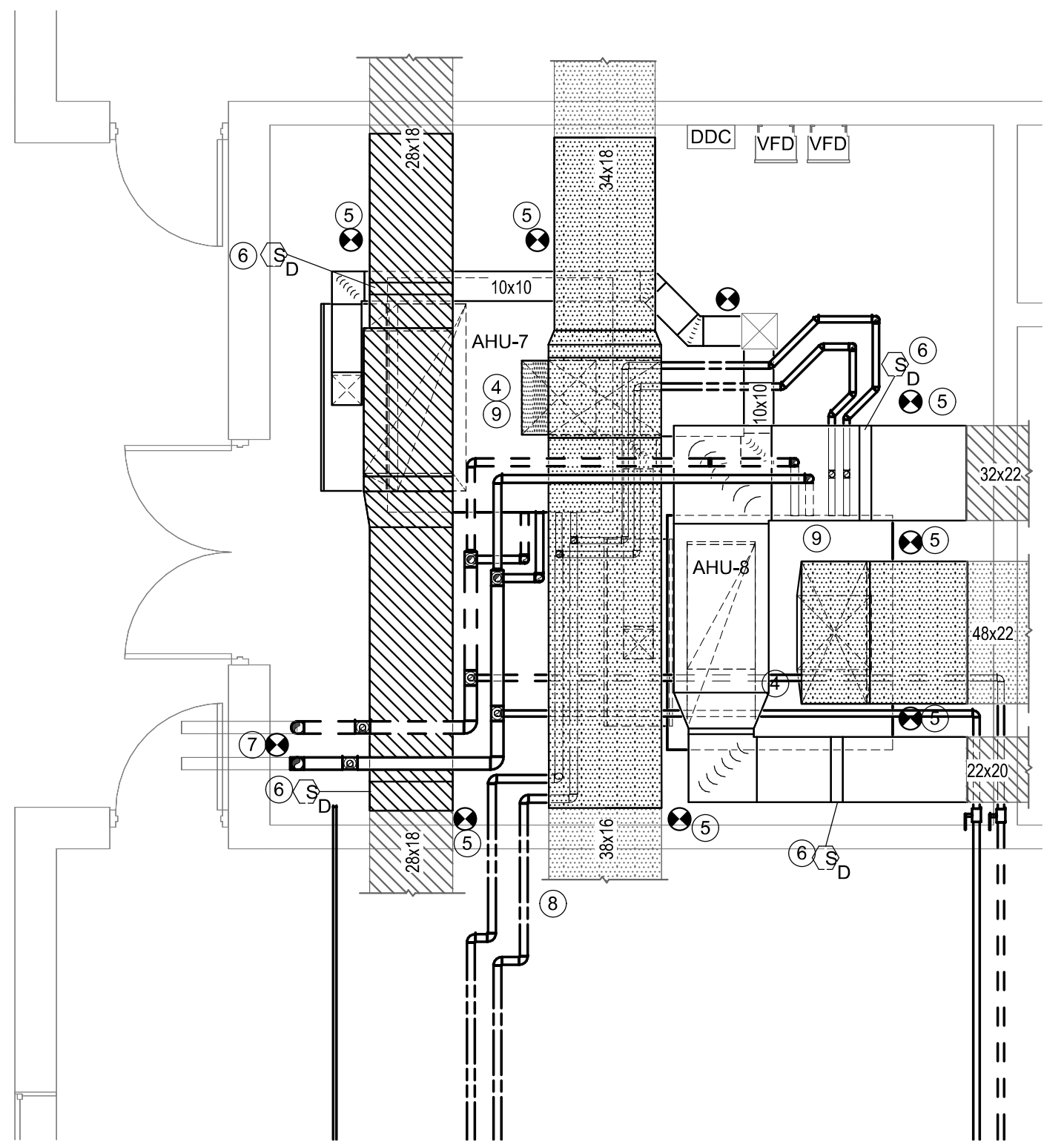
GENERAL NOTES:

- REINSULATE ALL EXISTING DUAL TEMPERATURE PIPING PER THE SPECIFICATIONS FOR CHILLED WATER PIPING.
- PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL PUMPS, BOILERS, TANKS, AND OTHER FLOOR MOUNTED EQUIPMENT.

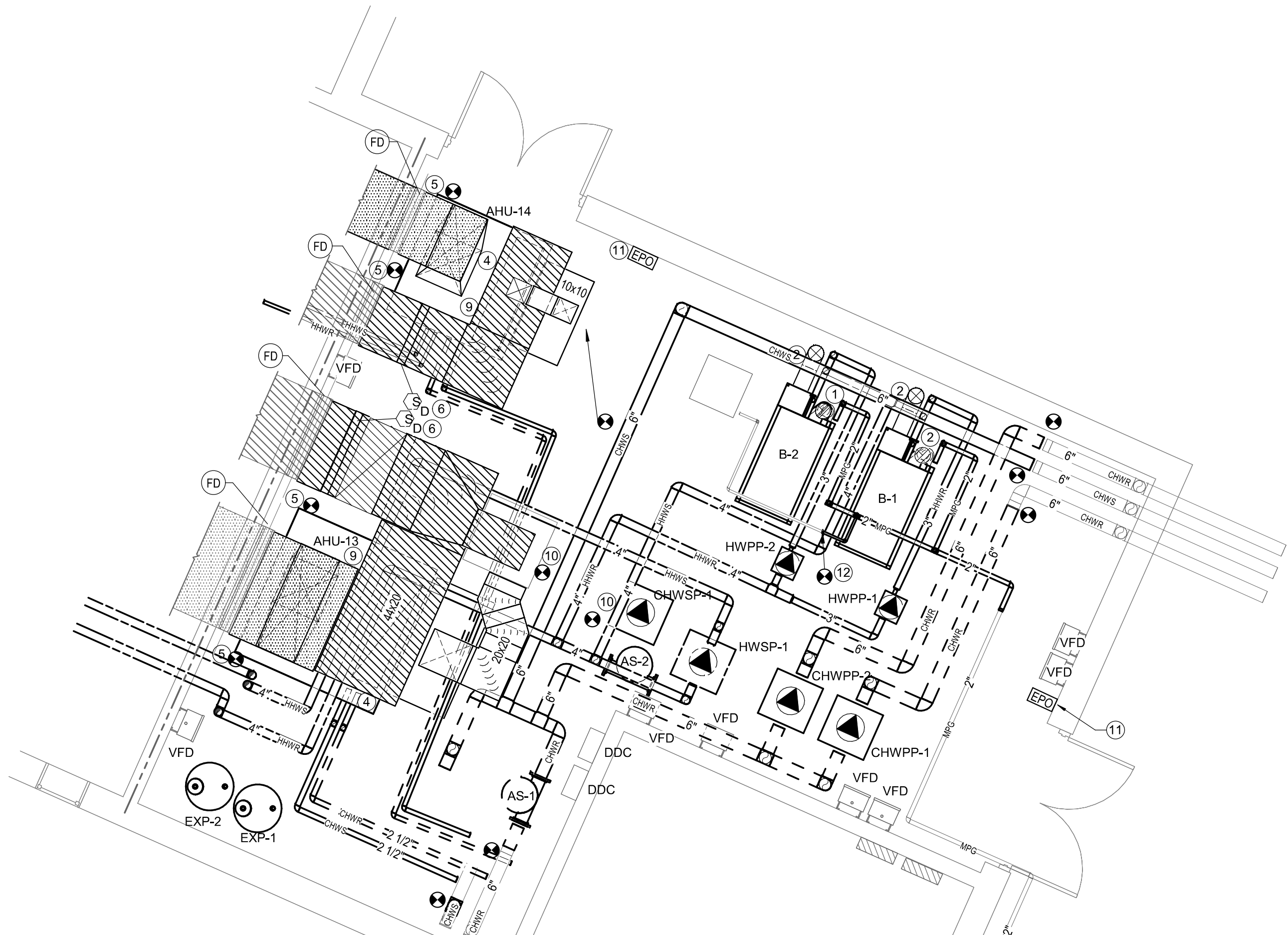
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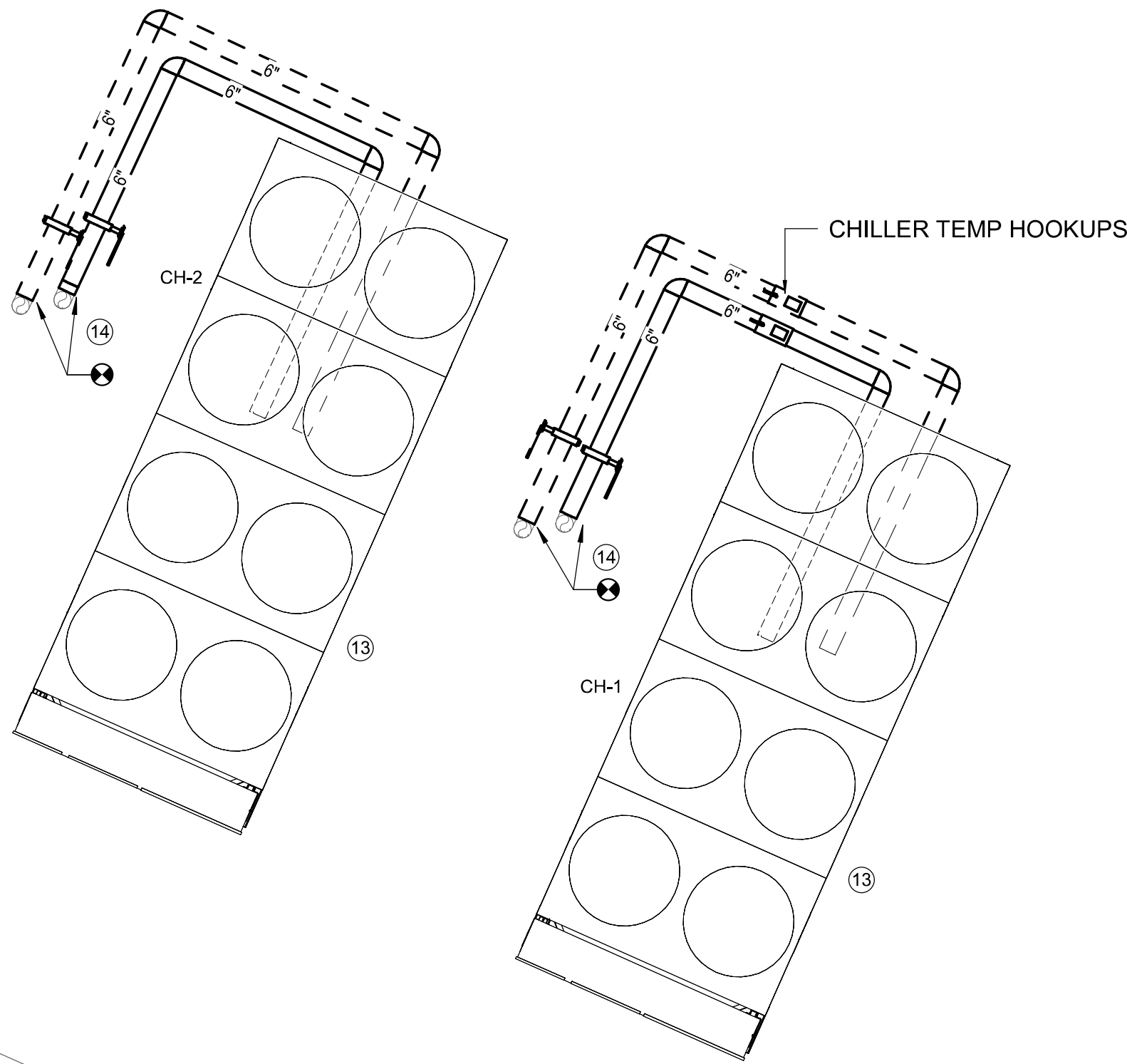
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2 ENLARGED MECHANICAL ROOM PLAN
1/4" = 1'-0"



1 ENLARGED BOILER ROOM PLAN
1/4" = 1'-0"



WALL RATINGS LEGEND	
	1 HR RATED WALL
	2 HR RATED WALL
	4 HR RATED WALL

GENERAL NOTES:

- A. REINSULATE ALL EXISTING DUAL TEMPERATURE PIPING PER THE SPECIFICATIONS FOR CHILLED WATER PIPING.
- B. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL PUMPS, BOILERS, TANKS, AND OTHER FLOOR MOUNTED EQUIPMENT.
- C. HWPP-1/2 SHALL BE SUSPENDED UP HIGH.

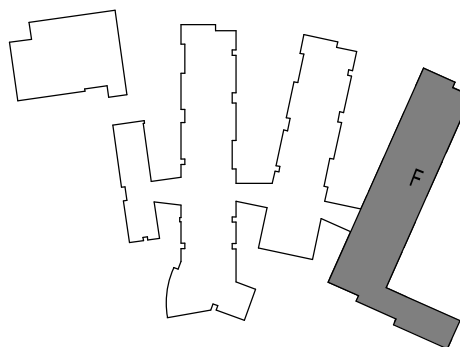
KEYNOTES:

1. PROVIDE NEW ROOF PENETRATION AND ROOF CURB AND EXTEND BOILER FLUE THROUGH ROOF AND TERMINATE AT HEIGHT ABOVE ROOF PER CODE. PROVIDE RAIN CAP AT TERMINATION
2. PROVIDE NEW ROOF PENETRATION AND ROOF CURB AND EXTEND BOILER COMBUSTION AIR THROUGH ROOF AND TERMINATE AT HEIGHT ABOVE ROOF PER CODE. PROVIDE RAIN CAP AT TERMINATION
3. RELOCATE EXISTING DDC PANEL. COORDINATE WITH ELECTRICAL CONTRACTOR.
4. PROVIDE SCHEDULED AIR HANDLING UNIT IN SAME LOCATION AS PREVIOUS. RECONNECT TO EXISTING DUCTWORK. EXTEND CONDENSATE PIPING TO FLOOR DRAIN.
5. RECONNECT TO EXISTING DUCTWORK.
6. REINSTALL DUCT DETECTOR IN RETURN DUCTWORK.
7. CONNECT TO EXISTING PIPING AND EXTEND TO AHU's. FORMER DUAL TEMPERATURE PIPING BEING CONVERTED TO CHILLED WATER PIPING.
8. PROVIDE HOT WATER PIPING TO UNITS.
9. ROUTE CONDENSATE TO EXISTING FLOOR DRAIN.
10. RECONNECT TO EXISTING AIR-TO-AIR HEAT EXCHANGER.
11. EMERGENCY PUSH BUTTON FOR BOILER SHUTDOWN.
12. RECONNECT GAS TO DOMESTIC WATER HEATER.
13. BID ALTERNATE: PROVIDE AIR-COOLED CHILLER IN SAME LOCATION AS EXISTING. RECONNECT TO EXISTING CHILLED WATER PIPING ABOVE GRADE. PROVIDE NEW BUTTERFLY VALVES. REUSE EXISTING HOUSEKEEPING PAD.
14. REPLACE ALL EXISTING HEAT TRACE. REPLACE GATE VALVES WITH BUTTERFLY VALVES.

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CRAVEN COUNTY SCHOOLS
TUCKER CREEK MIDDLE SCHOOL HVAC
UPGRADES
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Havelock, NC 28532

ID	DATE	DESCRIPTION
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KEY PLAN
NO SCALE

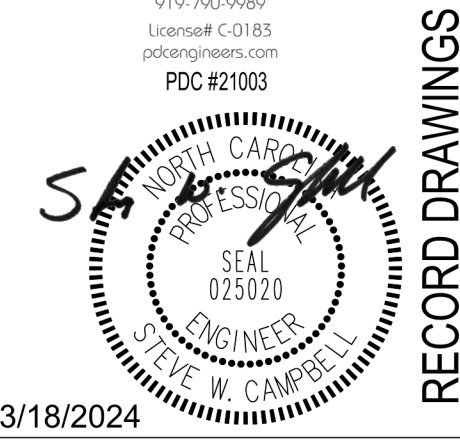
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ENLARGED PLANS

22003 11/1/22

M3-02

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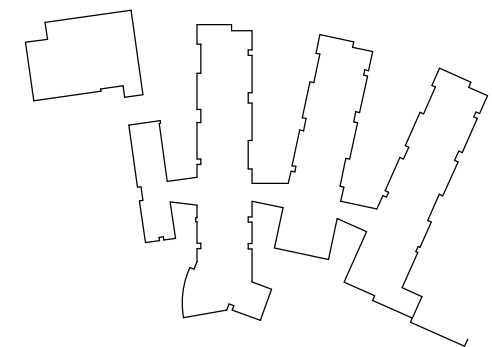
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4600 Lake Boone Trail
Suite 205
Raleigh, NC 27607
info@smithsinnett.com

RECORD DRAWINGS



1. DISCONNECT AND REMOVE EXISTING 3-WAY VALVE AND BYPASS.
2. DISCONNECT EXISTING BOILERS FROM EXISTING 2-PIPE DISTRIBUTION SYSTEM.
3. DISCONNECT AND REMOVE EXISTING BOILERS, BOILER PUMPS, AND ASSOCIATED APPURTENANCES.
4. DISCONNECT AND REMOVE EXISTING CHECK VALVE.

ID	DATE	DESCRIPTION
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KEY PLAN
NO SCALE

DRAWN BY:	JAV
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EXISTING HYDRONIC PIPING SCHEMATIC

22003 11/1/22

M6-01

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AIR COOLED CHILLER PLANT SEQUENCE OF OPERATIONS

THE CHILLED WATER SYSTEM SHALL BE ENABLED TO OPERATE WHEN:
1. THE OUTSIDE AIR TEMPERATURE IS ABOVE 60°F
2. ONE OR MORE (ADJ) AHU#s IS MAKING CHILLER PLANT REQUESTS.

A START/STOP OPTIMIZATION ALGORITHM SHALL BE USED TO MOST EFFICIENTLY CONTROL THE CHILLED WATER PLANT.

THE SECONDARY CHILLED WATER PUMP SHALL BE ENABLED AND STARTED FIRST.

THE SECONDARY CHILLED WATER PUMP IS A VARIABLE FLOW PUMP WITH VARIABLE FREQUENCY DRIVE. WHEN THE CHILLER PLANT IS ENABLED BY THE BAS, THE VFD OF THE SECONDARY PUMP SHALL START AT MINIMUM SPEED. THE VFD SHALL BE CONTROLLED BY (TWO) DIFFERENTIAL PRESSURE SENSORS IN THE CHILLED WATER PIPING SYSTEM. THE DRIVE SPEED SHALL BE INCREASED IN RESPONSE TO THE SENSOR WITH THE LARGEST DEVIATION BELOW SETPOINT. IF ONE OR MORE OF THE SENSORS IS BELOW SETPOINT, THE DRIVE SPEED SHALL BE DECREASED IN RESPONSE TO THE SENSOR WITH THE SMALLEST DEVIATION ABOVE SETPOINT IF BOTH OF THE SENSORS ARE ABOVE SETPOINT. IF ONE IS ABOVE SETPOINT AND ONE IS BELOW SETPOINT, THE SPEED SHALL BE ADJUSTED BASED ON THE SENSOR WITH THE LARGEST DEVIATION FROM SETPOINT. IF THE PUMP FAILS TO START OR FAILS DURING OPERATION, IT SHALL BE DISABLED AND AN ALARM SENT TO THE BAS OPERATOR WORKSTATION.

THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE DYNAMICALLY RESET USING TRIM AND RESPOND LOGIC. THE MAXIMUM PRESSURE LIMIT IS THE PRESSURE REQUIRED TO PROVIDE FULL FLOW TO ALL CONTROL VALVES (WITH SOME CLOSED FOR DIVERSITY AS REQUIRED). THIS LIMIT SHALL BE ESTABLISHED DURING TAB AND COMMISSIONING. THE MINIMUM PRESSURE LIMIT IS THE PRESSURE CORRELATING TO THE LOWEST SPEED AT WHICH THE PUMP MOTOR IS ALLOWED TO BE OPERATED. THIS VALUE SHALL ALSO BE ESTABLISHED DURING TAB AND COMMISSIONING. THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE DYNAMICALLY RESET BETWEEN THESE MAXIMUM AND MINIMUM LIMITS BY THE BAS USING TRIM AND RESPOND LOGIC TO MAINTAIN AT LEAST ONE (1) CONTROL VALVE 80% OPEN OR MORE BASED ON RESET REQUESTS FROM EACH ZONE. A RUNNING TOTAL OF THE RESET REQUESTS GENERATED FROM EACH ZONE SHALL BE RETAINED AND STORED TO IDENTIFY CRITICAL ZONES AND ZONES DRIVING THE RESET LOGIC.

THE BAS SHALL GENERATE AN ALARM IF THE SYSTEM PRESSURE DEVIATES FROM SETPOINT BY MORE THAN 5 PSI FOR MORE THAN 5 MINUTES (ADJ). IF A PUMP FAILS TO START, OR IF THE VARIABLE FREQUENCY DRIVE INDICATES AN ALARM.

AFTER A ONE MINUTE DELAY OF THE START OF THE SECONDARY PUMP, THE BAS SHALL ENABLE THE LEAD CHILLER CONTROL PANEL. THE LEAD CHILLER SHALL START ITS PRIMARY CHILLED WATER PUMP. AFTER PROOF OF PRIMARY CHILLED WATER FLOW IN THE CHILLED WATER PRIMARY PIPING (VIA FLOW SWITCH), THE LEAD CHILLER SHALL START. THE PRIMARY PUMP SHALL RUN AT CONSTANT SPEED. IF THE SECONDARY FLOW AS MEASURED BY THE FLOW METER EXCEEDS THE DESIGN FLOW OF A SINGLE CHILLER AND THE CHILLED WATER PRIMARY TEMPERATURE IS 2°F (ADJ) OR MORE ABOVE SETPOINT FOR MORE THAN 15 MINUTES, THE LAG CHILLER SHALL BE ENABLED. THE LAG CHILLER SHALL BE DISABLED IF THE SECONDARY CHILLED WATER FLOW RATE IS LESS THAN THE DESIGN FLOW RATE OF ONE CHILLER FOR 15 MINUTES OR MORE AND THE ACTIVE CHILLED WATER SET POINT IS BEING MAINTAINED. THE LEAD CHILLER DESIGNATION SHALL ROTATE WEEKLY.

THE BAS SHALL SEND A CHILLED WATER SUPPLY TEMPERATURE SETPOINT COMMAND TO THE CHILLER CONTROL PANEL(S). THE SETPOINT SHALL BE RESET FROM 44°F CHILLED WATER SUPPLY TEMPERATURE TO 50°F CHILLED WATER SUPPLY TEMPERATURE. THE CHILLED WATER SETPOINT SHALL BE DYNAMICALLY RESET BETWEEN THESE LIMITS BY THE BAS USING TRIM AND RESPOND LOGIC TO MAINTAIN AT LEAST ONE (1) VALVE 90% OPEN OR MORE BASED ON RESET REQUESTS FROM EACH ZONE. A RUNNING TOTAL OF THE RESET REQUESTS GENERATED FROM EACH ZONE SHALL BE RETAINED AND STORED TO IDENTIFY CRITICAL ZONES AND ZONES DRIVING THE RESET LOGIC. THE INITIAL SETPOINT FOR THE CHILLED WATER SUPPLY TEMPERATURE SHALL BE 44°F.

IF ANY AHU ENTERS DEHUMIDIFICATION MODE, THE CHILLED WATER SETPOINT RESET SHALL BE DISABLED AND THE SETPOINT SHALL RETURN TO 44°F. ONCE UNITS HAVE EXITED DEHUMIDIFICATION MODE, CHILLED WATER RESET SHALL BE REENABLED.

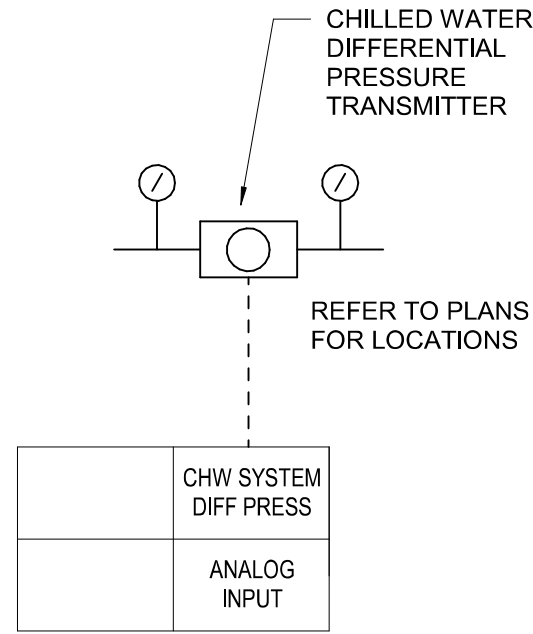
THE CHILLED WATER TEMPERATURE RESET LOOP SHALL TAKE PRECEDENCE OVER THE CHILLED WATER DIFFERENTIAL PRESSURE RESET LOOP AS FAR AS USING VALVE POSITION TO RESET THESE SETPOINTS.

THE LEAD CHILLER DESIGNATION SHALL BE ROTATED BASED ON RUN HOURS TO EVEN OUT RUNTIME. CHILLER SHALL NOT CYCLE ON AND OFF MORE THAN THREE TIMES IN A ONE HOUR PERIOD.

THE BAS SHALL MONITOR KW AND CALCULATE THE LOAD ON THE CHILLER USING EVAPORATOR CHW FLOW AND TEMPERATURE DIFFERENTIALS.

IN ADDITION TO THE SEQUENCE NOTED ABOVE, THE BAS SHALL MONITOR THE FOLLOWING DIGITAL AND ANALOG INPUT POINTS:

CHILLER RUN STATUS FOR EACH CHILLER
SECONDARY CHILLED WATER SUPPLY AND RETURN TEMPERATURES
PRIMARY CHILLED WATER TEMPERATURES FOR EACH CHILLER
CHILLED WATER FLOW RATE
ACCUMULATED RUN HOURS

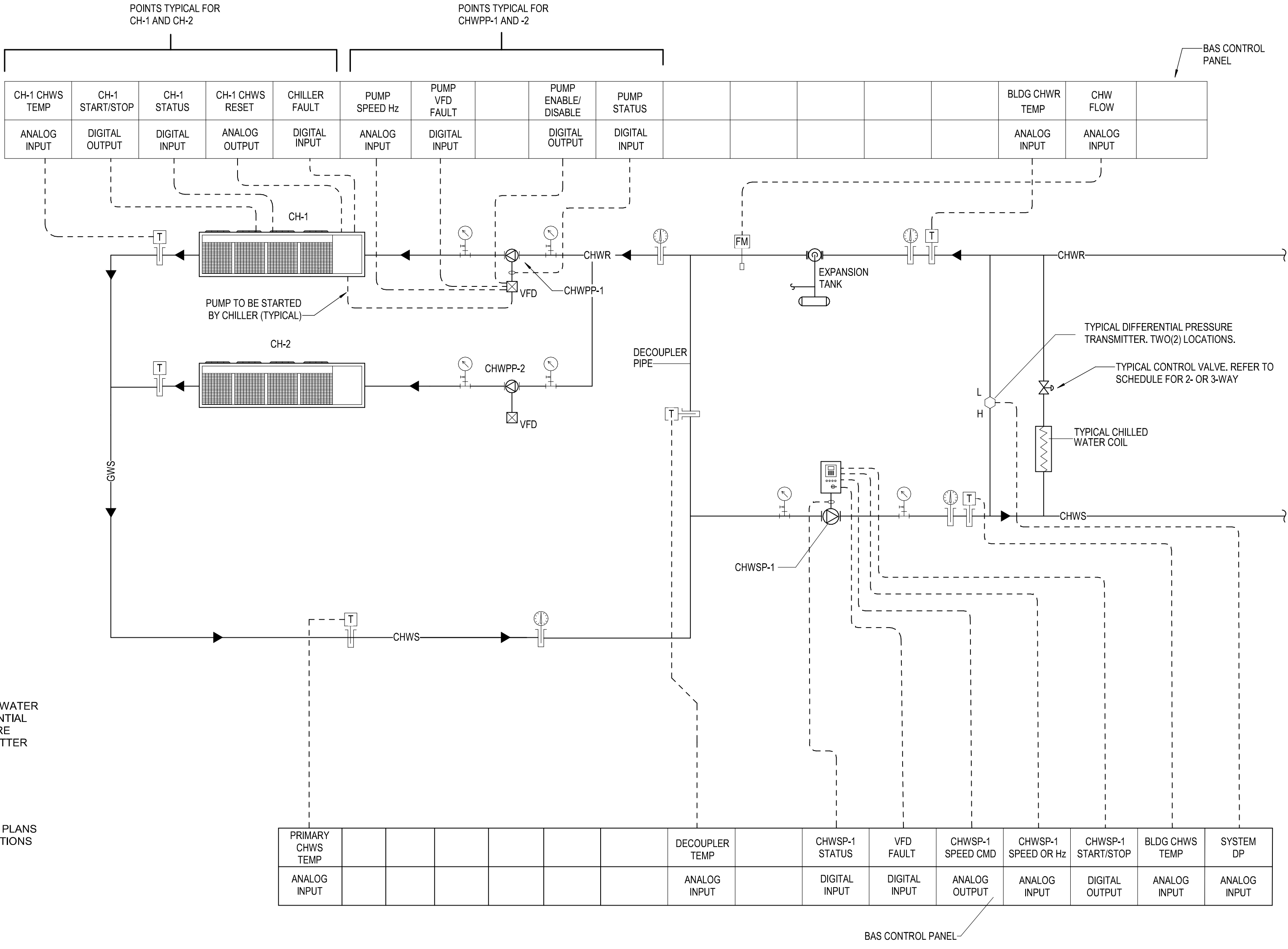


DIFFERENTIAL PRESSURE TRANSMITTERS-TYPICAL

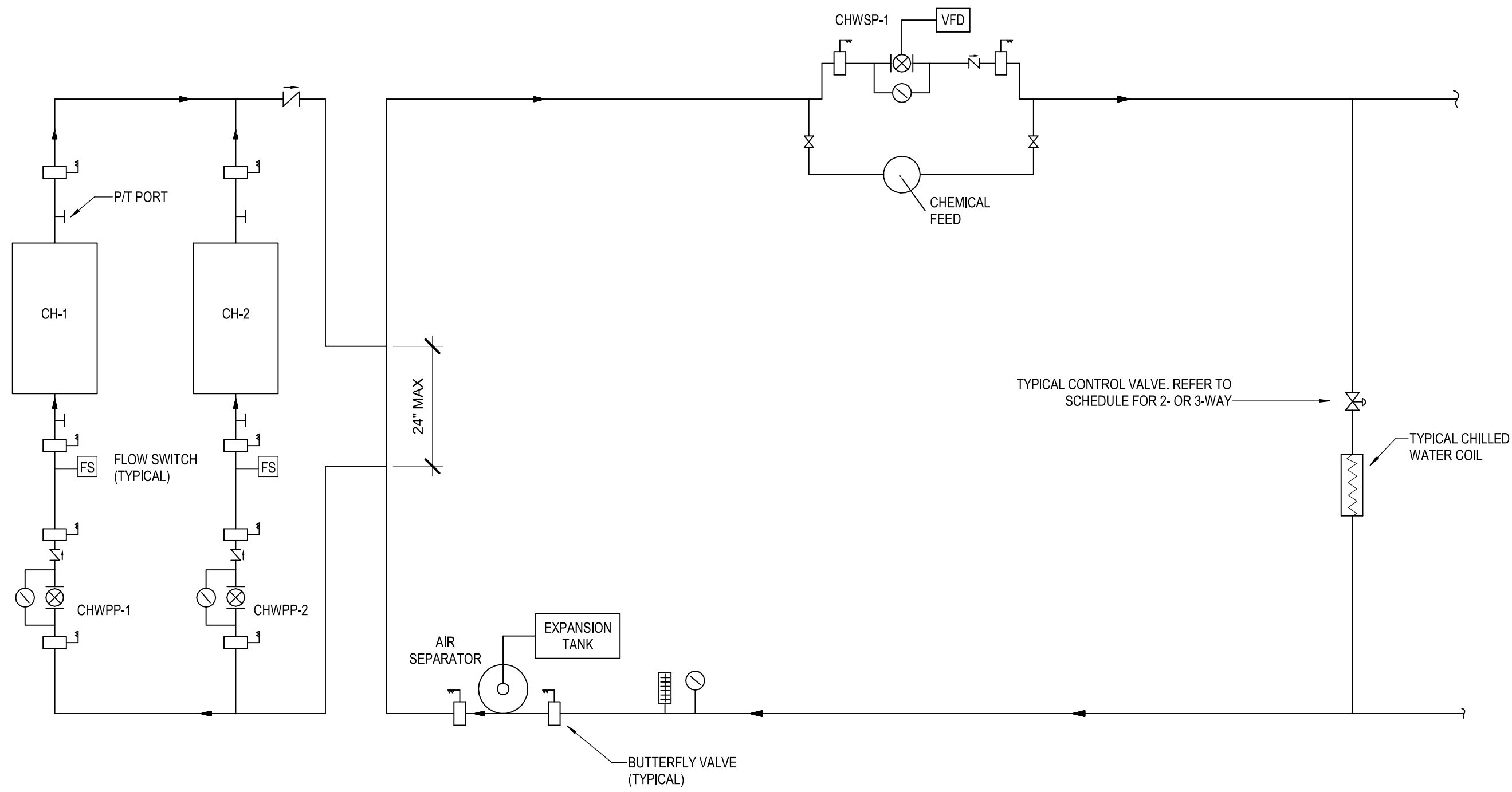
BACNET INTEGRATION POINTS LIST FOR AIR-COOLED CHILLER

MS	CONTROL MODE
MS	RUN STATUS
AI	START INHIBIT TIMER
DI	OCCUPIED
DI	CHILLER START/STOP
DO	REMOTE START CONTACT
AI	TEMPERATURE RESET
AO	CHILLED WATER SETPOINT
AI	CHILLED WATER TEMPERATURE
AO	ACTIVE DEMAND LIMIT
AI	PERCENT LINE CURRENT
AI	PERCENT LINE KILOWATTS
AI	AUTO DEMAND LIMIT INPUT
AI	AUTO CHILLED WATER RESET
AI	TOTAL COMPRESSOR STARTS
AI	COMPRESSOR ON TIME
AI	REFRIGERANT LEAK SENSOR
AI	EMERGENCY STOP
DI	CHILLED WATER FLOW STATUS
AI	OIL PRESSURE DELTA P
AI	OIL SUMP TEMPERATURE
AI	ENTERING CHILLED WATER TEMPERATURE
AI	LEAVING CHILLED WATER TEMPERATURE
AI	EVAPORATOR PRESSURE
AI	EVAPORATOR REFRIGERANT LIQUID TEMPERATURE
AI	VAPORIZER TEMPERATURE
AI	ACTIVE DELTA P
AI	ACTIVE DELTA T

VARIABLE FREQUENCY DRIVE INTERFACE POINTS LIST TABLE			
POINT NAME	HARDWIRED	INTERFACE COM CARD	GUI DISPLAY
VFD COMMAND START/STOP	X	X	HARDWIRED
VFD SPEED COMMAND (%)	X	X	HARDWIRED
PUMP/FAN STATUS (VIA VFD)	X	X	HARDWIRED
VFD SPEED FEEDBACK (Hz)		X	COM
PUMP ALARM (COMMAND/STATUS MISMATCH)		X	COM
VFD FAULT STATUS		X	COM
VFD FAULT RESET		X	COM
VFD POWER (KW)		X	COM
TIMESTAMP		X	COM



CHILLED WATER SYSTEM WITH TWO AIR COOLED CHILLERS



CHILLED WATER PIPING SCHEMATIC

RECORD DRAWINGS: MARCH 2024

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Craven County Schools
Tucker Creek Middle School HVAC
Upgrades
200 Sermons Blvd.
Havelock, NC 28532

ID	DATE	DESCRIPTION
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CHECKED BY: SWC

CHILLED WATER SYSTEM SCHEMATICS

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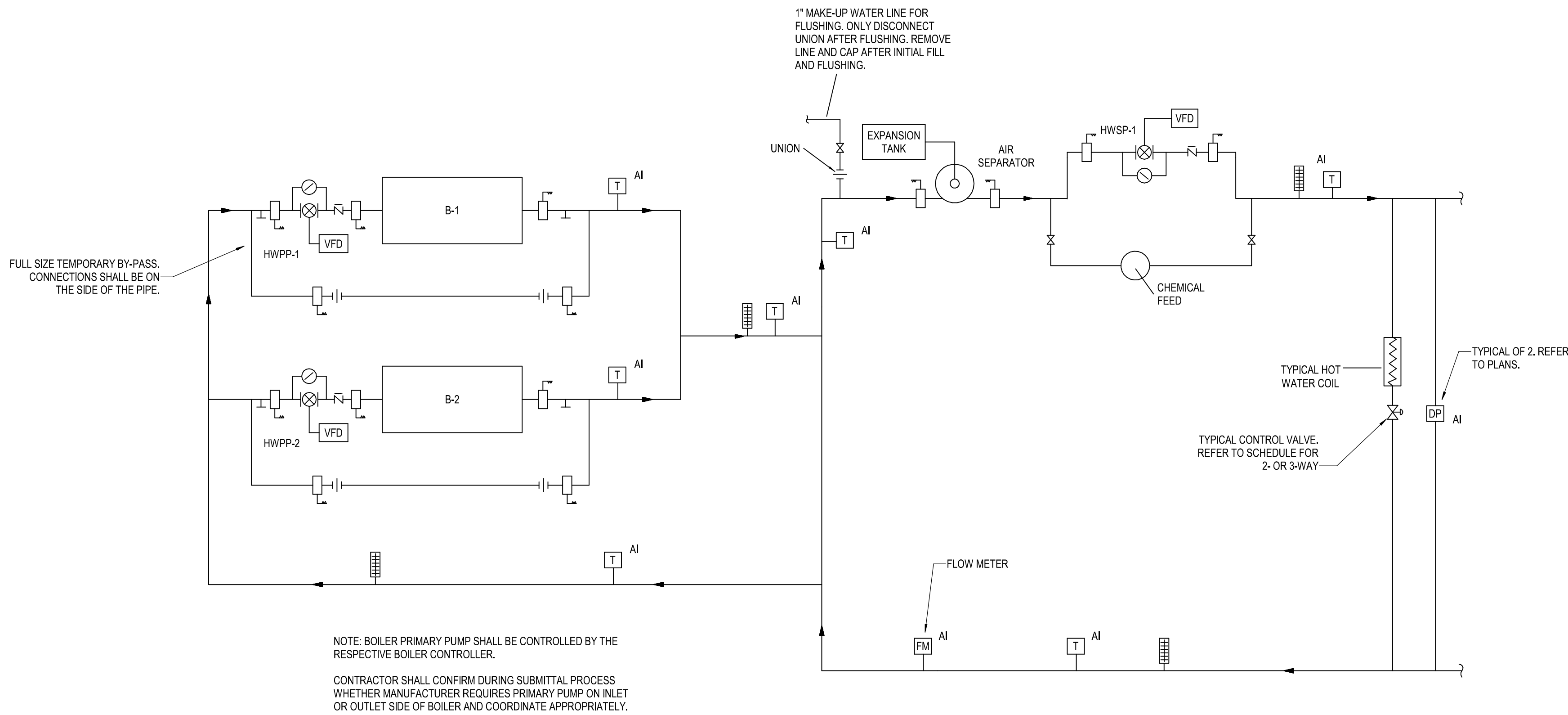
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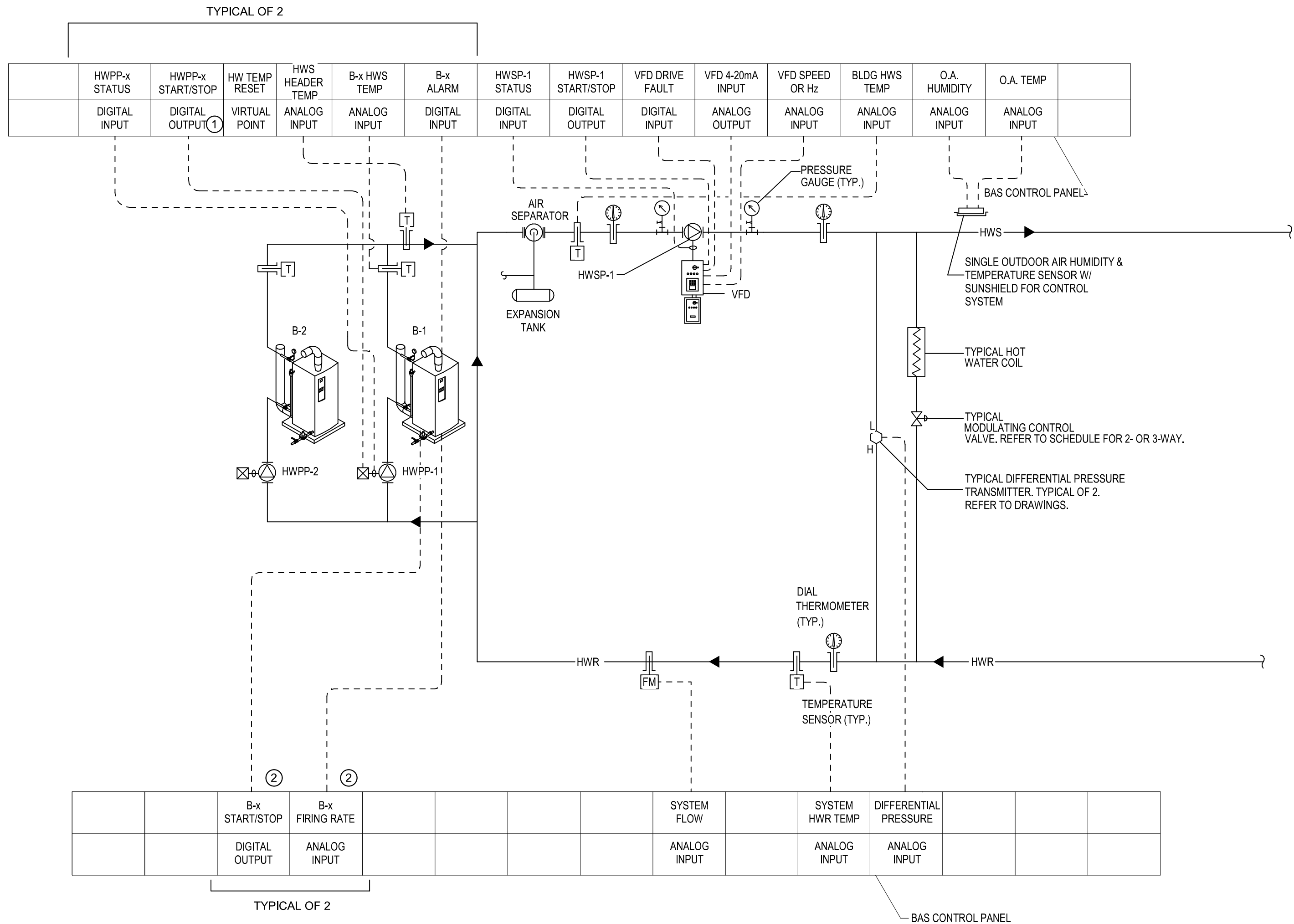


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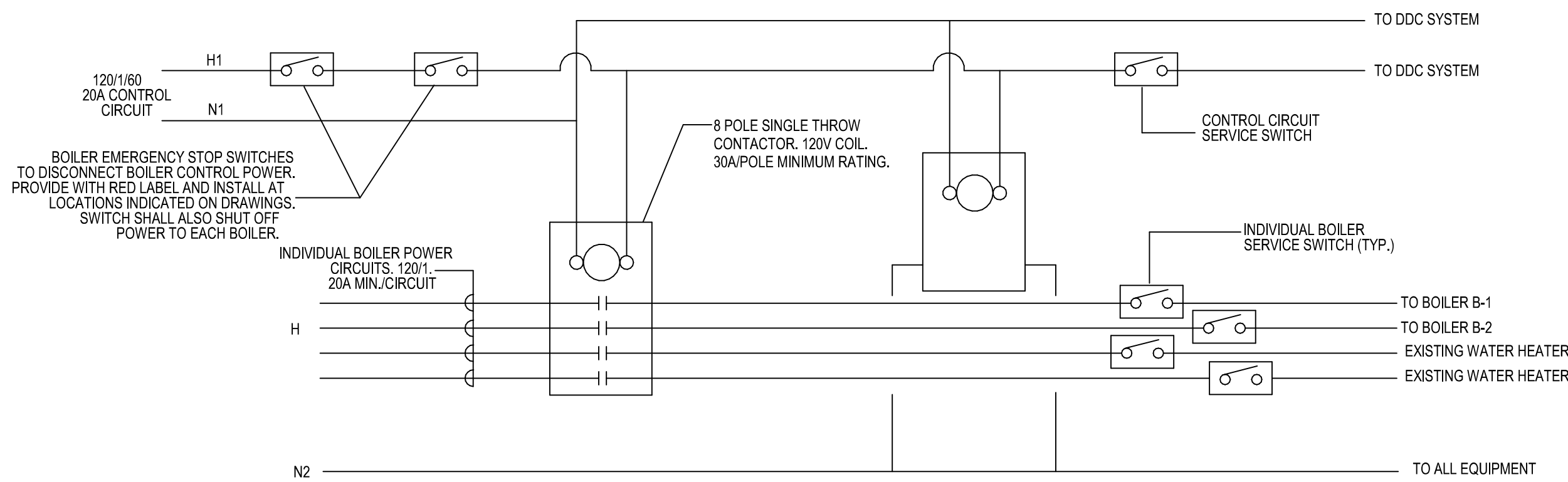


HOT WATER PIPING SCHEMATIC

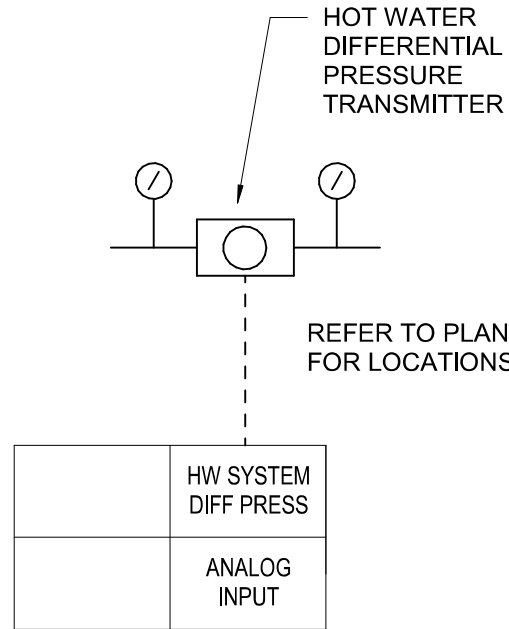


TYPICAL HOT WATER HEATING SYSTEM

- PRIMARY PUMPS TO BE CONTROLLED BY RESPECTIVE BOILER VIA 0-10VDC OR 4-20mA SIGNAL TO PUMP VFD. BAS TO MONITOR STATUS ONLY.
- BOILER STAGING AND FIRING RATE SHALL BE CONTROLLED BY BOILER MANUFACTURER'S FACTORY SUPPLIED CONTROLLER. BAS SHALL ENABLE AND MONITOR THE SYSTEM ONLY.



BOILER EMERGENCY OFF - TYPICAL



DIFFERENTIAL PRESSURE TRANSMITTERS-TYPICAL

HOT WATER PLANT SEQUENCE OF OPERATIONS

THE HOT WATER SYSTEM SHALL BE ENABLED TO OPERATE WHEN:

- ONE OR MORE (ADJ) AHUs OR UNIT HEATERS IS MAKING BOILER PLANT REQUESTS
- DEHUMIDIFICATION MODE IS ACTIVE

NOTE: THE OWNER SHALL HAVE THE ABILITY TO REMOVE "ROGUE" ZONES FROM THE BOILER PLANT REQUEST LOOP.

THE HOT WATER SECONDARY PUMP IS A VARIABLE FLOW PUMP WITH VARIABLE FREQUENCY DRIVE. WHEN THE BOILER PLANT IS ENABLED BY THE BAS, THE VARIABLE FREQUENCY DRIVE OF THE SECONDARY PUMP SHALL START AT MINIMUM SPEED. THE VARIABLE FREQUENCY DRIVE FOR THE PUMP SHALL BE CONTROLLED BY DIFFERENTIAL PRESSURE SENSORS IN THE HEATING WATER PIPING SYSTEM. THE DRIVE SPEED SHALL BE INCREASED IN RESPONSE TO THE SENSOR FURTHEST BELOW SETPOINT. THE DRIVE SPEED WILL BE DECREASED IN RESPONSE TO THE SENSOR CLOSEST TO SETPOINT IF BOTH SENSORS ARE ABOVE SETPOINT. IF THE PUMP FAILS TO START OR FAILS DURING OPERATION, IT SHALL BE DISABLED AND AN ALARM SENT TO THE OPERATOR WORKSTATION FRONT END.

THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE DYNAMICALLY RESET USING TRIM AND RESPOND LOGIC. THE MAXIMUM PRESSURE LIMIT IS THE PRESSURE REQUIRED TO PROVIDE FULL FLOW TO ALL HEATING CONTROL VALVES (WITH SOME CLOSED FOR DIVERSITY). THIS LIMIT SHALL BE ESTABLISHED DURING TAB AND COMMISSIONING. THE MINIMUM PRESSURE LIMIT IS THE PRESSURE CORRELATING TO THE LOWEST SPEED THE PUMP MOTOR IS ALLOWED TO BE OPERATED AT. THIS VALUE SHALL ALSO BE ESTABLISHED DURING TAB AND COMMISSIONING. THE DIFFERENTIAL PRESSURE SETPOINT SHALL BE DYNAMICALLY RESET BETWEEN THESE MAXIMUM AND MINIMUM LIMITS BY THE BAS USING TRIM AND RESPOND LOGIC TO MAINTAIN AT LEAST ONE (1) VALVE 90% OPEN OR MORE BASED ON REQUESTS FROM EACH ZONE. A RUNNING TOTAL OF THE RESET REQUESTS GENERATED FROM EACH ZONE SHALL BE RETAINED AND STORED TO IDENTIFY CRITICAL ZONES AND ZONES DRIVING THE RESET LOGIC. OWNER SHALL HAVE THE ABILITY TO REMOVE ANY ZONE FROM DRIVING THE RESET LOOP.

THE BAS SHALL GENERATE AN ALARM IF THE SYSTEM PRESSURE DEVIATES FROM SETPOINT BY GREATER THAN 5 PSI (ADJ) FOR MORE THAN 5 MINUTES (ADJ), IF A PUMP FAILS TO START, OR IF THE VARIABLE FREQUENCY DRIVE INDICATES AN ALARM.

THE BOILER START SEQUENCE, BOILER PRIMARY PUMP, BOILER DISCHARGE TEMPERATURE, BOILER FIRING RATE, AND BOILER SEQUENCING SHALL BE CONTROLLED BY THE MANUFACTURER'S BOILER CONTROL PANEL.

THE BOILER PRIMARY PUMP VFD SPEED SHALL BE CONTROLLED BY A SIGNAL FROM THE BOILER CONTROL PANEL (4-20 mA OR 0-10V) TO MAINTAIN AS CLOSE TO THE DESIGN 30°F DELTA T AS POSSIBLE WHILE MAINTAINING THE MANUFACTURER'S MINIMUM FLOW THROUGH THE BOILER.

THE HEATING WATER SUPPLY TEMPERATURE SETPOINT SHALL BE RESET FROM 150°F HEATING SUPPLY WATER TEMPERATURE AT 35°F OUTSIDE AIR TEMPERATURE OR BELOW TO 120°F HEATING SUPPLY WATER TEMPERATURE AT 60°F OUTSIDE AIR TEMPERATURE OR ABOVE. THE INITIAL FIXED SETPOINT FOR THE HEATING SUPPLY WATER TEMPERATURE SHALL BE 150°F. AN ALARM SIGNAL SHALL BE SENT TO THE BAS IF THE BOILER PLANT IS ENABLED AND THE HEATING SUPPLY WATER TEMPERATURE DROPS BELOW 115°F (ADJ) FOR 10 MINUTES (ADJ). BOILERS SHALL BE CYCLED LEAD/LAG WEEKLY TO BALANCE RUN-TIME. WHEN A BOILER IS SHUTDOWN, ITS ASSOCIATED PRIMARY PUMP SHALL CONTINUE TO RUN AT MEDIUM SPEED FOR 5 MINUTES (ADJ) AFTER THE BOILER HAS STOPPED FIRING.

THE BAS SHALL GENERATE AN ALARM IF ANY BOILER OR HOT WATER PRIMARY PUMP VARIABLE FREQUENCY DRIVE INDICATES AN ALARM OR FAILS TO START.

ALL BOILERS (INCLUDING THE EXISTING WATER HEATERS) SHALL BE DISABLED (REMOVAL OF POWER FROM THE CONTROLLER) IF THE EMERGENCY PUSH BUTTON AT THE BOILER ROOM EXIT DOOR IS PUSHED.

IN ADDITION TO THE SEQUENCE NOTED ABOVE THE BAS SHALL MONITOR THE FOLLOWING DIGITAL AND ANALOG INPUT POINTS:

- HOT WATER SYSTEM FAULT AND ALARM AT EACH BOILER
- HOT WATER SUPPLY AND RETURN TEMPERATURES IN THE HOT WATER LOOP
- BOILER PANEL ALARM
- OUTDOOR AIR TEMPERATURE AND HUMIDITY
- SYSTEM HOT WATER FLOW RATE VIA FLOW METER
- RUN HOURS OF EACH PUMP AND EACH BOILER

ALARMS LEVELS

ALARMS SHALL BE GROUPED INTO A MINIMUM OF THREE (3) LEVELS. HIGHER LEVEL ALARMS SHALL AUTOMATICALLY SUPPRESS LOWER LEVEL ALARMS. FOR EXAMPLE, A BOILER FAILURE SHALL SUPPRESS A LOW SUPPLY TEMPERATURE ALARM.

BACNET INTEGRATION POINTS LIST FOR CONDENSING BOILER

- AI FIRE RATE OUT
- AI ACTIVE SETPOINT
- AI FIRE RATE IN
- AI OUTLET TEMPERATURE
- AI DISPLAY CODE
- DI UNIT STATUS
- AI RUN CYCLES
- AI RUN HOURS
- AI OXYGEN
- AI EXHAUST TEMPERATURE

BACNET INTEGRATION POINTS LIST BOILER PLANT

- AI FIRE RATE OUT
- AI HEADER SETPOINT TEMPERATURE
- AI HEADER TEMPERATURE
- AI OUTSIDE AIR TEMPERATURE
- AI DISPLAY CODE
- AI NUMBER OF BOILERS FIRED
- AI NUMBER OF BOILERS ONLINE
- AI LAST BOILER FIRED
- DI BOILER 1 STATUS
- DI BOILER 2 STATUS
- AI RETURN TEMPERATURE

VARIABLE FREQUENCY DRIVE INTERFACE POINTS LIST TABLE

POINT NAME	HARDWIRED	INTERFACE COM CARD	GUI DISPLAY
VFD COMMAND START/STOP	X	X	HARDWIRED
VFD SPEED COMMAND (%)	X	X	HARDWIRED
PUMP STATUS (VIA VFD)	X	X	HARDWIRED
VFD SPEED FEEDBACK (Hz)		X	COM
PUMP ALARM (COMMAND/STATUS MISMATCH)		X	COM
VFD FAULT STATUS		X	COM
VFD FAULT RESET		X	COM
VFD POWER (KW)		X	COM
TIMESTAMP		X	COM

RECORD DRAWINGS: MARCH 2024

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CRAVEN COUNTY SCHOOLS
TUCKER CREEK MIDDLE SCHOOL HVAC
UPGRADES
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Havelock, NC 28532

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HOT WATER
SYSTEM
SCHEMATIC

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FAN COIL SEQUENCE OF OPERATIONS

RUN CONDITIONS - SCHEDULED:
SEQUENCES WILL BE INITIATED 30 MINUTES (ADJ.) OR MORE PRIOR TO BUILDING OCCUPANCY SCHEDULE BASED ON OPTIMIZED START PARAMETERS. THE OUTSIDE AIR DAMPER SHALL BE OPEN IN OCCUPIED MODE AND CLOSED IN MORNING WARM-UP, COOL-DOWN, OR UNOCCUPIED MODES.

THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
75°F (ADJ.) COOLING SETPOINT
70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
81°F (ADJ.) COOLING SETPOINT.
64°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANTS SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR (OPERATOR SHALL HAVE ABILITY TO LOCK OUT LOCAL ADJUSTMENT). THE ZONE SENSOR MAY BE OVERRIDDEN AT THE BAS OPERATOR WORKSTATION.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME (DEFAULT, 2 HOURS, ADJ.). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

UNIT INTERLOCKS:
THE AHU SHALL BE INTERLOCKED WITH THE EXISTING EXHAUST FANS ON THE EXISTING ZONE..

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ZONE TEMPERATURE CONTROL:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND SHALL MODULATE THE HEATING AND COOLING CONTROL VALVES TO MAINTAIN ZONE TEMPERATURE SETPOINT.

COOLING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE RETURN RELATIVE HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 60% RH (ADJ.). DURING DEHUMIDIFICATION MODE, THE COOLING COIL DISCHARGE AIR TEMPERATURE SHALL BE RESET TO 53 DEG F (ADJ.) AND THE REHEAT COIL (HOT WATER OR ELECTRIC HEAT) SHALL MODULATE TO MAINTAIN A SUPPLY AIR SETPOINT 2°F (ADJ.) LESS THAN THE ZONE COOLING SETPOINT. THE FAN SPEED SHALL BE RESET TO 50% OF DESIGN FLOW DURING DEHUMIDIFICATION MODE.

DEHUMIDIFICATION SHALL BE ENABLED WHENEVER:

- THE SUPPLY FAN STATUS IS ON.
- RETURN AIR RELATIVE HUMIDTY EXCEEDS 60% (ADJ.)
- AND THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 50 DEG F (ADJ.)

RETURN AIR HUMIDITY:
THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR HUMIDITY CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 65% (ADJ.) FOR 15 MINUTES

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 85°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 55°F (ADJ.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 110°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

GENERAL ZONING/SCHEDULING

EACH AHU IS A ZONE THAT CAN BE INDIVIDUALLY ASSIGNED AN OPERATION SCHEDULE OR OPERATE IN CONJUNCTION WITH OTHER ZONES AS DEFINED BY THE OWNER. IF AN OVERRIDE BUTTON ASSOCIATED WITH THE AHU IS PUSHED DURING NORMALLY OCCUPIED TIMES, NO CHANGE IN OPERATION WILL OCCUR. IF AN OVERRIDE BUTTON IS PUSHED DURING NORMALLY UNOCCUPIED TIMES, BOTH THE AHU AND CENTRAL HEATING AND/OR COOLING PLANT WILL TURN ON AND OPERATE IN THE OCCUPIED MODE FOR THE PROGRAMMED TIME DURATION (SET FOR ONE HOUR).

SCHEDULING
REGULAR SCHEDULING: EACH ZONE SHALL HAVE REGULAR, DAY-TO-DAY SCHEDULE OF OCCUPIED HOURS. THE OWNER SHALL BE CONSULTED DURING THE SUBMITTAL PHASE TO ESTABLISH ALL SCHEDULES. AN OPTIMIZED START ALGORITHM SHALL BE USED. THE HVAC EQUIPMENT IN EACH ZONE WILL START EARLY ENOUGH SO THAT THE SPACE TEMPERATURES IN EACH ZONE ARE AT SETPOINT BY THE BEGINNING OF OCCUPIED HOURS. THE START TIME SHALL BE AUTOMATICALLY ADJUSTED WITH CHANGES IN OUTSIDE AIR TEMPERATURE AND OTHER FACTORS.

HOLIDAYS: HOLIDAYS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE. DURING SCHEDULED HOLIDAYS, THE ZONES REMAIN IN UNOCCUPIED MODE. CONSULT THE OWNER ON HOLIDAY SCHEDULING.

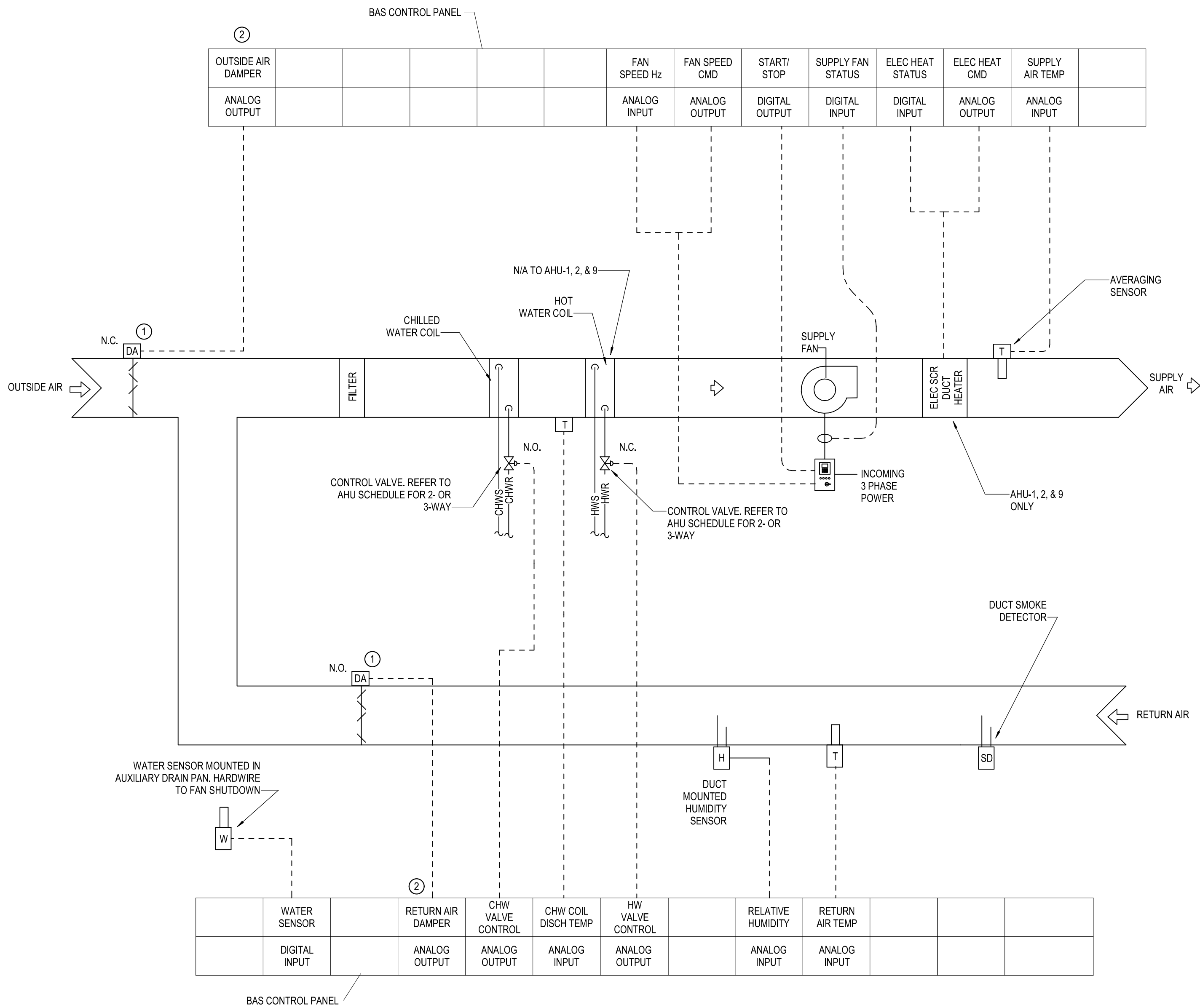
SPECIAL EVENT SCHEDULING: SPECIAL EVENTS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE DURING WHICH A ZONE WILL OPERATE IN OCCUPIED MODE REGARDLESS OF THE ZONE'S REGULAR SCHEDULE OR SCHEDULED HOLIDAYS.

BAS OPERATOR OVERRIDES: THE BAS OPERATOR SHALL BE ABLE TO OVERRIDE THE ENTIRE BUILDING EITHER ON OR OFF AT SINGLE POINTS IN THE GLOBAL CONTROL MODULE'S SOFTWARE.

ALARMS
MAINTENANCE INTERVAL ALARM WHEN FAN HAS OPERATED FOR MORE THAN 1,500 HOURS. RESET INTERVAL COUNTER WHEN ALARM IS ACKNOWLEDGED. FAN ALARM IS INDICATED BY THE STATUS BEING DIFFERENT FROM THE COMMAND FOR A PERIOD OF 15 SECONDS.

ALARM LEVELS

ALARMS SHALL BE GROUPED INTO A MINIMUM OF THREE (3) LEVELS. HIGHER LEVEL ALARMS SHALL AUTOMATICALLY SUPPRESS LOWER LEVEL ALARMS.



CONSTANT VOLUME AIR FAN COIL UNIT

TYPICAL FOR AHU-10, 18, 19, 20,
21, 22, 26, 27 & 28

KEYNOTES

1. DAMPER IS INTEGRAL TO AHU. CONTROLS CONTRACTOR SHALL PROVIDE ACTUATOR.
2. AHUs 18, 19, 20, 21 & 22 DO NOT HAVE OUTSIDE AIR AND RETURN AIR DAMPERS.

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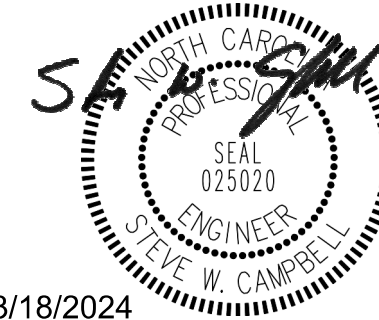
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CRAVEN COUNTY SCHOOLS
TUCKER CREEK MIDDLE SCHOOL HVAC
UPGRADES
200 Sermons Blvd.
Havelock, NC 28532

ID DATE DESCRIPTION

DRAWN BY: JAV

CHECKED BY: SWC

FAN COIL
SCHEMATIC

22003

11/1/22

M6-05

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CONDENSATE PUMP SCHEDULE		PUMP SCHEDULE													
HARTNELL MODEL PABX-115, 115V, 1.6 AMP, 1/20 HP, 18 FT LIFT AT 90 GAL/HR, INTEGRAL FULL FLOW CHECK VALVE AND SAFETY AUXILIARY SWITCH, THREE INLET OPTIONS WITH ALTERNATE INLET AT BASE. APPROXIMATE DIMENSIONS: 6"W x 10"L x 10"H. FOUR QUART RESERVOIR.		MARK	MANUFACTURER	SERIES	MODEL	GPM	HEAD (FT)	EFF (%)	BHP	HP	IMP (IN)	RPM	V	PH	REMARKS
PROVIDE A PUMP FOR THE FOLLOWING UNITS: AHU-18, AHU-19, AHU-20, AHU-21, AND AHU-22		CHWPP-1	ARMSTRONG	4300	5x5x8	370	50	76.8	6.08	7.5	8.2	1732	480	3	
		CHWPP-2	ARMSTRONG	4300	5x5x8	370	50	76.8	6.08	7.5	8.2	1732	480	3	
		CHWSP-1	ARMSTRONG	4300	6x6x10	740	85	79.5	19.9	25.0	10.2	1777	480	3	
		HWPP-1	ARMSTRONG	4300	2x2x8	128	40	62.7	2.06	3.0	7.4	1657	480	3	
		HWPP-2	ARMSTRONG	4300	2x2x8	128	40	62.7	2.06	3.0	7.4	1657	480	3	
		HWSP-1	ARMSTRONG	4300	3x3x10	256	80	66.9	7.51	10.0	9.8	1685	480	3	
		<div>GENERAL NOTES:</div> <div>A. ALL PUMPS SHALL HAVE NON-OVERLOADING INVERTER DUTY MOTORS WITH AEGIS SHAFT GROUNDING RING</div> <div>B. PROVIDE WITH SUCTION DIFFUSER AND TRIPLE DUTY VALVE (OR WAFER CHECK AND SHUTOFF)</div> <div>C. EQUIVALENTS TACO, ARMSTRONG, OR AS LISTED IN SPECIFICATIONS</div> <div>D. CONTROLS CONTRACTOR SHALL PROVIDE VFDs FOR ALL PUMPS</div> <div>E. PUMPS SHALL BE VERTICAL IN-LINE TYPE. PROVIDE SPLIT COUPLED MODELS FOR MOTORS LARGER THAN 5.0 HP</div>													

AIR HANDLING UNIT SCHEDULE																														
MARK	MANUFACTURER	MODEL	OA CFM	SUPPLY FAN								COOLING COIL								REHEAT COIL								ELECTRICAL	REMARKS	
				CFM	QTY	HP	BHP	ESP IN. WG	TSP IN. WG	FAN RPM	MOTOR RPM	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	GPM	CONTROL VALVE	EDB (°F)	LDB (°F)	HEATING (MBH)	CFM	GPM	CONTROL VALVE	V	PH			WEIGHT (LBS)
AHU-1	TRANE	UCCAF10	400	4875	1	5.0	3.90	1.1	2.55	1127	1200	75.7	65.4	53.4	53.0	180.1	120.9	36	3-WAY	60.5	-	-	-	-	480 V	3	1100	63x63x70	1,3	
AHU-2	TRANE	UCCAF14	500	6825	1	7.5	5.16	1.1	2.41	996	1200	75.6	65.2	54.3	54.0	231.3	160.3	46	2-WAY	61.0	-	-	-	-	480 V	3	1500	70x71x84	1,3	
AHU-3	TRANE	UCCAF21	1700	8375	1	7.5	7.14	1.2	2.71	875	1200	76.6	67.4	51.8	51.7	398.3	229.5	79	2-WAY	54.0	93.4	357.5	8375	24	2-WAY	480 V	3	2400	76x79x99	1
AHU-4	TRANE	UCCAF21	1950	10150	1	15.0	9.76	1.2	2.87	925	1200	76.5	67.2	54.6	54.3	406.8	245.9	81	2-WAY	54.6	90.8	398.2	10150	27	2-WAY	480 V	3	2400	76x79x99	1
AHU-5	TRANE	UCCAF21	1700	8375	1	7.5	7.14	1.2	2.71	875	1200	76.6	67.4	51.8	51.7	398.3	229.5	79	2-WAY	54.0	93.4	357.5	8375	24	2-WAY	480 V	3	2400	76x79x99	1
AHU-6	TRANE	UCCAF21	1950	10150	1	15.0	9.76	1.2	2.87	925	1200	76.5	67.2	54.6	54.3	406.8	245.9	81	2-WAY	54.6	90.8	398.2	10150	27	2-WAY	480 V	3	2400	76x79x99	1
AHU-7	TRANE	UCCAF21	1700	8375	1	7.5	7.14	1.2	2.71	875	1200	76.6	67.4	51.8	51.7	398.3	229.5	79	2-WAY	54.0	93.4	357.5	8375	24	2-WAY	480 V	3	2400	76x79x99	1
AHU-8	TRANE	UCCAF21	1950	10150	1	15.0	9.76	1.2	2.87	925	1200	76.5	67.2	54.6	54.3	406.8	245.9	81	2-WAY	54.6	90.8	398.2	10150	27	2-WAY	480 V	3	2400	76x79x99	1
AHU-9	TRANE	UCCAF12	950	5250	1	5.0	3.55	1.0	2.44	918	1200	76.4	67.0	52.4	52.3	234.3	139.3	47	3-WAY	55.2	-	-	-	-	480 V	3	1300	65x71x80	3	
AHU-10	TRANE	BCHED36	300	1200	1	1.0	0.85	0.5	1.72	1737	1800	77.0	68.1	53.2	52.0	59.3	31.6	11	3-WAY	51.6	97	60.0	1200	4	3-WAY	480 V	3	800	57x42x18	2
AHU-11	TRANE	UCCAF12	600	5950	1	5.0	4.24	0.8	2.41	930	1200	75.8	65.7	54.5	54.2	208.2	138.7	42	2-WAY	59.5	91.3	205.5	5950	14	3-WAY	480 V	3	1700	65x71x80	1
AHU-12	TRANE	UCCAF10	750	4200	1	3.0	2.43	0.8	2.43	1084	1200	76.4	67.0	52.8	52.7	182.7	109.4	37	2-WAY	55.3	89.8	156.9	4200	11	3-WAY	480 V	3	1400	63x63x70	1
AHU-13	TRANE	UCCAF21	3650	9750	1	10.0	8.22	0.9	2.43	865	1200	79.5	67.3	54.3	54.0	401.5	270.7	80	2-WAY	52.0	90.4	406.5	9750	27	2-WAY	480 V	3	2000	76x79x99	1
AHU-14	TRANE	UCCAF10	500	4325	1	5.0	3.20	0.8	2.48	1096	1200	77.1	66.0	52.7	52.6	173.9	116.2	35	2-WAY	58.0	90.2	150.7	4325	10	2-WAY	480 V	3	1300	63x63x70	1
AHU-18	TRANE	BCHED90	0	3000	1	3.0	2.55	0.5	1.70	1136	1200	81.0	66.5	54.3	53.2	121.1	88.3	23	3-WAY	62.0	98.0	119.9	3000	9	3-WAY	480 V	3	600	71x48x26	2
AHU-19	TRANE	BCHED54	0	1800	1	1.5	1.21	0.5	1.68	1626	1800	81.0	66.5	54.8	53.5	70.9	51.9	13.5	2-WAY	62.0	98.0	70.0	1800	5	2-WAY	480 V	3	425	60x46x18	2
AHU-20	TRANE	BCHED54	0	1800	1	1.5	1.21	0.5	1.68	1626	1800	81.0	66.5	54.8	53.5	70.9	51.9	13.5	2-WAY	62.0	98	70.0	1800	5	2-WAY	480 V	3	425	60x46x18	2
AHU-21	TRANE	BCHED54	0	1800	1	1.5	1.21	0.5	1.68	1626	1800	81.0	66.5	54.8	53.5	70.9	51.9	13.5	2-WAY	62.0	98	70.0	1800	5	2-WAY	480 V	3	425	60x46x18	2
AHU-22	TRANE	BCHED54	0	1800	1	1.5	1.21	0.5	1.68	1626	1800	81.0	66.5	54.8	53.5	70.9	51.9	13.5	2-WAY	62.0	98	70.0	1800	5	2-WAY	480 V	3	425	60x46x18	2
AHU-26	TRANE	BCHED54	350	1500	1	1.0	0.78	0.5	1.53	1502	1800	76.9	67.9	54.3	53.4	67.6	37.5	13	3-WAY	52.4	98	75.0	1500	5	3-WAY	480 V	3	425	60x46x18	2
AHU-27	TRANE	BCHED54	350	1500	1	1.0	0.78	0.5	1.53	1502	1800	76.9	67.9	54.3	53.4	67.6	37.5	13	3-WAY	52.4	98	75.0	1500	5	3-WAY	480 V	3	425	60x46x18	2
AHU-28	TRANE	BCHED54	350	1500	1	1.0	0.78	0.5	1.53	1502	1800	76.9	67.9	54.3	53.4	67.6	37.5	13	2-WAY	52.4	98	75.0	1500	5	2-WAY	480 V	3	425	60x46x18	2
AHU-35	TRANE	UCCAF12	2100	5500	1	5.0	4.21	1.0	2.79	980	1200	78.0	70.2	52.8	52.7	304.4	153.6	61	2-WAY	44.7	87.5	255.1	5500	17	3-WAY	480 V	3	1700	65x71x80	1
AHU-36	TRANE	UCCAF08	765	3050	1	3.0	2.13	0.8	2.33	1248	1200	77.0	68.2	53.9	53.8	136.6	77.7	27	3-WAY	51.5	83.2	104.9	3050	7	3-WAY	480 V	3	1200	65x71x80	1

GENERAL NOTES:

- A. ALL AIR HANDLERS SHALL CONSIST OF MODULAR CONSTRUCTION (MADE UP OF INDIVIDUAL SECTIONS).
- B. MAXIMUM COIL FACE VELOCITY OF 475 FPM, MAXIMUM FILTER FACE VELOCITY OF 300 FPM.
- C. UNITS SHALL BE DOUBLE WALLED (SOLID), INSULATED WITH 2" INJECTED FOAM INSULATION.
- D. PROVIDE A DOUBLE SLOPED STAINLESS STEEL DRAIN PAN UNDER EACH COIL.
- E. ALL UNITS ARE DRAW THROUGH TYPE. REFER TO SECTIONS AND AHU DETAILS FOR LAYOUT.
- F. CONTRACTOR SHALL FIELD VERIFY LEFT/RIGHT HAND ORIENTATION.
- G. COOLING:
MINIMUM OF 6 ROW COOLING COIL WITH A MAXIMUM OF 12 FOOT WATER PRESSURE DROP, 45°F EWT / 55°F LWT, MAXIMUM OF 12 FINS/INCH.
- H. HEATING:
MINIMUM OF 1 ROW HEATING COIL WITH A MAXIMUM OF 5 FOOT WATER PRESSURE DROP, 150°F EWT / 120°F LWT, MAXIMUM OF 10 FINS/INCH.
- I. AIRSIDE PRESSURE DROPS:
0.25" HOT WATER COIL (MAXIMUM)
1.10" CHILLED WATER COIL (MAXIMUM)
0.80" DIRTY FILTER (INCLUDE IN SYSTEM STATIC PRESSURE)
- L. ALL FANS SHALL BE INTERNALLY ISOLATED.

- J. ALL UNITS SHALL HAVE A FLAT FILTER SECTION WITH 2" MERV-13 FILTERS, PROVIDE ONE SET IN THE UNIT AND TWO EXTRA SETS, ONE EXTRA SET SHALL BE INSTALLED AFTER THE SYSTEM IS BALANCED AND THE BUILDING IS CLEAN, THE FINAL SET SHALL BE TURNED OVER TO OWNER.
- K. APPROVED EQUALS:
CARRIER, JOHNSON
- L. ALL AIR HANDLERS SHALL BE U.L. LISTED.
- M. ALL UNITS SHALL BE SHIPPED WITH 6" BASERAILS.
- N. CONTROL VALVES AND ACTUATORS SHALL BE PROVIDED BY CONTROLS CONTRACTOR, REFER TO SCHEDULE ABOVE FOR 2-WAY OR 3-WAY CONFIGURATION.
- O. FILTER ACCESS SHALL NOT REQUIRE TOOLS.
- P. REFER TO DRAWINGS FOR MINIMUM ACCESS DOOR SIZES.
- Q. BASIS OF DESIGN UNITS HAVE BELT DRIVE FANS. VFD PROVIDED BY CONTROLS CONTRACTOR.

- R. PROVIDE STAINLESS STEEL COIL CASINGS.
- S. FOR UNITS WITH UCCA AS BASIS OF DESIGN, ALL COILS SHALL HAVE EPOXY COATING.
- T. ALL FANS SHALL BE SELECTED AT LESS THAN 70 Hz (2,050 RPM FOR 1,780 RPM MOTORS, 1,400 RPM FOR 1,200 RPM MOTORS) AT DESIGN CONDITIONS.
- U. DIMENSIONS OF BASIS OF DESIGN UNITS ARE INDICATED IN SCHEDULE, DO NOT EXCEED.

REMARKS:

1. CONTROLS CONTRACTOR SHALL PROVIDE VFD FOR UNIT.
2. UNIT SHALL HAVE ELECTRICALLY COMMUTATED (EC) FAN MOTOR, CONTROLS CONTRACTOR SHALL PROVIDE APPROPRIATELY SCALED LOW VOLTAGE SIGNAL TO TURN FAN ON/OFF AND MAINTAIN DESIGN SPEED.
3. UNIT SHALL HAVE DUCT MOUNTED ELECTRIC HEATING COIL, SEE SEPARATE SCHEDULE.

AHUs MUST NOT EXCEED
DIMENSIONS INDICATED.
NO EXCEPTIONS.

MECHANICAL CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS TO ASSIST IN TESTING FIRE ALARM SHUTDOWN OF ALL AHUs PRIOR TO CLOSE OUT. COORDINATE WITH OTHER SUBCONTRACTORS.

NOTE: CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING BI-POLAR IONIZATION FROM EXISTING AIR HANDLING UNITS AND TURN OVER TO OWNER PRIOR TO DEMOLITION.

RIGGING AND DISASSEMBLY/ASSEMBLY NOTES

CONTRACTOR SHALL ORGANIZE THE SHIPPING SPLITS FOR ALL UNITS TO FACILITATE INSTALLATION ALONG THE PATH OF TRAVEL THROUGH THE EXISTING (CONTRACTOR TO VERIFY OPENING) DOOR(S) INTO THE MECHANICAL ROOM(S).

IF A SECTION OF ANY AHU CANNOT BE PROCURED FROM THE MANUFACTURER TO FIT THROUGH THE EXISTING OPENING, CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY OF THE INDIVIDUAL SECTIONS, INCLUDING TAKING OFF PANELS, TAKING OFF THE FAN FROM THE FAN SECTION, ETC., REQUIRED TO FIT THE SECTIONS OF THE UNIT THROUGH THE EXISTING AVAILABLE PATH OF TRAVEL TO THE INSTALLATION LOCATION. CONTRACTOR SHALL THEN REASSEMBLE THE SECTIONS AT THE FINAL INSTALLATION LOCATION.

GENERAL TAB SCOPE

REFER TO PROJECT MANUAL SPECIFICATIONS FOR FULL REQUIREMENTS.

NO PRE-CONSTRUCTION TAB IS REQUIRED.

SCOPE OF WORK IS TO BALANCE ALL HYDRONIC FLOWS (HOT WATER AND CHILLED WATER) FOR BOILERS, CHILLERS, PUMPS, AND AHU COILS) AT THE COMPLETION OF WORK. ADJUST DIFFERENTIAL SET POINT OF EACH SYSTEM TO OPERATE PUMPS AT LOWEST POSSIBLE PRESSURE.

FOR AIR SIDE, NO BALANCING OF GRILLES, REGISTERS, OR DIFFUSERS (GRD) IS REQUIRED - EXCEPT FOR AHUs 18 - 22.

BALANCE TOTAL SUPPLY, RETURN, AND OUTSIDE AIR OF EACH AHU BY TRAVERSING DUCT WORK. BALANCING AHU FLOW USING VFD OR EC MOTOR SPEED SIGNAL.

OWNER REMOVAL

REFER TO SUPPLEMENTARY GENERAL CONDITIONS FOR ADDITIONAL INFORMATION.

RECLAIM REFRIGERANT AND OIL FROM ALL EQUIPMENT IN ACCORDANCE WITH EPA AND OTHER FEDERAL, STATE, AND LOCAL REGULATIONS.

ONCE EQUIPMENT HAS BEEN PURGED OF REFRIGERANTS AND MADE SAFE, ALL EXISTING EQUIPMENT REMOVED FROM THE BUILDING SHALL BE SET AT A LOCATION ON THE PROJECT SITE DESIGNATED BY THE OWNER. OWNER SHALL BE RESPONSIBLE FOR HAULING AWAY EQUIPMENT AND PROPER DISPOSAL.

CRAVEN COUNTY SCHOOLS
TUCKER CREEK MIDDLE SCHOOL HVAC
UPGRADES
200 Sermons Blvd.
Havelock, NC 28532

ID	DATE	DESCRIPTION
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DRAWN BY: JAV
CHECKED BY: SWC

MECHANICAL
SCHEDULES

RECORD DRAWINGS: MARCH 2024
THESE DRAWINGS HAVE BEEN REVISED TO SHOW SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS BASED ON MARKED-UP PRINTS. DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE DRAWINGS ARE NOT REPRESENTED TO CONTAIN EVERY MINOR CHANGE MADE DURING CONSTRUCTION AND ARE NOT TO BE CONSIDERED AS AS-BUILT.

22003 11/1/22

M7-01

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P.E.
SEAL
025020
W. CAMPBELL

03/18/2024

RECORD DRAWINGS

AIR-COOLED CHILLER SCHEDULE

<p>BOILER SCHEDULE (B-1, B-2)</p> <p>LAARS MAGNATHERM WATER-TUBE BOILER, MGH 2000, MODULATING CONDENSING, STAINLESS STEEL WATER-TUBE BOILER, 128 GPM AT 30 DEG DELTA T, 2,000 MBH INPUT, 1,895 MBH OUTPUT, 5.1 MODULATING FIRING INPUT, FM CONTROLS AND ALARM CONTROLLER, PROVIDE 75 PSI RELIEF VALVE, NATURAL GAS FIRED, 208V/3PH, 7.5 FLA, 15A MOCP, SUPPLY & RETURN ROTH, 1/2 INCH SUPERHEATED STEAM RETURN, 6 INCH INSULATED STEAM RETURN, PROVIDE 100 PSI F.P., PROVIDE SINGLE POINT POWER CONNECTION, COORDINATE FINAL SIZE, VOLTAGE AND PHASE OF THE ELECTRICAL REQUIREMENTS OF THE BOILER WITH THE ELECTRICIAN, PROVIDE GAS PRESSURE REGULATORS FOR EACH BOILER TO MAINTAIN 4 W.C.W. MINIMUM, PROVIDE CONDENSATE NEUTRALIZATION SYSTEM AS REQUIRED, PROVIDE AMBER LIGHTS ON EACH BOILER, PROVIDE HEATER TEMPERATURE SENSOR, PRODUCT EQUIVALENTS BY BRYAN(BP), PATTERSON-PATTISON, AND AS LISTED IN THE SPECIFICATIONS ARE ACCEPTABLE, PROVIDE BRACKET GATEWAY, COORDINATE WITH CONTRACTOR.</p>	<p>CHILLER SCHEDULE (CH-01 & CH-02)</p> <p>TRANS AIR COOLED SCROLL CHILLER, MODEL MACSA180, REFRIGERANT R-410A, 149.3 FULL LOAD TONS, 178.9 KW CAPACITY, 115 VAC, 10 HP, 1.8 AMP PER HOUR, 550/60R, NPLT TYPE 18-2HP, PROVIDE INCORPORATE EVAPORATOR ISOLATORS, PROVIDE ENCLOSURE PANELS WITH LOUVERS AROUND COMPLETE UNIT WITH LOW SOUND FANS, PROVIDE COMPREHENSIVE SOUND PACKAGE, THE OVERALL AWEIGHTED SOUND POWER LEVEL SHALL NOT EXCEED 96 DB DURING ATTENUATION, AS MEASURED PER AN STANDARD PER ANSI, PROVIDE AMBIENT OPTION REQUIRED FOR 0-125% OPERATION, PROVIDE 2-PASS EVAPORATOR WITH SUCTION AND DISCHARGE SERVICE VALVE FOR EACH COMPRESSOR, PROVIDE 1-1/4" FACTORY INSULATION ON EVAPORATOR, PROVIDE SINGLE POINT 480 VOLT POWER CONNECTION, PROVIDE CHILLER, OTHER THAN 120 VOLT, AND PROVIDE AN ADDITIONAL 120 VOLT POWER CONNECTION FOR THE</p>
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CHILLER SCHEDULE (CH-01 & CH-02)

LARS MAGNATHUR WATER/TELE BOILER, MGH 2000, MODULATING CONDENSING, STAINLESS STEEL WATER-TELE BOILER, 128 GPM AT 30 DEG DELTA T, 7,200 MBH INPUT, 1,895 MBH OUTPUT, 51; MODULATING FIRING INPUT, FM CONTROLS AND ALARM CONTACTS, PROVIDE 75 PSI RELIEF VALVE, NATURAL GAS FIRED, 208V/3PH, 7.5 FLA, 15A MOCP, 120 VAC, 60 HZ, 1 PHASE, 100% EFFICIENCY, 100% MODULATING, 100% MODULATING, 100% MODULATING, 100% MODULATING, F, PROVIDE SINGLE POINT POWER CONNECTION, COORDINATE FINAL SIZE, VOLTAGE AND PHASE, THE ELECTRICAL REQUIREMENTS OF THE BOILER WITH THE ELECTRICIAN, PROVIDE GAS PRESSURE REGULATORS FOR EACH BOILER TO PROVIDE 4" WC, MIN, 8" FULL INPUT LOAD, 2 PSI MAXIMUM, PROVIDE CONDENSATE NEUTRALIZATION KIT SIZED FOR EACH BOILER, PROVIDE HEADER TEMPERATURE SENSOR, PRODUCT EQUIVALENTS BY BRYANT (BFT), PATTERSON-KELLER, ETCOR, OR OTHER MANUFACTURERS ARE ACCEPTABLE. PROVIDE BAGNET (BAG) CONTACT, COORDINATE WITH CONTROLS CONTRACTOR.

EQUIVALENTS BY CARRIER, YORK, DAIKIN OR AS LISTED IN SPECIFICATIONS. FREEZE PROTECTION DOWN TO AN AMBIENT OF -20°F SHALL BE PROVIDED. MAINTAIN MINIMUM CLEARANCES AND UNIT TO UNIT CLEARANCES AS REQUIRED BY MANUFACTURER. MANUFACTURER SHALL PROVIDE FACTORY INSTALLED FLOW SWITCH, STRAINER, AND ANY CONTROLS AND ACCESSORIES REQUIRED TO CONTROL THE RESPECTIVE PRIMARY PUMP.

REPLACING CHILLERS IS BID ALTERNATE 4A AND 4B

ELECTRIC DUCT HEATER

GENERAL NOTES:

- A. ELECTRIC SCR HEATER SHALL BE CONTROLLED BY DCDC CONTROLS. HEAT SHALL OPERATE WHEN OUTDOOR AIR TEMPERATURE IS LESS THAN 40 DEG F (ADJ) OR MIXED AIR TEMPERATURE IS LESS THAN 50 DEG F (ADJ) PROVIDE 80/20 ELEMENT VENT, SCR CONTROLLER, AND FLANGED CONNECTIONS.
- B. PROVIDE CONTROLS TRANSFORMER, POWER FUSING, ADJUSTABLE AIRFLOW SWITCH, PILOT LIGHT, DISCONNECT SWITCH, TERMINAL BLOCKS, VAPOR BARRIER, AND MERCURY CONTACTORS. PROVIDE FLANGED CONNECTIONS AND 3/4" STEEL HEAVY WALL.
- C. HEATER OPERATOR SHALL BE LOCKED OUT WHEN UNIT IS IN COOLING OR ECONOMIZER MODE.
- D. PROVIDE COMPLETE STAINLESS STEEL CONSTRUCTION.
- E. PROVIDE ALL TRANSITIONS NECESSARY FOR CONNECTING DUCTWORK.

MARK	MANUFACTURER	MODEL	PURPOSE	FACE SIZE	INLET SIZE	REMARKS
36x16	PRICE	620	SUPPLY	36x18	36x16	
48x16	PRICE	620	SUPPLY	50x18	48x16	1
T	PRICE	APDDR	RETURN/EXHAUST	24x24	10	1, 3, 4
W	PRICE	APDDR	RETURN/EXHAUST	24x24	16	1, 2, 3, 4
Z	PRICE	APDDR	RETURN/EXHAUST	24x24	22x22	1, 2, 4

GENERAL NOTES

- A. BASIS OF DESIGN IS PRICE. EQUIVALENTS BY TITUS, KRUEGER, TUTTLE AND BAILEY, NAILOR, OR AS LISTED IN SPECIFICATIONS
- B. PROVIDE VOLUME DAMPERS AT TAKE-OFF FOR EACH GRILLE
- C. ALL AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM
- D. THE PRICE MODELS SCHEDULED HERE ARE BASIS OF DESIGN, INCLUDING GENERATED NOISE. PROPOSED SUBSTITUTIONS WILL BE JUDGED BY THOSE CRITERIA ALSO

REMARKS:

1. PROVIDE WITH OFF-WHITE ENAMEL FINISH
2. PROVIDE WITH TRIM TO MATCH CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILINGS
3. PROVIDE DIFFUSER/GRILLE WITH ROUND NECK OR PROVIDE SQUARE TO ROUND TRANSITION
4. ALL CEILING MOUNTED RETURN GRILLES SHALL BE FULL FACED. NO LAY-IN PANELS ALLOWED



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ADDENDUM 02 – ELECTRICAL

DATE: May 30, 2025

PROJECT: Unified Middle School of Havelock
PDC Project No. 24017

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Drawings:

1. Drawing E0-05 – ADDED: Two smoke detector devices in Band 514 for demolition.
2. Drawing E2-06 – Removed: Wireless Access Point (WAP) symbols from drawing.
Revised: Keynote #5 to read: “Provide connection to exhaust fan. Disconnect switch provided by Division 23. Refer to mechanical equipment schedule.”
3. Drawing E3-01 - DELETED: Exterior loud speaker.
4. Drawing E3-02 - DELETED: Exterior loud speaker.
5. Drawing E3-03 - DELETED: Exterior loud speaker.
6. Drawing FA1-01 – DELETED: F/A Pull station in Book Storage 119
ADDED: F/A Pull station in Corridor 114
ADDED: F/A Pull station in Corridor 102
7. Drawing FA1-08 – DELETED: Wall mounted F/A notification devices in Band 514, Stage 516, & Chorus 519.
ADDED: Ceiling mount F/A notification devices in Band 514, Stage 516 & Chorus 519.



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8. Drawing FA1-09 - DELETED: Wall mounted F/A notification devices in Media Center 601.
ADDED: Ceiling mount F/A notification devices in Media Center 601.
9. Drawing FA1-10 - DELETED: Wall mounted F/A notification devices in Cafeteria 701.
ADDED: Ceiling mount F/A notification devices in Cafeteria 701.

END OF ADDENDUM 02 – ELECTRICAL
Attachments: See list above

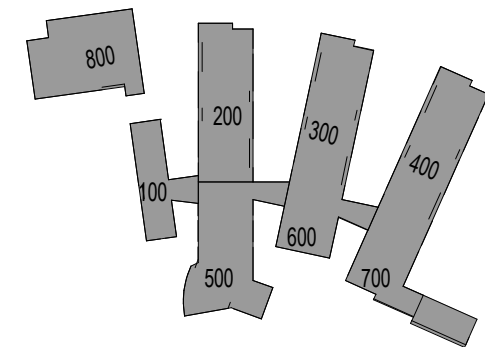
Altodesk Docs/Tucker Creek Middle School Addition/24017 Tucker Creek MS Addition, Central MEP_R24.rvt
5/24/2025 10:45:29 AM



**CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION**

**200 Sermons Blvd,
Havelock, NC 28532**

ID	DATE	DESCRIPTION
2	05/30/2025	ADDENDUM 2



DRAWN BY: TMC
CHECKED BY: JTB
**DEMOLITION PLAN -
500 WING**

2024004 07 MAY 2025

E0-05

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Smith Sinnett Architecture, P.A. 2022

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PROJECT# 24017

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024651
ARCHITECT
SMITH SINNETT

CONSTRUCTION DRAWINGS

SMOKE PARTICLES
1 HR RATED WALL

- A. REFER TO ELECTRICAL LEAD SHEET E0-00 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- B. ALL NETWORK WIRING SHALL BE PLENUM RATED.
- C. ANY NETWORK WIRING SUPPORTED FROM J-HOOKS SHALL BE SUPPORTED AT MAXIMUM 36" APART.
- D. ALL FINAL CAMERA LOCATIONS SHALL BE COORDINATED WITH CCSS IT DEPARTMENT PRIOR TO ANY ROUGH-IN.

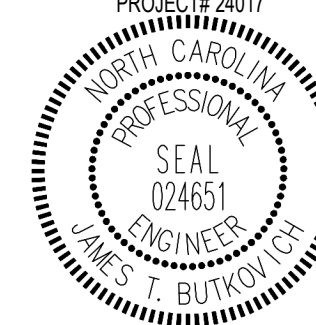
1. (1)-2" CONDUIT SLEEVES WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.
2. (2)-3" CONDUIT SLEEVES WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.

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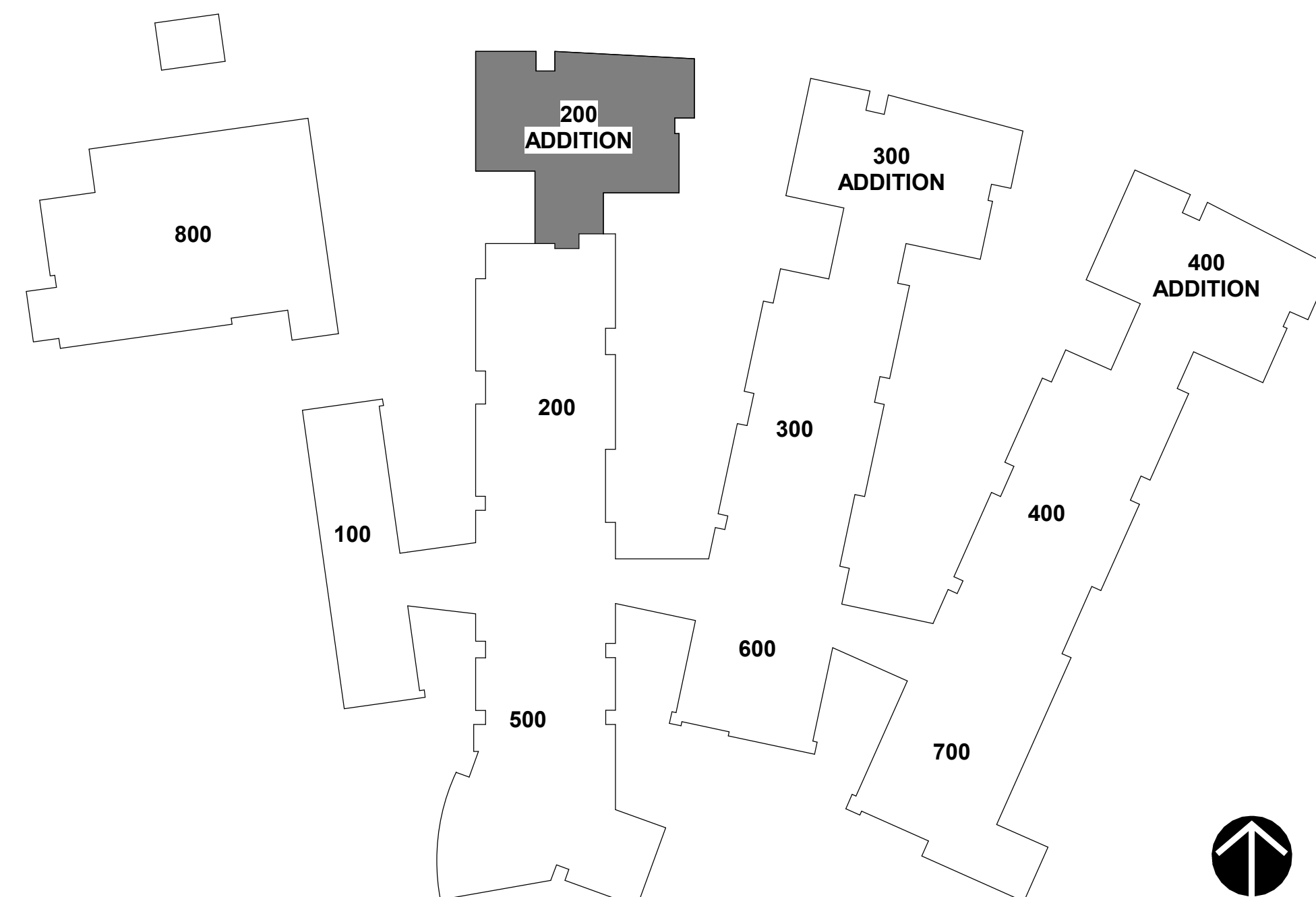
2	05/30/2025	ADDENDUM 2
1	05/23/2025	ADDENDUM 1
ID	DATE	DESCRIPTION

200 WING ADDITION
- SPECIAL
SYSTEMS PLAN

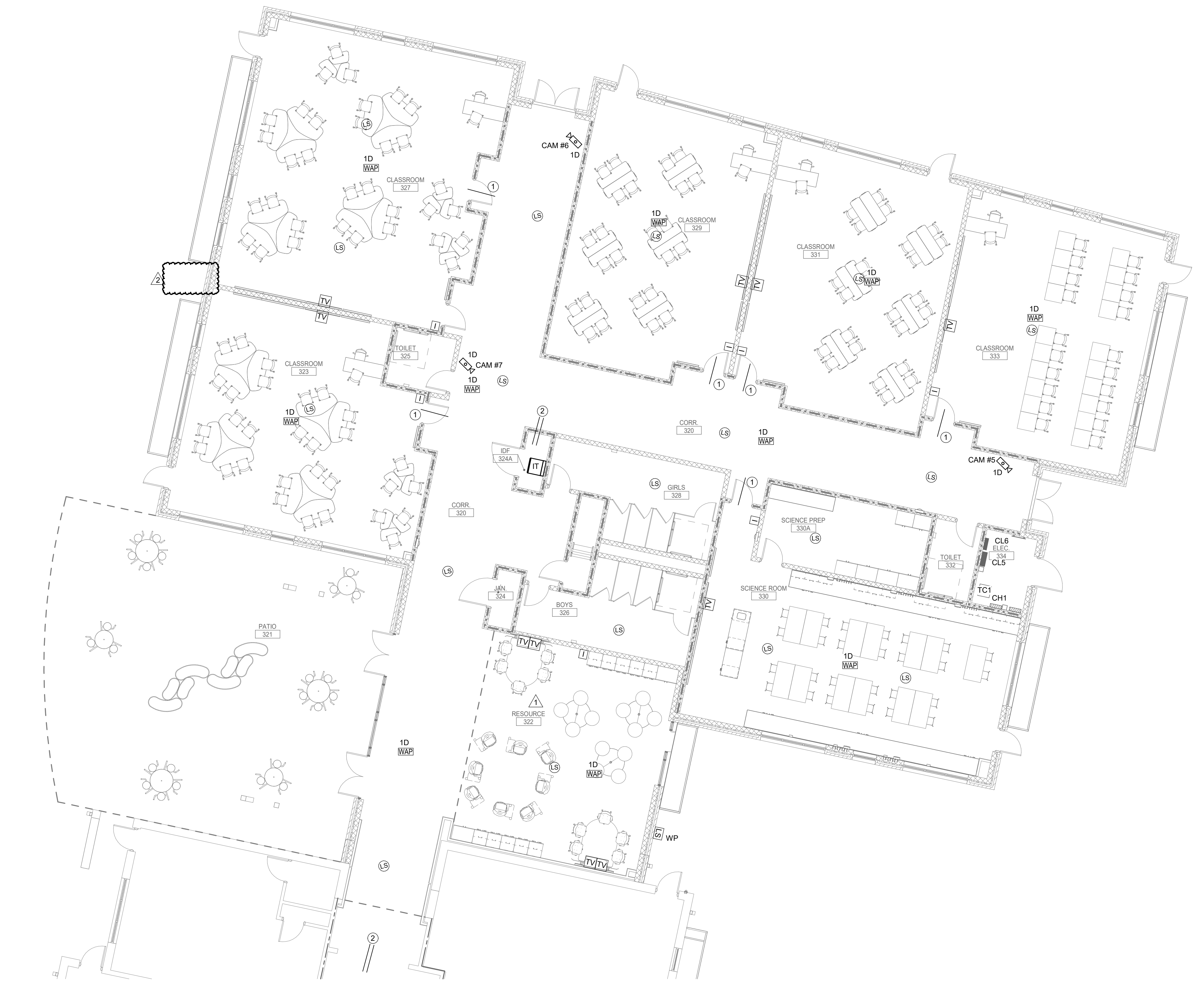
2024004

07 MAY 2025

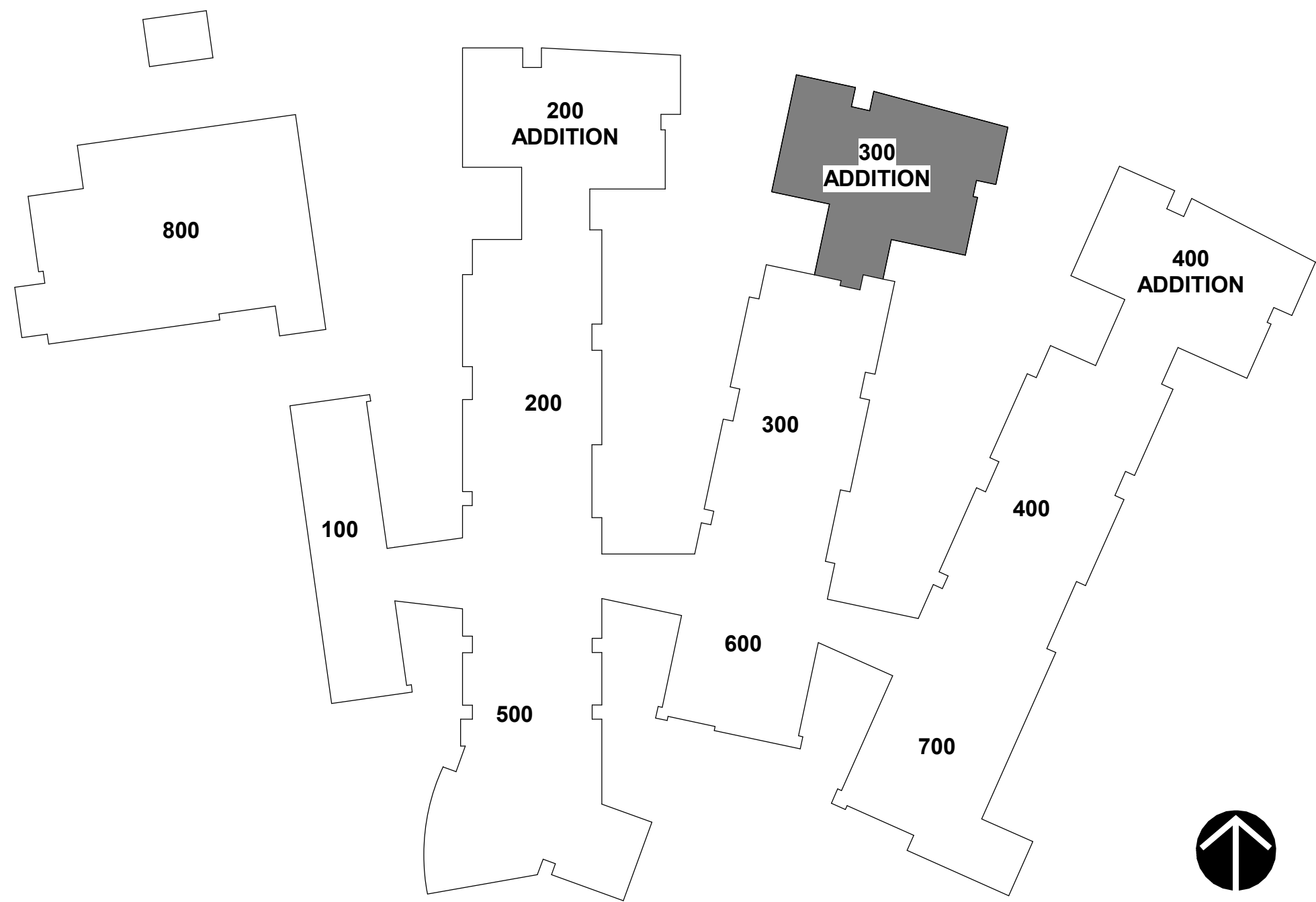
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1 SPECIAL SYSTEMS PLAN - 300 Wing Addition
0 2 4 6 8 10
1/8" = 1'-0"



WALL RATINGS LEGEND	
	SMOKE PARTITION
	1 HR RATED WALL

GENERAL NOTES:

- A. REFER TO ELECTRICAL LEAD SHEET E0-00 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
- B. ALL NETWORK WIRING SHALL BE PLENUM RATED.
- C. ANY NETWORK WIRING SUPPORTED FROM J-HOOKS SHALL BE SUPPORTED AT MAXIMUM 36" APART.
- D. ALL FINAL CAMERA LOCATIONS SHALL BE COORDINATED WITH CCSS IT DEPARTMENT PRIOR TO ANY ROUGH-IN.

KEYNOTES:

1. (1)-2" CONDUIT SLEEVE WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.
2. (2)-3" CONDUIT SLEEVES WITH INSULATED BUSHINGS ON BOTH ENDS. LOCATE ABOVE ACCESSIBLE LAY-IN CEILING.

CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION

200 Sermons Blvd,
Havelock, NC 28532

2	06/30/2025	ADDENDUM 2
1	05/23/2025	ADDENDUM 1
ID	DATE	DESCRIPTION

DRAWN BY: TMC
CHECKED BY: JTB
300 WING ADDITION
- SPECIAL SYSTEM
PLAN

2024004 07 MAY 2025

E3-02

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SMOKE PARTITION

1 HR RATED WALL

- A. ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- B. SMOKE DETECTORS LOCATED AT MAGNETIC DOOR OPENERS SHALL BE CENTERED AT DOORWAY AT NO GREATER THAN 5' FROM DOOR OPENING.
- C. LOCATIONS OF NOTIFICATION APPLIANCE CABINETS (NAC) AND AMPLIFIER CABINETS SHALL BE COORDINATED CLOSELY FOR PROPER CLEARANCES AND ACCESSIBILITY.
- D. ALL 120VAC POWER FOR NAC PANELS AND AMPLIFIER CABINETS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE NEAREST AVAILABLE 120/208 VOLTS PANEL. BREAKERS FOR THOSE CIRCUITS SHALL HAVE RED BREAKER LOCKS.
- E. NEW SAMPLING TUBES SHALL BE PROVIDED AND INSTALLED WITH THE NEW DUCT DETECTORS.
- F. ONE COPY OF THE FIRE ALARM ZONE LAYOUT CHART SHALL BE MOUNTED UNDER GLASS (OR PLEXIGLASS) BESIDE THE FIRE ALARM PANEL (FACP) AND REMOTE FIRE ALARM PANEL (RACP).
- G. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE OWNER FOR EXACT ROOM NUMBER ASSIGNMENTS PRIOR TO LABELING PANEL SCHEDULES OR PROGRAMMING FIRE ALARM SYSTEM. THIS SHALL BE VERIFIED IN FRONT WITH OWNER TO AVOID PROBLEMS OR INCONSISTENCIES LATER.
- H. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY CONDUIT, BOXES SLEEVES, ETC. FOR A COMPLETE SYSTEM.
- I. ALL FIRE ALARM WORK SHALL BE CLOSELY COORDINATED WITH THE FIRE ARRESTOR CONTRACTOR, SCHOOLS (CCS) AND THE LOCAL FIRE MARSHALL (AHH).
- J. UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL PANELS ARE SHOWN FOR REFERENCE ONLY (SCS AND REMAIN (ETR).
- K. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WAS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
- L. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL WHILE THE NEW SYSTEM IS BEING INSTALLED. AT ANY TIME THE BUILDING IS OCCUPIED THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL. IF FOR ANY REASON THE EXISTING SYSTEM IS REQUIRED TO BE TAKEN OFFLINE THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER AND AHH. IT IS RECOMMENDED TO BE TAKEN OFFLINE AT THOSE TIMES WHEN THE BUILDING IS NOT OCCUPIED.

1. DUCT DETECTOR AND SAMPLING TUBE. PROVIDED BY ELECTRICAL. INSTALLED BY MECHANICAL.
2. PROVIDE DUCT DETECTOR SHUTDOWN RELAY AND REMOTE ALARM INDICATOR FOR ASSOCIATED AHU UNIT. LABEL PER SPECIFICATIONS.
3. PROVIDE CARBON MONOXIDE DETECTOR. CONNECT TO THE FIRE ALARM SYSTEM SO AS TO PROVIDE AN ALARM SIGNAL UPON ACTIVATION TO AN ON-SITE LOCATION STAFFED BY SCHOOL PERSONNEL.
4. COORDINATE MOUNTING OF FIRE ALARM PULL STATION ON WINDOW MULLION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.

fo@smithsinnett.com

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PROJECT# 24017



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	05/30/2025	ADDENDUM 2
0	DATE	DESCRIPTION

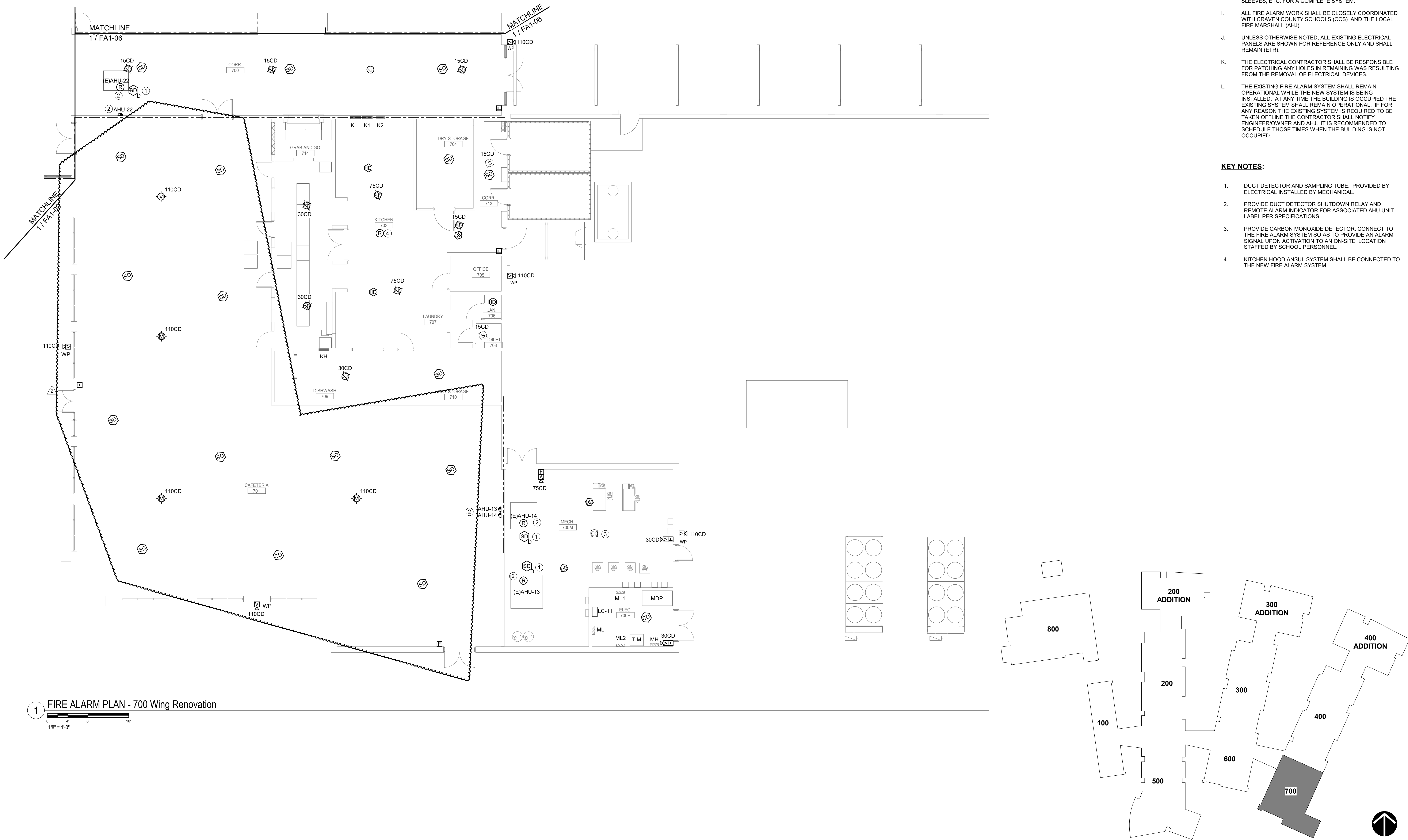
00 WING RENOVATION - FIRE ALARM PLAN

24004 07 MAY 2025

≡A1-01



Altodesk Docs/Tucker Creek Middle School Addition/24017 Tucker Creek MS Addition, Central MEP_R24.rvt
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1 FIRE ALARM PLAN - 700 Wing Renovation

1/8" = 1'-0"

WALL RATINGS LEGEND

SMOKE PARTITION
1 HR RATED WALL

GENERAL NOTES:

- ALL FIRE ALARM WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- SMOKE DETECTORS LOCATED AT MAGNETIC DOOR OPENERS SHALL BE CENTERED AT DOORWAY AT NO GREATER THAN 5'-0" FROM DOOR OPENING.
- LOCATIONS OF NOTIFICATION APPLIANCE CABINETS (NAC) AND AMPLIFIER CABINETS (AMP) SHALL BE COORDINATED CLOSELY FOR PROPER CLEARANCES AND ACCESSIBILITY.
- ALL 120VAC POWER FOR NAC PANELS AND AMPLIFIER CABINETS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FROM THE NEAREST AVAILABLE 120/208 VOLT PANEL. BREAKERS FOR THOSE CIRCUITS SHALL HAVE RED BREAKER LOCKS.
- NEW SAMPLING TUBES SHALL BE PROVIDED AND INSTALLED WITH THE NEW DUCT DETECTORS.
- ONE COPY OF THE FIRE ALARM ZONE LAYOUT CHART SHALL BE MOUNTED UNDER GLASS (OR PLEXGLASS) BESIDE THE FIRE ALARM PANEL (FACP) AND REMOTE FIRE ALARM PANEL (RACP).
- THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE OWNER FOR EXACT ROOM NUMBER ASSIGNMENTS PRIOR TO LABELING PANEL, SCHEDULES OR PROGRAMMING FIRE ALARM SYSTEM. THIS SHALL BE VERIFIED UP FRONT WITH OWNER TO ALLEVIATE PROBLEMS OR INCONSISTENCIES LATER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY CONDUIT, BOXES SLEEVES, ETC. FOR A COMPLETE SYSTEM.
- ALL FIRE ALARM WORK SHALL BE CLOSELY COORDINATED WITH CRAVEN COUNTY SCHOOLS (CCS) AND THE LOCAL FIRE MARSHALL (AHJ).
- UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL PANELS ARE SHOWN FOR REFERENCE ONLY AND SHALL REMAIN (ETC).
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WAS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL WHILE THE NEW SYSTEM IS BEING INSTALLED. AT ANY TIME THE BUILDING IS OCCUPIED THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL. IF FOR ANY REASON THE EXISTING SYSTEM IS REQUIRED TO BE TAKEN OFFLINE THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER AND AHJ. IT IS RECOMMENDED TO SCHEDULE THOSE TIMES WHEN THE BUILDING IS NOT OCCUPIED.

KEY NOTES:

- DUCT DETECTOR AND SAMPLING TUBE. PROVIDED BY ELECTRICAL INSTALLED BY MECHANICAL.
- PROVIDE DUCT DETECTOR SHUTDOWN RELAY AND REMOTE ALARM INDICATOR FOR ASSOCIATED AHU UNIT. LABEL PER SPECIFICATIONS.
- PROVIDE CARBON MONOXIDE DETECTOR. CONNECT TO THE FIRE ALARM SYSTEM SO AS TO PROVIDE AN ALARM SIGNAL UPON ACTIVATION TO AN ON-SITE LOCATION STAFFED BY SCHOOL PERSONNEL.
- KITCHEN HOOD ANSUL SYSTEM SHALL BE CONNECTED TO THE NEW FIRE ALARM SYSTEM.

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CRAVEN COUNTY SCHOOLS
UNIFIED MIDDLE SCHOOL OF HAVELOCK ADDITION

200 Sermons Blvd,
Havelock, NC 28532

2	05/30/2025	ADDENDUM 2	
ID	DATE	DESCRIPTION	

DRAWN BY: TMC
CHECKED BY: JTB

700 WING
RENOVATION - FIRE
ALARM PLAN

2024004

07 MAY 2025

FA1-10

Unified Middle School of Havelock Addition

Pre-Bid RFI

smith

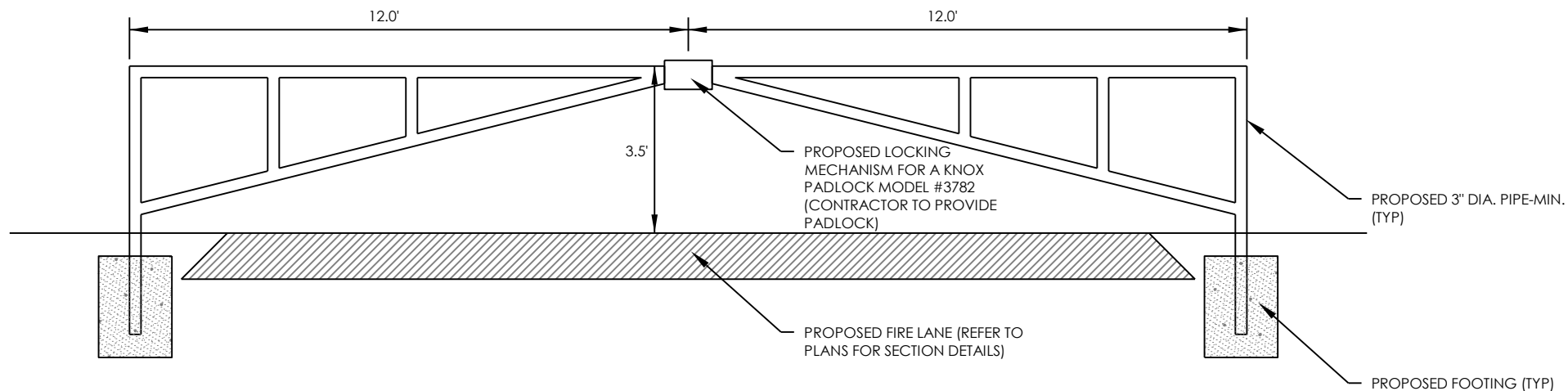
sinnett

ARCHITECTURE

RFI	Date Received	Submitted By	Assigned To	Response	Associated Revision	Issued
1 Specifications are unclear on the responsibility for the Independent testing agency. Please confirm that the independent agency will be hired and paid by the owner.	5/23/2025	JM Thompson	Arch	Yes, special inspections will be hired and paid by the owner.	-	ADD 1 5/23/2025
2 Sheet C-310 note which calls out for 6' wide sidewalk to be part of alt#2 appears to be in error, sidewalk should be part of base bid. Please clarify	5/23/2025	JM Thompson	Civil	The referenced sidewalk is part of Alternate #2. An exhibit has been provided with this response for clarification.	-	ADD 1 5/23/2025
3 Doors 331B & 420A indicate aluminum door in hollow-metal frames per the door schedule. Please confirm the intent for these units.	5/23/2025	JM Thompson	Arch	Intent is for aluminum door in aluminum frame.	-	ADD 1 5/23/2025
4 Sheet A9-02 Keynote 4, calls out a metal roof system, the elevations seem to indicate a shingle roof system. Multiple details on A9-03 indicate a shingle roof system. Please clarify.	5/23/2025	JM Thompson	Arch	Shingle roof system is design intent, metal roofing is incorrect.	-	ADD 1 5/23/2025
5 PE Storage Bldg, architectural drawings and notes on S9-02 indicate a cold-formed metal truss roof system, however, the cuts 14 & 15/S2.01 indicate a bar joist roof system. Please clarify the design intent.	5/23/2025	JM Thompson	Structural	Design intent is bar joists, notation on sheet S9-02 changed to be more clear.	S9-02	ADD 2 5/30/2025
6 Sunshade detail 5/A5-11 indicates a mixture of galvanized steel, steel, and aluminum. Please confirm the composition of the components of the sunshades. We also ask that you confirm the AESS Level 3 requirements.	5/23/2025	JM Thompson	Arch	All components shall be galvanized steel. Refer to Steel Tube Institute standards for AESS, as is found here: https://steeltubeinstitute.org/resources/architecturally-exposed-hollow-structural-sections/	A5-11	ADD 1 5/23/2025
7 Details 6 & 7/A5-01 indicate reinforced sidewalks, please clarify which sidewalk this detail refers to, as this does not appear in the civil sidewalk details.	5/23/2025	JM Thompson	Arch / Civil	Refer to the sidewalk and pavement details on the civil plans for site sidewalks and pavements. Details 6 and 7 will be removed from Architectural sheets.	A5-01	ADD 2 5/30/2025
8 Alternate 1 "New Bus Canopy" please confirm that the new island and sidewalks will be included as part of the base bid and only the canopy structure and foundations are added in alternate 1.	5/23/2025	JM Thompson	Civil	The new islands and sidewalk are included in the base bid.	-	ADD 1 5/23/2025
9 Specification 013200; please confirm that the contractor will be required to submit and maintain a fully "Cost Loaded" progress schedule.	5/23/2025	JM Thompson	Arch	Yes.	-	ADD 1 5/23/2025
10 G1-01, please confirm that temporary egress tunnels are for emergency use only. Please define how far the tunnels should extend beyond the footprint or the additions.	5/23/2025	JM Thompson	Arch	Temporary egress tunnels are for emergency use only. Egress tunnels shall extend to the far side of the proposed fire lane.	-	ADD 2 5/30/2025
11 Renovation of the existing buildings calls for significant removal and installation of existing ceiling tiles with the replacement of any damaged tiles. What constitutes damage which will require replacement? Will an inspection be performed before work begins and all damaged existing tiles be replaced prior to our scope of work? Will color and style variations from the original tile and replacement tiles be accepted? This item seems to be extremely subjective and we suggest establishing an allowance for tile replacement.	5/23/2025	JM Thompson	Arch	GC shall document existing conditions prior to start of work to identify previously damaged tiles and issue as a report to Architect and Owner. GC is only responsible for replacing tiles damaged in the course of their scope of work. After scope of work is complete, Owner will replace previously damaged tiles as identified in existing conditions report. Inspection will be performed before and after GC scope of work. Replacement tiles shall match existing.	-	ADD 2 5/30/2025
12 Are there schedule restraints for working within the existing school?	5/23/2025	JM Thompson	Arch	This will be addressed with the owner at the pre-bid meeting.	-	ADD 1 5/23/2025
13 Please confirm that we are to maintain a current criminal background investigation (CBI) for all personnel who will be onsite.	5/23/2025	JM Thompson	Arch	Yes, adhere to the Jessica Lunsford Act requirements as described in the specs. Form is provided with new General Conditions in Addendum 1	Spec Section 007200	ADD 1 5/23/2025
14 Does the Davis-Bacon Act apply to this contract? Will certified payrolls be required?	5/23/2025	JM Thompson	Arch	No.	-	ADD 1 5/23/2025
15 Will retainage be held on this project and if so at what rate?	5/23/2025	JM Thompson	Arch	Retainage paragraph was omitted in error, specs will be revised.	Spec Section 007300	ADD 1 5/23/2025
16 Are sales tax reports required to be submitted to the owner?	5/23/2025	JM Thompson	Arch	Yes.	-	ADD 1 5/23/2025
17 Spec section 114000 - Food Service Equipment is missing from bid documents, please provide.	5/23/2025	JM Thompson	Arch	This spec section does not pertain to the project but was left on the table of contents in error. Disregard.	-	ADD 1 5/23/2025

18	Structural Drawings doing not call for AESS Level 3, as specified on the architectural drawings (details 1/A1-30 & 5/A5-11 vs 13/S2-00 for example). This could be a significant cost difference and most of the steel fabricators will reference the structural documents only. We request this discrepancy in the documents be clarified.	5/23/2025	JM Thompson	Structural	Additional notes added to sheets S0-01, S2-00 and S2-01 for clarification.	S0-01 S2-00 S2-01	ADD 2 5/30/2025
19	Sheet C-902 has two separate design details for the firelane paving to be performed under alternate 3. Please clarify which detail is to be followed as part of alternate 3.	5/23/2025	JM Thompson	Civil	The pavement section named "Typical Fire Access Road Section (Alternate #3)" is the final pavement section under Alternate #3. The pavement section named "Typical Construction Fire Access Road Section (Alternate #3)" is the Alternate #3 pavement section that will be used during construction. Under Alternate #3, the contractor will be responsible for removing the excess stone prior to converting to the final pavement section.	-	ADD 1 5/23/2025
20	Note on sheet C-902 states that paving details are provided for reference only and that the contractor is to refer to the geotechnical engineers report for the minimum pavement section designs. We suggest that the civil designer is much more appropriate for evaluating the engineers report and providing the contractors with the proper design. Please advise;	5/23/2025	JM Thompson	Civil	The referenced note will be removed. The pavement sections provided have been shown based on the recommendations of the geotechnical engineer.	-	ADD 1 5/23/2025
21	Please provide detail information on the gates and Knox box to be provided at each end of the firelane. We assume a pipe gate of some configuration. Please advise.	5/23/2025	JM Thompson	Civil	A gate detail has been provided with this addendum. The detail includes information on the Knox padlock that is to be provided by the contractor.	-	ADD 2 5/30/2025
22	Manual roller shades are spec'd. A1-11, note 9, refers to the window shades as blinds. A-700, note 1, calls out manual roller shades. A5-12/2 states provide motorized roller shades.	5/27/2025	Atlantic FESP	Arch	Both Manual and Motorized shades are needed on the project. Basis of Design for Motorized is Crestron Electronics with Draper, MechoShades, and Hunter Douglas as acceptable manufacturers. A1-11 Note 9 is a boilerplate note and was not updated to match design intent. Disregard in its entirety. A-700 note 1 is correct, manual roller shades are TYP in classrooms. A5-12 Detail 2 was cut on A4-15 and refers to the Gymnasium only.	Spec Section 122413	ADD 2 5/30/2025
23	Confirming science classroom sinks/faucets (S1, S2A, S2B) are provided by others while the dilution tanks are provided by the plumbers.	5/30/2025	JL Cayton	Arch	Science sinks are integral to the countertop and provided with the countertop. Faucets and dilution tanks are provided by the plumbers.	-	ADD 1 5/23/2025
24	Sheet S9-03 appears to be titled incorrectly, should this reflect "Alt 4 - Walk-in Freezer and Cooler"	5/30/2025	JM Thompson	Structural	This was a typo, this sheet pertains to Alt 4.	-	ADD 2 5/30/2025
25	Please confirm if Walk-in Coolers in Alternate 4 are provided by owner or GC. If provided by GC, please provide a specification or product sheet.	5/30/2025	JM Thompson	Arch			
26	Lab casework seems to be in conflict between plans and specifications; plastic laminate per the drawings and wood veneer in the specs. Please clarify. If the lab casework is to be plastic laminate, which spec would govern the laminate casework? There is laminate casework mentioned in div. 6 and div. 12. The laminate casework is called to be plywood core in the drawings but particleboard core in the specs. Please clarify which to use.	5/30/2025	JM Thompson	Arch			
27	Superior Mason Products is one of the approved vendors for the walkway covers, however, they have several issues with the specifications. 1- Mason's employs a 6x3x.078 decking in lieu of the 6x3.5x.087 specified 2- Mason supplies Class II clear anodized finish in lieu of the Class 1 specified, 3- Mason's is unable to achieve the 16' column span they indicate an 8' span maximum, 4- Mason's provides mechanical bents in lieu of the welded specified Will Mason's be approved for this project with the noted deviations from the specifications?	5/30/2025	JM Thompson	Arch			
28	Sheet P 3-02 indicates for a gasline and a 3/4" waterline be provided for the PE Storage building. Should the cost associated with this work be included in the cost for Alternates #2 or included within the base bid?	5/30/2025	JM Thompson	Plumbing	This will be associated with Alternate #2.	-	ADD 2 5/30/2025
29	Alternate #9 is for the additional cost to provide new BDA for the existing building. Allowance #12 is a \$50,000 lumpsum allowance for BDA. We are assuming the allowance only pertains to the BDA for additions only. Please clarify.	5/30/2025	JM Thompson	Arch	Allowance 12 applies only to the BDA system in the new classroom additions, if required. Alternate 9 applies only to the BDA system added to the existing building. It is the Architect's understanding from DOI that the BDA can only be mandated in the new classroom additions but, if it is required, Owner would like the option to provide coverage for the entire building.	-	ADD 2 5/30/2025

30	Please confirm that all fire alarm cabling within the existing school can be installed with plenum rated cabling and that we will not need to run all new conduit throughout the existing facility.	5/30/2025	JM Thompson	Arch			



NOTES:

1. THIS DETAIL IS PROVIDED FOR REFERENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SUBMITTAL FOR THE PROPOSED GATE THAT MEETS THE REQUIREMENTS PROVIDED IN THIS DETAIL.
2. REFER TO PLAN FOR LOCATION OF GATES.
3. GATES SHALL BE CONSTRUCTED OF MINIMUM 3" DIAMETER STEEL PIPING. ALL STEEL SHALL BE ASTM A36 STEEL.
4. CONTRACTOR SHALL PAINT THE GATES A COLOR OF THE OWNER'S CHOOSING (MIN. 2 COATS).
5. FOOTINGS FOR GATES POSTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.

FIRE LANE ACCESS GATE DETAIL

(NOT TO SCALE)

NEW HAVELOCK MIDDLE SCHOOL

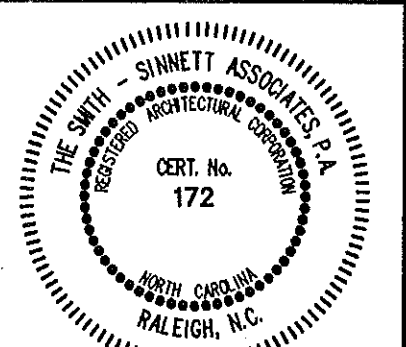
FOR CRAVEN COUNTY SCHOOL SYSTEM HAVELOCK, NORTH CAROLINA

THE SMITH SINNETT
ASSOCIATES, P.A.

Architects * Planners

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consultant

Project Manager: **John F. Sinnett, AIA**

Project Architect: **JFS**

Project Engineer: **CBL**

drawn by:

checked by:

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**RECORD
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6-8-98

no. description date

Revisions

**New Havelock
Middle School**

Craven County
North Carolina

project title

TITLE SHEET

sheet title

F9802.01

project no.

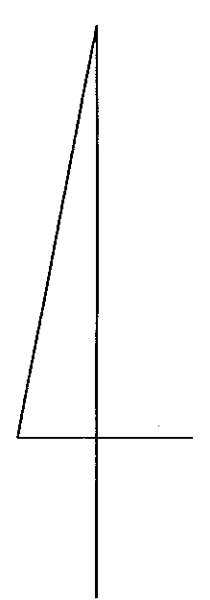
01/15/98

date


revision: 01/15/98

PROJECT DATA

NAME OF PROJECT: HAVELOCK MIDDLE SCHOOL ADDRESS: PEDRO BOULEVARD HAVELOCK, NORTH CAROLINA	FIRE RESISTANCE RATINGS ¹ REQUIRE ² DETAIL # % WALL ¹ DESIGN NUMBER FOR RATED ASSEMBLIES ³
PROPOSED USE: MIDDLE SCHOOL OWNER/CONTACT PERSON: DAVID CLIFTON CRAVEN COUNTY SCHOOLS PHONE # (919) 514-6300	PARTY/FIREWALLS: EXTERIOR BEARING WALLS: EXTERIOR NON-BEARING WALLS: INTERIOR WALLS: BEARING NON-BEARING: ROOF CEILING: BEAMS: COLUMNS: EMERGENCY LIGHTING AND EXIT SIGNS FIRE ALARM AND SMOKE DETECTION SYSTEMS PANIC HARDWARE
DESIGNER OF RECORD: DESIGNER: FIRM NAME / LICENSE # TELEPHONE	FOR RATED TEST# ⁵ ASSEMBLY UL # U905, U906, NCBC 3103.1 UL # U902, U904, NCBC 3103.1 UL # P225 AND/OR P263 UL # P225 AND/OR P263 NCBC TABLE 3103.5
ARCHITECTURAL: SMITH SINNETT ASSOCIATES ELECTRICAL: PDC PLUMBING: PDC MECHANICAL: PDC STRUCTURAL: NEVILLE ENGINEERING SPRINKLER: NOT APPLICABLE FIRE ALARM: PDC CIVIL: PARKER & ASSOCIATES, INC.	ROOF CEILING: BEAMS: COLUMNS: EMERGENCY LIGHTING AND EXIT SIGNS FIRE ALARM AND SMOKE DETECTION SYSTEMS PANIC HARDWARE EXIT REQUIREMENTS DEAD END LIMIT-MAXIMUM CONDITION 20 FT TRAVEL DISTANCE TO EXIT-MAXIMUM CONDITION 200 FT NUMBER EXITS / EXIT WIDTH MAIN BUILDING (CLASS ROOMS & ADMINISTRATION) OCCUPANCY TYPE TOTAL SQUARE FOOTAGE SQUARE FOOTAGE PER OCCUPANT TOTAL OCCUPANTS = 110,747 SF / 20 SF PER OCC. = 5,537 OCC EXIT WIDTH REQUIRED = 2" PER OCC x 5,537 OCC = 1,107 1/2" = 92 FT EXIT WIDTH PROVIDED = 40 DOORS x 2.5' PER DOOR = 100 FT NOTE: CLASSROOMS AND SMALL ASSEMBLY AREAS HAVE SEPARATE EXIT DOORS IN ADDITION TO ABOVE EXIT DOORS.
BUILDING DATA: (SEE NOTE 3 TO PLAN EXAMINER) OCCUPANCY: <input checked="" type="checkbox"/> ASSEMBLY <input type="checkbox"/> BUSINESS <input type="checkbox"/> EDUCATIONAL <input type="checkbox"/> MERCANTILE <input type="checkbox"/> HAZARDOUS <input type="checkbox"/> FACTORY-INDUSTRIAL <input type="checkbox"/> INSTITUTIONAL (unrestrained) <input type="checkbox"/> USE CONDITION: SMALL ASSEMBLY <input type="checkbox"/> INSTITUTIONAL (restrained) <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> STORAGE <input type="checkbox"/> LARGE ASSEMBLY AT GYMNASIUM	GYMNASIUM BUILDING (MAIN GYMNASIUM ONLY) OCCUPANCY TYPE TOTAL OCCUPANCY (MAXIMUM CONDITION IN GYM) BLEACHER SEATING GYM ACTIVITY SURFACE (8' 15" OCC. PER SF) 105 FT x 70 FT = 7,350 SF ; 7,350 SF / 15 OCC/SF = 490 OCC TOTAL OCCUPANT CONDITION EXIT WIDTH REQUIRED = 1,183 OCC x 2" PER OCC = 236 6/12" = 20 FT EXIT WIDTH PROVIDED = 10 DOORS x 2.5' PER DOOR = 25 FT FRONT LOBBY EXIT WIDTH REQUIRED (50 x 20') = 10 FT FRONT LOBBY EXIT WIDTH PROVIDED (4 PRS x 2.5' PER PR) = 10 FT OTHER EXITS PROVIDED (66 x 20') = 13 FT OTHER EXITS PROVIDED (6 PRS x 2.5' PER PR) = 15 FT NUMBER EXITS REQUIRED (PER NCBC 1103.2.2) = 4 NOTE: ABOVE AREAS DO NOT INCLUDE ANCILLARY SPACES (LOCKER ROOMS, ETC.) WHICH HAVE THEIR OWN EXTERIOR EXIT DOORS.
MIXED OCCUPANCY: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SEPARATION: SEE NOTE 3 TO PLAN EXAMINER CONSTRUCTION TYPE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> VI <input type="checkbox"/> VII <input type="checkbox"/> VIII <input type="checkbox"/> IX <input type="checkbox"/> X <input type="checkbox"/> XI <input type="checkbox"/> XII <input type="checkbox"/> XIII <input type="checkbox"/> XIV <input type="checkbox"/> XV <input type="checkbox"/> XVI <input type="checkbox"/> XVII <input type="checkbox"/> XVIII <input type="checkbox"/> XIX <input type="checkbox"/> XX <input type="checkbox"/> XXI <input type="checkbox"/> XXII <input type="checkbox"/> XXIII <input type="checkbox"/> XXIV <input type="checkbox"/> XXV <input type="checkbox"/> XXVI <input type="checkbox"/> XXVII <input type="checkbox"/> XXVIII <input type="checkbox"/> XXIX <input 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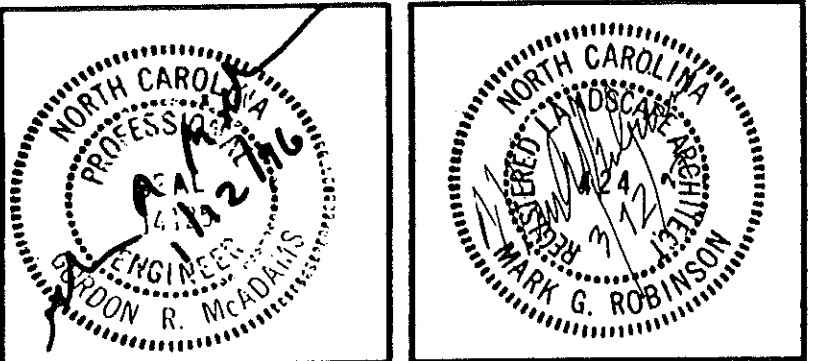
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PARKER & ASSOCIATES INC
 CONSULTING ENGINEERS LAND SURVEYORS LAND PLANNERS
 P. O. BOX 978 JACKSONVILLE NC 28541-0878

TOPO WORKSHEET			
HAVELOCK MIDDLE SCHOOL		FOR: CRAVEN COUNTY BOARD OF EDUCATION	
TOWNSHIP NO.6, CRAVEN CO., NORTH CAROLINA			
Parker & Associates, Inc. Consulting Engineers - Land Surveyors - Land Planners P.O. Box 976 - Jacksonville, North Carolina - 28541-0976 Phone (910) 456-2414 - Fax (910) 456-3441			
DATE 11-10-95		SHEET NO. 1 OF 1	
SCALE 1"=100'		DISK ACAD 272	
DRAWN ZLF		FILENAME HVLOCKMS	
DESIGNED		JOB NO. S951020-S1852	

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Mark Robinson & Associates
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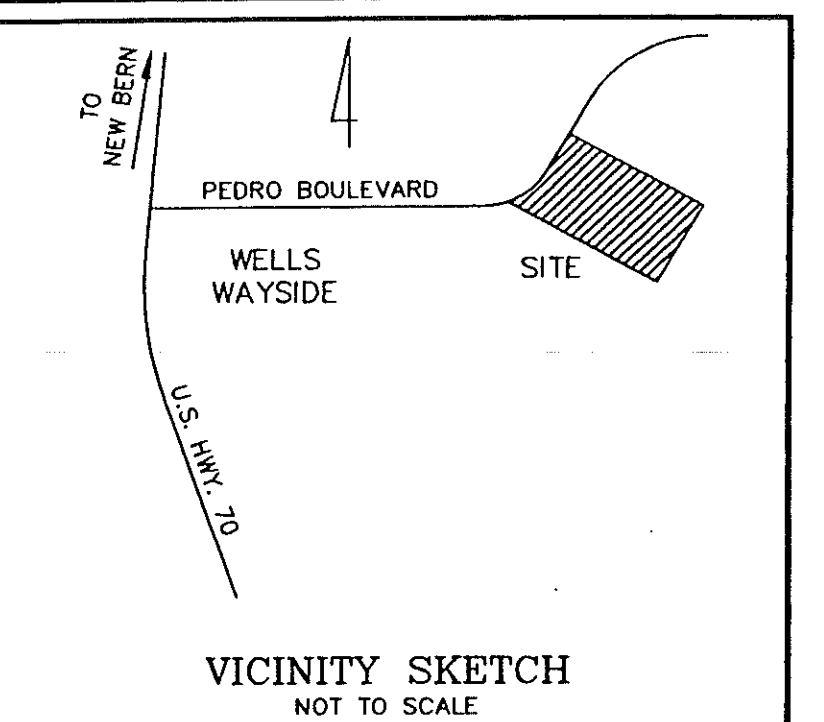


Parker & Associates, Inc.
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P.O. Box 978 - Jacksonville, North Carolina - 28541-0978
Phone (910) 455-8414 - Fax (910) 455-8441

Project Manager:
Project Architect:
Project Engineer: G.R. McADAMS
drawn by: L. L. FIVEASH
checked by:

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no.	description	date
Revisions		

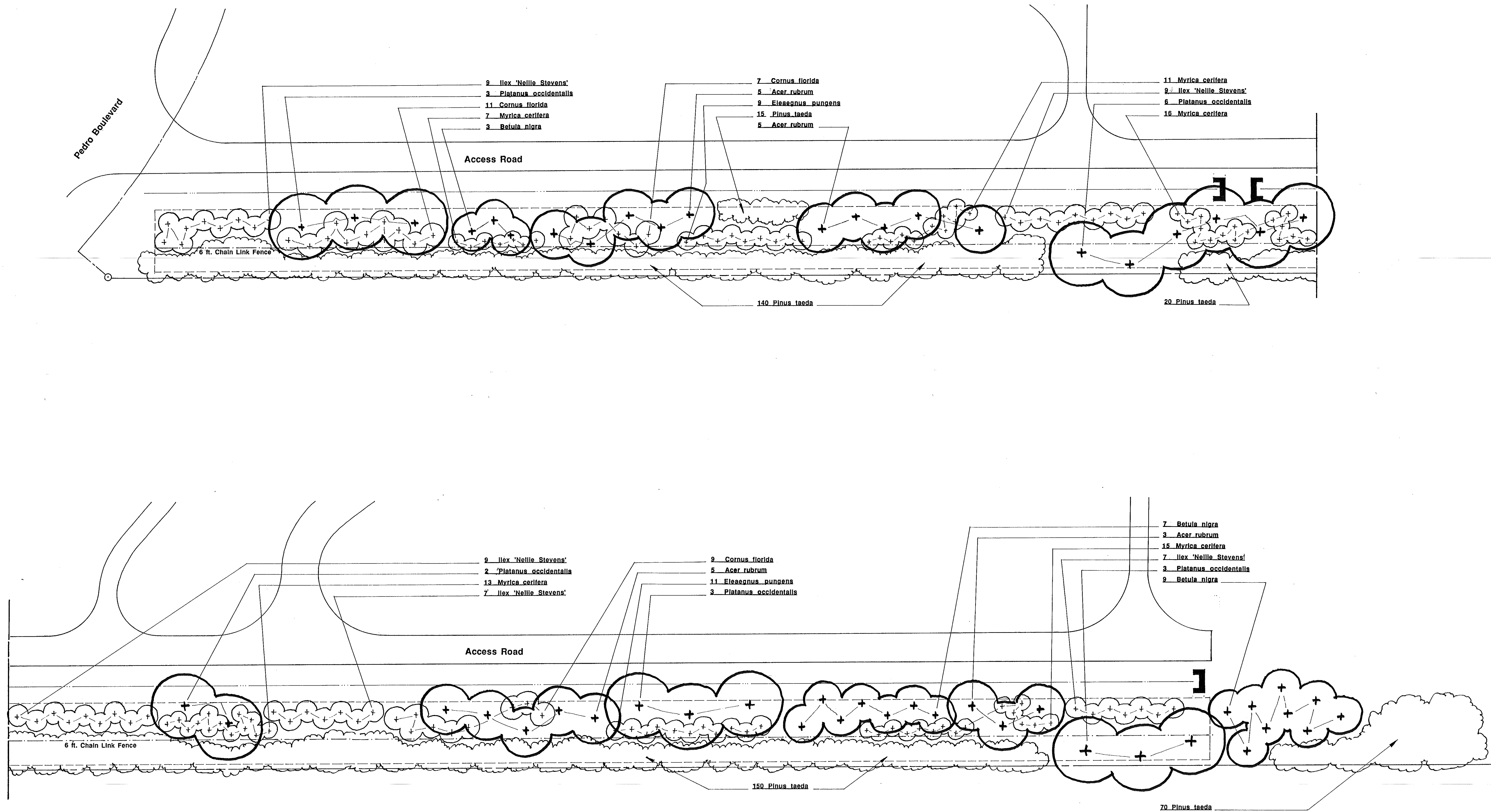


HAVELOCK MIDDLE SCHOOL

GRAVEN COUNTY SCHOOLS
GRAVEN COUNTY, NORTH CAROLINA

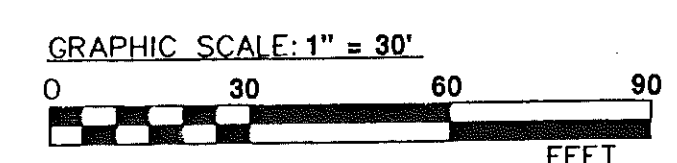
project title
12 March 1997
Buffer Planting
sheet title scale: 1" = 30'

9502.01 project no.	sheet no. of:
01/15/96 date	sheet no.



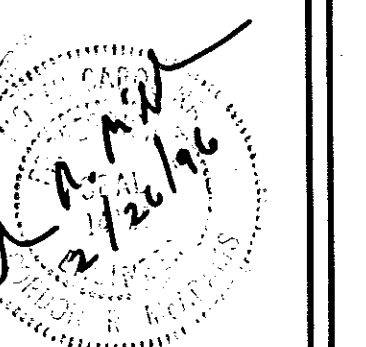
PLANT LIST

Quantity	Botanical Name	Common Name	Caliper	Height	Root	Spacing
Trees						
18	Acer rubrum	Red Maple	1 1/2-2"	8-10'	B&B	30' OC
19	Betula nigra	River Birch		6-8'	B&B	20' OC
27	Cornus florida	Dogwood		5-6'	10 gal.	15' OC
20	Eleagnus pungens	Eleagnus		3'	B&B	12' OC
41	Ilex 'Nellie Stevens'	Nellie Stevens Holly		4'	B&B	12' OC
62	Myrica cerifera	Wax Myrtle		4'	B&B	10' OC
395	Pinus taeda	Coastal Loblolly Pine		Seedling / 2nd generation		10' OC
17	Platanus occidentalis	Sycamore	2-2 1/2"	10-12'	B&B	35' OC



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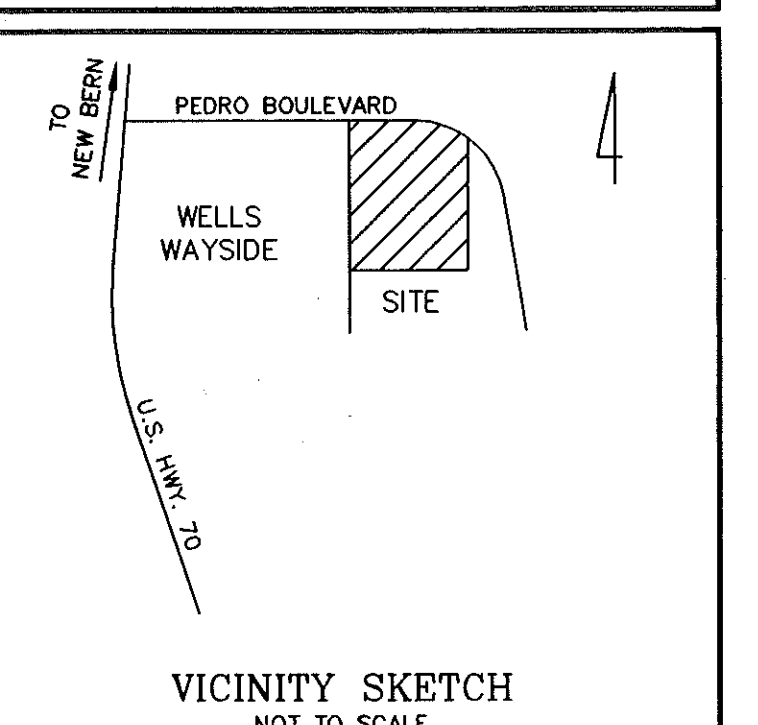
Project Manager:
Project Architect:
Project Engineer: G.R. McADAMS
drawn by: L. Fiveash
checked by:

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1 NORTH ROTATED, NEW POINT -
COORDINATE CHART PRINTED.

02-23-96
MHD

no. description date
Revisions



PRE-GRADING
HAVELOCK
MIDDLE SCHOOL

CRAVEN COUNTY SCHOOLS
CRAVEN COUNTY, NORTH CAROLINA
project title

PRE-GRADING & EROSION
CONTROL PLAN

sheet title scale: 1"=60'

9502
project no.

11/21/95
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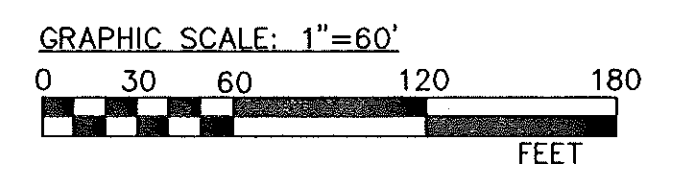
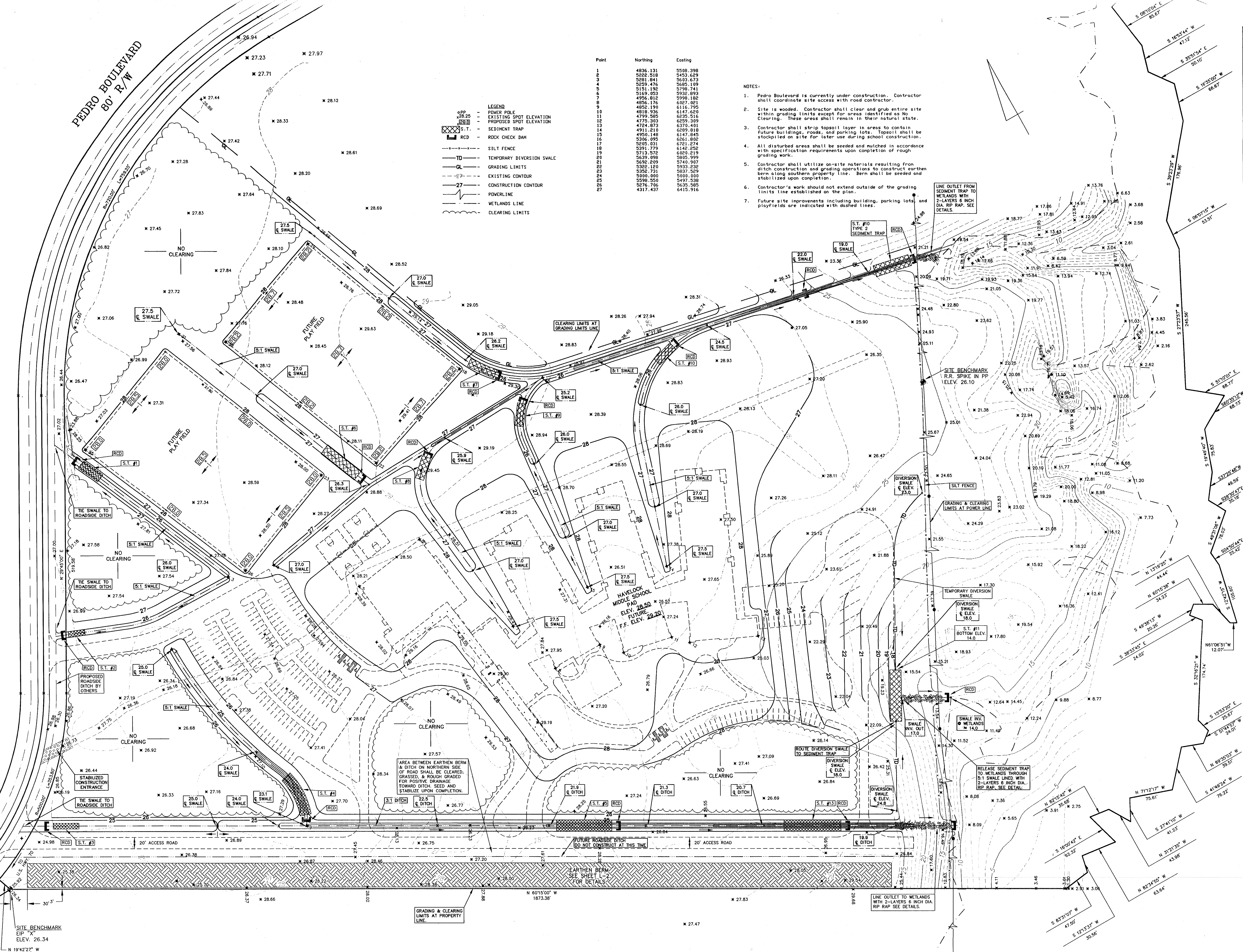
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4	5859.476	5685.109
5	5151.192	5798.741
6	5169.053	5932.893
7	4956.812	5998.182
8	4856.176	6027.021
9	4852.190	6116.795
10	4818.936	6147.620
11	4799.985	6225.516
12	4775.303	6259.309
13	4724.873	6370.401
14	4911.210	6599.818
15	4950.148	6147.845
16	5106.095	6361.802
17	5805.031	6721.274
18	5391.779	6142.252
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23	5382.721	5937.529
24	5000.000	5000.000
25	5598.550	5497.538
26	5076.786	5635.385
27	4317.437	6415.916

NOTES:

1. Pedro Boulevard is currently under construction. Contractor shall coordinate site access with road contractor.
2. Site is wooded. Contractor shall clear and grub entire site within grading limits except for areas identified as No Clearing. These areas shall remain in their natural state.
3. Contractor shall strip topsoil layer in areas to contain future buildings, roads, and parking lots. Topsoil shall be stockpiled on site for later use during school construction.
4. All disturbed areas shall be seeded and mulched in accordance with specification requirements upon completion of rough grading work.
5. Contractor shall utilize on-site materials resulting from ditch construction and grading operations to construct earthen berm along southern property line. Berm shall be seeded and stabilized upon completion.
6. Contractor's work should not extend outside of the grading limits line established on the plan.
7. Future site improvements including building, parking lots, and playfields are indicated with dashed lines.

LEGEND
PP - POWER POLE
X28.25 - EXISTING SPOT ELEVATION
[Symbol] - PROPOSED SPOT ELEVATION
[Symbol] - S.T. - SEDIMENT TRAP
[Symbol] - RCD - ROCK CHECK DAM
[Symbol] - SILT FENCE
[Symbol] - TD - TEMPORARY DIVERSION SWALE
[Symbol] - GL - GRADING LIMITS
[Symbol] - [Symbol] - EXISTING CONTOUR
[Symbol] - [Symbol] - CONSTRUCTION CONTOUR
[Symbol] - [Symbol] - POWERLINE
[Symbol] - [Symbol] - WETLANDS LINE
[Symbol] - [Symbol] - CLEARING LIMITS



FIELD BOOK CRAVEN CO. POS. 1-20
DISK NAME: ACAD 272 A
FILE NAME: EROSION.DWG
JOB NO: 095102-01853A 21P

PEDRO BOULEVARD
80' R/W

General Notes:

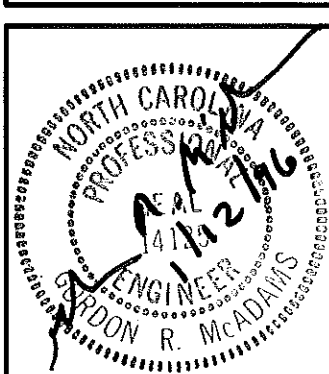
1. General Contractor will be required to execute Letter of Acceptance of pre-grading Contractor's work. See Specifications for additional requirements and discussion regarding coordination of work.
2. Contour lines within site area to be improved represent construction contours for pre-grading work.
3. Basketball court construction shall consist of 1 1/2 inch type 1-2 asphalt surface course and 6" coarse aggregate type base course over compacted subgrade. Surface markings shall be white and done in accordance with specification requirements.
4. All elevations along curb and gutter represent top of curb unless otherwise noted.
5. Areas identified as selective clearing shall be cleared of all underbrush and small trees less than 4 inches in diameter.
6. See Staking Plan Sheet L-4 for dimensioning and location of improvements.
7. Pedro Boulevard is currently under construction. Coordinate site access with Contractor constructing road.
8. The baseball playfield is to be constructed by the General Contractor. This work will include clearing, grubbing, grading, seeding and mulching as indicated on the plan.
9. No work will be allowed within the wetlands areas identified on the plan.
10. See Sheet L-5 for notes regarding Erosion and Sedimentation Control Requirements.

- ### LEGEND
- WS - WATER SERVICE
 - MH - MANHOLE
 - SS - SANITARY SEWER
 - CD - CLEAN OUT
 - RCF - REINFORCED CONCRETE PIPE
 - FES - FLANGED END SECTION
 - YICB - YARD INLET CATCH BASIN
 - CICB - CURB INLET CATCH BASIN
 - JB - JUNCTION BOX
 - CC - CONCRETE CHUTE
 - TC - TOP OF CURB
 - EDC - END OF CHUTE
 - FL - FLOW LINE
 - RCD - ROCK CHECK DAM
 - RIP RAP SCOUR PAD
 - ST - SEDIMENT TRAP
 - FH - FIRE HYDRANT
 - GV - GATE VALVE
 - DS - DOWN SPOUT - PIPED
 - DSB - DOWN SPOUT W/SPASH BACK
 - SD - PROPOSED SPOT ELEVATION
 - 57 - EXISTING CONTOUR
 - PAINTED TRAFFIC FLOW ARROWS
 - PAINTED HANDICAP SYMBOL
 - DRAINAGE FLOW ARROWS
 - PIPE DESIGNATION
 - SEE DRAINAGE PIPE CHART
 - GRADING LIMITS
 - WATER MAIN
 - SPILL CONC. CURB & GUTTER
 - WETLANDS LINE
 - PROPOSED CONSTRUCTION ITEMS
 - ITEMS ARE BOXED
 - PRE-GRADE SEDIMENT TRAP
 - PRE-GRADE ROCK CHECK DAM
 - PRE-GRADE RIP RAP

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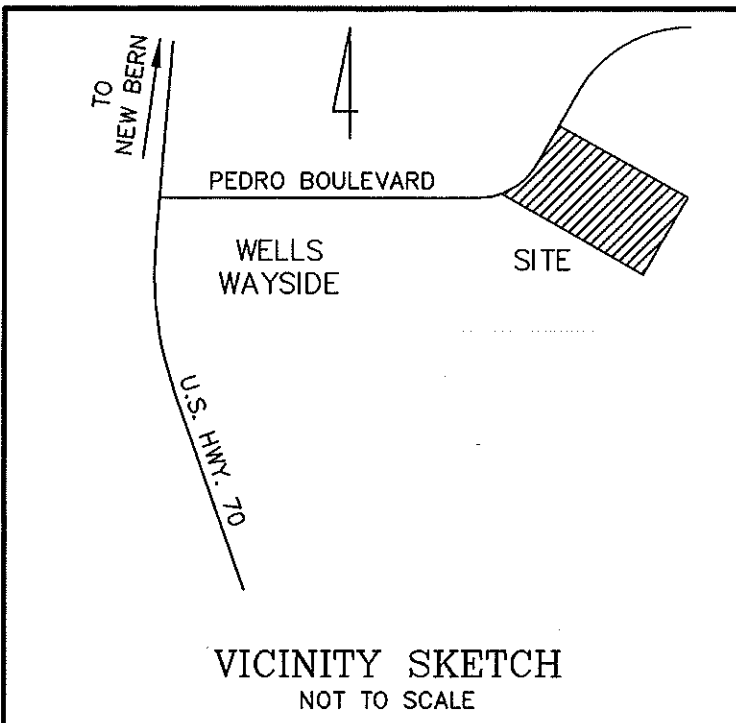
Consulting Engineers - Land Surveyors - Land Planners
P.O. Box 976 - Jacksonville, North Carolina - 28541-0976
Phone (910) 455-2411 - Fax (910) 455-3441



Project Manager:
Project Architect:
Project Engineer: G.R. McADAMS
drawn by: L. L. Fiveash
checked by:

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no.	description	date
Revisions		



HAVELOCK MIDDLE SCHOOL

GRAVEN COUNTY SCHOOLS
GRAVEN COUNTY, NORTH CAROLINA

project title

SITE PLAN

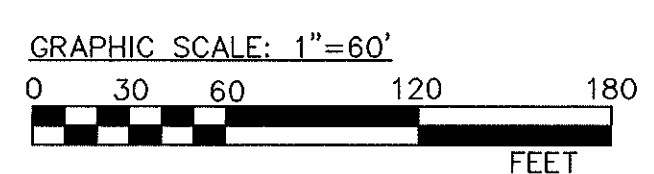
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project no.

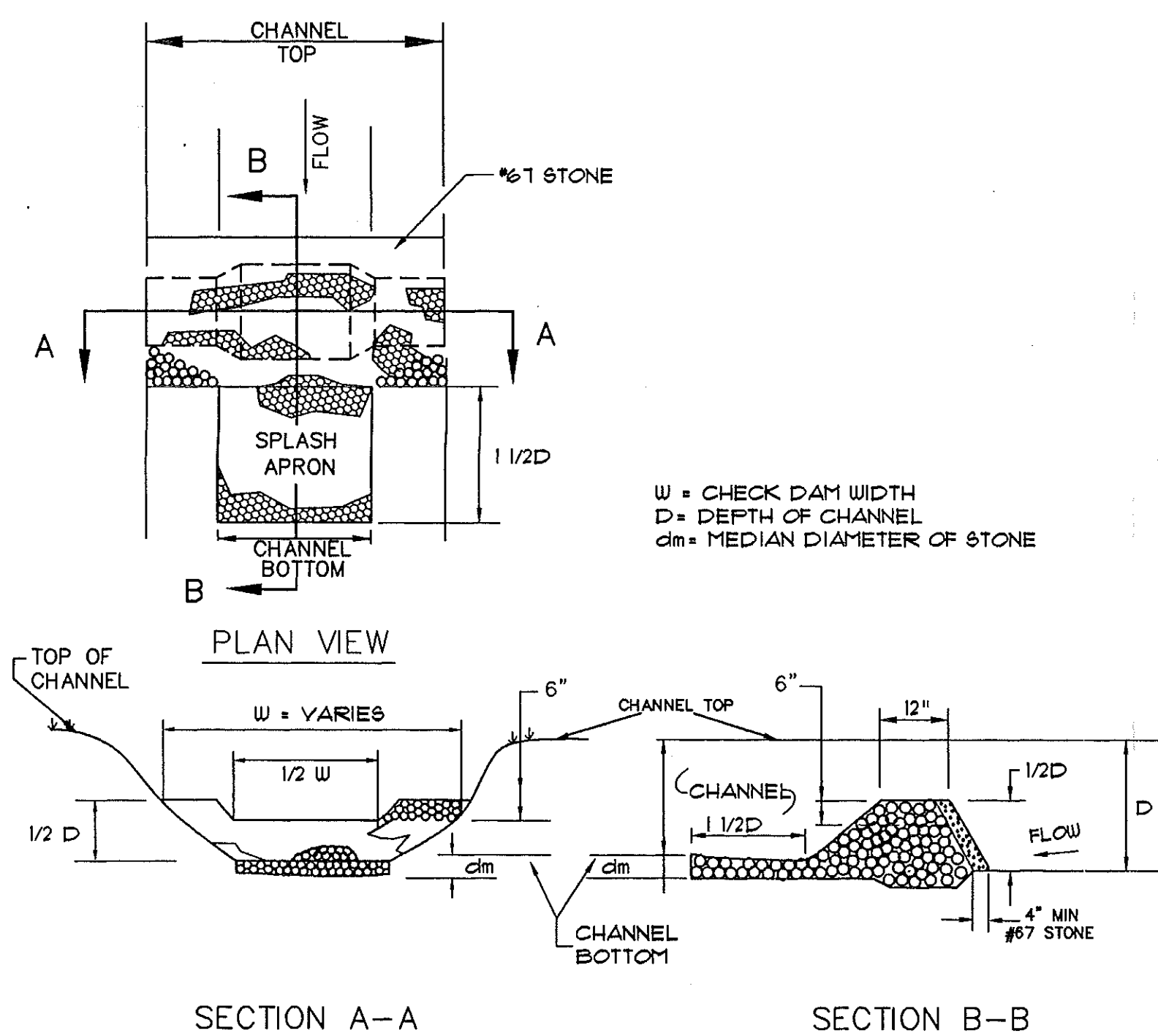
01/15/96
date

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sheet no. L-1

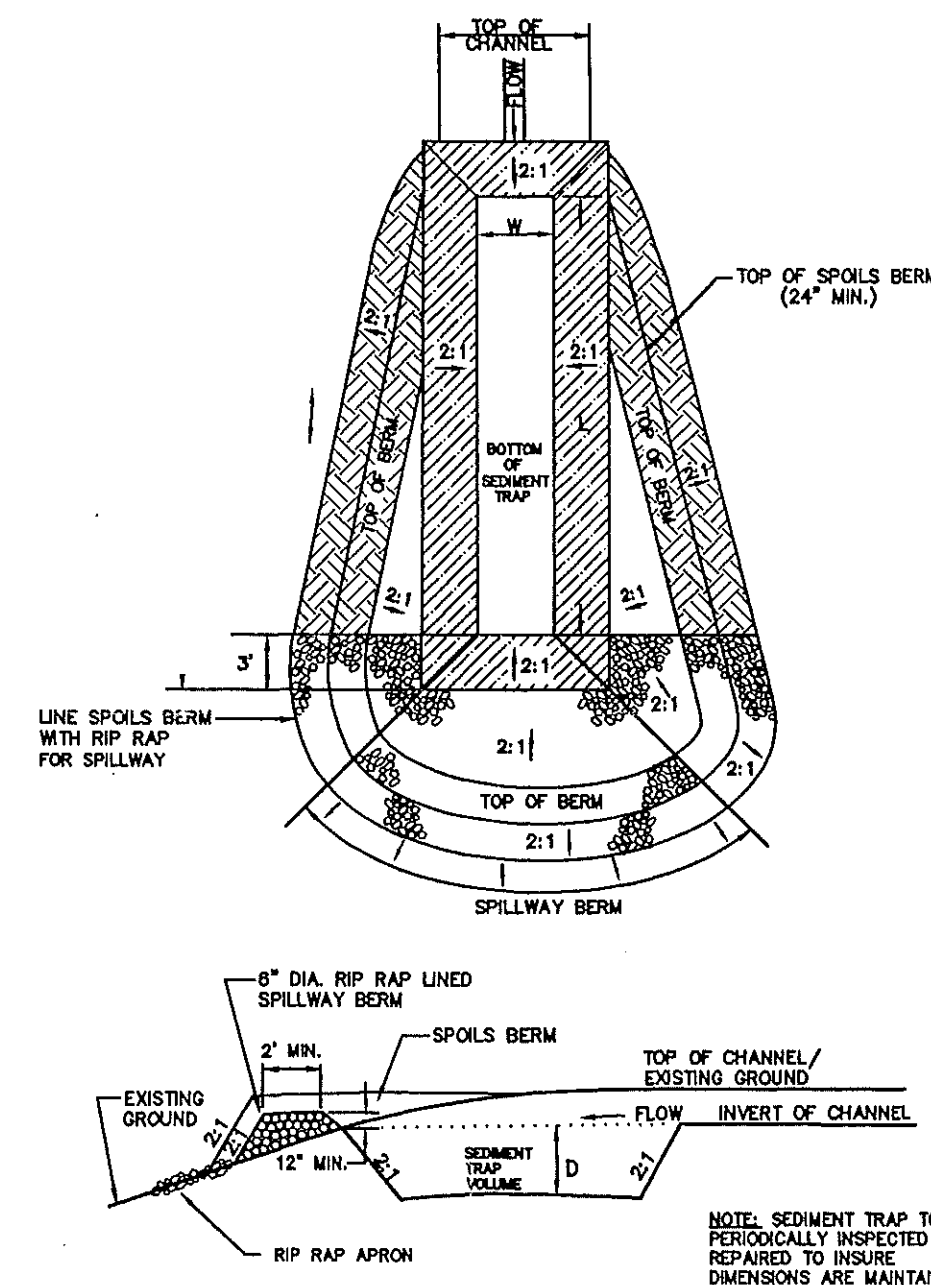


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BOOK NAME: AG-220
FILENAME: HML SITE.DWG
JOB NO.: 950200-01530



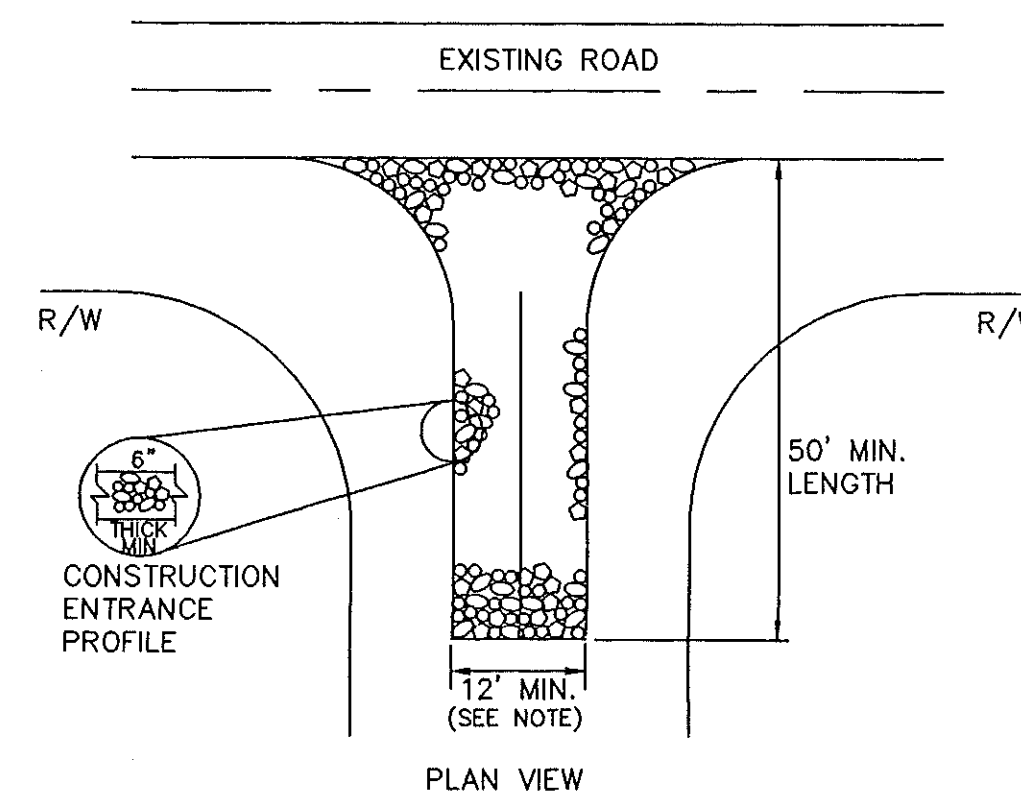
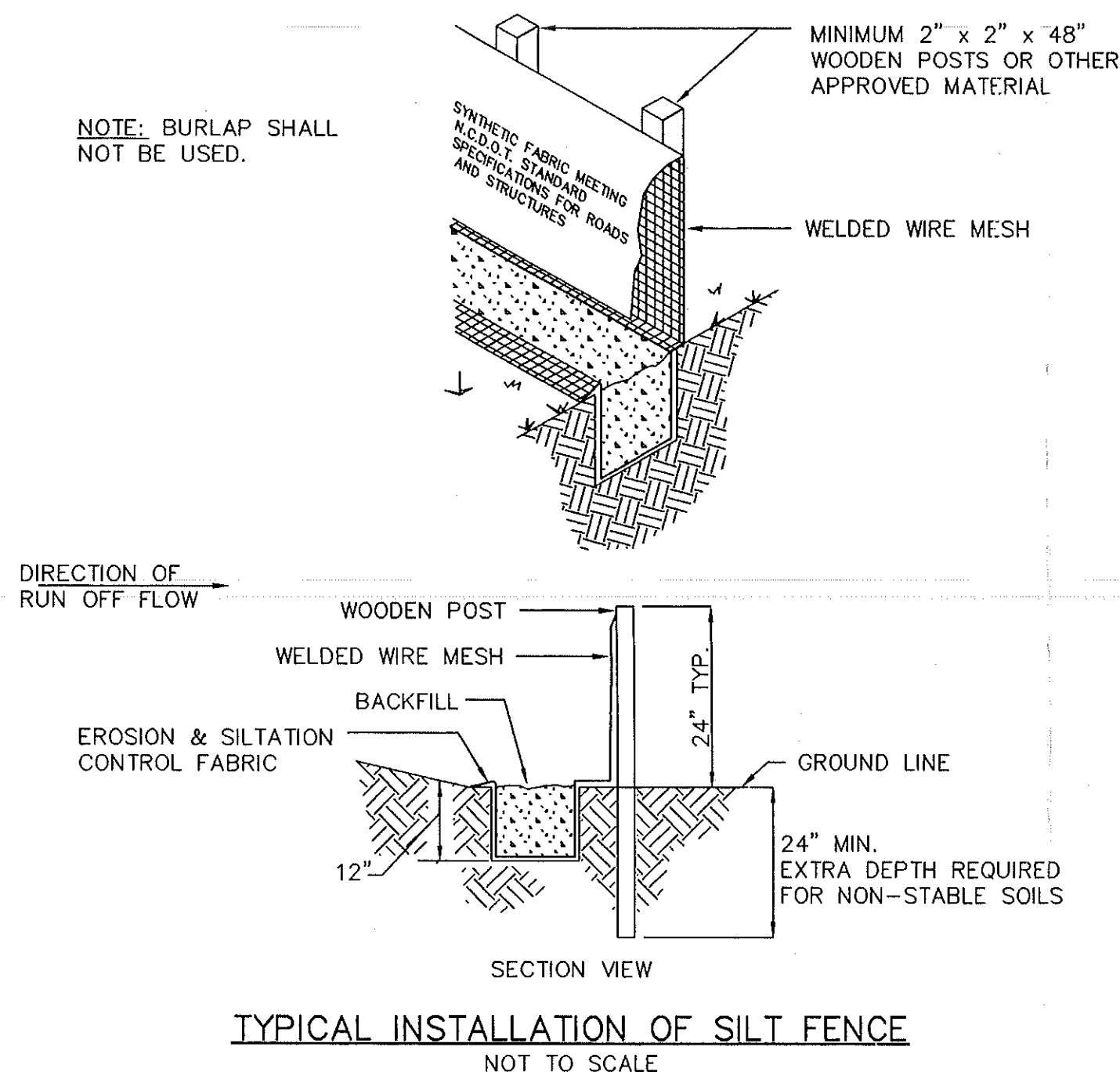
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FORTIFIED ROCK CHECK DAM
NOT TO SCALE



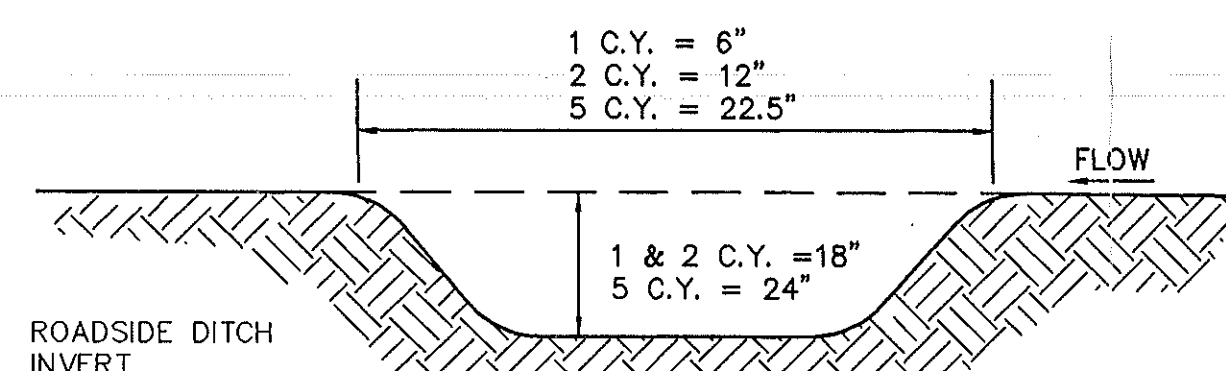
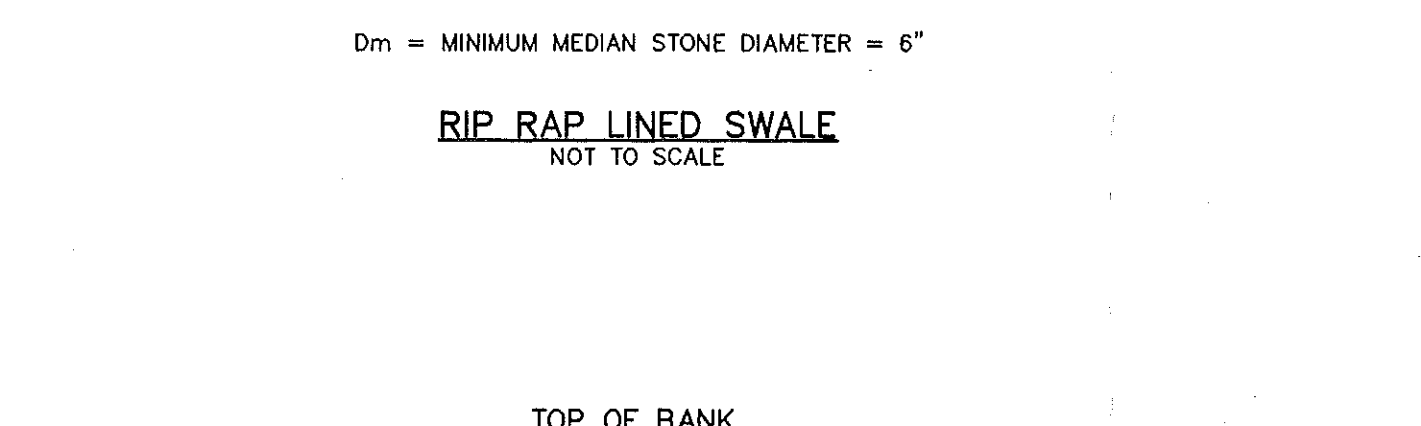
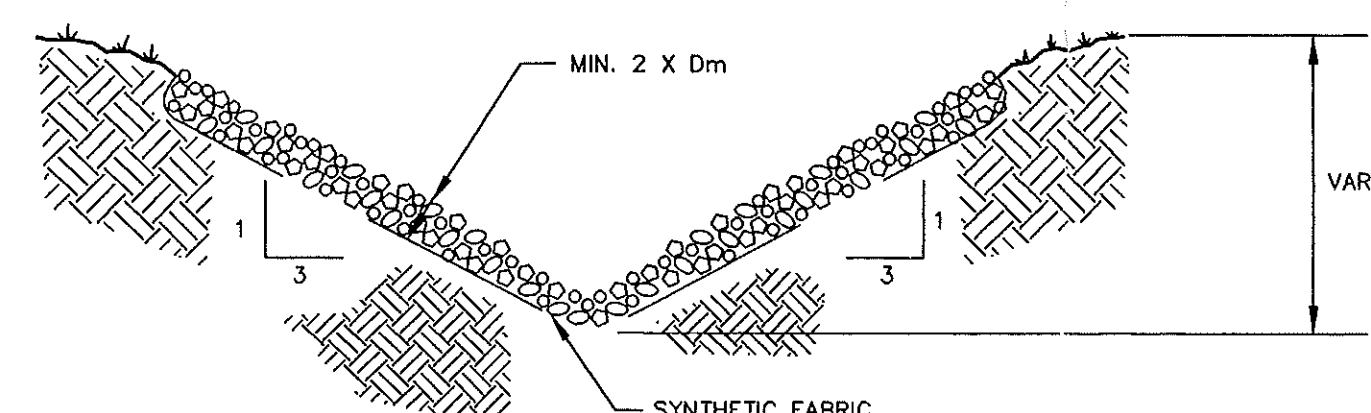
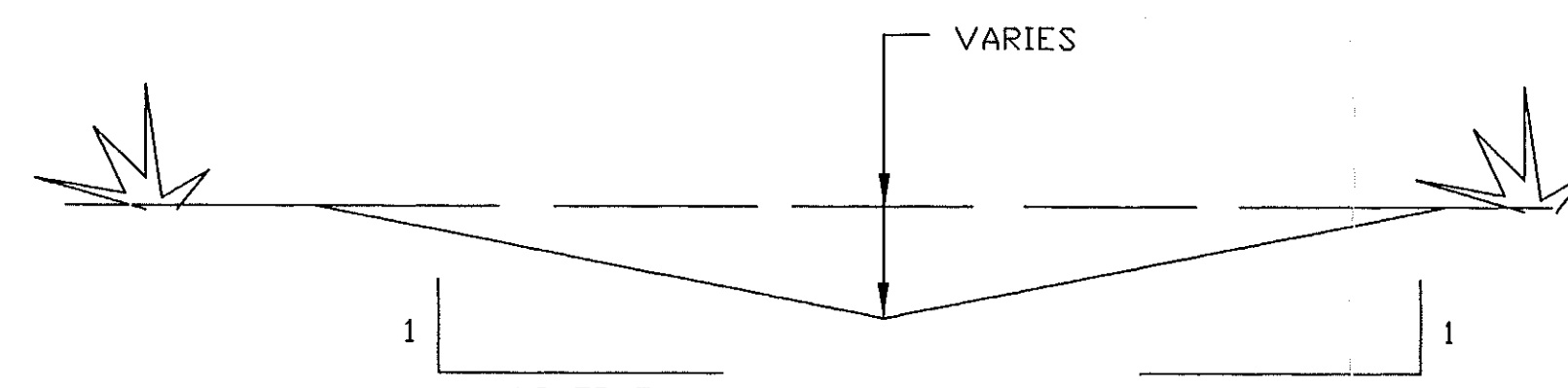
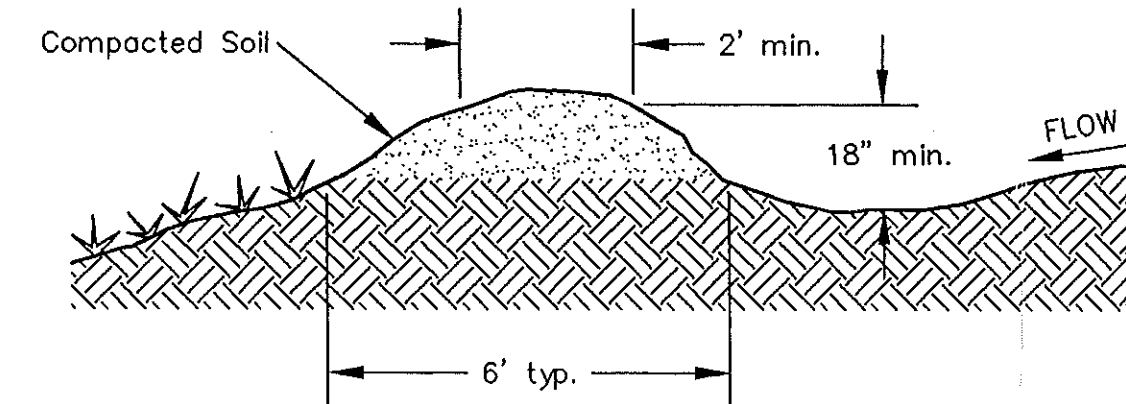
SLOPE	SLOPE LENGTH (FT.)
<2%	100
2 TO 5%	75
5 TO 10%	50
10 TO 20%	25
>20%	15

REF: EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, D.N.R.C.D. 1988.



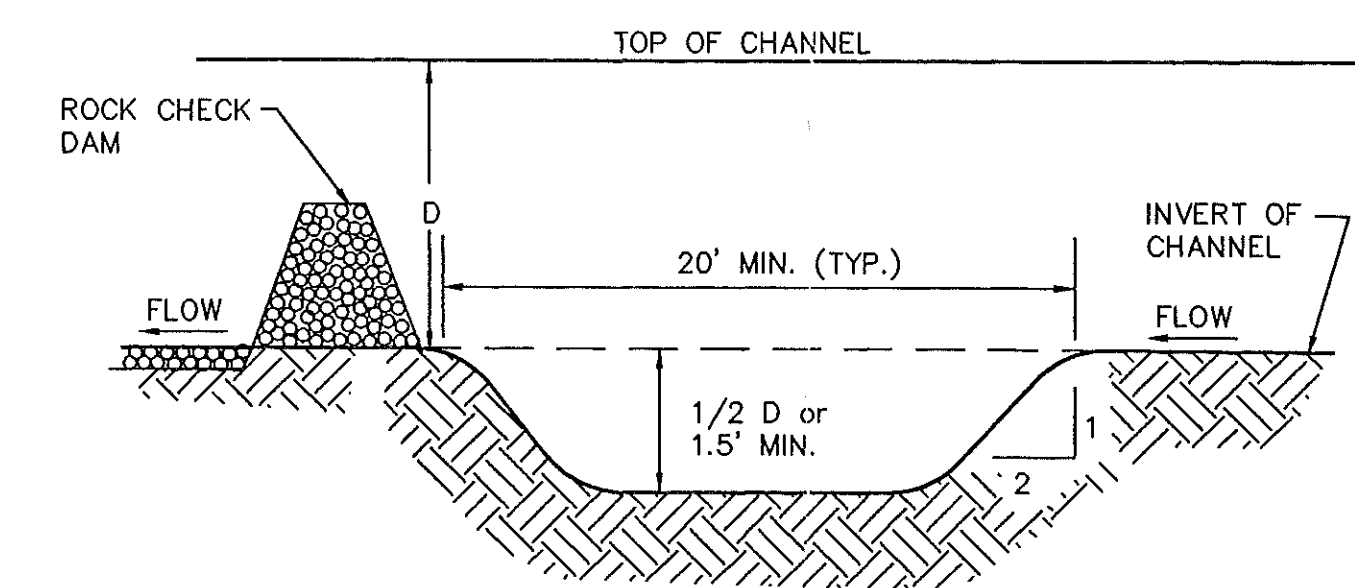
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than six (6) inches.
 - Width - Not less than full width of all points of ingress or egress. Minimum of 12'.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sandbags, grove, boards or other approved methods.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment, spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.



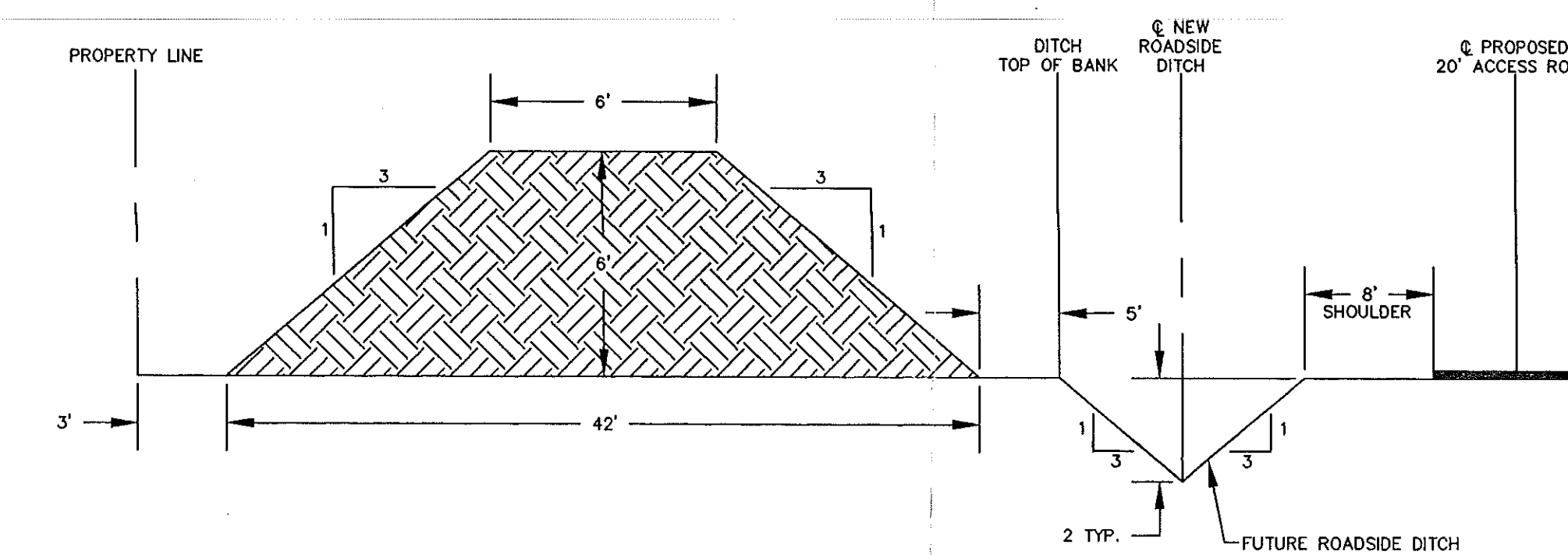
- NOTES:**
- TYPICAL WIDTH 3'
 - REMOVE SPOILS AS PART OF DITCH GRADING.

DITCH SEDIMENT TRAP
NOT TO SCALE



- NOTES:**
- MAXIMUM TYPICAL WIDTH 4'
 - AT LEAST ONE TRAP TO BE LOCATED TO PROTECT ENTRANCE TO EACH ENCLOSED STORM DRAIN CONDUIT.
 - SEE PLANS FOR MINIMUM STORAGE VOLUME FOR SPECIFIC LOCATIONS.
 - MINIMUM VOLUME OF 3 C.Y. TYPICAL FOR TRAPS UNSIZED ON PLANS.
 - MAINTAIN LENGTH TO WIDTH RATIO OF 5:1 WHERE REASONABLY POSSIBLE AND SHALL BE 3:1 OR GREATER FOR ALL INSTALLATIONS

TEMPORARY IN CHANNEL SEDIMENT TRAP
NOT TO SCALE



50' EARTHEN BERM DETAIL
NOT TO SCALE

SEDIMENT TRAP CHART

Sediment Trap	Disturbed Area (Acres)	Volume (Cubic Yards)	Length x Width x Depth
#1	0.91	60	40' L x 15' W x 3' D
#2	0.29	20	28' L x 10' W x 3' D
#3	0.69	50	45' L x 10' W x 3' D
#4	2.4	160	75' L x 20' W x 3' D
#5	2.2	215	100' L x 20' W x 3' D
#6	2.3	160	75' L x 20' W x 3' D
#7	1.2	80	40' L x 15' W x 3' D
#8	0.80	60	40' L x 15' W x 3' D
#9	0.80	60	40' L x 15' W x 3' D
#10	0.85	60	40' L x 15' W x 3' D
#11	2.8	200	90' L x 20' W x 3' D
#12	2.0	140	65' L x 20' W x 3' D
#13	3.3	220	100' L x 20' W x 3' D

Erosion and Sedimentation Control Notes:

- Construction Sequence:**
 - Notify Architect and North Carolina Department of Environment, Health, and Natural Resources Land Quality Section at (910)940-6481 prior to beginning construction.
 - Install stabilized construction entrance at existing dirt road access from Pedro Boulevard.
 - Begin clearing and grubbing of areas within grading limits. Those areas identified to be selectively cleared shall be cleared of undergrowth and small trees less than 4 in. diameter except for drainage outlets through these areas.
 - Install silt fences and temporary diversion swales in locations shown on plans.
 - Construct drainage swales and ditches with sediment traps and rock check dams where indicated.
 - Utilize suitable excavated on-site materials to construct earthen berm.
 - Rough grade site to contours as indicated.
 - Prepare Building Pad to elevations indicated.
 - Seed, fertilize, and mulch all disturbed areas within 30 days of completing the grading work for the areas involved.
- Seeding Specifications:**

Apply lime and fertilizer and work into seed bed. Seed mixture shall be distributed uniformly and covered with a clean straw mulch. Where slopes exceed 4% asphalt tack shall be applied. Minimum material and application rates are as follows:

MATERIAL	APPLICATION RATE
Lime	1000 lbs/ac.
Fertilizer (10-10-10)	800 lbs/ac.
Rebel Fescue	100 lbs/ac.
Common Bermuda	100 lbs/ac.
(Unhulled Sept. 1-April 1)	25 lbs/ac.
Mulch	1.5 Tons/ac.

See Specifications for Additional Grassing Information. Use most strict specifications.
- Contractor is responsible for maintaining all erosion control measures and shall amend measures as required to prevent accelerated erosion from taking place on the site.
- Once areas have been stabilized, Contractor is to remove temporary erosion control measures, regrade, reseed and mulch these areas as needed.
- See Specifications for additional construction information.

PROGRESS DRAWINGS - DO NOT USE FOR CONSTRUCTION

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CONSULTING ENGINEERS, LAND SURVEYORS, LAND PLANNERS
P.O. BOX 976 JACKSONVILLE, NC 28541-0976

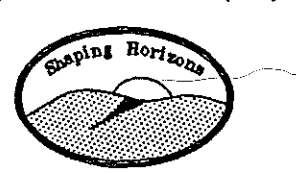
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Phone (910) 455-2414 - Fax (910) 455-3441



Project Manager,
Project Architect,
Project Engineer: G.R. McADAMS
drawn by: L. L. Fiveash
checked by: i

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no.	description	date
Revisions		

PRE-GRADING HAVELOCK MIDDLE SCHOOL

CRAVEN COUNTY SCHOOLS
CRAVEN COUNTY, NORTH CAROLINA
project title

DETAIL SHEET

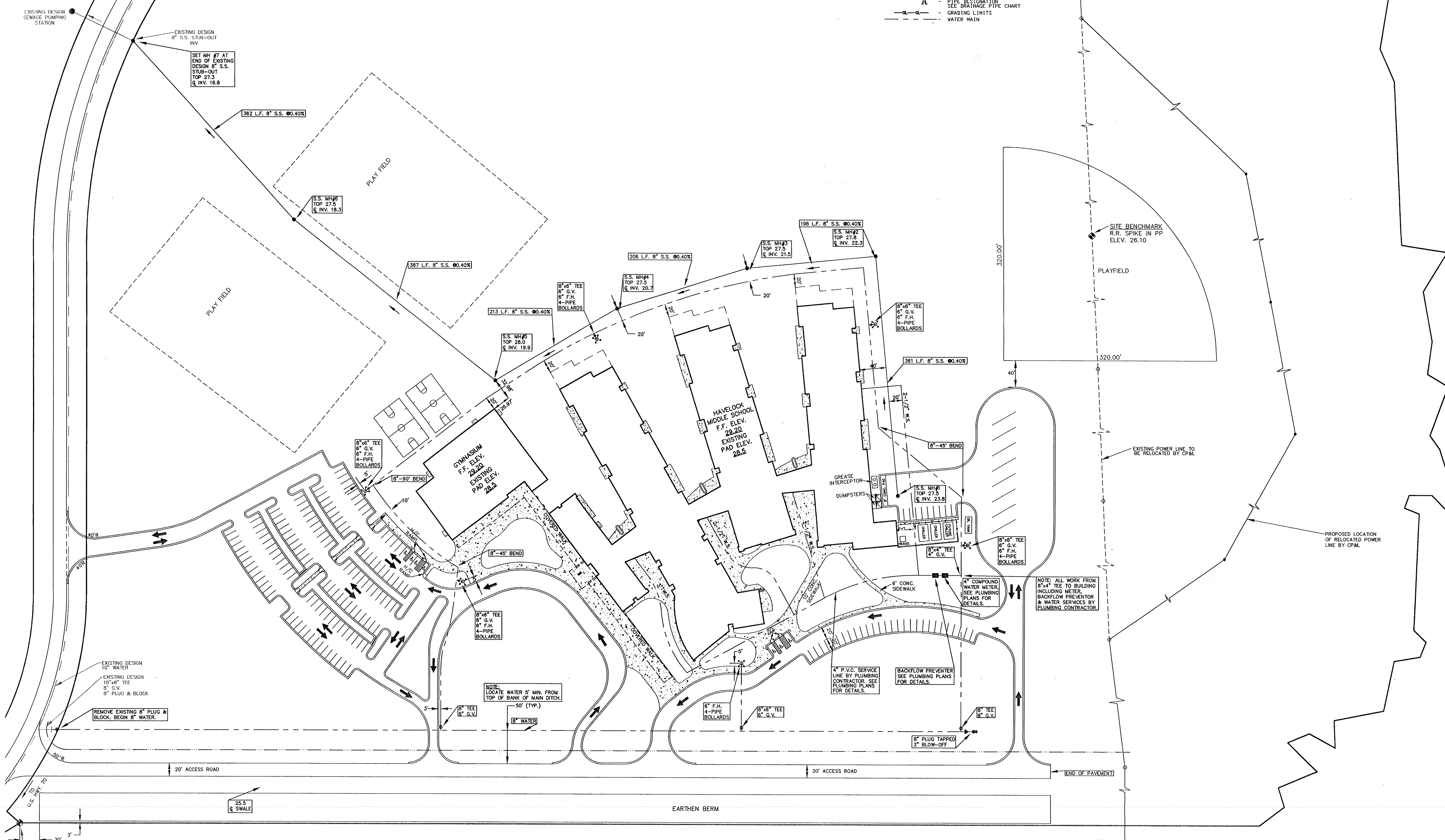
sheet title scale: AS SHOWN

9420 project no.	sheet no. of
11/21/95 date	sheet no. L-2

PEDRO BOULEVARD
80' R/W

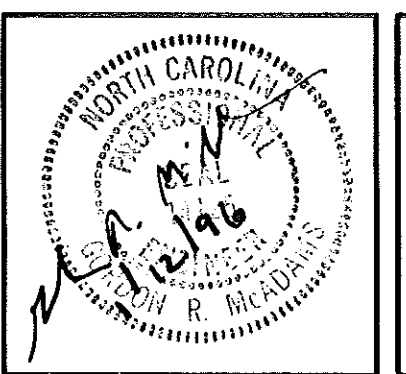
- WATER AND SEWER NOTES:
1. Installation of all water mains and related appurtenances shall be done in accordance with the requirements of the Craven County Utilities Department.
 2. Contractor shall notify Utilities Engineer 48 hours in advance of beginning construction. Coordinate tie-in to all existing utilities with Utilities Engineer.
 3. Water mains shall be buried to a depth of 30- inches unless otherwise noted.
 4. Water lines shall be at least 18 inches or 10 feet horizontally from sewer mains or be of Ferrous Material.
 5. See specifications for additional information.
 6. See Plumbing Plans for water and sewer service locations.

- LEGEND
- WS - WATER SERVICE
 - MH - MANHOLE
 - SS - SANITARY SEWER
 - CD - CLEAN OUT
 - RCP - REINFORCED CONCRETE PIPE
 - FES - FLANGED END SECTION
 - YICB - YARD INLET CATCH BASIN
 - CICB - CURB INLET CATCH BASIN
 - JB - JUNCTION BOX
 - CC - CONCRETE CHUTE
 - TDC - TOP OF CURB
 - EDC - END OF CHUTE
 - FL - FLOW LINE
 - RCD - ROCK CHECK DAM
 - RIP RAP SCOUR PAD
 - ST - SEDIMENT TRAP
 - FH - FIRE HYDRANT
 - GV - GATE VALVE
 - DS - DOWN SPOUT - PIPED
 - SB - DOWN SPOUT W/SPASH BACK
 - PROPOSED SPOT ELEVATION
 - EXISTING CONTOUR
 - PAINTED TRAFFIC FLOW ARROWS
 - PAINTED HANDICAP SYMBOL
 - DRAINAGE FLOW ARROWS
 - PIPE DESIGNATION
 - SEE DRAINAGE PIPE CHART
 - GRADING LIMITS
 - WATER MAIN

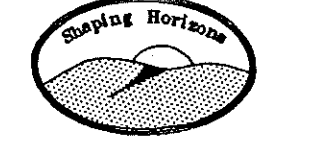


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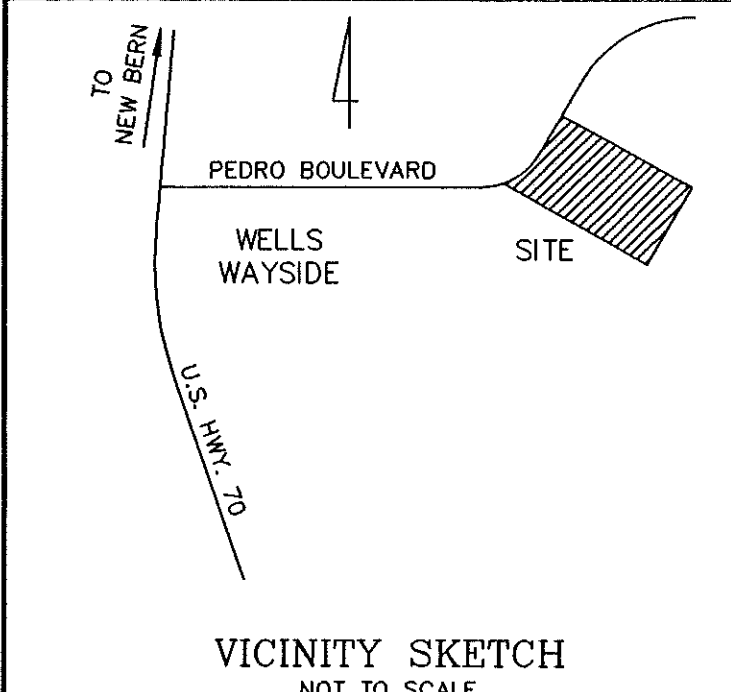
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drawn by: **Z. L. Fiveash**
checked by:

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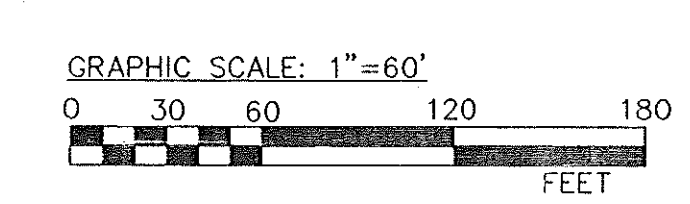
HAVELOCK MIDDLE SCHOOL

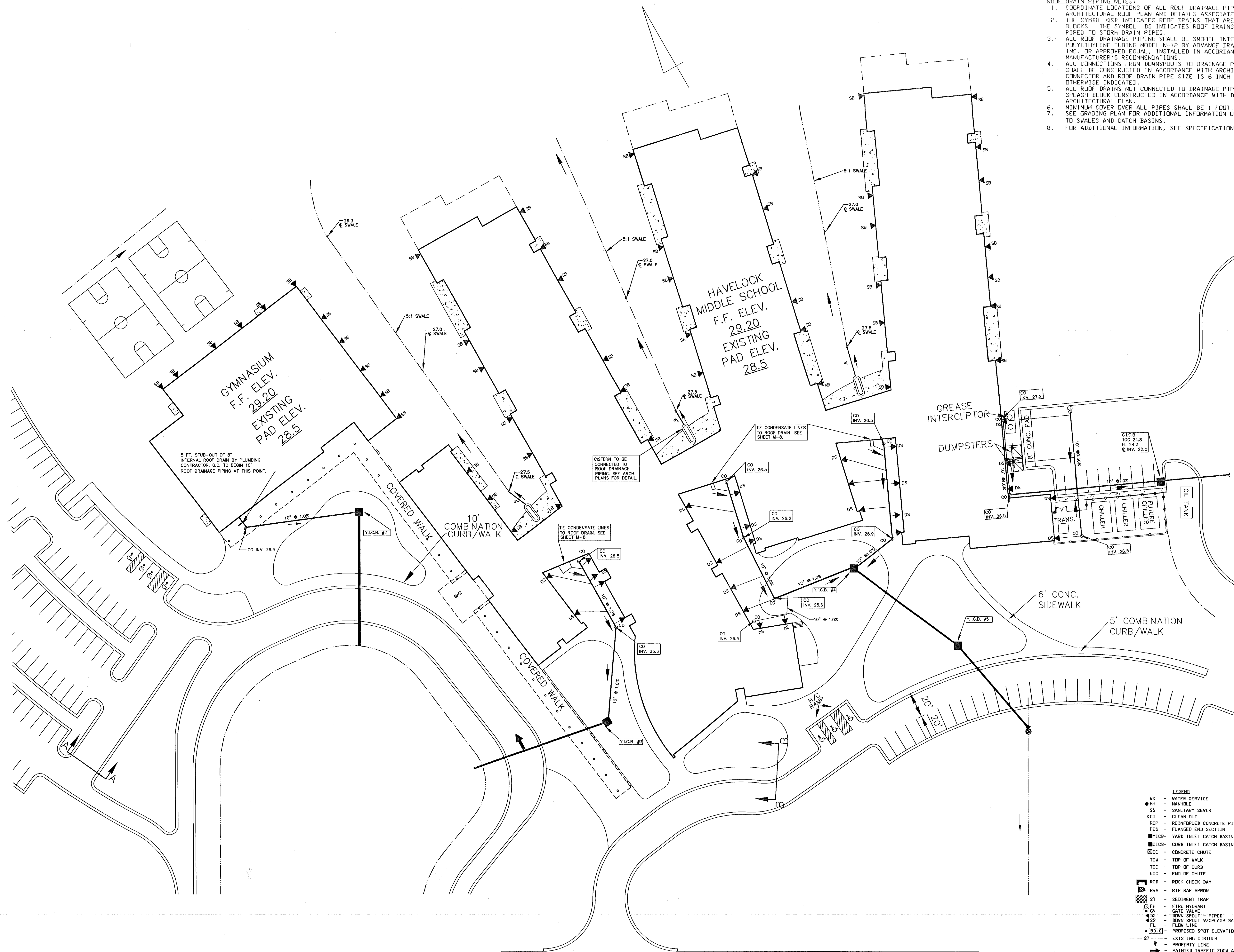
Craven County Schools
Craven County, North Carolina

project title
WATER & SEWER PLAN

sheet title	scale: 1"=60'
9502.01 project no.	sheet no. of
01/15/96 date	sheet no. L-2

FIELD BOOK: CRAVEN CO., POS. 1-20
DISK NAME: ACAD 2702
FILE NAME: HNS-SF0209
JOB NO.: 0251025-018538



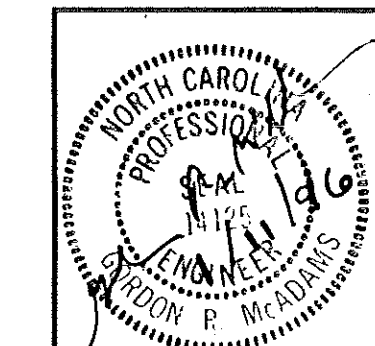


- ROOF DRAIN PIPING NOTES:**
1. COORDINATE LOCATIONS OF ALL ROOF DRAINAGE PIPING WITH THE ARCHITECTURAL ROOF PLAN AND DETAILS ASSOCIATED THEREWITH.
 2. THE SYMBOL DS INDICATES ROOF DRAINS THAT ARE TO HAVE SPLASH BLOCKS. THE SYMBOL DS INDICATES ROOF DRAINS THAT ARE TO BE PIPED TO STORM DRAIN PIPES.
 3. ALL ROOF DRAINAGE PIPING SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE TUBING MODEL N-12 BY ADVANCE DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. ALL CONNECTIONS FROM DOWNSPOUTS TO DRAINAGE PIPING MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL DETAIL. CONNECTOR AND ROOF DRAIN PIPE SIZE IS 6 INCH DIAMETER, UNLESS OTHERWISE INDICATED.
 5. ALL ROOF DRAINS NOT CONNECTED TO DRAINAGE PIPE SHALL HAVE A SPLASH BLOCK CONSTRUCTED IN ACCORDANCE WITH DETAIL ON ARCHITECTURAL PLAN.
 6. MINIMUM COVER OVER ALL PIPES SHALL BE 1 FOOT.
 7. SEE GRADING PLAN FOR ADDITIONAL INFORMATION ON CONNECTIONS TO SWALES AND CATCH BASINS.
 8. FOR ADDITIONAL INFORMATION, SEE SPECIFICATIONS.

THE SMITH SINNETT ASSOCIATES, P.A.

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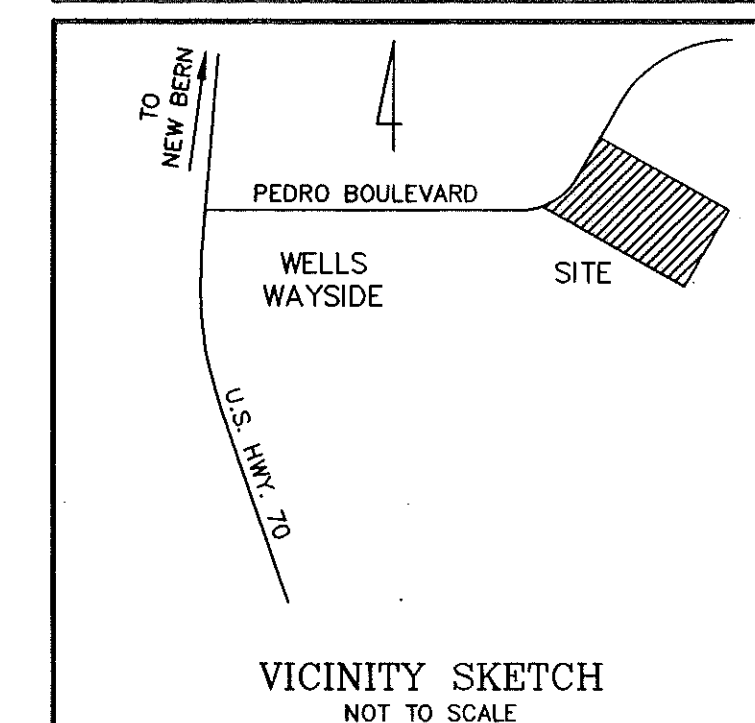
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checked by: **L. L. Fiveash**

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no.	description	date
Revisions		



HAVELOCK MIDDLE SCHOOL

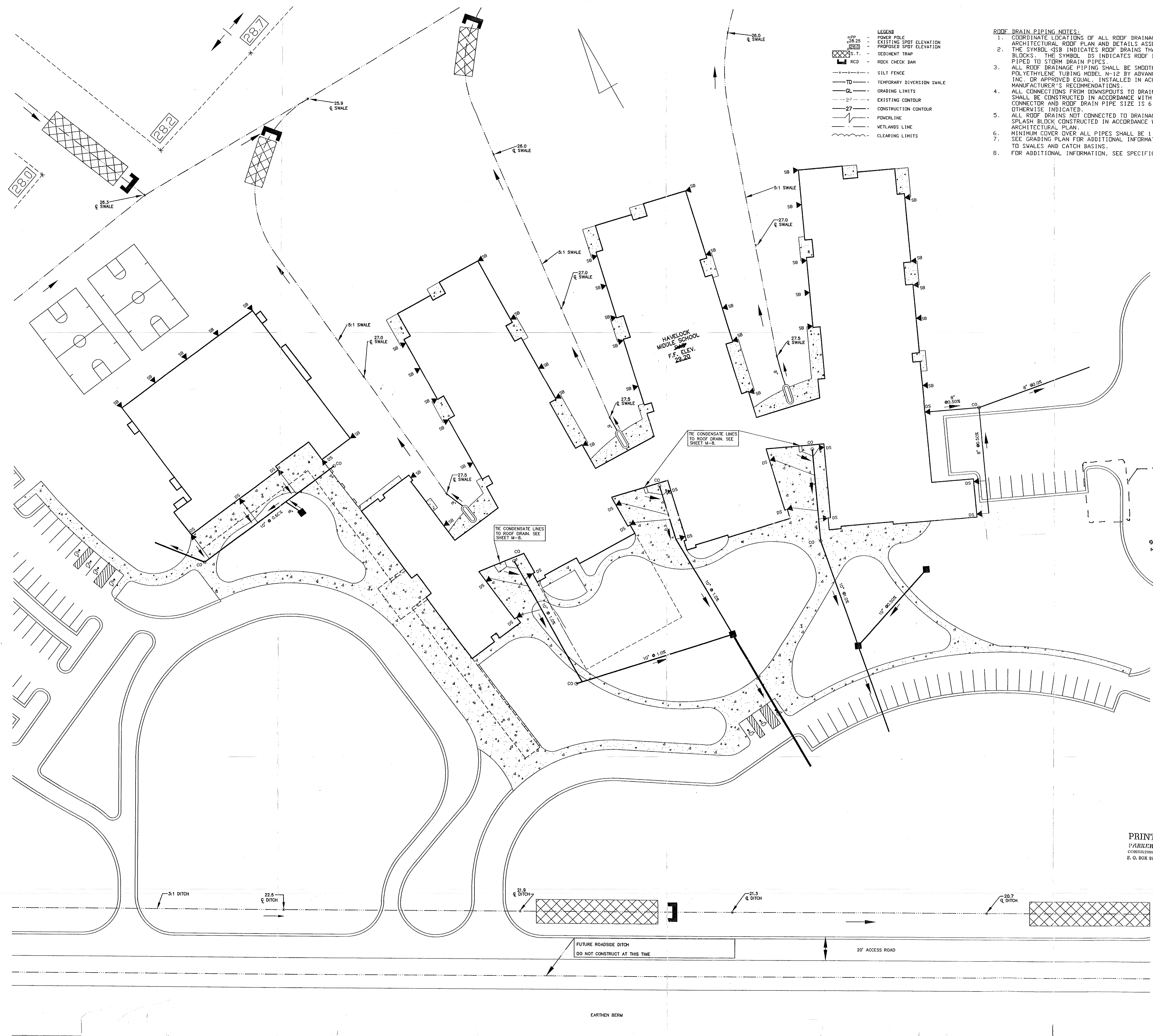
CRAVEN COUNTY SCHOOLS
CRAVEN COUNTY, NORTH CAROLINA
project title

ROOF DRAINAGE PLAN
sheet title

9502.01 project no.	sheet no. of
1/15/96 date	sheet no. L-3

FIELD BOOK: CRAVEN CO., PGS. 1-20
DISK NAME: ACAD 2720
FILE NAME: HNS.DWG
JOB NO.: C851020-016538

GRAPHIC SCALE: 1"=30'
0 10 20 30 40 50 60 70 80 90
FEET



- ROOF DRAIN PIPING NOTES:**
- COORDINATE LOCATIONS OF ALL ROOF DRAINAGE PIPING WITH THE ARCHITECTURAL ROOF PLAN AND DETAILS ASSOCIATED THEREWITH.
 - THE SYMBOL DS INDICATES ROOF DRAINS THAT ARE TO HAVE SPLASH BLOCKS. THE SYMBOL DS INDICATES ROOF DRAINS THAT ARE TO BE PIPED TO STORM DRAIN PIPES.
 - ALL ROOF DRAINAGE PIPING SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE TUBING MODEL N-12 BY ADVANCE DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL CONNECTIONS FROM DOWNSPOUTS TO DRAINAGE PIPING MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL DETAIL. CONNECTOR AND ROOF DRAIN PIPE SIZE IS 6 INCH DIAMETER, UNLESS OTHERWISE INDICATED.
 - ALL ROOF DRAINS NOT CONNECTED TO DRAINAGE PIPE SHALL HAVE A SPLASH BLOCK CONSTRUCTED IN ACCORDANCE WITH DETAIL ON ARCHITECTURAL PLAN.
 - MINIMUM COVER OVER ALL PIPES SHALL BE 1 FOOT.
 - SEE GRADING PLAN FOR ADDITIONAL INFORMATION ON CONNECTIONS TO SWALES AND CATCH BASINS.
 - FOR ADDITIONAL INFORMATION, SEE SPECIFICATIONS.

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drawn by: **L. L. Fiveash**
checked by: _____

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no.	description	date

VICINITY SKETCH
NOT TO SCALE

HAVELOCK MIDDLE SCHOOL
GRAVEN COUNTY SCHOOLS
GRAVEN COUNTY, NORTH CAROLINA
project title

ROOF DRAINAGE PLAN
sheet title scale: 1"=60'

9502	sheet no.	of:
12/XX/95	date	sheet no. L-3

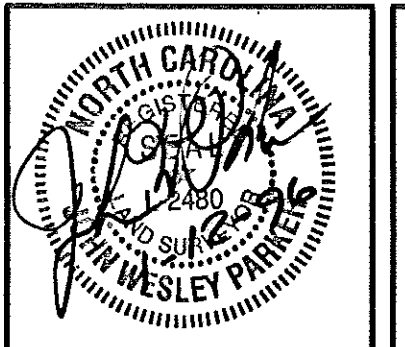
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BOOK NAME: ACAD. 2752
FILENAME: H15L_PFDOR.DWG
JOB NO.: 0351001-010538

GRAPHIC SCALE: 1"=60'
0 10 20 30 40 50 60 70 80
FEET

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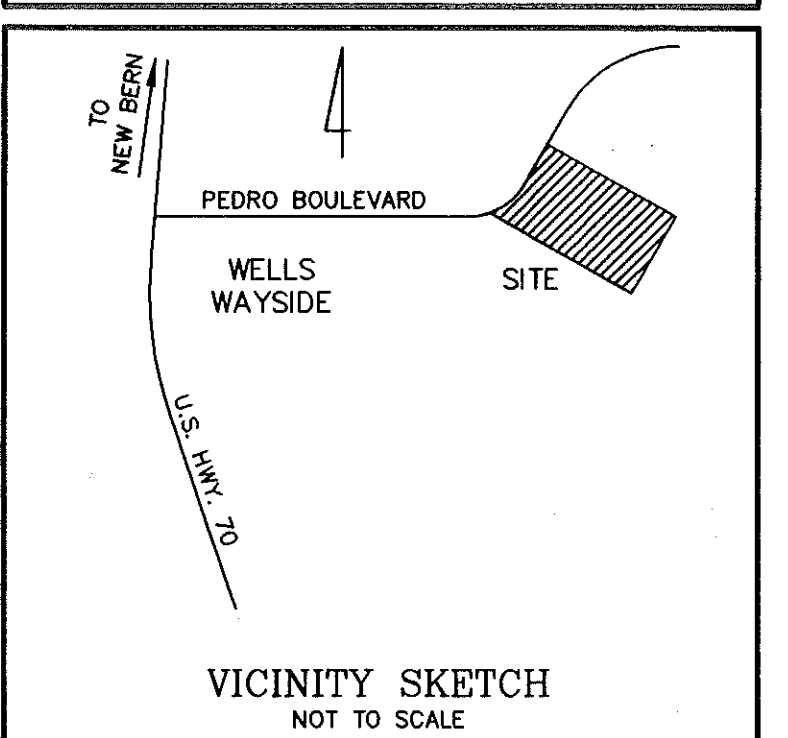
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checked by: .

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no.	description	date
Revisions		



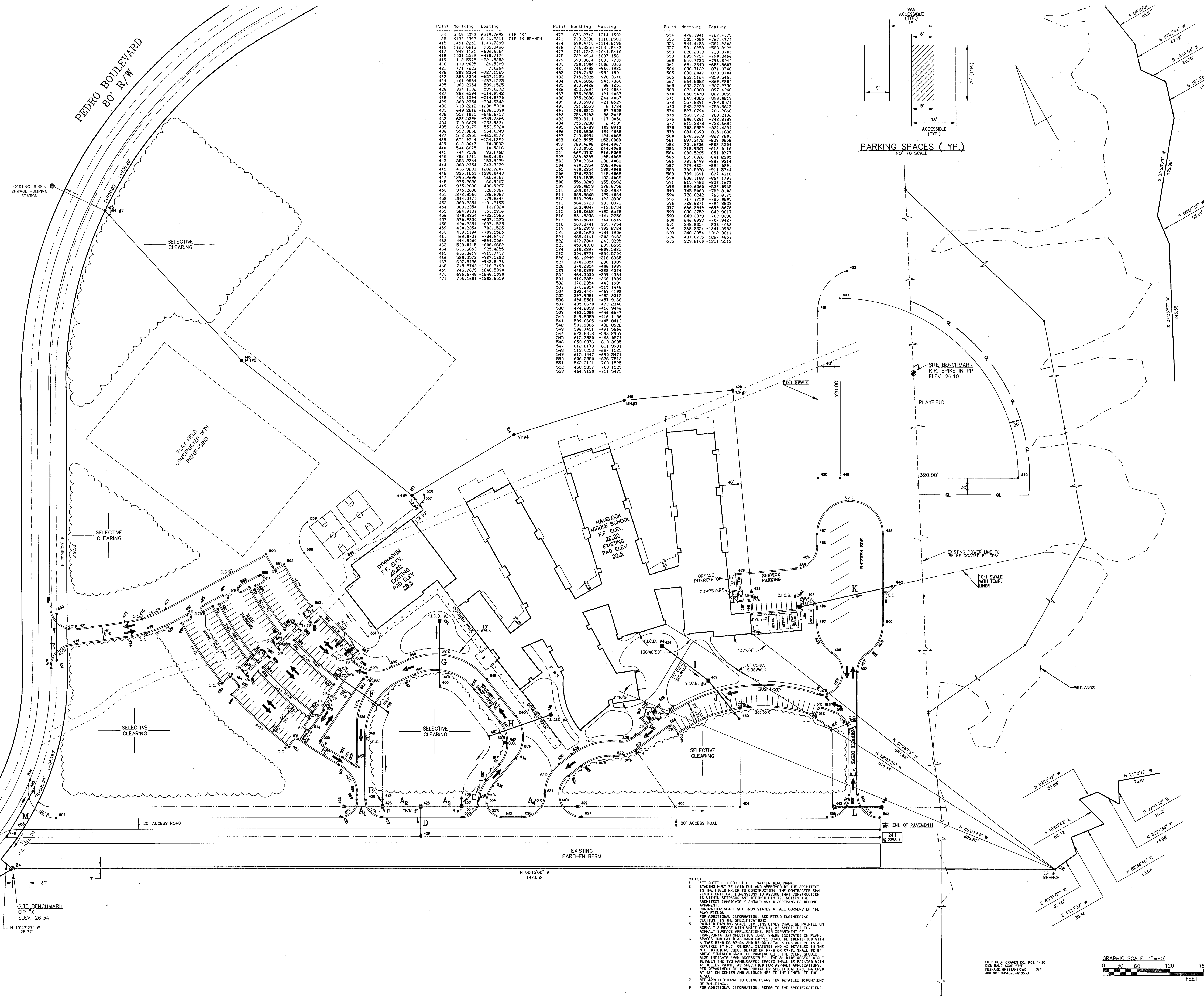
HAVELOCK MIDDLE SCHOOL

GRAVEN COUNTY SCHOOLS
GRAVEN COUNTY, NORTH CAROLINA
project title

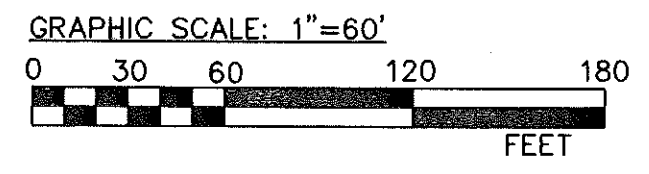
STAKING PLAN

sheet title scale: 1"=60'

9502.01 project no.	sheet no. of
01/15/96 date	sheet no. L-4



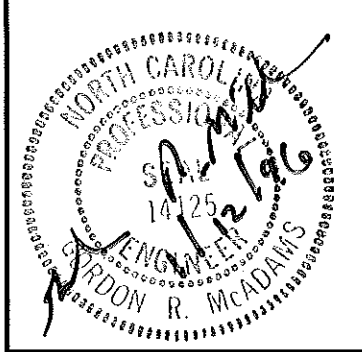
- NOTES:
- SEE SHEET L-1 FOR SITE ELEVATION BENCHMARK.
 - STAKING MUST BE LAYED OUT AND APPROVED BY THE ARCHITECT IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS TO ASSURE THAT CONSTRUCTION IS WITHIN SETBACKS AND DEFINED LIMITS. NOTIFY THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BECOME APPARENT.
 - CONTRACTOR SHALL SET IRON STAKES AT ALL CORNERS OF THE PLAY FIELDS.
 - FOR ADDITIONAL INFORMATION, SEE FIELD ENGINEERING SECTION, IN THE SPECIFICATIONS.
 - PAINTED PARKING SPACE DIVIDING LINES SHALL BE PAINTED ON ASPHALT SURFACE WITH WHITE PAINT, AS SPECIFIED FOR ASPHALT SURFACE APPLICATIONS, PER DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, WHERE INDICATED ON PLAN.
 - SPACES INDICATED AS HANDICAPPED SHALL BE IDENTIFIED WITH A TYP. R7-B OR R7-Ba AND R7-Bb METAL SIGNS AND POSTS AS REQUIRED BY N.C. GENERAL STATUTES AND AS DETAILED IN THE N.C. BUILDING CODE, BOTTOM OF R7-B OR R7-Ba SHALL BE 8" ABOVE FINISHED GRADE OF PARKING LOT. THE SIGNS SHALL ALSO INDICATE "VAN ACCESSIBLE". THE 8" VIDE ACCESS AISLE BETWEEN THE TWO HANDICAPPED SPACES SHALL BE PAINTED WITH 4" YELLOW PAINT, AS SPECIFIED FOR ASPHALT APPLICATIONS, PER DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, MATCHED AT 45° ON CENTER AND ALIGNED 45° TO THE LENGTH OF THE AISLE.
 - SEE ARCHITECTURAL BUILDING PLANS FOR DETAILED DIMENSIONS OF BUILDINGS.
 - FOR ADDITIONAL INFORMATION, REFER TO THE SPECIFICATIONS.



FIELD BOOK: GRAVEN CO., PGS. 1-20
BOOK NAME: ACAD 2720
FILE NAME: UNSTAKING.ZIP
JOB NO.: 0951020-018538

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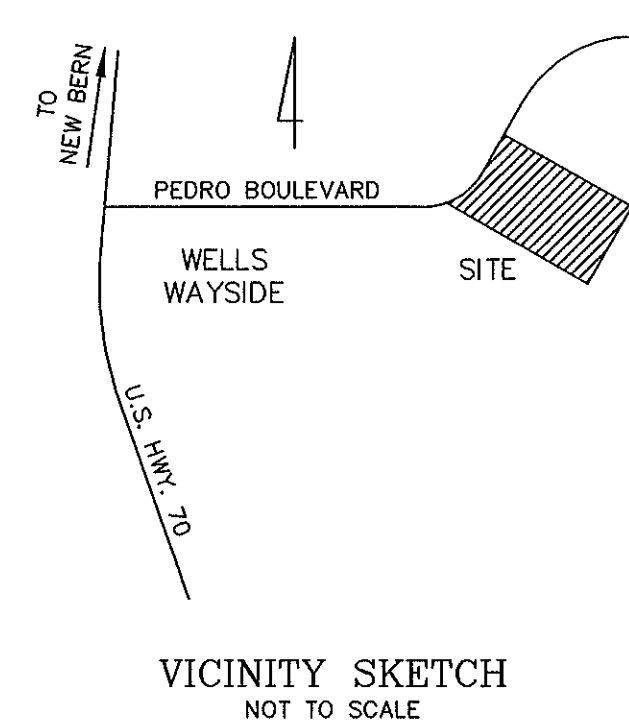
Consultant

Project Manager,
Project Architect,
Project Engineer: G. R. McAdams
drawn by: L. L. Fiveash
checked by: .

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no. description date

Revisions



HAVELOCK MIDDLE SCHOOL

GRAVEN COUNTY SCHOOLS
GRAVEN COUNTY, NORTH CAROLINA
project title

GRADING, DRAINAGE, & EROSION DETAILS
sheet title scale: as shown

9502.01
project no.

1/15/96
date

sheet no. of: .

sheet no. L-5

Erosion and Sedimentation Control Notes:

- Construction Sequence:
 - Notify Architect and North Carolina Department of Environment, Health, and Natural Resources Land Quality Section at (910) 946-6481 prior to beginning construction.
 - Maintain stabilized construction entrance at existing dirt road access from Pedro Boulevard until new drive entrances are constructed. Construct new stabilized construction entrances where indicated.
 - Clear and grub areas beyond power line for playfield and ditch outfall.
 - Install silt fence in location shown on plans.
 - Construct drainage swales and ditches with sediment traps and rock check dams where indicated.
 - Install storm drainage piping, water, and sewer utilities.
 - Install catch basins with temporary silt fence.
 - Rough grade drives and parking areas.
 - Maintain Erosion Control measures after every rainfall event to assure full functionality. General contractor will be responsible for maintaining and amending as necessary all Erosion Control measures installed as part of the pre-grading project through the completion of the building project. See the Pre-grading Plans for locations and details of those measures.
 - Fine grade drives. Place CABC over compacted subgrade.
 - Install asphalt surface course.
 - Complete fine grading of roadside shoulders, swales and all disturbed/graded areas.
 - Seed, fertilize and mulch all disturbed areas within 30 days of completing the grading work for the area involved.

- Seeding Specifications

Apply lime and fertilizer and work into seed bed. Seed mixture shall be distributed uniformly and covered with a clean straw mulch. Where slopes exceed 4% asphalt tack shall be applied. Minimum material and application rates are as follows:

MATERIAL	APPLICATION RATE
Lime	1000 lbs/ac.
Fertilizer	800 lbs/ac.
"Rebel" Rescue	100 lbs/ac.
Common Bermuda (Unhulled Sept. - April 1)	25 lbs/ac.
Mulch	1.5 Tons/ac.

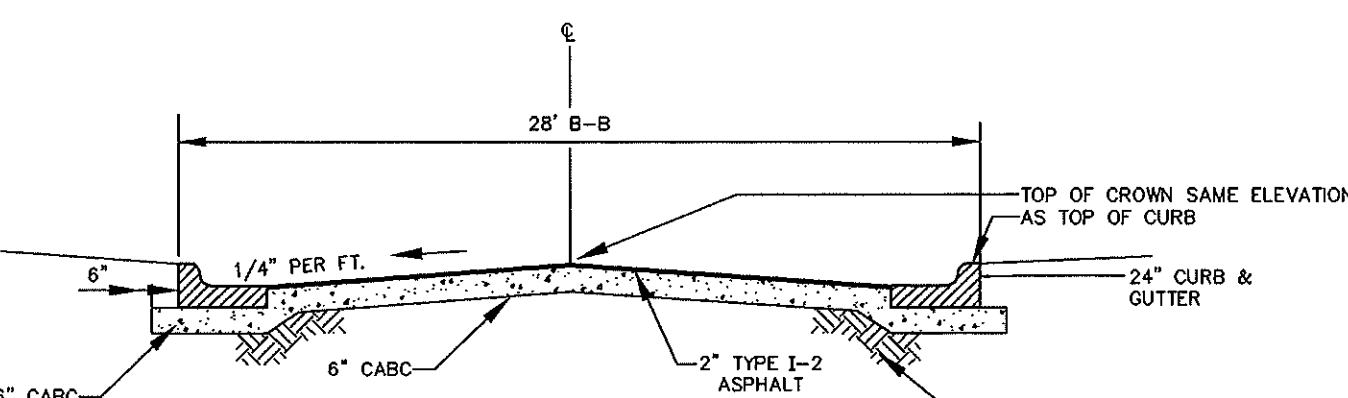
- See Specifications for Additional Grassing information. Use most strict specifications.
- Contractor is responsible for maintaining all erosion control measures and shall amend measures as required to prevent accelerated erosion from taking place on the site.
- Once areas have been stabilized, Contractor is to remove temporary erosion control measures, regrade, reseed and remove these areas as needed.
- See Specifications for additional construction information.
- Temporary liner for swales shall be Curlex Blankets by American Excelsior Company or approved equal.

DRAINAGE DATA CHART

PIPE	AREA (ACRES)	Q10 (CFS)	DIAMETER (INCHES)	GRADE (FT/FT)	LENGTH (LF)	Q10 OUTLET VELOCITY	NOTES
A-1	2.1	10.5	24	.003	64	N/A	F.E.S. At Outlet
A-2	2.8	13.3	24	.003	68	N/A	
A-3	4.3	17.2	30	.003	74	N/A	
A-4	6.1	25.3	36	.003	204	N/A	F.E.S. & Scour Pad At Outlet
B	0.65	2.8	15	.01	10	N/A	F.E.S. At Inlet
C	1.8	8.1	18	.01	10	N/A	
D	0.87	2.5	15	.04	40	N/A	F.E.S. At Inlet
E	3.3	9.6	18	.005	75	N/A	F.E.S. Each end; Sour Pad At Outlet
F	0.31	2.0	15	.003	100	N/A	F.E.S. & Scour Pad At Outlet
G	0.45	2.6	15	.003	112	N/A	F.E.S. & Scour Pad At Outlet
H	0.37	1.9	15	.003	114	N/A	F.E.S. & Scour Pad At Outlet
I	0.71	3.6	15	.006	104	N/A	
J	0.99	4.8	18	.003	84	N/A	F.E.S. & Scour Pad At Outlet
K	0.38	2.5	15	.006	168	N/A	F.E.S. & Scour Pad At Outlet
L	10.2	39.0	36	.004	72	N/A	F.E.S. & Scour Pad At Outlet
D	0.53	1.9	15	.003	87	N/A	F.E.S. Each End; Scour Pad At Outlet

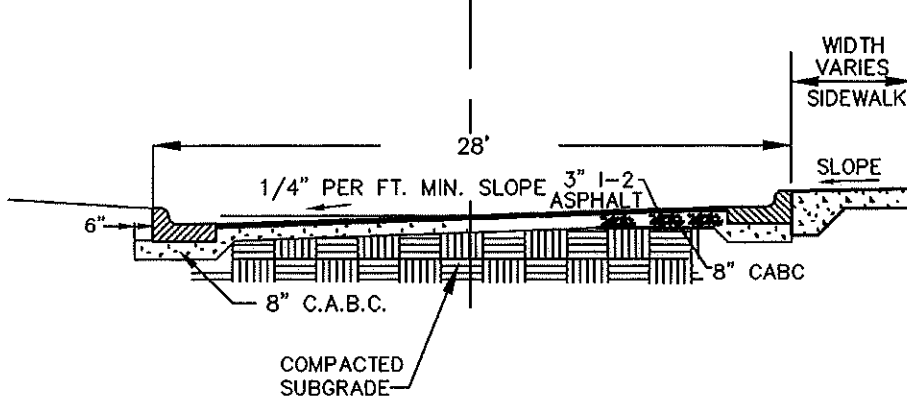
Note: Pipe Lengths do not include Length of Flared End Section.

Q=CIA
110=7.17 In/Hr.
All Pipes Reinforced Concrete.



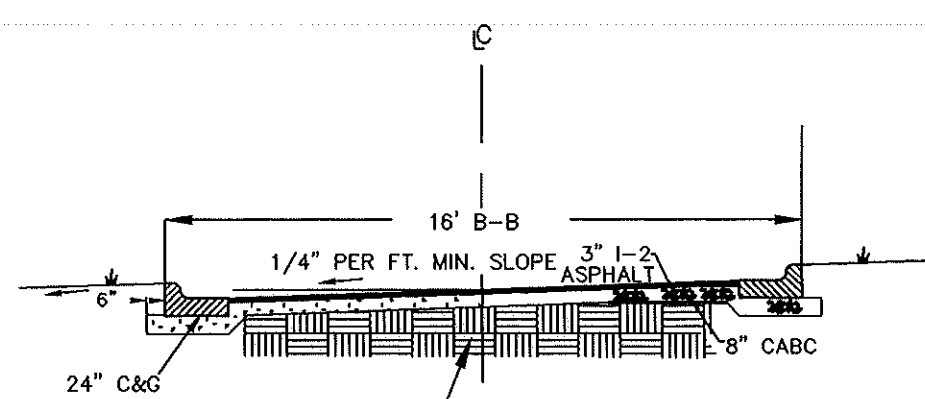
- NOTES:
- PAVEMENT SECTION FOR MAIN PARKING LOT AND ASSOCIATED DRIVES CONSIST OF 2 INCHES TYPE 1-2 ASPHALTIC CONCRETE SURFACE COURSE, AND 6 INCHES OF COARSE AGGREGATE TYPE BASE COURSE INSTALLED OVER COMPACTED SUBGRADE.
 - SEE SITE PLAN FOR STREET, GRADES, AND CROSS-SECTION SLOPES.

MAIN PARKING LOT & STUDENT DROP-OFF DRIVE SECTION A-A
NOT TO SCALE



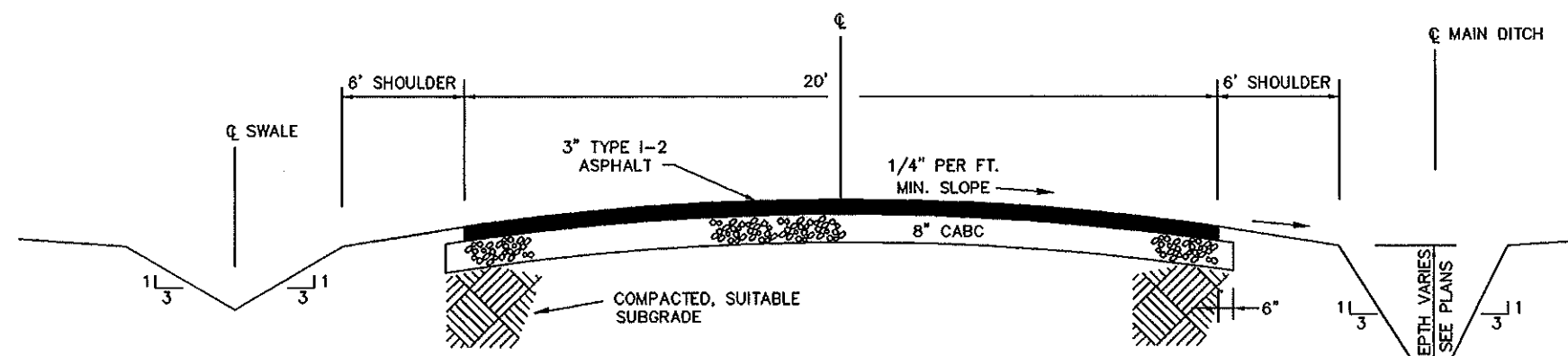
- NOTES:
- PAVEMENT SECTION FOR BUS LOOP CONSIST OF 3 INCHES OF TYPE 1-2 ASPHALTIC CONCRETE SURFACE COURSE, AND 8 INCHES OF COARSE AGGREGATE BASE COURSE INSTALLED OVER COMPACTED SUBGRADE.
 - SEE SITE PLAN FOR STREET GRADES.

BUS LOOP SECTION B-B
NOT TO SCALE



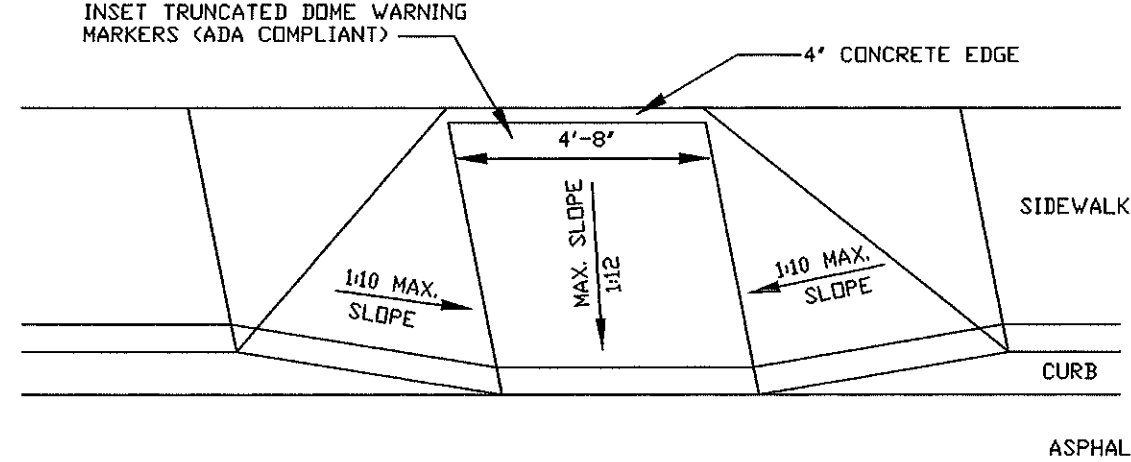
- NOTES:
- PAVEMENT SECTION FOR SERVICE DRIVE, BUS PARKING, AND SERVICE PARKING AREAS SHALL CONSIST OF 3 INCHES OF ASPHALTIC CONCRETE SURFACE COURSE, AND 8 INCHES OF COARSE AGGREGATE BASE COURSE INSTALLED OVER COMPACTED SUBGRADE.
 - SEE SITE PLAN FOR STREET GRADE.

SERVICE DRIVE SECTION C-C
NOT TO SCALE

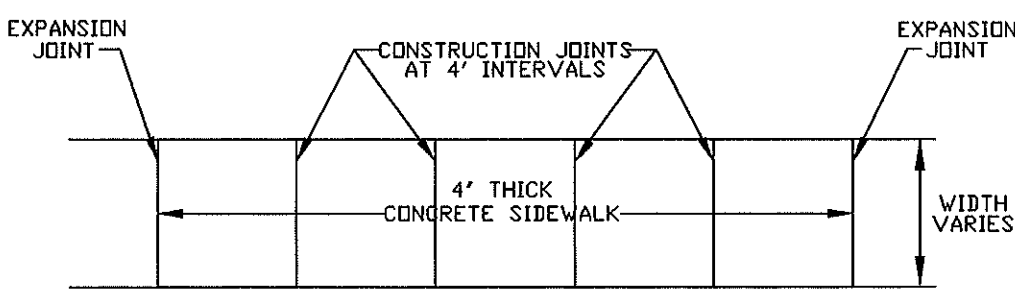


- NOTES:
- MAIN DITCH CONSTRUCTED AS PART OF PRE-GRADING CONTRACT.
 - ROADSIDE SWALE TO BE CONSTRUCTED AS PART OF THIS CONTRACT.
 - PAVEMENT SECTION FOR ACCESS ROAD TO CONSIST OF 3 INCHES OF TYPE 1-2 ASPHALTIC CONCRETE SURFACE AND 8 INCHES OF COARSE AGGREGATE BASE COURSE INSTALLED OVER COMPACTED SUBGRADE.
 - SEE SITE PLAN FOR STREET GRADES.

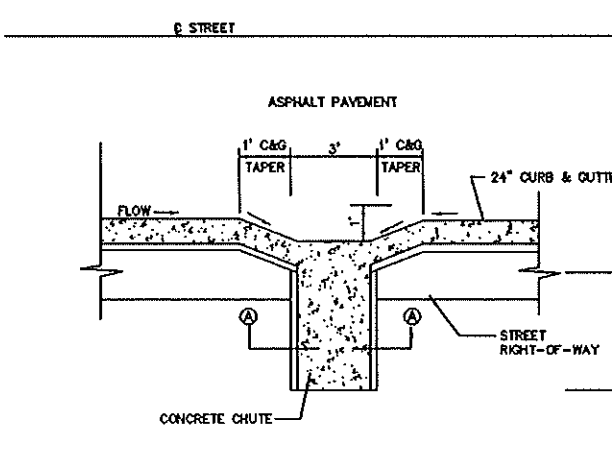
TYPICAL 24\"/>



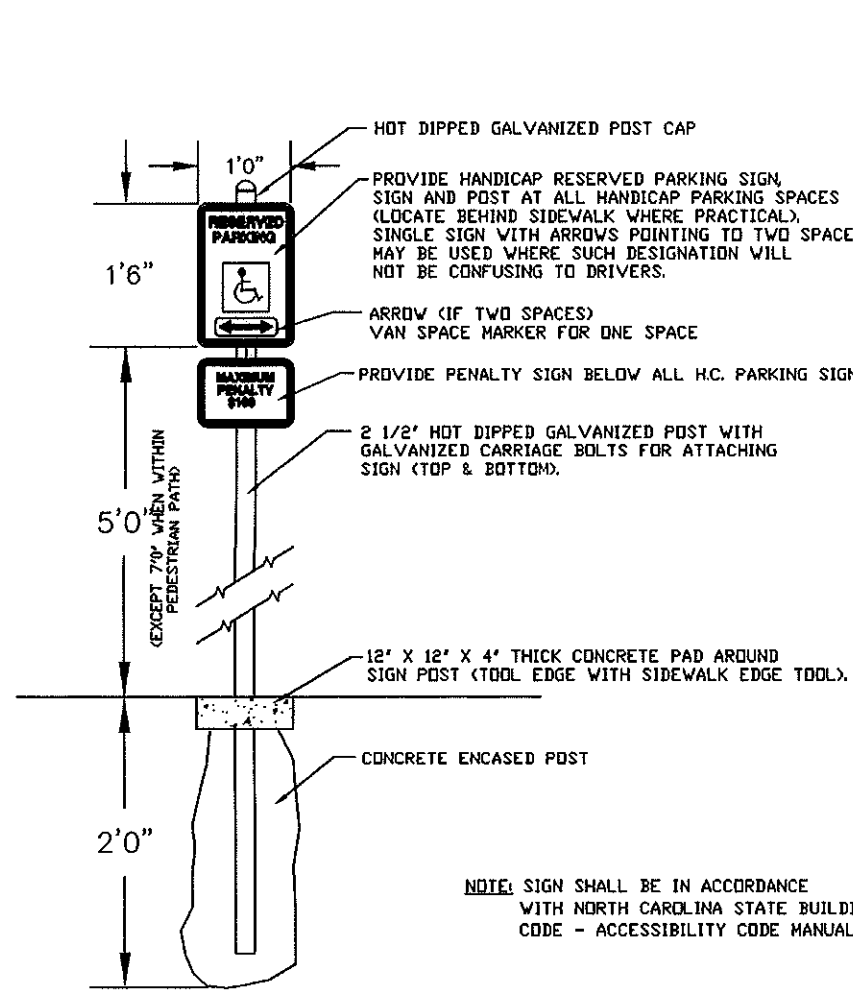
HANDICAP RAMP DETAIL
NOT TO SCALE



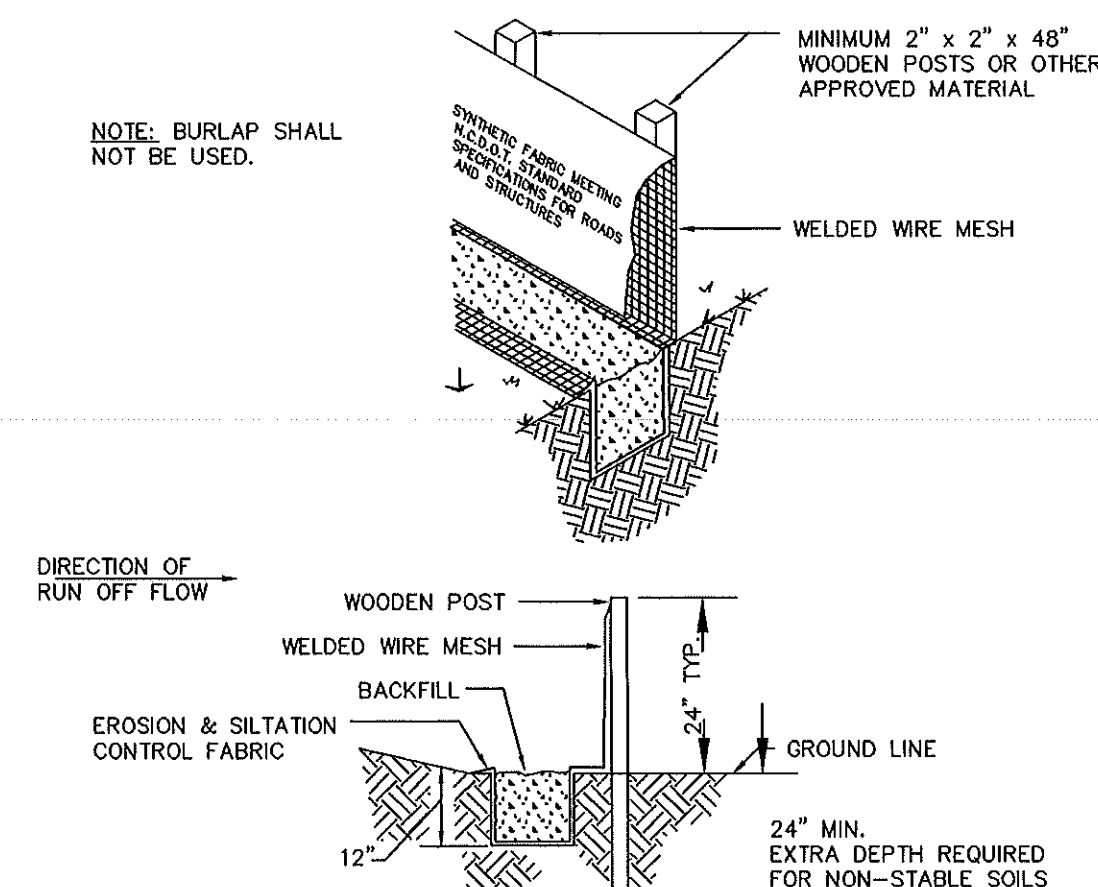
SIDEWALK JOINT DETAIL
NOT TO SCALE



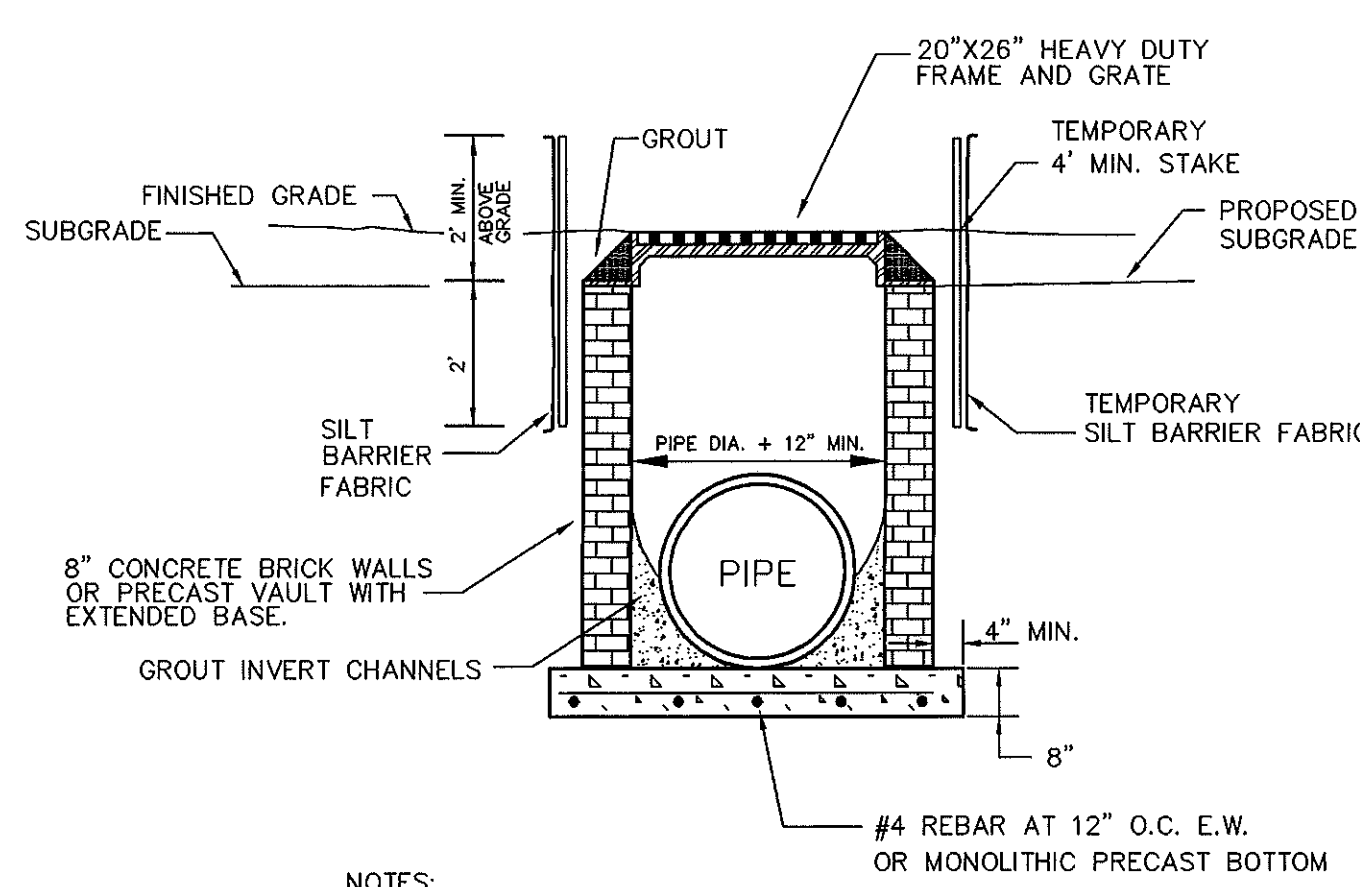
CONCRETE CURB OUTLET AND SIDEWALK
NO SCALE



HANDICAP PARKING SIGN DETAIL
NOT TO SCALE

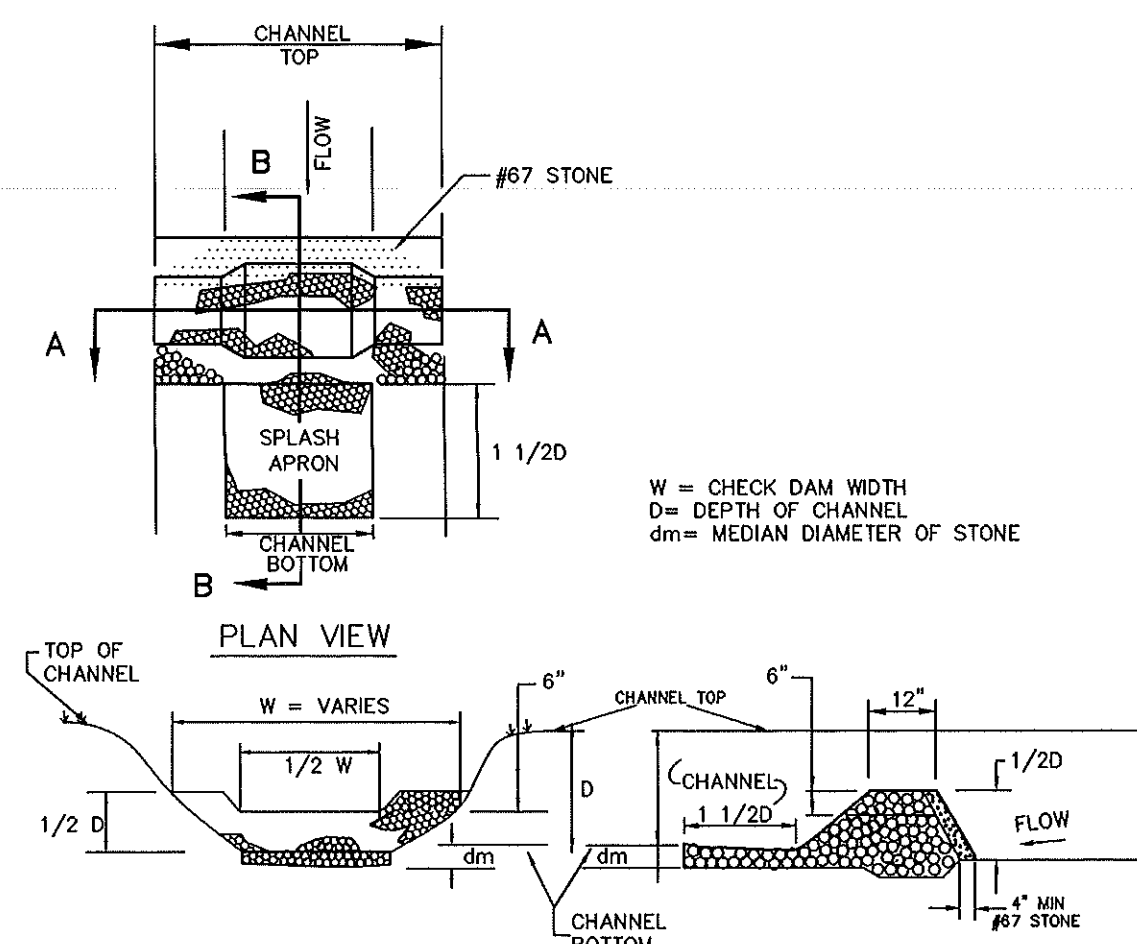


TYPICAL INSTALLATION OF SILT FENCE
NOT TO SCALE

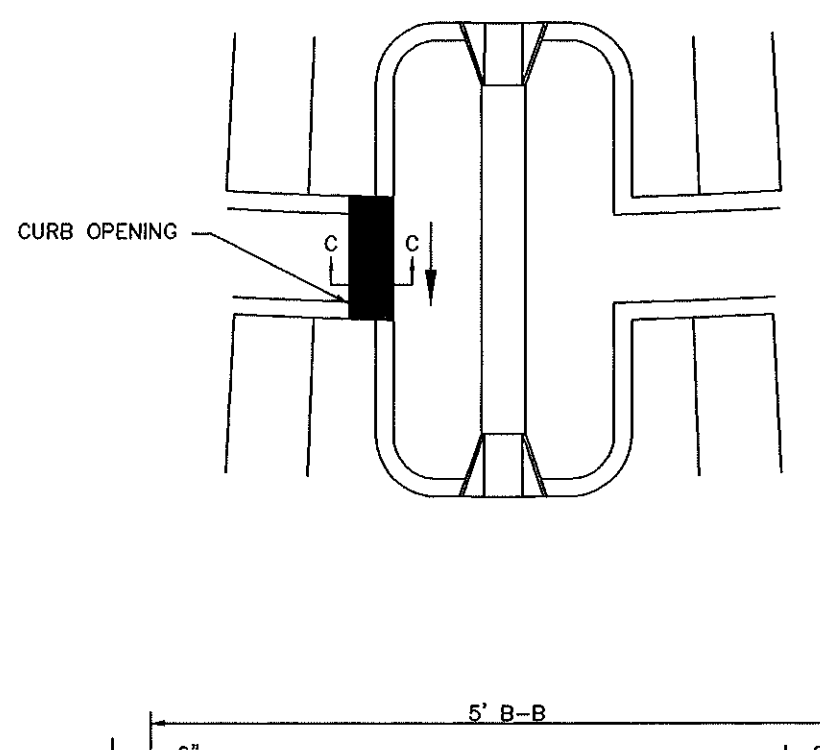


- NOTES:
- BOX TO BE IN ACCORDANCE WITH NC DOT STANDARDS. BOX TO BE ENLARGED TO ACCOMMODATE LARGER OR MULTIPLE PIPES AS REQUIRED.
 - FRAME AND GRATE TO BE DEWEY BROTHERS INC. CH-BN-18 OR APPROVED EQUAL.
 - SILT BARRIER FABRIC TO BE SYNTHETIC FABRIC MEETING N.C. D.O.T. STANDARDS FOR SHOULDER DRAINS.
 - ALL SEDIMENT, WET, MUCKY, OR YIELDING SOIL MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL PRIOR TO PLACING BASE COURSE.

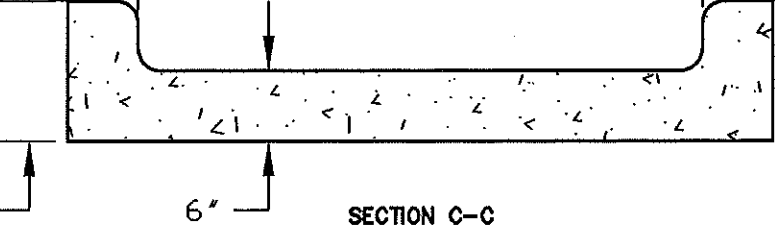
YARD INLET CATCH BASIN WITH TEMPORARY SILT FENCE
NOT TO SCALE



TEMPORARY FORTIFIED ROCK CHECK DAM
NOT TO SCALE



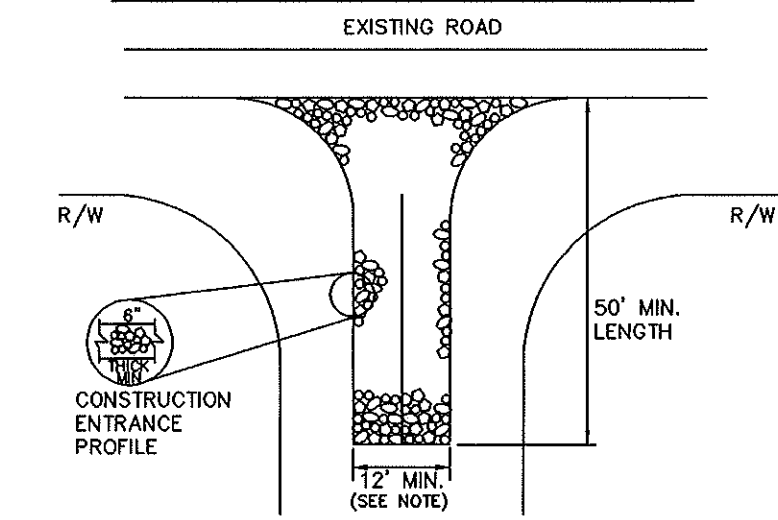
CURB OPENING DETAIL AT PARKING BAYS
NOT TO SCALE



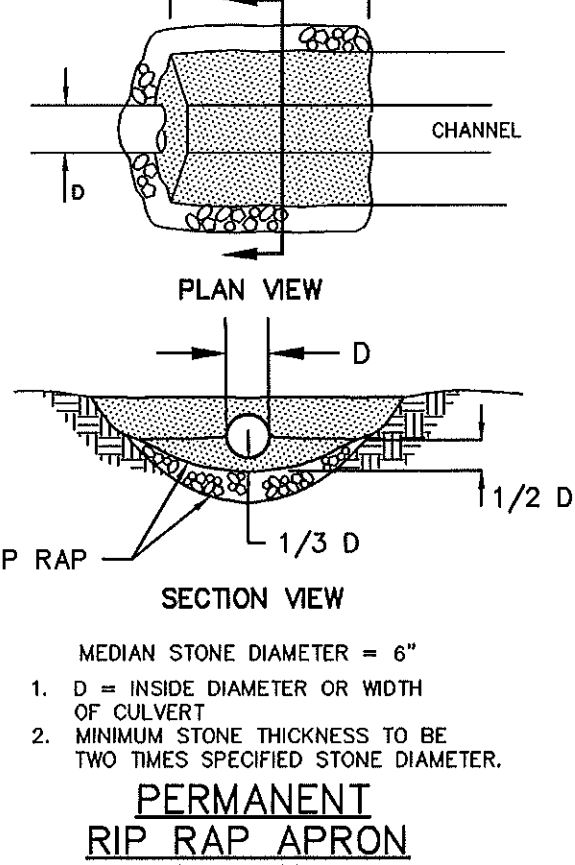
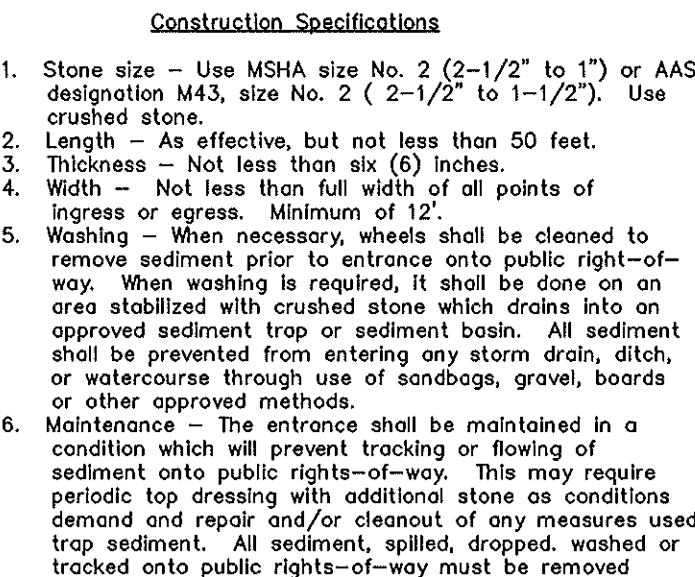
SECTION C-C

- NOTES:
- Box to be in accordance with N.C.D.O.T. STANDARDS. Box to be enlarged to accommodate larger or multiple pipes as required.
 - Dewey Brothers, Inc. CH-BN 2001 24\"/>

CURB INLET CATCH BASIN WITH TEMPORARY SILT FENCE
NOT TO SCALE

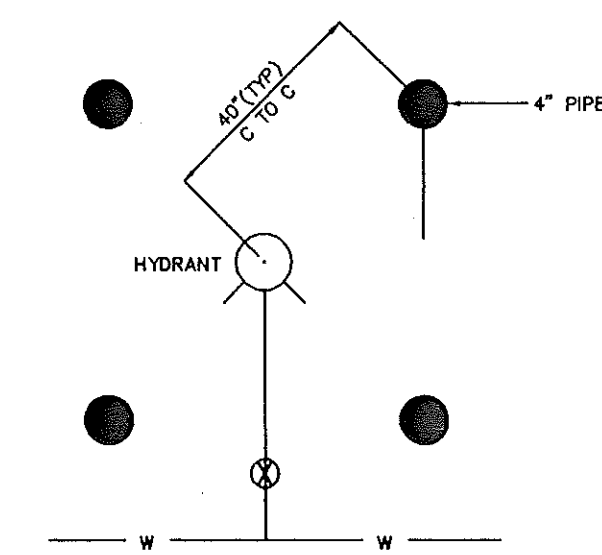


TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



PERMANENT RIP RAP APRON
NOT TO SCALE

- Construction Specifications
- Stone size - Use MSHA size No. 2 (2-1/2\"/>



MUELLER CENTURIUM MODEL
A 421 FIRE HYDRANT WITH
1-5 1/4" PUMPER NOZZLE
AND 2-1/2" HOSE NOZZLES

2'

4'

REINFORCED CONCRETE COLLAR
18" x 18" x 6"

MIN. 4" COLLAR

DEWEY BROS. VBX-TE-100
VALVE BOX OR APPROVED EQUAL

6" GATE VALVE

M.J. LOCKED HYDRA
TEE OR TREE WITH
APPROVED PIPE
RESTRAINT

M.J. LOCKED HYDRANT
ADAPTOR OR APPROVED PIPE

CONCRETE THRUST BLOCK
PLACED AGAINST
UNDISTURBED EARTH

MIN. OF 3 CUBIC FEET OF
CRUSHED STONE FOR DRAINAGE

The diagram illustrates three types of road construction cross-sections:

- OPEN TERRAIN:** Shows a cross-section with a top layer labeled "HEAPED BACKFILL, NO TAMPING" and a bottom layer labeled "EMBEDMENT ZONE".
- UNPAVED AREAS SUBJECT TO TRAFFIC:** Shows a cross-section with a top layer labeled "CRUSHED STONE OR GRAVEL BACKFILL", a middle layer labeled "MECHANICALLY COMPACTED BACKFILL, IN 6" LAYERS", and a bottom layer labeled "VARIES".
- PAVED AREAS:** Shows a cross-section with a top layer labeled "ROAD SURFACE", a middle layer labeled "PAVEMENT BASE", and a bottom layer labeled "INITIAL BACKFILL (HEIGHT VARIES WITH HAUNCHING)". Below this is a layer labeled "BEDDING (HEIGHT VARIES)" and a bottom layer labeled "FOUNDATION (IF REQUIRED, DEPTH VARIES)".

NOTE:
MIN. SLOPE THROUGH MANHOLE WILL BE CENTERLINE INVERT. MAX. DROP THROUGH MANHOLE WILL BE AS FOLLOWS
1/2" FOR 0° TO 45° CHANGE IN HORIZ. ALIGNMENT
1" FOR GREATER THAN 45° CHANGE IN HORIZ. ALIGNMENT

36" MIN.

24"

1"

VARIES 2'-8" TO 3'-0"

1'-0" TO 4'-0"

STEEL REINFORCED PLASTIC STEP

CONE

6 X 6 NO. 6 GAUGE SINGLE LINE REIN IN CENTER THIRD OF WALL ALSO TONGUE & GROOVE. GROUT

"O" RING

RISER

TAPERED LIFTING HOLE

15" MAX.

12" MIN.

1 1/4" BUTYL RESIN GASKET

DETAIL FOR MANHOLE/PIPE JOINT 15" & LARGER IN EXISTING MANHOLE

3/4" GROUT

12 1/2

GROUT

BRICK

6"

6 X 6 NO. 6 GAUGE WIRE MESH

NO. 4 REIN ROD TYP. 8" O.C.E.W.

4'-0" MIN. 8'-0" MAX.

6" 5" 48" 5" 6"

CONTRACT NO. 67

CONCRETE THRUST BLOCKING SCHEDULE												CONCRETE SCHEDULE VERTICAL BENDS		
FITTING SIZE	BLOCKING AREA (SQ. FT.)				MIN. CU. YDS. CONCRETE				MIN. CU. YDS. CONCRETE					
	TEE	90'	45'	22 1/2'	TEE	90'	45'	22 1/2'	90'	45'	22 1/2'			
4"	0.8	1.2	0.7	0.3	0.13	0.13	0.13	0.13	0.7	0.4	0.3			
6"	1.9	2.7	1.5	0.8	0.13	0.13	0.13	0.13	1.3	0.9	0.5			
8"	3.3	4.8	2.5	1.3	0.13	0.13	0.13	0.13	2.5	1.7	0.9			
10"	5.2	7.3	4.0	2.0	0.13	0.13	0.13	0.13	2.5	2.8	1.5			
12"	7.8	10.8	5.9	2.9	0.3	0.4	0.3	0.13	5.6	4.0	2.1			
16"	13.3	18.9	10.2	5.2	0.5	0.9	0.4	0.13	9.8	7.1	3.7			
18"	22.5	32.8	17.3	8.9										

Profile view of the proposed 12-inch diameter sanitary sewer line. The profile shows the sewer line with three segments: 213 L.F. @ 0.40% slope, 387 L.F. @ 0.40% slope, and 362 L.F. @ 0.40% slope. The line starts at station 8+00 and ends at station 17+25. The profile includes manholes at stations 9+76, 13+63, and 17+25. The existing ground is shown as a dashed line, and the sewer line is shown as a solid line. The profile also shows the existing design 8-inch S.S. stub-out from the existing design sewage pumping station.

1/15/96
date

DISK NAME: ACAD 272E
FILE NAME: HMS_DET1.DWG ZLF
JOB NO.: C951020-G1853B

THE SMITH SINNETT
ASSOCIATES, P.A.

Architects • Planners

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919-781-8582



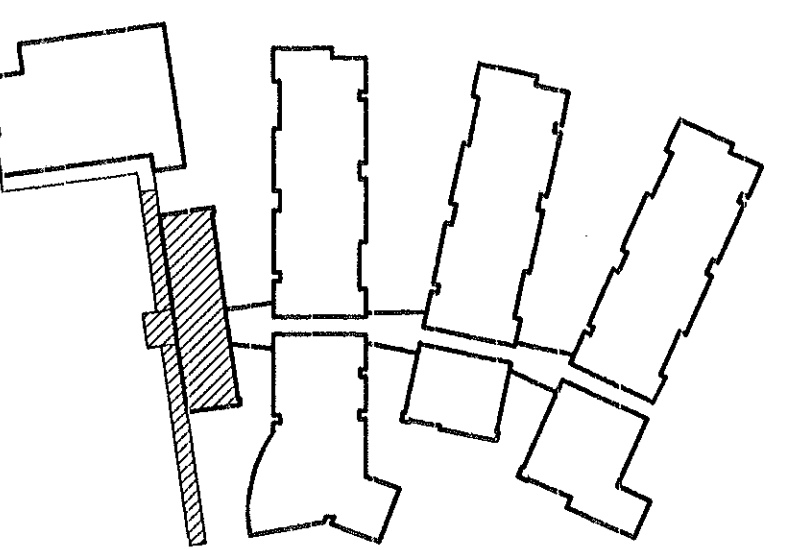
consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer:
drawn by: RNL
checked by: AN

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no.	description	date
Revisions		



New Havelock
Middle School

Craven County
North Carolina

project title

ADMINISTRATION WING 100
FOUNDATION & ROOF FRAMING PLAN

sheet title

scale:

9502.00

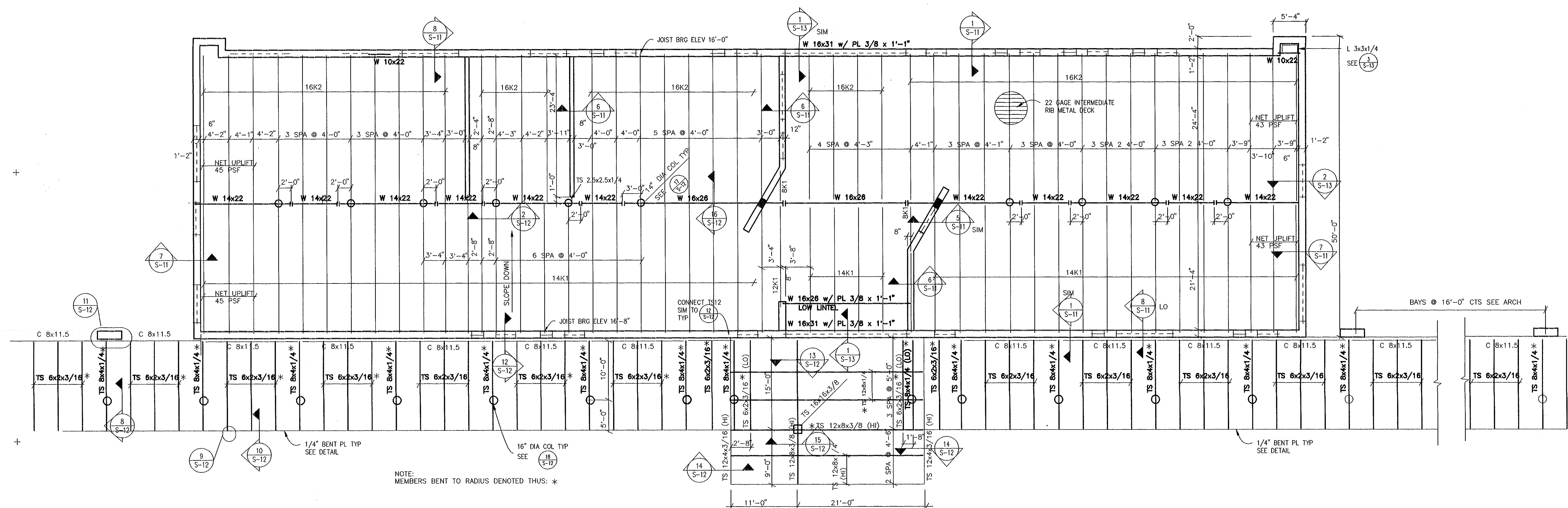
project no.

sheet no. S-1 of 16

1/15/96
date

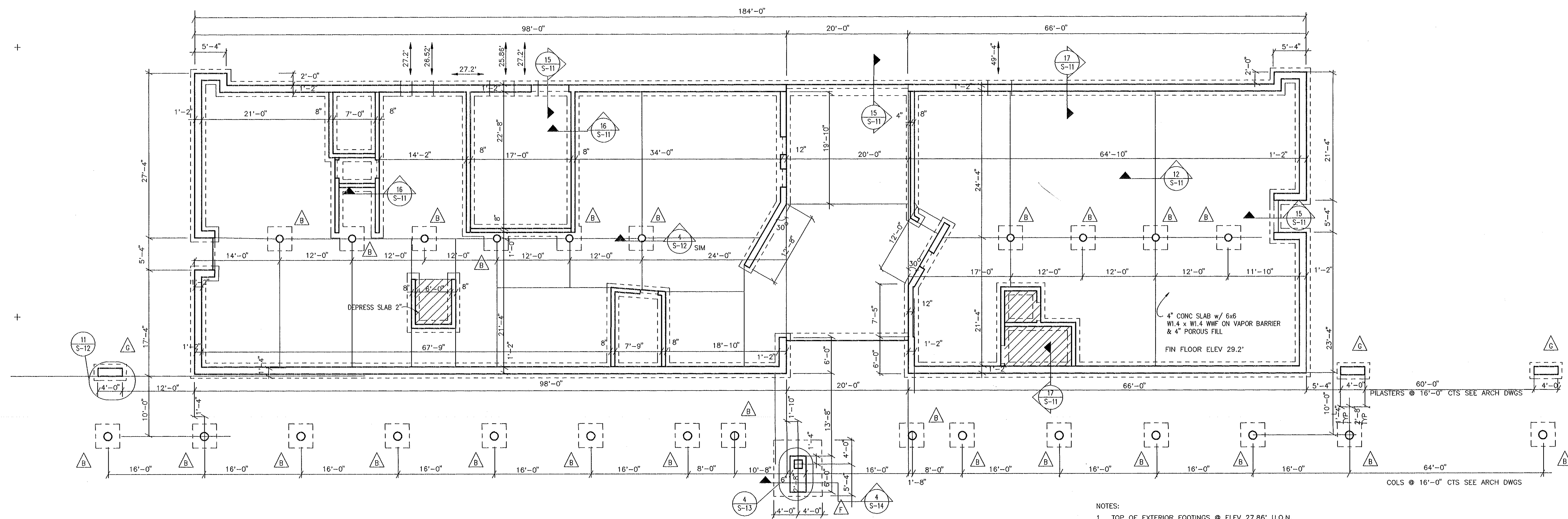
sheet no. S-1

released for construction



2 ADMINISTRATIVE BUILDING ROOF FRAMING PLAN
S-1 1/8" = 1'-0"

NOTES:
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 35 PSF U.O.N.



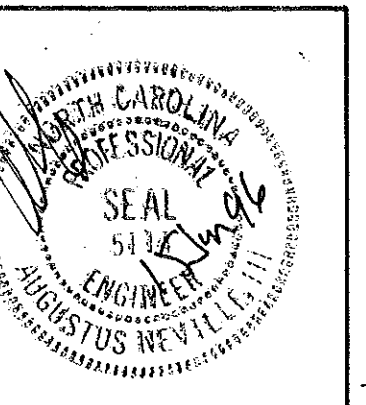
1 ADMINISTRATIVE BUILDING FOUNDATION PLAN
S-1 1/8" = 1'-0"

NOTES:
1. TOP OF EXTERIOR FOOTINGS @ ELEV 27.86' U.O.N.
2. TOP OF INTERIOR FOOTINGS @ ELEV 28.52' U.O.N.
3. FOOTING ELEVATIONS DENOTED THUS: 26.52'

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Suite 3C
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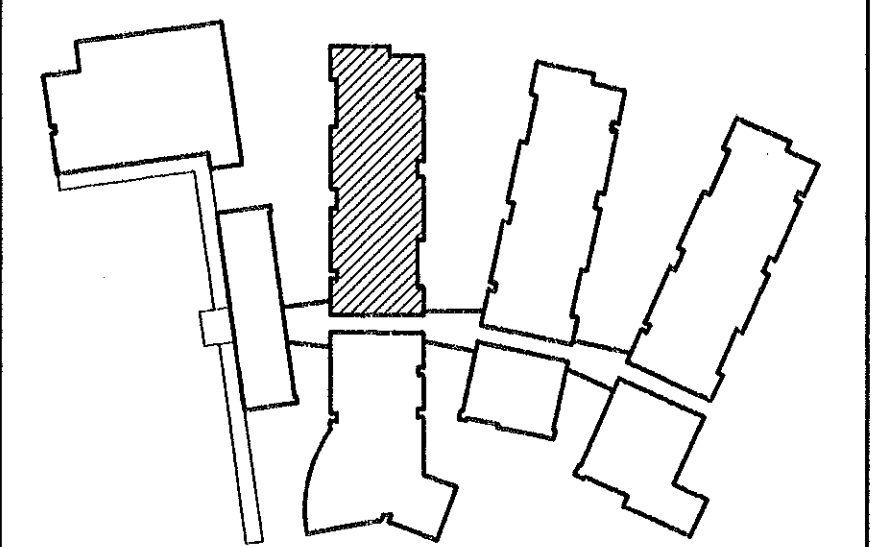


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by:

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no.	description	date
1	Revisions	



New Havelock
Middle School

Craven County
North Carolina

project title

WING 200
FOUNDATION & ROOF FRAMING PLAN

sheet title

scale:

9502.00

project no.

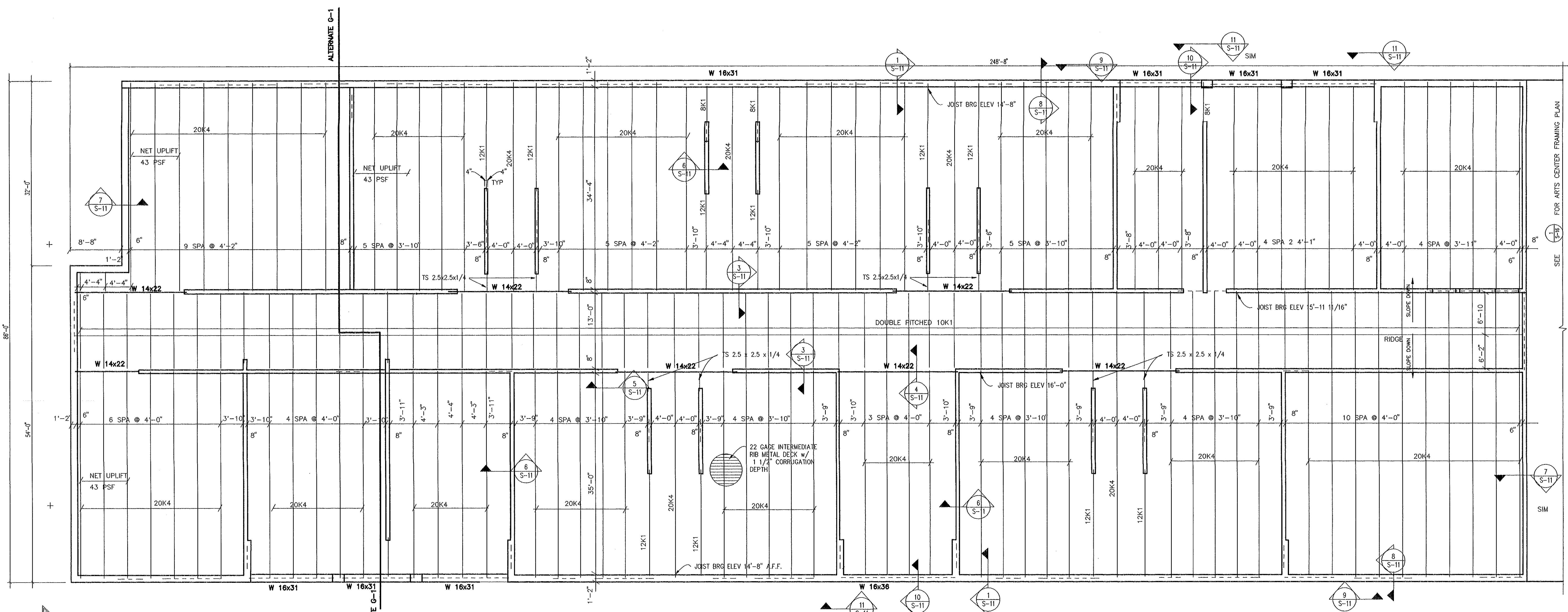
sheet no. S-2 of 17

1/15/96

date

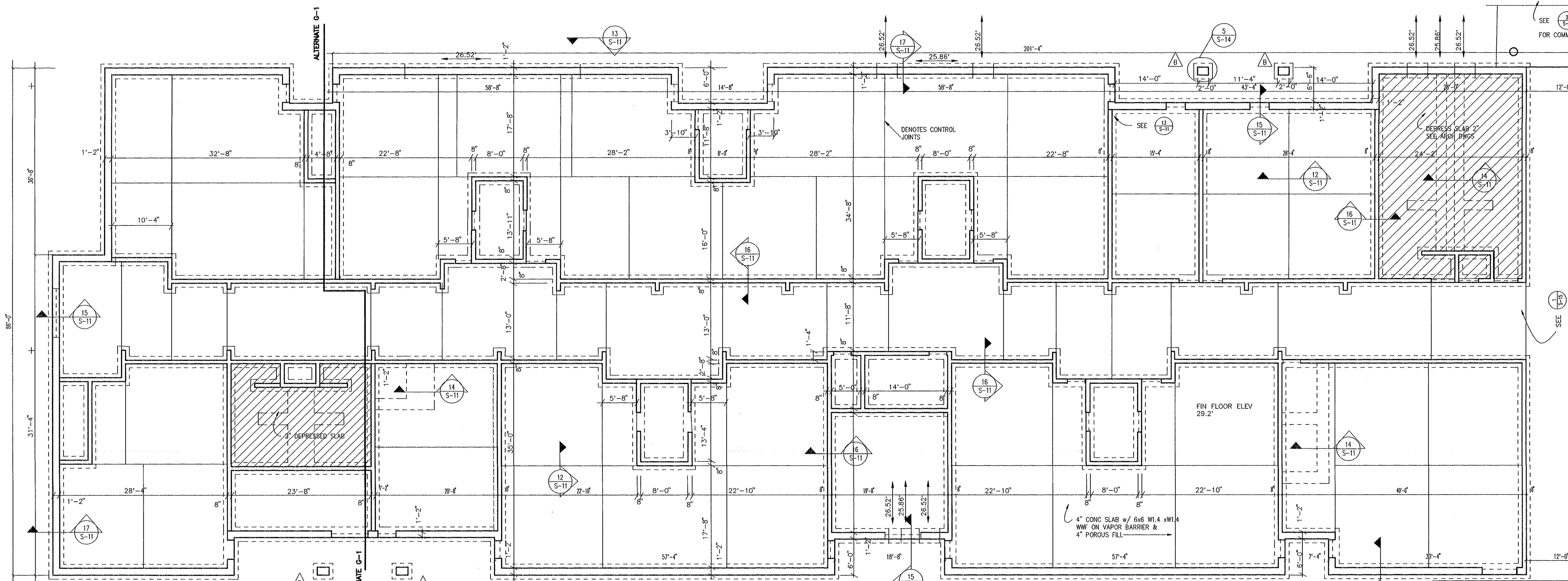
sheet no. S-2

released for construction



2 ROOF FRAMING PLAN - BUILDING 200
S-2 1/8" = 1'-0"

NOTES:
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 35 PSF U.O.N.



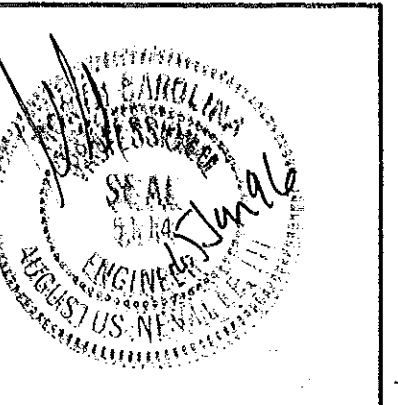
1 FOUNDATION PLAN - BUILDING 200
S-2 1/8" = 1'-0"

NOTES:
1. TOP OF EXTERIOR WALL FOOTINGS 27.86' U.O.N.
2. TOP OF INTERIOR WALL FOOTINGS 28.52' U.O.N.
3. TOP OF FOOTING ELEVATION DENOTED THUS
4. SEE ARCH DRAWINGS FOR ADDITIONAL DIMENSIONS.

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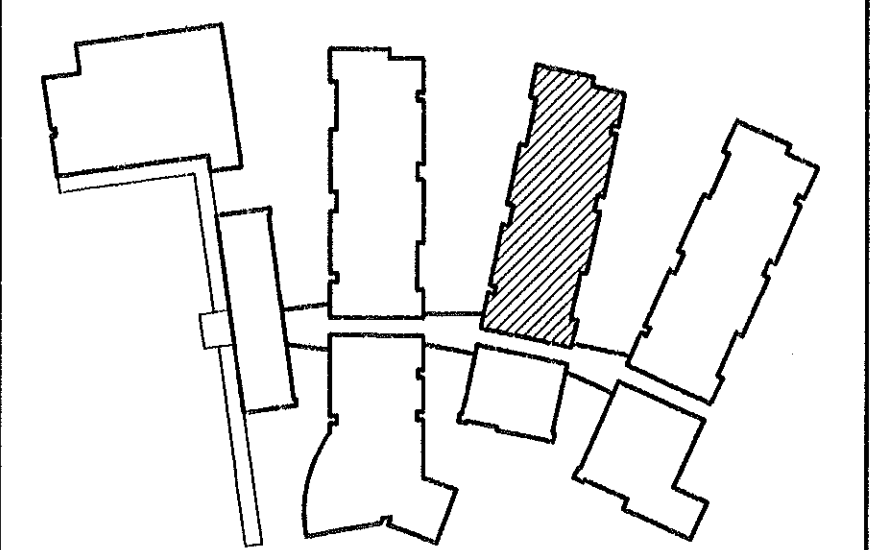


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by:

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1	Revisions	



New Havelock
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Craven County
North Carolina

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WING 200
FOUNDATION & ROOF FRAMING PLAN

sheet title

9502.00

project no.

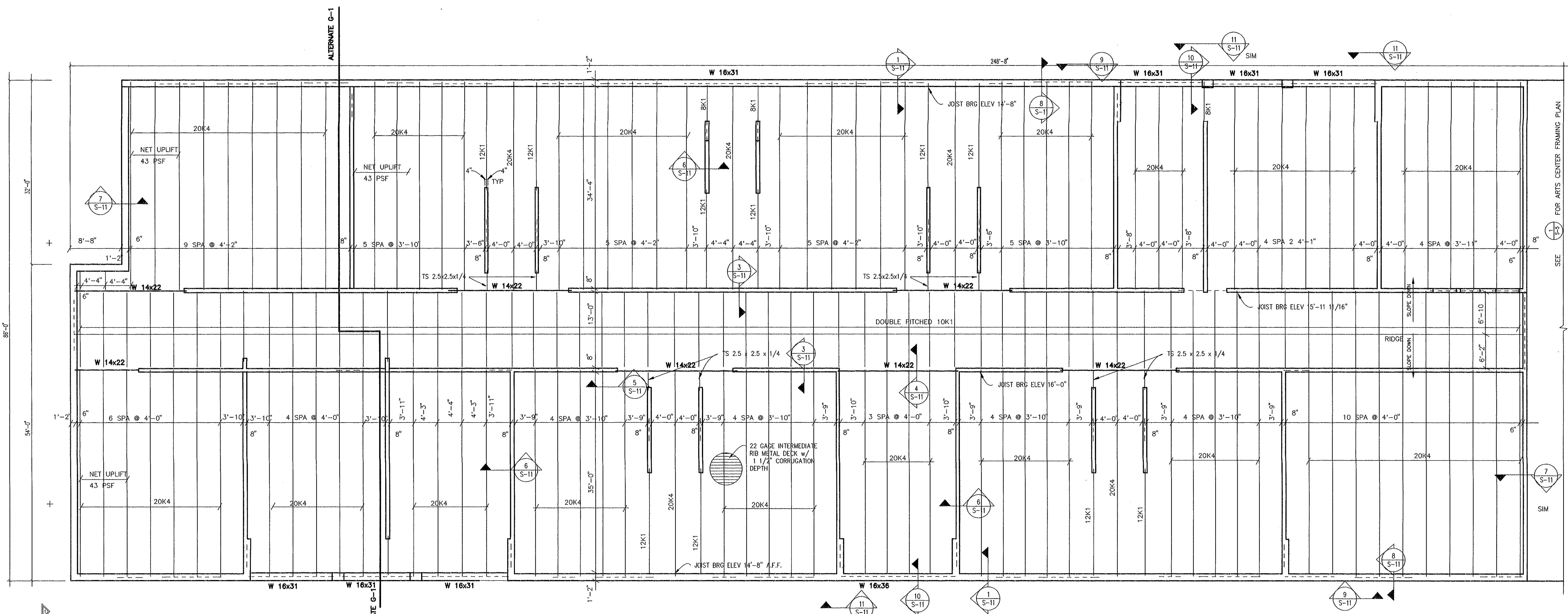
1/15/96

date

sheet no. S-3

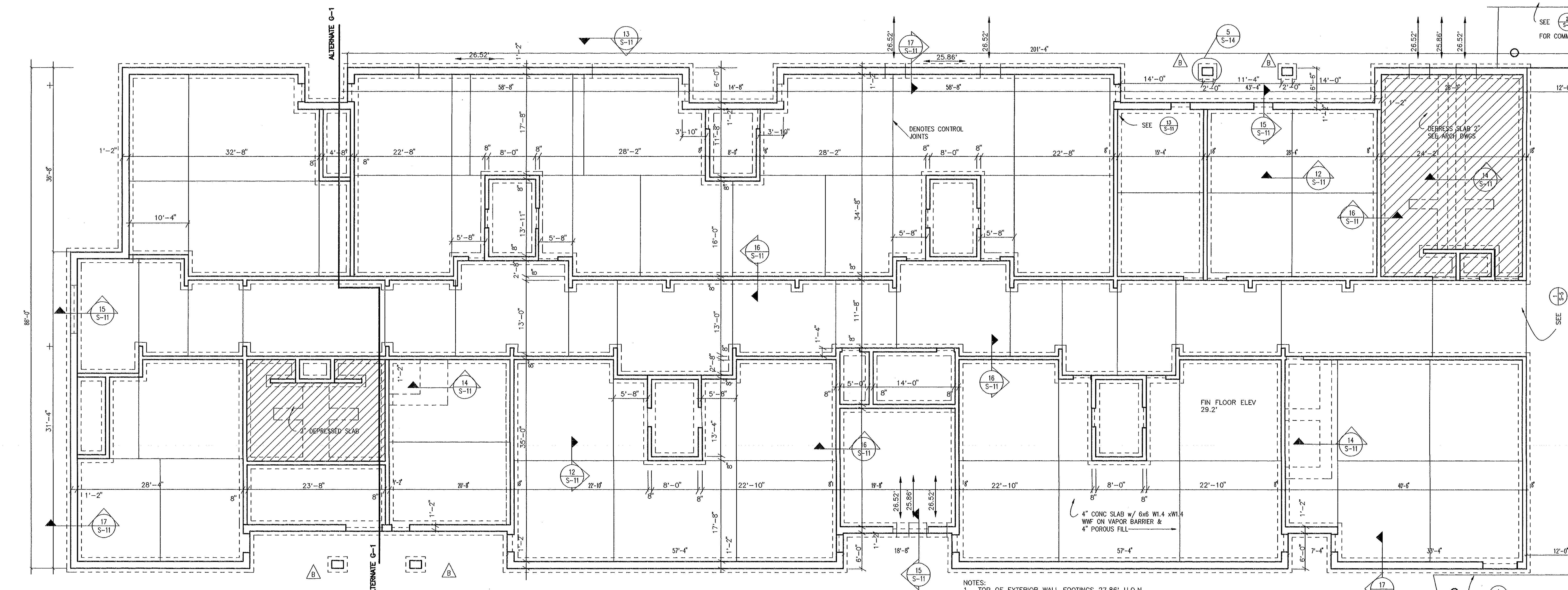
of: 17

released for construction



2 ROOF FRAMING PLAN - BUILDING 300
S-3 1/8" = 1'-0"

NOTES:
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 35 PSF U.O.N.



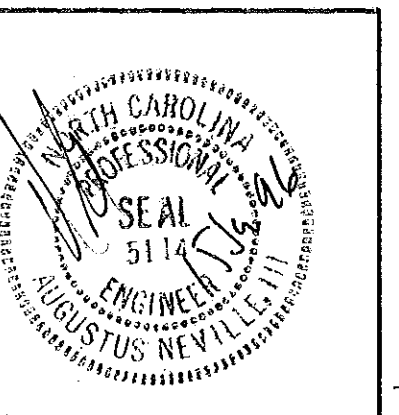
1 FOUNDATION PLAN - BUILDING 300
S-3 1/8" = 1'-0"

NOTES:
1. TOP OF EXTERIOR WALL FOOTINGS 27.85' U.O.N.
2. TOP OF INTERIOR WALL FOOTINGS 28.52' U.O.N.
3. TOP OF FOOTING ELEVATION DENOTED THUS
4. SEE ARCH DRAWINGS FOR ADDITIONAL DIMENSIONS.

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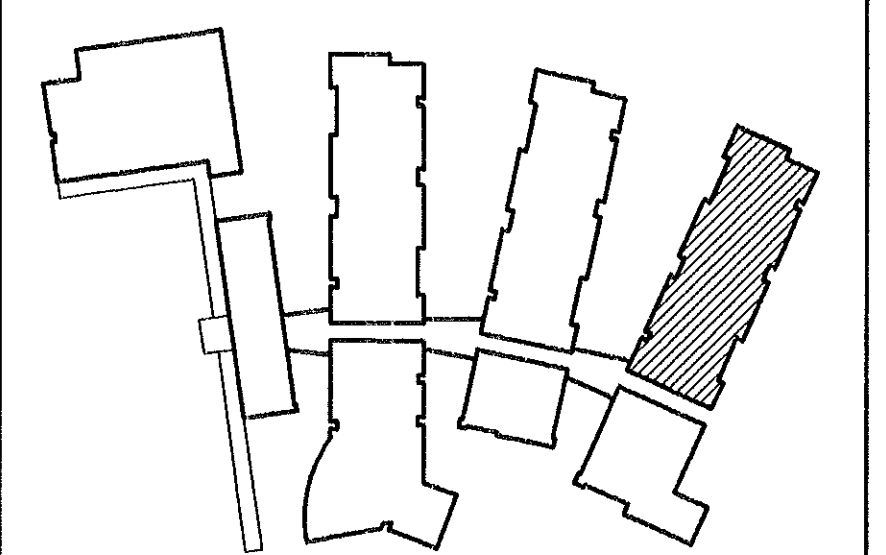


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer:
drawn by: RNL
checked by: AN

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no.	description	date
Revisions		



New Havelock
Middle School

Craven County
North Carolina

project title

WING 200
FOUNDATION & ROOF FRAMING PLAN

sheet title

scale:

9502.00
project no.

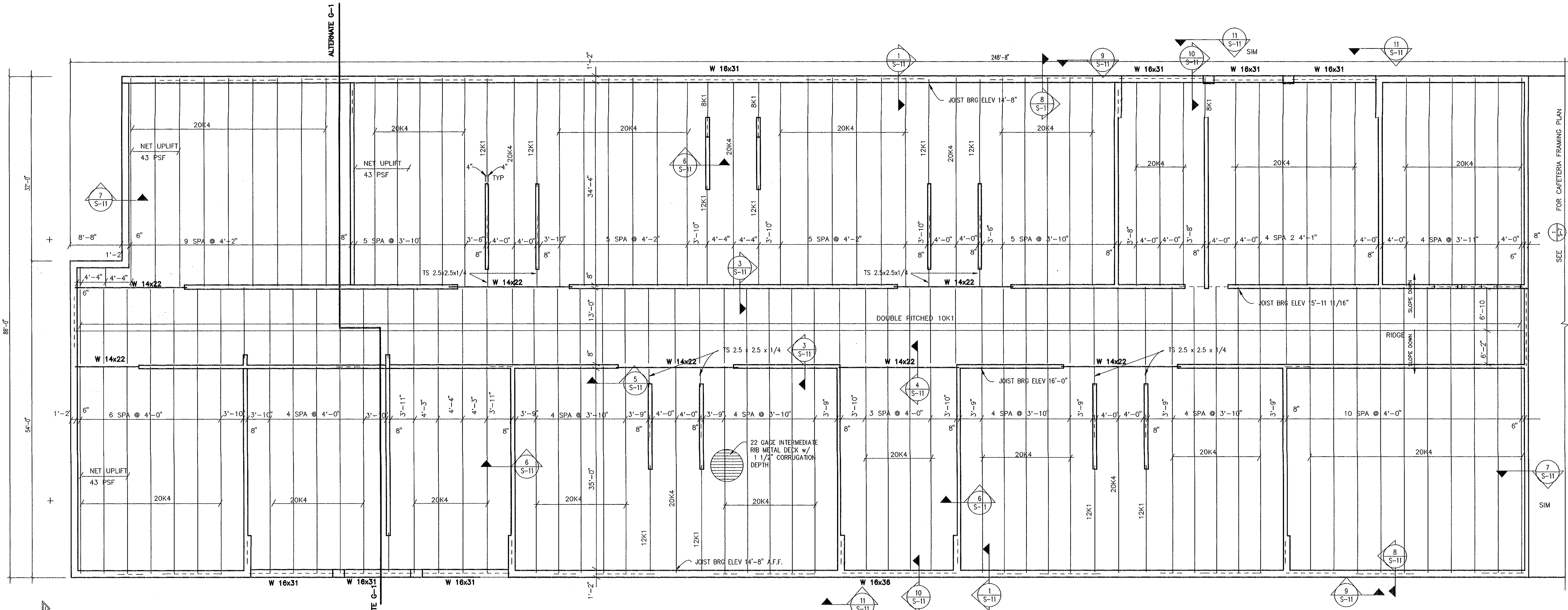
sheet no. S-4 of 17

1/15/96
date

sheet no.

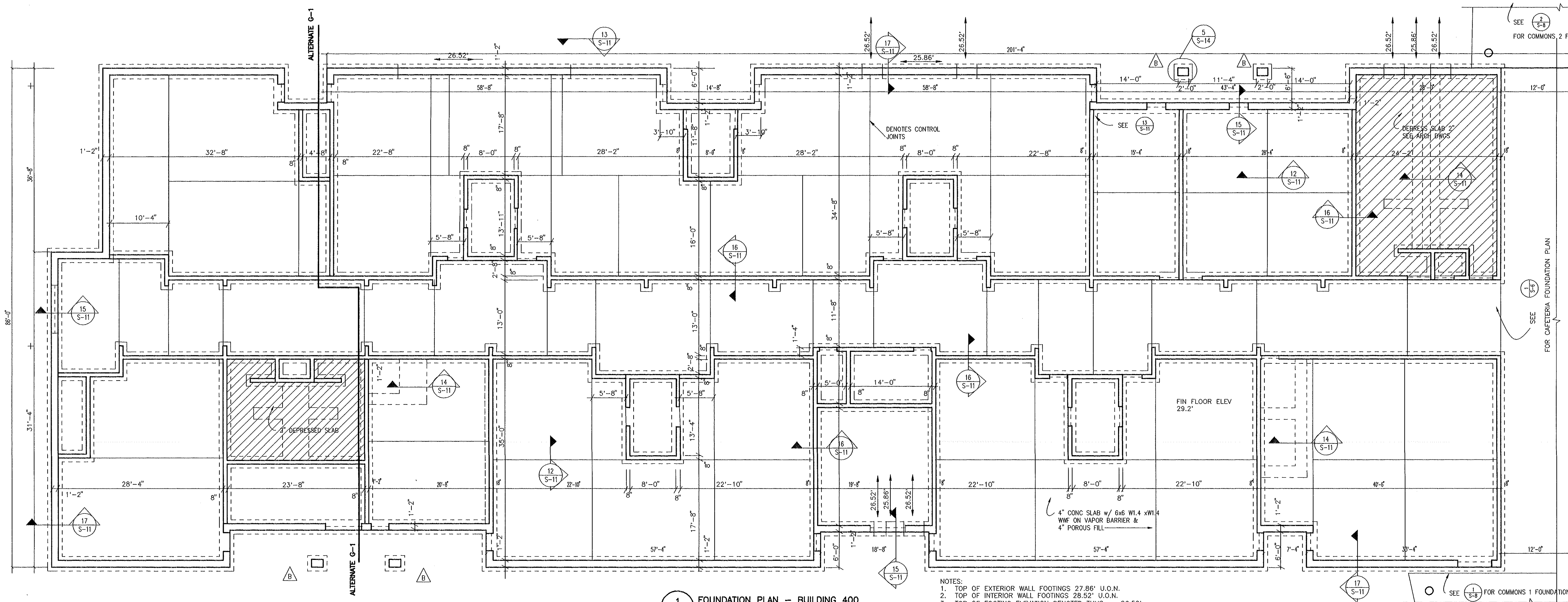
S-4

released for construction



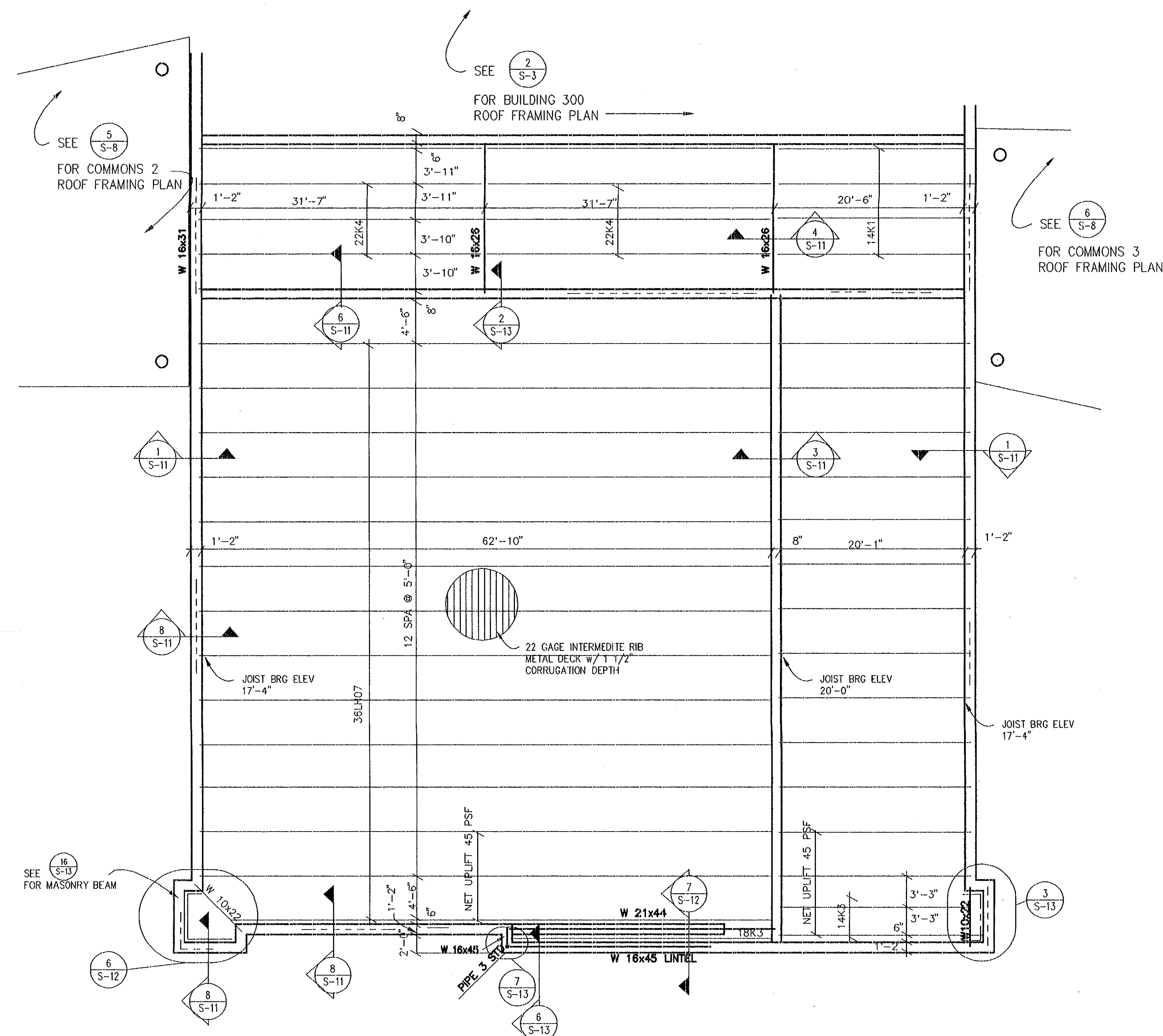
2 ROOF FRAMING PLAN - BUILDING 400
1/8" = 1'-0"

NOTES:
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 35 PSF U.O.N.



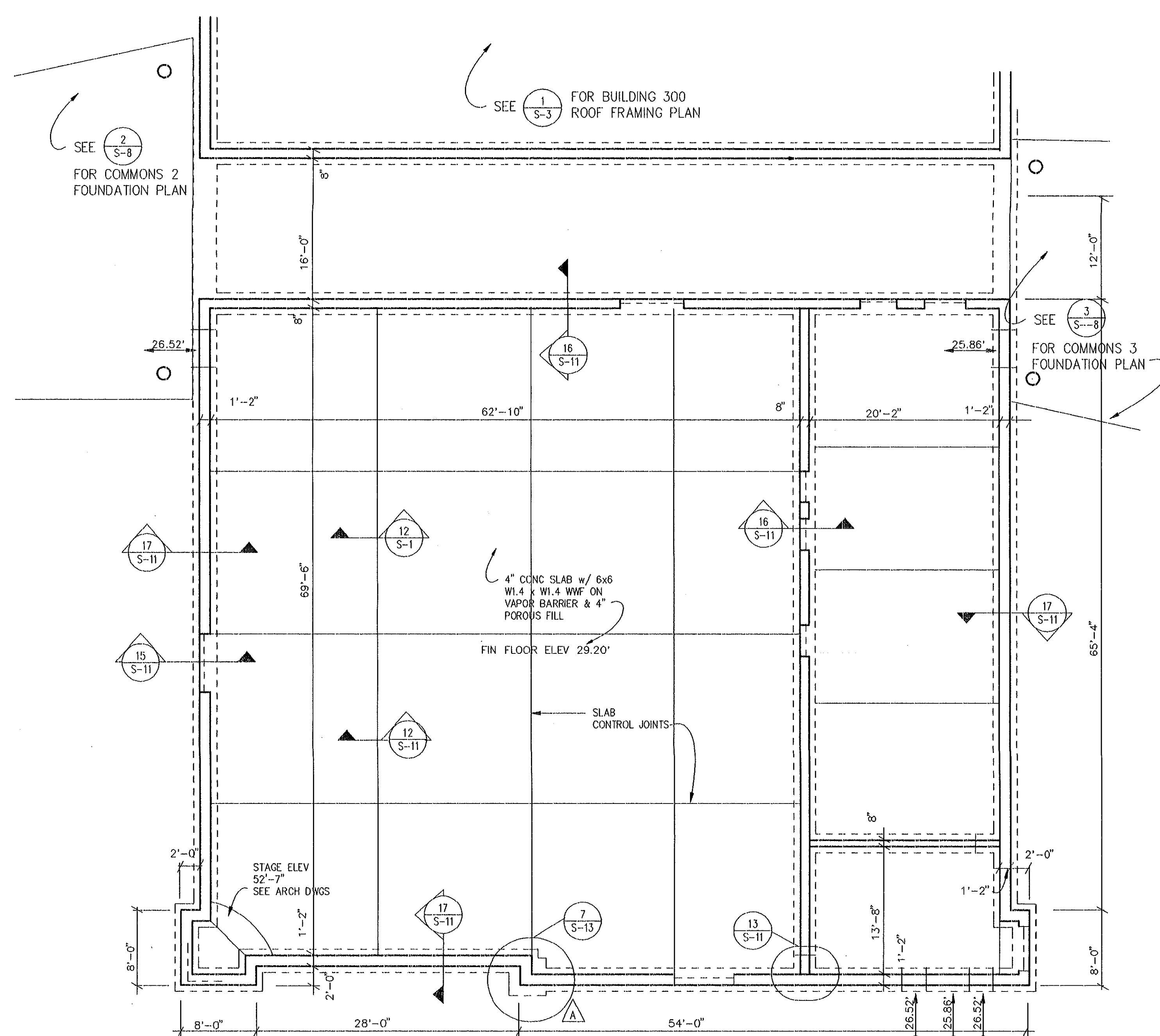
1 FOUNDATION PLAN - BUILDING 400
1/8" = 1'-0"

NOTES:
1. TOP OF EXTERIOR WALL FOOTINGS 27.86' U.O.N.
2. TOP OF INTERIOR WALL FOOTINGS 28.52' U.O.N.
3. TOP OF FOOTING ELEVATION DENOTED THUS 26.52'
4. SEE ARCH DRAWINGS FOR ADDITIONAL DIMENSIONS.



2 MEDIA CENTER ROOF FRAMING PLAN

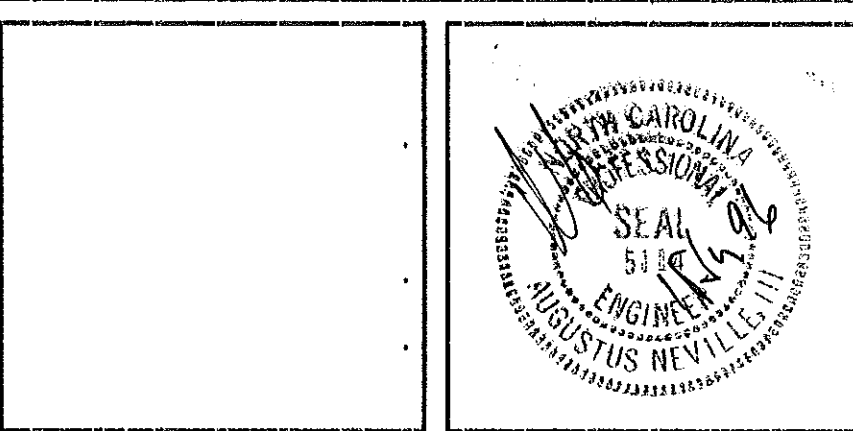
NOTE:
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 37 PSF U.O.N.



4 MEDIA CENTER ROOF FRAMING PLAN

NOTES:
1. TOP OF EXTERIOR FOOTINGS @ ELEV 27.86' U.O.N.
2. TOP OF INTERIOR FOOTINGS @ ELEV 28.52' U.O.N.
3. FOOTING ELEVATIONS DENOTED THUS: 26.52'

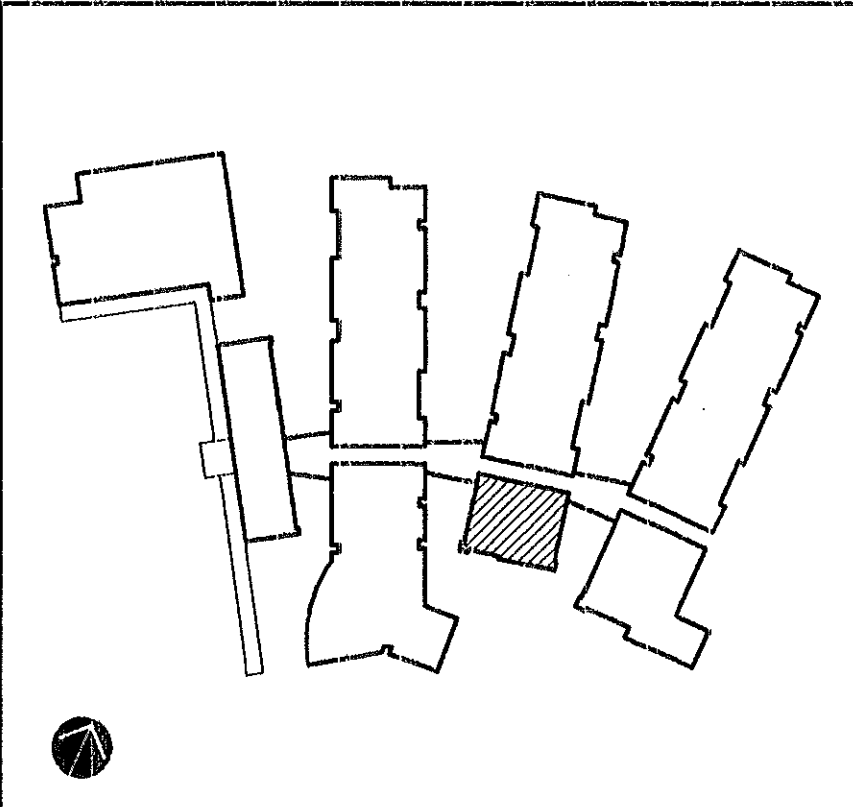
THE SMITH SINNETT
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4601 Lake Boone Trail
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Raleigh, N.C. 27607
919-781-8582



Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by: AN

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no.	description	date
1	Revisions	



New Havelock
Middle School
Craven County
North Carolina

ARTS & MEDIA CENTER
FOUNDATION & ROOF FRAMING PLAN
sheet title: 9502.00
project no.: 1/15/96
date: 1/15/96
sheet no.: S-5
of: 14

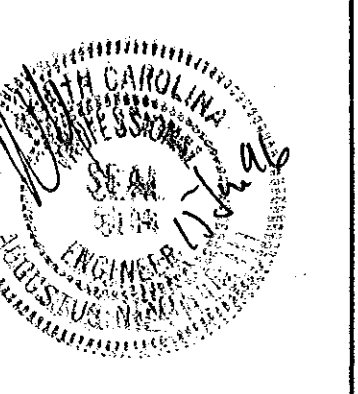
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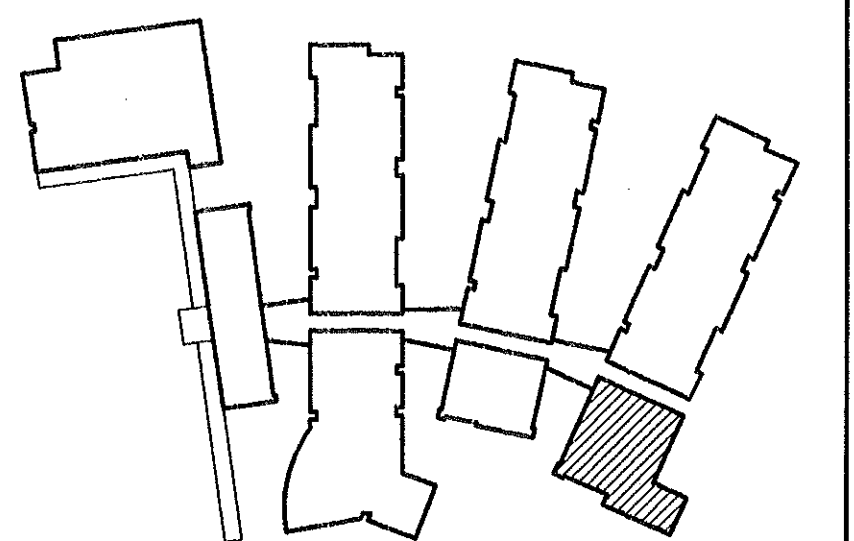
consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by:

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no. description date

Revisions



New Havelock
Middle School

Craven County
North Carolina

project title

CAFETERIA
FOUNDATION PLAN

sheet title

scale:

9502.00

project no.

sheet no. S-6 of 17

1/15/96

date

sheet no. S-6

released for construction

FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING EACH WAY
A	3'-0" x 3'-0"	12"	4 - #4
B	4'-0" x 4'-0"	12"	6 - #4
C	5'-0" x 5'-0"	12"	6 - #5
D	6'-0" x 6'-0"	18"	9 - #5
E	7'-0" x 7'-0"	18"	10 - #5
F	8'-0" x 8'-0"	2'-0"	SEE S-17
G	3'-0" x 5'-0"	12"	4 - #5 x 4'-6" 6 - #4 x 2'-6"

GENERAL NOTES:

- A. DESIGN LIVE LOADS
ROOF - 20 PSF
WIND - 100 MPH
- B. MATERIALS
SOIL BEARING PRESSURE - 2000 PSF
CONCRETE - 3000 PSI
REINFORCING STEEL - ASTM A615, GRADE 60
WIRE FABRIC - ASTM A185
STRUCTURAL STEEL - ASTM A36
STRUCTURAL BOLTS - ASTM A325X, 3/4" DIA
ROOF DECK - 22 GAGE, INTERMEDIATE RIB
STEEL JOIST - K SERIES
- C. EXECUTION
FOOTINGS ARE TO BE PLACED ON NATURAL SOIL OR ENGINEERED FILL. DETAILS, WORKMANSHIP, AND PORCURE OF CONCRETE PLACEMENT SHALL CONFORM TO ACI-301, ACI-315, & ACI-318.
STEEL WORK SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN".
JOIST BRIDGING TO MEET SJI STANDARDS.
PROVIDE ONE LINE OF BOTTOM CHORD BRIDGING AT EACH END OF EACH JOIST.

SEISMIC DESIGN CRITERIA

Av - 0.050
Ao - 0.050

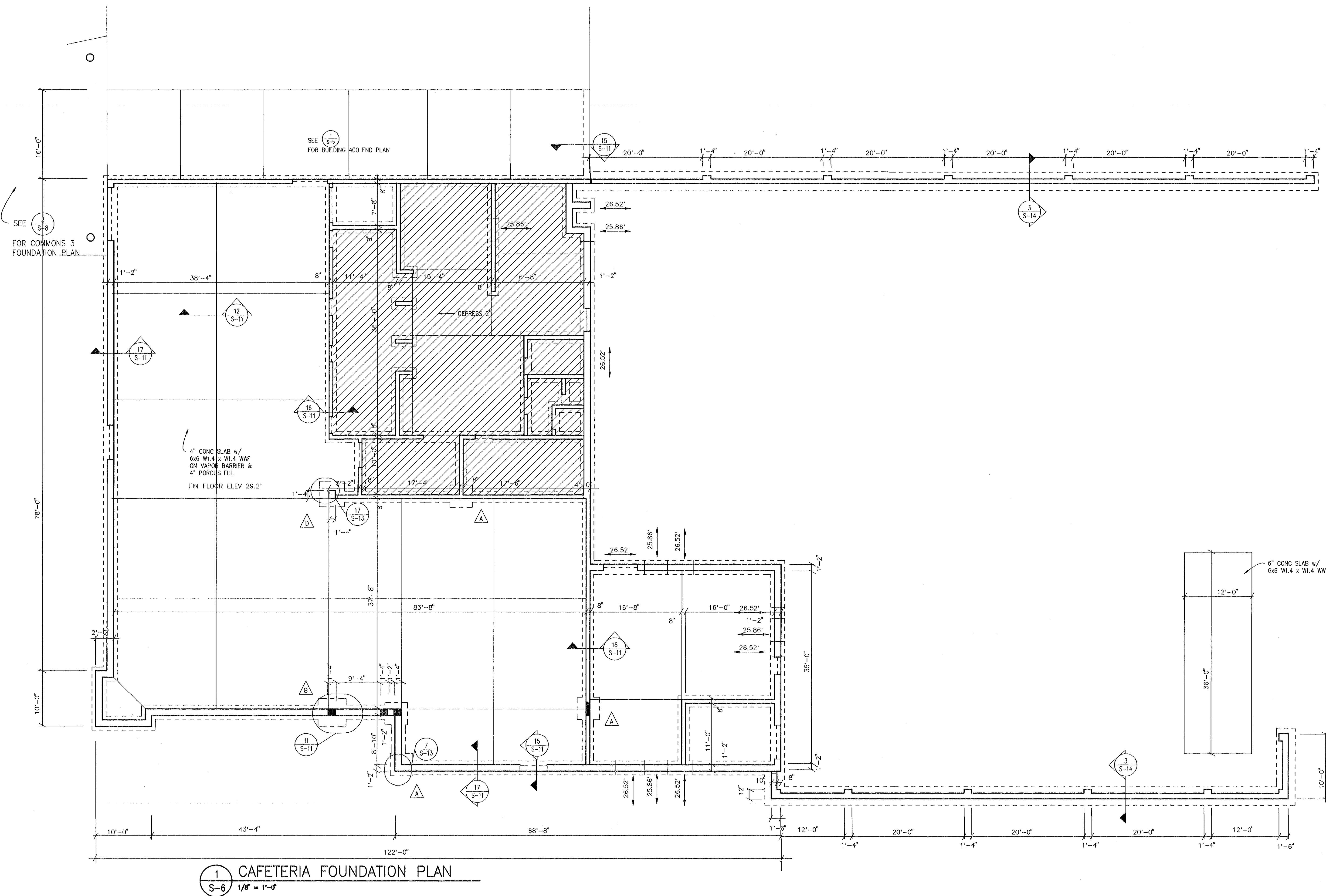
SEISMIC HAZARD EXPOSURE GROUP
GYM, CAFETERIA, DANCE/DRAMA AUDITORIUM - GROUP II
ALL OTHER BUILDINGS - GROUP I

SEISMIC PERFORMANCE CATEGORY
GYM, CAFETERIA, DANCE/DRAMA AUDITORIUM - IIA
ALL OTHER BUILDINGS - 1A

SOIL TYPE - S1

BASIC STRUCTURAL & SEISMIC RESISTING SYSTEM
ARE MASONRY BEATING WALLS AND REINFORCED MASONRY SHEAR WALLS
R = 3 1/2
Cd = 3

BUILDING ANALYZED USING EQUIVALENT LATERAL FORCE PROCEDURE



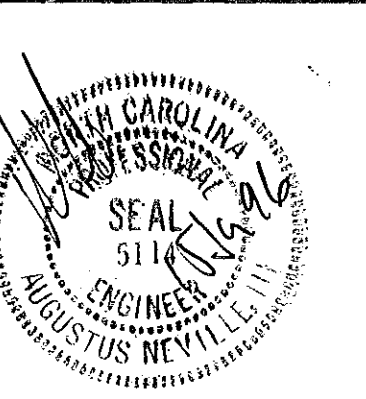
1 CAFETERIA FOUNDATION PLAN
S-6 1/8" = 1'-0"

NOTES:

1. TOP OF EXTERIOR FOOTINGS @ ELEV 27.86' U.O.N.
2. TOP OF INTERIOR FOOTINGS @ ELEV 28.52' U.O.N.
3. FOOTING ELEVATIONS DENOTED THUS: 28.62'
4. REFER TO ARCH DWGS FOR ADDITIONAL DIMENSIONS.

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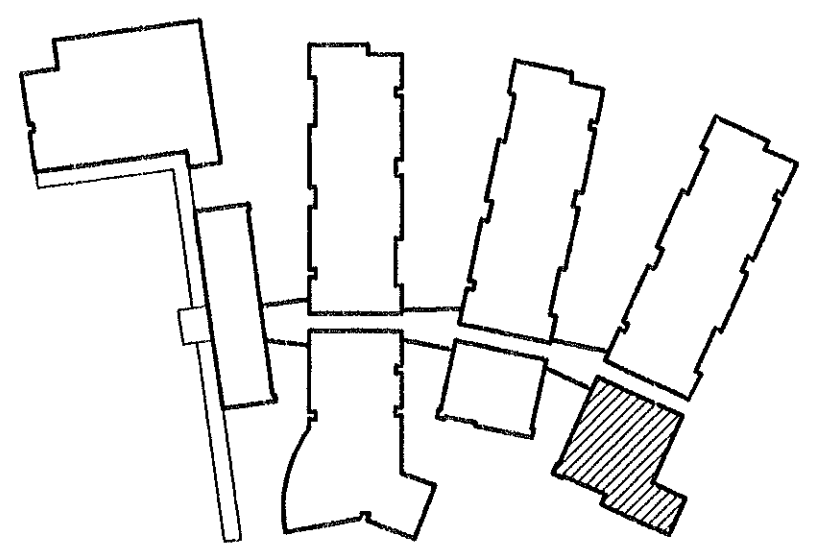


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by:

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Revisions		



New Havelock
Middle School

Craven County
North Carolina

project title

CAFETERIA
ROOF FRAMING PLAN

sheet title

scale:

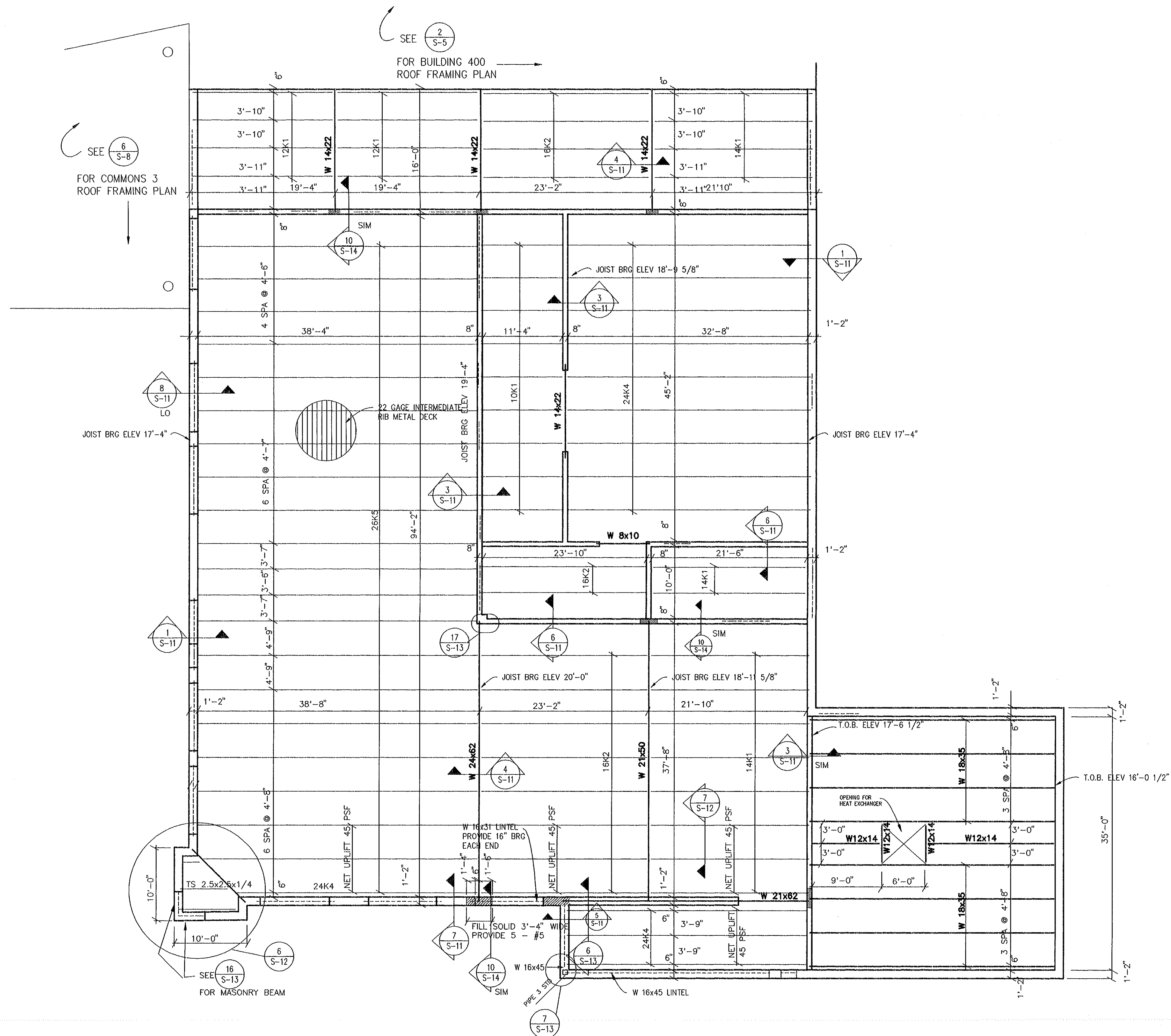
9502.00
project no.

sheet no. S-7 of: 17

1/15/96
date

sheet no. S-7

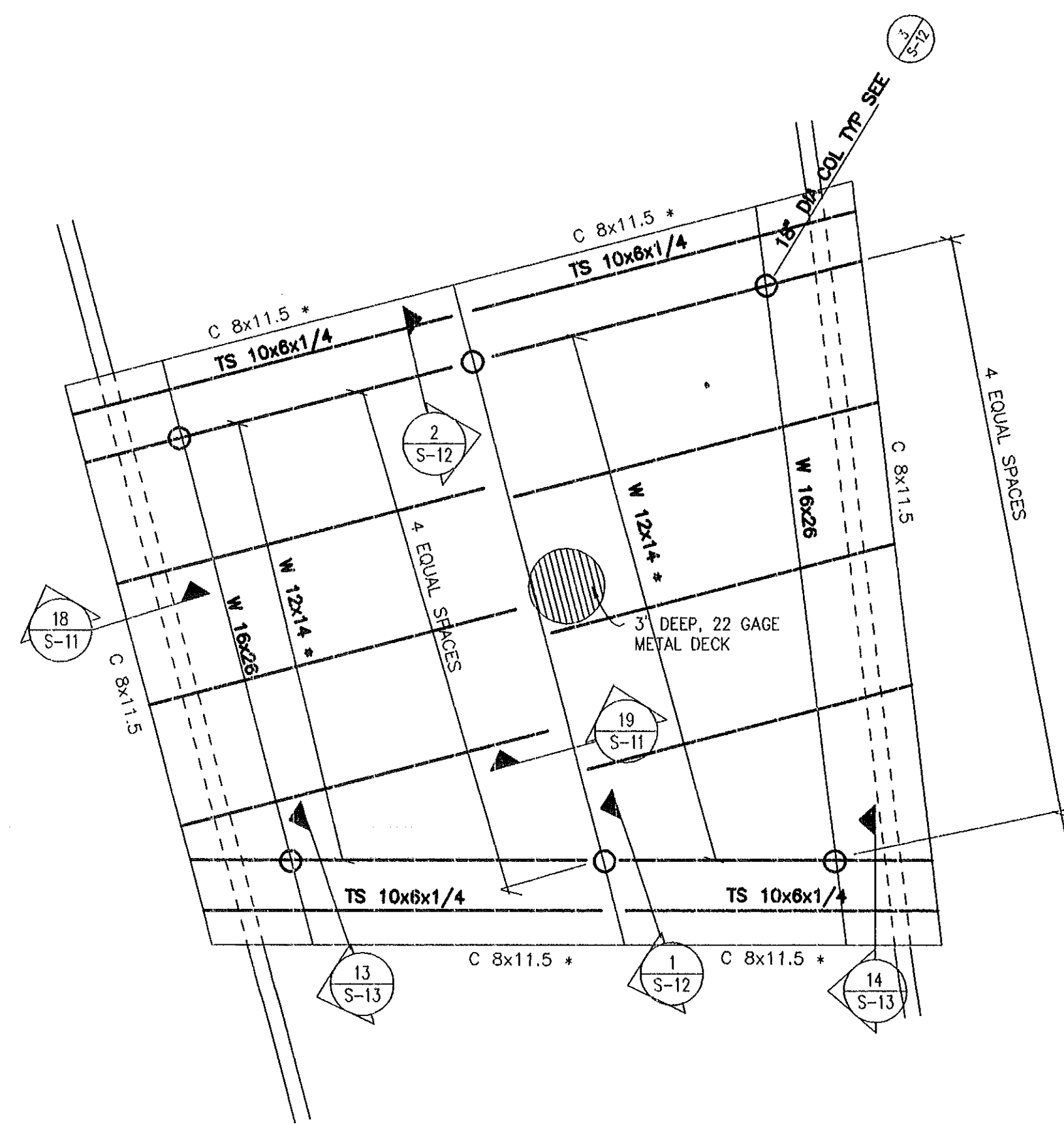
released for construction



1 CAFETERIA ROOF FRAMING PLAN
S-7 1/8" = 1'-0"

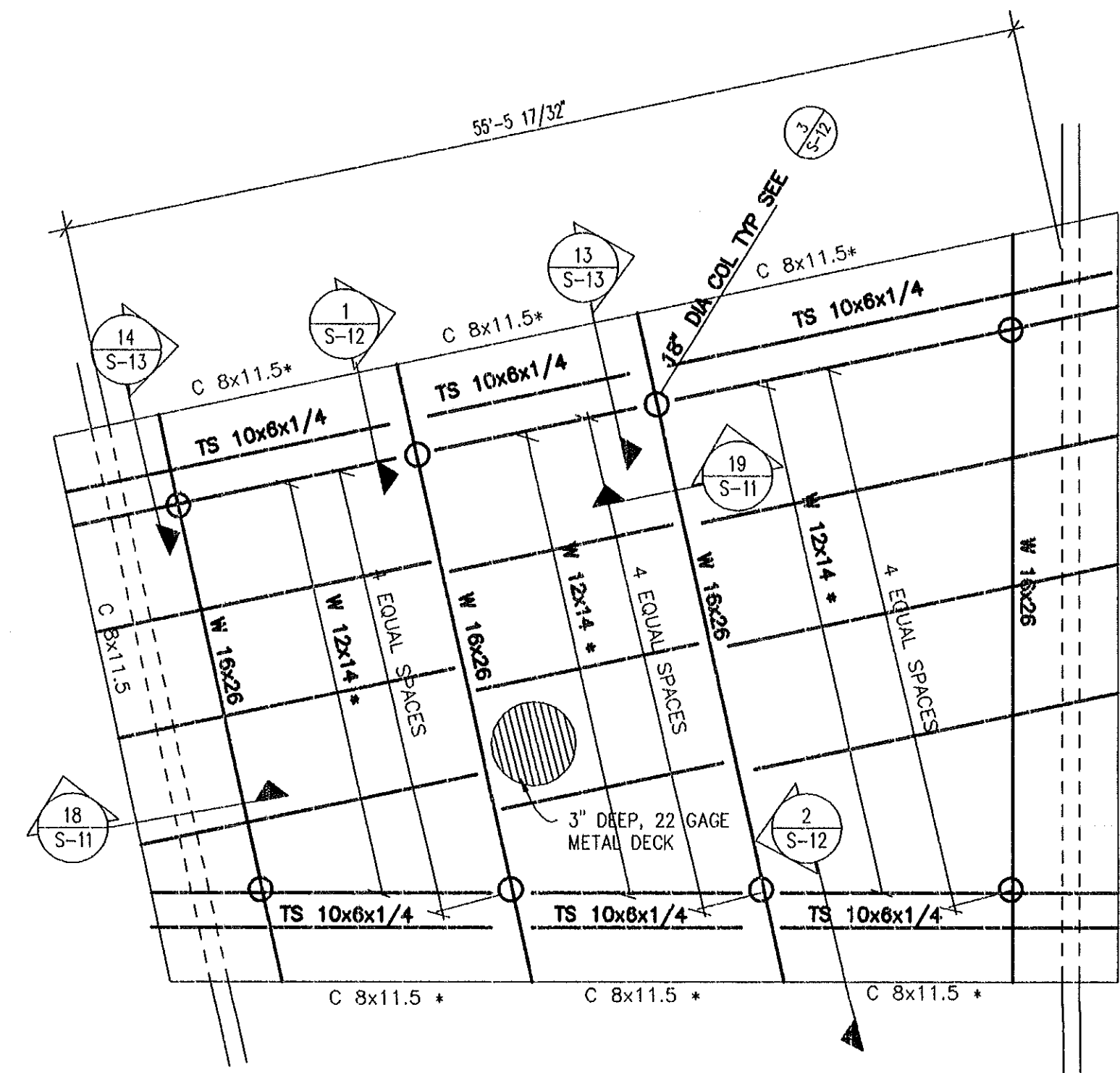
NOTES:

1. DESIGN STEEL JOIST FOR NET UPLIFT OF 37 PSF U.O.N.



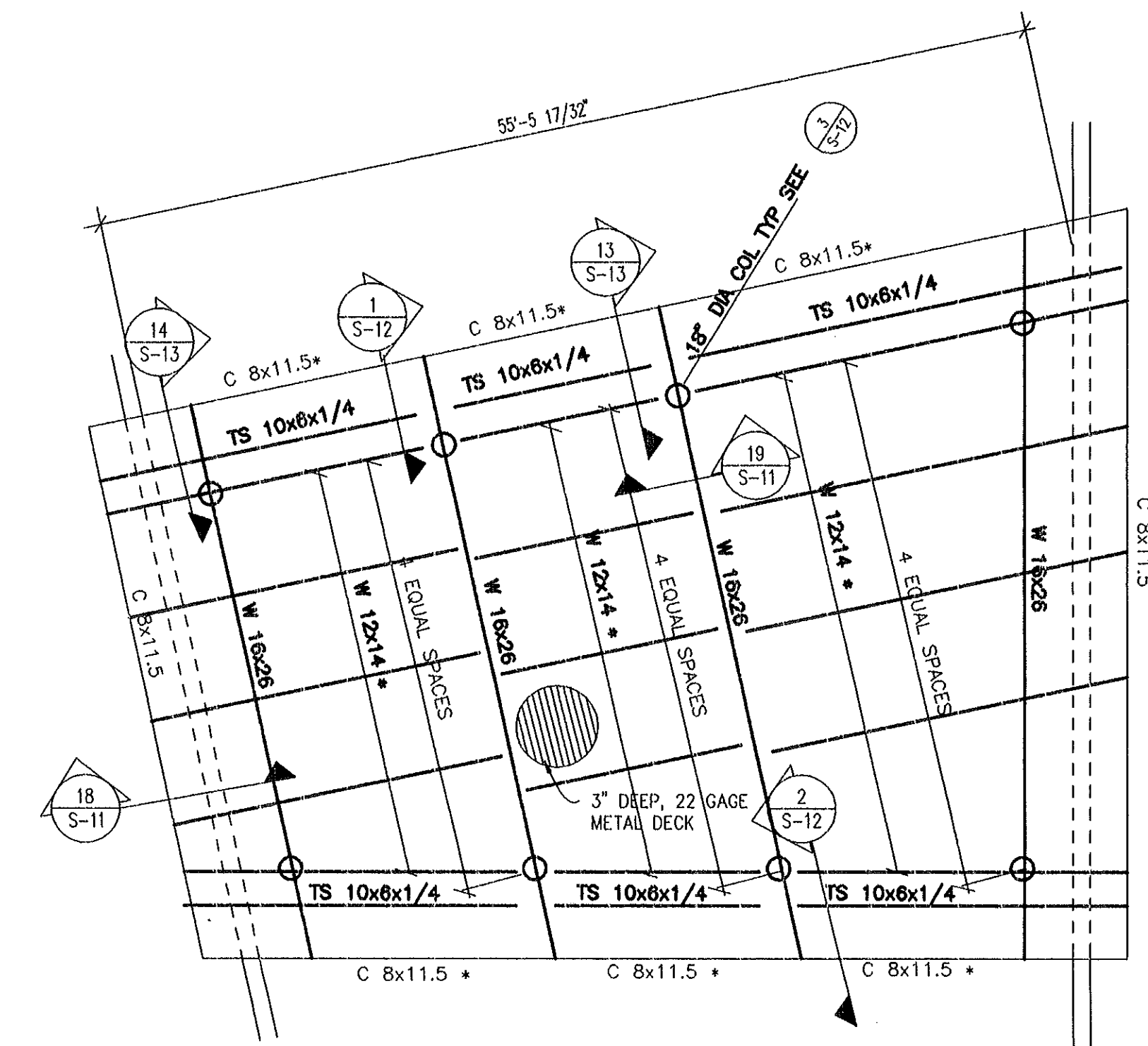
4 COMMONS 1 ROOF FRAMING
S-8 1/8" = 1'-0"

- NOTES:
1. * DENOTES BEAMS BENT TO RADIUS
 2. TS 10x6x1/4 @ TOP OF GLASS TO BE BENT TO RADIUS
 3. TS 10x6x1/4 @ INTERMEDIATE MULLION TO BE HORIZONTAL



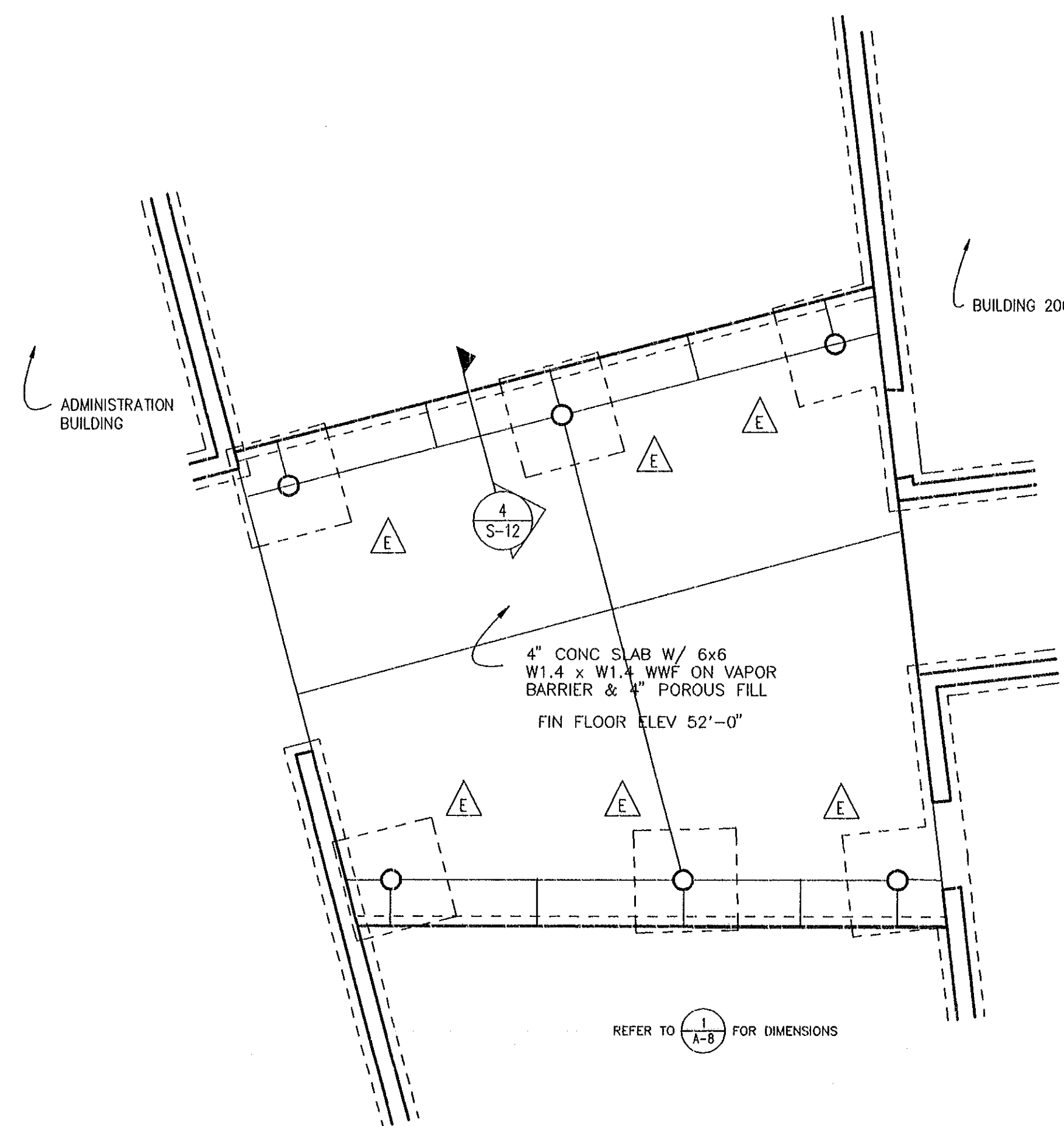
5 COMMONS 2 ROOF FRAMING PLAN
S-8 1/8" = 1'-0"

- NOTES:
1. * DENOTES BEAMS BENT TO RADIUS
 2. TS 10x6x1/4 @ TOP OF GLASS TO BE BENT TO RADIUS
 3. TS 10x6x1/4 @ INTERMEDIATE MULLION TO BE HORIZONTAL

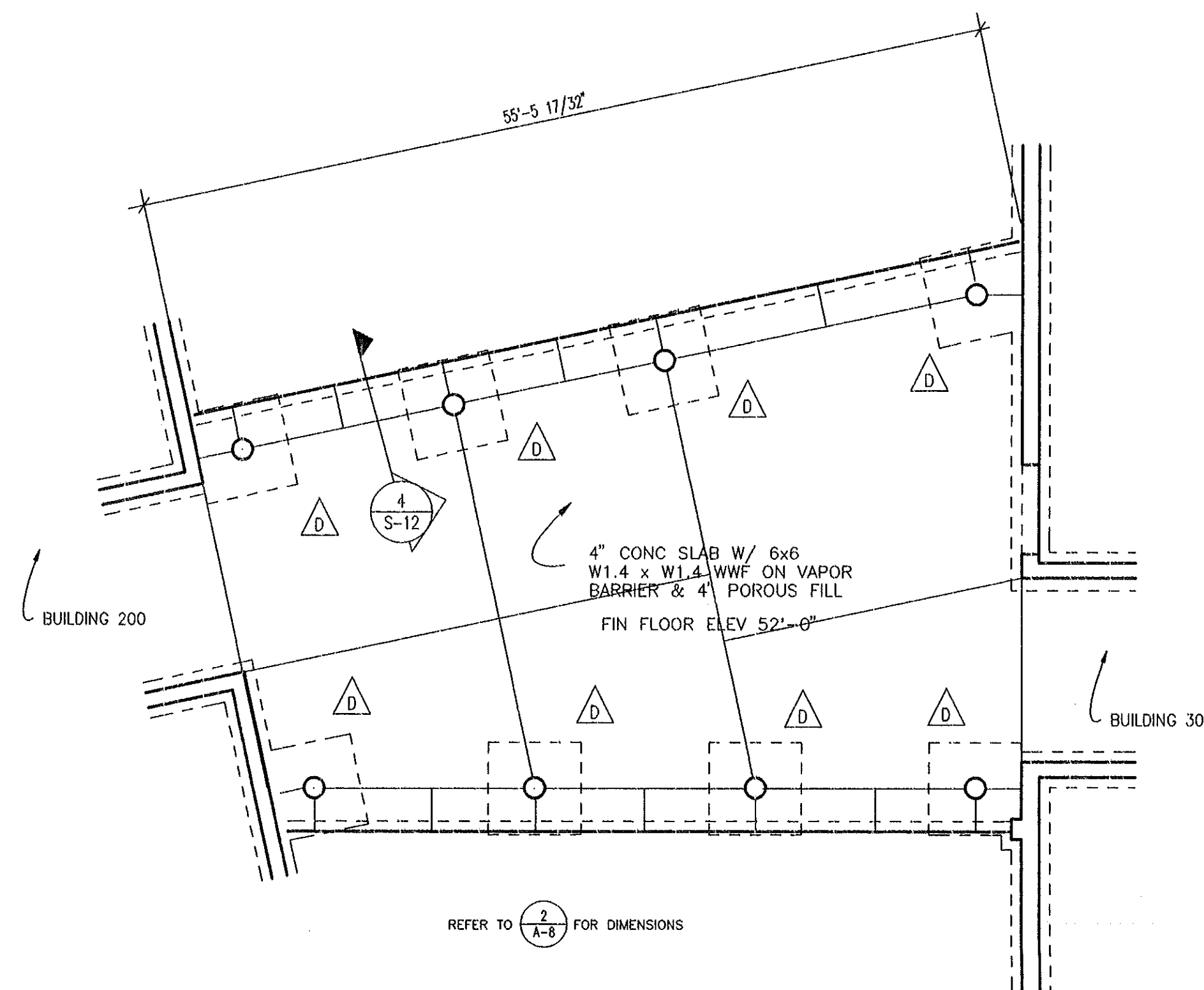


6 COMMONS 3 ROOF FRAMING PLAN
S-8 1/8" = 1'-0"

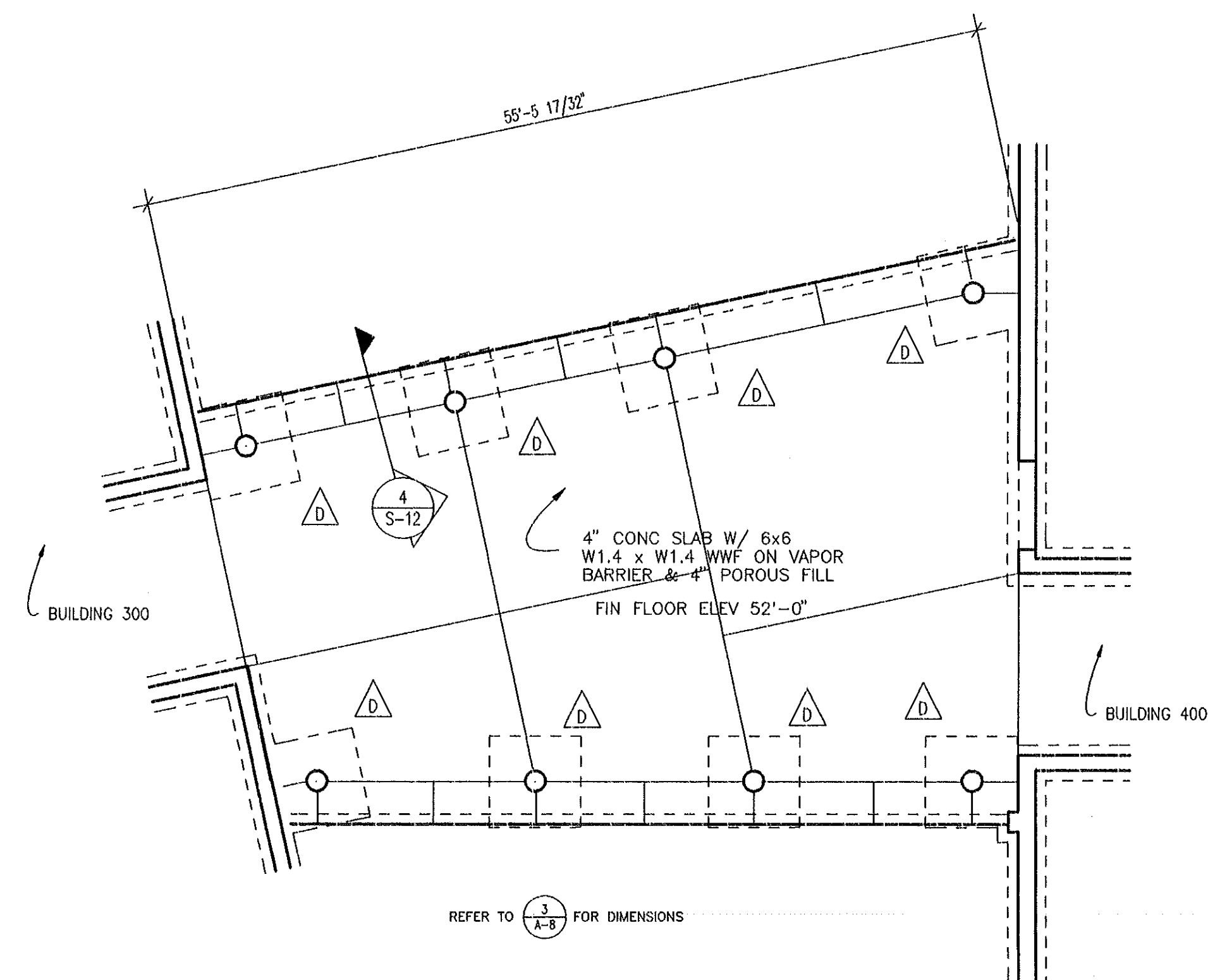
- NOTES:
1. * DENOTES BEAMS BENT TO RADIUS
 2. TS 10x6x1/4 @ TOP OF GLASS TO BE BENT TO RADIUS
 3. TS 10x6x1/4 @ INTERMEDIATE MULLION TO BE HORIZONTAL



1 COMMONS 1 FOUNDATION PLAN
S-8 1/8" = 1'-0"



2 COMMONS 2 FOUNDATION PLAN
S-8 1/8" = 1'-0"

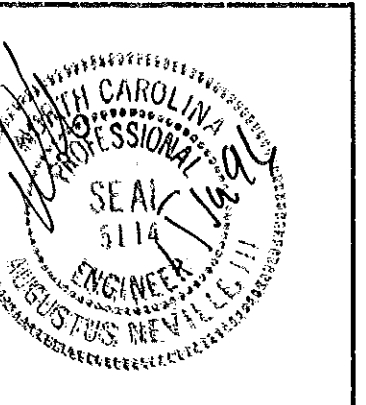


3 COMMONS 3 FOUNDATION PLAN
S-8 1/8" = 1'-0"

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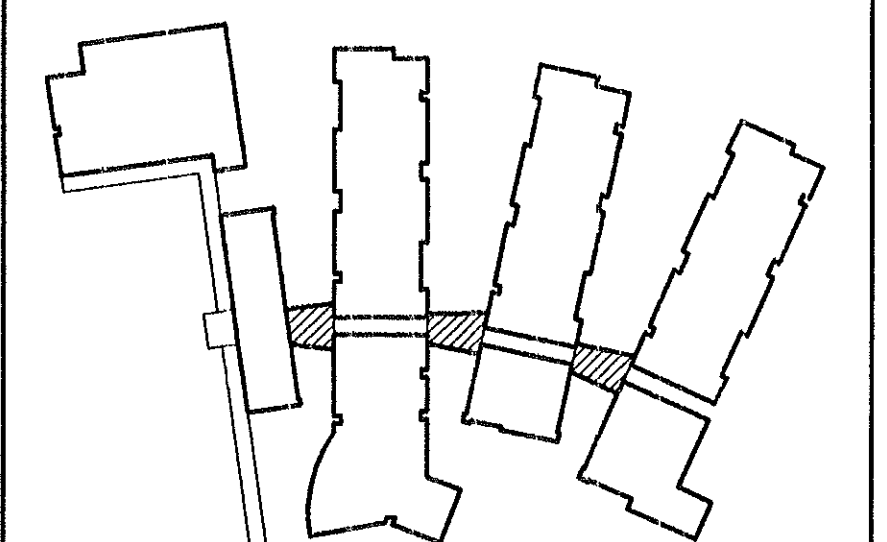


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Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
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Revisions		



New Havelock
Middle School

Craven County
North Carolina

project title

COMMONS 1,2,3
FOUNDATION & ROOF FRAMING PLAN

sheet title

scale:

9502.00

project no.

sheet no. S-8 of: 16

1/15/96

date

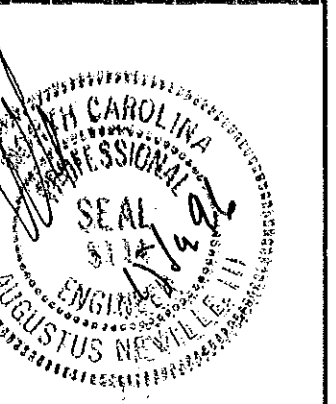
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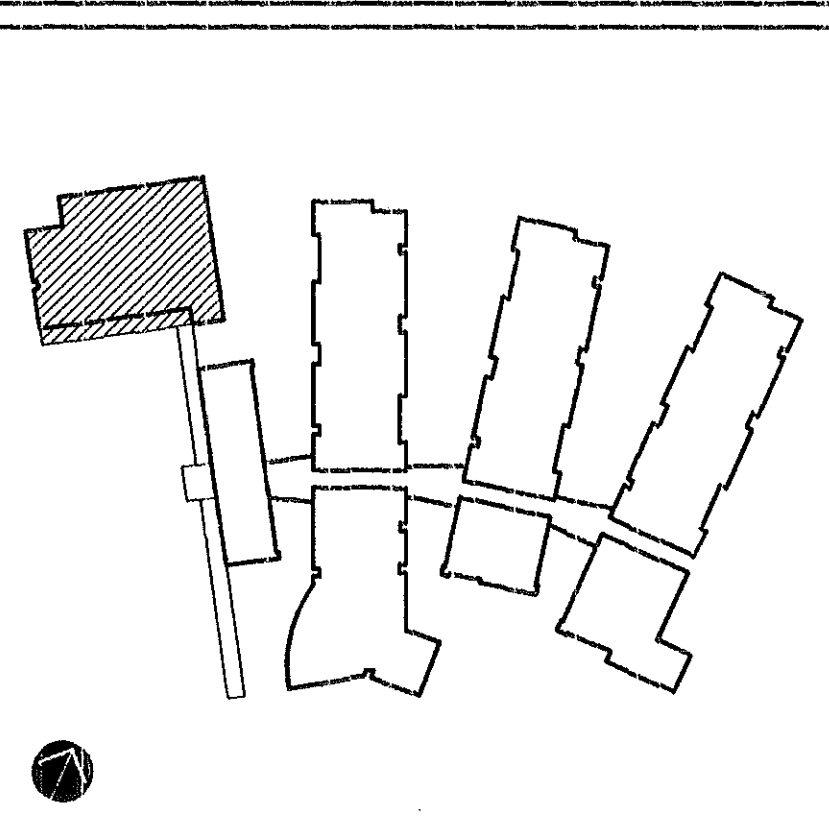


consultant

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Project Engineer: RNL
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Middle School

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North Carolina

project title

GYMNASIUM
FOUNDATION PLAN

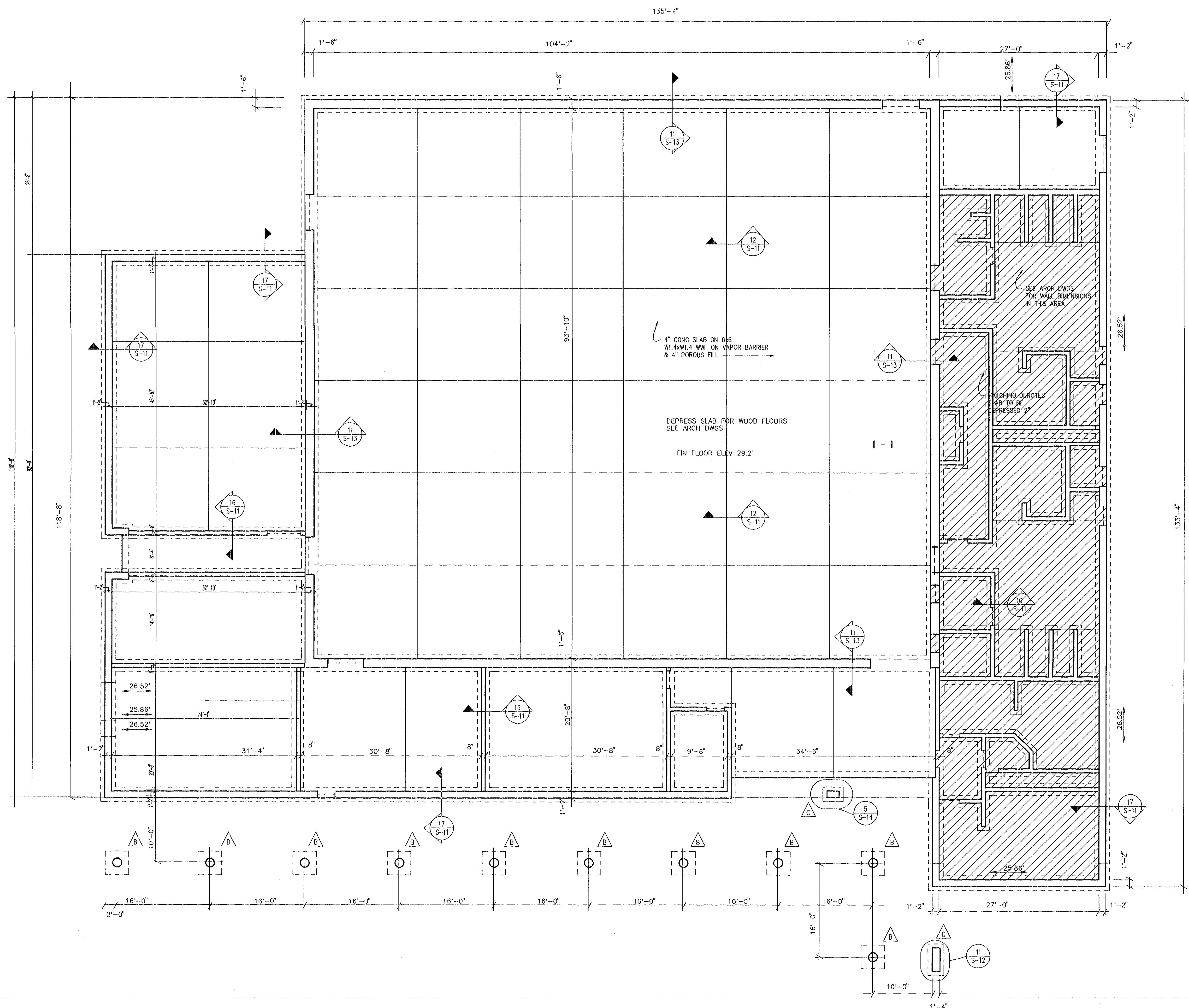
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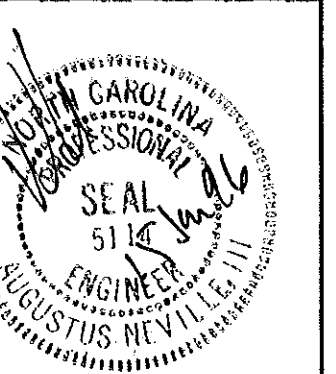
9502.00
project no.

sheet no. S-9 of 16

1/15/96
date

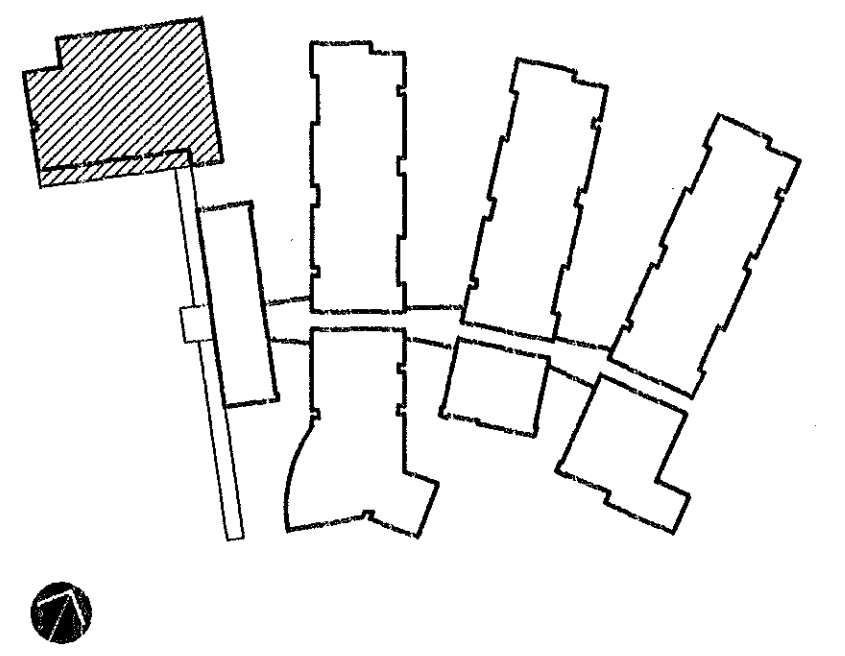
sheet no. S-9





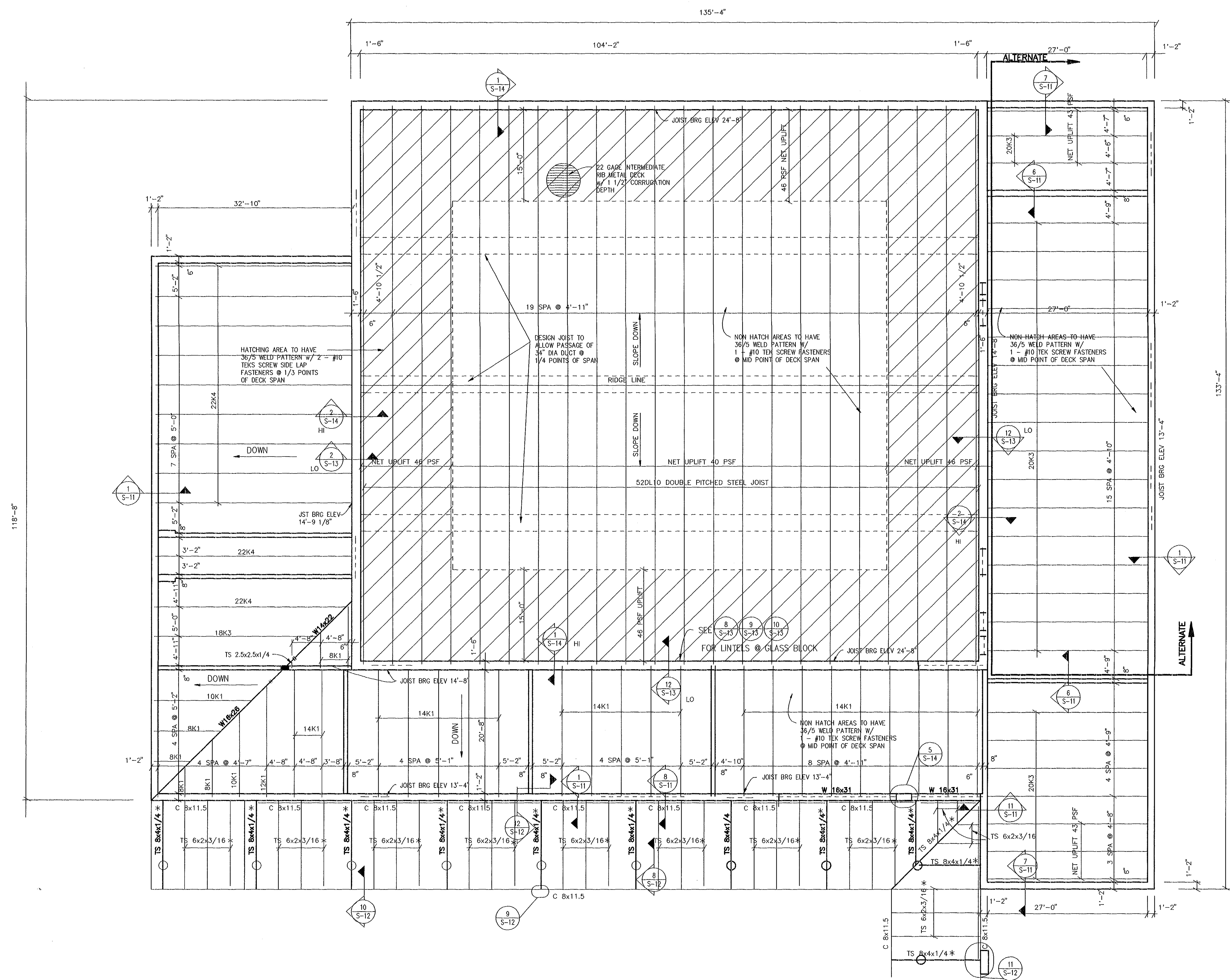
Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer:
drawn by: RNL
checked by: AN

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Revisions		



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North Carolina

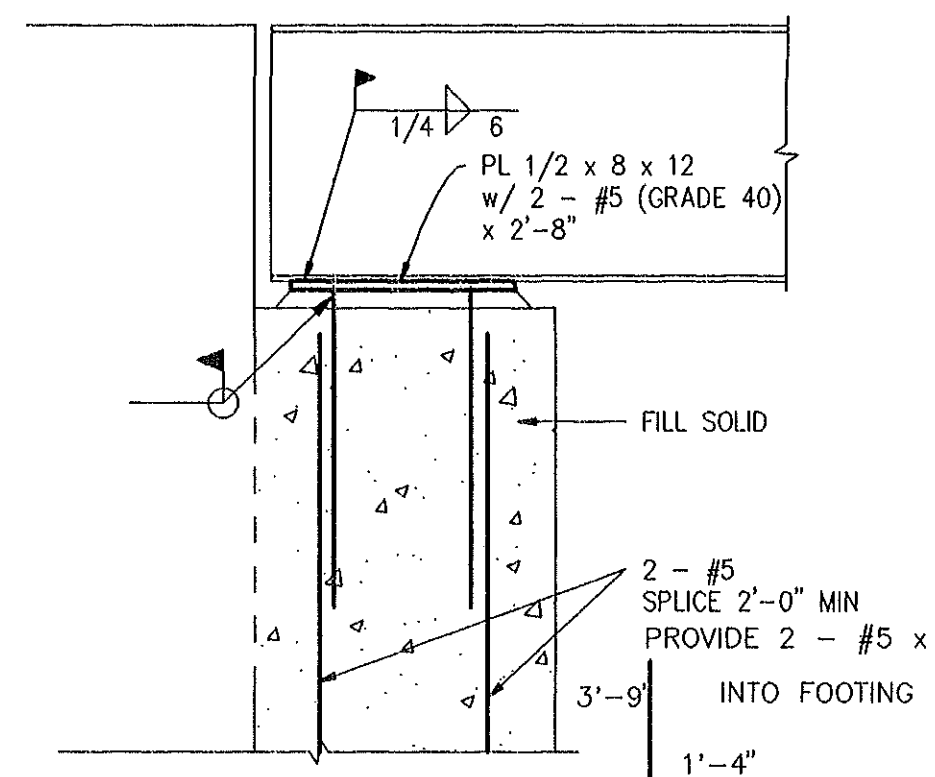
Sheet no. S-10



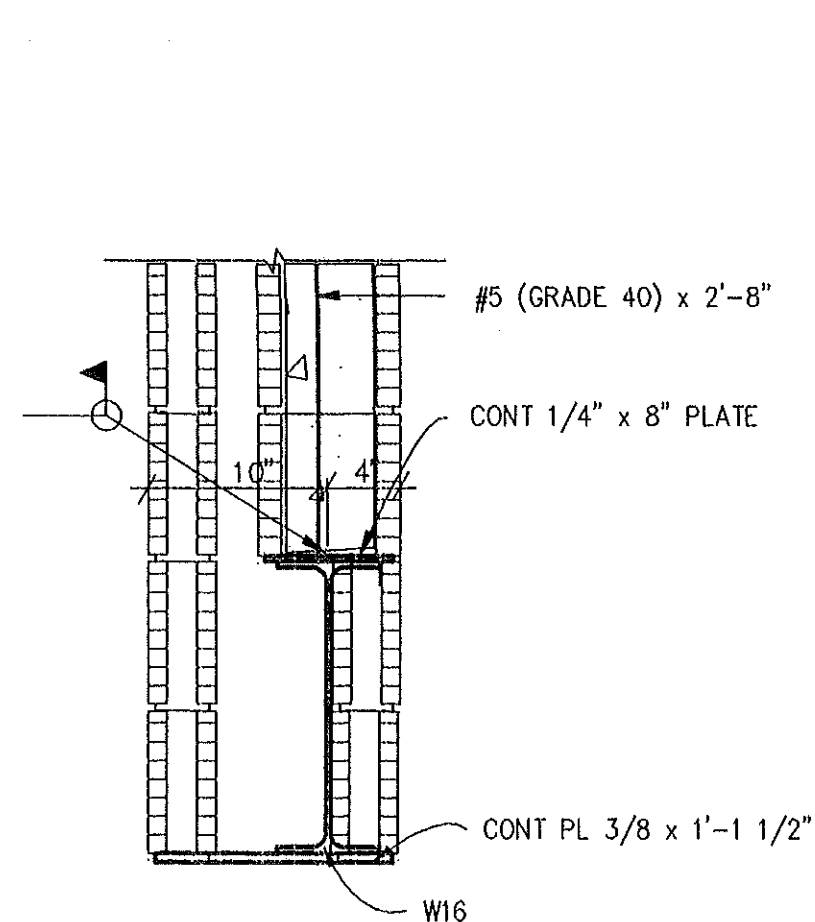
1 GYMNASIUM ROOF FRAMING PLAN
S-10 $1/8" = 1'-0"$

- NOTES:
1. DESIGN JOIST FOR NET UPLIFT OF 35 PSF U.O.N.
2. * DENOTES MEMBERS BENT TO RADIUS.

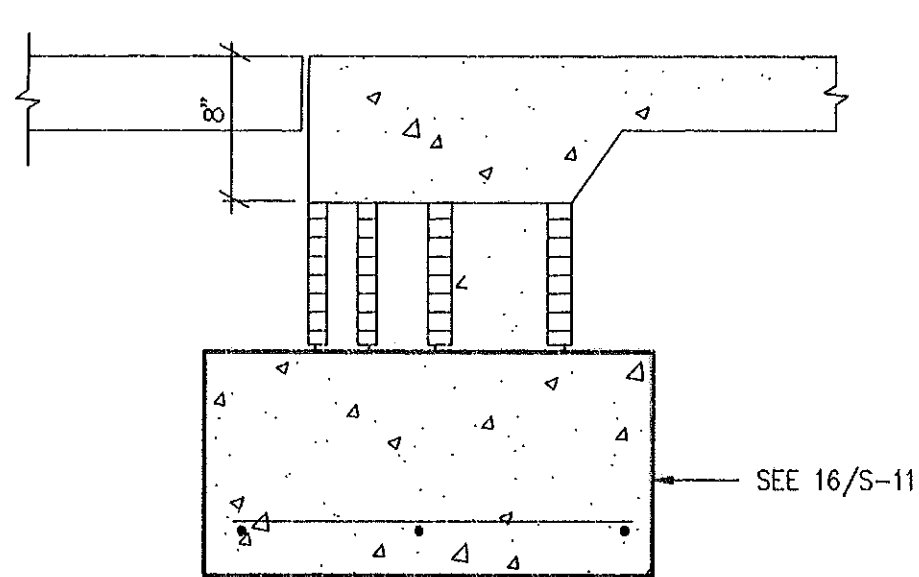
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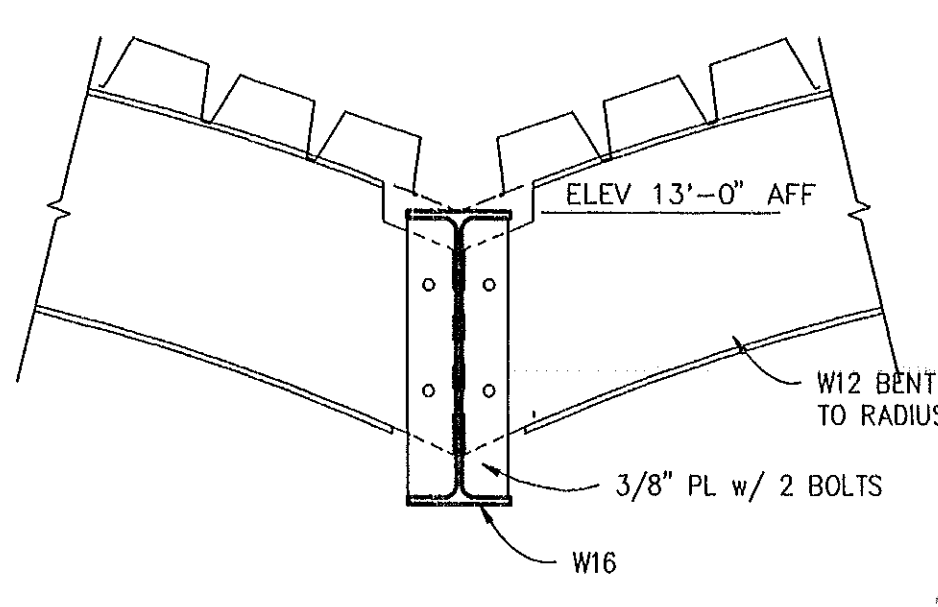
5 BEAM BEARING DETAIL
S-11



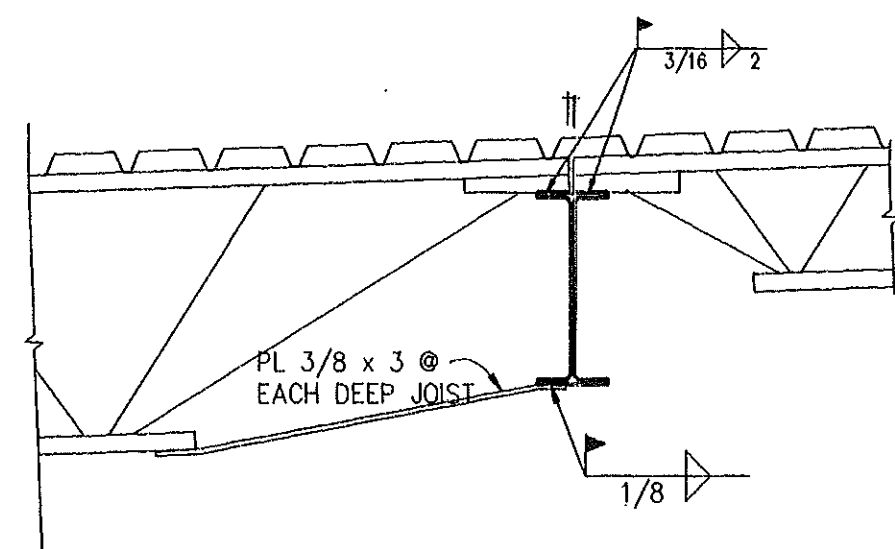
10 LINTEL DETAIL
S-11 SEE 11 FOR LINTEL BEARING



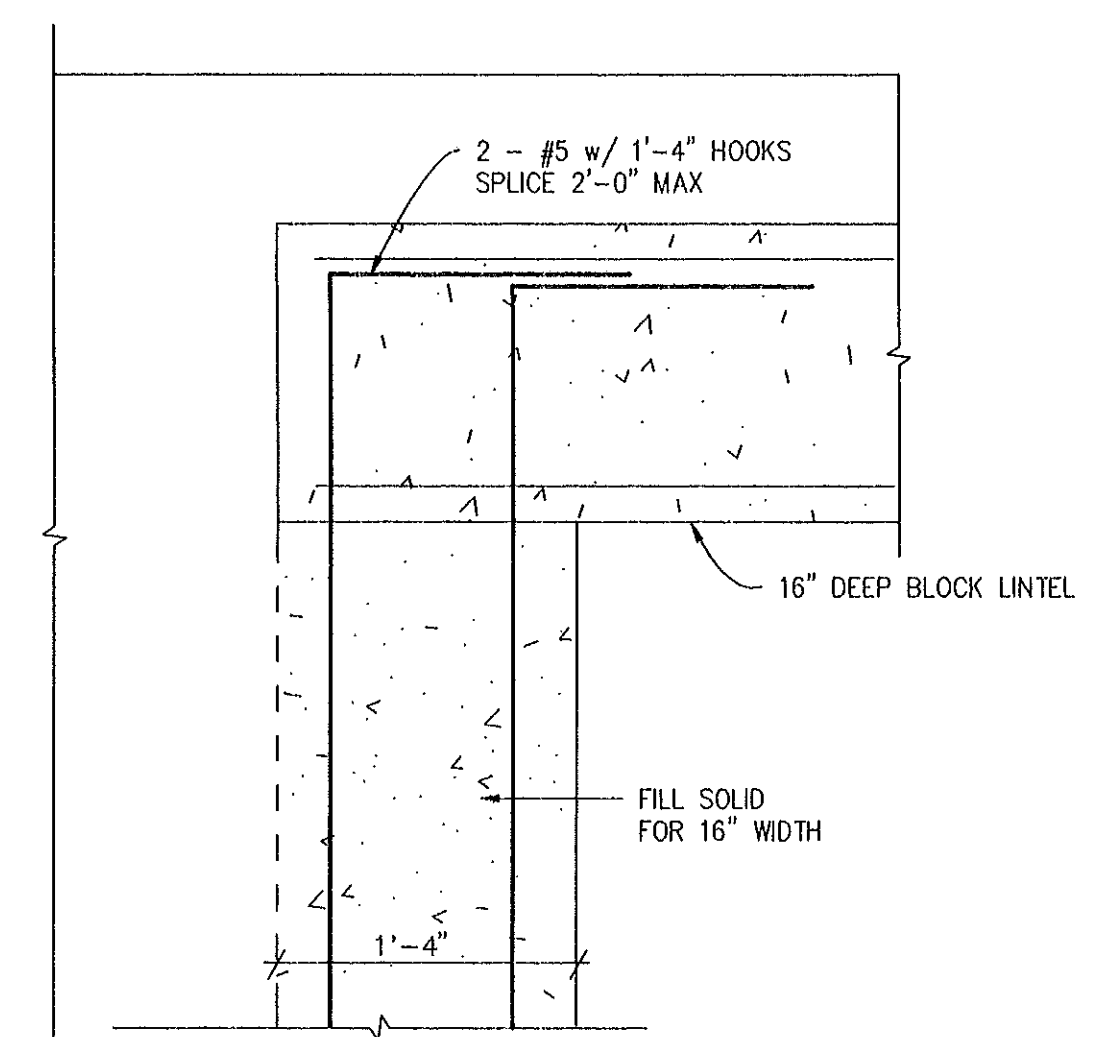
15 TURNED DOWN SLAB DETAIL
S-11



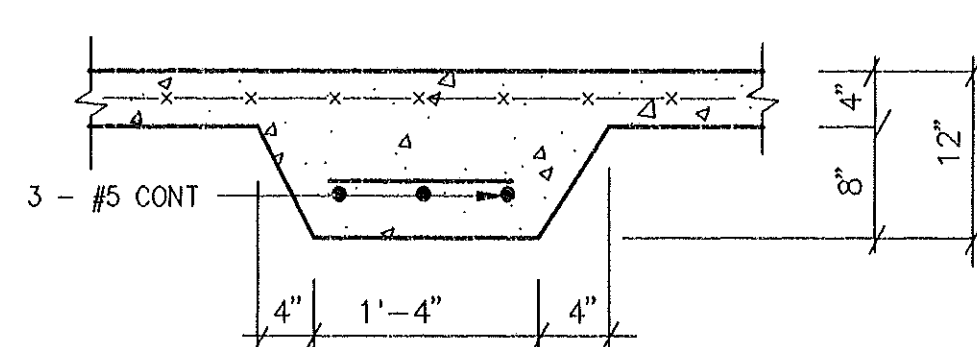
19 TYP BEAM TO BEAM CONNECTION
S-11



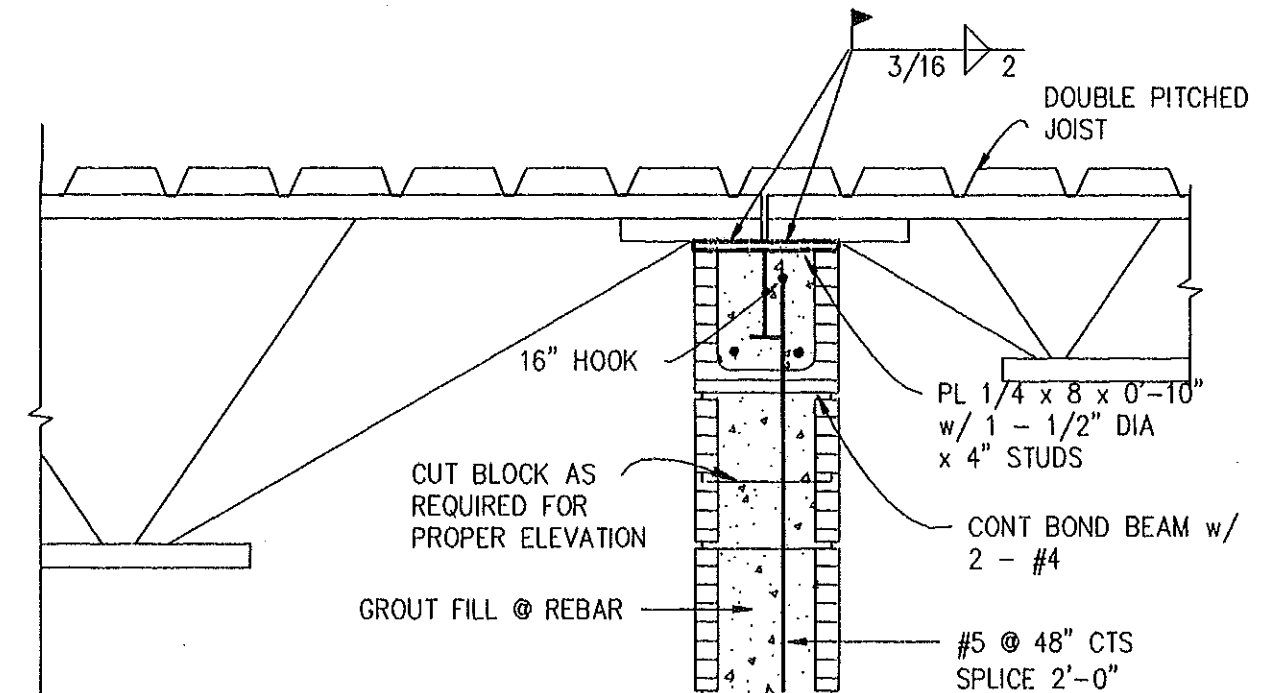
4 JOIST BEARING DETAIL
S-11



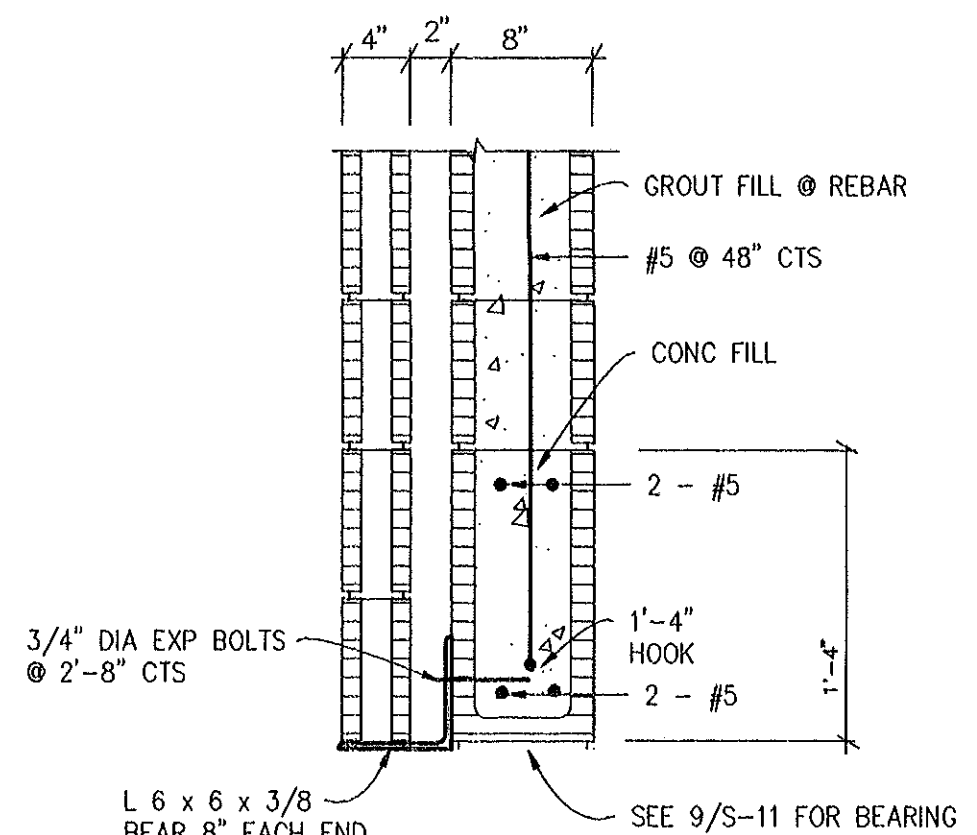
9 LINTEL BEARING DETAIL
S-11



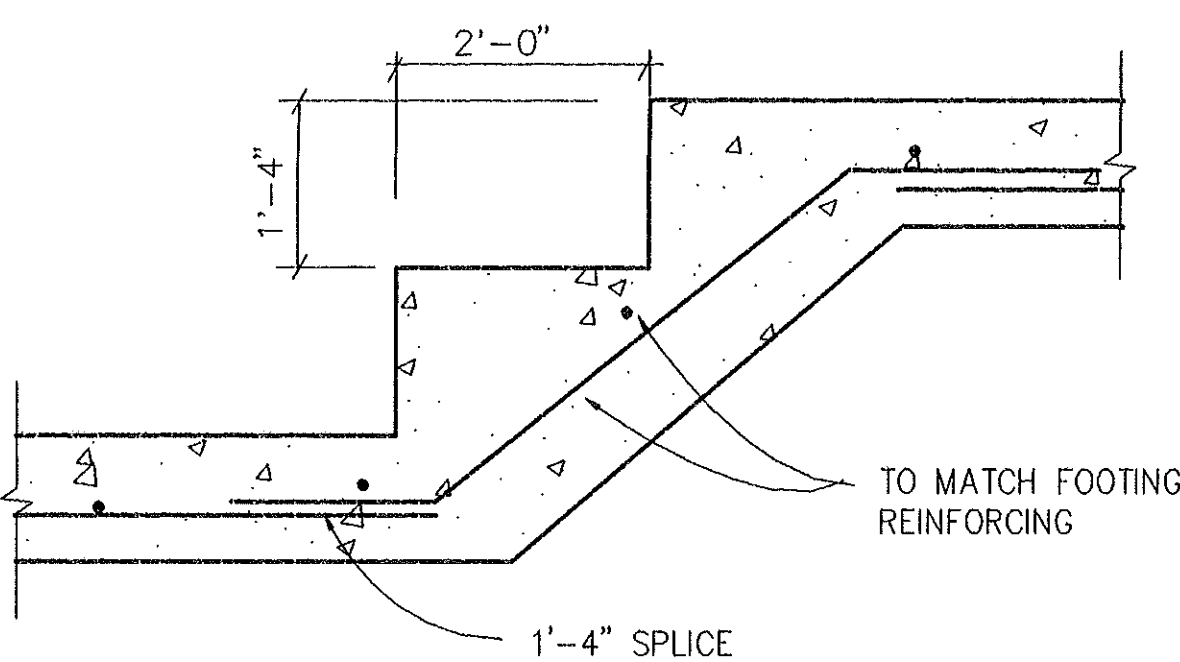
14 THICKENED SLAB DETAIL
S-11



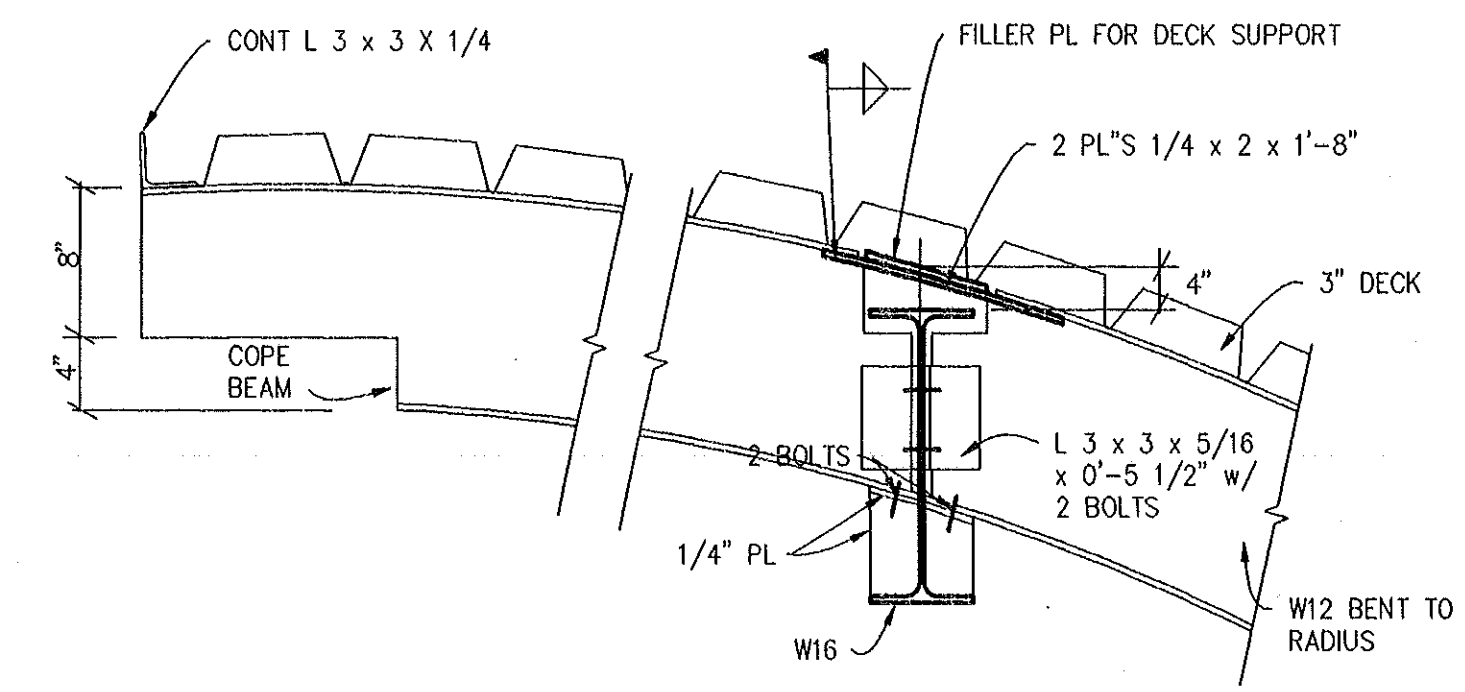
3 JOIST BEARING DETAIL
S-11



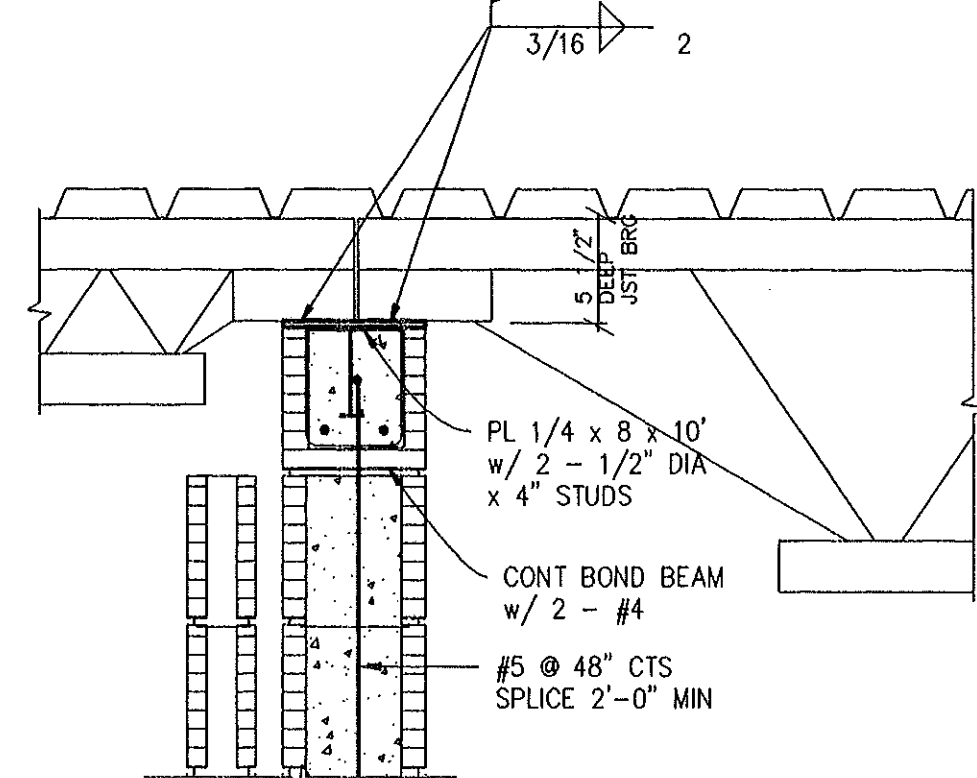
8 LINTEL @ 9'-4" OPENING
S-11



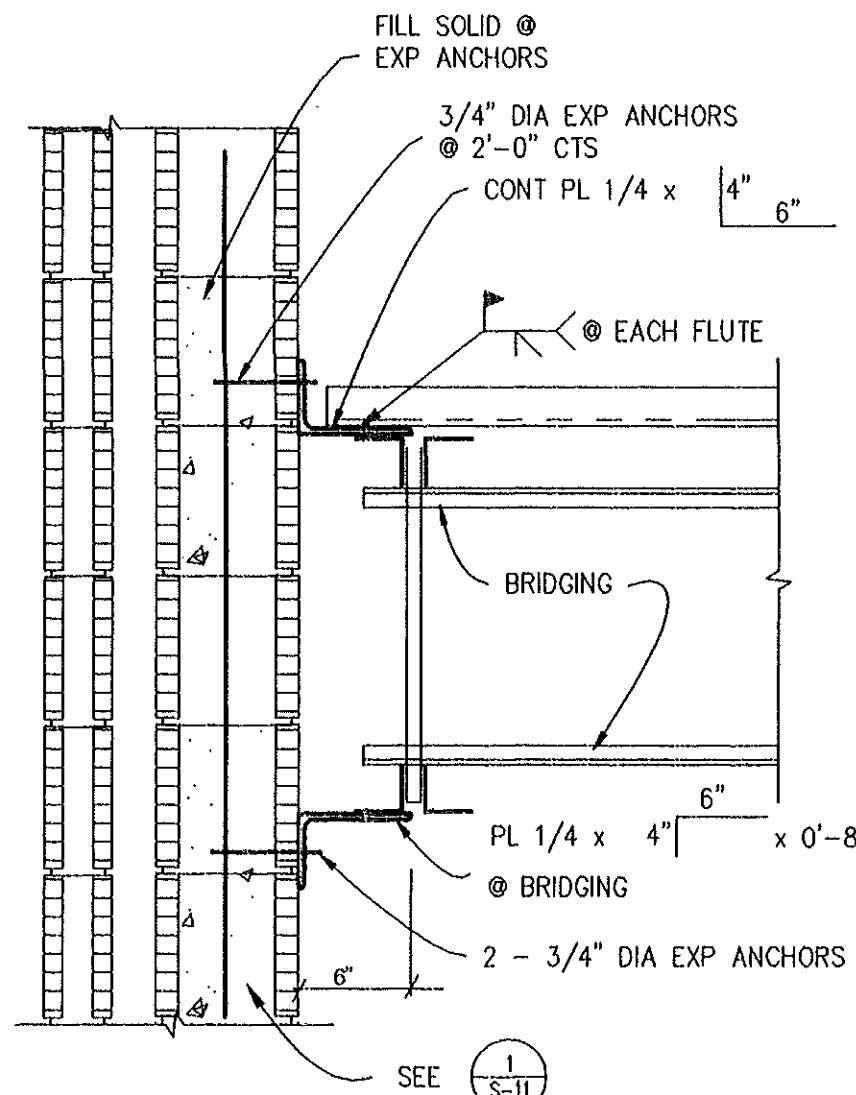
13 STEPPED FOOTING DETAIL
S-11



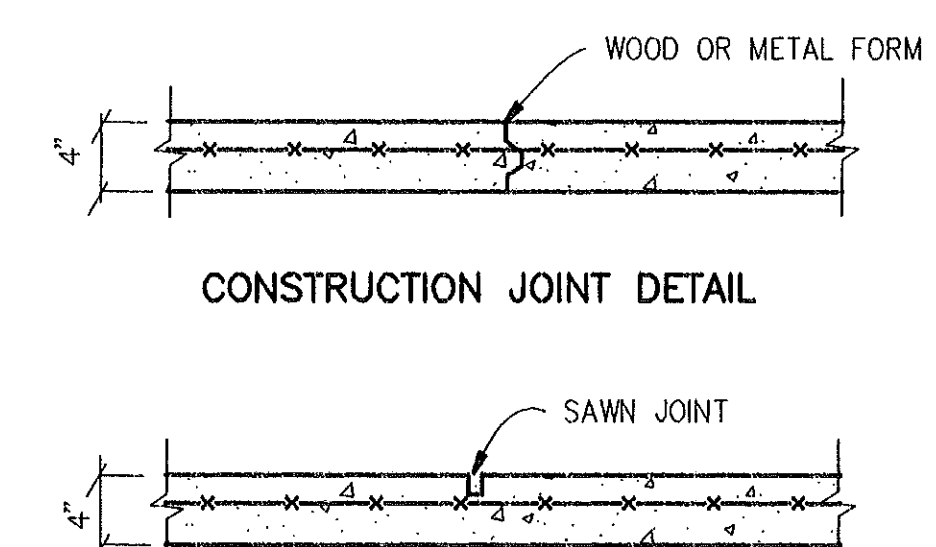
18 TYP BEAM TO BEAM CONNECTION
S-11



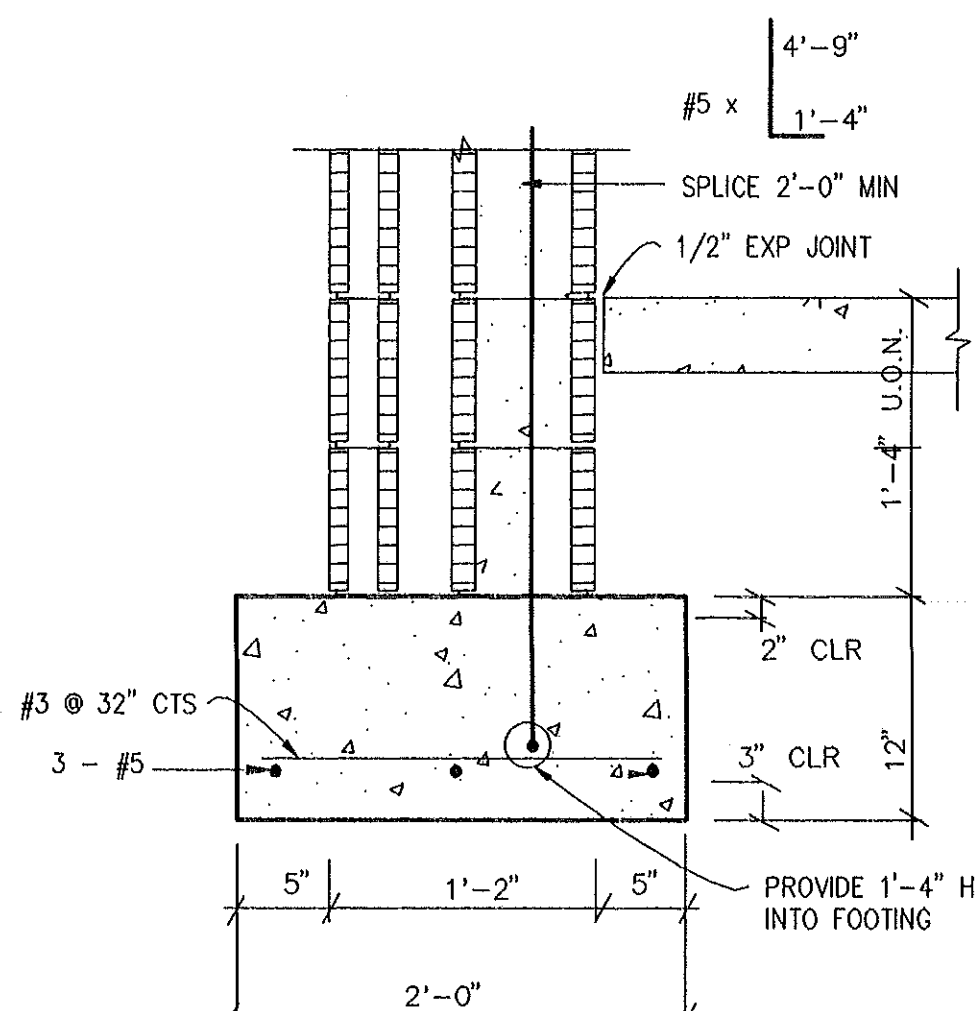
2 JOIST BEARING DETAIL
S-11



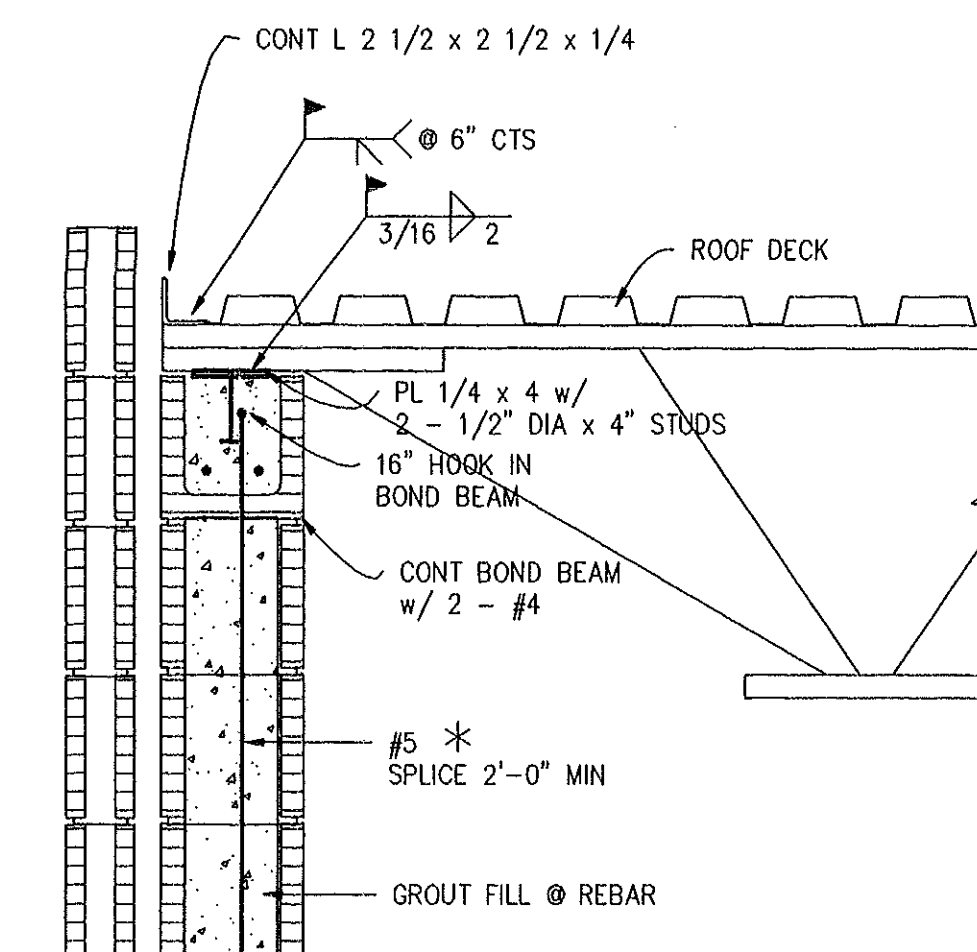
7 JOIST TO WALL CONNECTION
S-11



12 CONTROL JOINT DETAIL
S-11

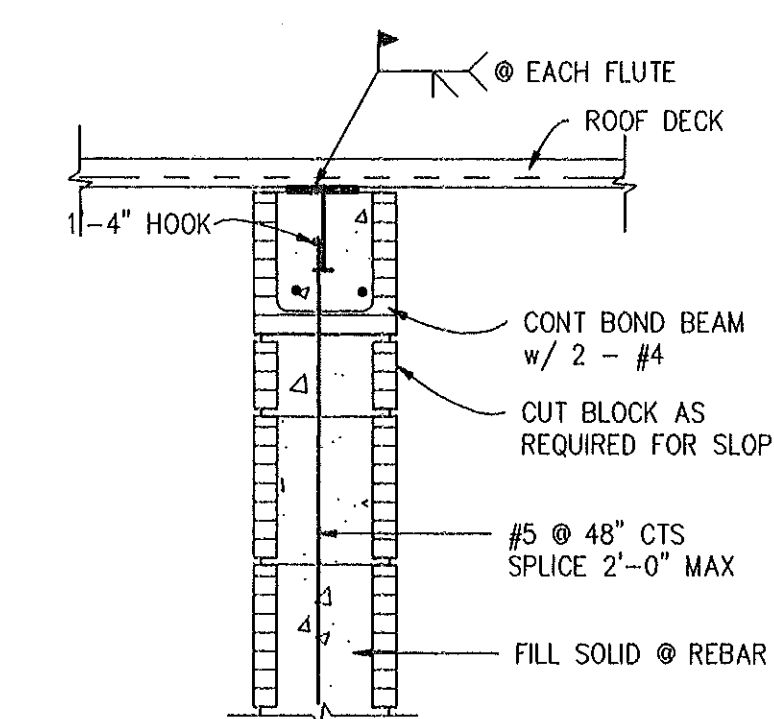


17 TYP EXTERIOR WALL FOOTING
S-11

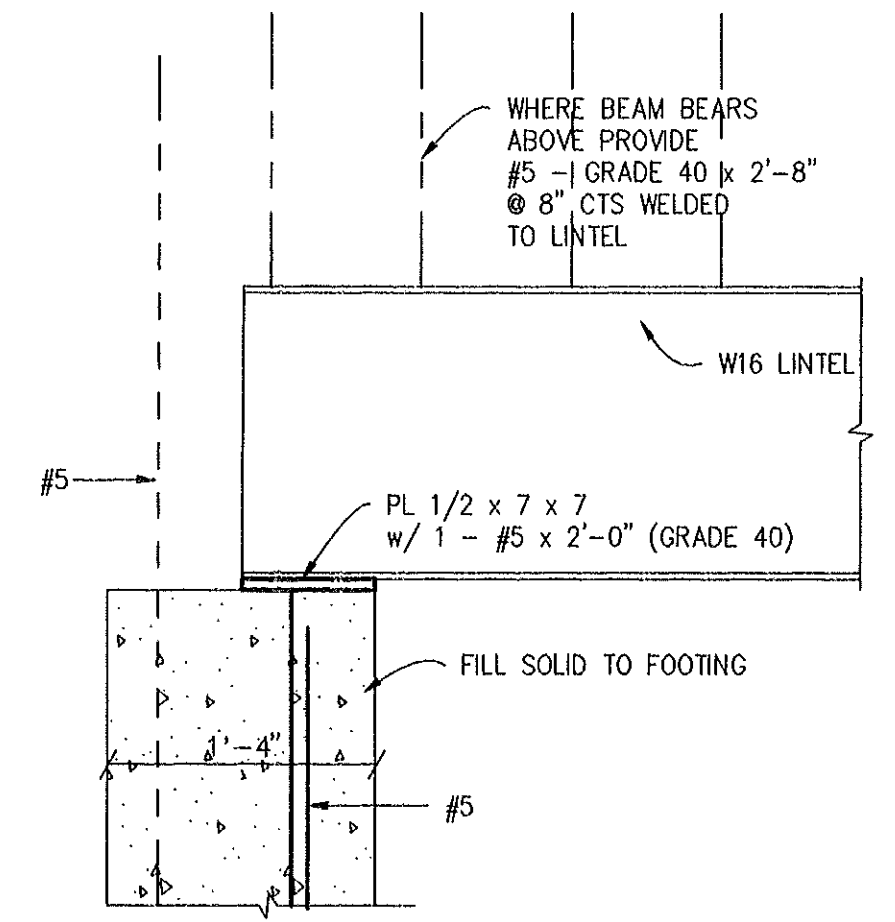


1 JOIST BEARING DETAIL
S-11

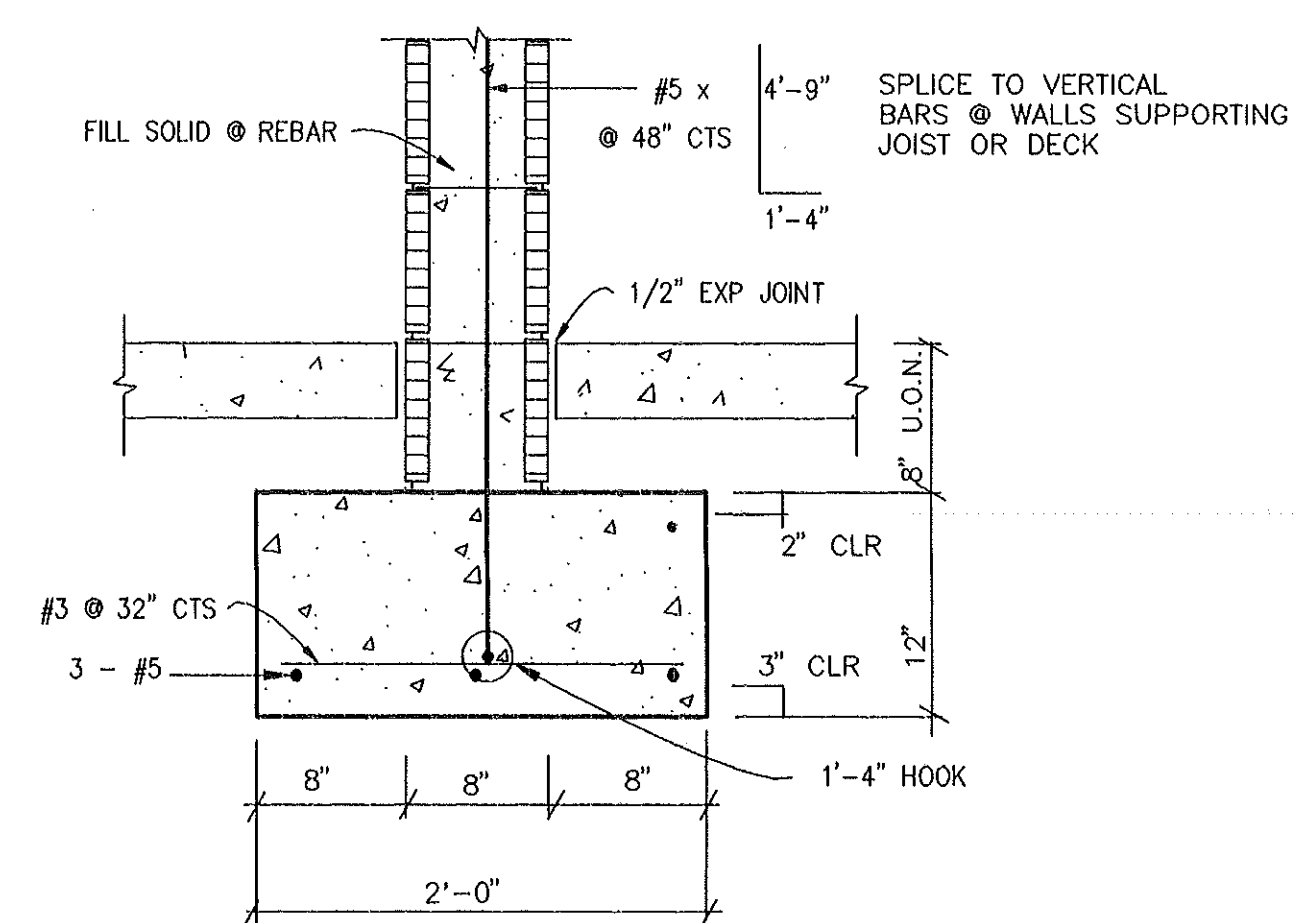
* FOR ADMINISTRATION, CLASSROOM & LOW GYM WALLS PROVIDE #5 @ 2'-0" CTS. FOR MEDIA CENTER, BAND ROOM, & CAFETERIA PROVIDE #5 @ 16" CTS



6 TYP DECK CONNECTION TO SHEAR WALL
S-11



11 LINTEL BEARING DETAIL
S-11

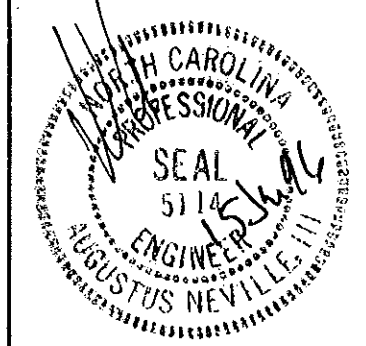


16 TYP INTERIOR WALL FOOTING
S-11

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Project Architect: JFS
Project Engineer: RNL
drawn by: AN
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Revisions		

New Havelock Middle School

Craven County North Carolina

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DETAILS

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sheet no. S-11 of 17

sheet no. S-11

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New Havelock
Middle School

Craven County
North Carolina

project title

DETAILS

sheet title

scale:

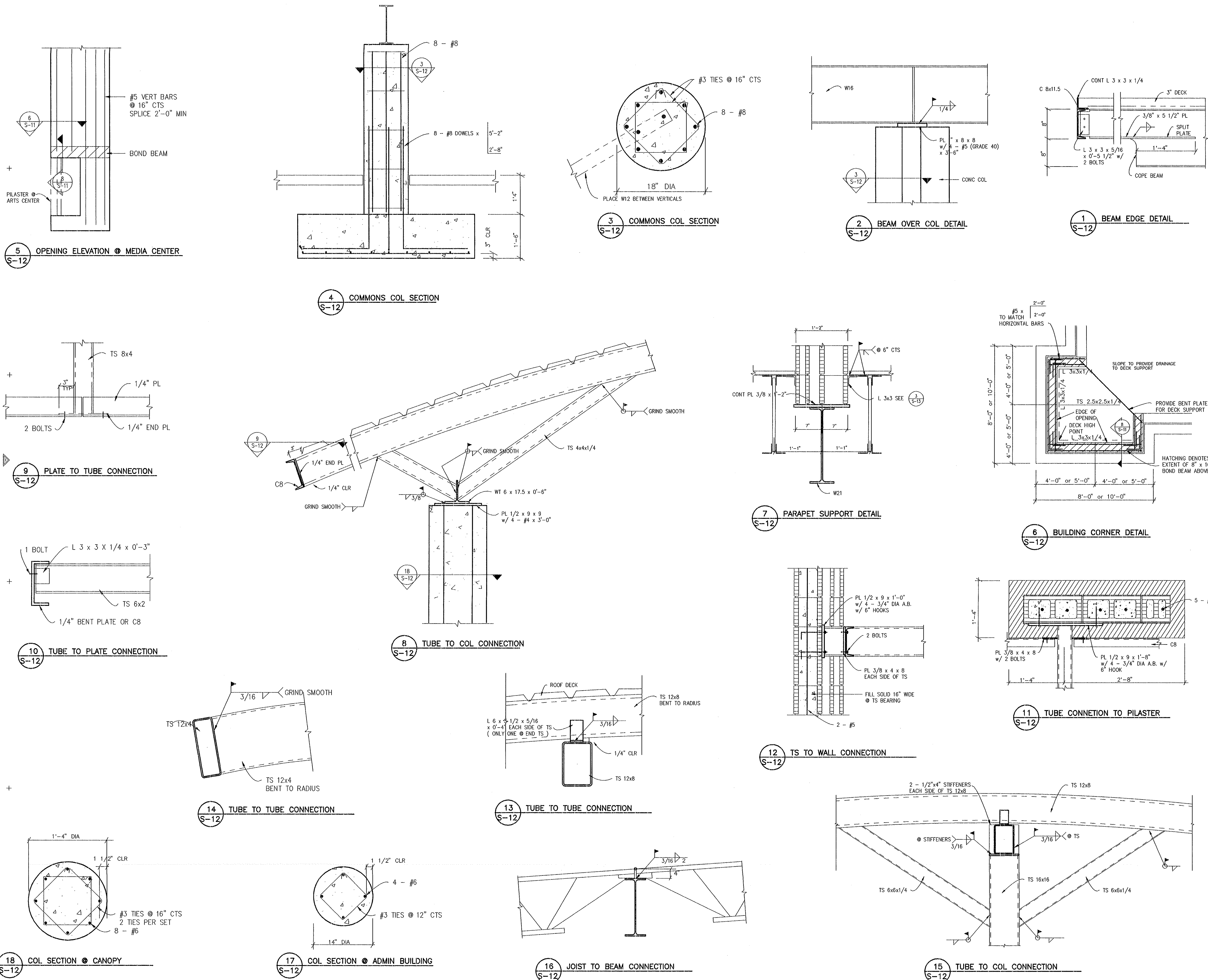
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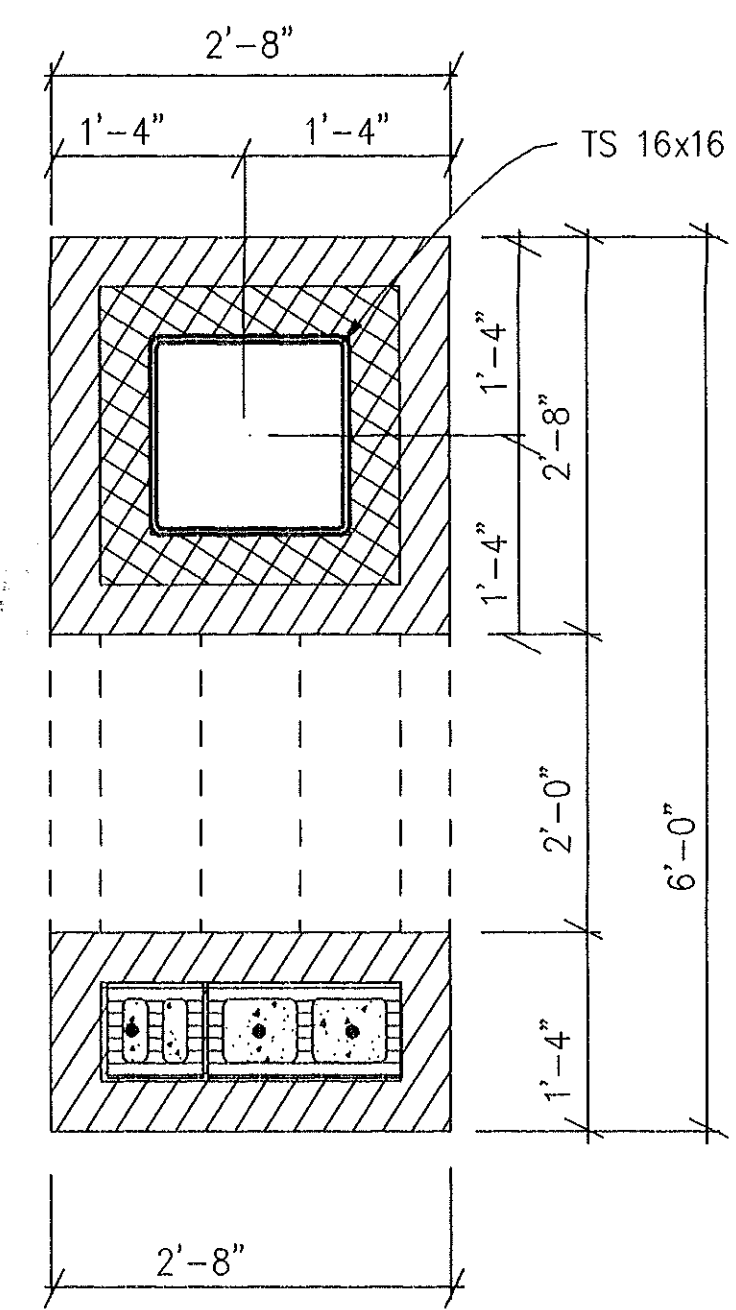
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sheet no. S-12 of: 16

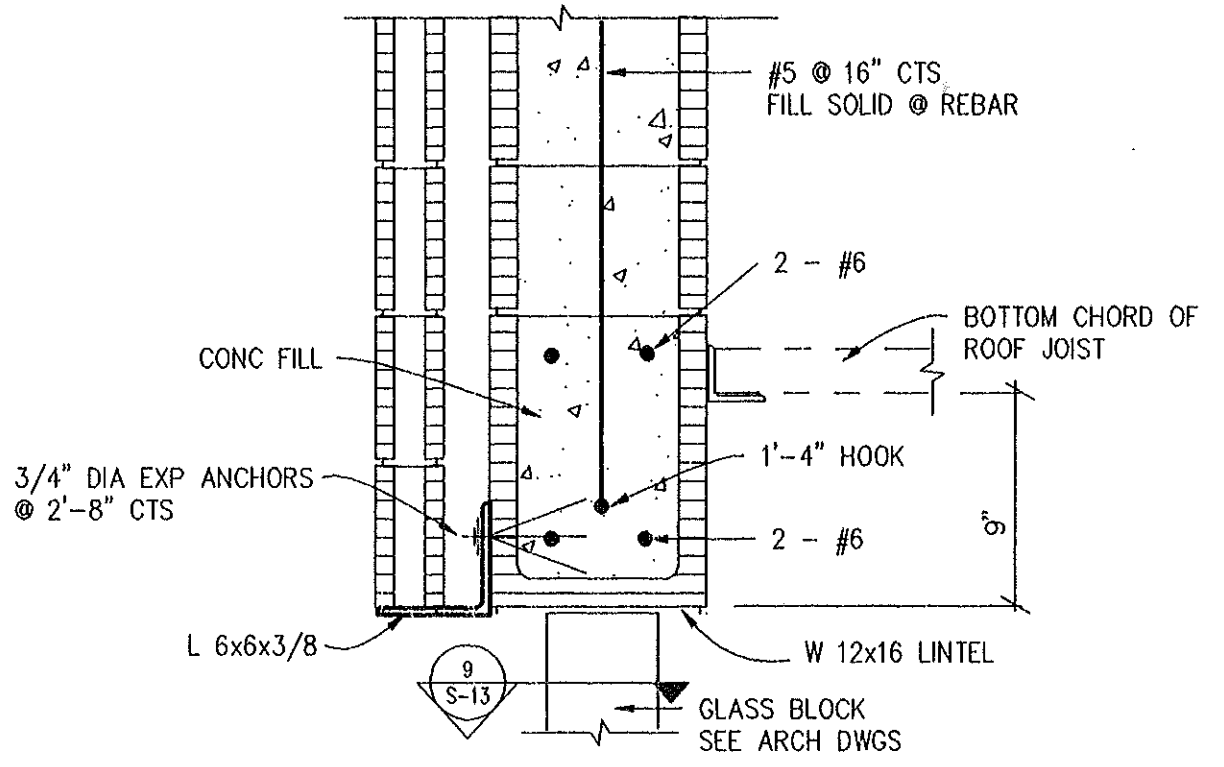
sheet no. S-12

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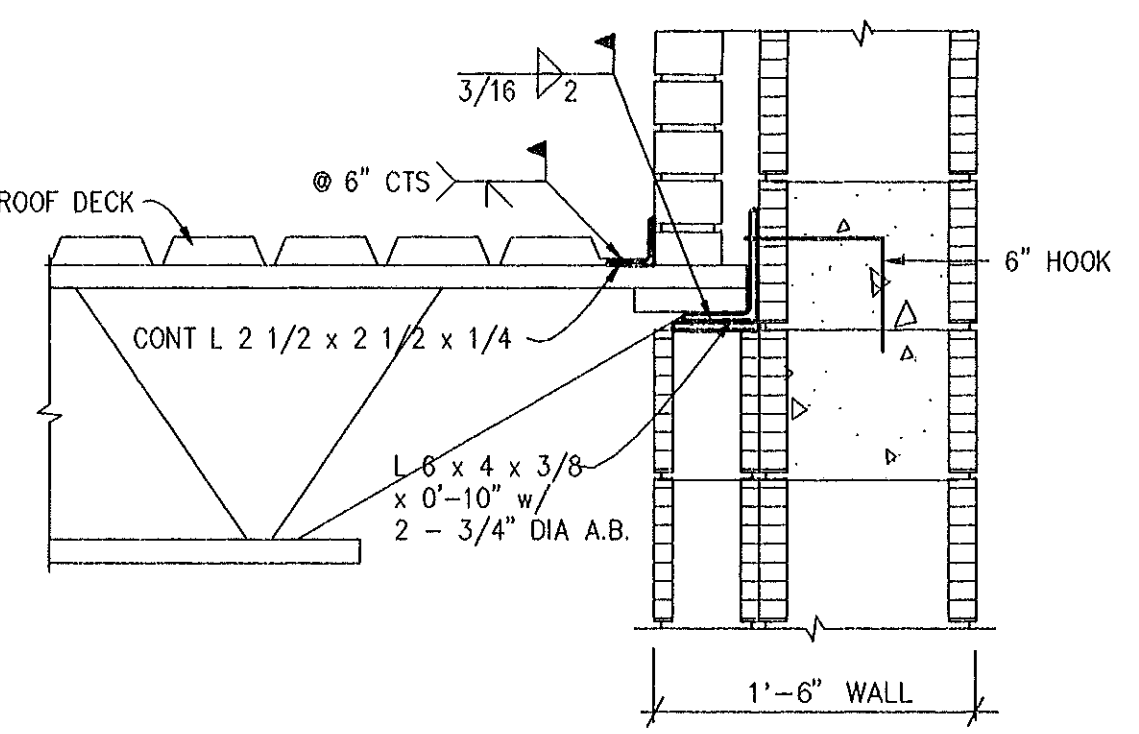




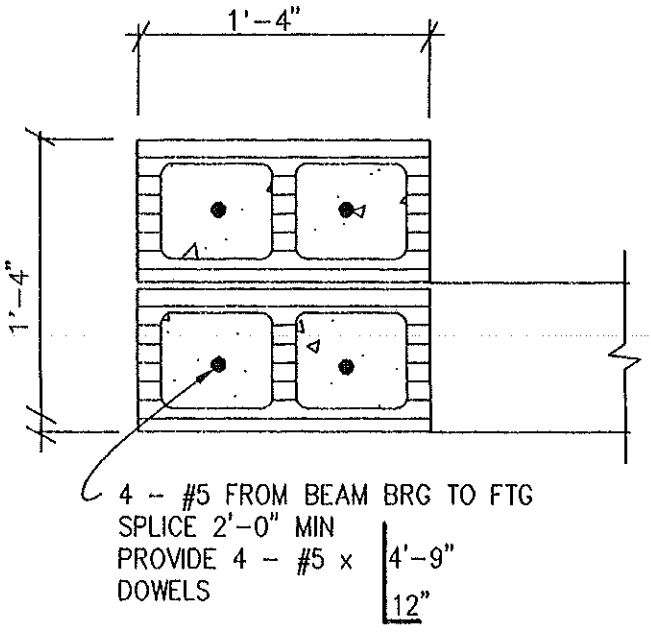
4 CANOPY COL DETAIL
S-13



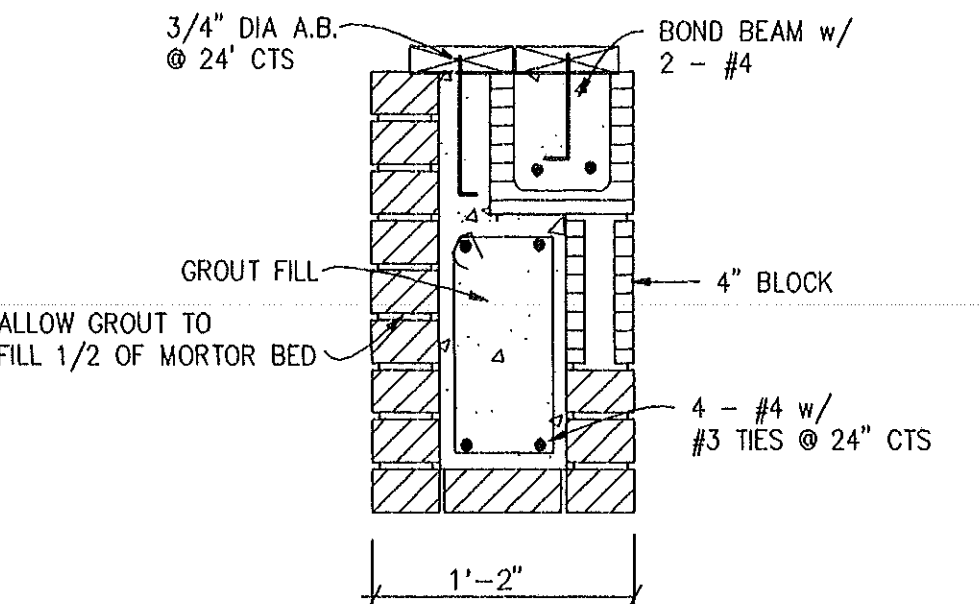
8 LINTEL @ GLASS BLOCK
S-13



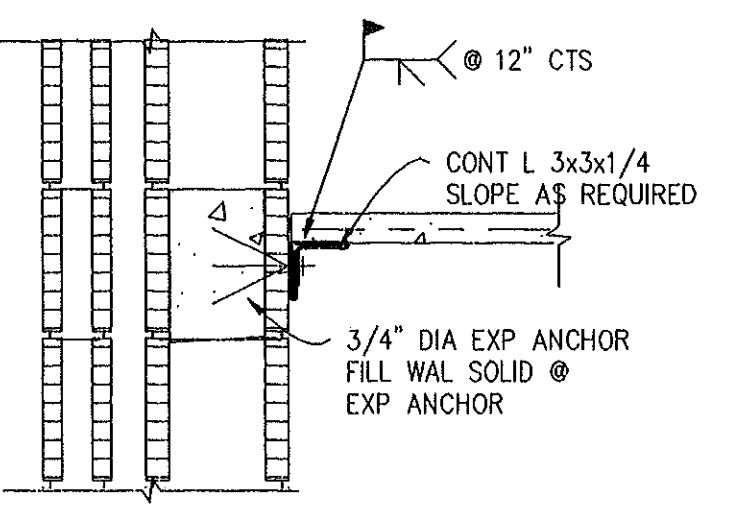
12 JOIST BEARING DETAIL
S-13



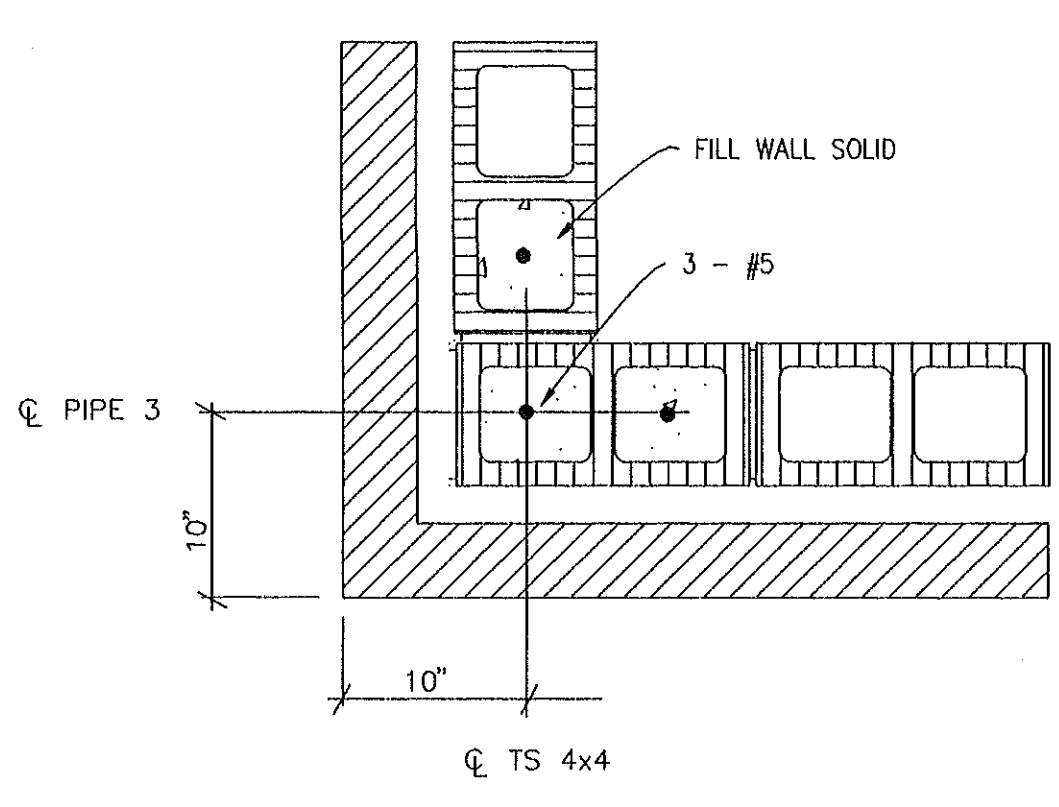
17 PILASTER DETAIL
S-13



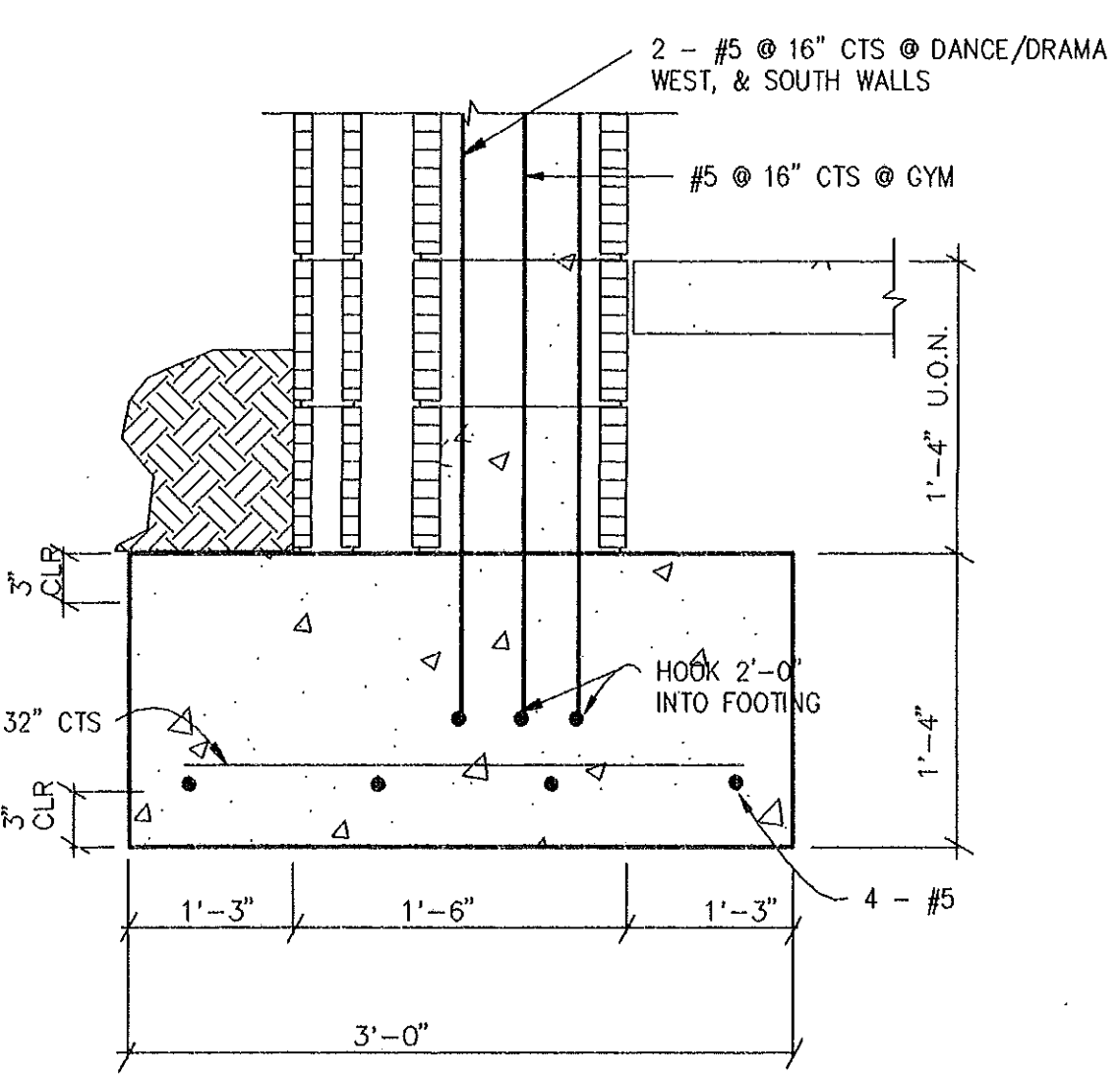
16 MASONRY BEAM DETAIL
S-13



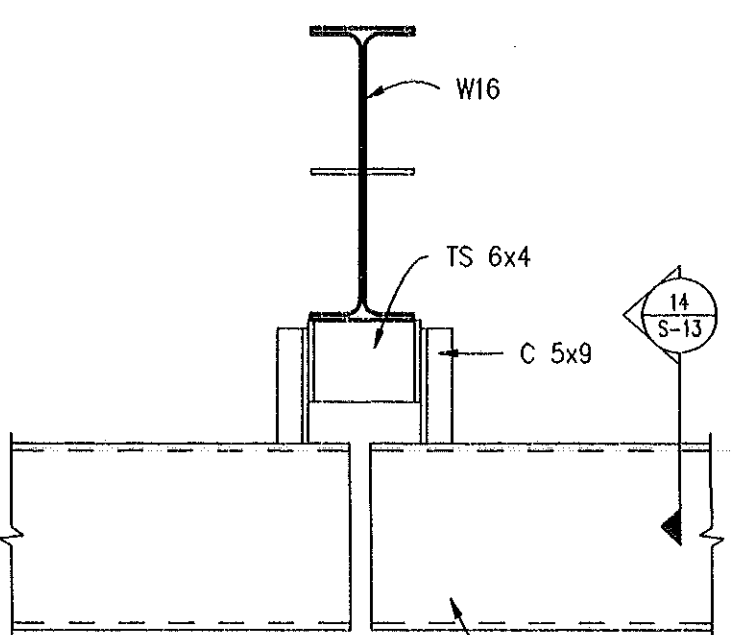
3 DECK TO WALL CONNECTION
S-13



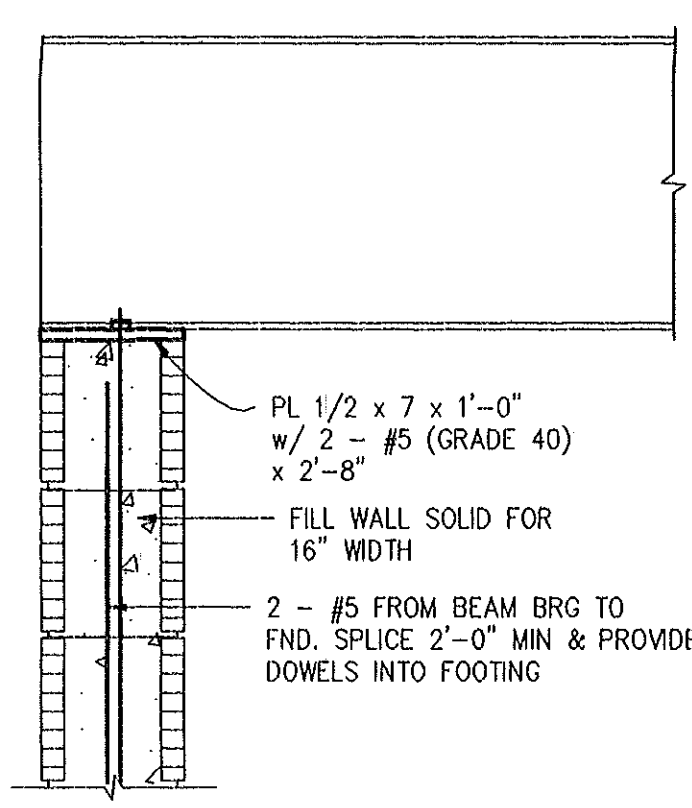
7 CORNER DETAIL @ TS COLUMNS
S-13



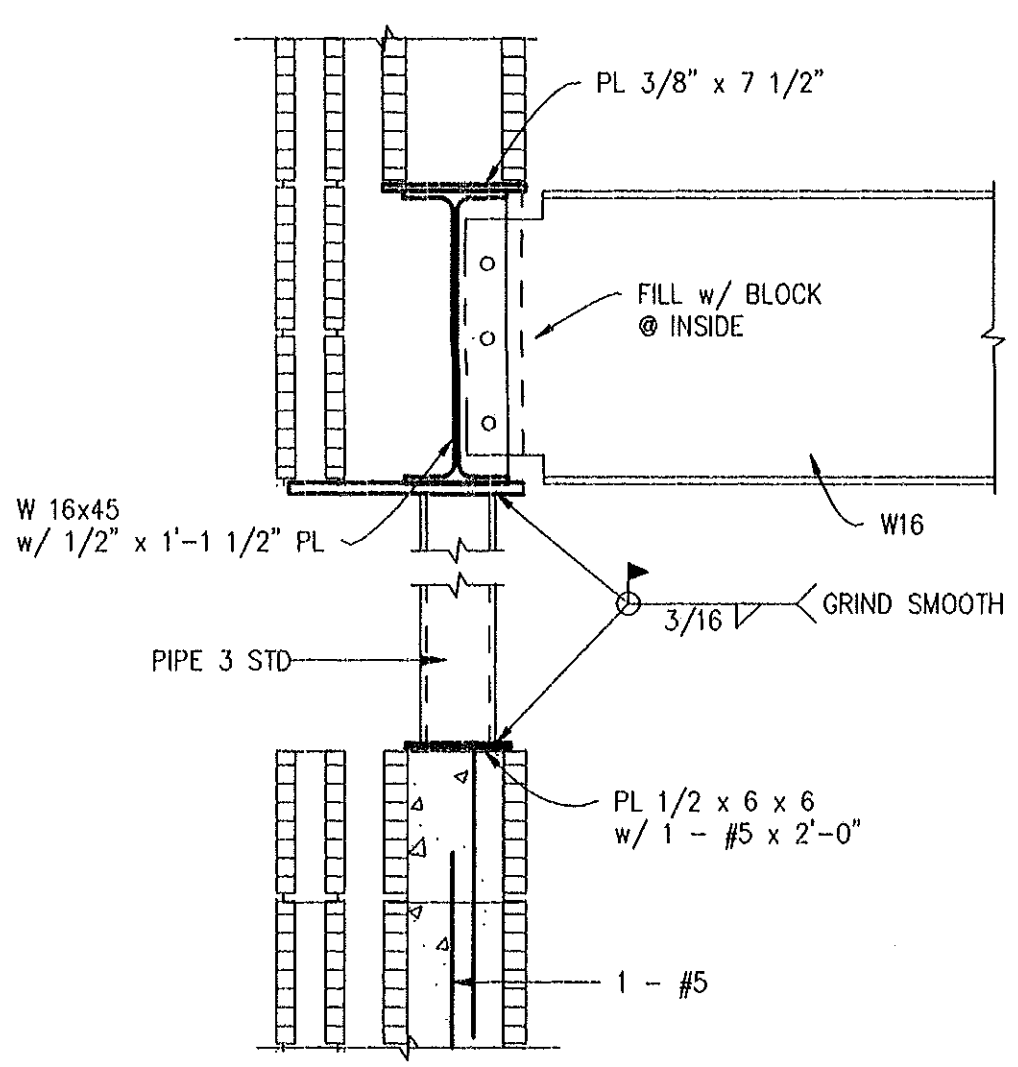
11 TYP FOOTING FOR GYM WALLS & DANCE/DRAMA WALLS
S-13



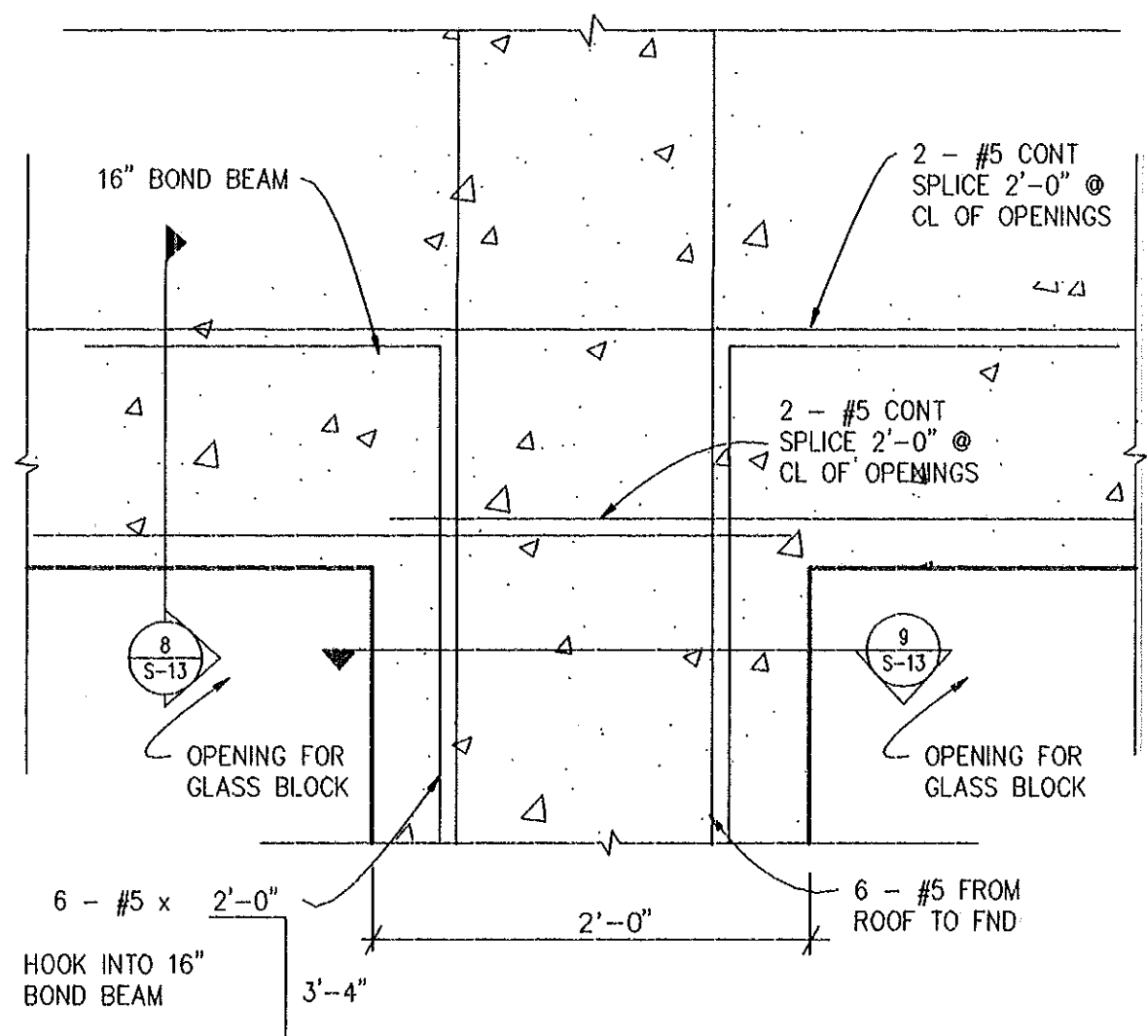
15 MULLION SUPPORT DETAIL
S-13



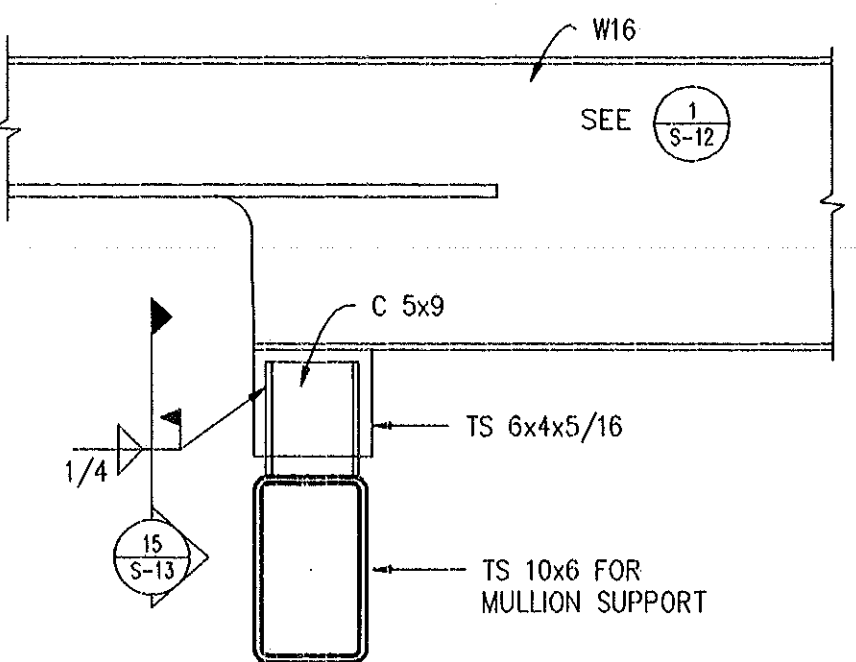
2 BEAM BRG DETAIL
S-13



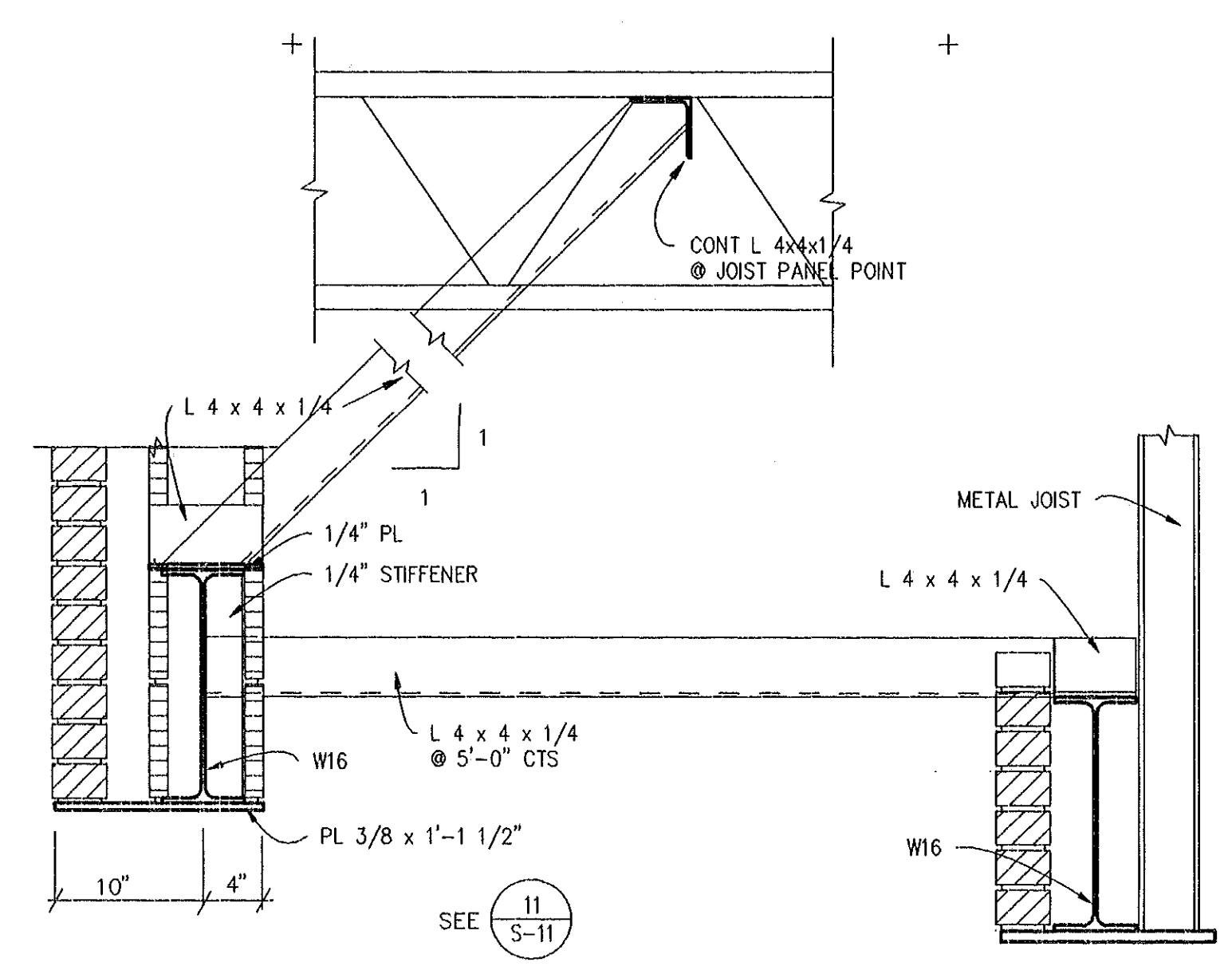
6 LINTEL BEARING DETAIL
S-13



10 LINTEL @ GLASS BLOCKS
S-13



14 MULLION SUPPORT DETAIL
S-13

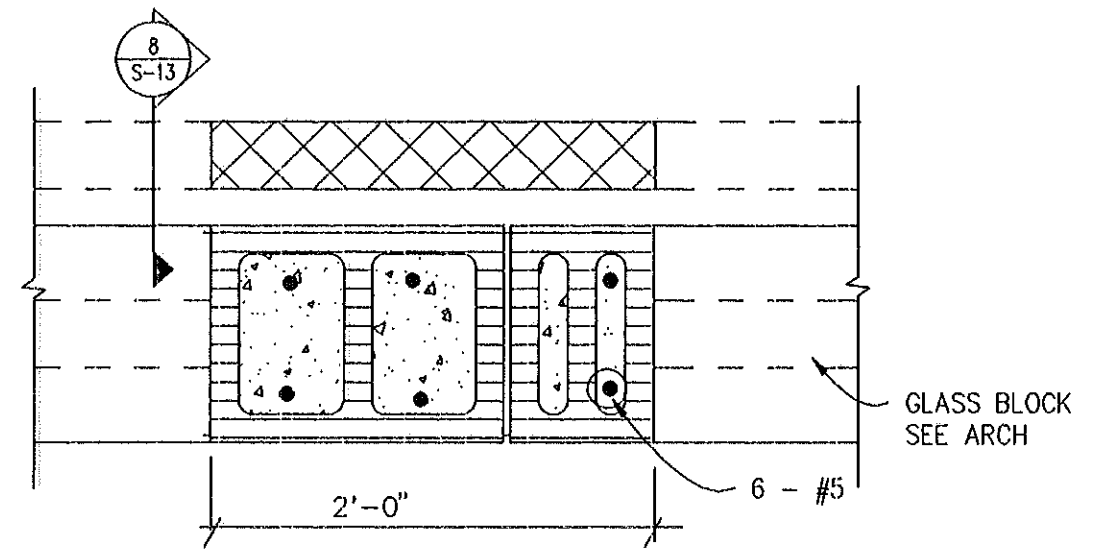


1 LINTEL BEARING DETAIL
S-13

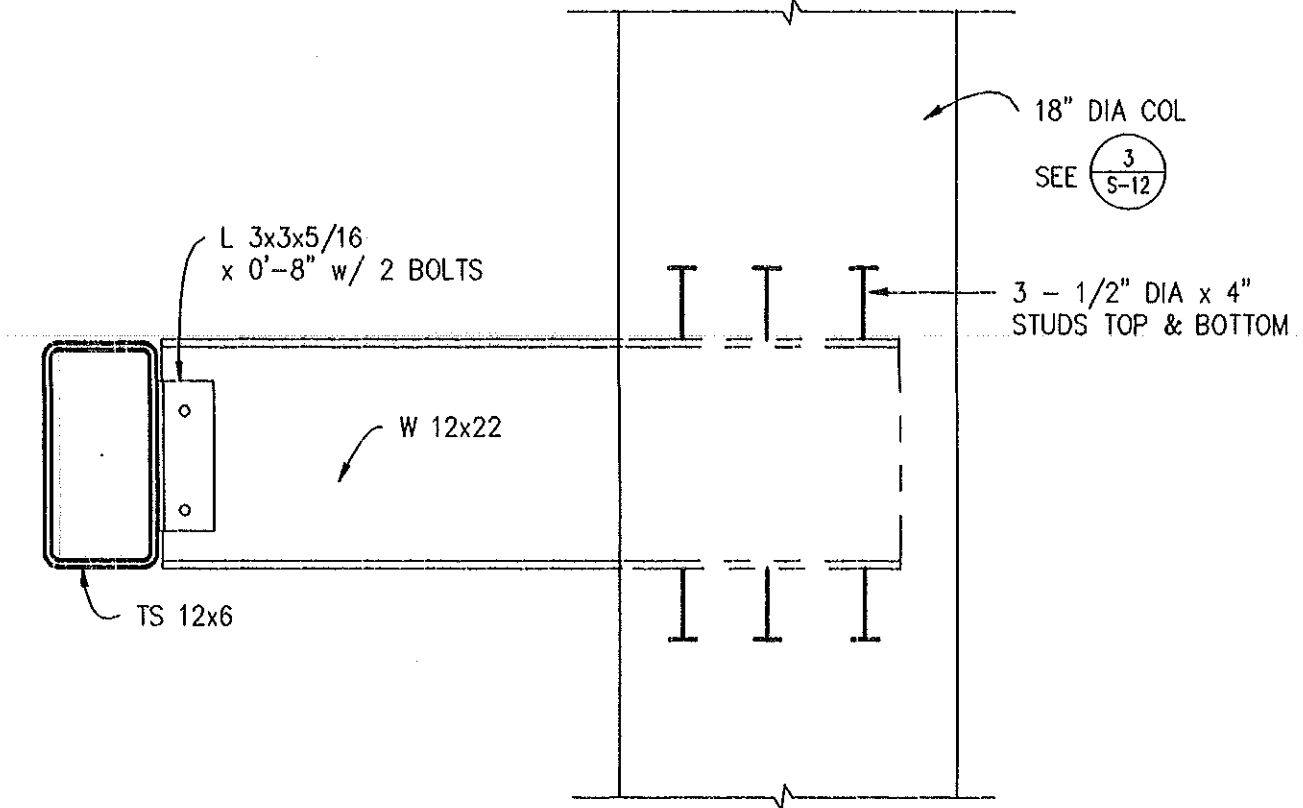
LINTEL SCHEDULE		
OPENING	LINTEL	BEARING
0'-0" TO 1'-4"	* 1 PLATE 3-1/2" X 3/8"	6"
1'-4" TO 4'-0"	* 1 L 3-1/2" X 3-1/2" X 5/16"	8"
4'-0" TO 6'-0"	* 1 L 4" X 3-1/2" X 5/16"	8"
6'-0" TO 8'-0"	* 1 L 5" X 3-1/2" X 5/16"	8"
8'-0" TO 11'-5/8"	* 1 L 5" X 3-1/2" X 5/16"	16"
11'-5/8" TO 15'-0"	* 1 L 5" X 3-1/2" X 5/16"	16"

NOTE: * PER 4" OF WALL THICKNESS
ALL UNSCHEDULED WALL OPENINGS INCLUDING OPENINGS FOR MECHANICAL WORK SHALL BE PROVIDED WITH LINTELS IN ACCORDANCE WITH THIS SCHEDULE.
USE THE FOLLOWING N.C. CONCRETE MASONRY ASSOCIATION STYLES OF LINTEL BLOCKS: NCMA - #23, #27, #31

5 CANOPY COL DETAIL
S-13



9 SECTION @ GLASS BLOCK OPENINGS
S-13



13 MULLION SUPPORT DETAIL
S-13

THE SMITH SINNETT ASSOCIATES, P.A.

Architects • Planners

4601 Lake Boone Trail
Suite 3C
Raleigh, N.C. 27607
919-781-8882

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by: AN

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no.	description	date
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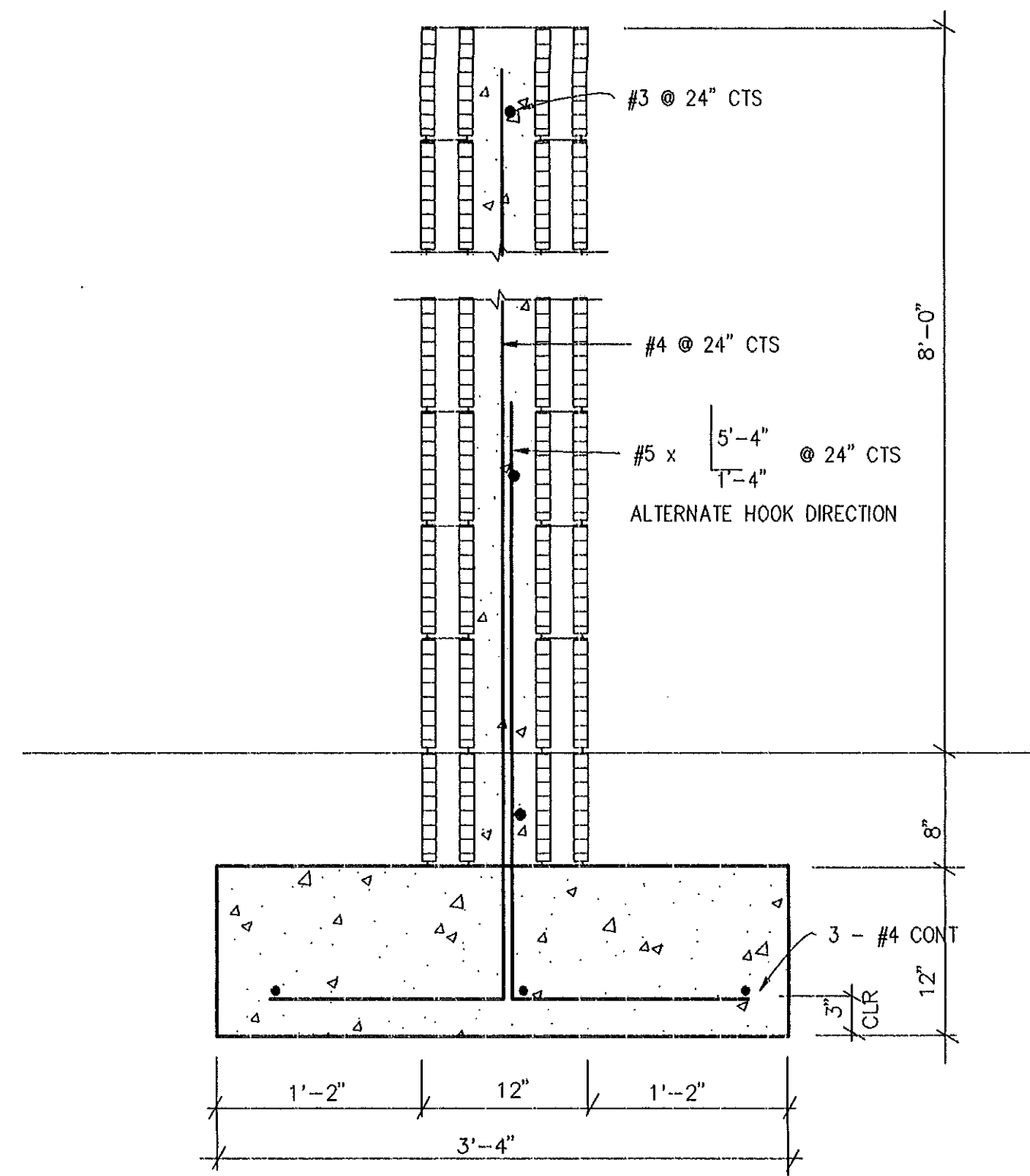
Revisions

New Havelock Middle School

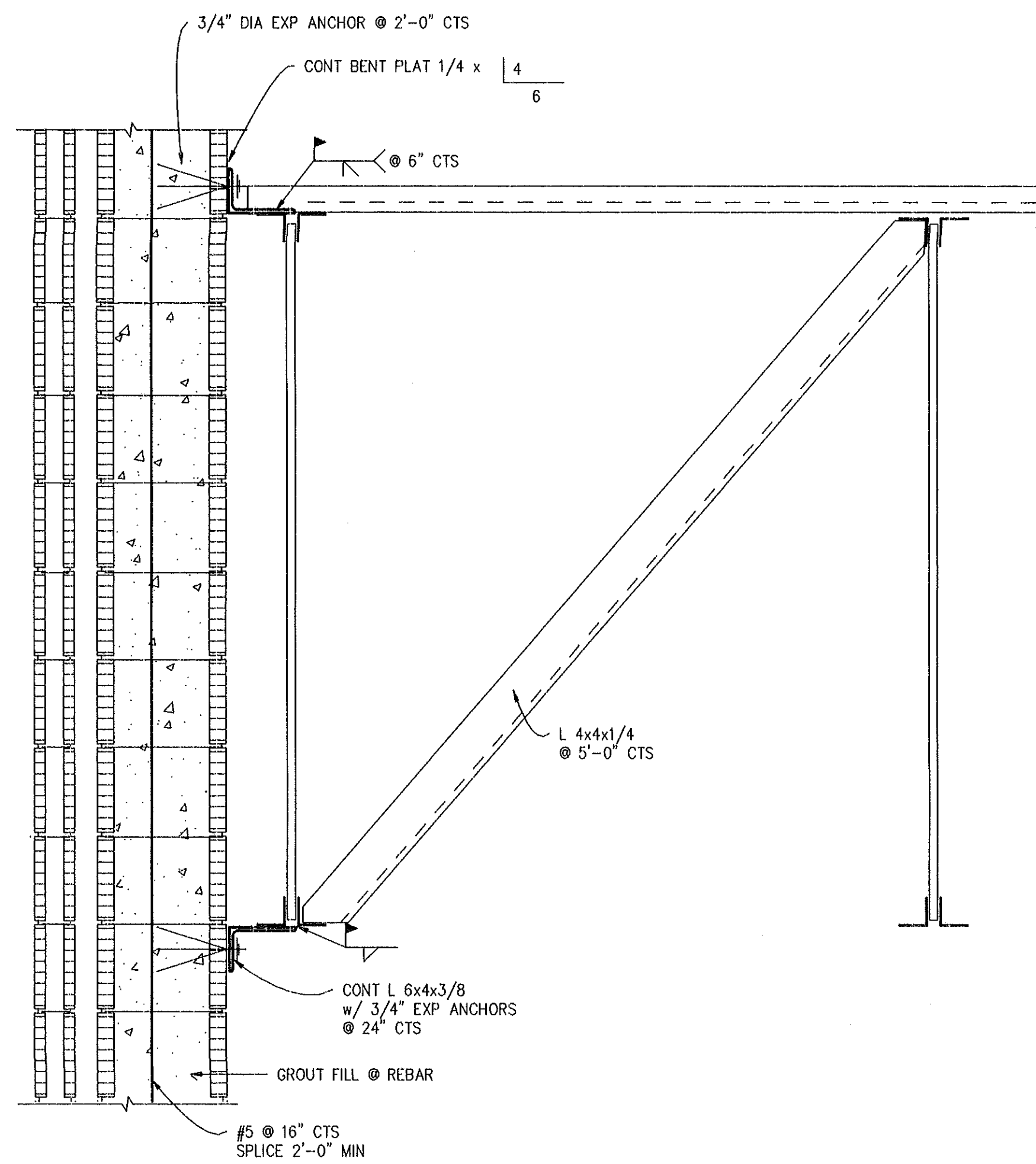
Craven County North Carolina

project title	DETAILS
sheet title	scale:
9502.00	
project no.	sheet no. S-13 of 17
1/15/96	
date	sheet no. S-13

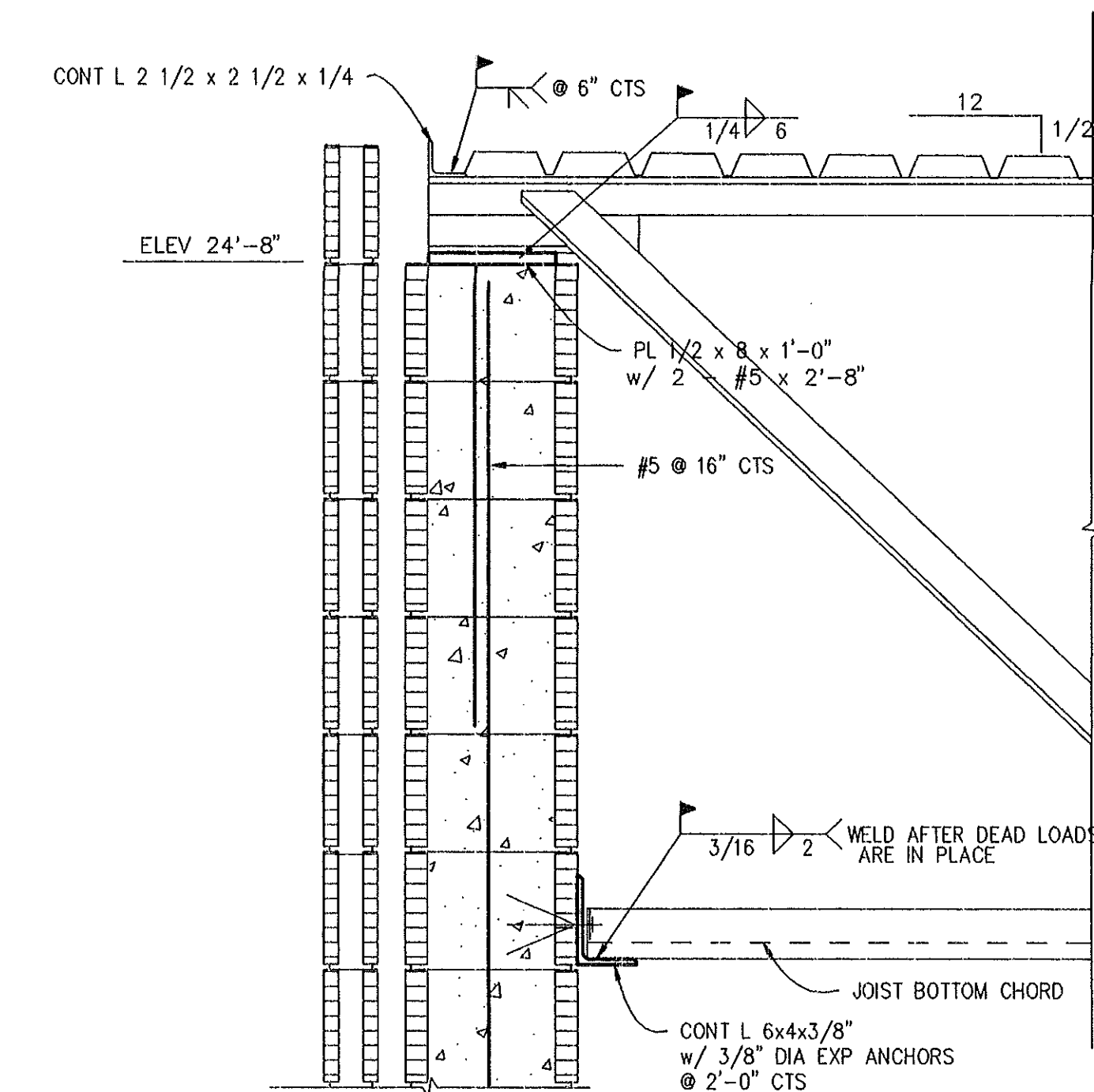
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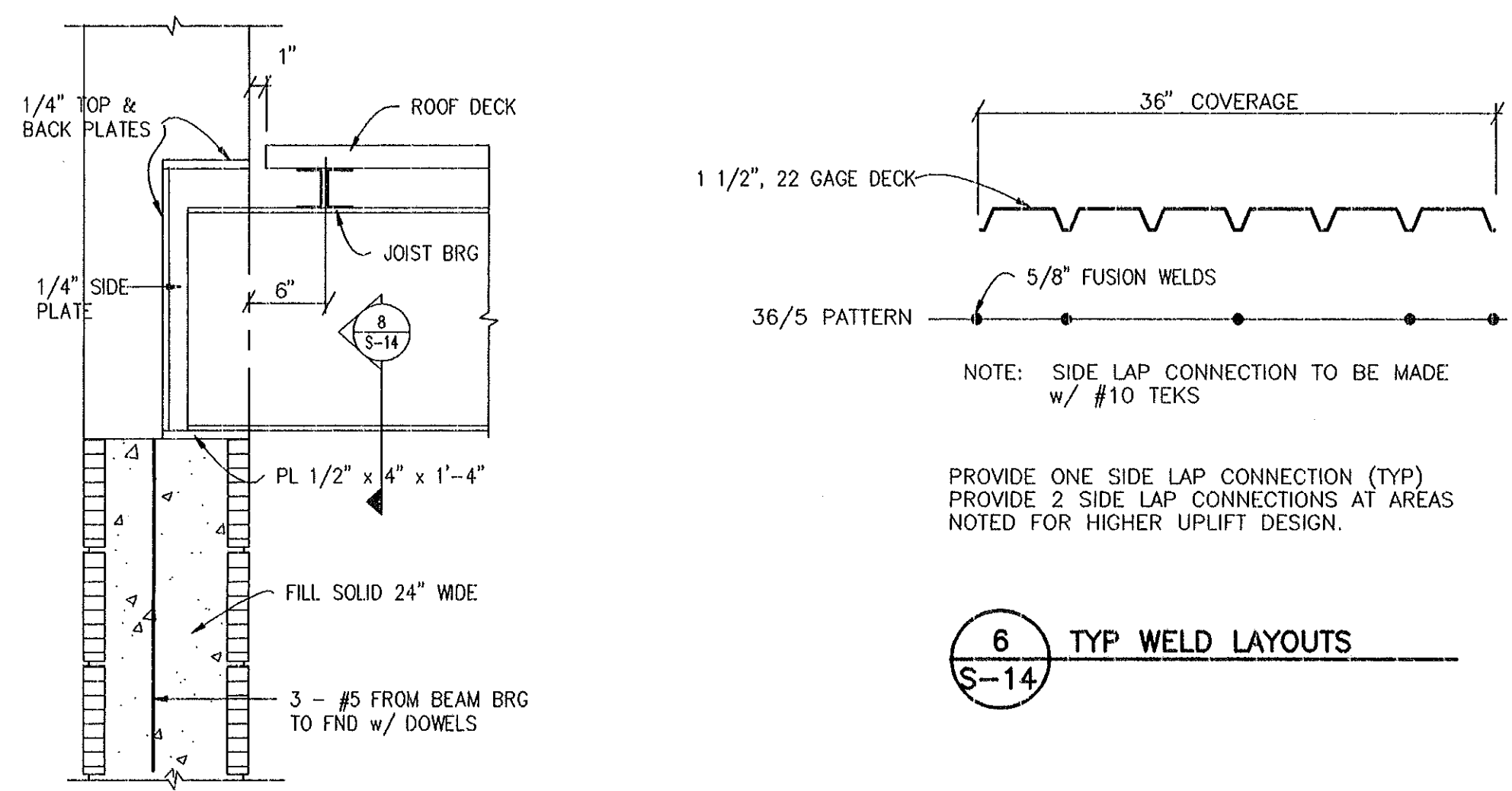
3 SCREEN WALL DETAIL
S-14



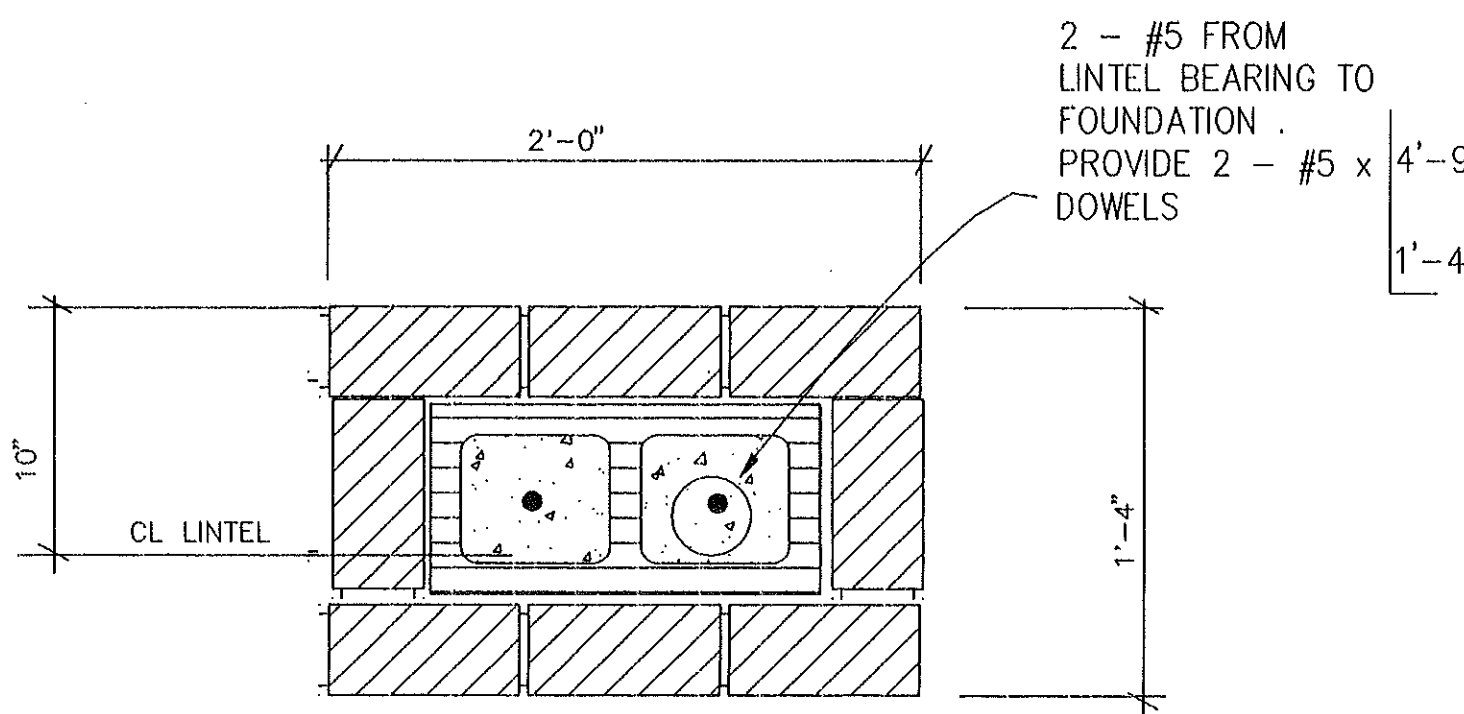
2 END WALL BRACE DETAIL
S-14



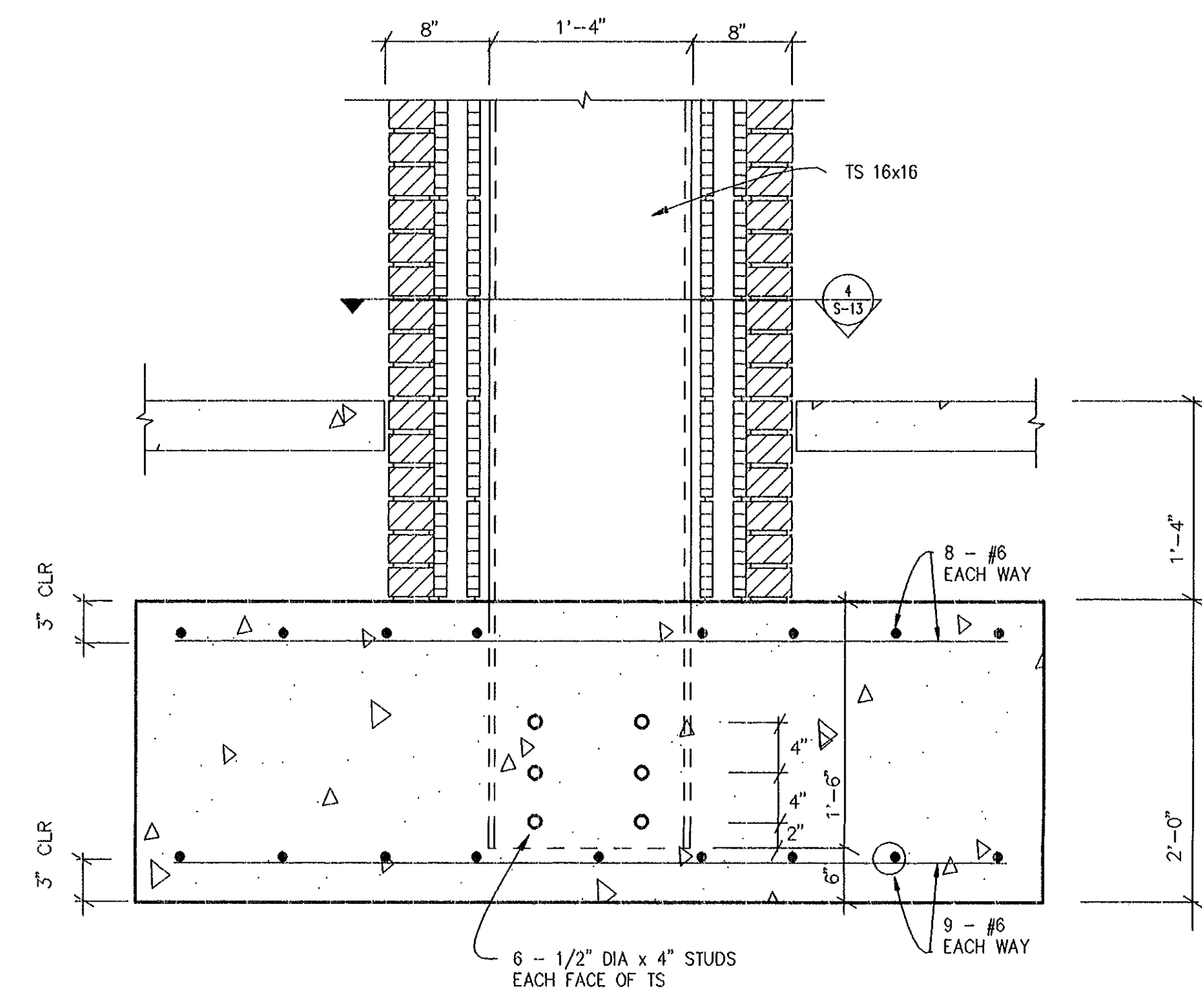
1 JOIST SUPPORT & WALL BRACE DETAIL
S-14



6 TYP WELD LAYOUTS
S-14

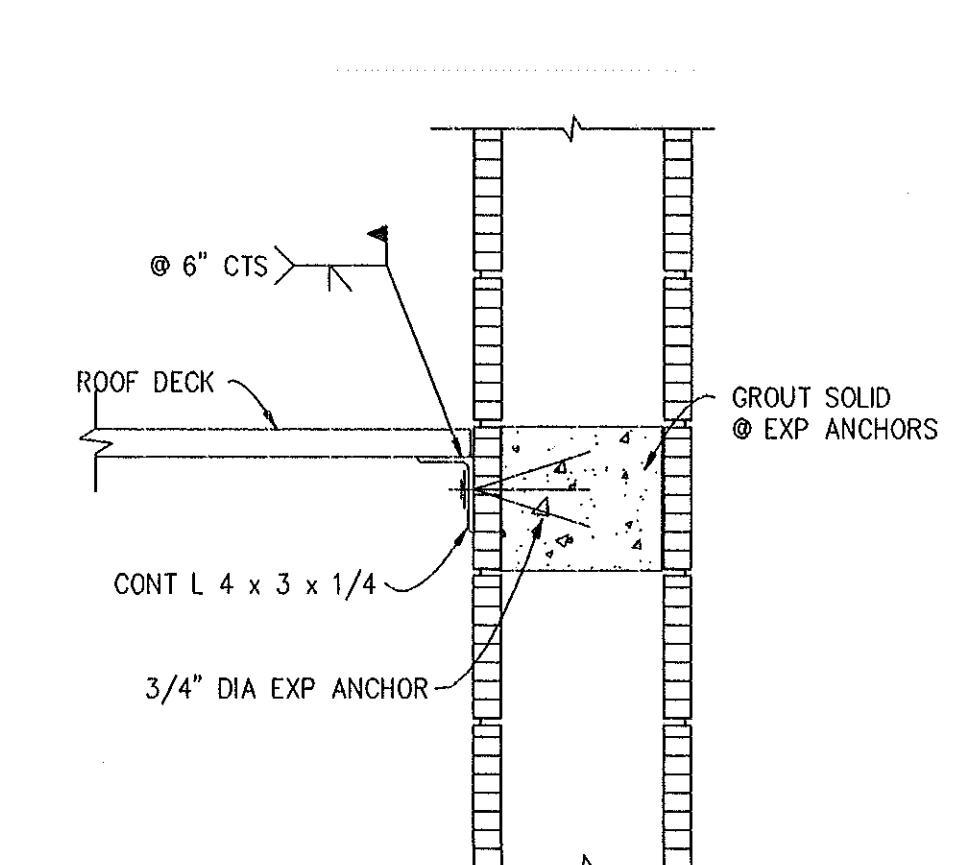
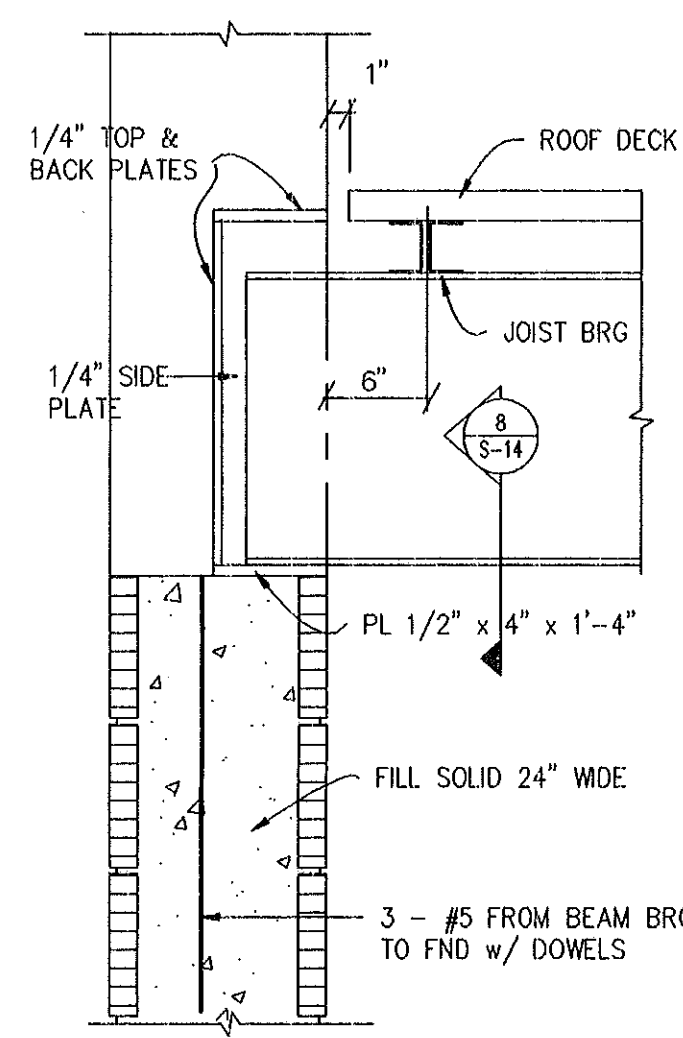


5 PILASTER DETAIL
S-14

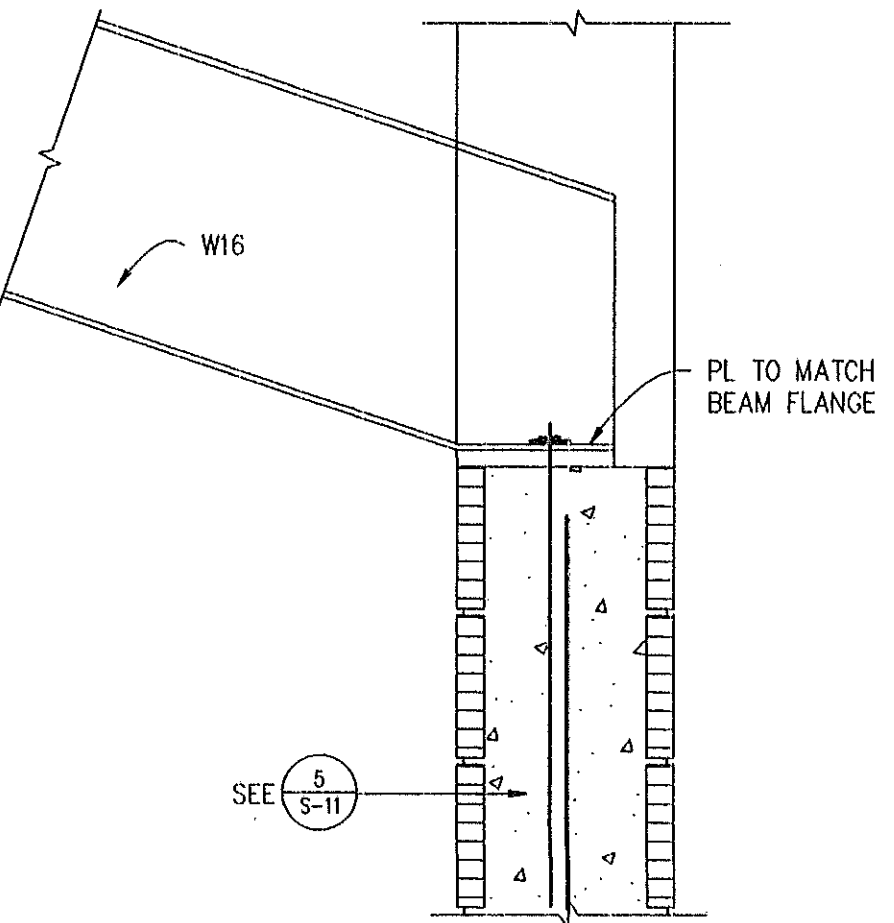


4 CANOPY COL. FOOTING
S-14

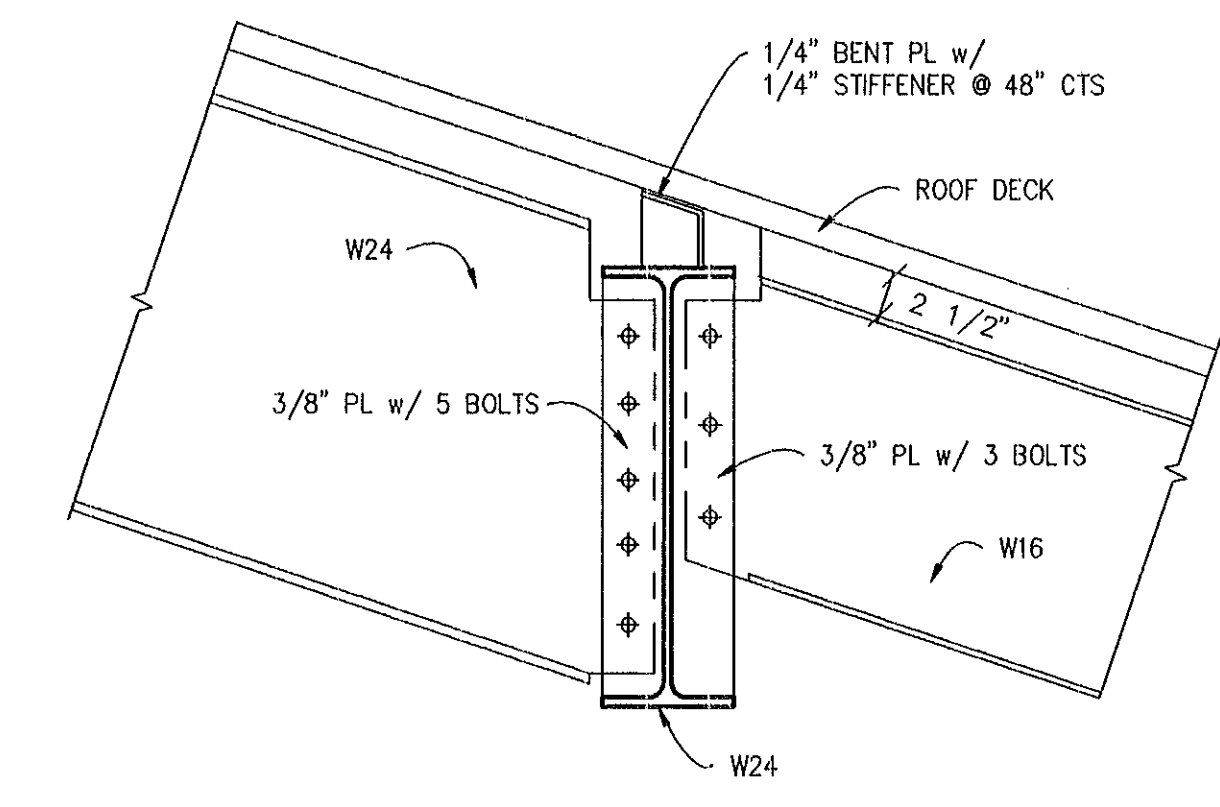
7 BEAM BRG AT EXP JOINT
S-14



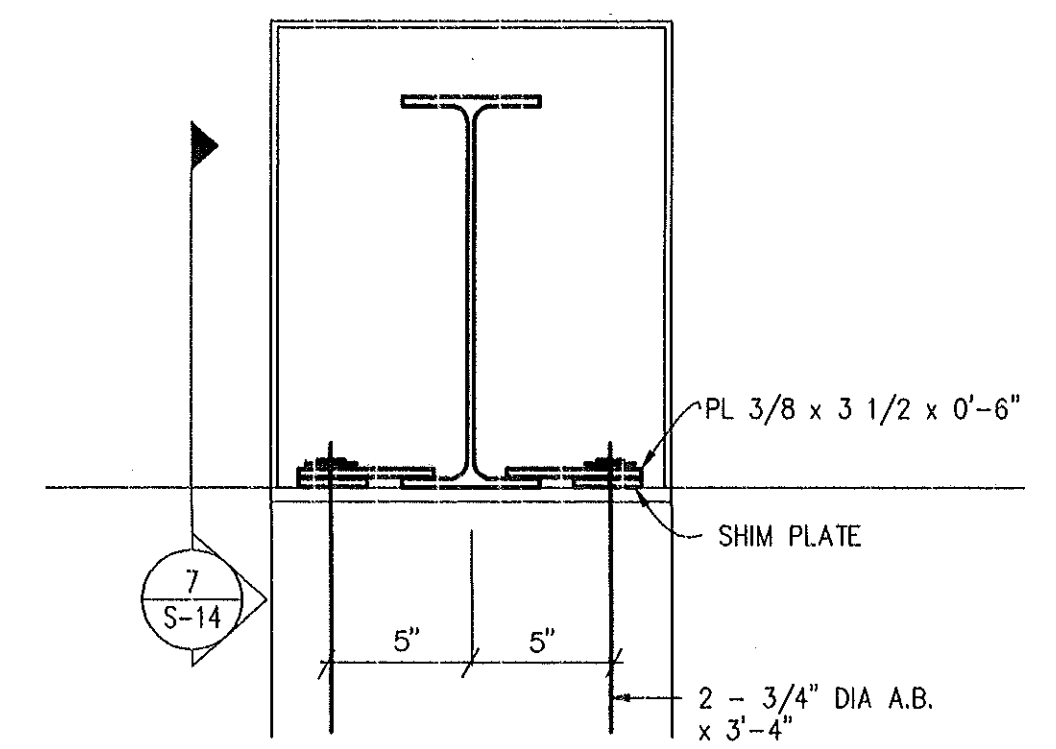
11 DECK TO WALL CONNECTION
S-14



10 SLOPED BEAM BRG
S-14



9 BEAM TO BEAM CONN
S-14



8 BEAM POCKET AT EXP JOINT
S-14

THE SMITH SINNETT ASSOCIATES, P.A.
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Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by: AN

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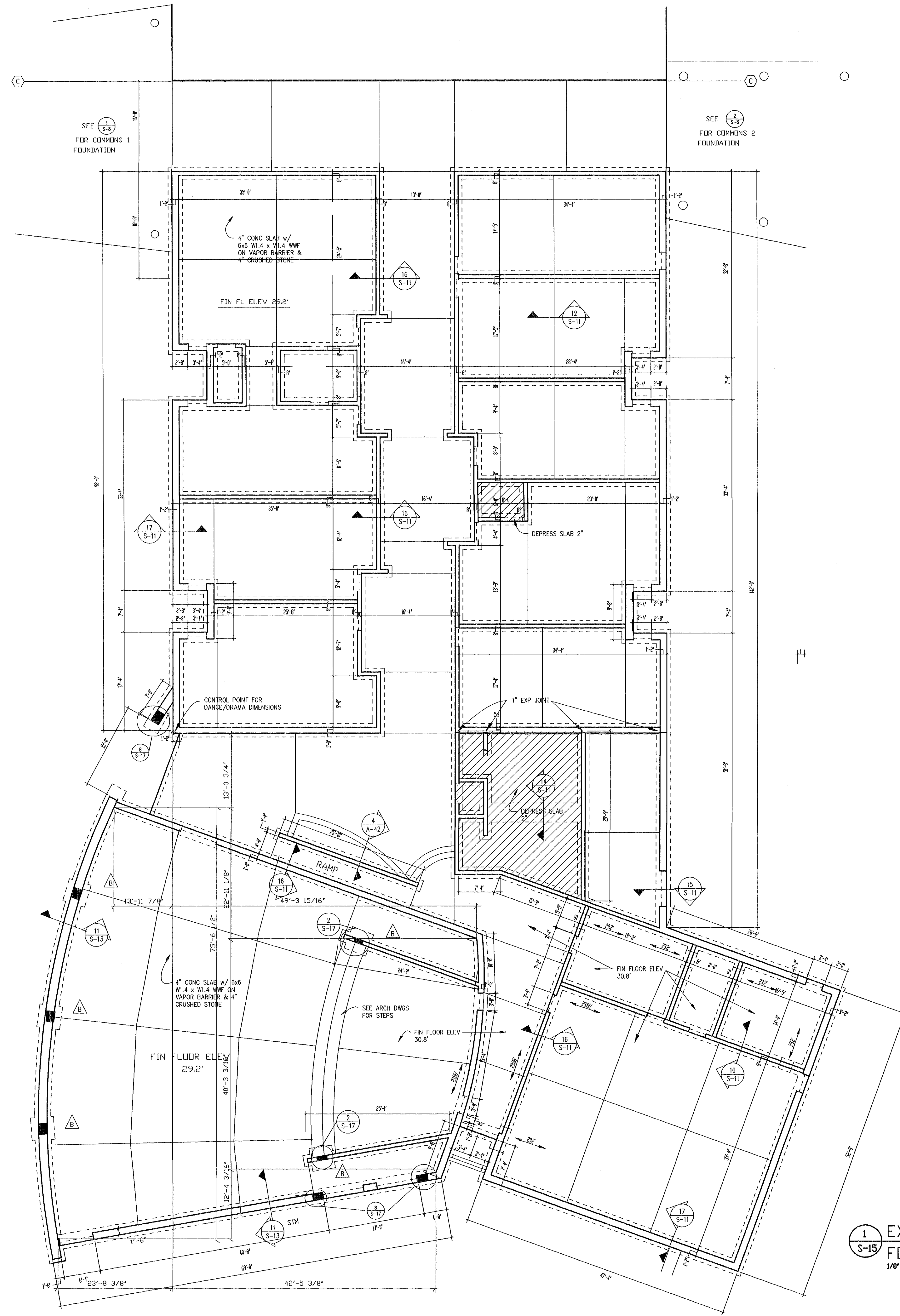
project title
New Havelock Middle School
Craven County North Carolina

DETAILS
sheet title
scale:

9502.00
project no.
1/15/96
date

sheet no. S-14
of: 16

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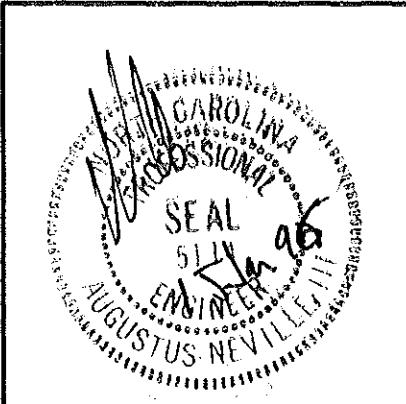


- NOTES:
1. TOP OF EXTERIOR FOOTINGS @ ELEV 27.86' UDN.
 2. TOP OF INTERIOR FOOTINGS @ ELEV 28.52' UDN.
 3. FOOTING ELEVATIONS DENOTED THUS: 26.52'
 4. REFER TO ARCH DWGS FOR ADDITIONAL DIMENSIONS.

1
S-15 EXPLORATORY/ARTS CENTER PLAN
FOUNDATION PLAN
1/8" = 1'-0"

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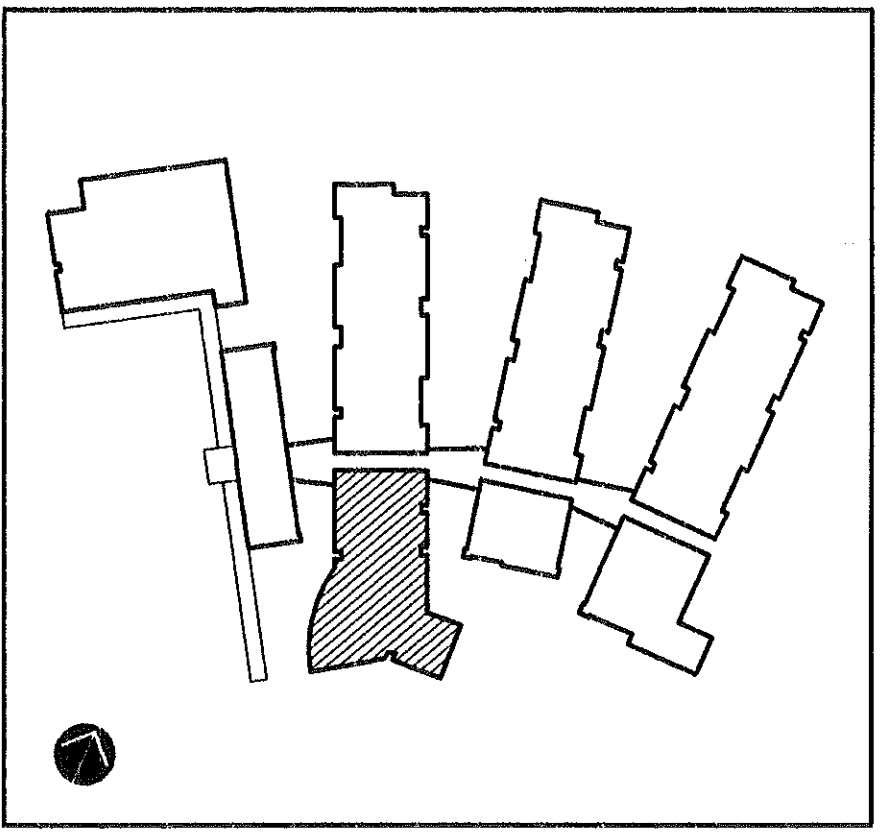


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer:
drawn by: RNL
checked by: AN

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New Havelock
Middle School

Craven County
North Carolina

project title

ARTS CENTER/EXPLORATORY WING 500
FOUNDATION PLAN

sheet title

scale:

9502.00
project no.

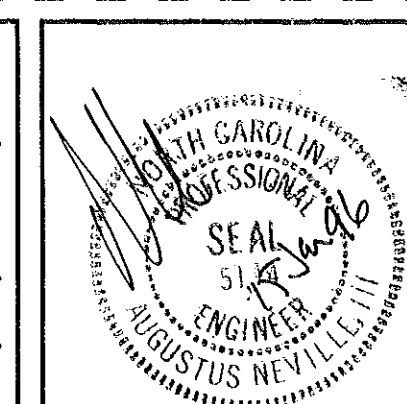
sheet no. S-15 of 17

1/15/96
date

sheet no. S-15

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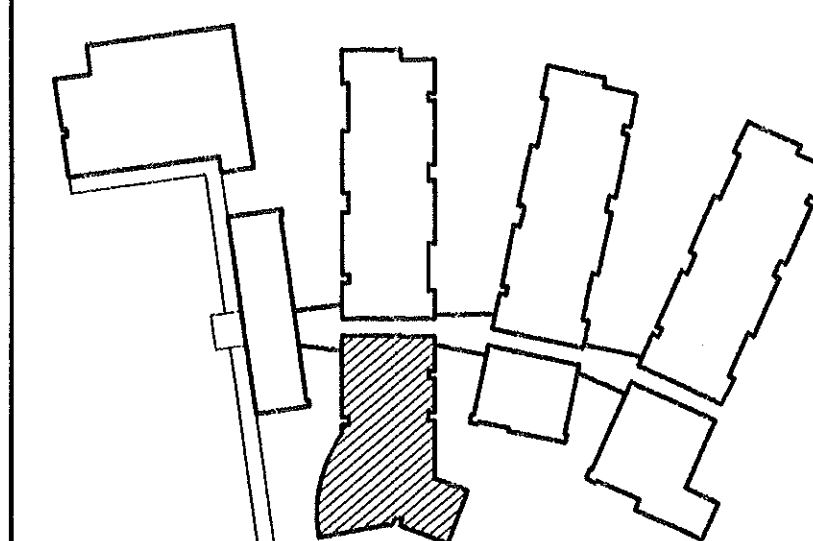


consultant

Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer:
drawn by: RNL
checked by: AN

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Revisions		



New Havelock
Middle School

Craven County
North Carolina

project title

ARTS CENTER/EXPLORATORY WING 500
FOUNDATION PLAN

sheet title

scale

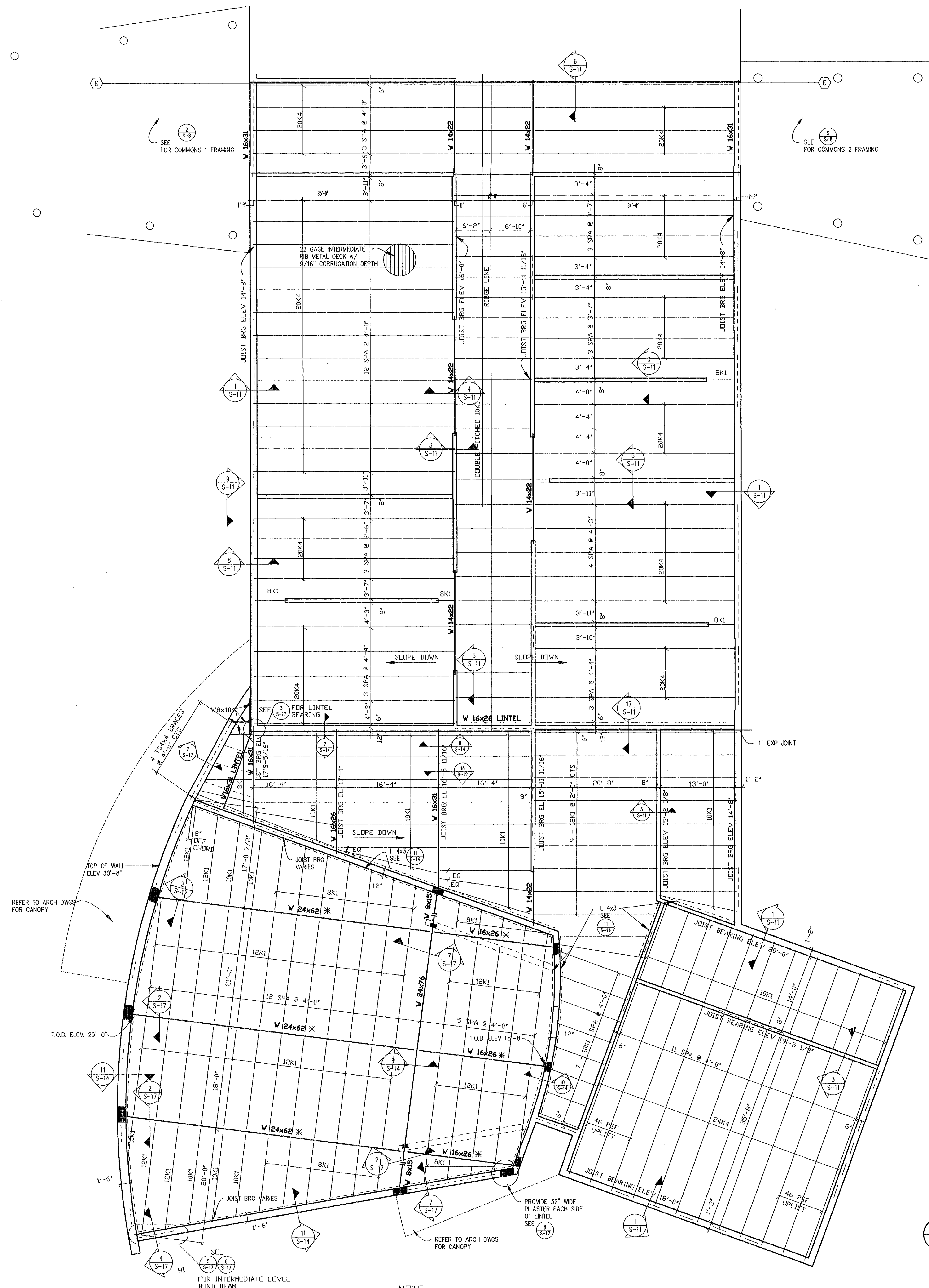
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sheet no. S-16 , of: 17

1/15/96
date

sheet no. S-1E

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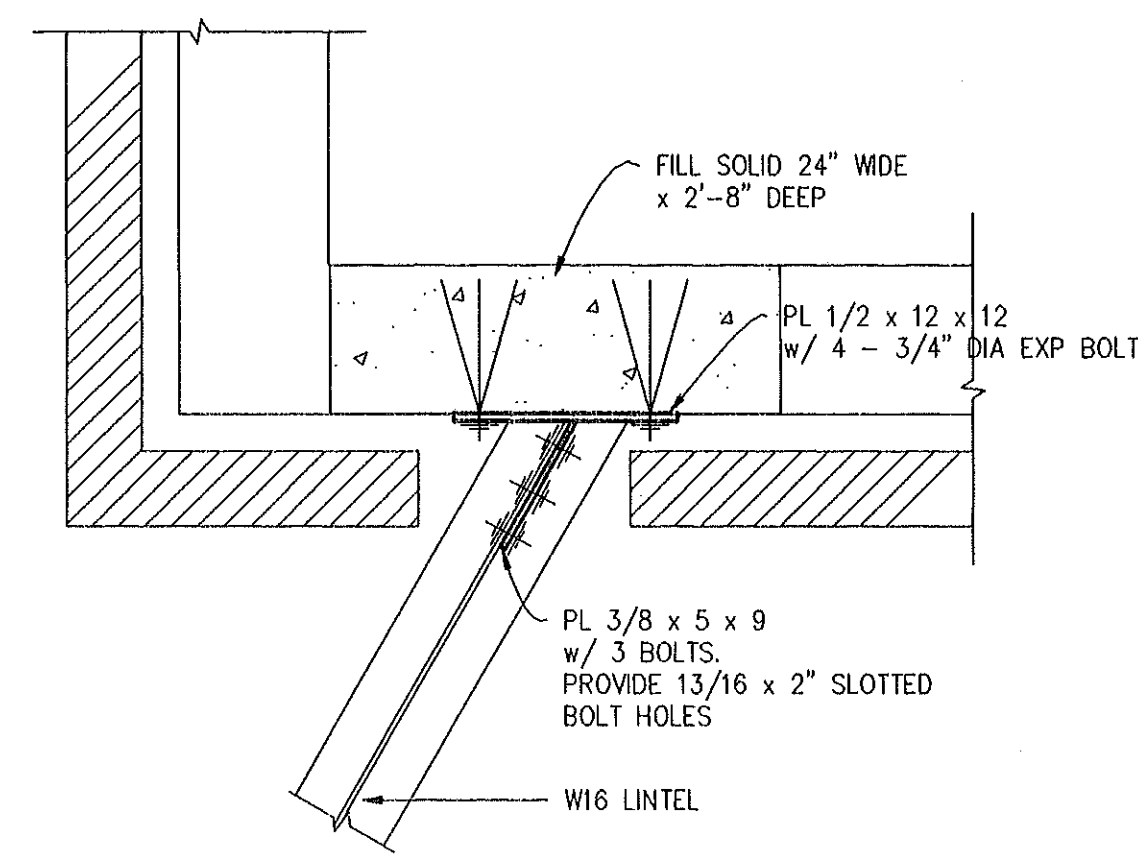


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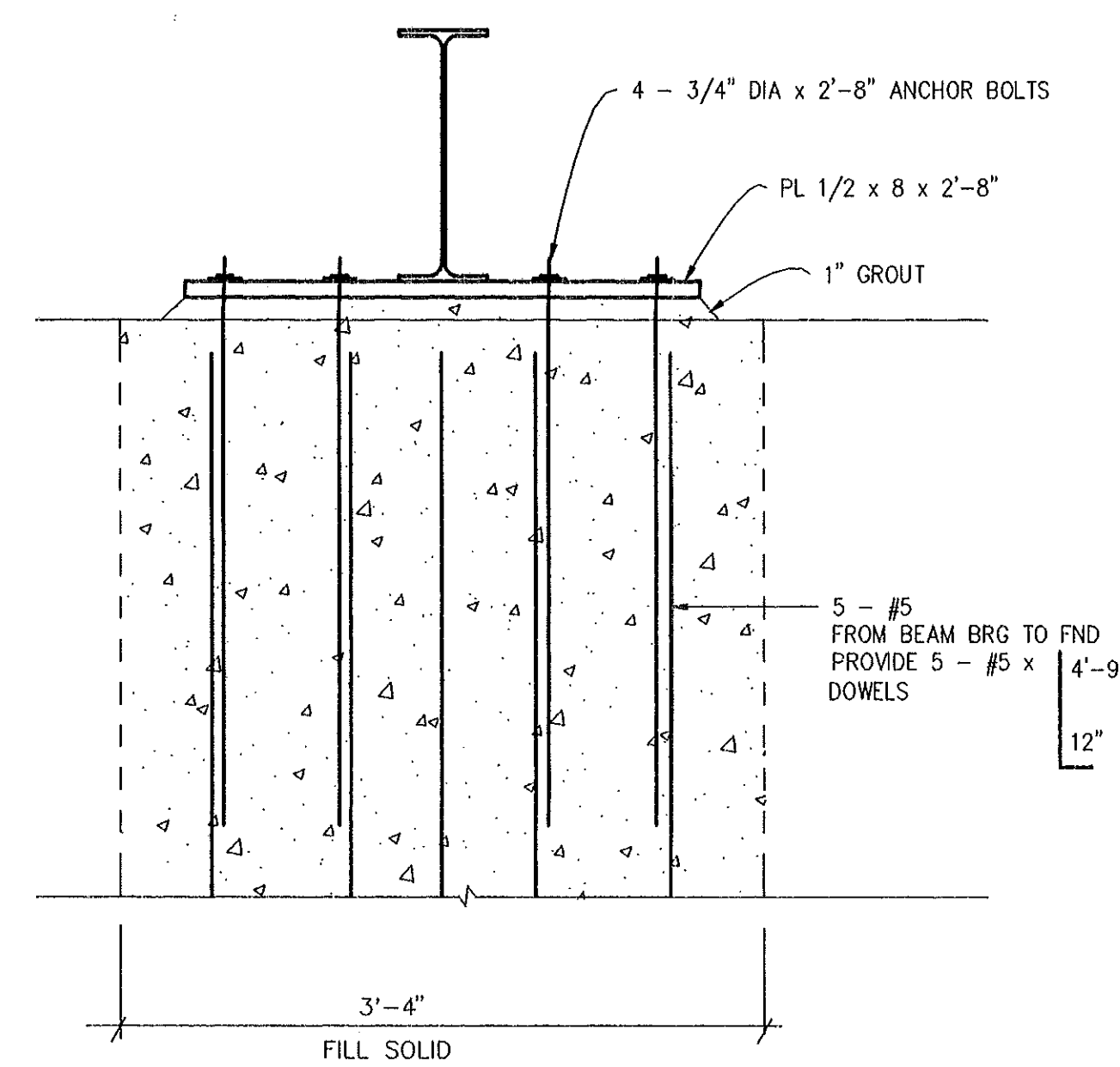
1. JOIST TO BE DESIGNED FOR NET UPLIFT OF 35 PSF U.O.N.
2. BEAMS DENOTED THUS * ARE TO BE BENT TO 33'-0" RADIUS.
3. ALL JOIST FOR DANCE/DRAMA BUILDING TO BE DESIGNED FOR 46 PSF UPLIFT.

1 EXPLORATORY/ARTS CENTER PLAN
S-16 ROOF FRAMING PLAN
1/8" = 1'-0"

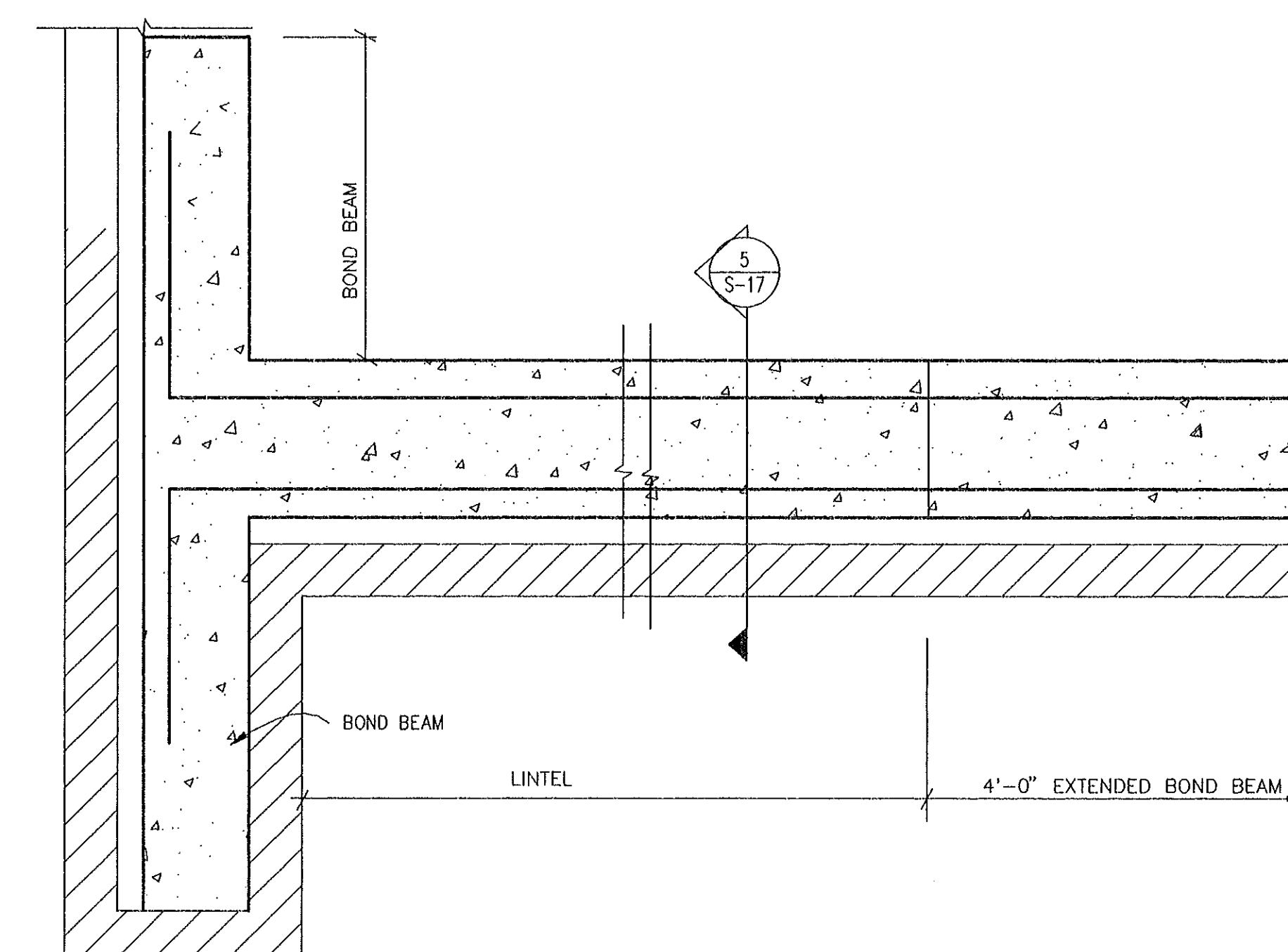
NOTE:
(*) DENOTES BEAMS BENT TO RADIUS



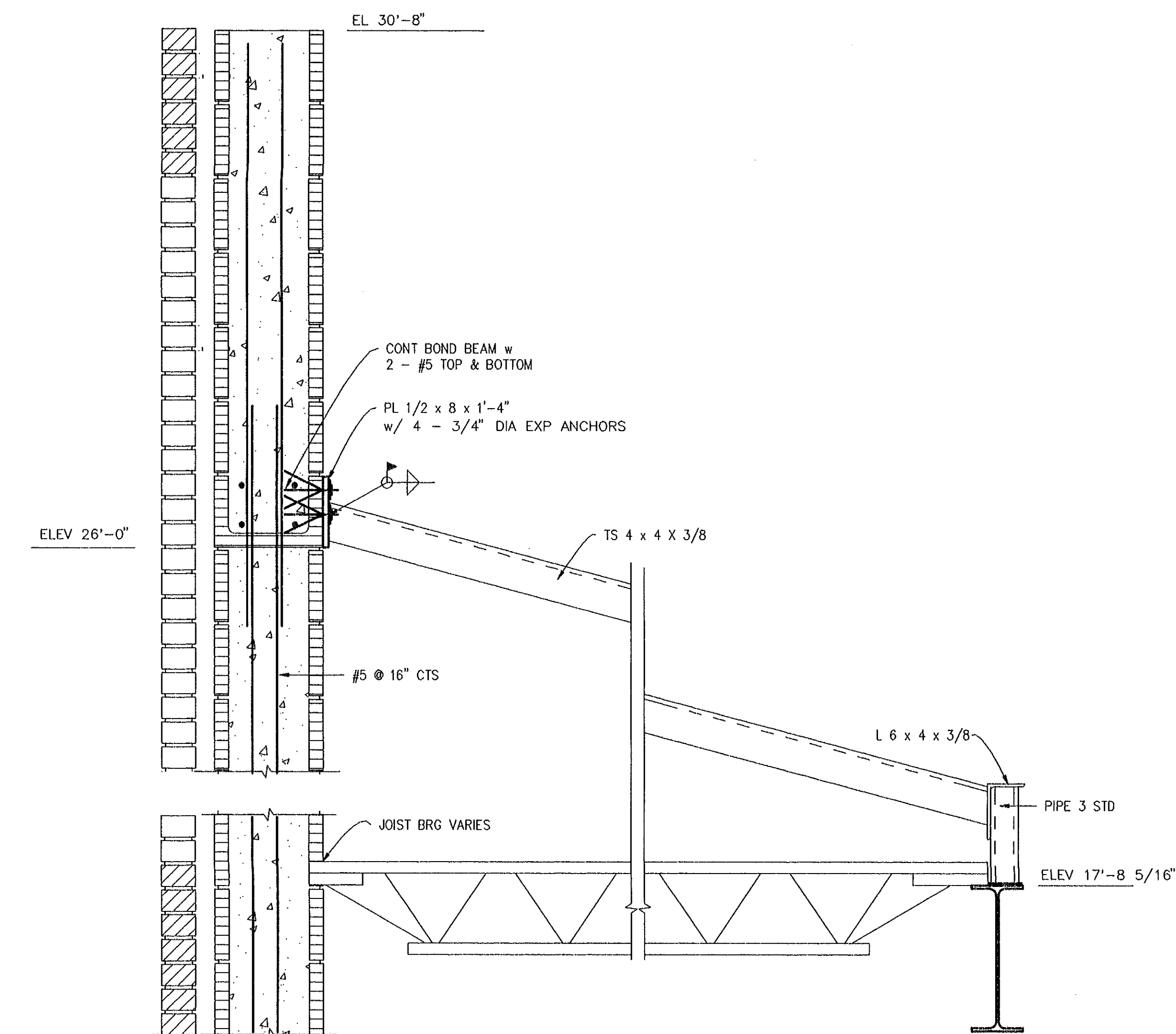
3 LINTEL BEARING AT EXP JOINT
S-17



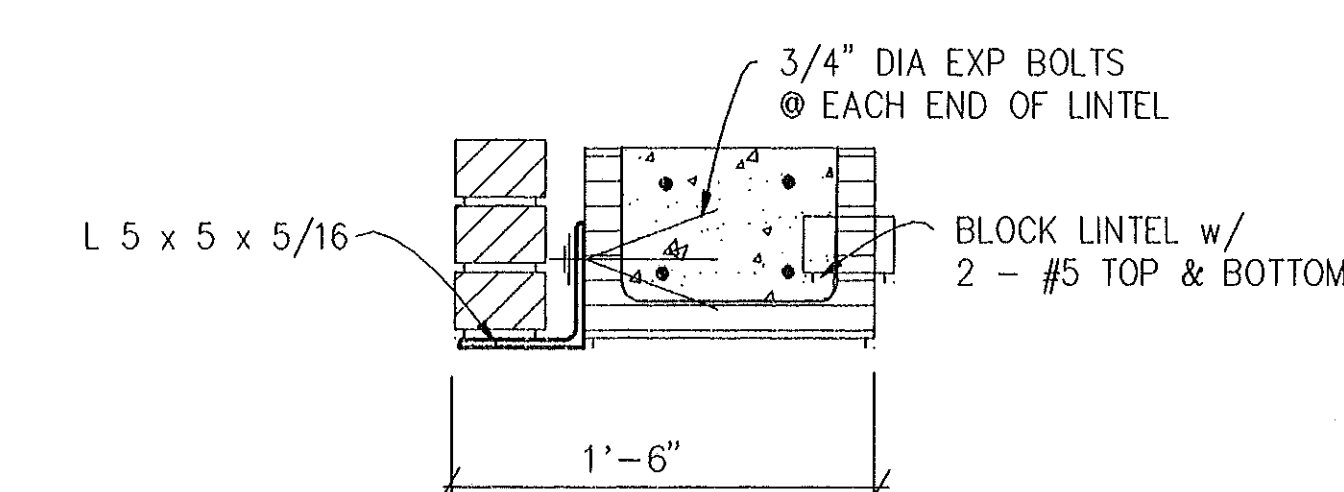
2 BEAM BEARING DETAIL
S-17



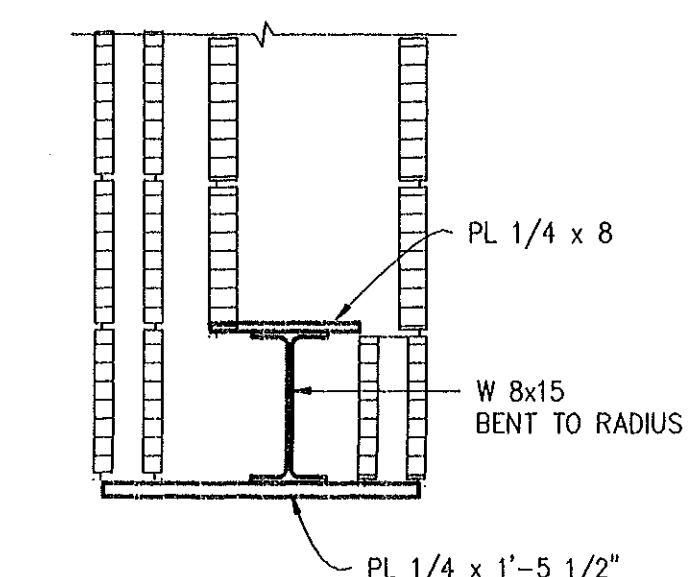
6 INTERMEDIATE LINTEL DETAIL
S-17



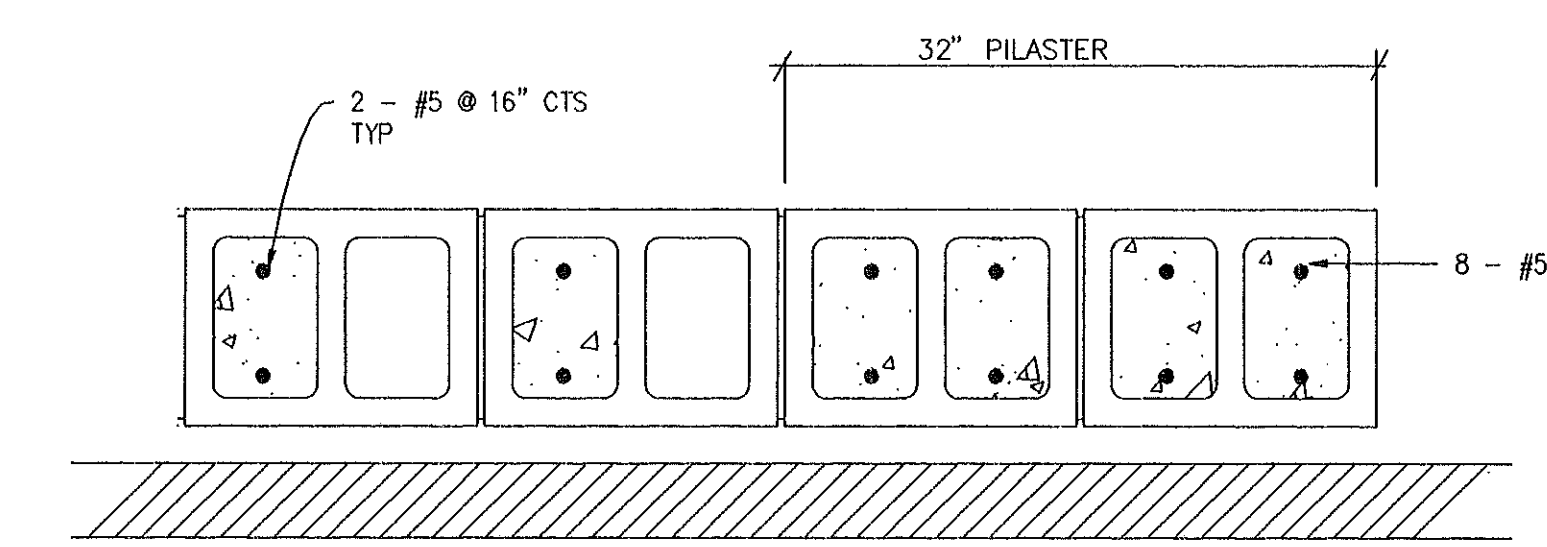
1 WALL BRACE DETAIL
S-17



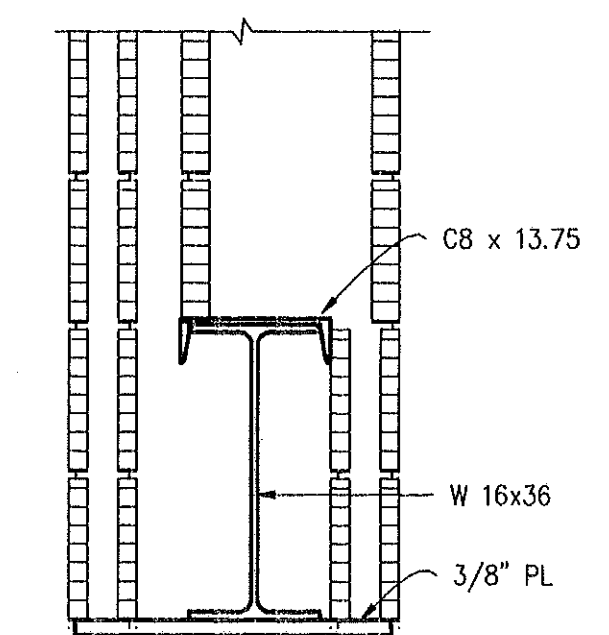
5 INTERMEDIATE LINTEL DETAIL
S-17



4 LINTEL DETAIL
S-17



8 PILASTER DETAIL
S-17



7 LINTEL DETAIL
S-17 SEE 11/S-11 FOR BEARING DETAIL

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consultant

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Project Architect: JFS
Project Engineer: RNL
drawn by: AN
checked by: AN

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scale:

9502.00
project no.

1/15/96
date

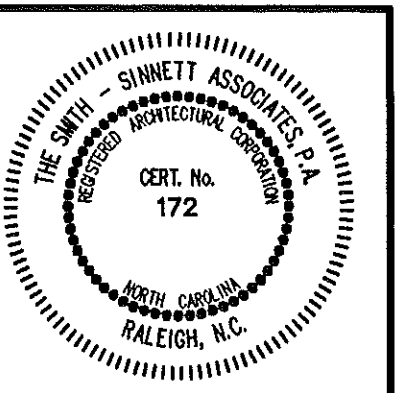
sheet no. S-17 of: 17

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ASSOCIATES, P.A.**

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Project Engineer: **LFC, CBL, SMWF, DVC**
drawn by: **RA**
checked by:

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DRAWINGS**

6-8-98

no. description date
Revisions

**New Havelock
Middle School**

Craven County
North Carolina

project title

**COMPOSITE FLOOR PLAN
WALL TYPES PLAN
PLAZA PATTERN PLAN**

sheet title scale:

F9502.01

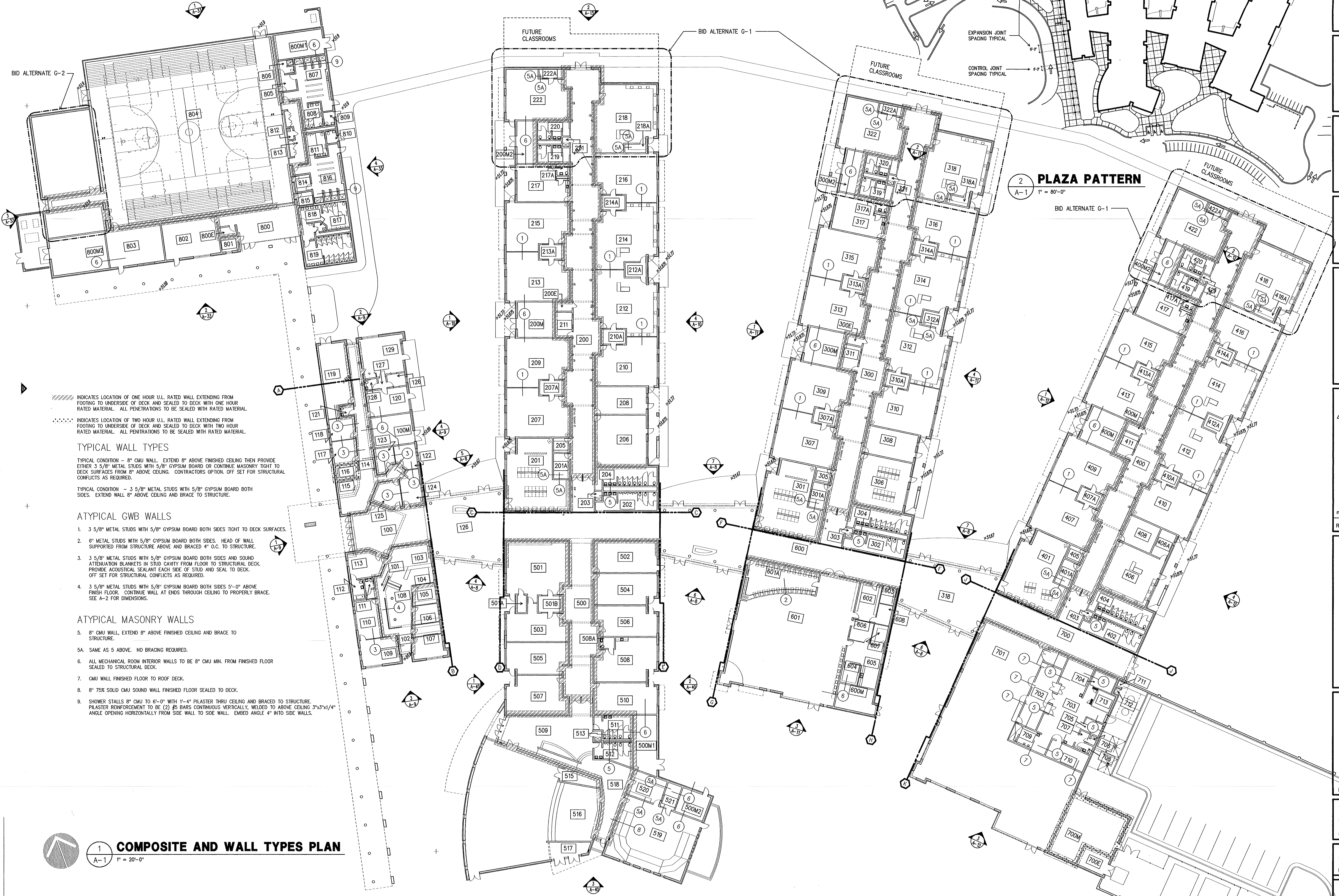
project no.

1/15/98
date

sheet no. 1 of 43

A-1
sheet no.

released for construction 1/15/98



INDICATES LOCATION OF ONE HOUR U.L. RATED WALL EXTENDING FROM FOOTING TO UNDERSIDE OF DECK AND SEALED TO DECK WITH ONE HOUR RATED MATERIAL. ALL PENETRATIONS TO BE SEALED WITH RATED MATERIAL.

INDICATES LOCATION OF TWO HOUR U.L. RATED WALL EXTENDING FROM FOOTING TO UNDERSIDE OF DECK AND SEALED TO DECK WITH TWO HOUR RATED MATERIAL. ALL PENETRATIONS TO BE SEALED WITH RATED MATERIAL.

TYPICAL WALL TYPES

TYPICAL CONDITION - 8" CMU WALL, EXTEND 8" ABOVE FINISHED CEILING THEN PROVIDE EITHER 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD OR CONTINUE MASONRY TIGHT TO DECK SURFACES FROM 8" ABOVE CEILING. CONTRACTORS OPTION, OFF SET FOR STRUCTURAL CONFLICTS AS REQUIRED.

TYPICAL CONDITION - 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD BOTH SIDES, EXTEND WALL 8" ABOVE CEILING AND BRACE TO STRUCTURE.

ATYPICAL GWB WALLS

- 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD BOTH SIDES TIGHT TO DECK SURFACES.
- 6" METAL STUDS WITH 5/8" GYPSUM BOARD BOTH SIDES, HEAD OF WALL SUPPORTED FROM STRUCTURE ABOVE AND BRACED 4" O.C. TO STRUCTURE.
- 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD BOTH SIDES AND SOUND ATTENUATION BLANKETS IN STUD CAVITY FROM FLOOR TO STRUCTURAL DECK, PROVIDE ACOUSTICAL SEALANT EACH SIDE OF STUD AND SEAL TO DECK, OFF SET FOR STRUCTURAL CONFLICTS AS REQUIRED.
- 3 5/8" METAL STUDS WITH 5/8" GYPSUM BOARD BOTH SIDES 5'-0" ABOVE FINISH FLOOR, CONTINUE WALL AT ENDS THROUGH CEILING TO PROPERLY BRACE, SEE A-2 FOR DIMENSIONS.

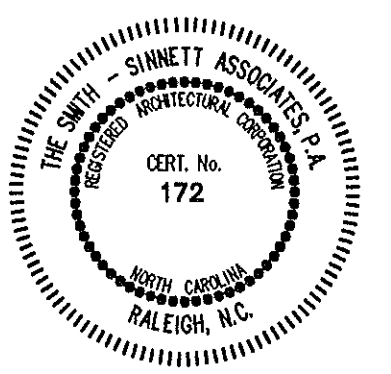
ATYPICAL MASONRY WALLS

- 8" CMU WALL, EXTEND 8" ABOVE FINISHED CEILING AND BRACE TO STRUCTURE.
- SAME AS 5 ABOVE. NO BRACING REQUIRED.
- ALL MECHANICAL ROOM INTERIOR WALLS TO BE 8" CMU MIN. FROM FINISHED FLOOR SEALED TO STRUCTURAL DECK.
- CMU WALL FINISHED FLOOR TO ROOF DECK.
- 8" 75% SOLID CMU SOUND WALL FINISHED FLOOR SEALED TO DECK.
- SHOWER STALLS 8" CMU TO 6'-0" WITH 1'-4" PILASTER THRU CEILING AND BRACED TO STRUCTURE, PILASTER REINFORCEMENT TO BE (2) #5 BARS CONTINUOUS VERTICALLY, WELDED TO ABOVE CEILING 3'-3"x1/4" ANGLE OPENING HORIZONTALLY FROM SIDE WALL TO SIDE WALL, EMBED ANGLE 4" INTO SIDE WALLS.

**1 COMPOSITE AND WALL TYPES PLAN
A-1 1" = 20'-0"**

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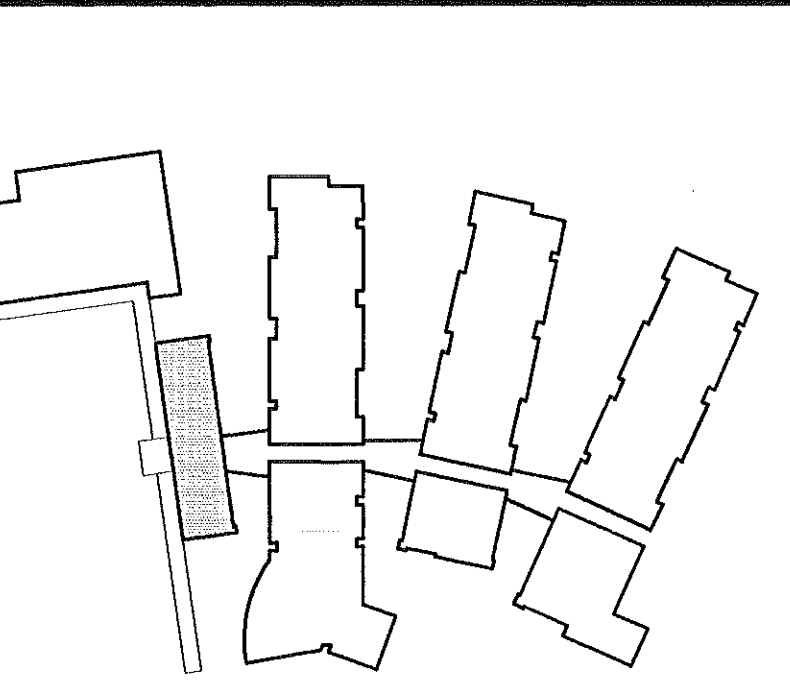


Project Manager: John F. Sinnett, AIA
Project Architect: JFS
Project Engineer: LFC, ABD
drawn by: JFS
checked by: JFS

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RECORD DRAWINGS

no. description date



New Havelock Middle School

Craven County
North Carolina

project title

ADMINISTRATION WING 100 FLOOR PLAN

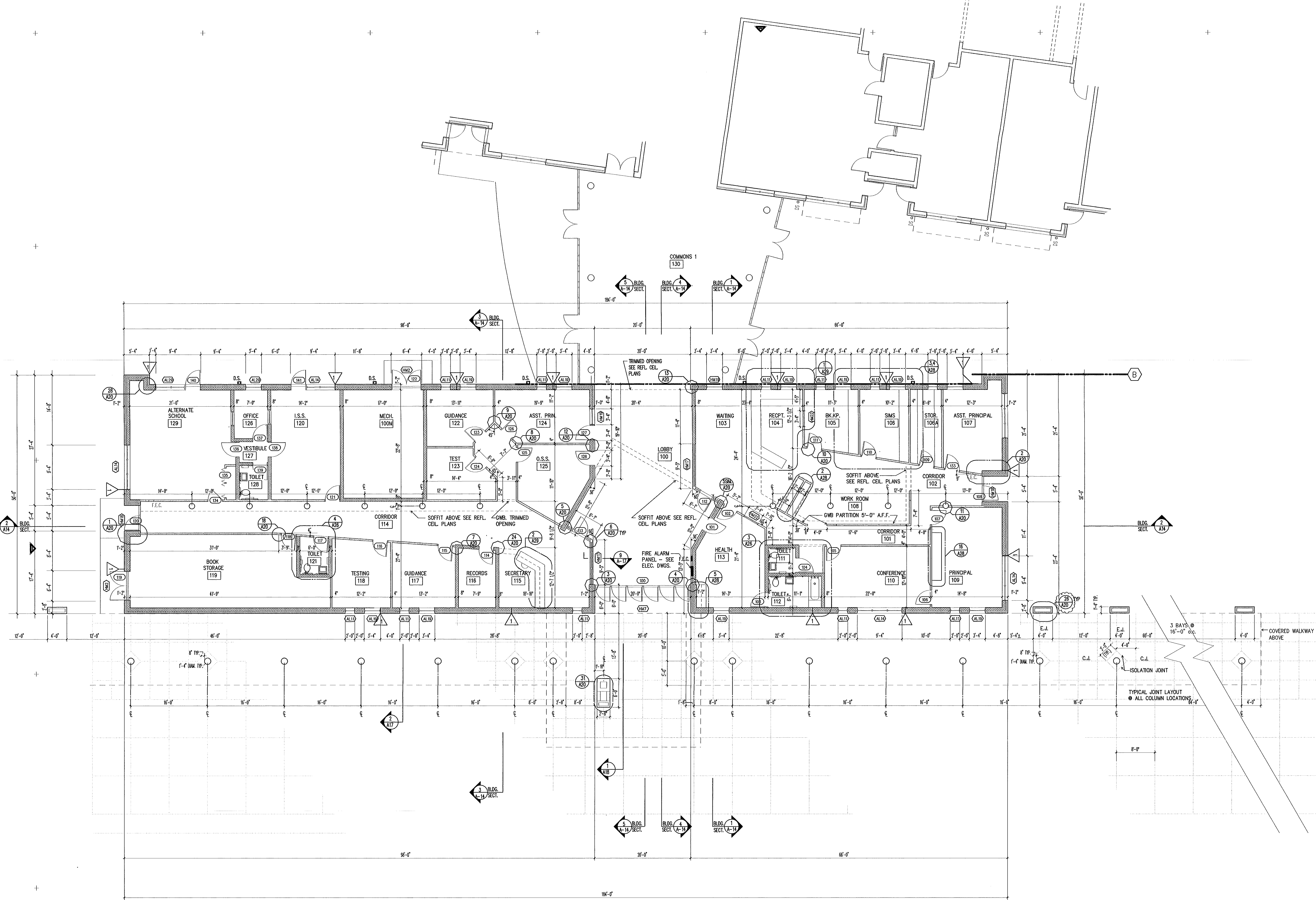
sheet title scale:

F9502.01
project no.
1/15/96
date
sheet no. 2 of 43
A-2

GENERAL NOTES:

- SEE COMPOSITE WALL KEY PLAN FOR WALL TYPES.
- FOR SITE PLAN, WALKWAY AND PLANTING INFORMATION SEE LANDSCAPE DRAWINGS.
- SEE ROOM FINISH AND MATERIAL SCHEDULE NOTES SHEET A-25.
- SEE SHEET A-30 FOR FLOOR PATTERNS AND ACCENT WALL LOCATIONS.

1 - SYMBOL DENOTES LOCATION OF CONTROL JOINT



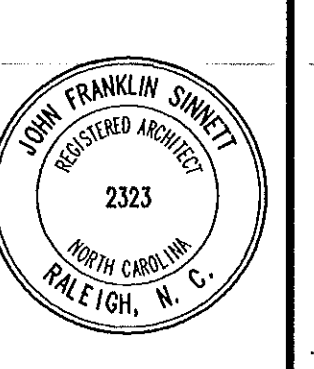
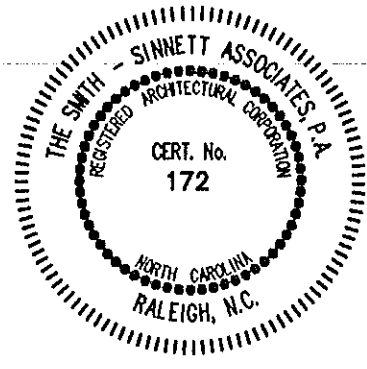
1 ADMINISTRATION WING 100 FLOOR PLAN
A-2 1/8" = 1'-0"

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919-781-8582



consultant

Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **LFC, DVC**
drawn by: **RA**
checked by:

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1 BASE BID CONDITION: 200,300,400 WINGS 6.3.96

no. description date

Revisions

New Havelock Middle School

Craven County
North Carolina

project title

**CLASSROOM 200, 300, 400
FLOOR PLAN
BID ALT G-1**

sheet title scale:

9502.01

project no.

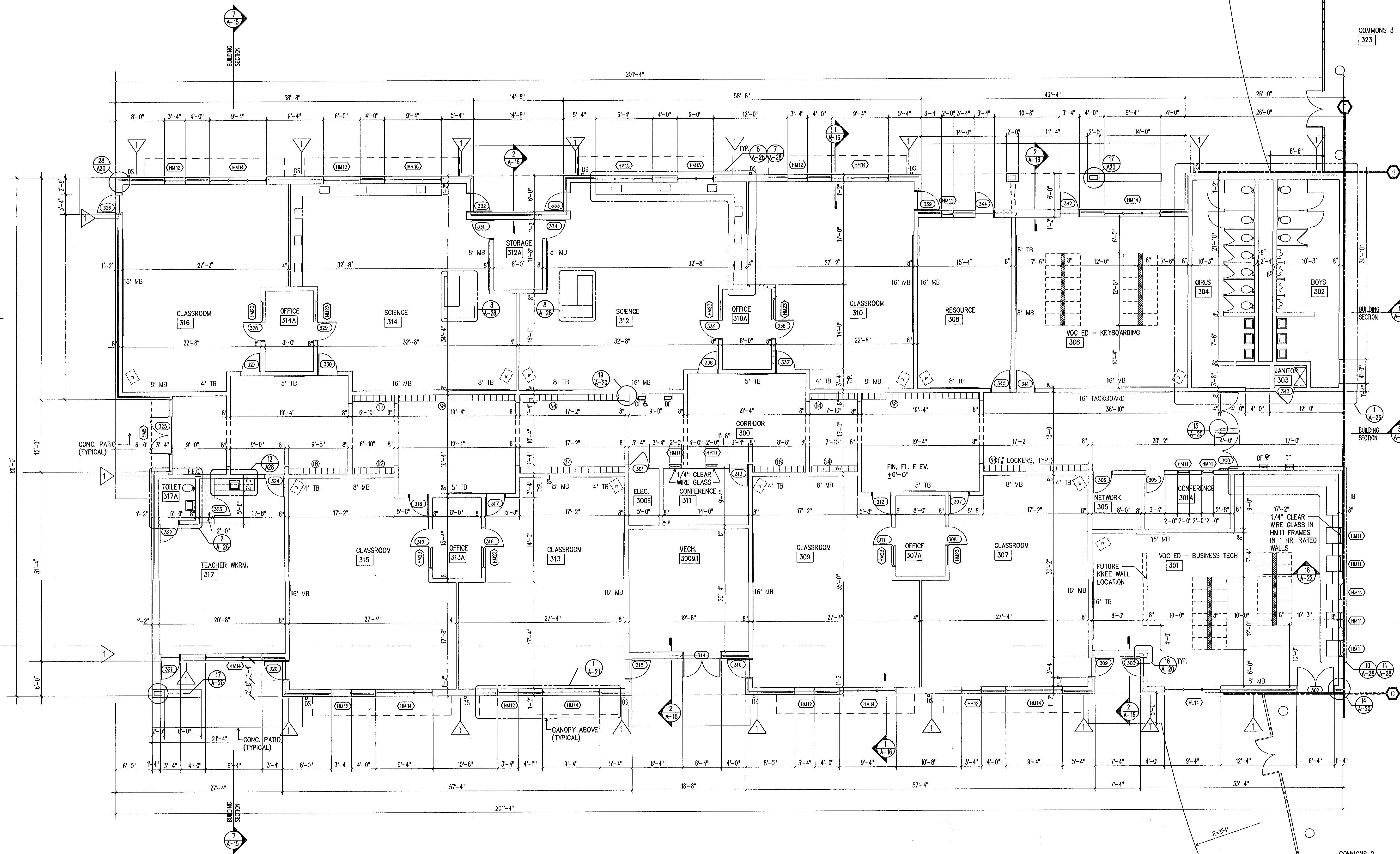
sheet no. 4 of 43

1.15.96

date

sheet no. A-3a,4a,5a

released for construction 1/15/95



FLOOR PLAN, 200, 300, 400 WINGS

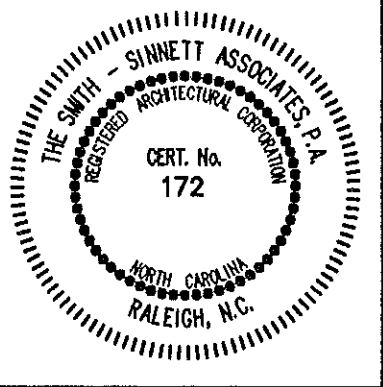
1/8" = 1'-0"

MASONRY CONTROL JOINT LOCATION

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consultant

Project Manager: John F. Sinnett, AIA

Project Architect: JFS

Project Engineer: LFC, DVC

drawn by: RA

checked by: RA

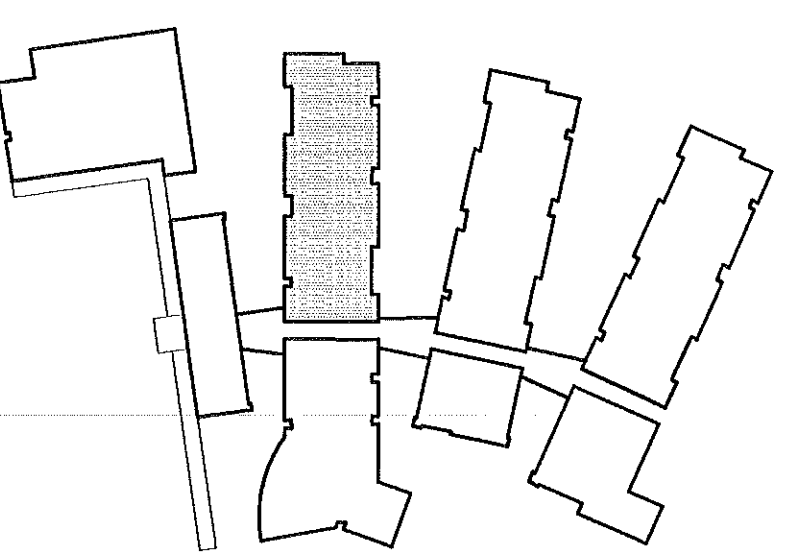
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RECORD
DRAWINGS

6-8-98

no. description date

Revisions



New Havelock
Middle School

Craven County
North Carolina

project title

CLASSROOM WING 200
FLOOR PLAN
BID ALT G-1

sheet title

scale:

F9502.01

project no.

sheet no. 3

of 43

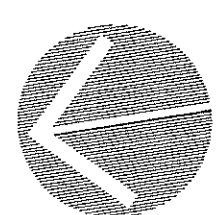
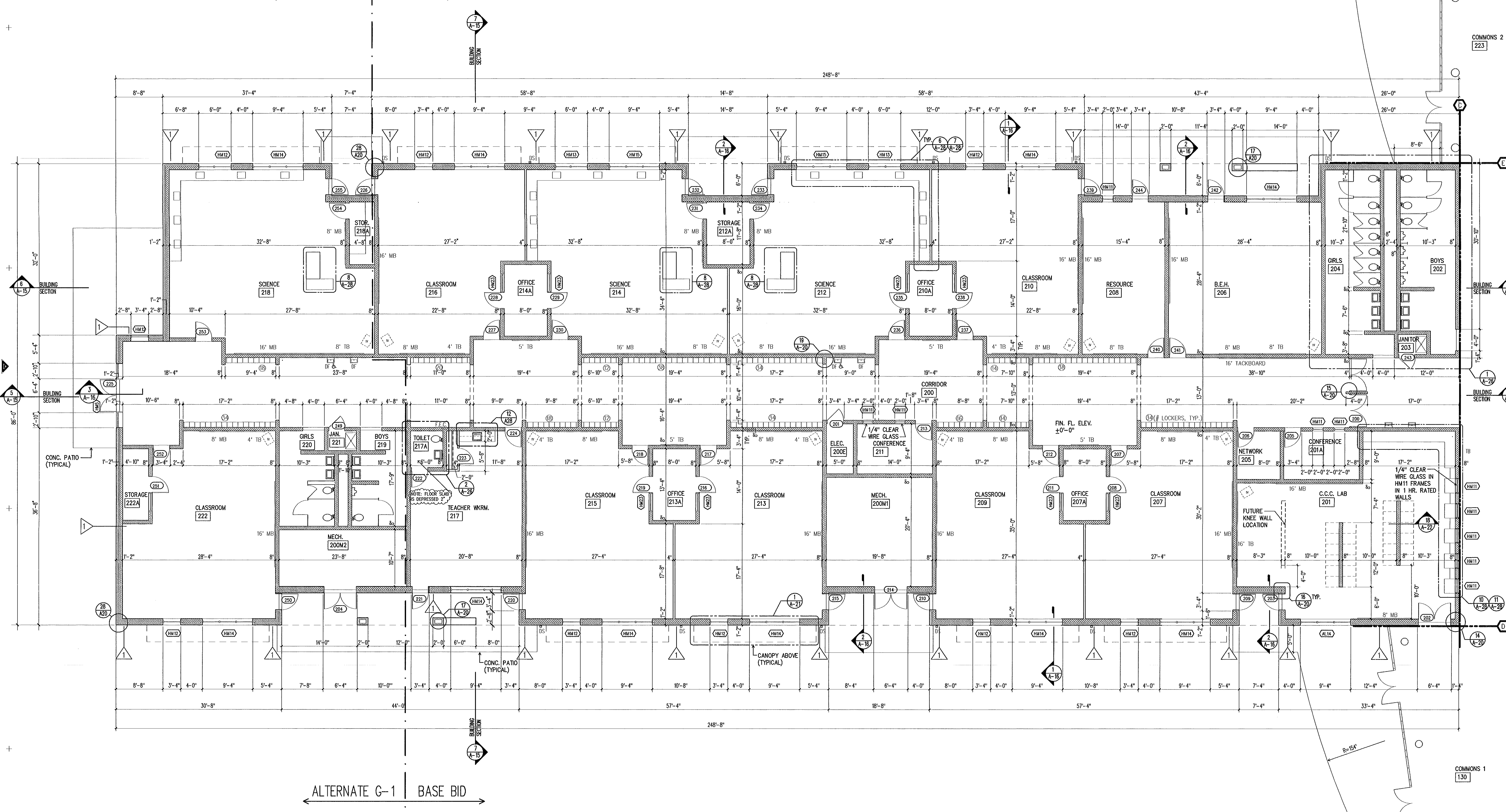
1/15/98

date

sheet no.

A-3

ALTERNATE G-1 BASE BID



1 FLOOR PLAN
A-3 1/8" = 1'-0"

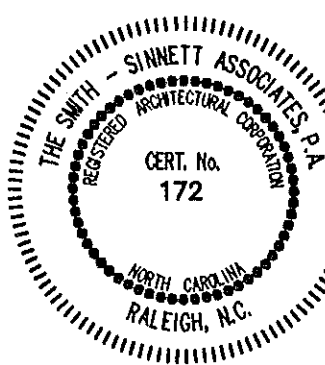
MASONRY CONTROL JOINT LOCATION

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consultant

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Project Architect: JFS

Project Engineer: LFC, DVC

drawn by: RA

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no. description date

Revisions

no. description date

Revisions

no. description date

Revisions

no. description date

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no. description date

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no. description date

Revisions

no. description date

Revisions

New Havelock
Middle School

Craven County
North Carolina

project title

CLASSROOM WING 300
FLOOR PLAN
BID ALT G-1

sheet title

scale:

F9502.01

project no.

sheet no. 4

of: 43

1/15/98

date

sheet no.

A-4

Released for construction 1/15/98

ALTERNATE G-1 BASE BID

ALTERNATE G-1 BASE BID

1 FLOOR PLAN

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

MASONRY CONTROL JOINT LOCATION

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CERT. NO. 172

RALEIGH, N.C.

consultant

Project Manager: John F. Sinnett, AIA

Project Architect: JFS

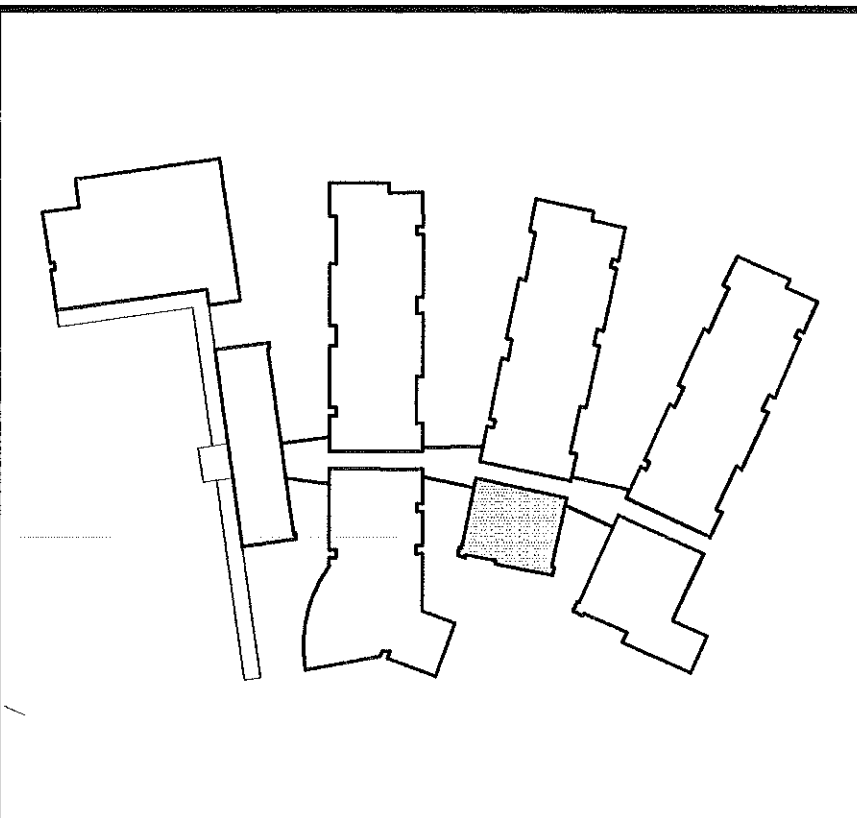
Project Engineer: LFC, DVC

drawn by: RA

checked by:

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RECORD DRAWINGS		
no. description		date
Revisions		



New Havelock Middle School

Craven County North Carolina

project title

MEDIA CENTER 600 PLAN

sheet title

scale:

1/8" = 1'-0"

F9502.01

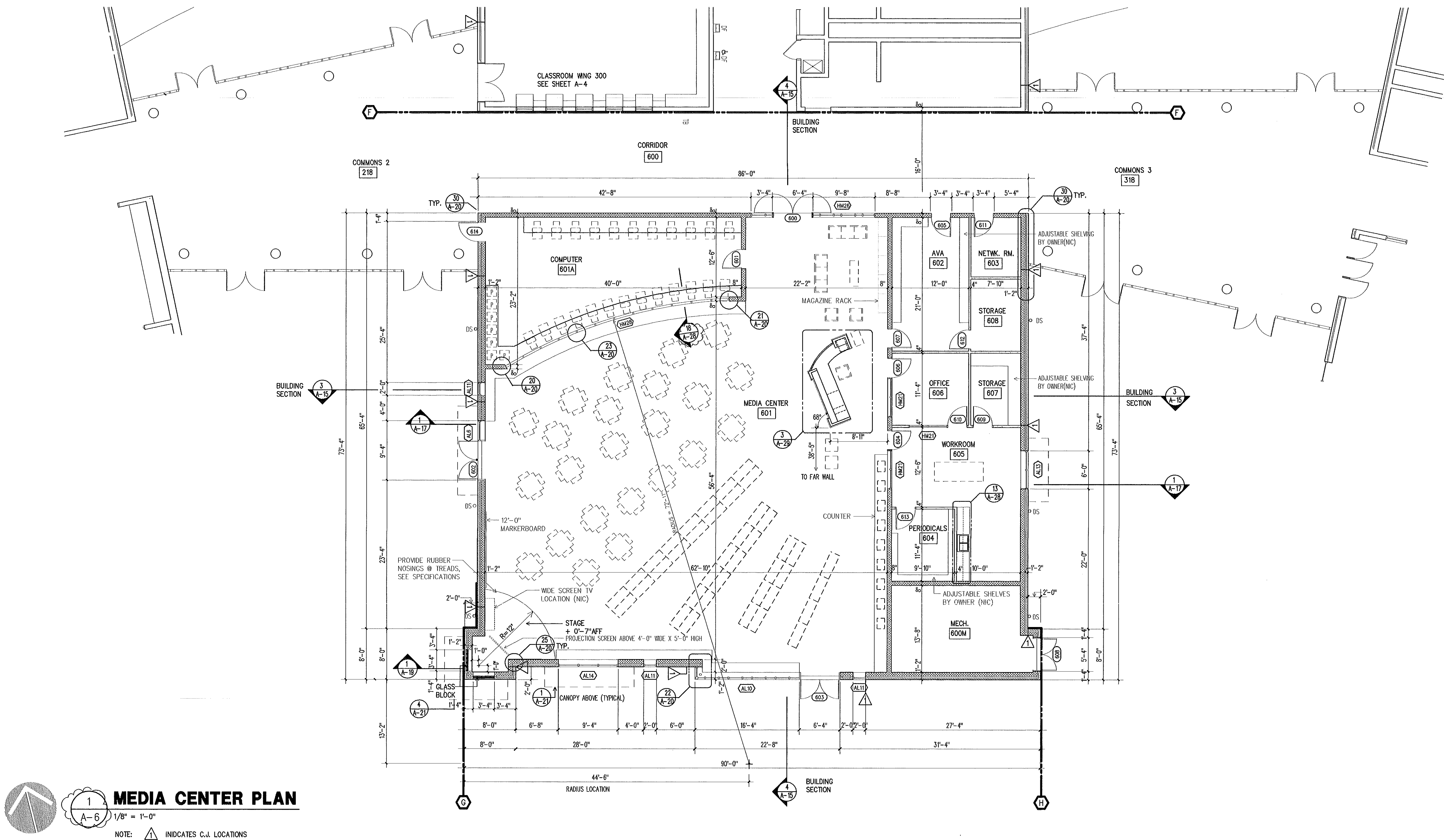
project no.

1/15/96

date

sheet no. 6 of 43

sheet no. A-6



1

A-6

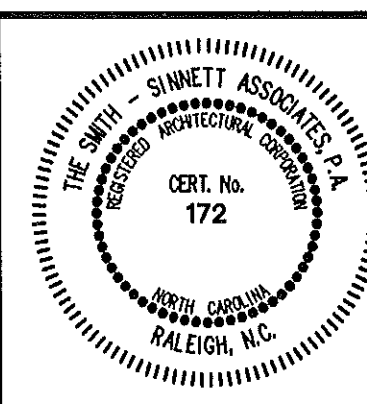
1/8" = 1'-0"

NOTE: INDICATES C.J. LOCATIONS

MEDIA CENTER PLAN

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consultant

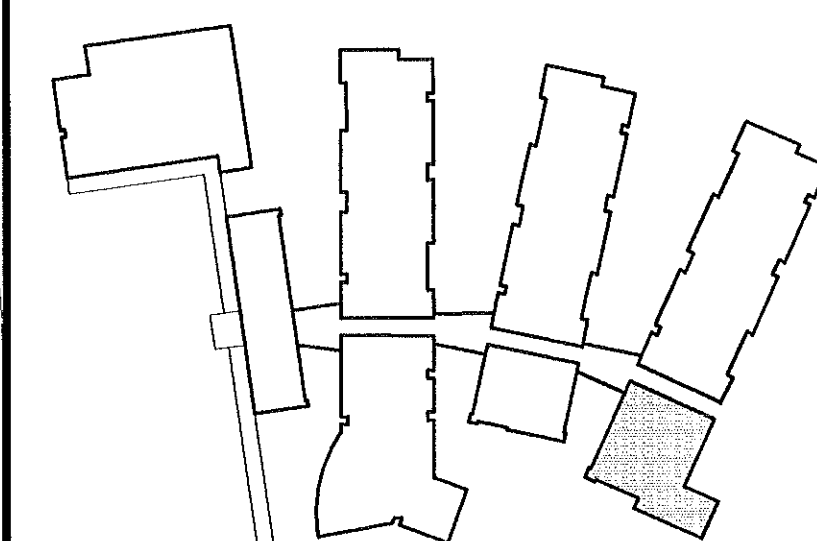
Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **LFC, ABD, DVC**
drawn by: **RA**
checked by:

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RECORD DRAWINGS

no.	description	date
6-8-98		

Revisions



New Havelock Middle School

Craven County
North Carolina

project title

CAFETERIA/WING 700 FLOOR PLAN

sheet title

scale:

F9502.01

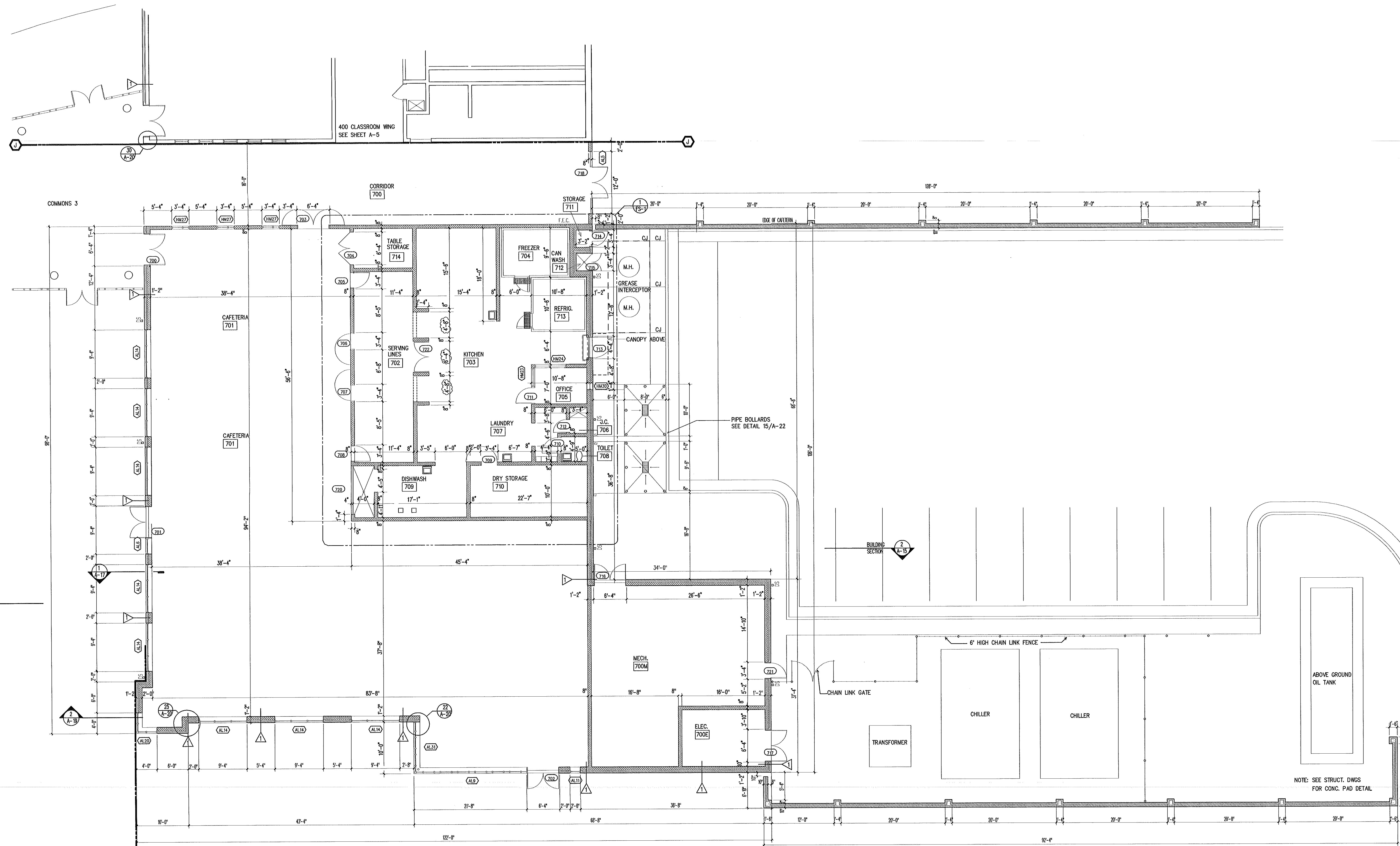
project no.

sheet no. 7 of 43

1/15/95

date

sheet no. **A-7**



CAFETERIA FLOOR PLAN

1/8" = 1'-0"

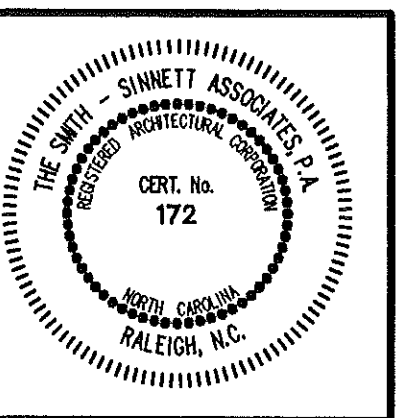
NOTE: INDICATES CONTROL JOINT LOCATIONS

MATCHLINE

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Project Architect: **JFS**
Project Engineer: **ACC**
drawn by: **RA**
checked by: **RA**

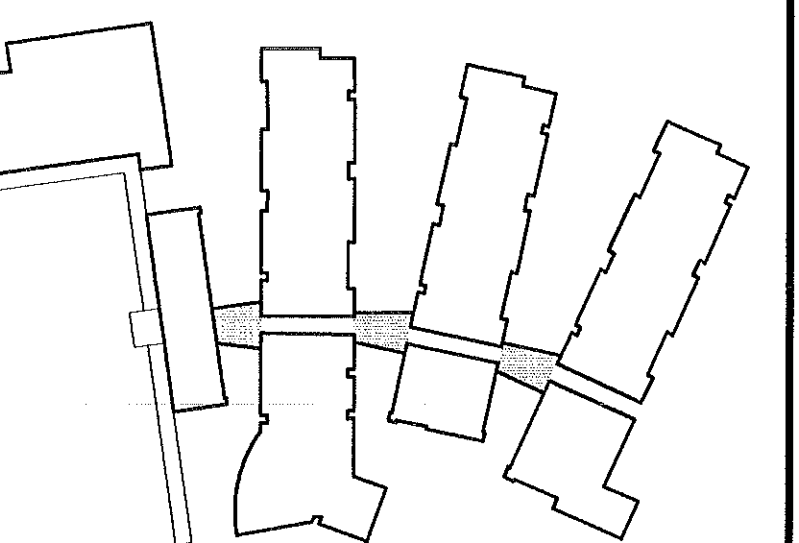
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RECORD
DRAWINGS

6-8-98

no. description date

Revisions



New Havelock
Middle School

Craven County
North Carolina

project title

COMMONS 1, 2, & 3 /
FLOOR PLANS
ELEVATIONS

sheet title

scale:

F9502.01

project no.

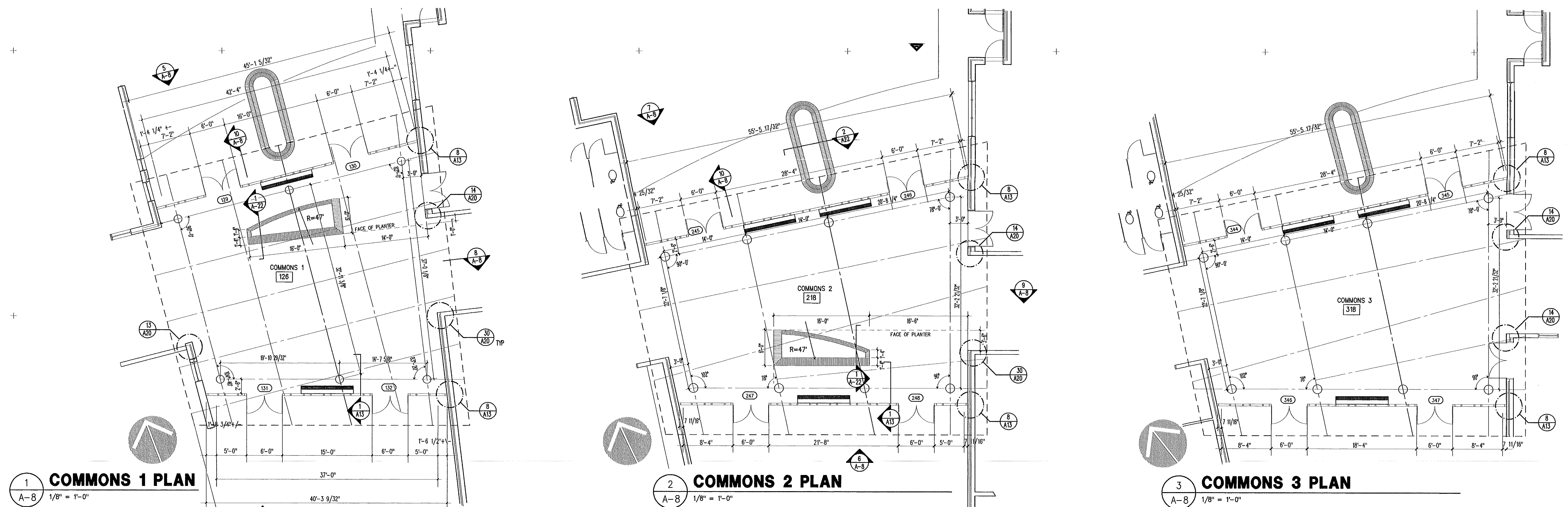
sheet no. 8 of 43

01/15/96

date

sheet no. **A-8**

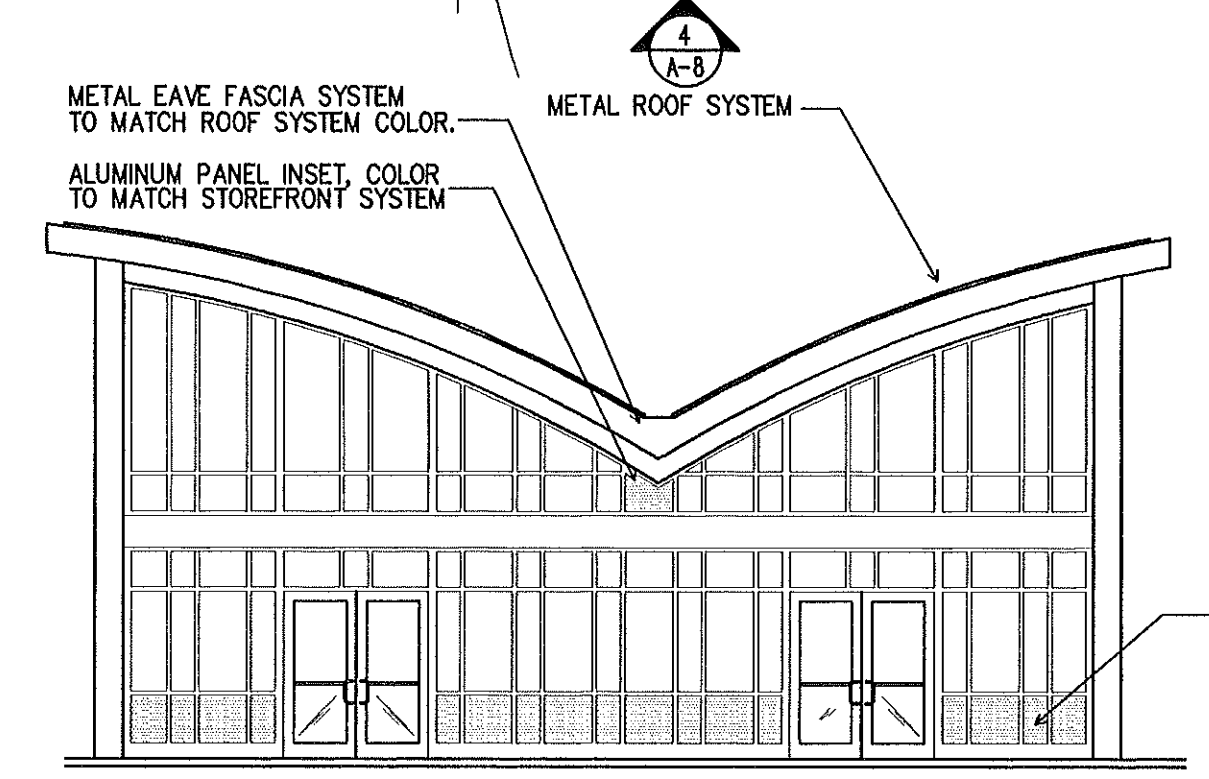
released for construction 1/15/96



1 COMMONS 1 PLAN
A-8 1/8" = 1'-0"

2 COMMONS 2 PLAN
A-8 1/8" = 1'-0"

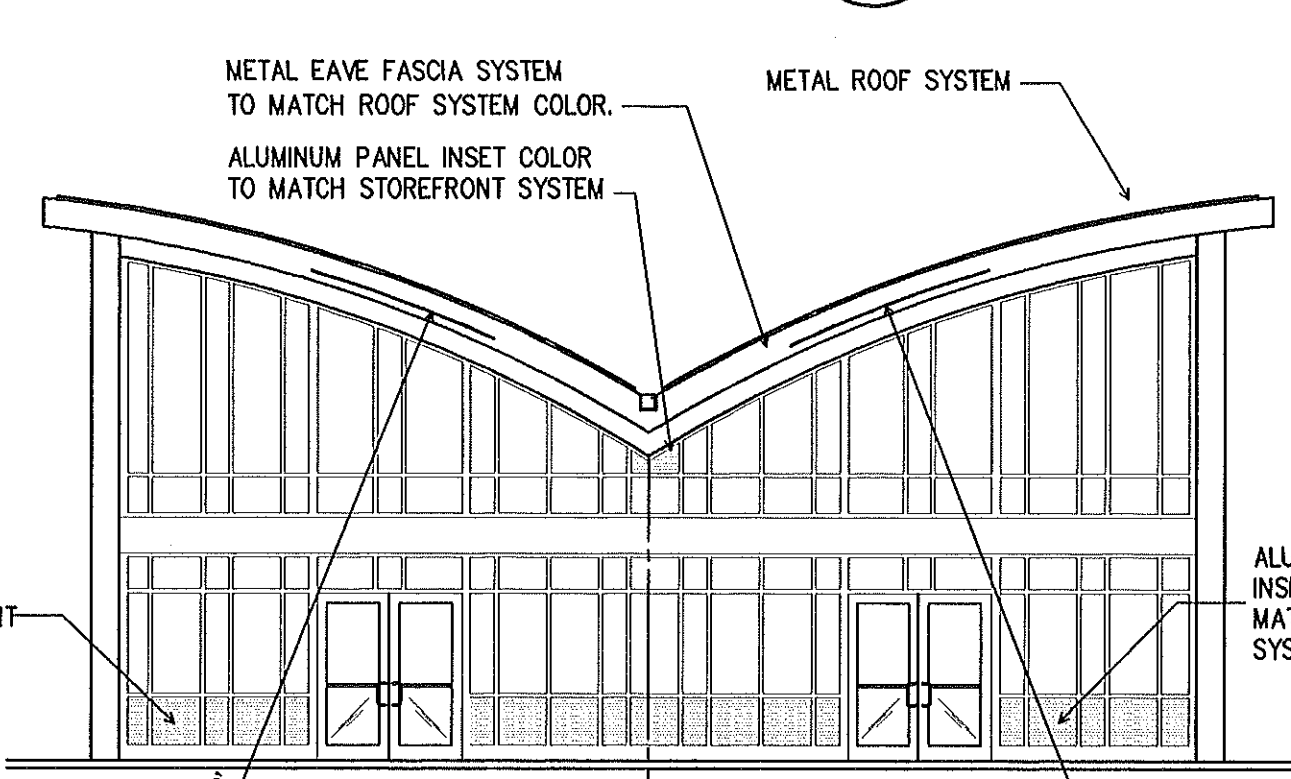
3 COMMONS 3 PLAN
A-8 1/8" = 1'-0"



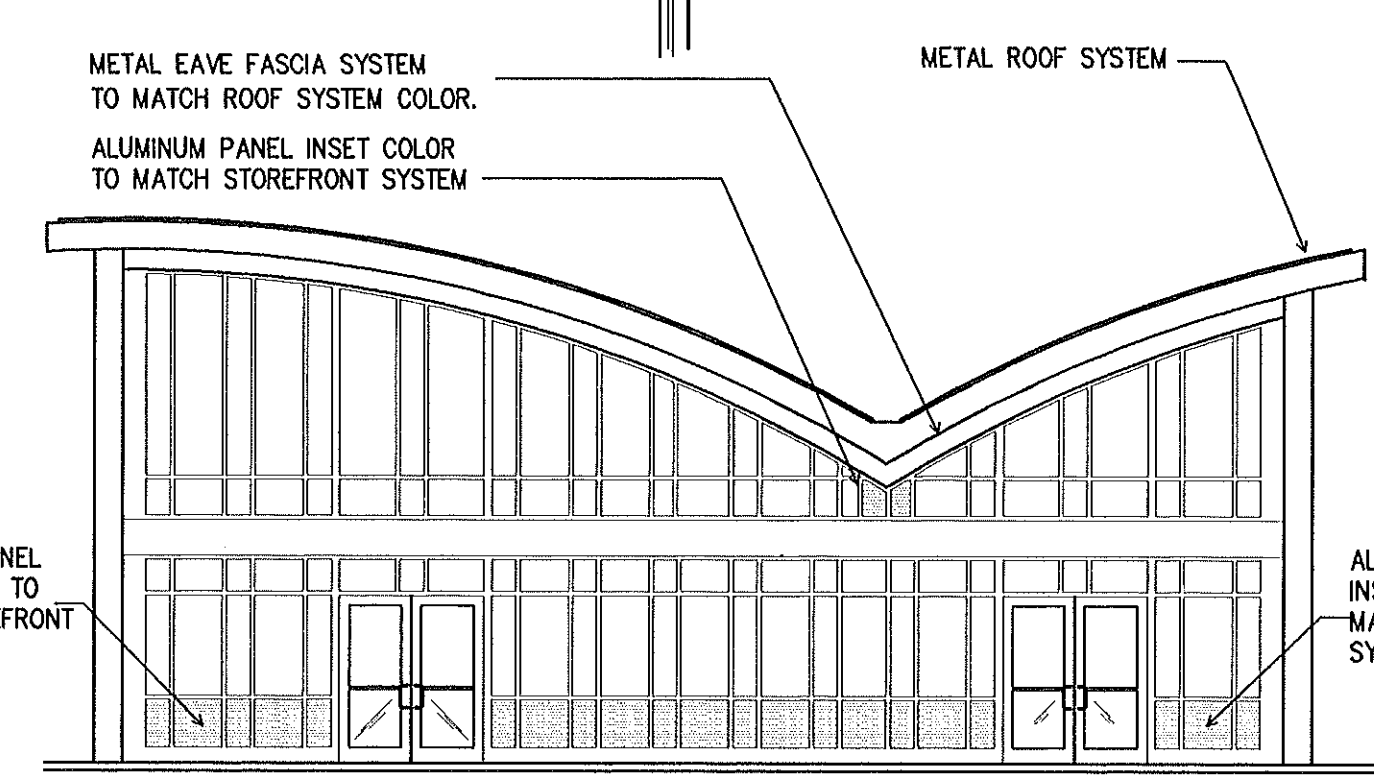
STRUCTURAL ALUMINUM STOREFRONT SYSTEM WITH THERMAL BREAK DESIGN. ALUMINUM STOREFRONT SYSTEM SHALL BE ENGINEERED BY MANUFACTURER TO WITHSTAND ALL WIND LOADING IN ACCORDANCE WITH THE N.C. STATE BUILDING CODE.

METAL FASCIA BY ALUMINUM STOREFRONT MANUFACTURER COLOR TO MATCH ALUMINUM STOREFRONT SYSTEM WITH INSULATED LOW E GLASS

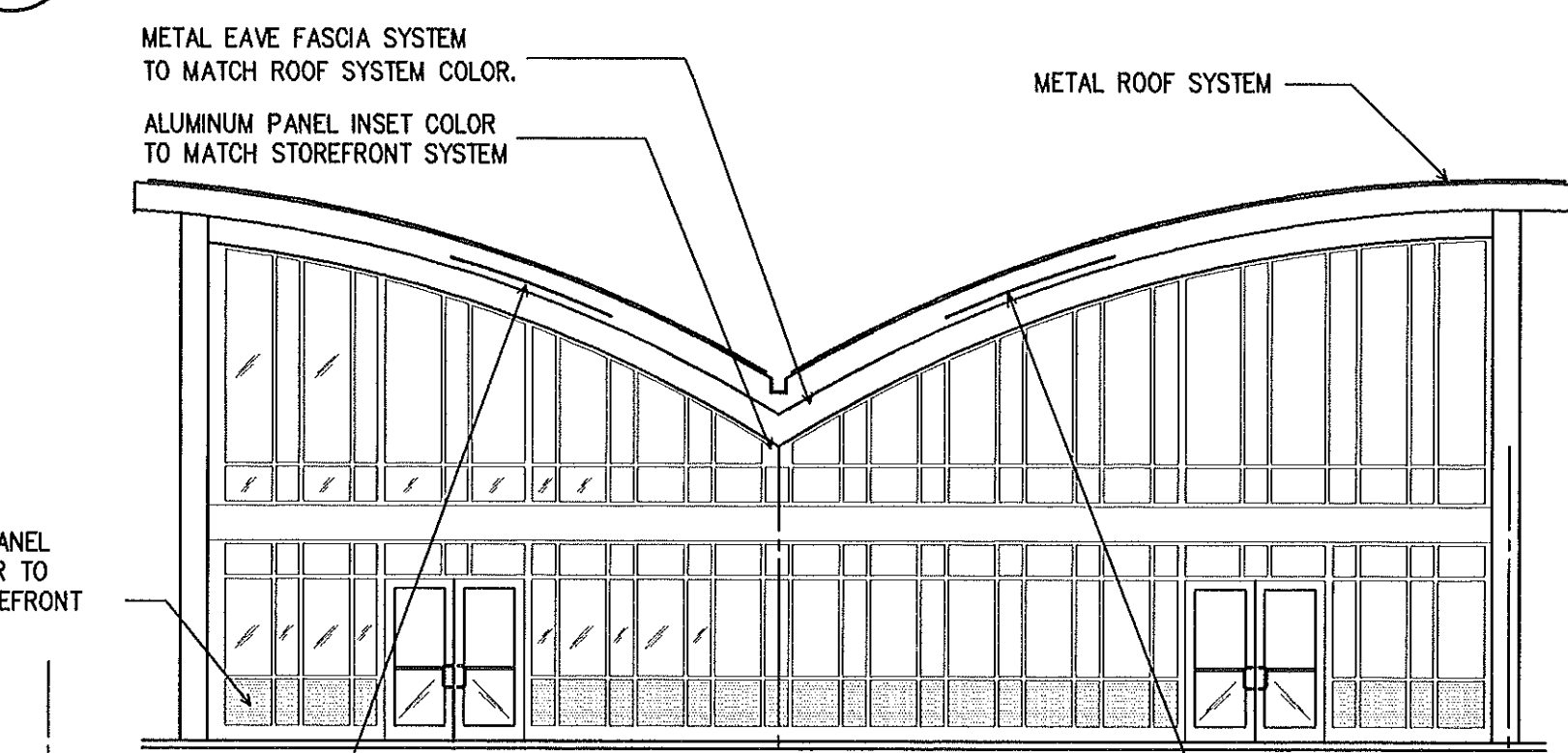
4 COMMONS 1 ELEVATION FRONT
A-8 1/8" = 1'-0"



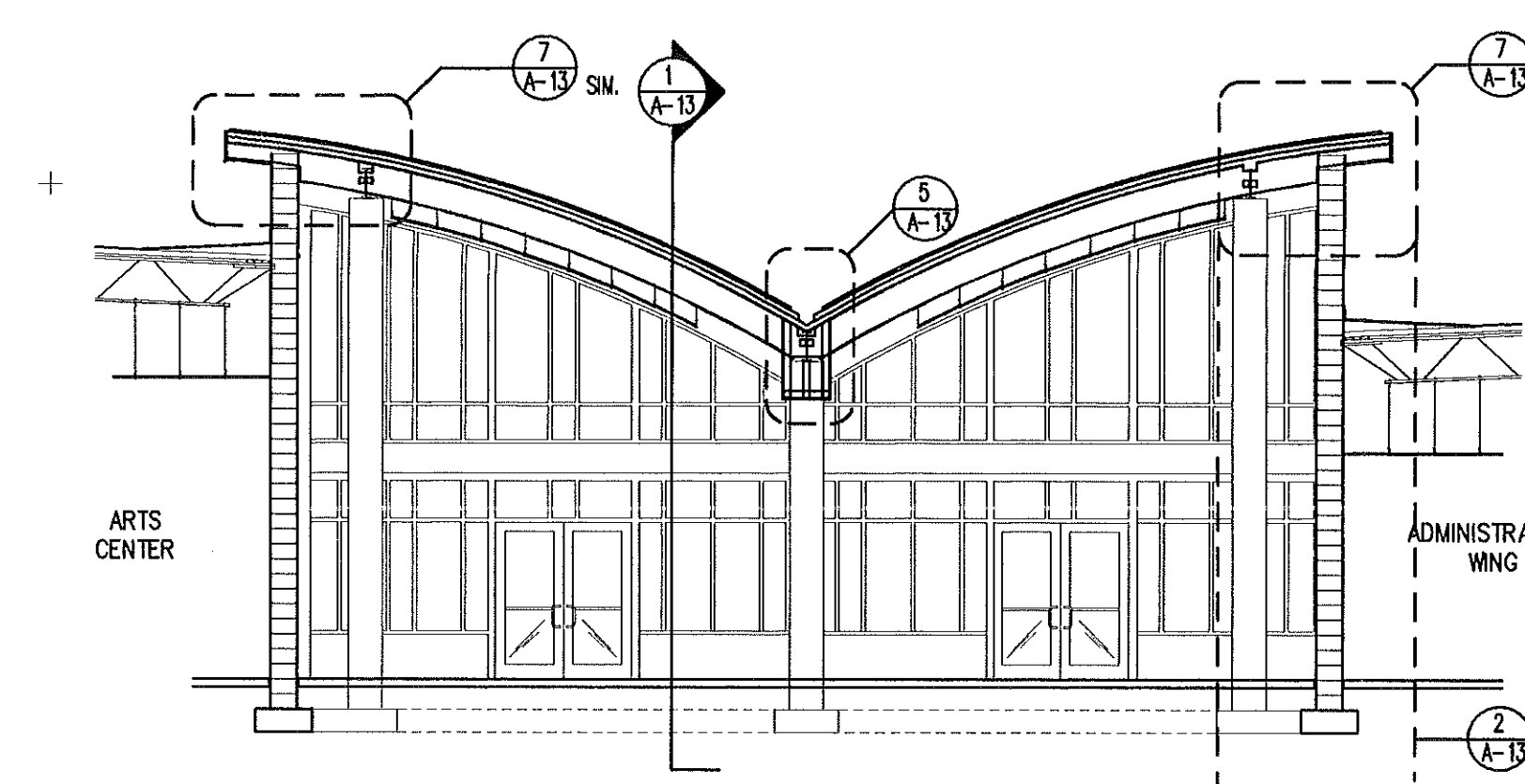
5 COMMONS 1 ELEVATION BACK
A-8 1/8" = 1'-0"



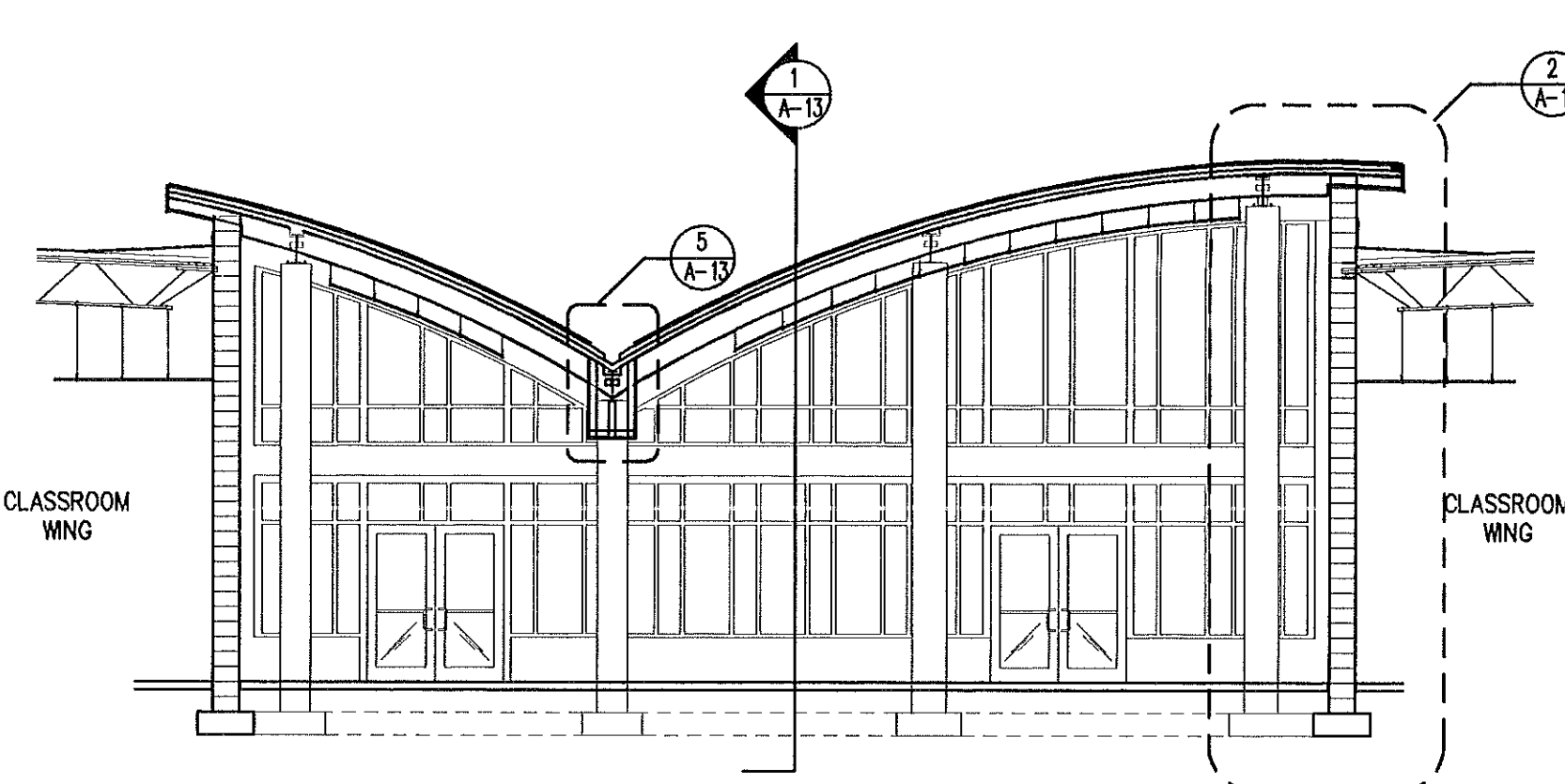
6 COMMONS 2 ELEVATION FRONT
A-8 1/8" = 1'-0"



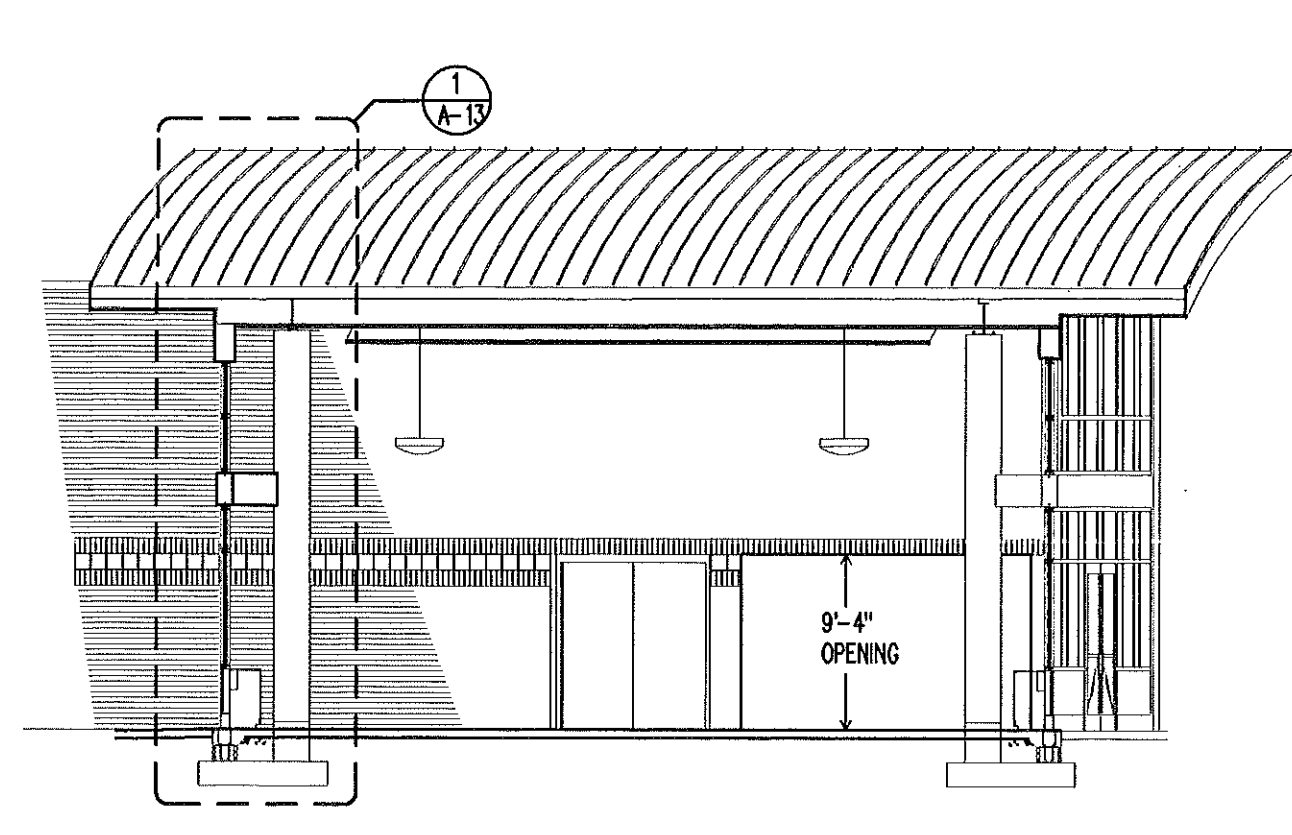
7 COMMONS 2 ELEVATION BACK
A-8 1/8" = 1'-0"



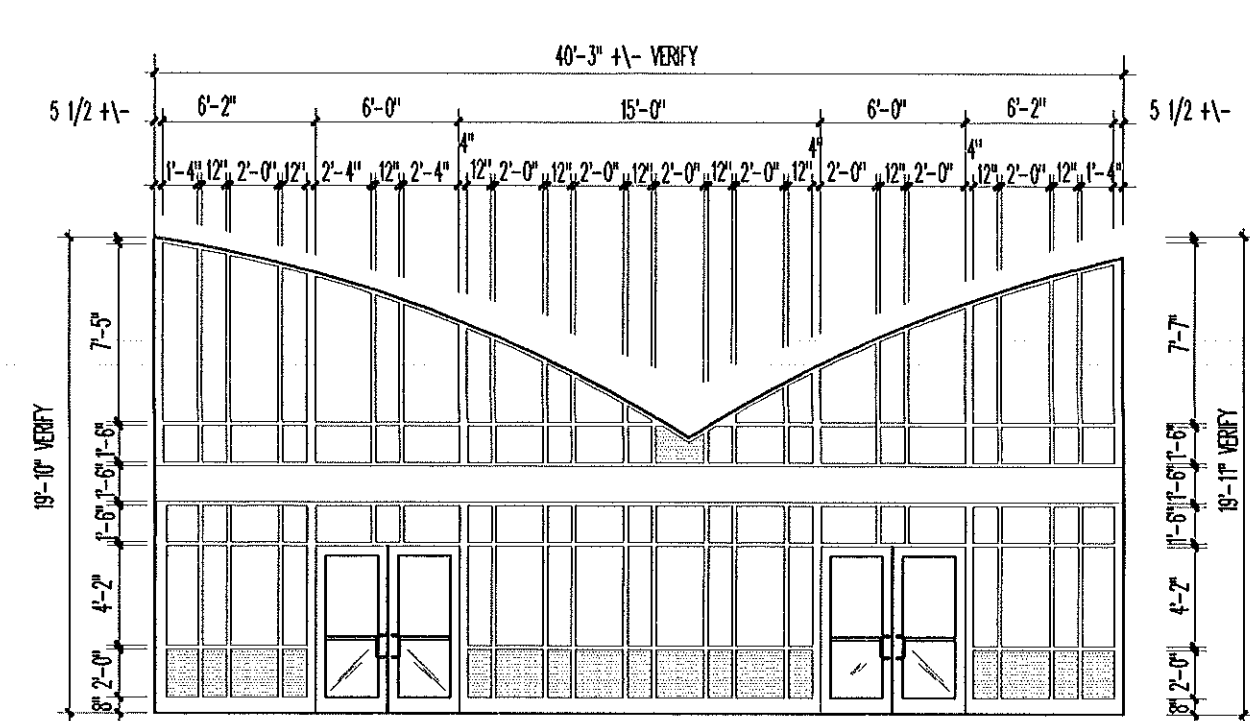
8 COMMONS BUILDING SECTION
A-8 1/8" = 1'-0"



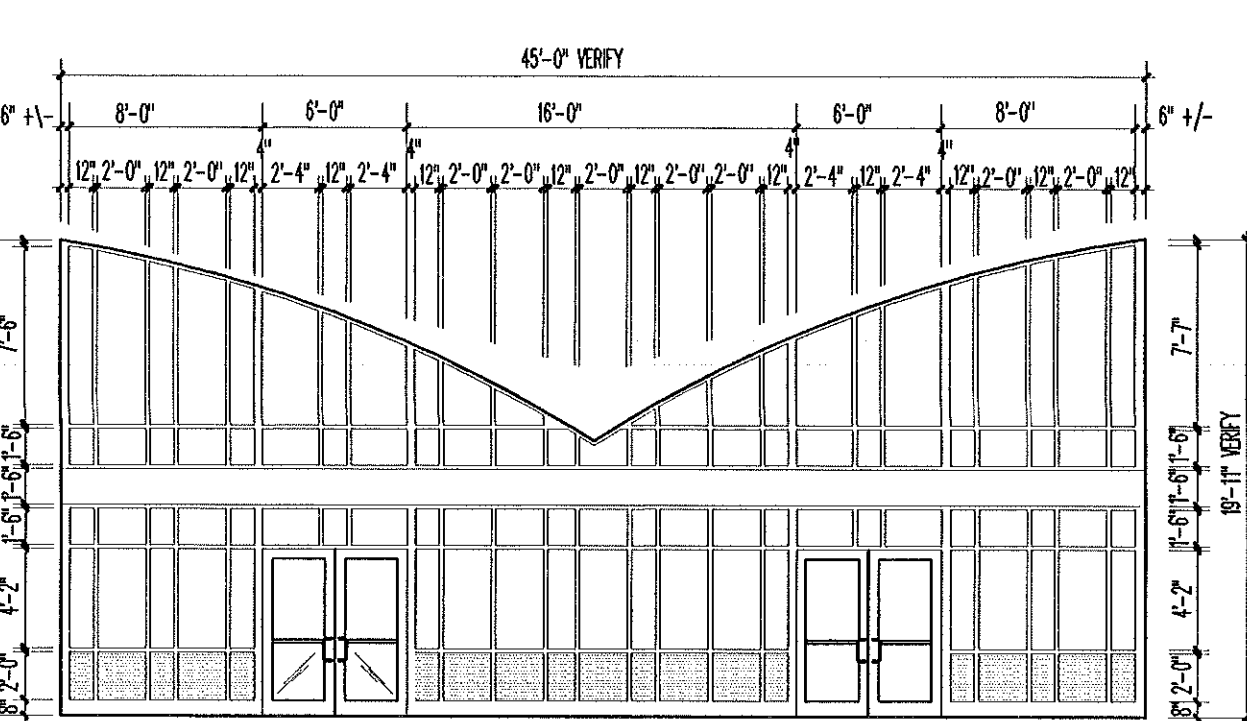
9 COMMONS BUILDING SECTION
A-8 1/8" = 1'-0"



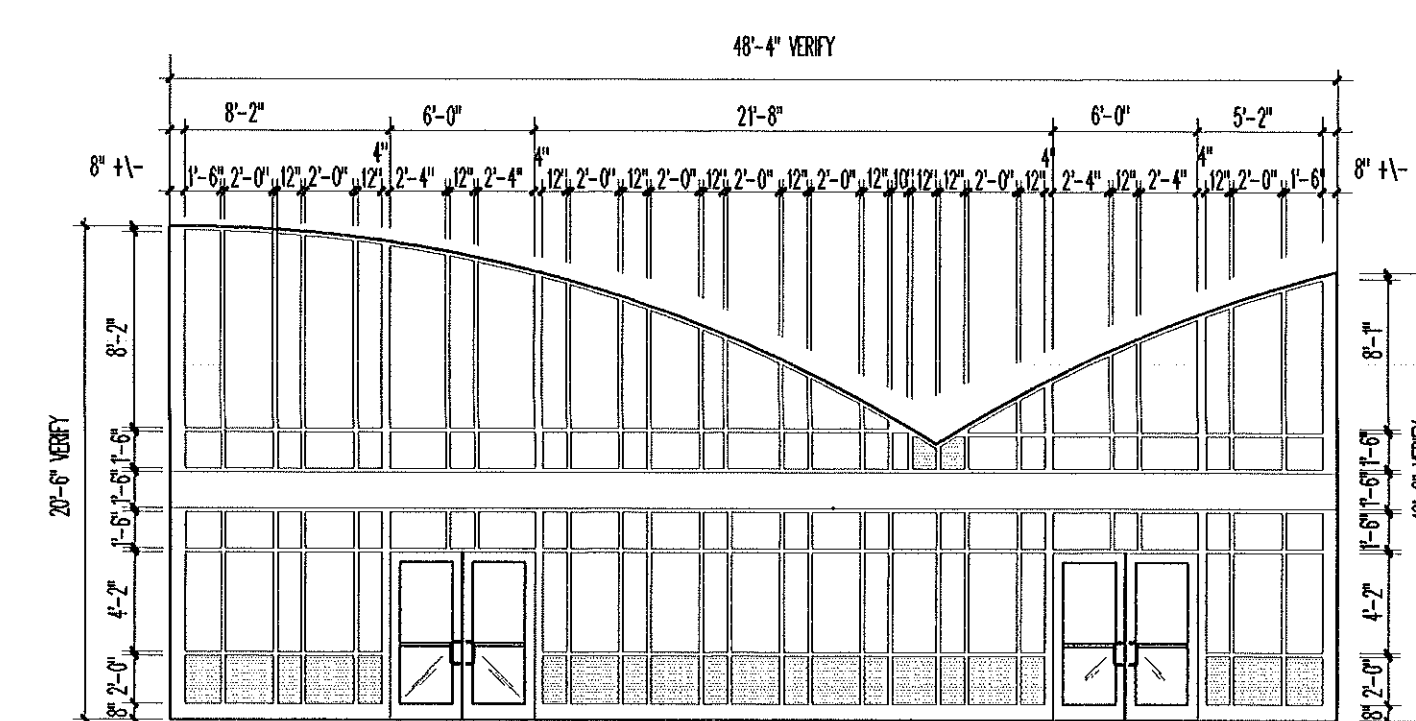
10 COMMONS BUILDING SECTION
A-8 1/8" = 1'-0"



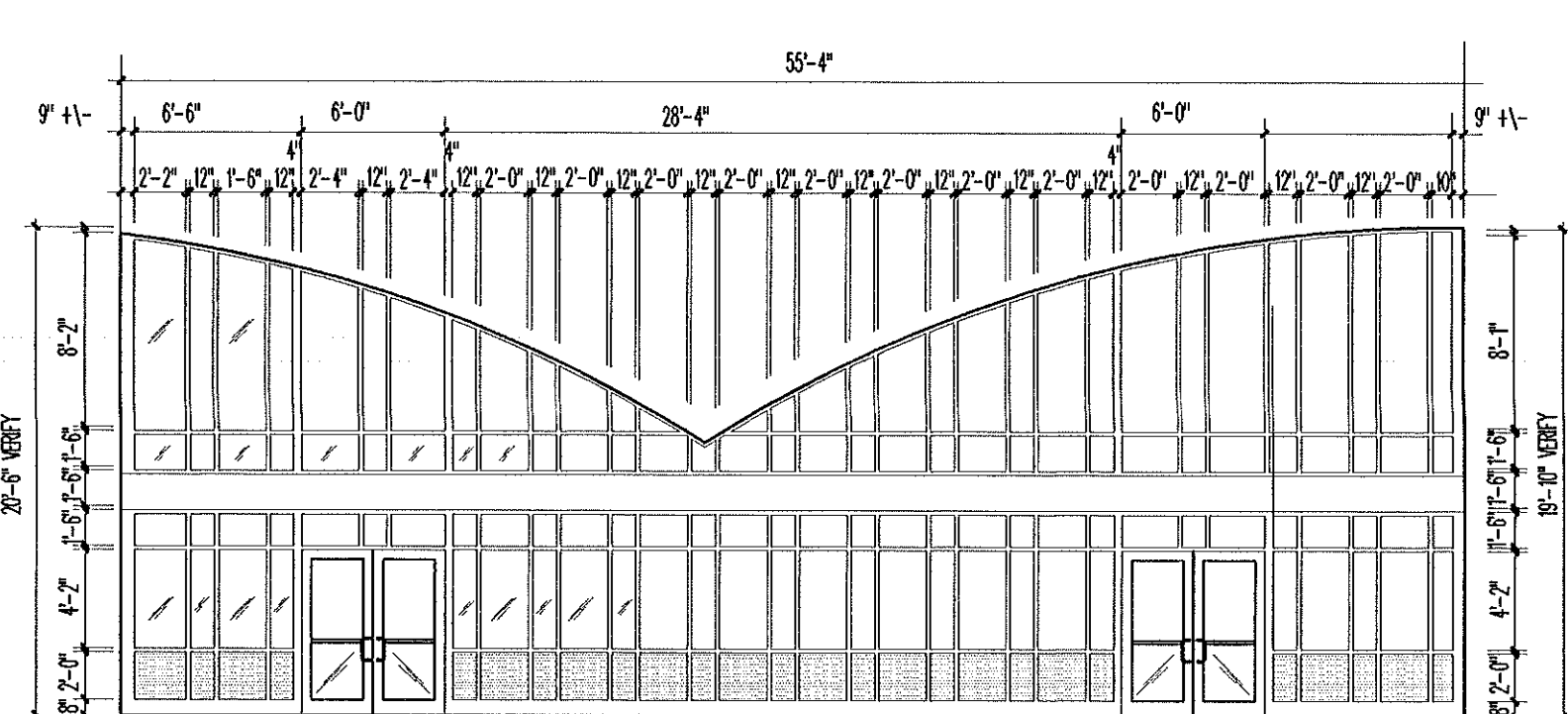
11 COMMONS 1 FRONT FRAME ELEVATIONS
A-8 1/8" = 1'-0"



12 COMMONS 1 REAR FRAME ELEVATIONS
A-8 1/8" = 1'-0"



13 COMMONS 2 FRONT FRAME ELEVATIONS
A-8 1/8" = 1'-0"

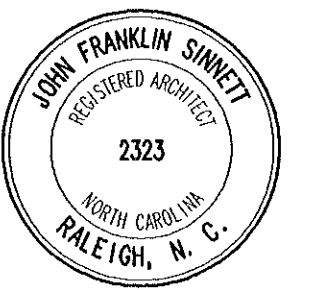
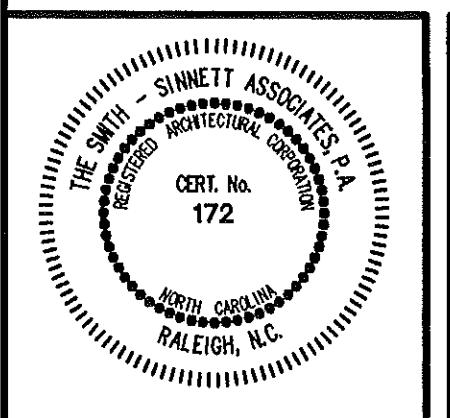


14 COMMONS 2 REAR FRAME ELEVATIONS
A-8 1/8" = 1'-0"

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consultant

Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer:
drawn by: **LFC,ADP,ABD**
checked by: **JFS**

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RECORD
DRAWING

6-8-98

no.	description	date
Revisions		

New Havelock
Middle School

Craven County
North Carolina

project title

ADMINISTRATION ELEVATIONS

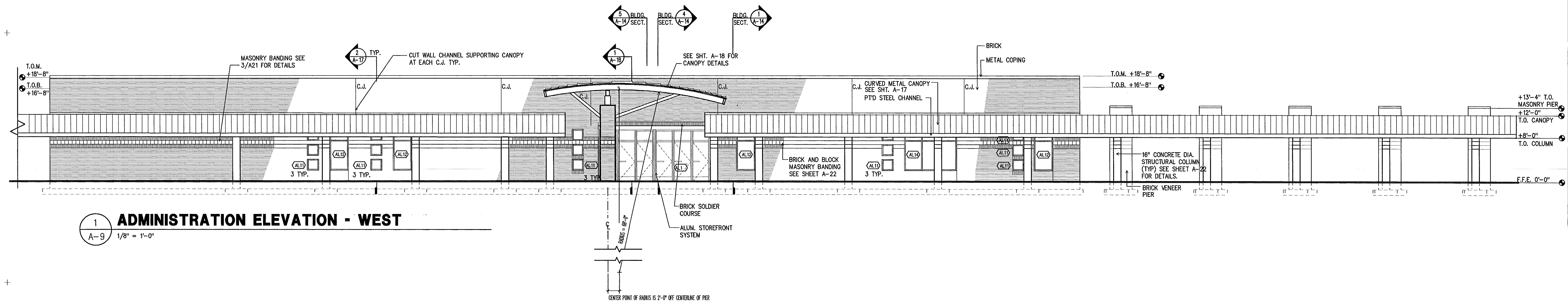
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F9502.01
project no.

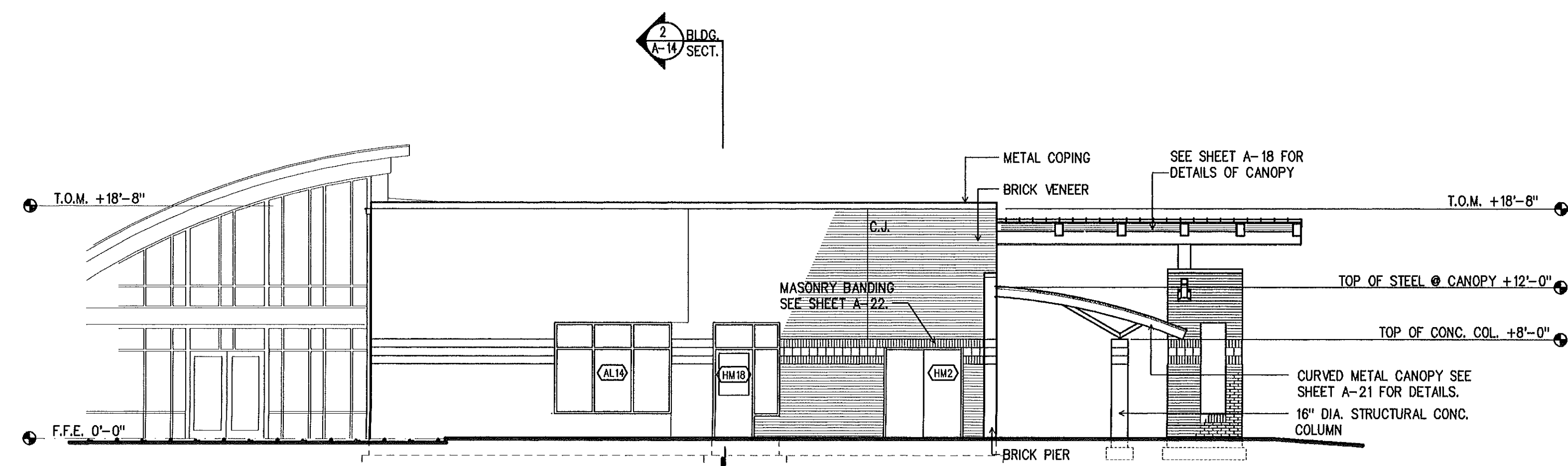
01/16/96
date

sheet no. 9 of 43

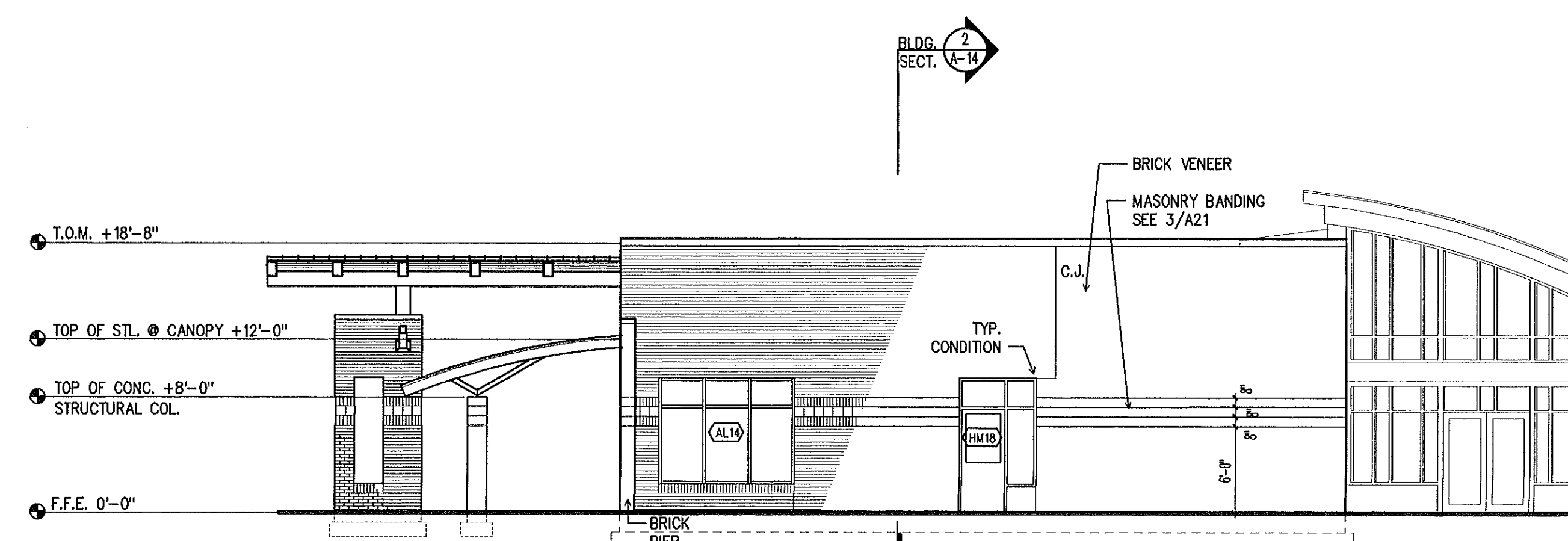
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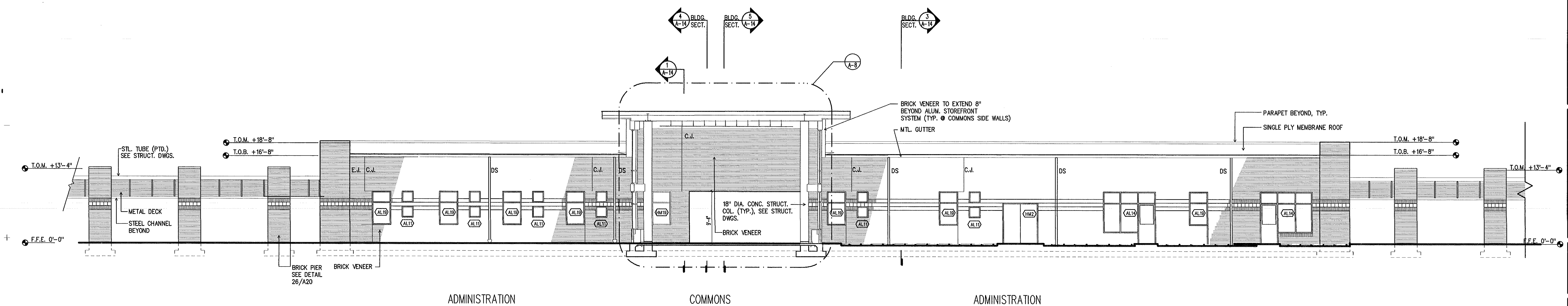
1
A-9
ADMINISTRATION ELEVATION - WEST
1/8" = 1'-0"



2
A-9
ADMINISTRATION ELEVATION - NORTH
1/8" = 1'-0"



3
A-9
ADMINISTRATION ELEVATION - SOUTH
1/8" = 1'-0"

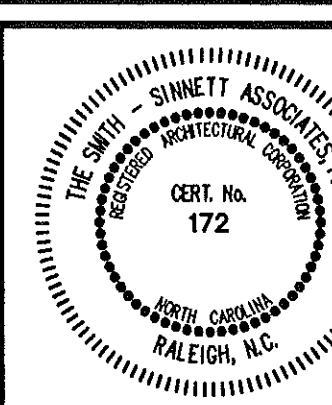


4
A-9
ADMINISTRATION ELEVATION - EAST
1/8" = 1'-0"

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Project Architect: **JFS**
Project Engineer: **ABD, RA**
checked by: **RA**

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RECORD DRAWINGS

6-8-98

no.	description	date

Revisions

New Havelock Middle School

Craven County
North Carolina

project title

ART CENTER /
200 WING
ELEVATIONS

sheet title

scale:

F9502.01

project no.

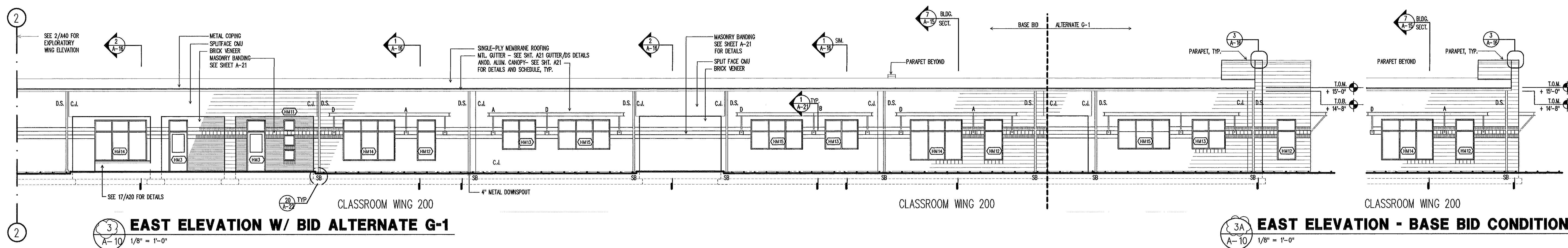
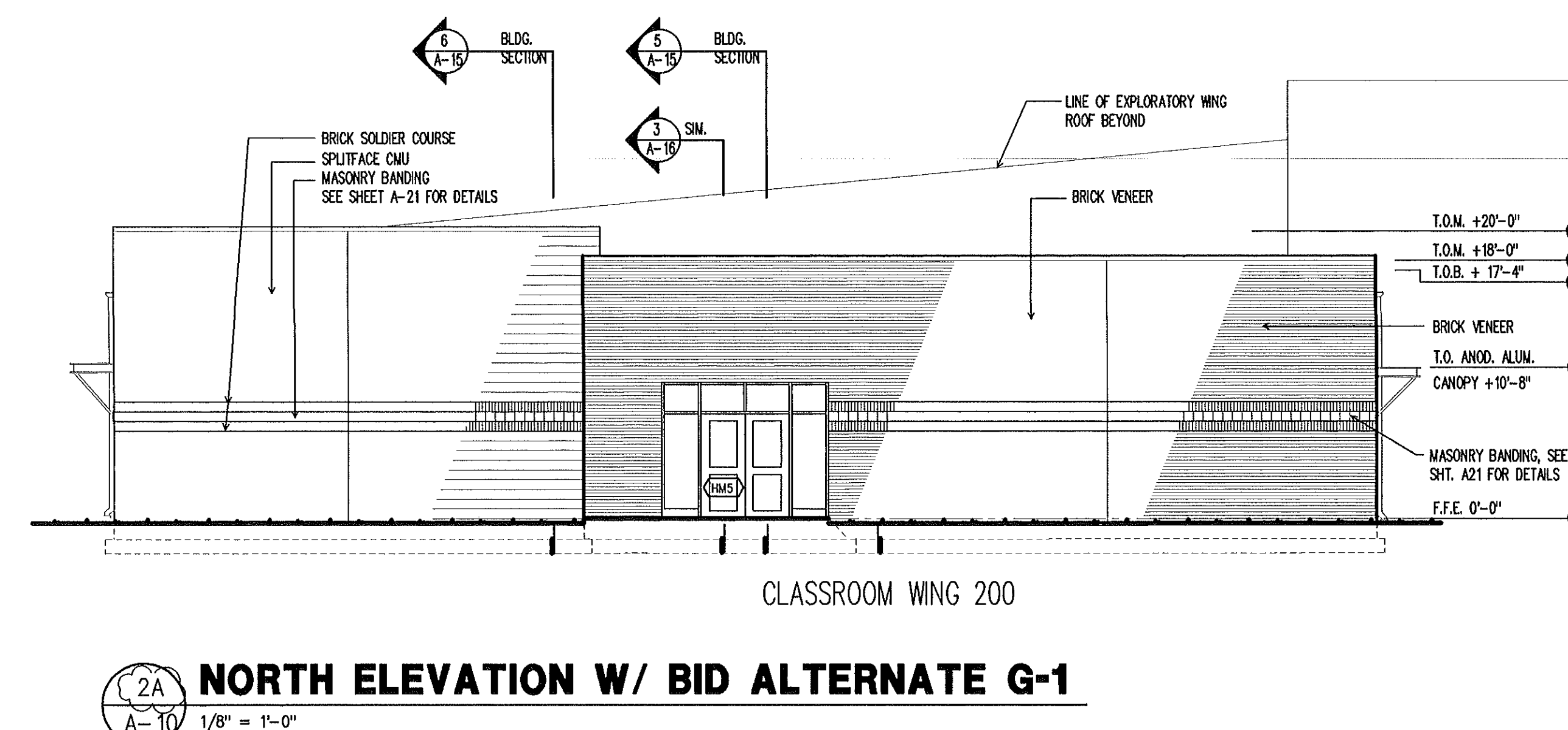
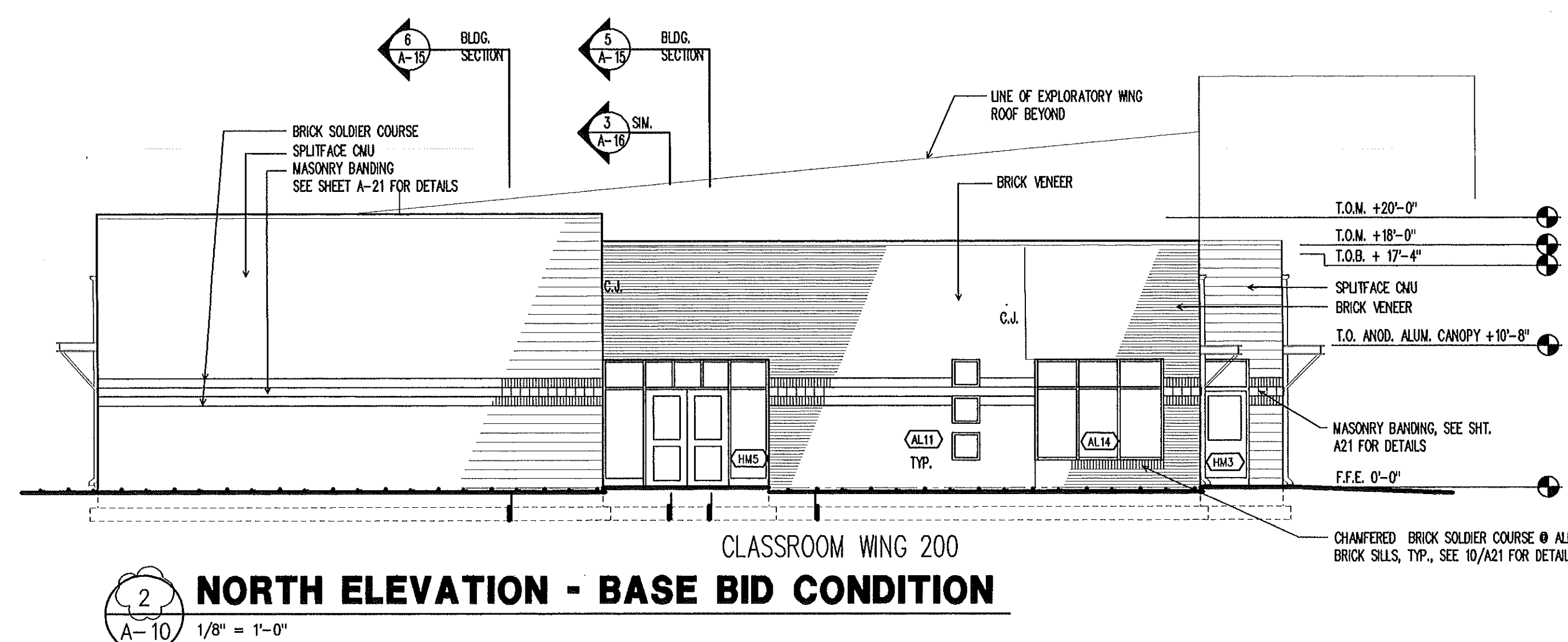
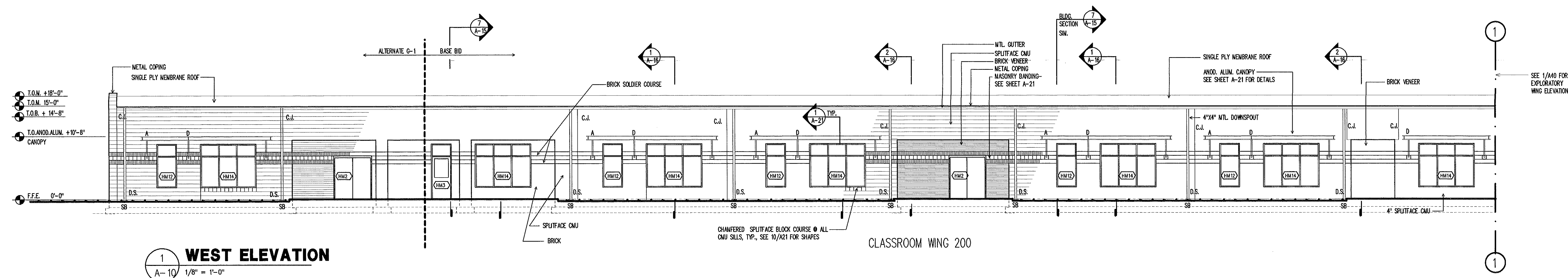
sheet no. 10 of 43

1/15/96

date

sheet no. **A-10**

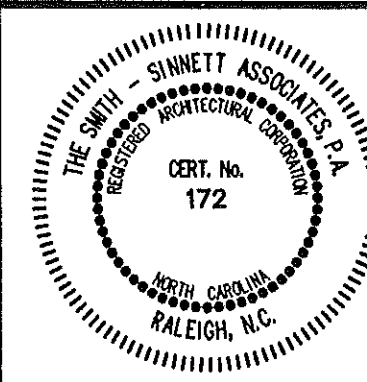
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consultant

Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **RA,ABD,DVC**
drawn by: **RA**
checked by: **RA**

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RECORD DRAWINGS

6-8-98

no.	description	date
1	Revisions	

New Havelock Middle School

Craven County
North Carolina

project title

MEDIA WING 300 ELEVATIONS

sheet title

scale:

F9502.01

project no.

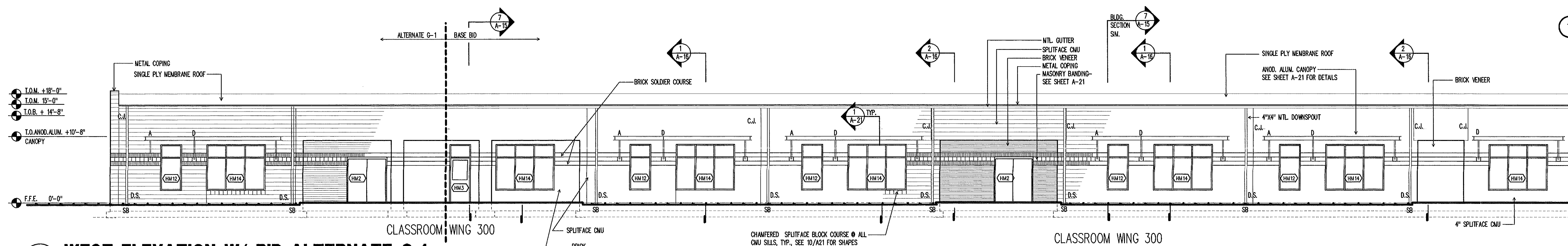
sheet no. **11** of **43**

1/15/96

date

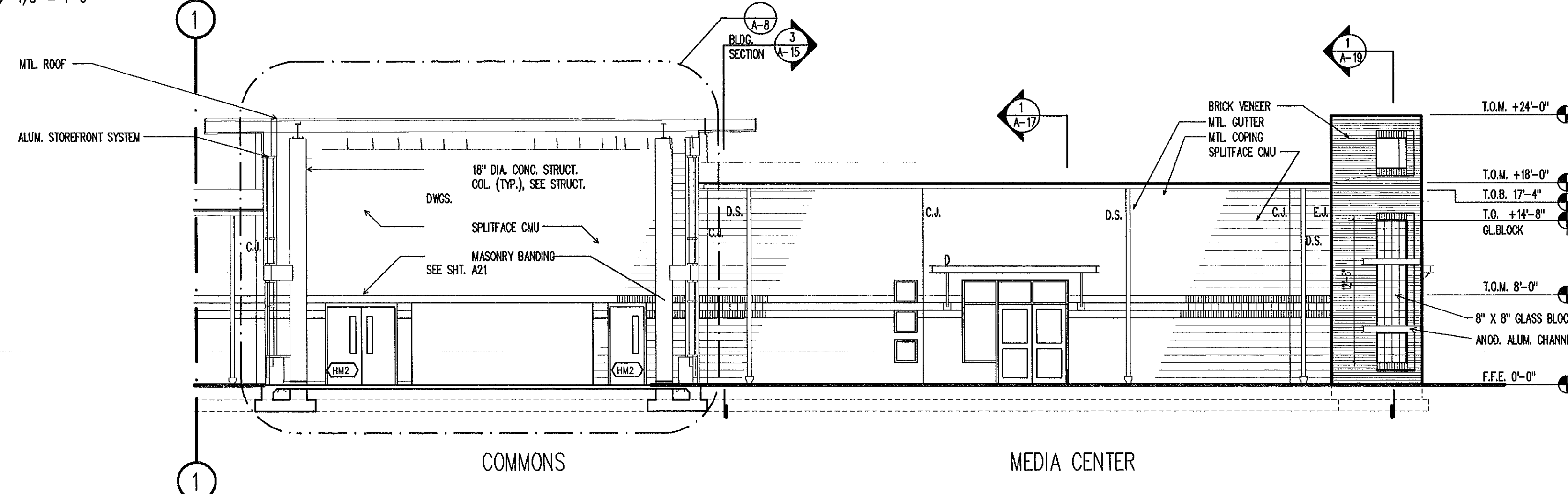
sheet no. **A-11**

released for construction 1/15/96



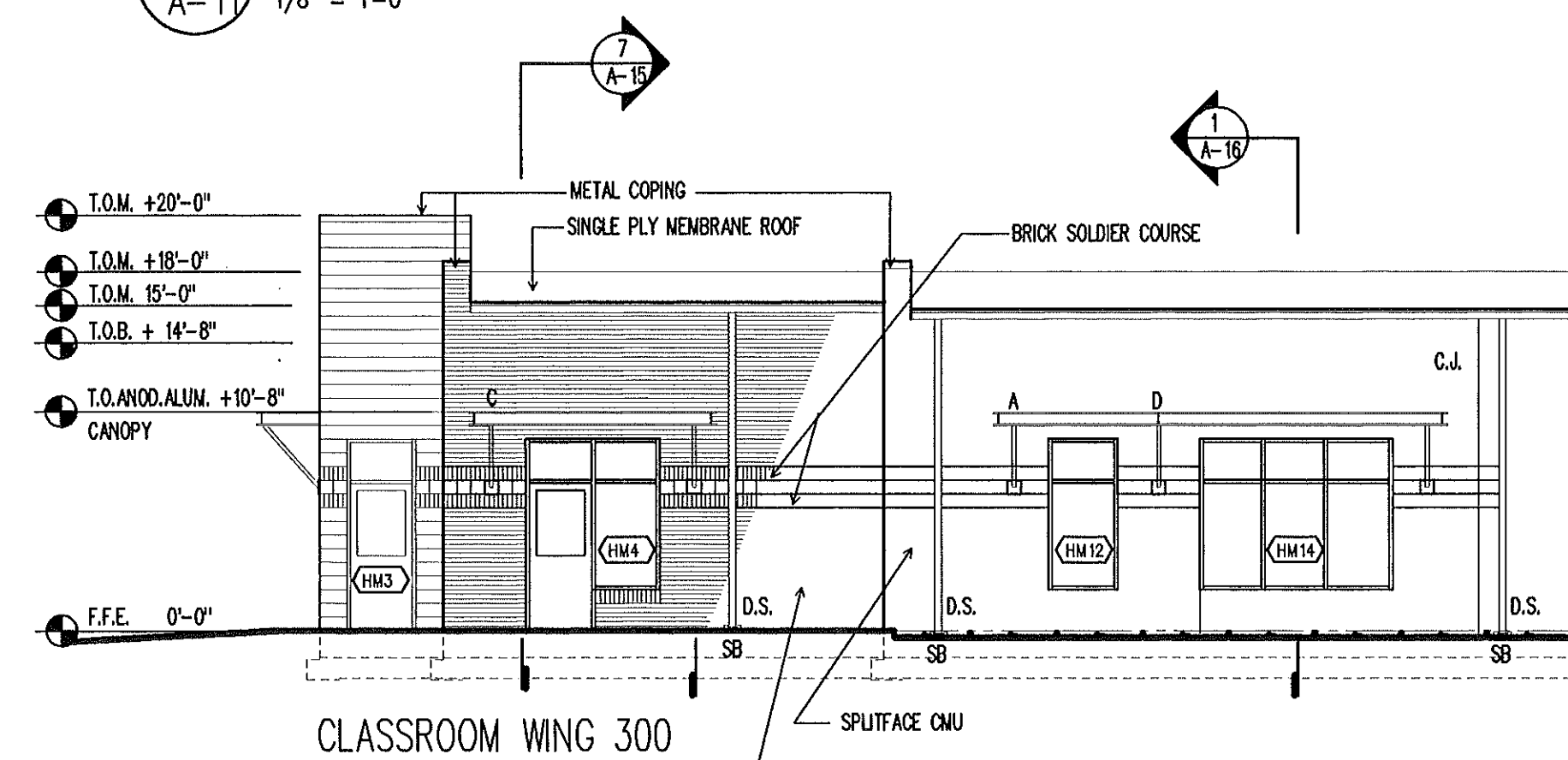
WEST ELEVATION W/ BID ALTERNATE G-1

A-11 1/8" = 1'-0"



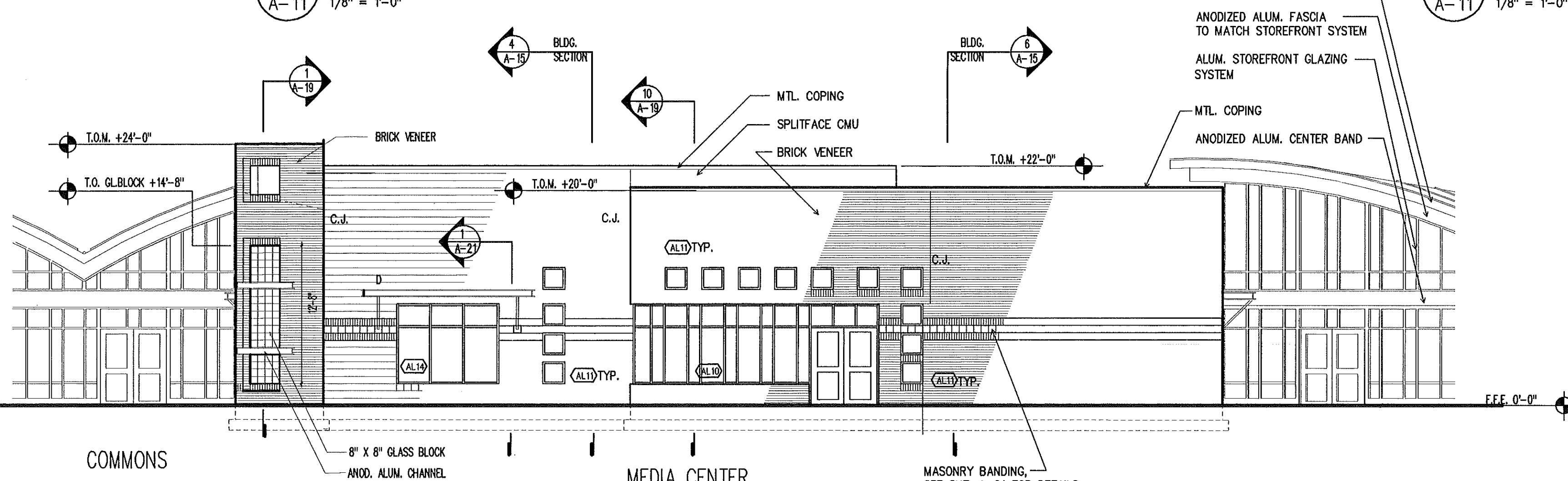
WEST ELEVATION W/ BID ALTERNATE G-1

A-11 1/8" = 1'-0"



WEST ELEVATION - BASE BID CONDITION

A-11 1/8" = 1'-0"

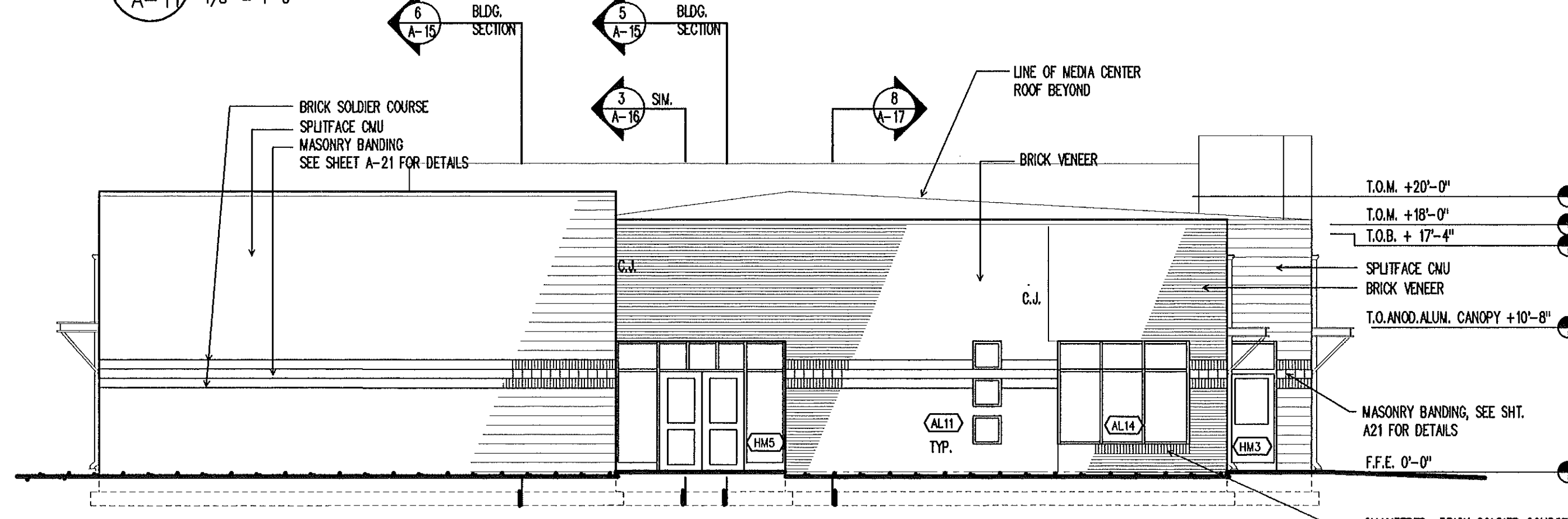


SOUTH ELEVATION

A-11 1/8" = 1'-0"

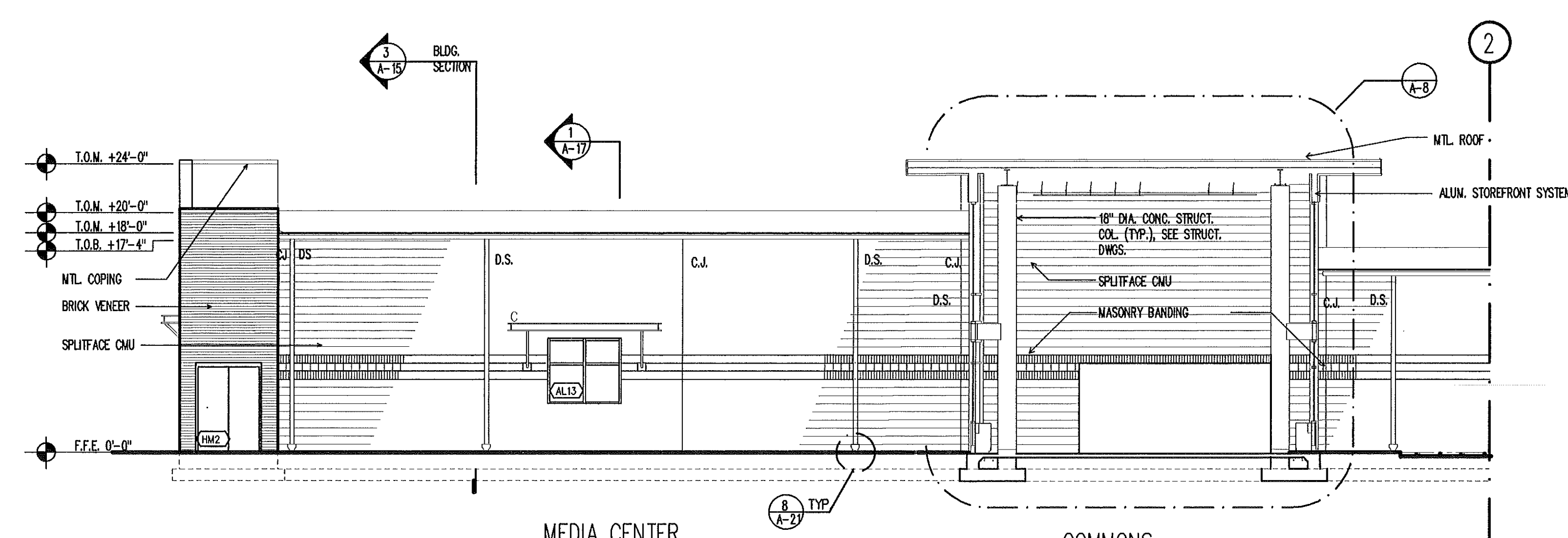
NORTH ELEVATION W/ BID ALTERNATE G-1

A-11 1/8" = 1'-0"



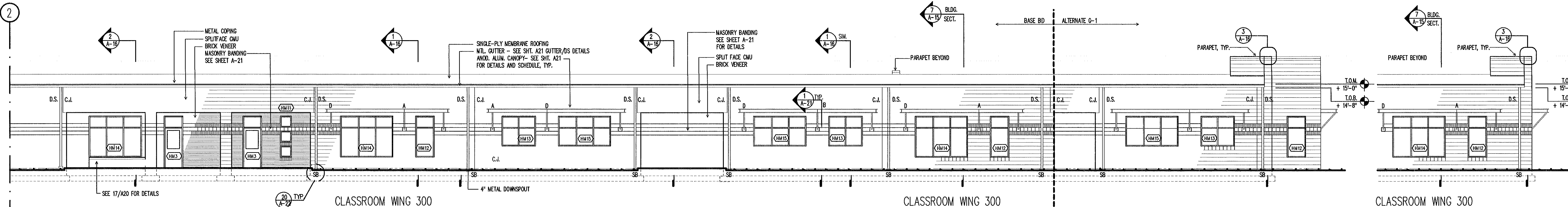
NORTH ELEVATION - BASE BID CONDITION

A-11 1/8" = 1'-0"



EAST ELEVATION

A-11 1/8" = 1'-0"



EAST ELEVATION W/ BID ALTERNATE G-1

A-11 1/8" = 1'-0"

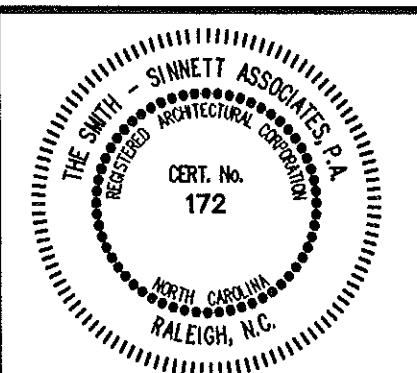
EAST ELEVATION - BASE BID CONDITION

A-11 1/8" = 1'-0"

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consultant

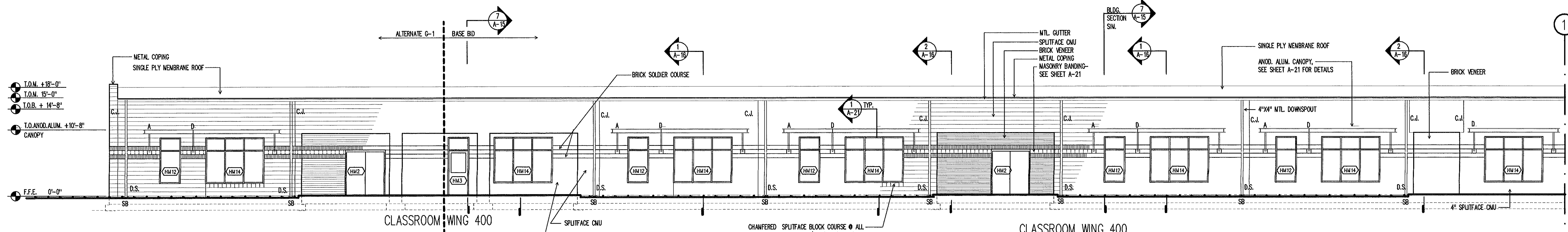
Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **RA, ABD, DVC**
drawn by: **RA**
checked by: **RA**

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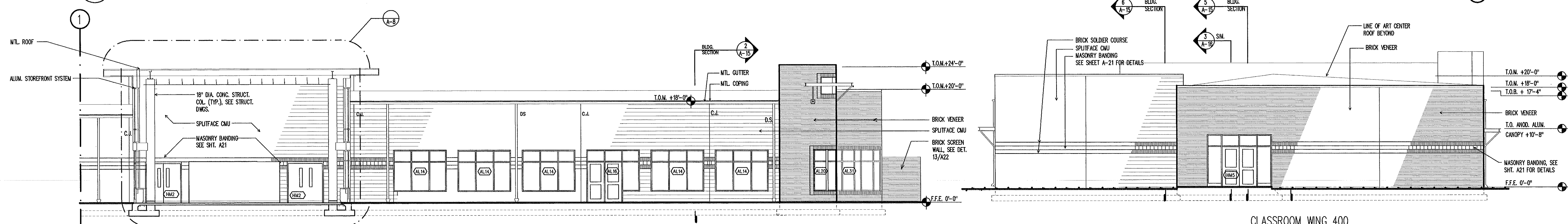
6-8-98

no.	description	date
Revisions		



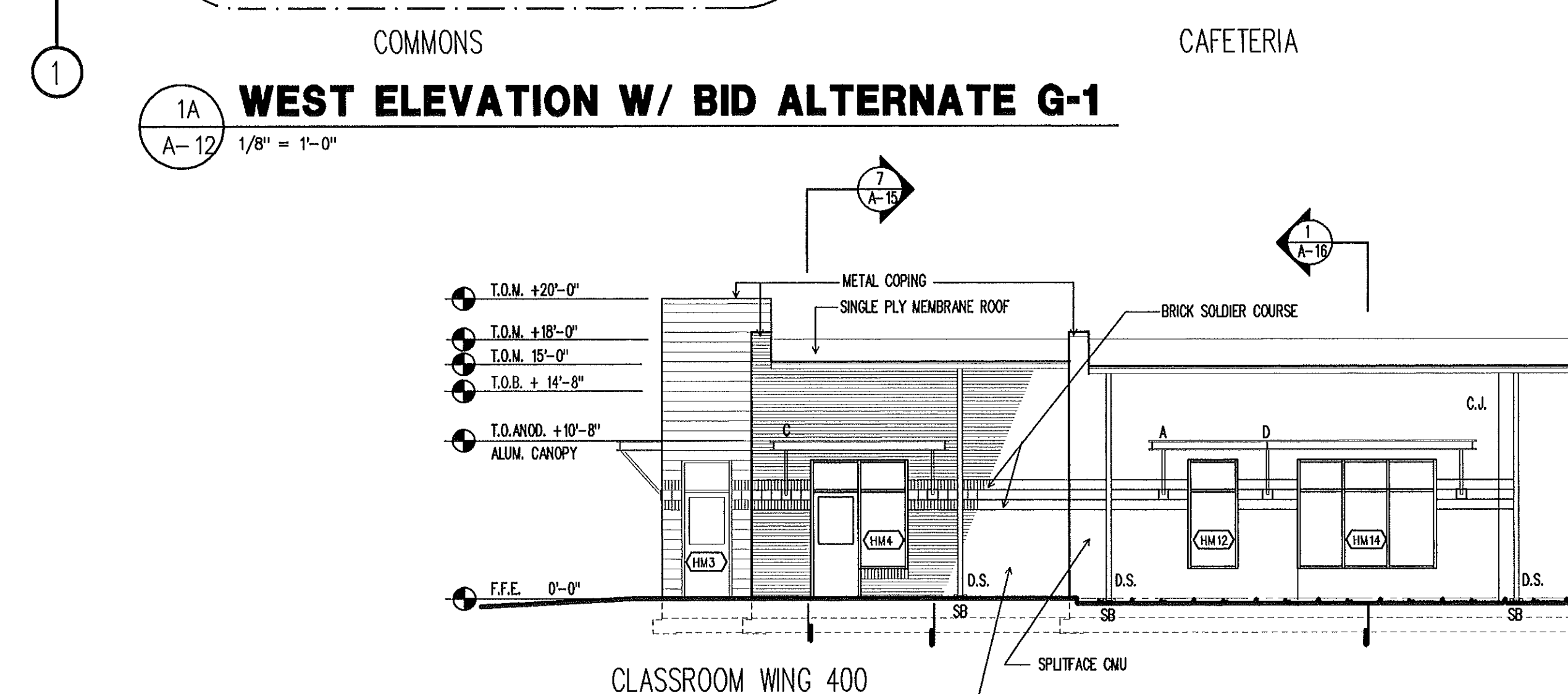
WEST ELEVATION W/ BID ALTERNATE G-1

1
A-12
1/8" = 1'-0"



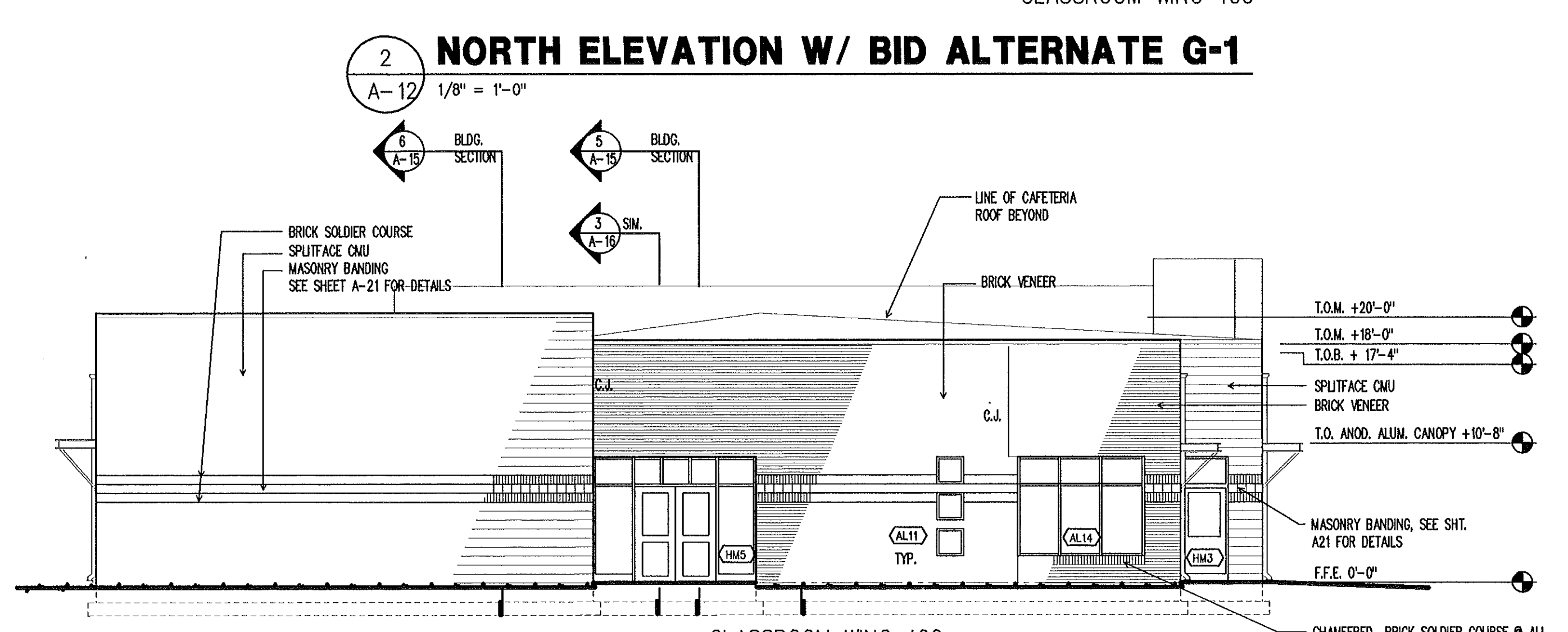
NORTH ELEVATION W/ BID ALTERNATE G-1

2
A-12
1/8" = 1'-0"



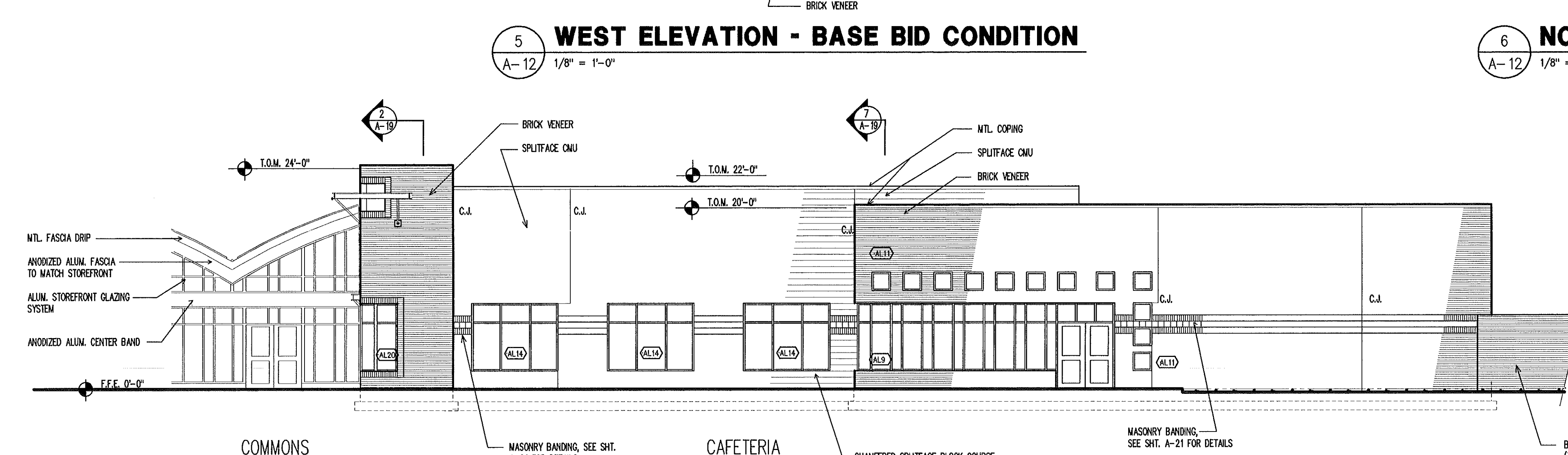
WEST ELEVATION - BASE BID CONDITION

5
A-12
1/8" = 1'-0"



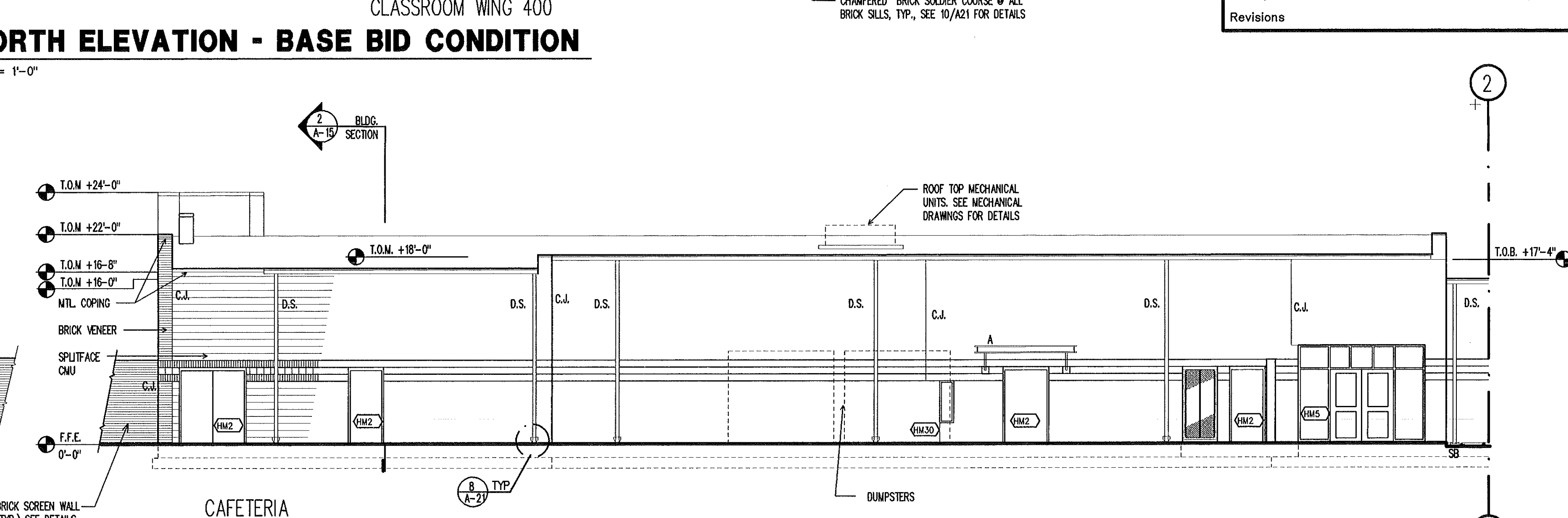
NORTH ELEVATION - BASE BID CONDITION

6
A-12
1/8" = 1'-0"



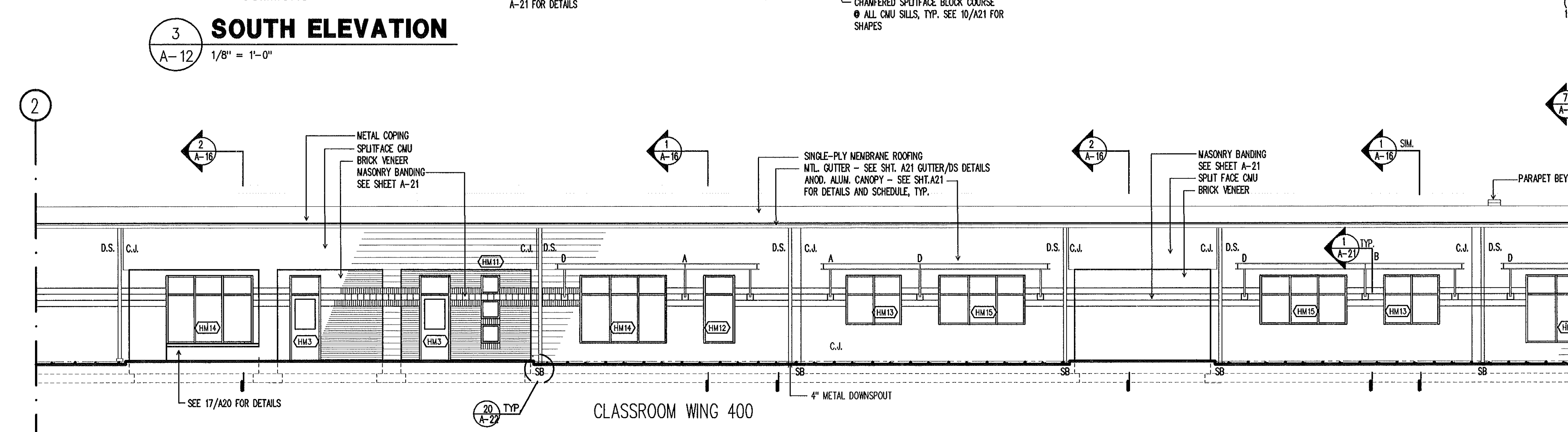
SOUTH ELEVATION

3
A-12
1/8" = 1'-0"



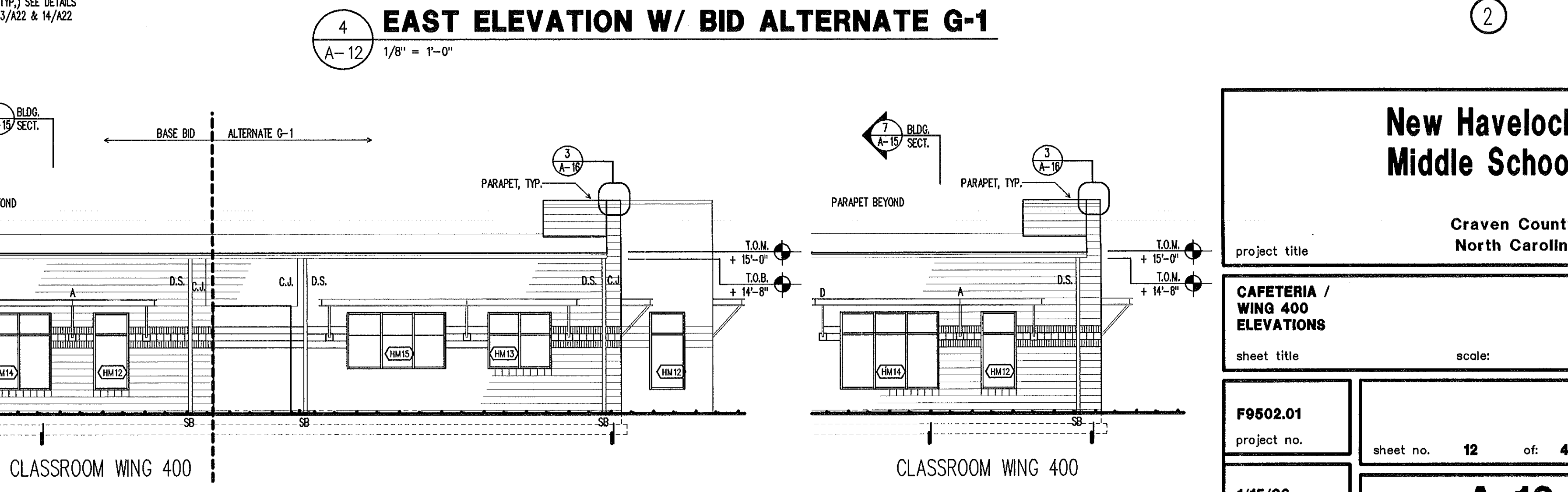
EAST ELEVATION W/ BID ALTERNATE G-1

4
A-12
1/8" = 1'-0"



EAST ELEVATION W/ BID ALTERNATE G-1

4A
A-12
1/8" = 1'-0"



EAST ELEVATION - BASE BID CONDITION

7
A-12
1/8" = 1'-0"

New Havelock Middle School

Craven County
North Carolina

project title

**CAFETERIA /
WING 400
ELEVATIONS**

sheet title

scale:

F9502.01

project no.

sheet no. **12** of **43**

1/15/98

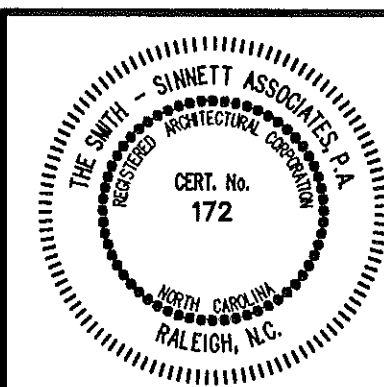
date

sheet no. **A-12**

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checked by: **RA**

completion of the contract.

6-8-9

Revisions

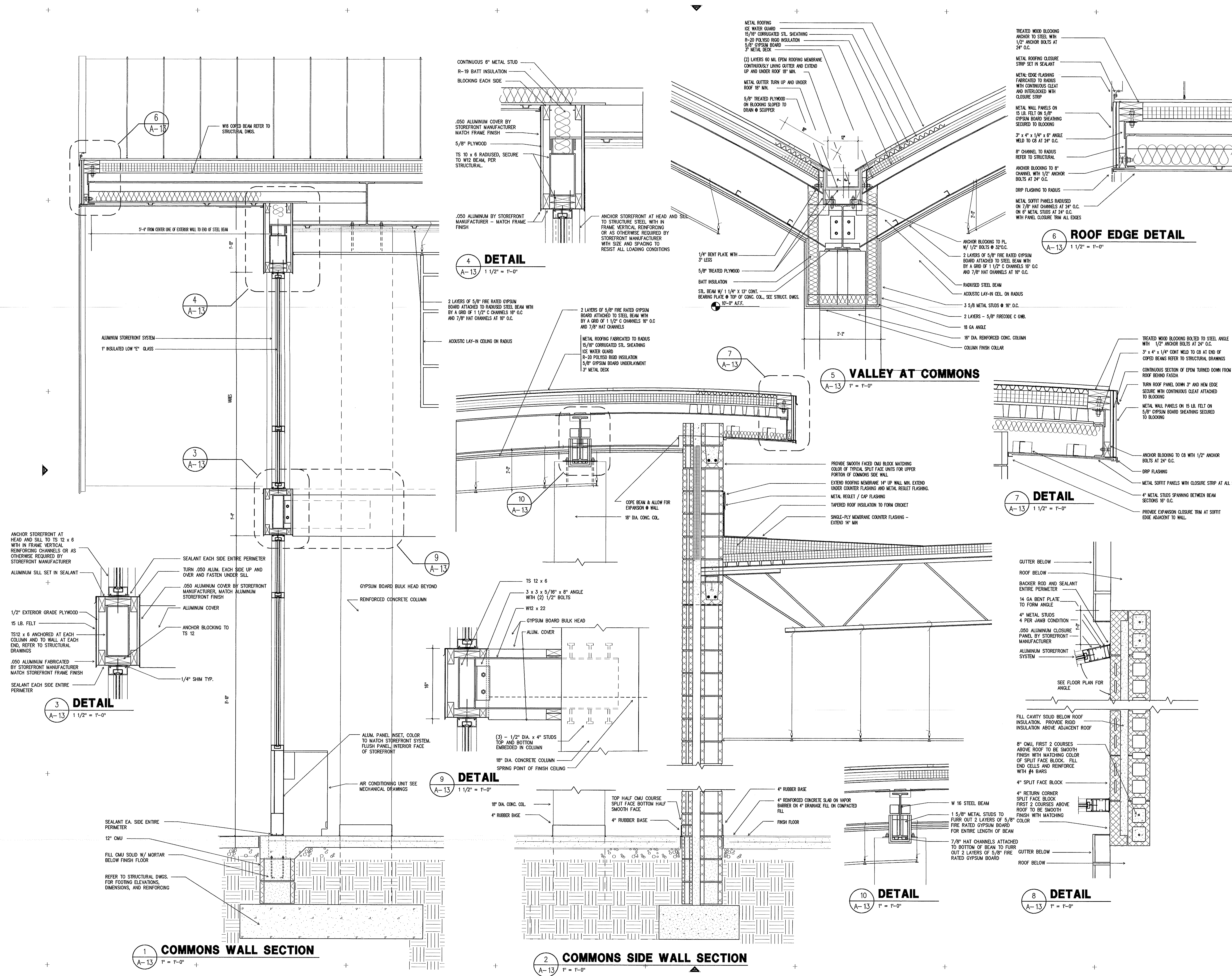
**Craven County
North Carolina**

scale'

A-13

A 10

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consultant

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Revisions

New Havelock Middle School

Craven County
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ADMINISTRATION CROSS SECTIONS
GYMNASIUM CROSS SECTION
ARTS CENTER CROSS SECTIONS

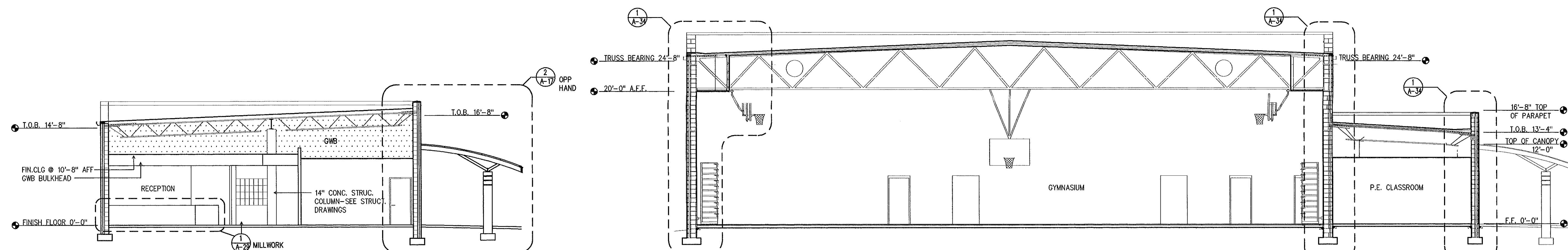
sheet title scale:

F9502.01
project no.

01/16/96
date

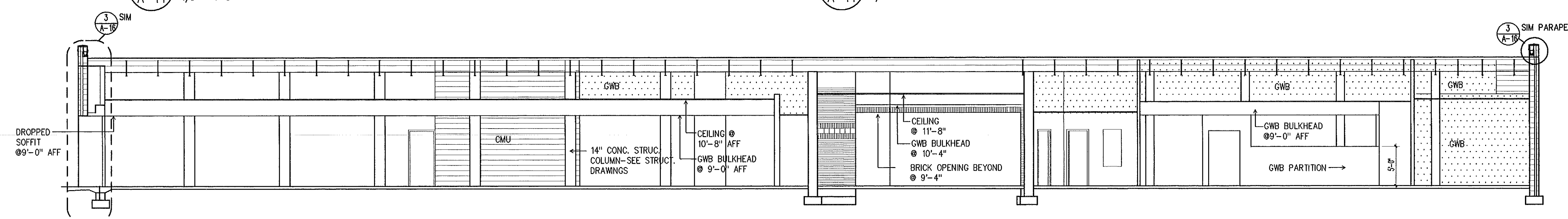
sheet no. **A-14** of: **A-43**

sheet no. **A-14**

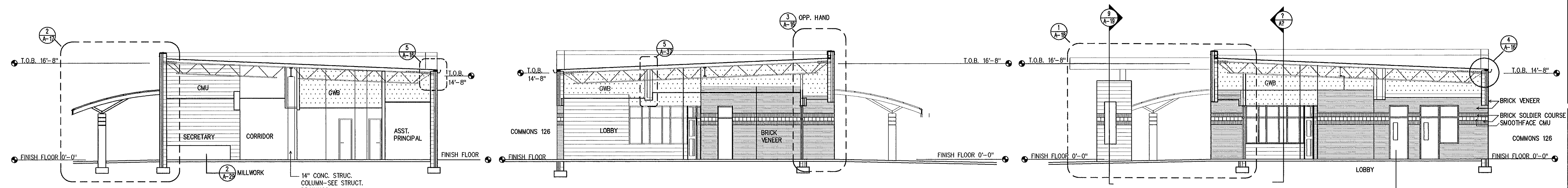


1 ADMINISTRATION CROSS SECTION

6 GYMNASIUM SECTION



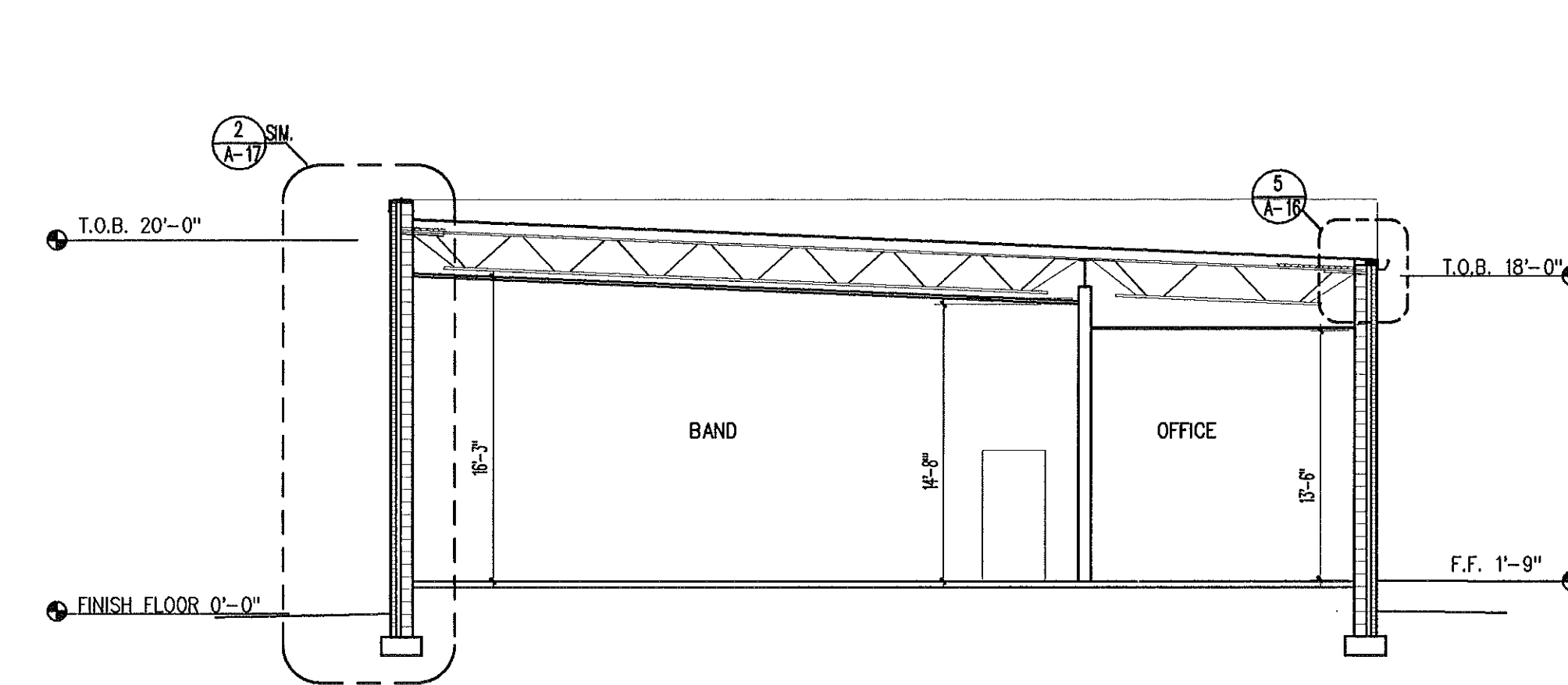
2 ADMINISTRATION LONGITUDINAL SECTION



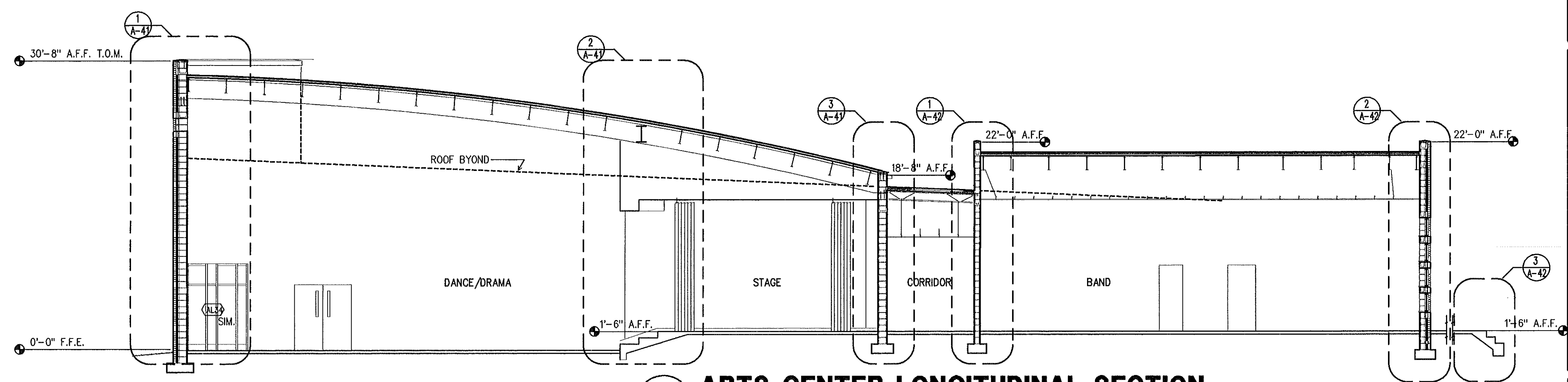
3 ADMINISTRATION CROSS SECTION

4 ADMINISTRATION LOBBY CROSS SECTION

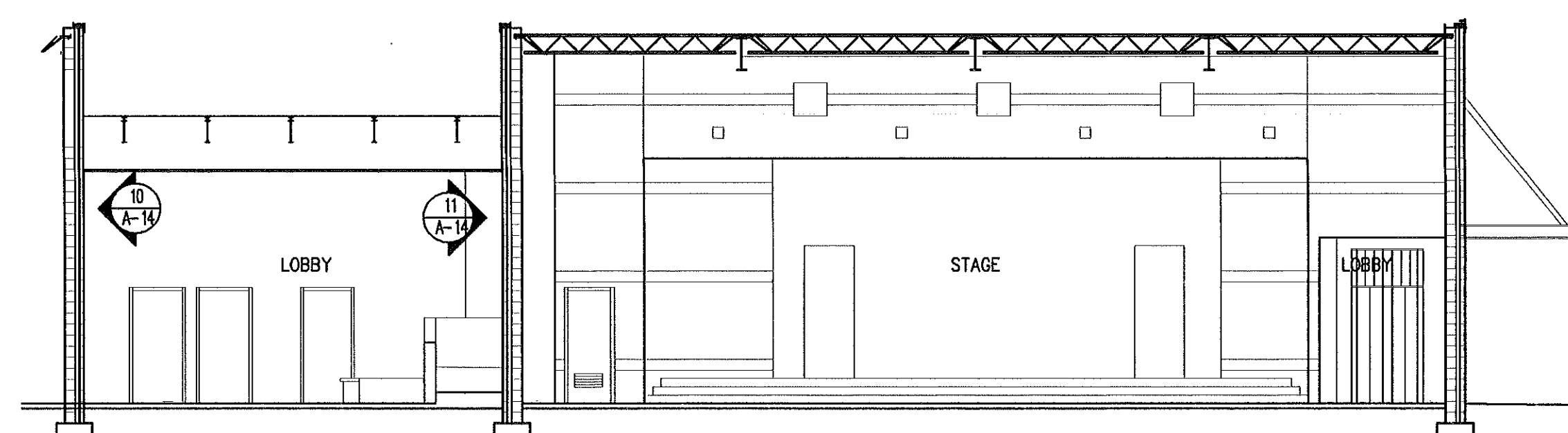
5 ADMINISTRATION LOBBY CROSS SECTION



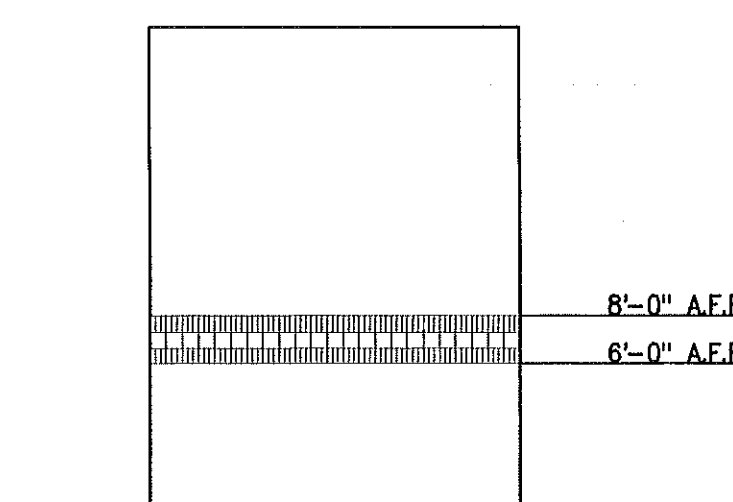
7 BAND CROSS SECTION



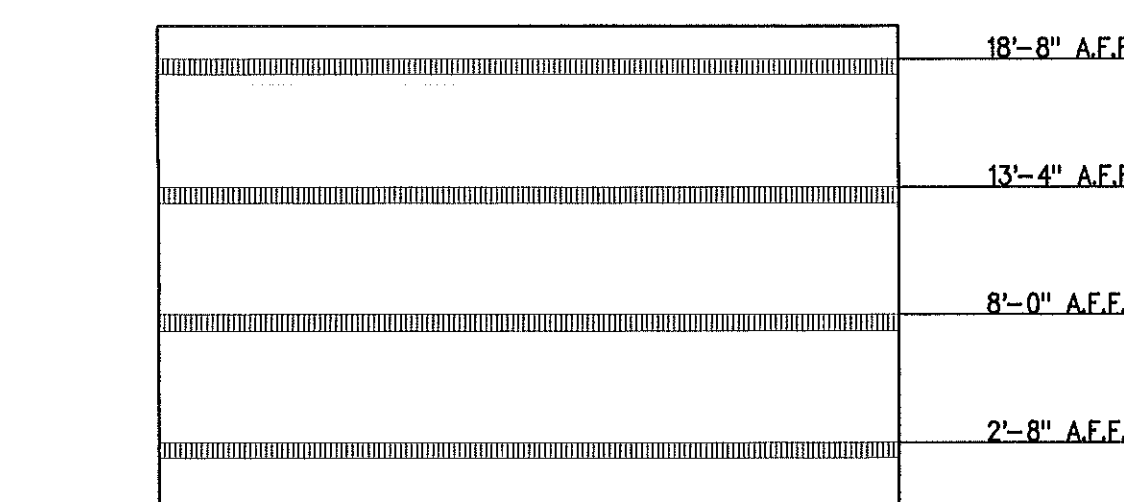
8 ARTS CENTER LONGITUDINAL SECTION



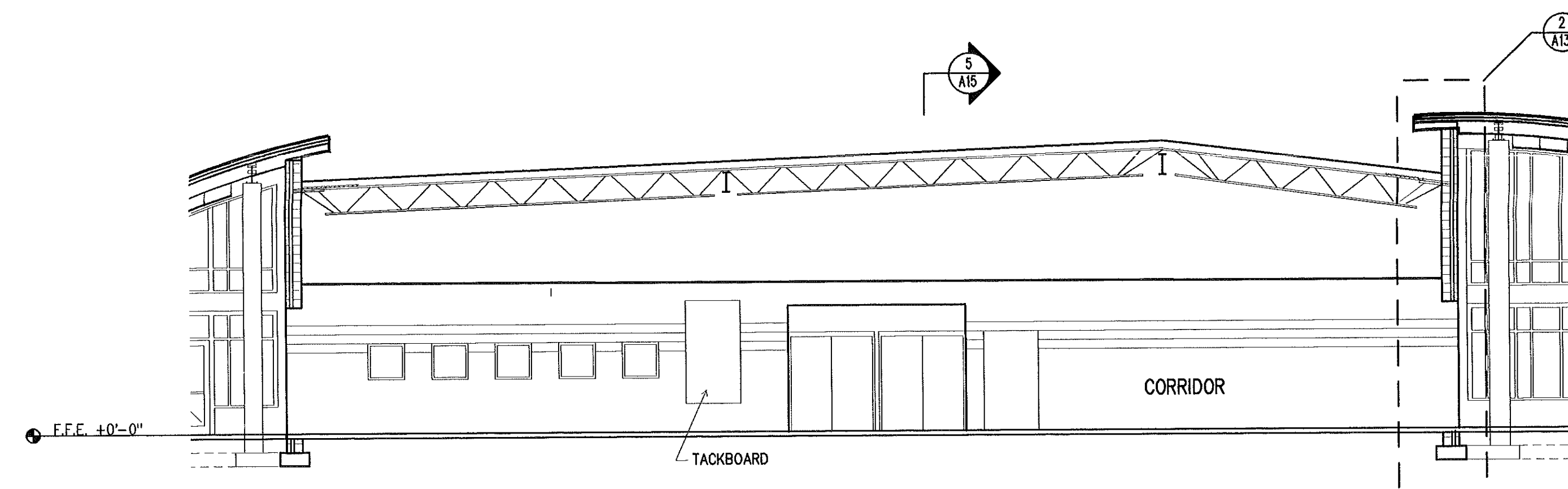
9 ARTS CROSS SECTION/STAGE ELEVATION



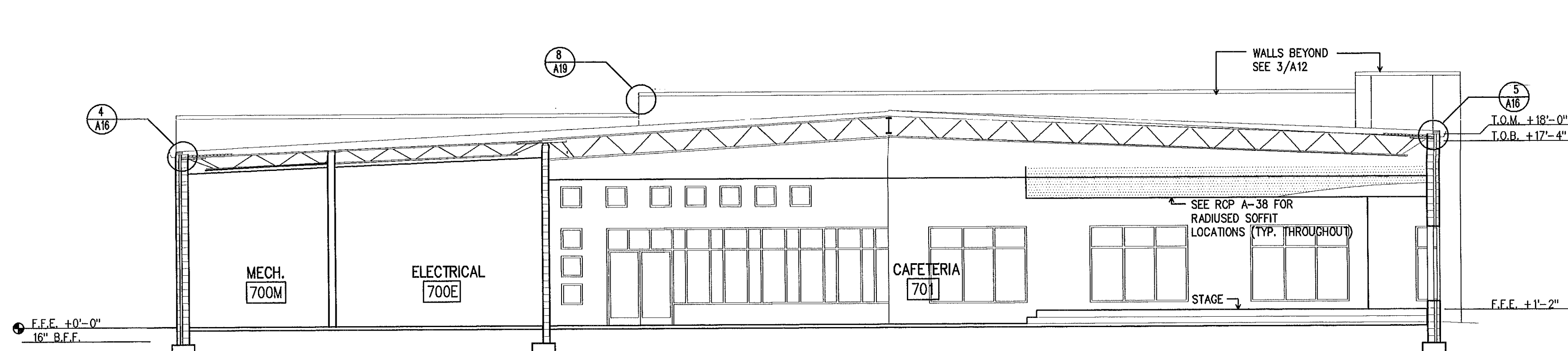
10 ARTS LOBBY WALL PATTERN-NORTH



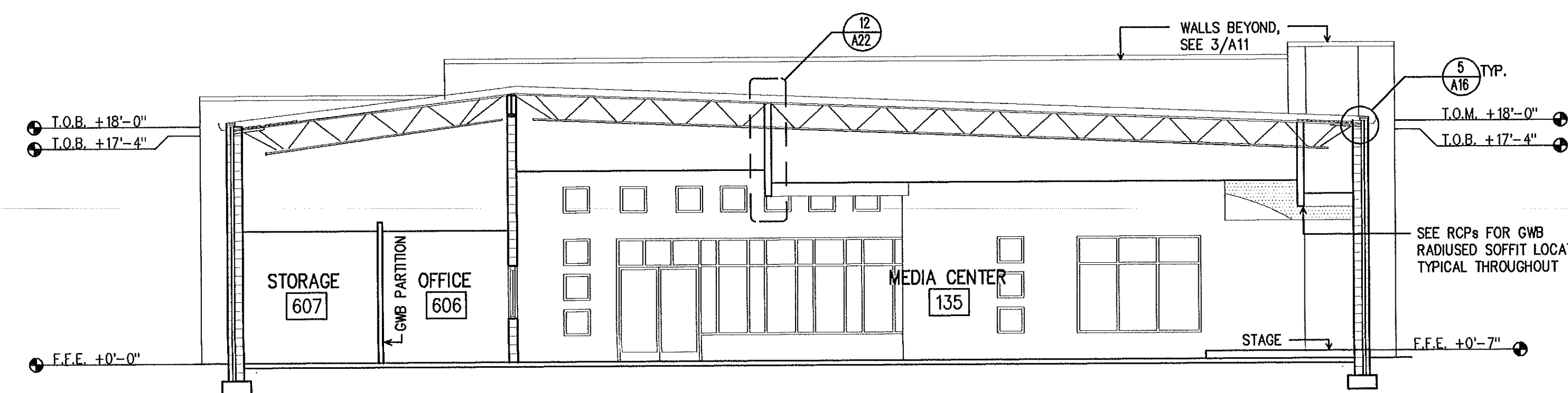
11 ARTS LOBBY WALL PATTERN-SOUTH



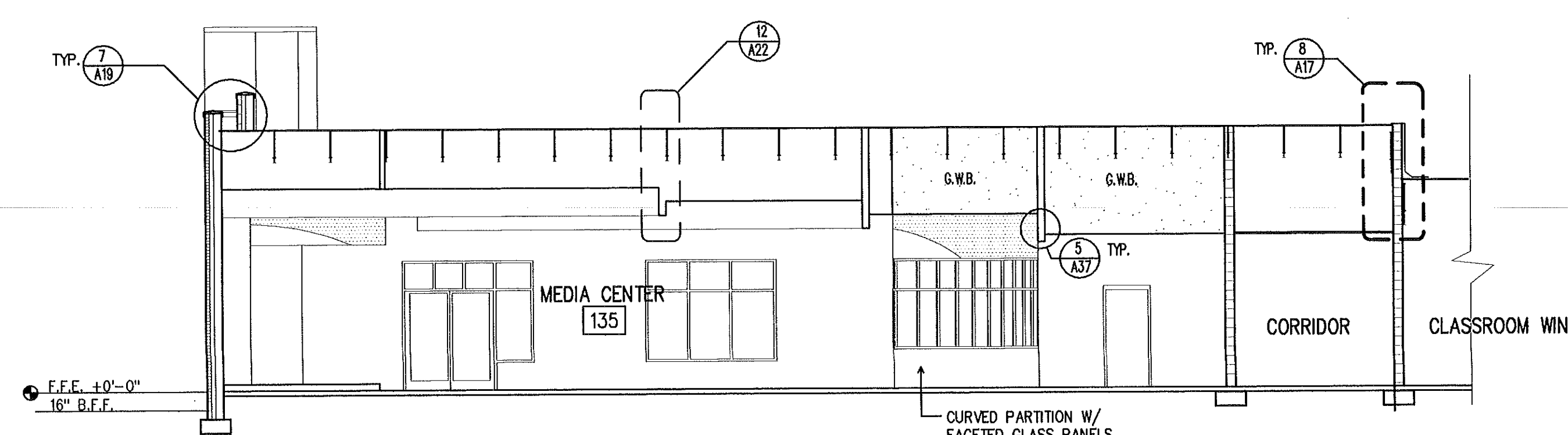
1 TYPICAL CORRIDOR CROSS SECTION
A-15 1/8" = 1'-0"



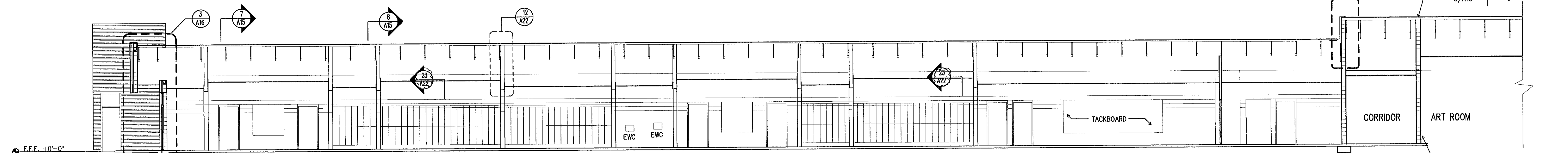
2 CAFETERIA BUILDING SECTION
A-15 1/8" = 1'-0"



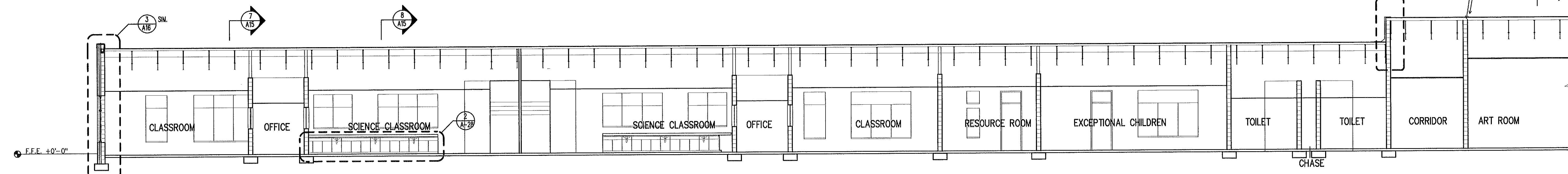
3 MEDIA SECTION
A-15 1/8" = 1'-0"



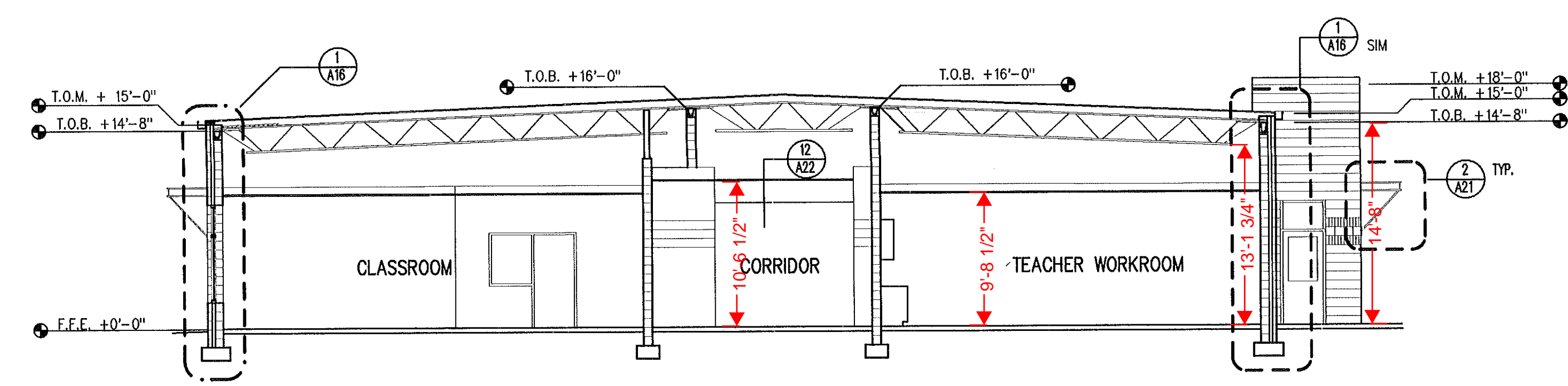
4 MEDIA BUILDING SECTION
A-15 1/8" = 1'-0"



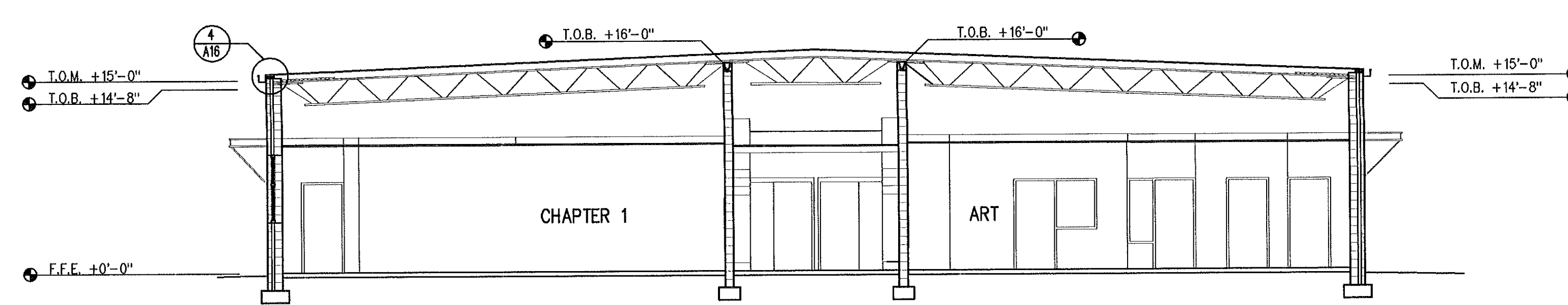
5 WING HALLWAY LONGITUDINAL SECTION
A-15 1/8" = 1'-0"



6 TYPICAL WING LONGITUDINAL SECTION
A-15 1/8" = 1'-0"



7 WING CROSS SECTION
A-15 1/8" = 1'-0"

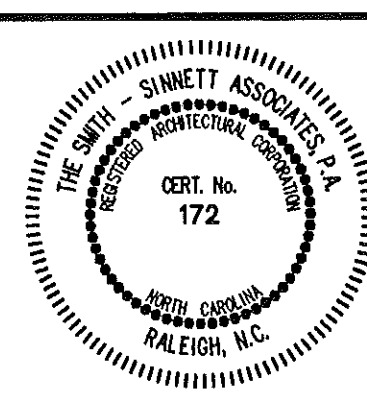


8 EXPLORATORY WING CROSS SECTION
A-15 1/8" = 1'-0"

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Project Architect: JFS
Project Engineer: LFC
drawn by: RA
checked by: RA

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6-8-98

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Revisions

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North Carolina

project title

BUILDING SECTIONS

sheet title scale:

F9502.01
project no. sheet no. 15 of 43

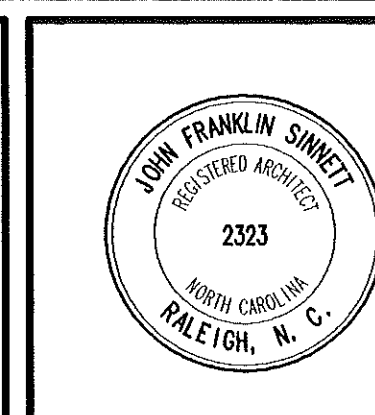
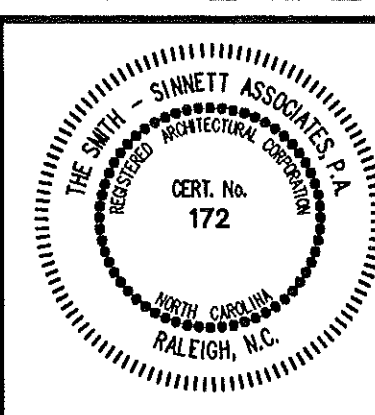
1/15/98
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Project Engineer:
drawn by: **LFC, ADP**
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Craven County
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project title

WALL SECTIONS THRU CLASSROOMS

sheet title scale:

F9502.01

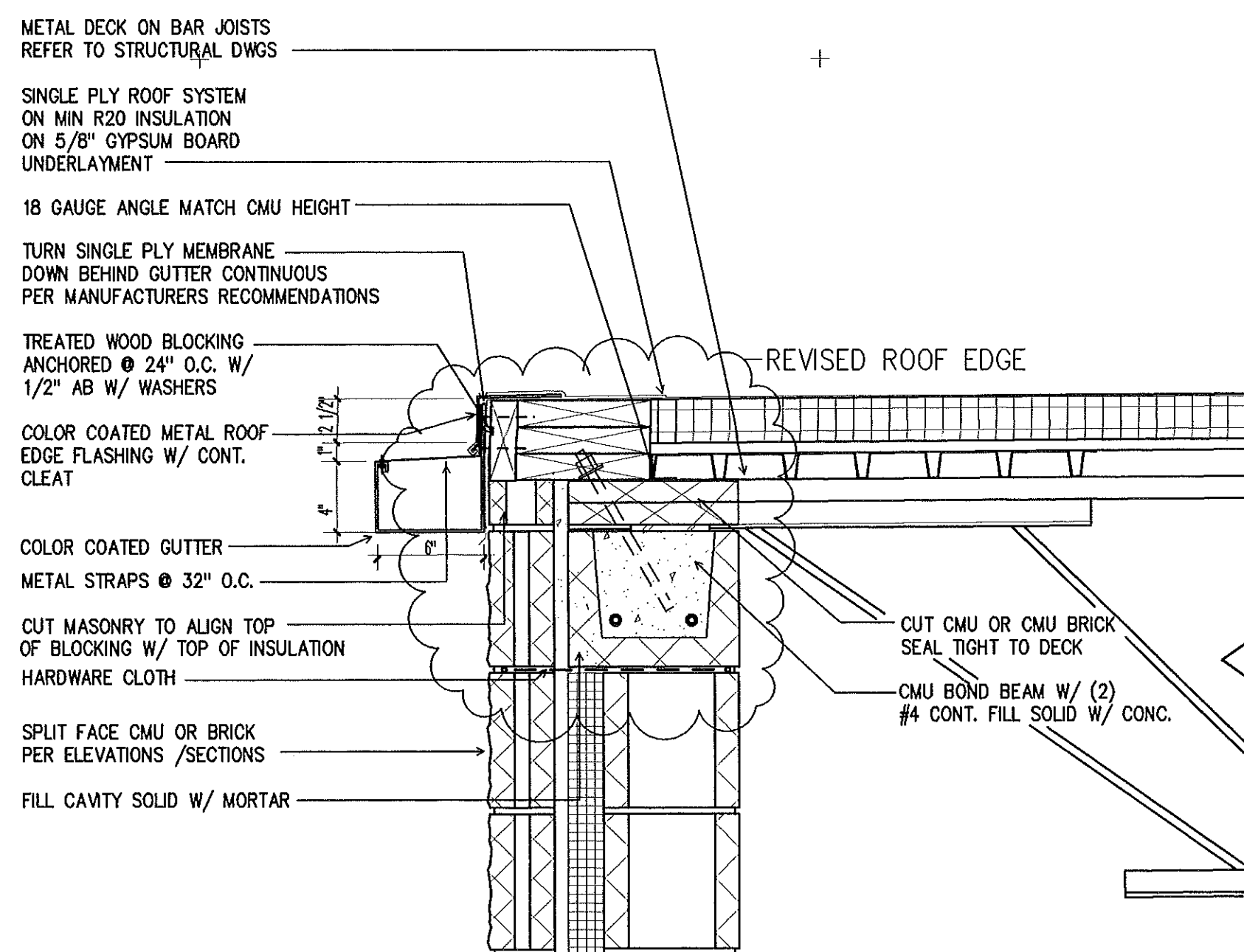
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1/15/98

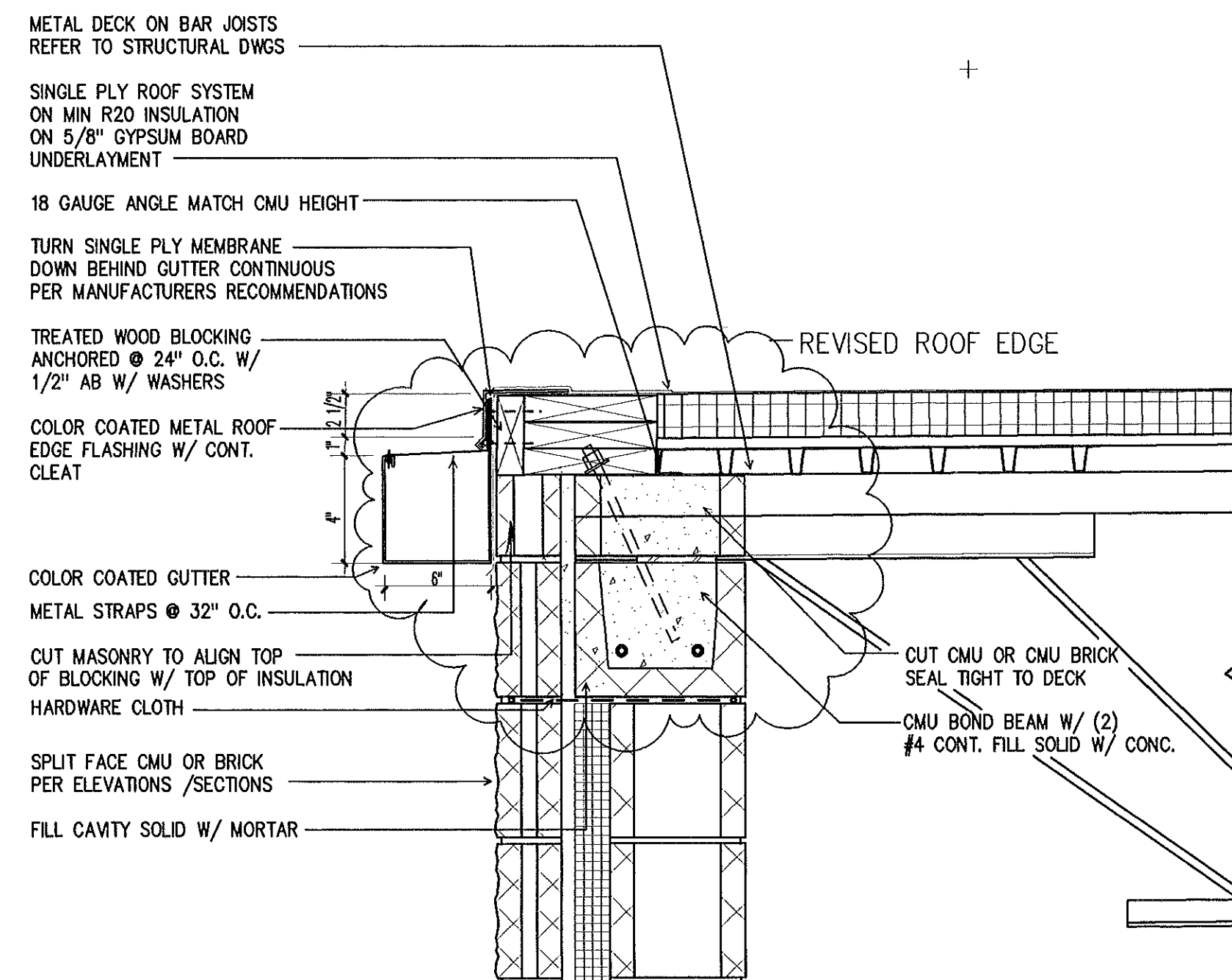
date

sheet no. 16 of 43

sheet no. **A-16**

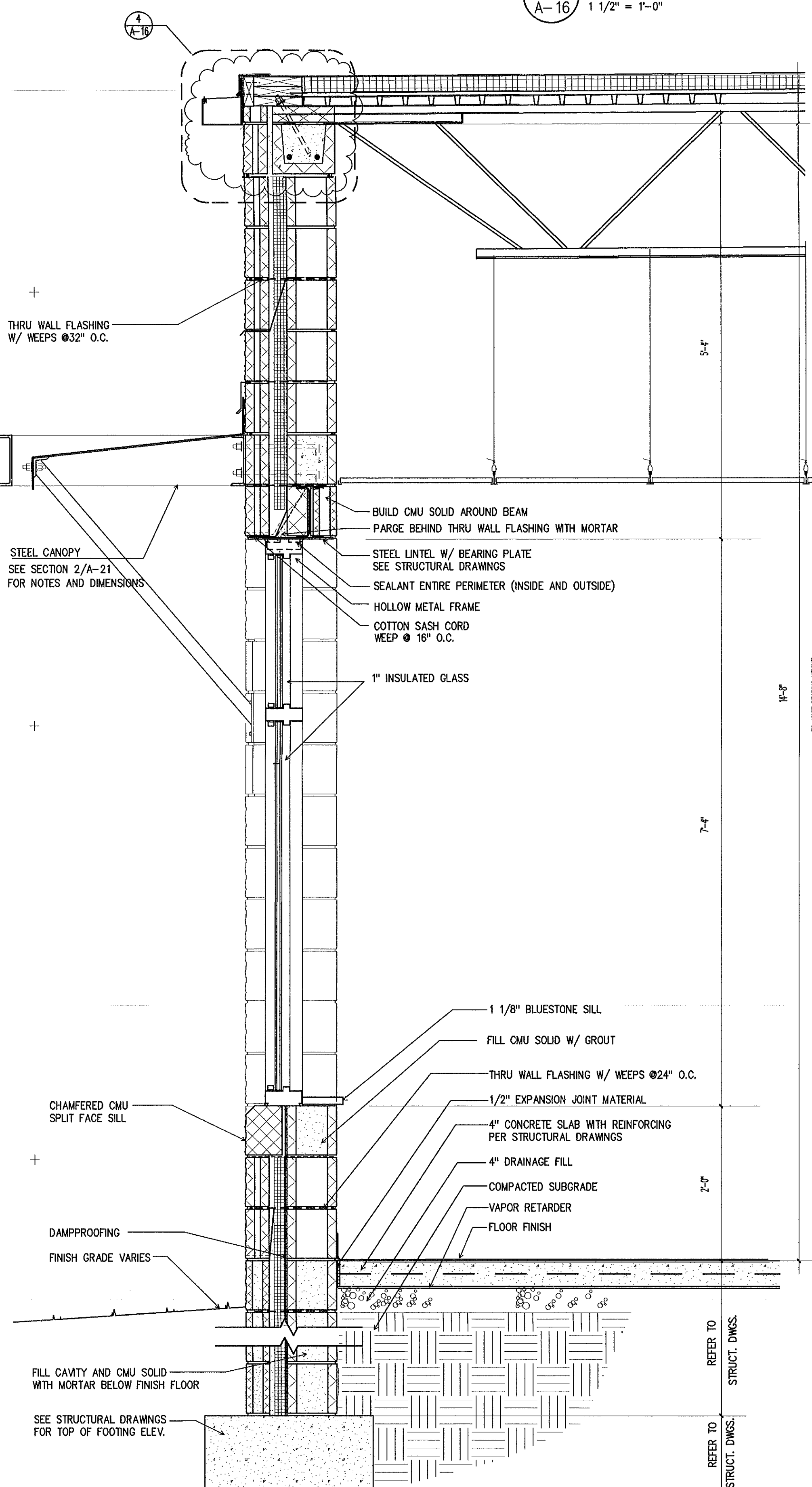
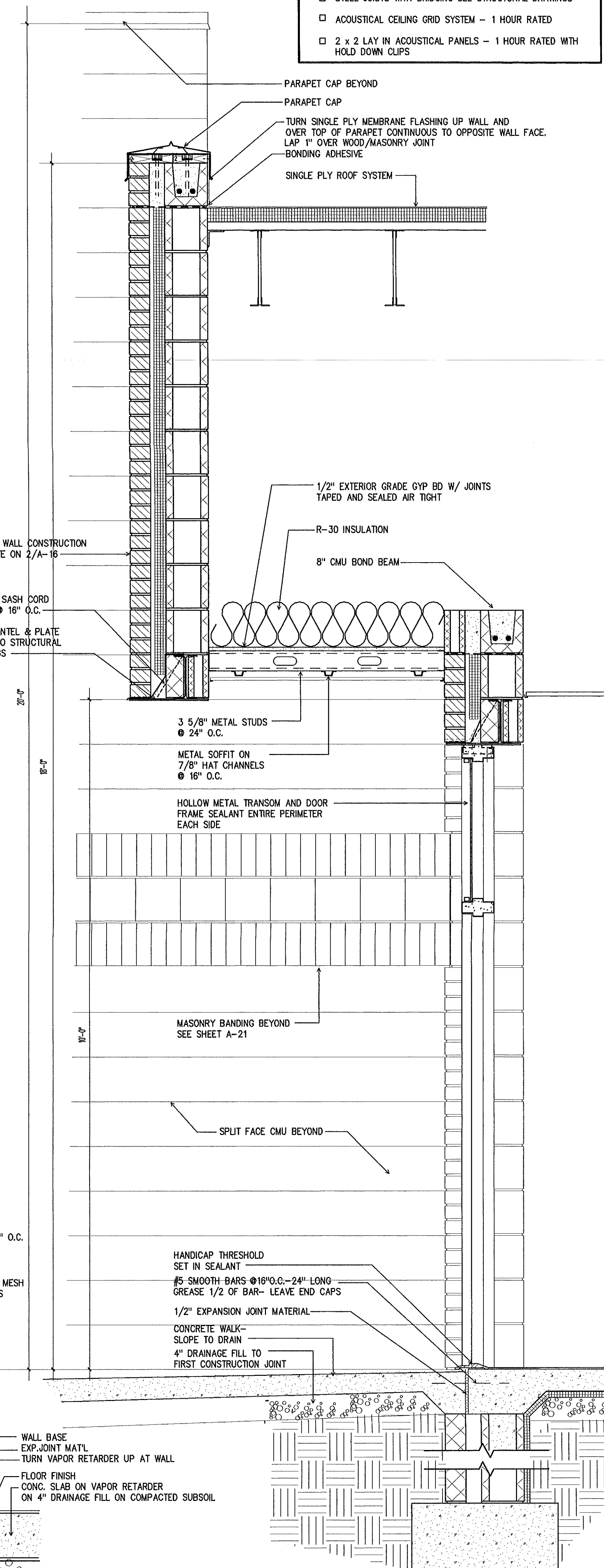


4 GUTTER DETAIL
A-16 1 1/2" = 1'-0"

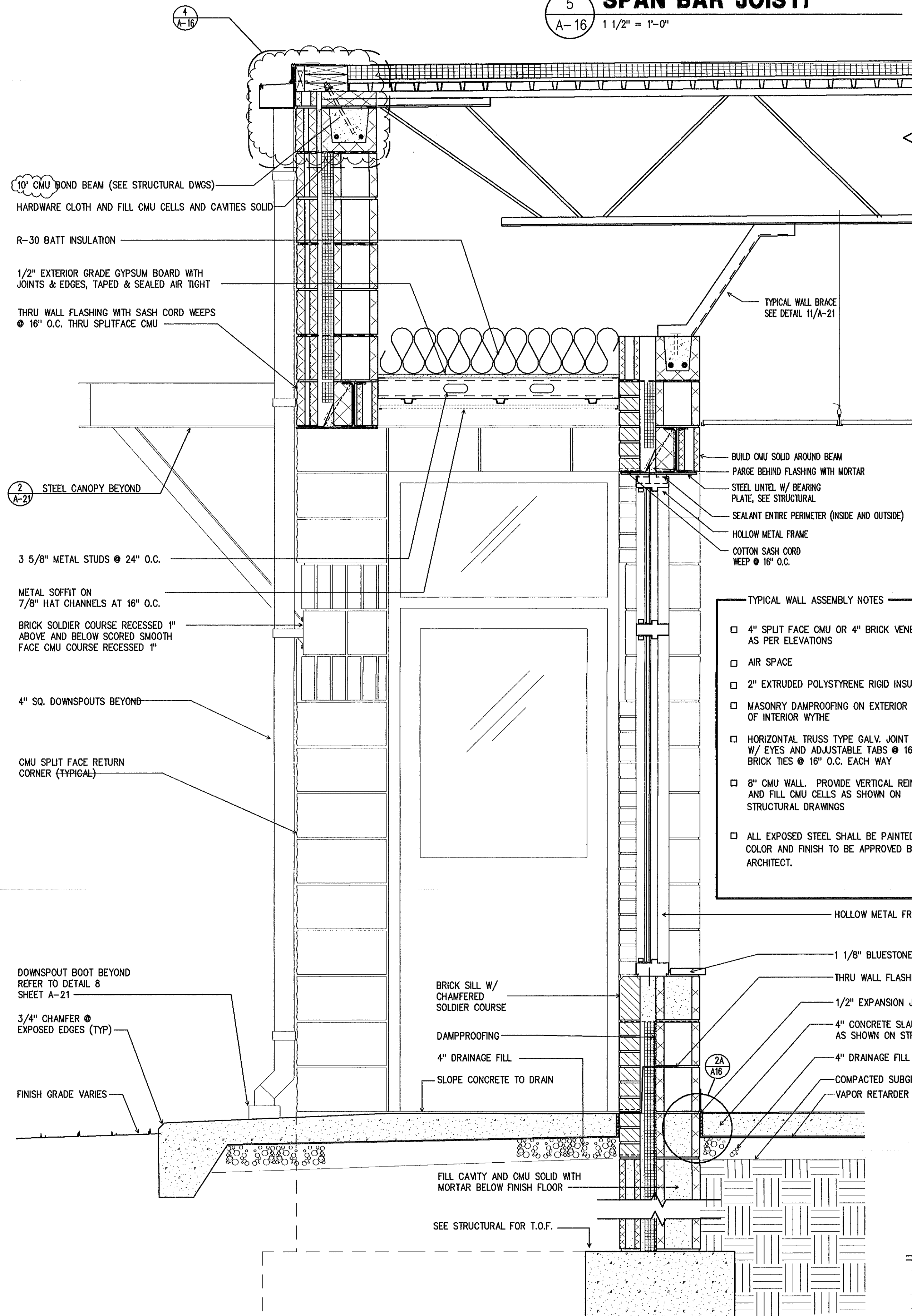


5 GUTTER DETAIL (AT LONG
SPAN BAR JOIST)
A-16 1 1/2" = 1'-0"

- TYPICAL ROOF/CEILING ASSEMBLY NOTE
- ROOF CONSTRUCTION - U.L. P225, 1 HOUR RATED SYSTEM
 - REINFORCED SINGLE PLY MEMBRANE ROOF SYSTEM ON R-20 RIGID INSULATION.
 - 5/8" GYPSUM WALLBOARD APPLIED PERPENDICULAR TO STEEL ROOF DECK DIRECTION. END JOINTS TO OCCUR OVER CRESTS OF STEEL ROOF DECK WITH END JOINTS STAGGERED 2 FEET IN ADJACENT ROWS.
 - STEEL ROOF DECK, SEE STRUCTURAL DWGS.
 - STEEL JOISTS WITH BRIDGING SEE STRUCTURAL DRAWINGS
 - ACOUSTICAL CEILING GRID SYSTEM - 1 HOUR RATED
 - 2 x 2 LAY IN ACOUSTICAL PANELS - 1 HOUR RATED WITH HOLD DOWN CLIPS



1 WALL SECTION
A-16 1" = 1'-0"



2 WALL SECTION
A-16 1" = 1'-0"

2A TYP. SLAB DETAIL AT WALL
A-16 NTS

3 END WALL SECTION
A-16 1" = 1'-0"

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Project Engineer: LFC

drawn by: RA

checked by:

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Craven County
North Carolina

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FRONT CANOPY ENTRY SECTION

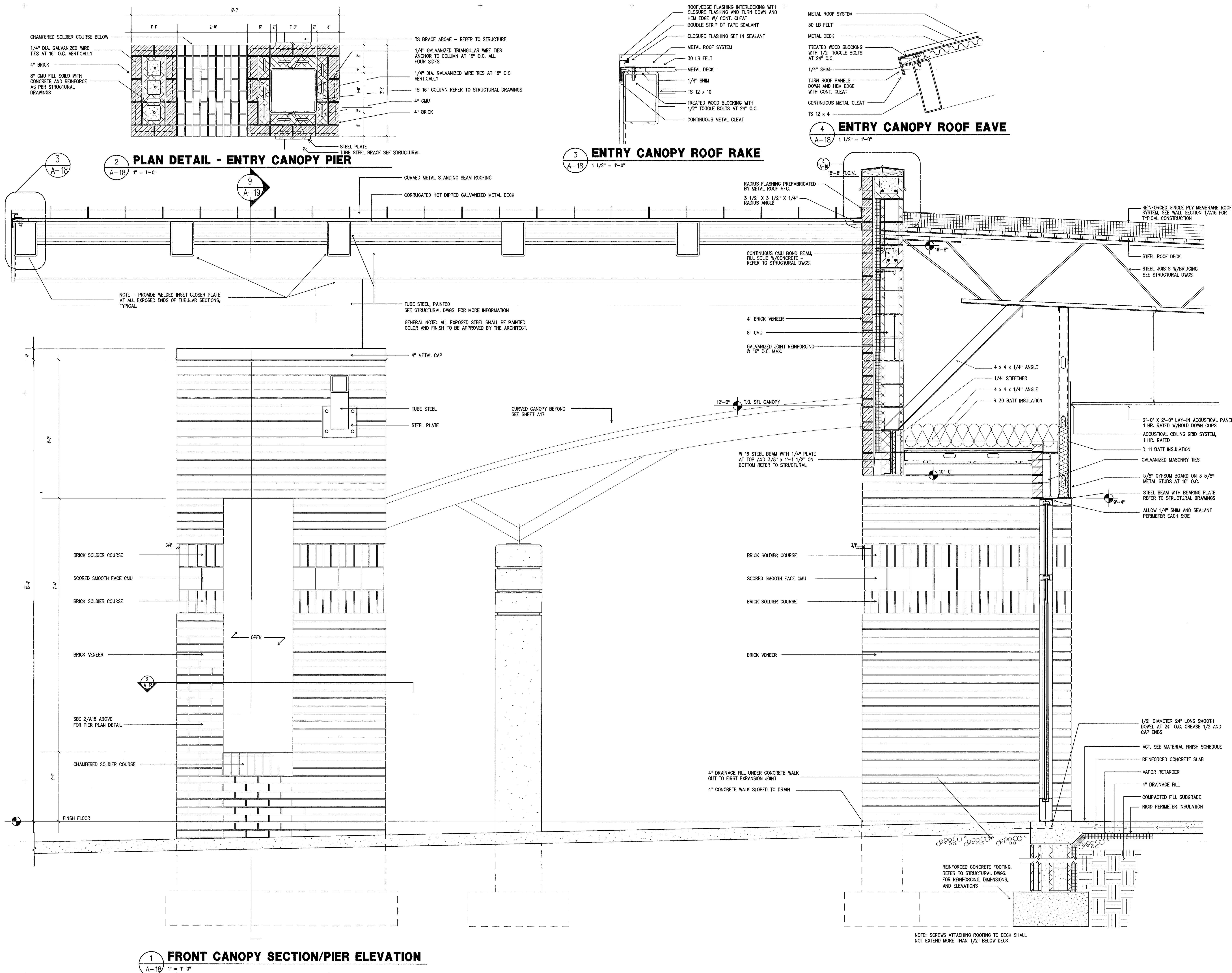
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F9502.01
project no.

01/16/96
date

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sheet no. A-18

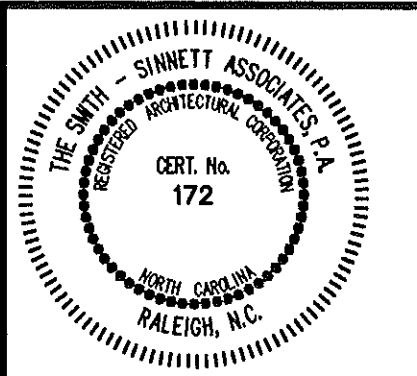


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Craven County
North Carolina

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WALL SECTIONS, PARAPET DETAIL

sheet title

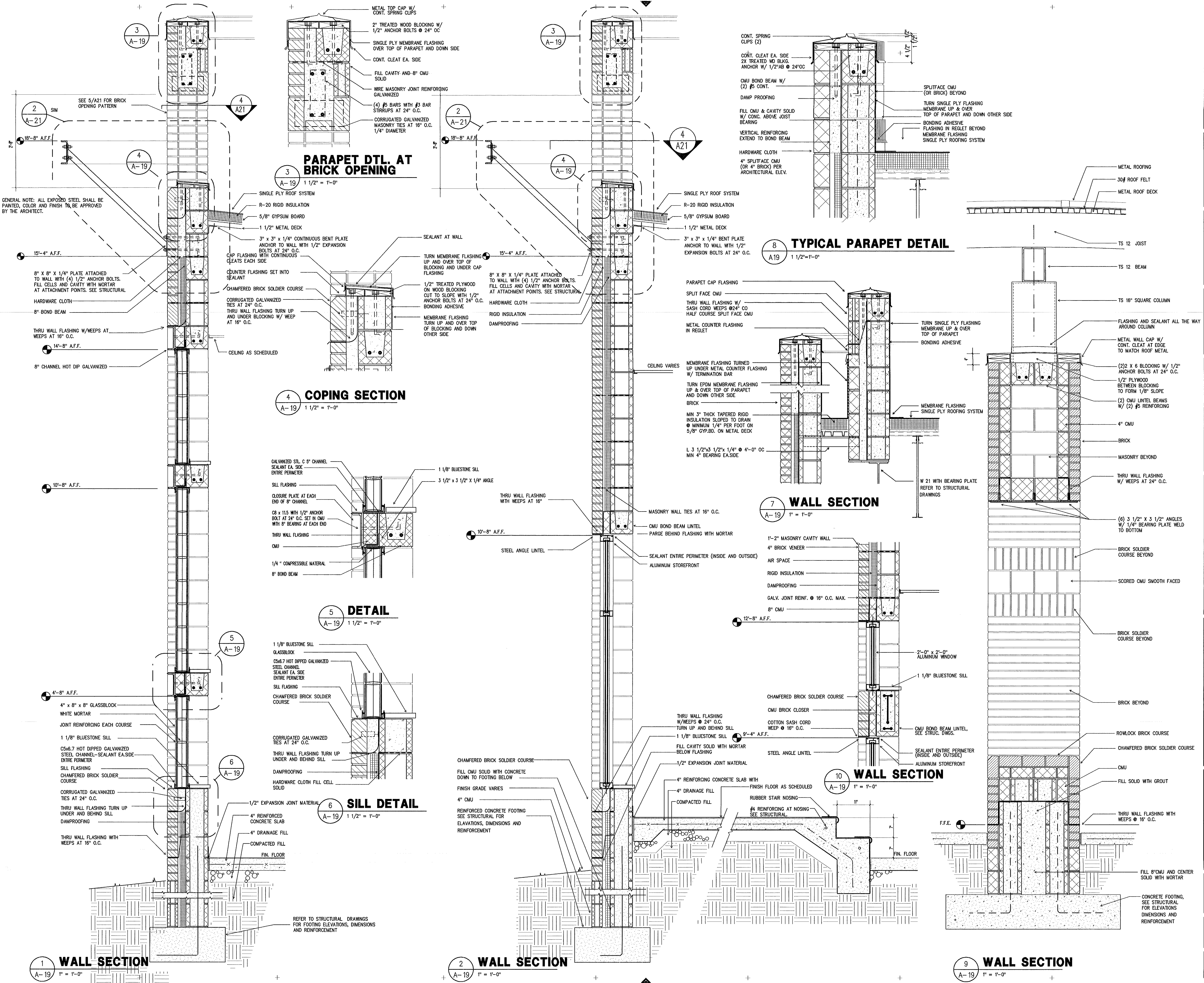
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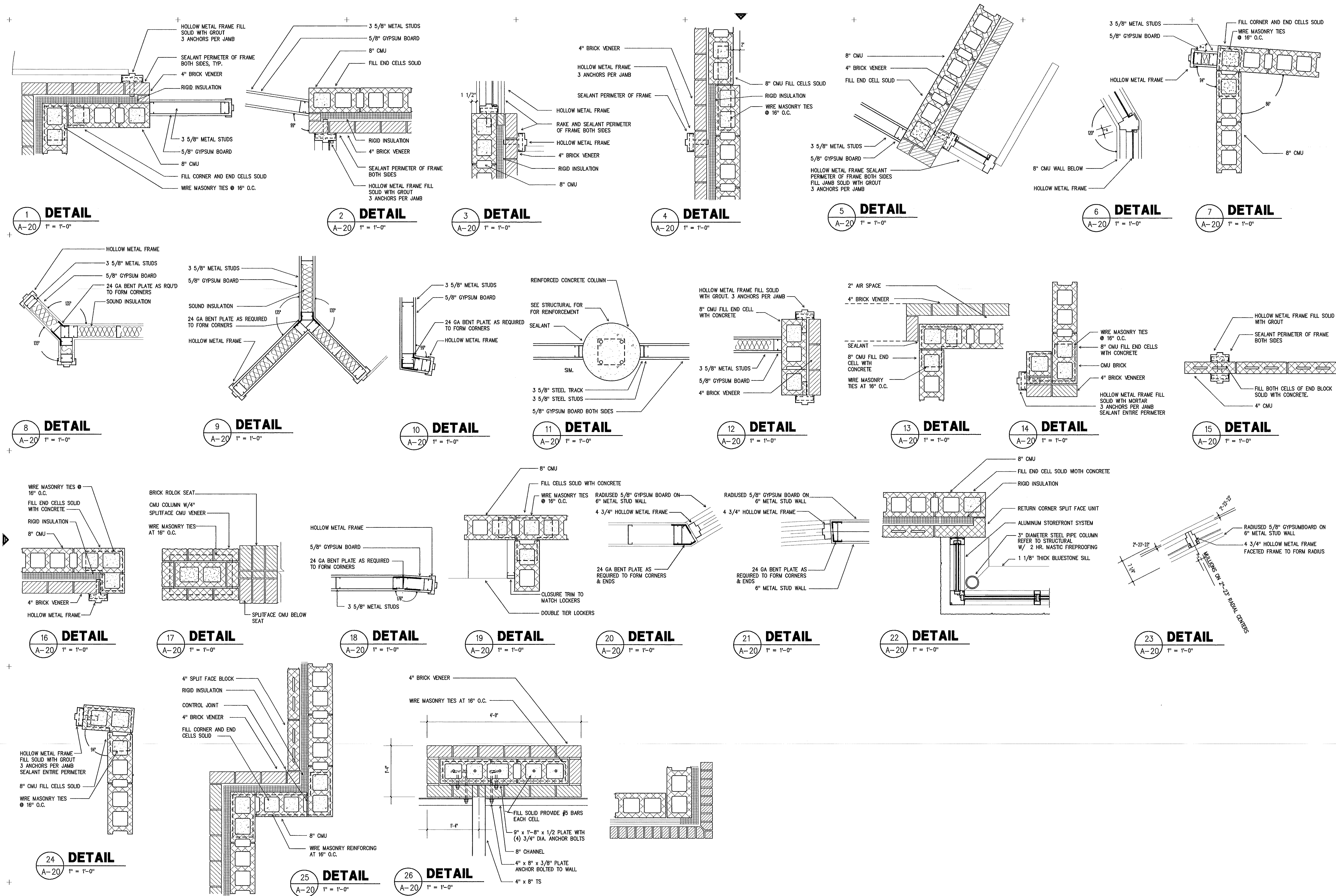
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project no.

sheet no. 19 of 43

1/15/98
date

sheet no. A-19

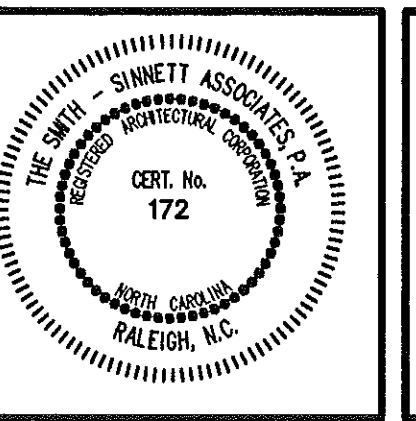




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PLAN DETAILS

sheet title scale:

F9502.01

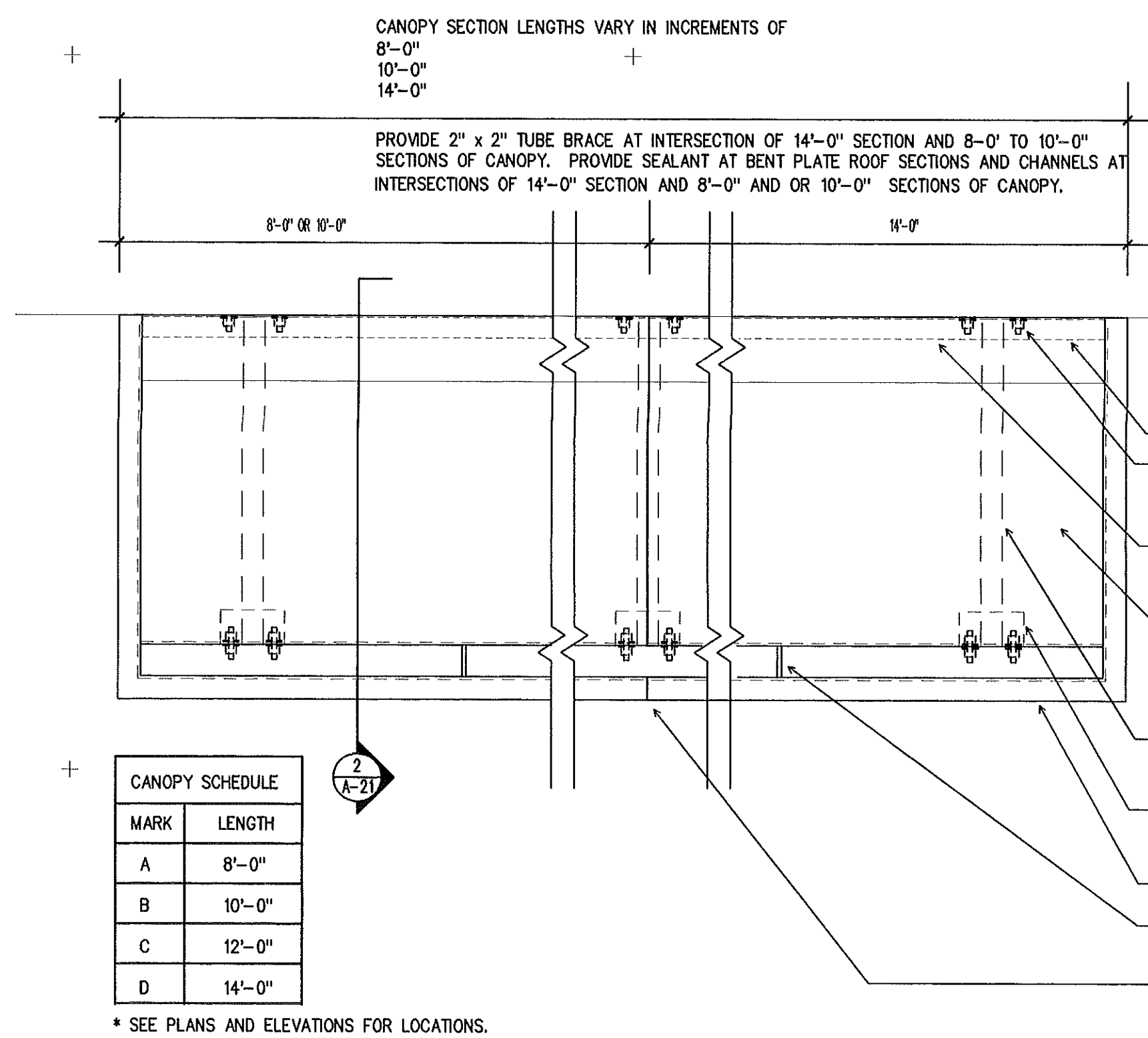
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01/15/98

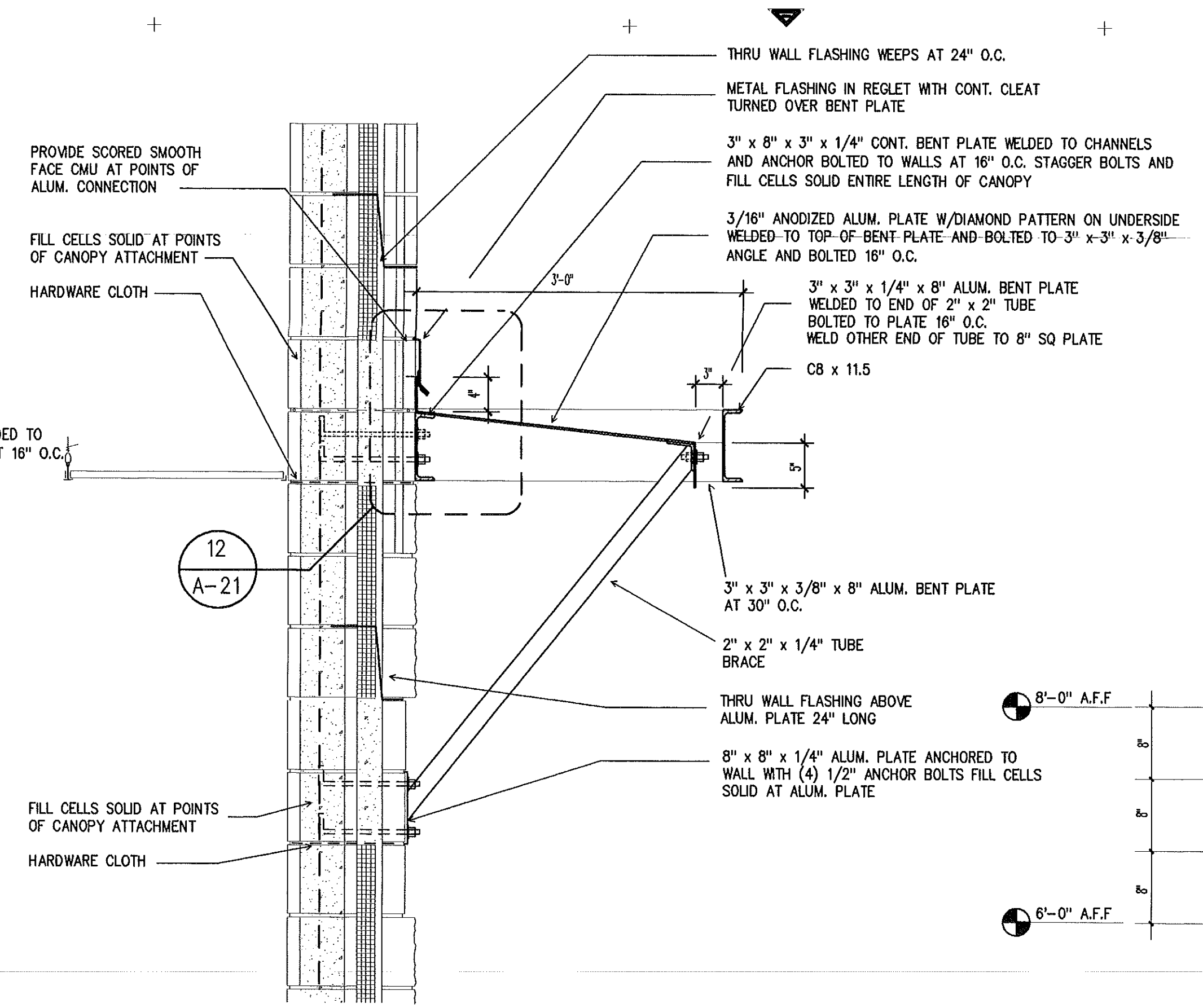
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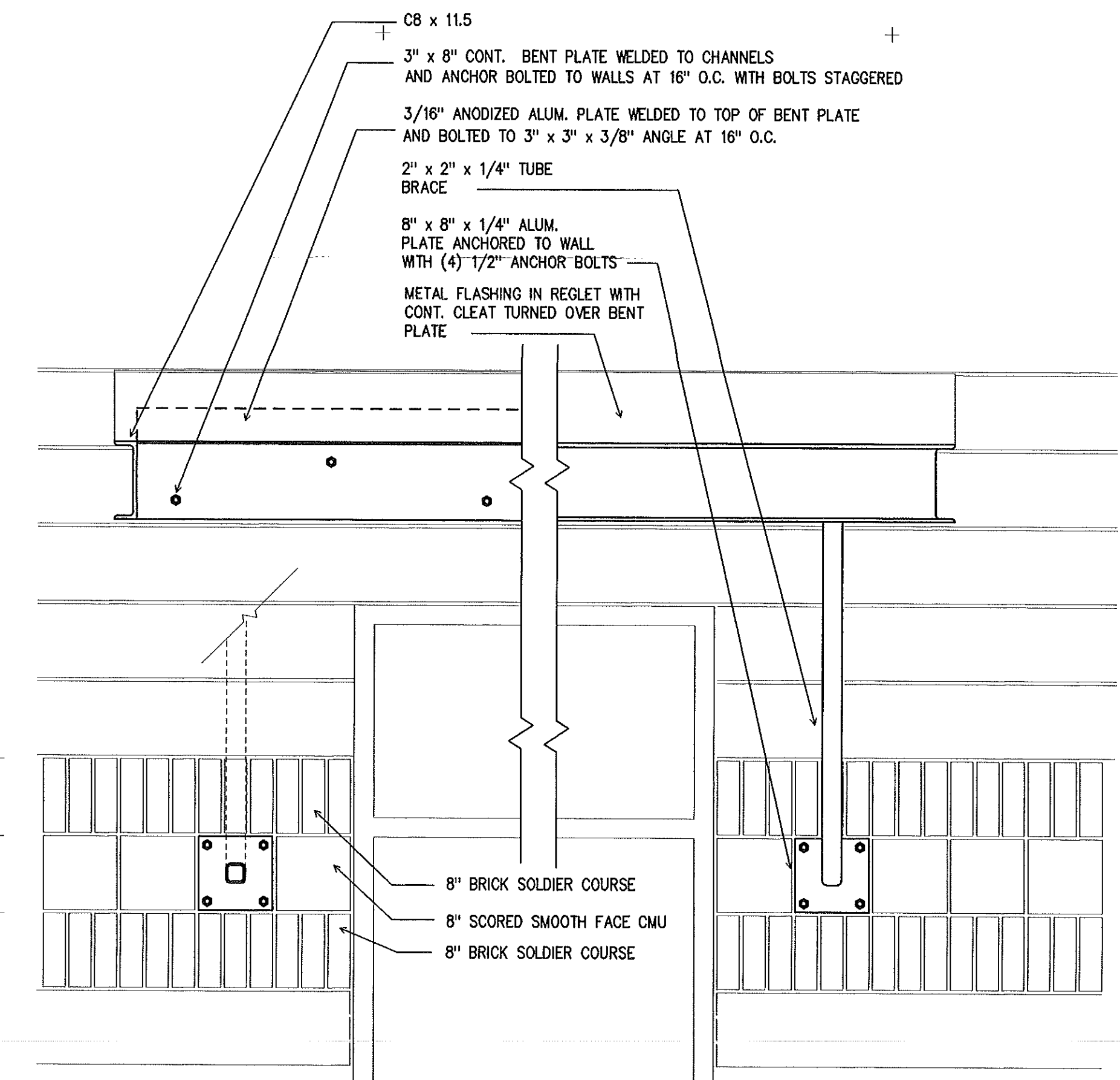
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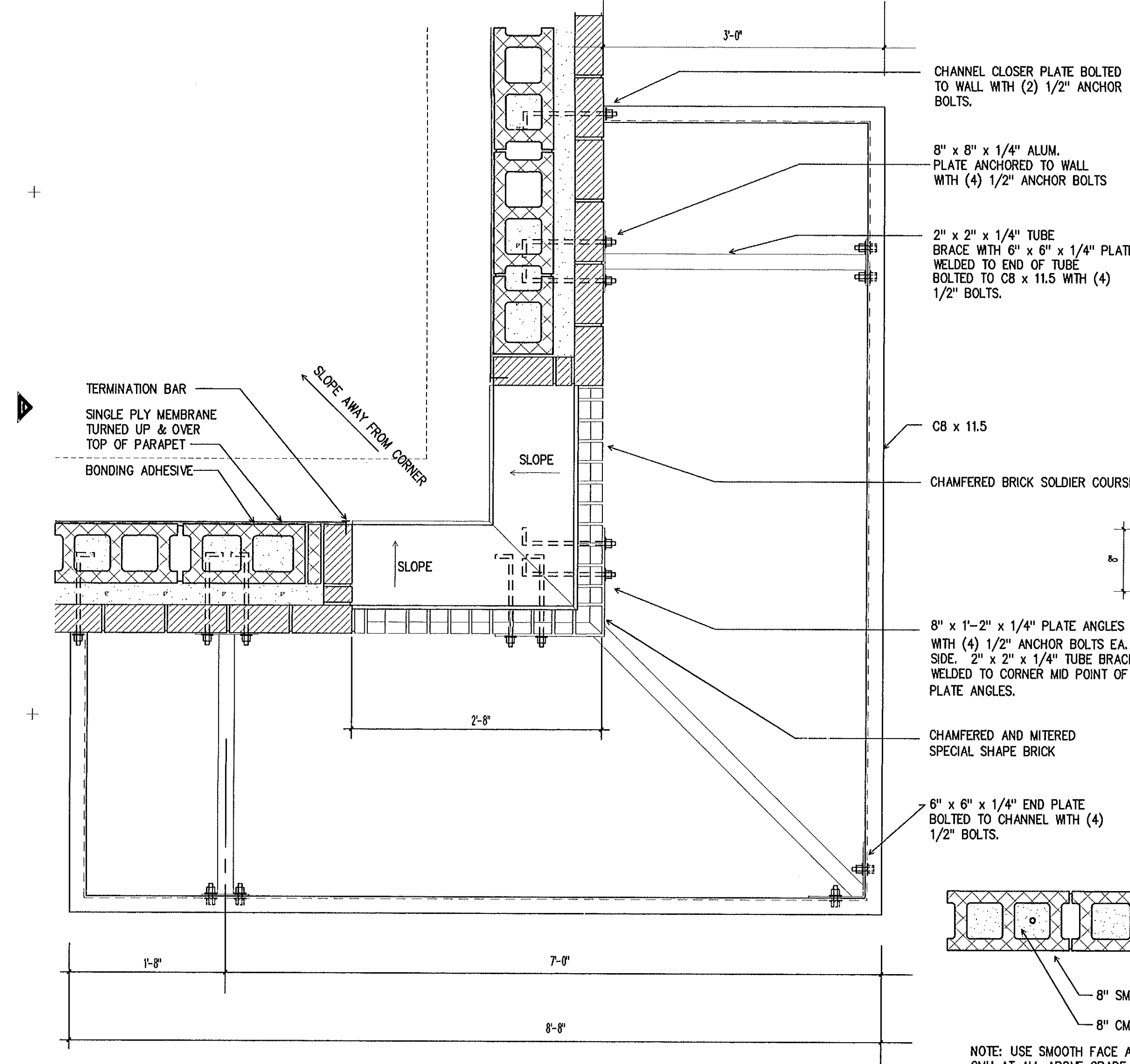
1
A-21
TYPICAL ALUM. CANOPY DETAIL PLAN
1" = 1'-0"



2
A-21
TYPICAL STEEL
CANOPY DETAIL
SECTION
1" = 1'-0"



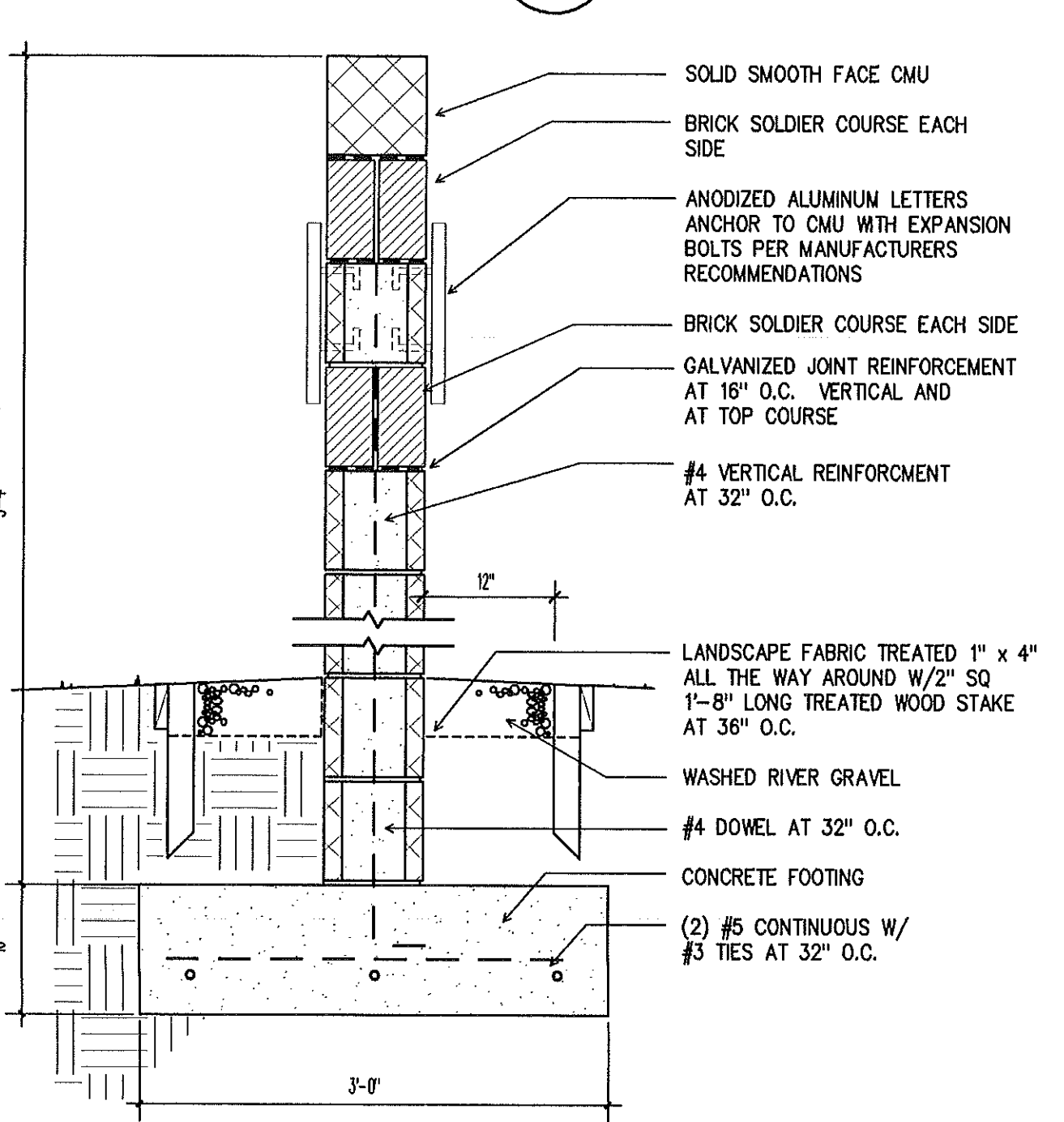
3
A-21
TYPICAL CANOPY AND
MASONRY BANDING ELEVATION
1" = 1'-0"



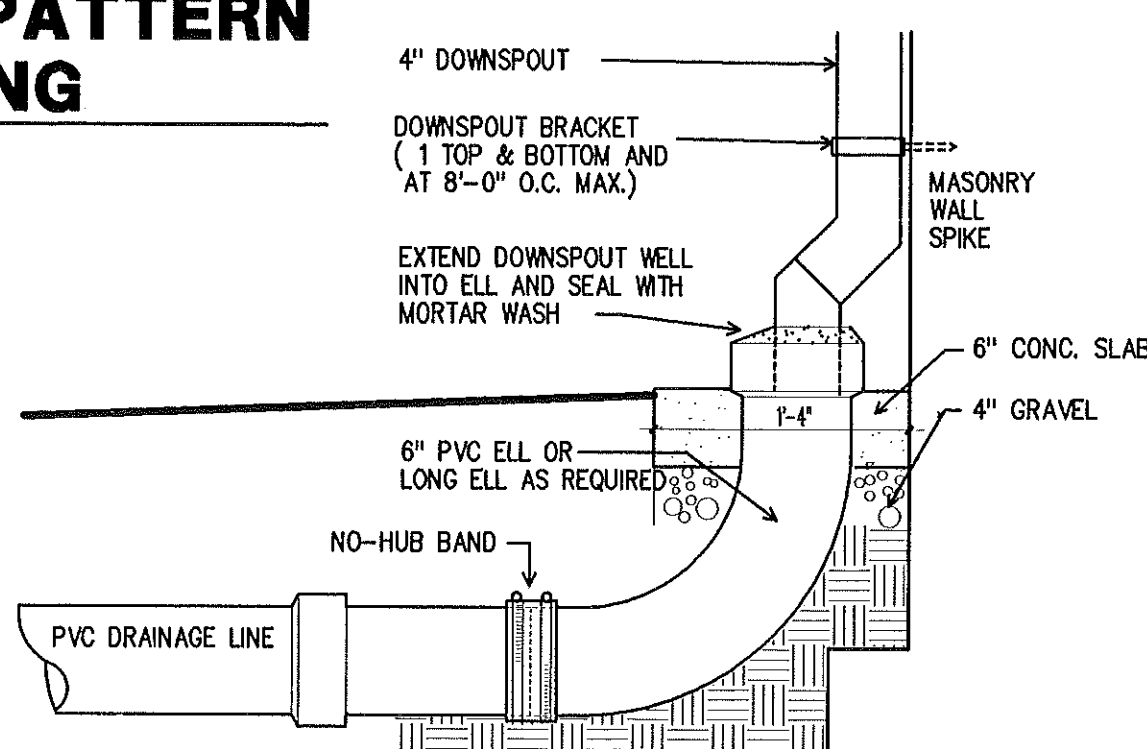
4
A-21
DETAIL AT BRICK OPENING
1" = 1'-0"

ELEVATION/SECTION

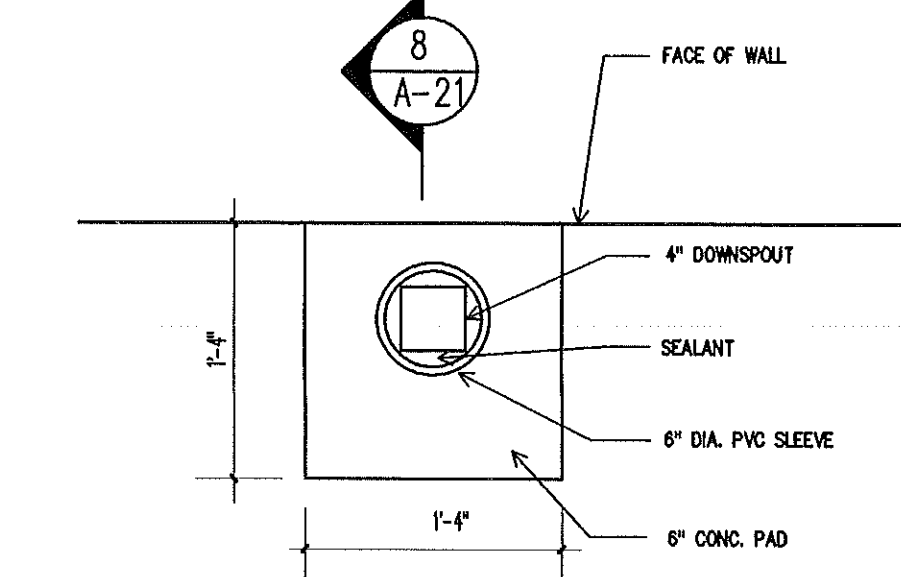
5
A-21
TYPICAL BRICK PATTERN
AT BRICK OPENING
1" = 1'-0"



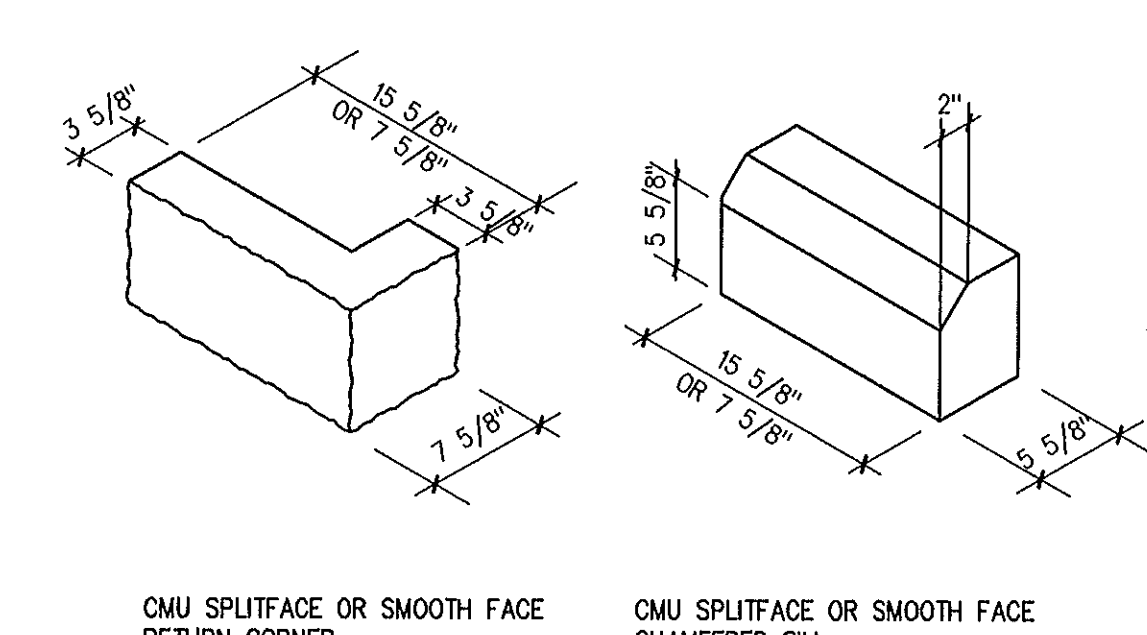
7A
A-21
SIGN SECTION
1" = 1'-0"



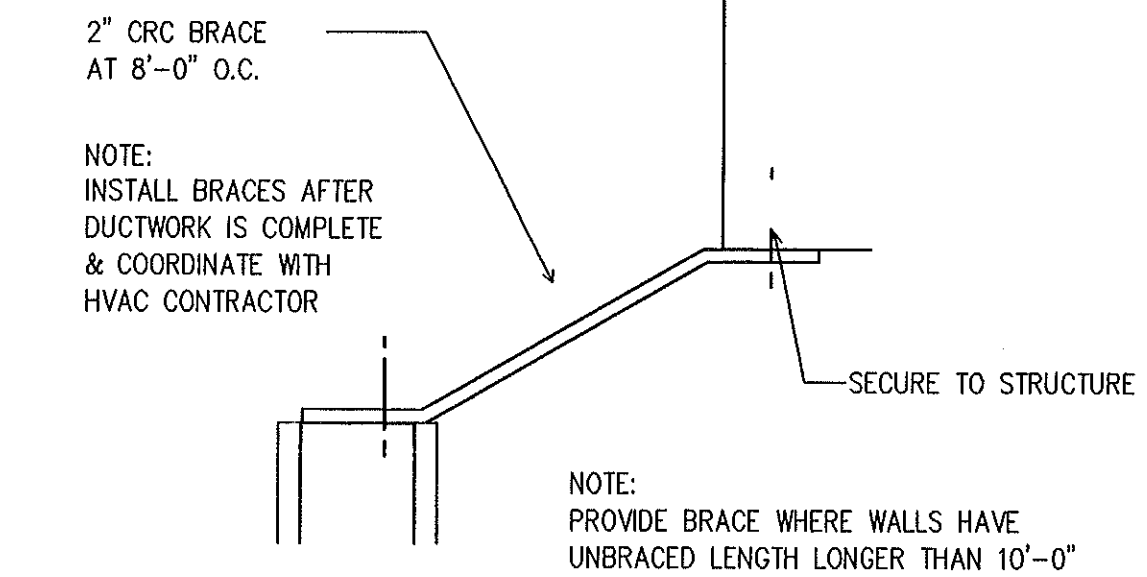
8
A-21
TYPICAL DOWNSPOUT BOOT
1" = 1'-0"



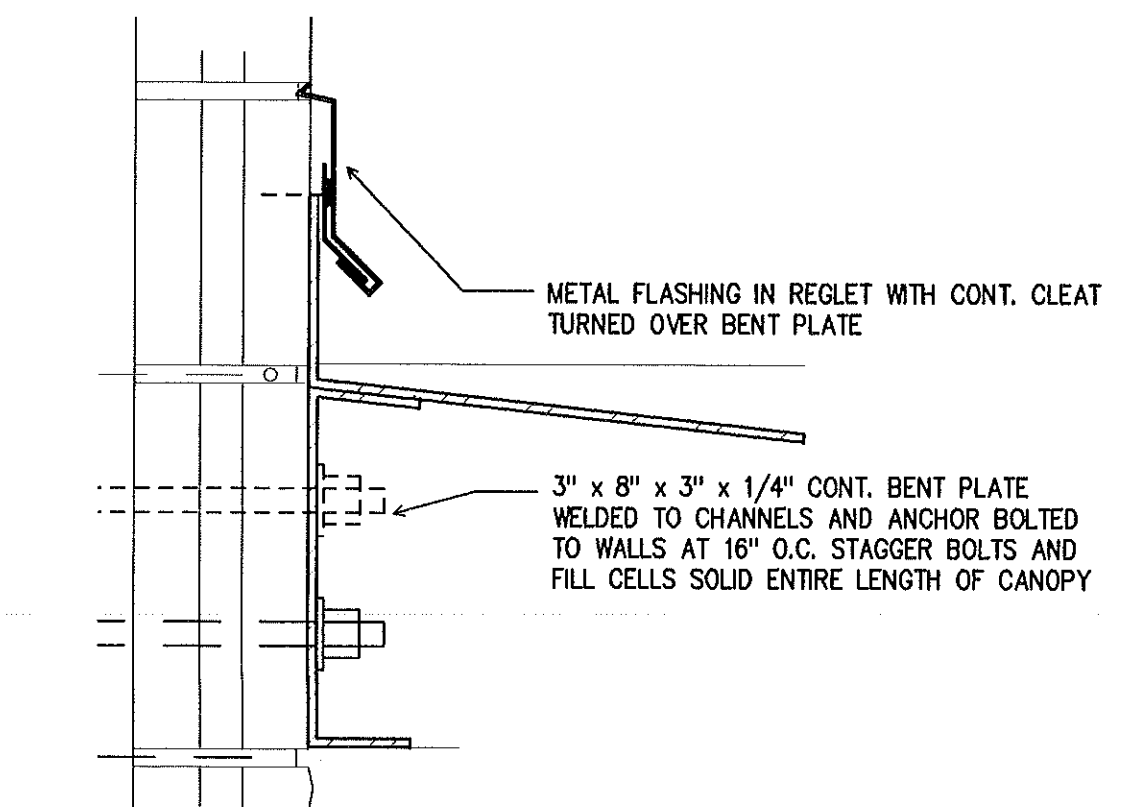
9
A-21
TYP. DOWNSPOUT PAD
1" = 1'-0"



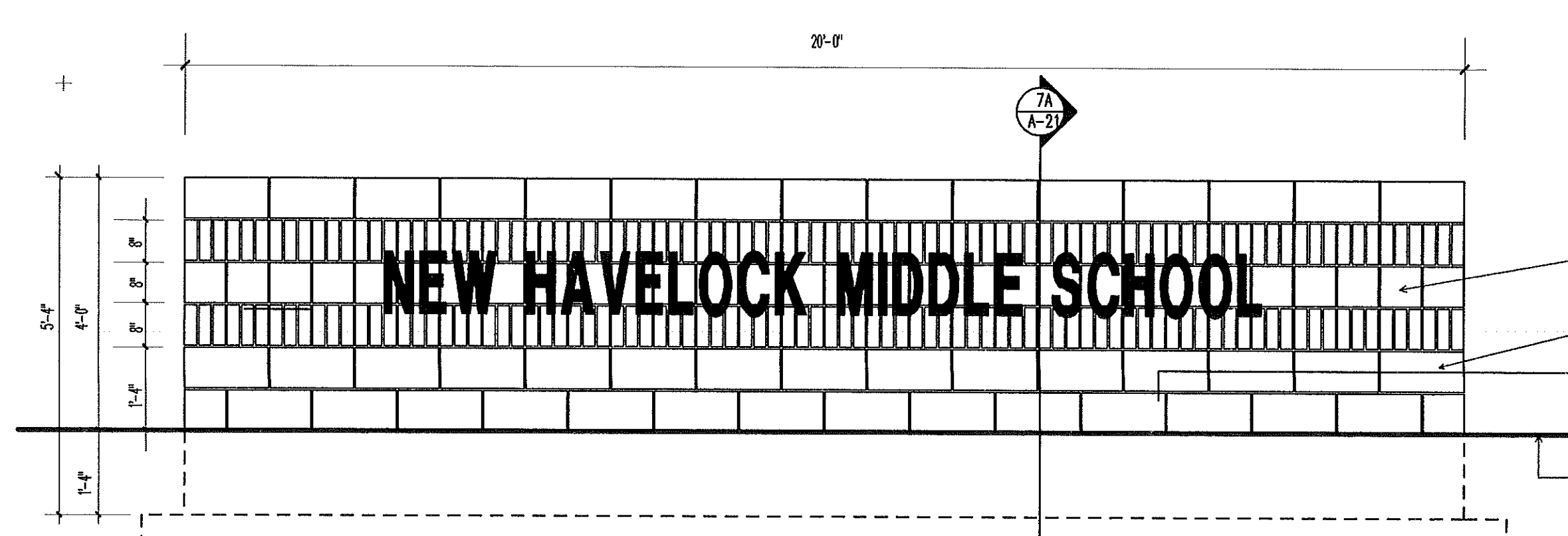
10
A-21
SPECIAL CMU SHAPES
1" = 1'-0" NOTE: SEE ELEVATIONS FOR LOCATIONS



11
A-21
TYPICAL WALL BRACE
NOT TO SCALE



12
A-21
DETAIL
3" = 1'-0"



6
A-21
ENTRY SIGN
1/2" = 1'-0" NOTE: SEE SITE PLAN FOR LOCATION

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PROJECT ARCHITECT: **JFS**
PROJECT ENGINEER: **ACC, LFC, DVC**
DRAWN BY: **RA**
CHECKED BY:

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6-B-98

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Craven County
North Carolina

project title

MISCELLANEOUS DETAILS

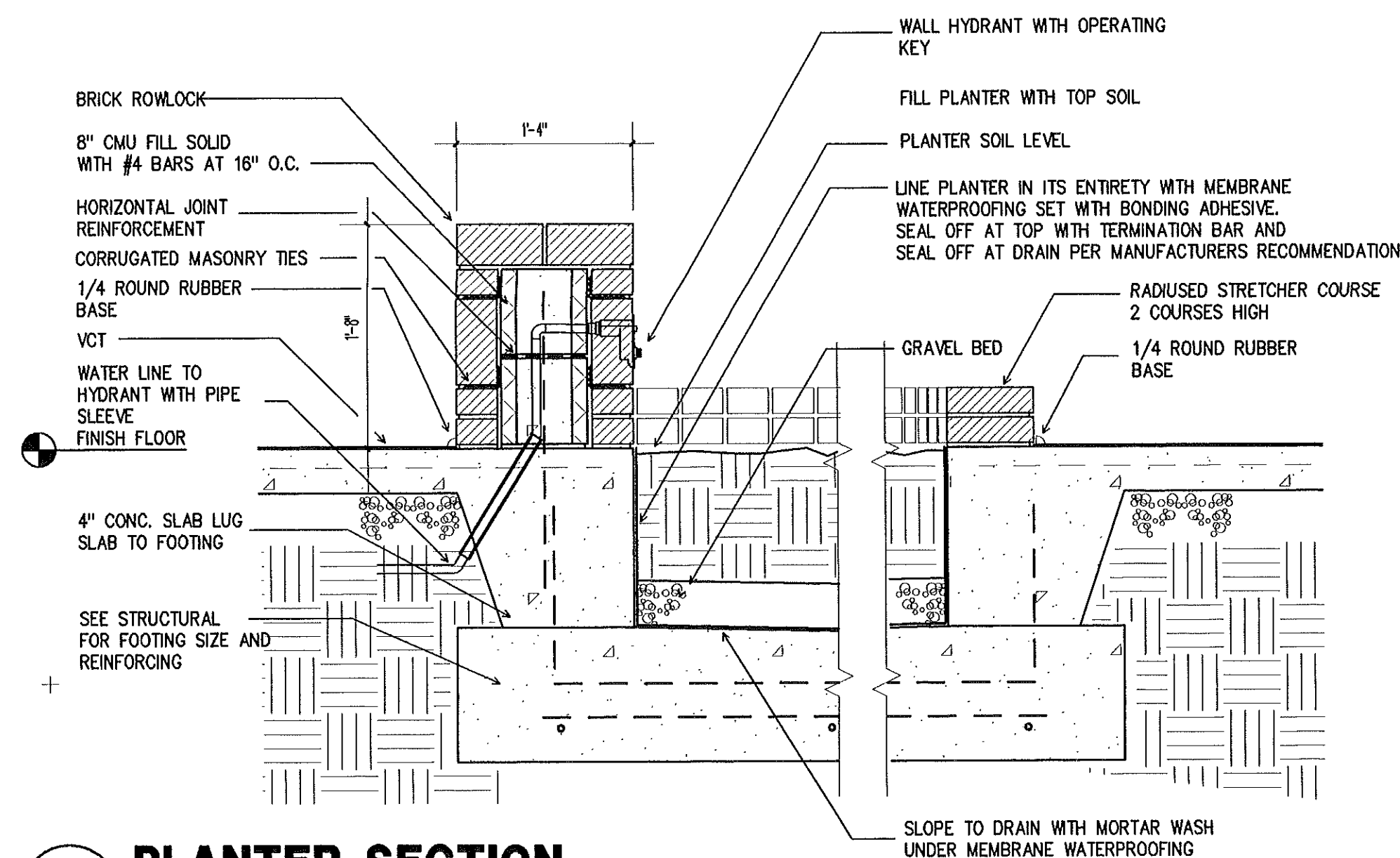
sheet title scale:

F9502.01
project no.

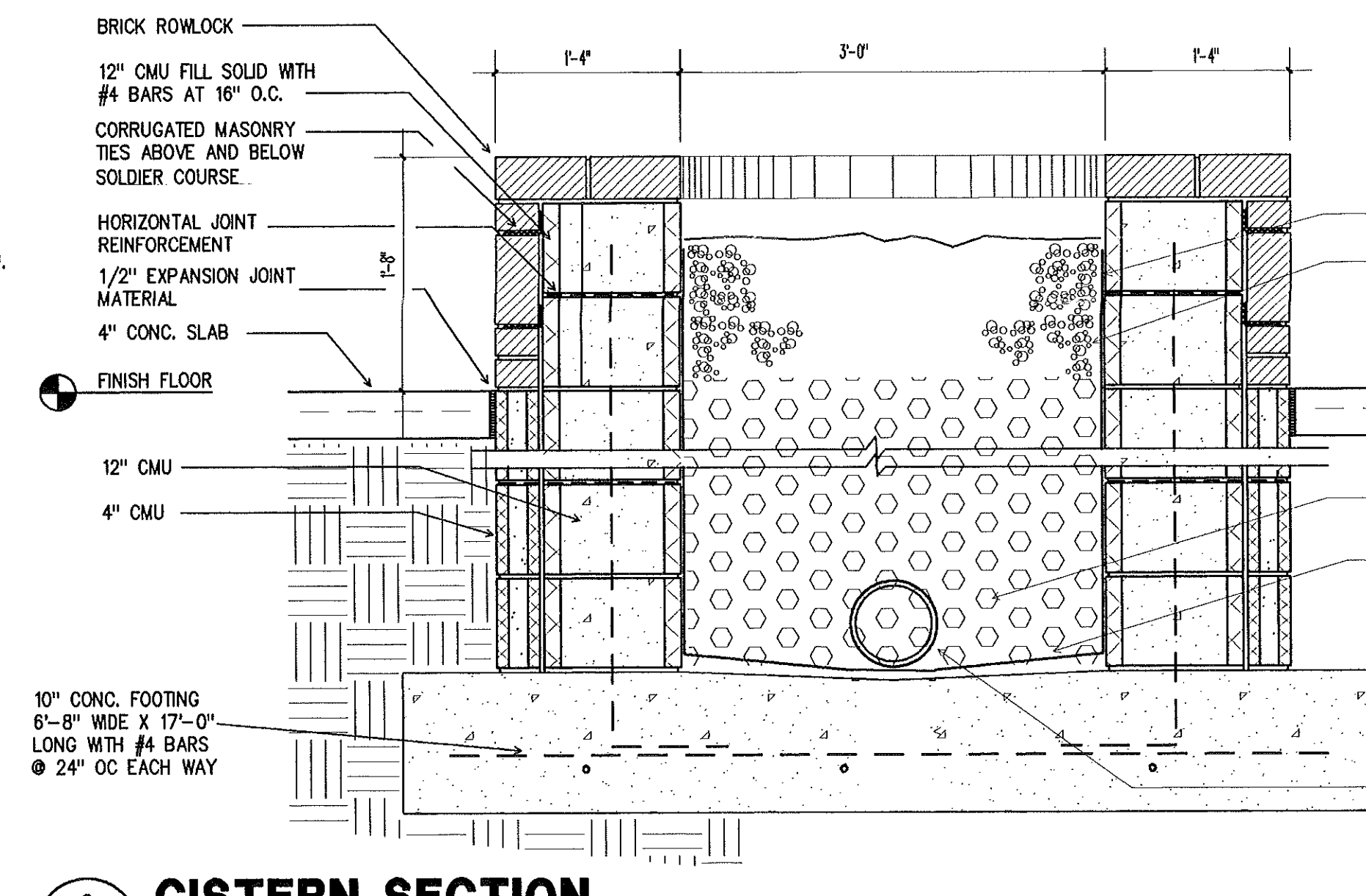
sheet no. **21** of **38**

1/16/98
date

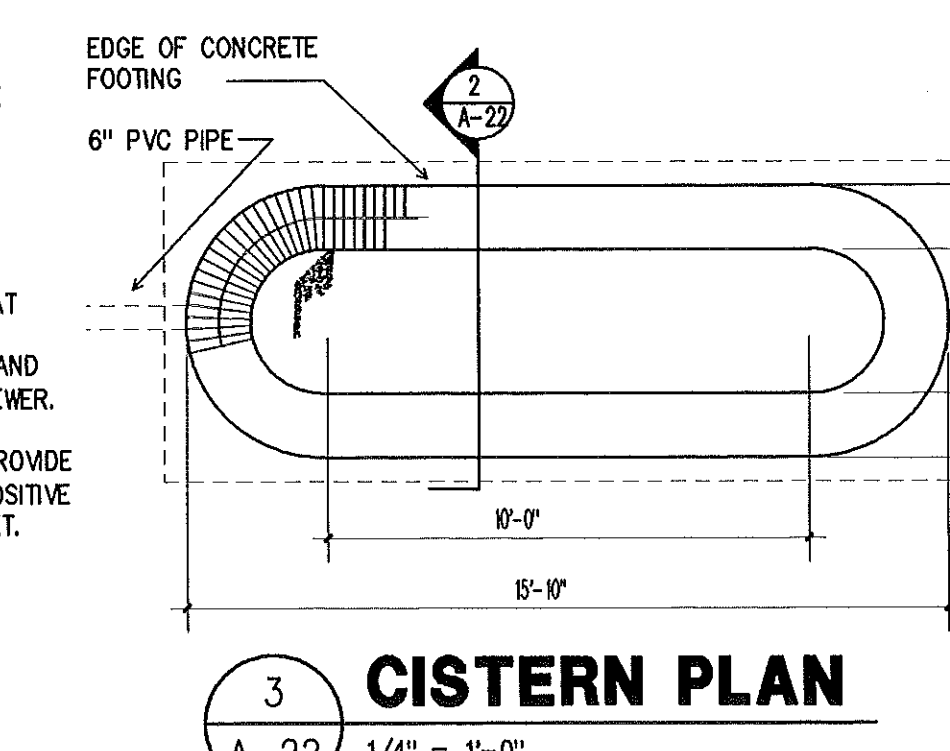
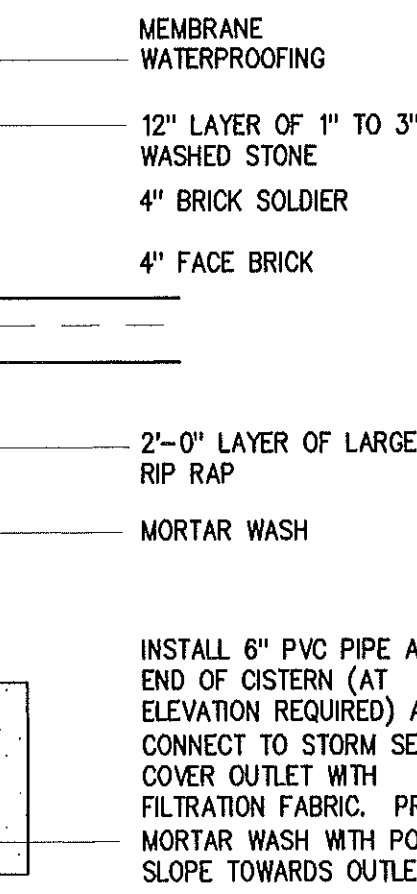
A-21
sheet no.



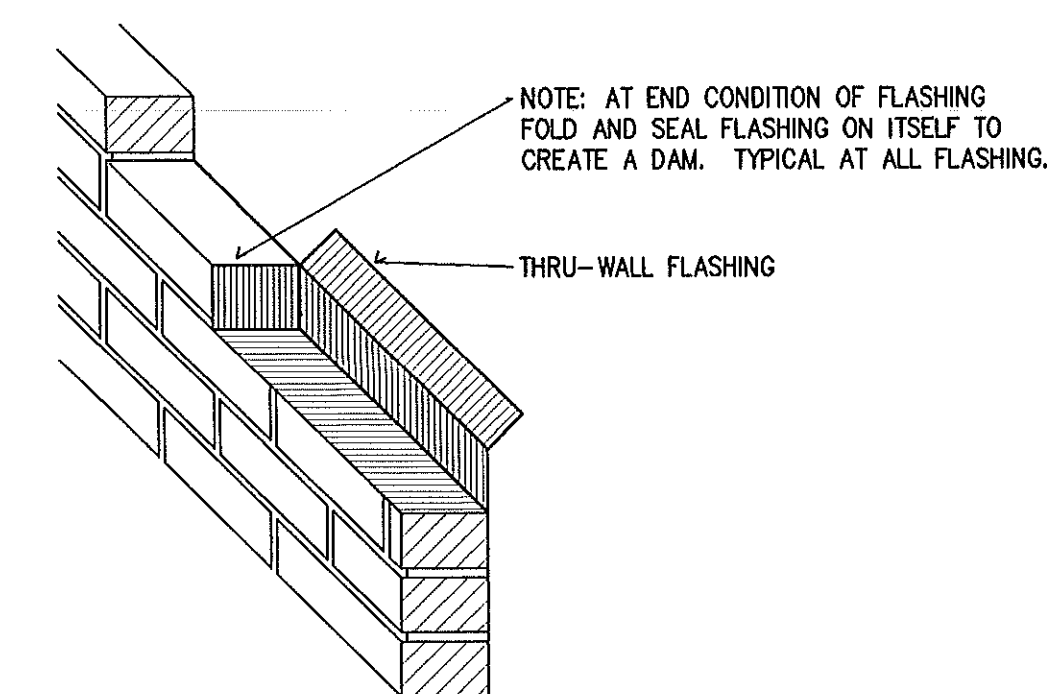
1 PLANTER SECTION
A-22 1" = 1'-0"



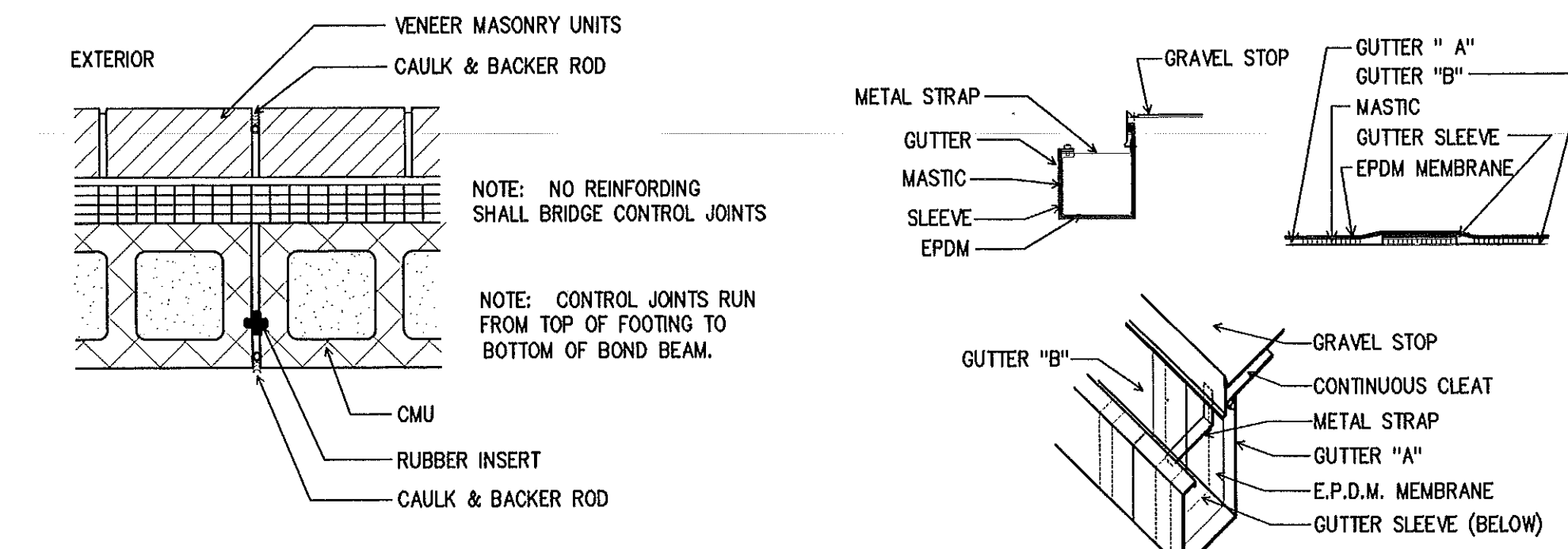
2 CISTERN SECTION
A-22 1" = 1'-0"



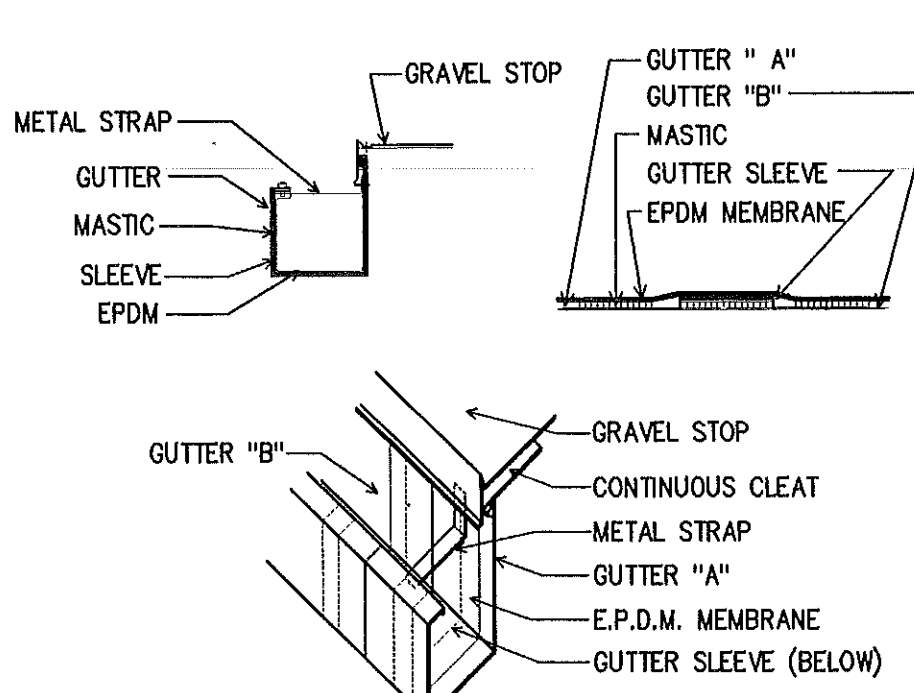
3 CISTERN PLAN
A-22 1/4" = 1'-0"



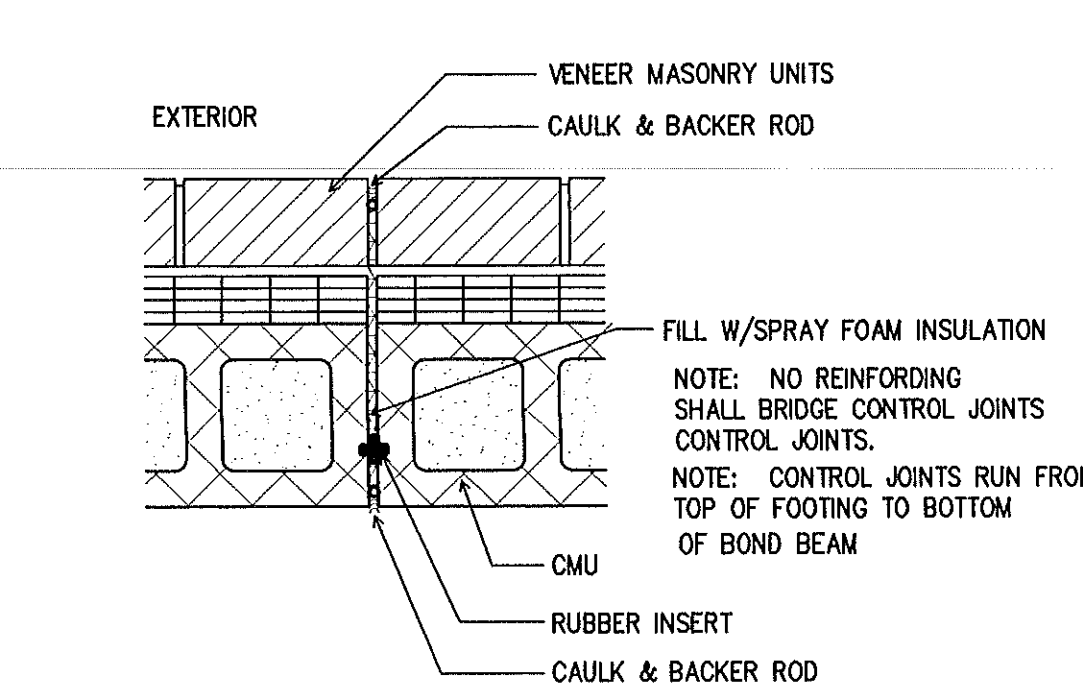
6 TYP. FLASHING DETAIL
A-22 1 1/2" = 1'-0"



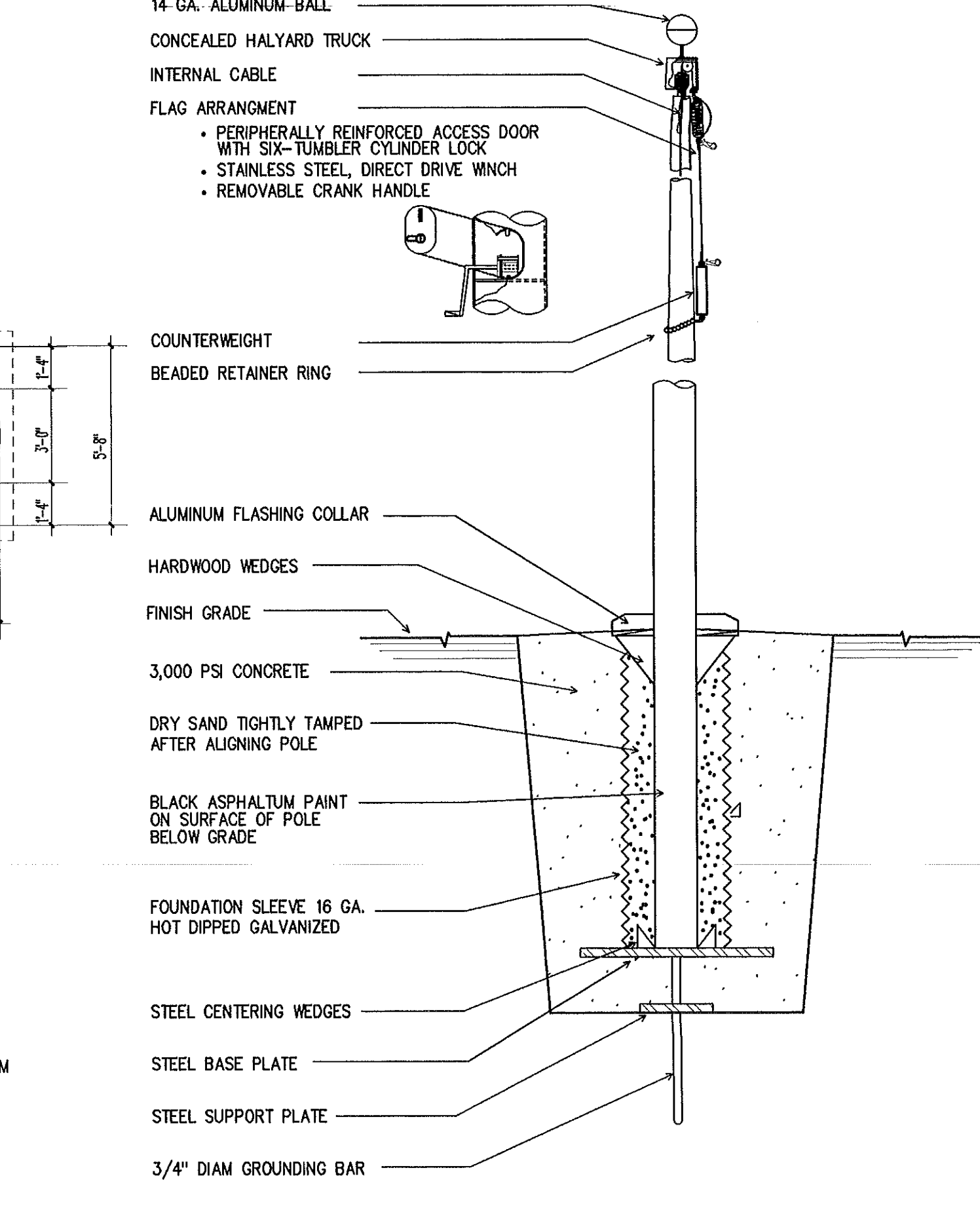
7 CONTROL JOINT AT EXTERIOR WALL
A-22 1 1/2" = 1'-0"



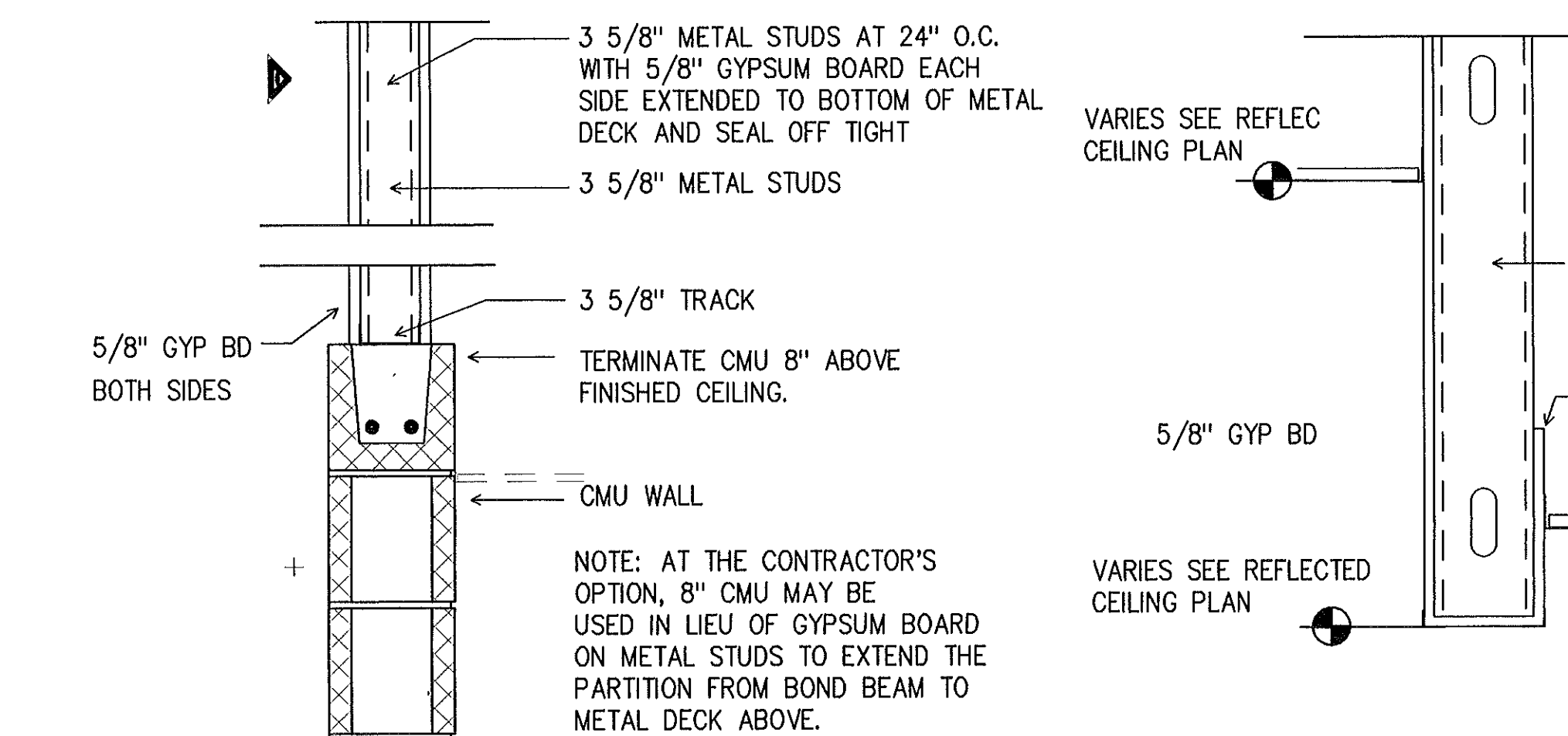
8 GUTTER SPLICE JOINT
A-22 1 1/2" = 1'-0"



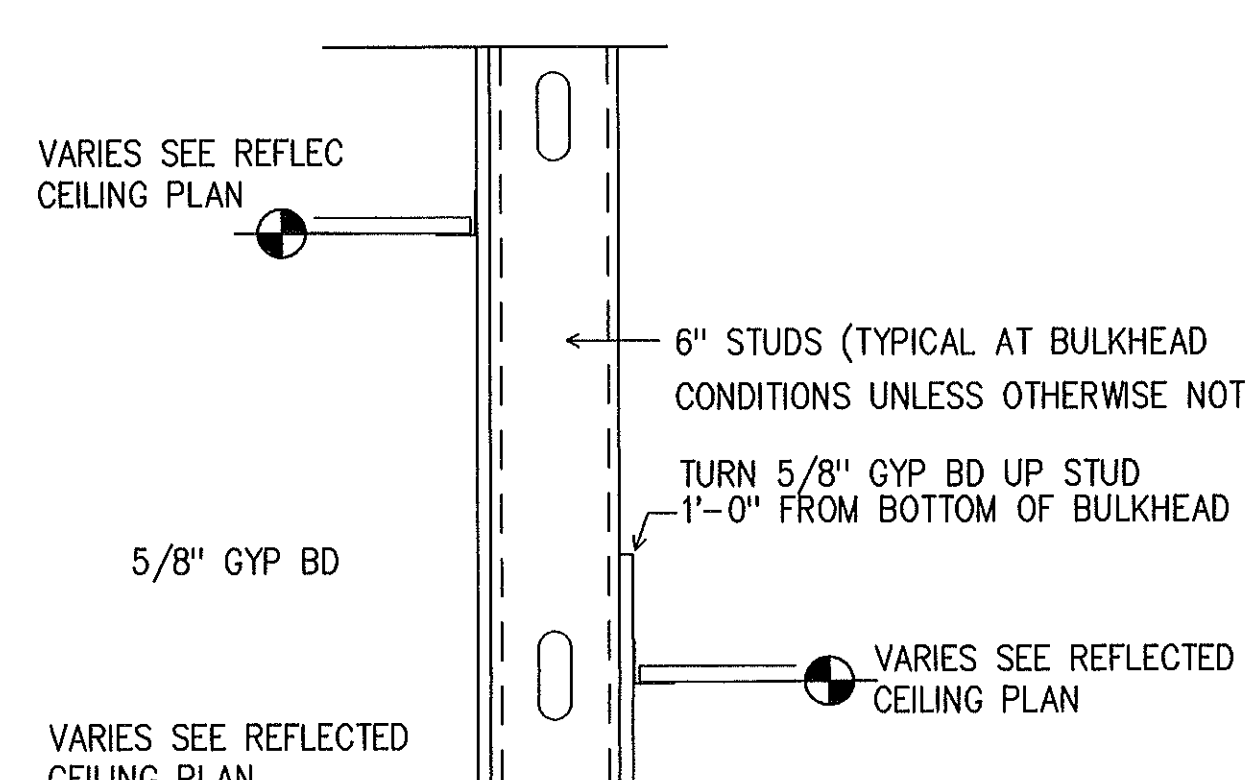
9 EXPANSION JOINT AT EXTERIOR WALL
A-22 1 1/2" = 1'-0"



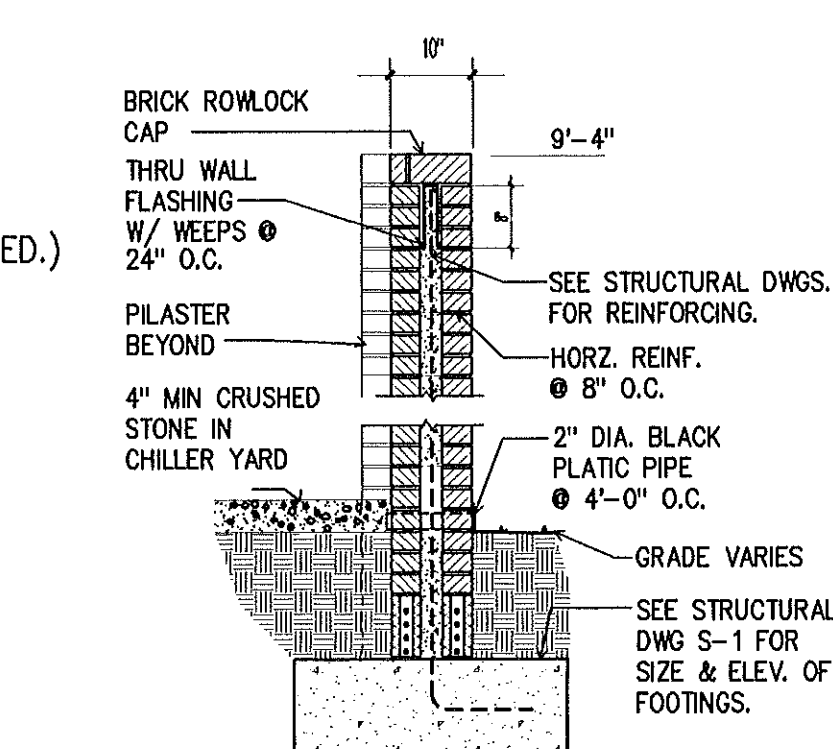
10 FLAG POLE DETAIL
A-22 1" = 1'-0"



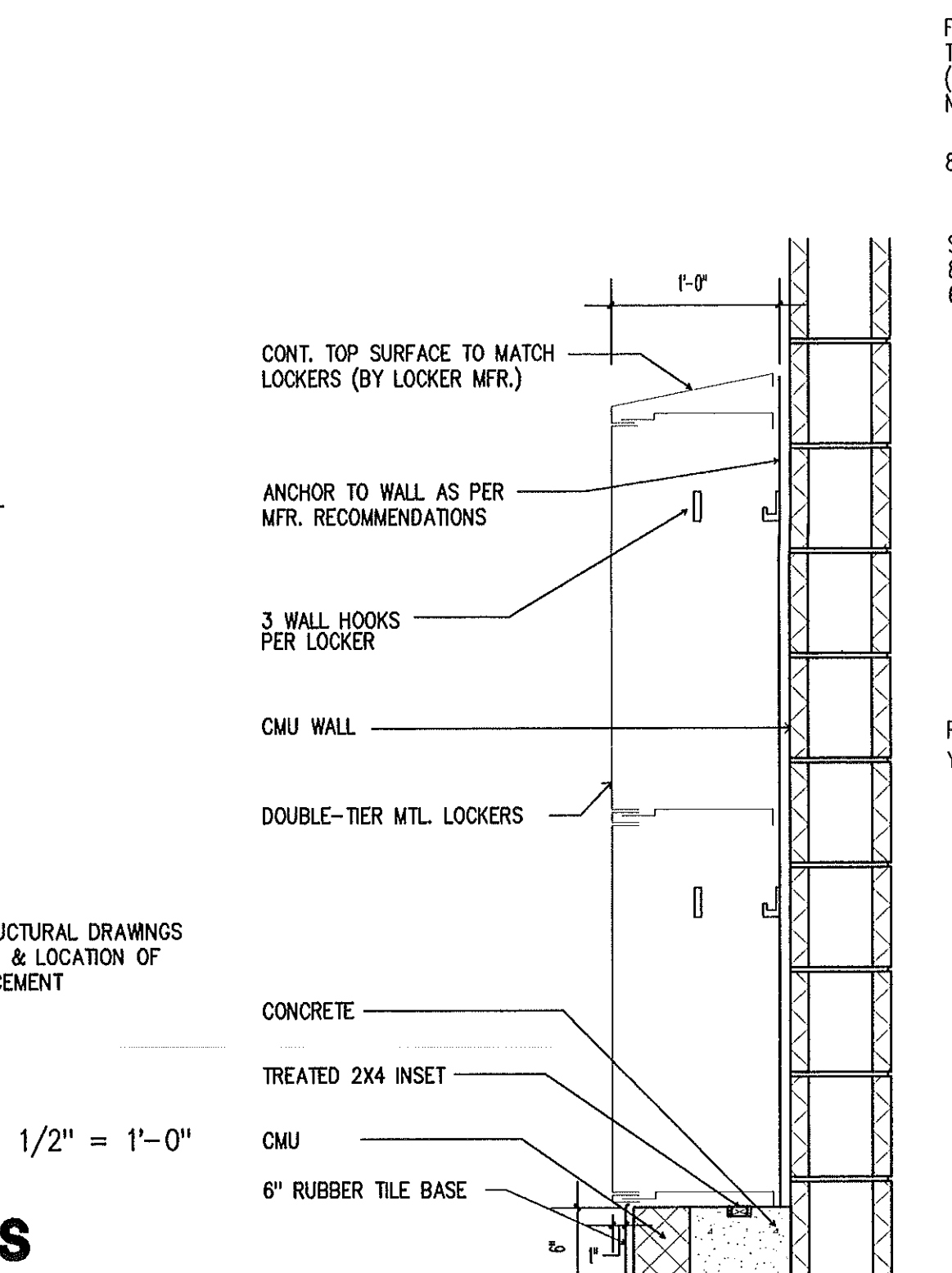
11 PARTIAL WALL SECTION
A-22 1" = 1'-0"



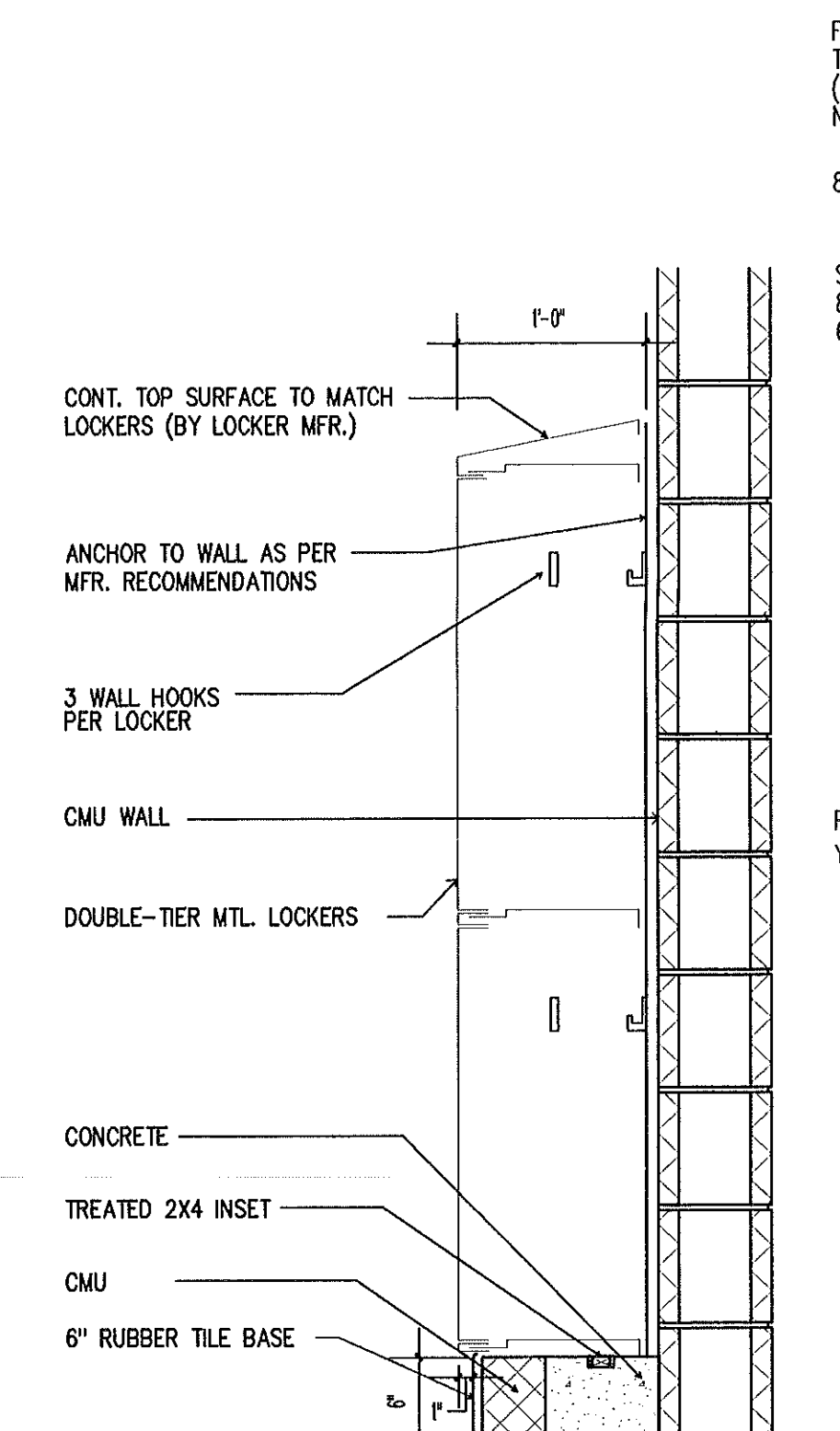
12 BULKHEAD DETAIL
A-22 1" = 1'-0"



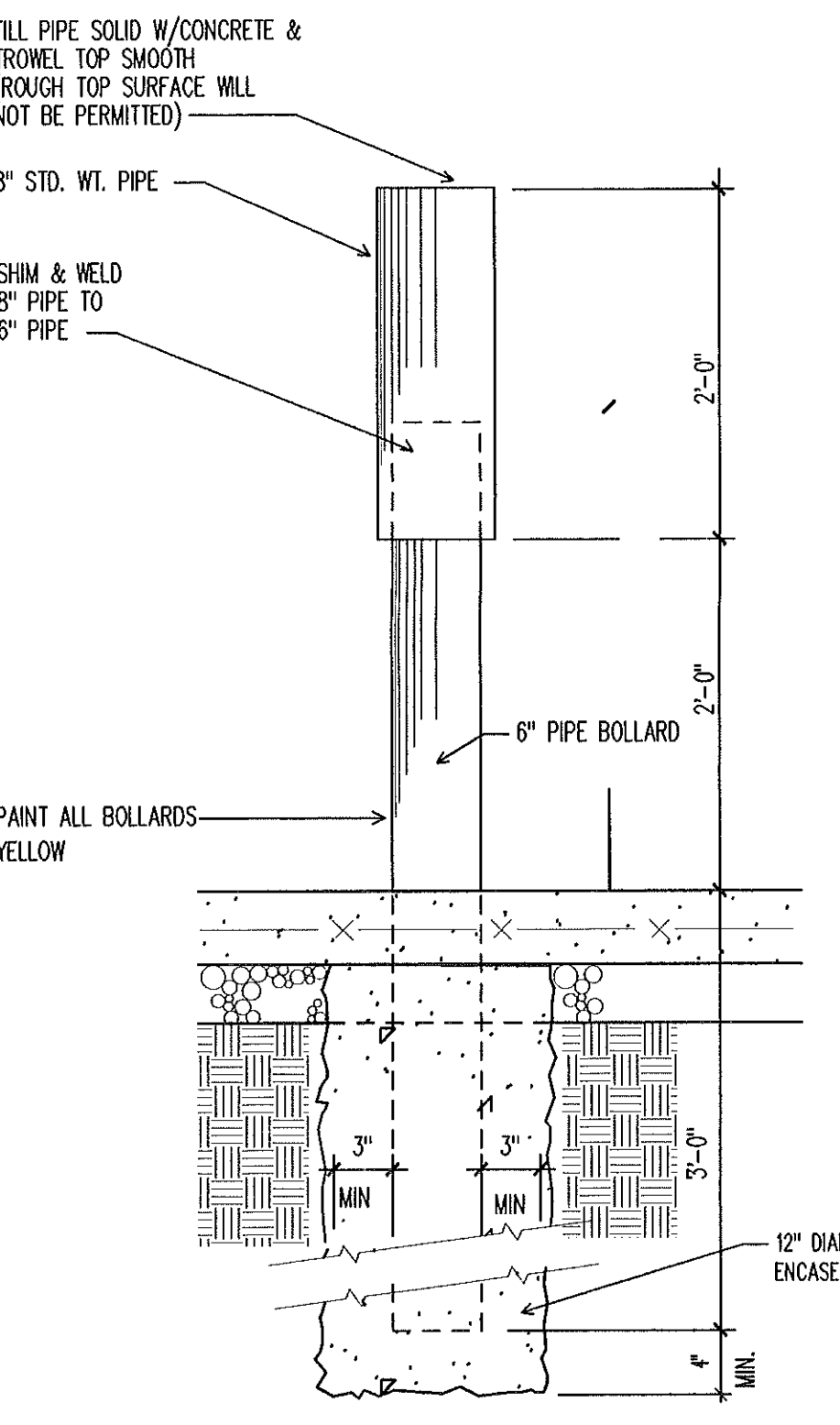
13 SCREEN WALL
A-22 1/2" = 1'-0"



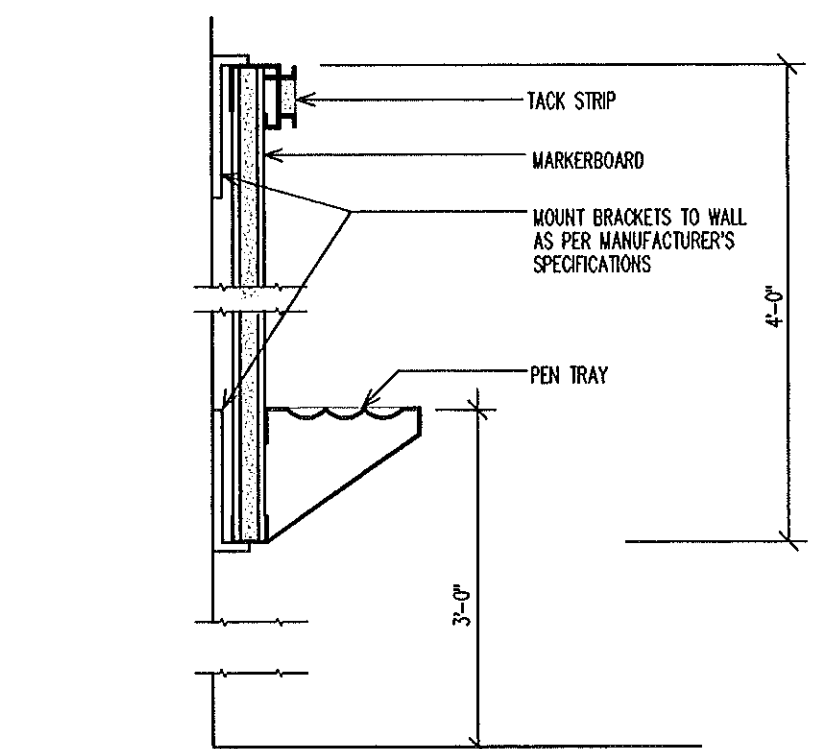
14 SCREEN WALL DETAILS
A-22 AS PER DETAIL



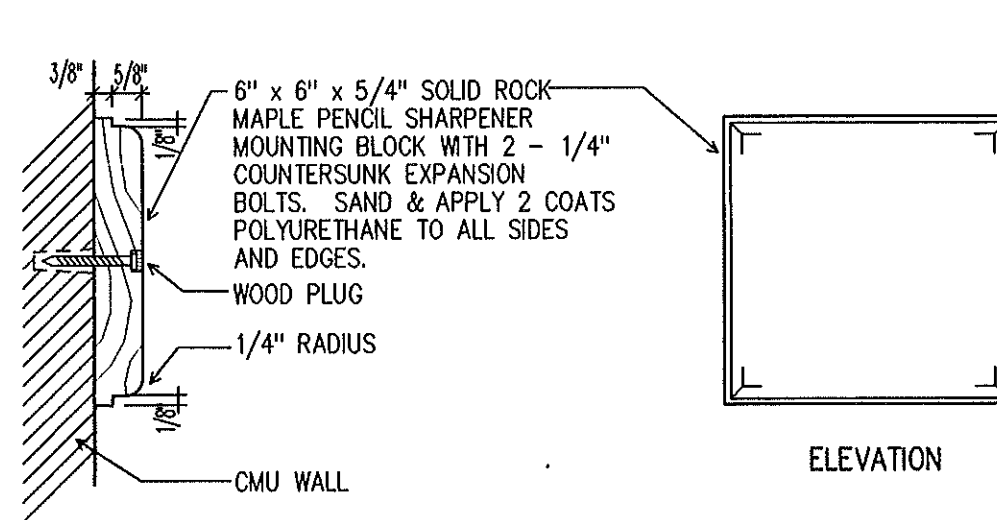
23 SECTION AT LOCKER
A-22 1" = 1'-0"



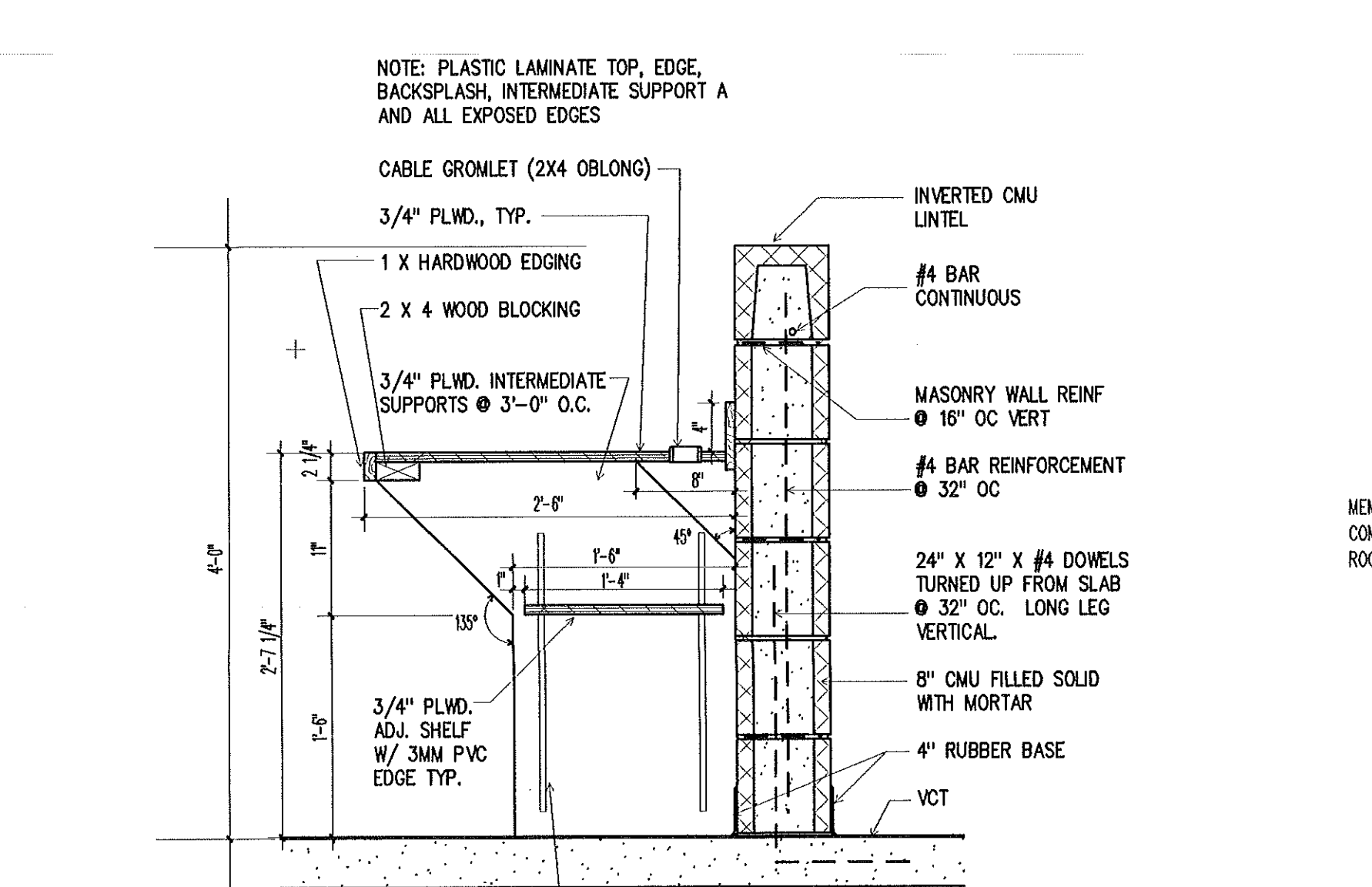
15 BOLLARD DETAIL
A-22 1" = 1'-0"



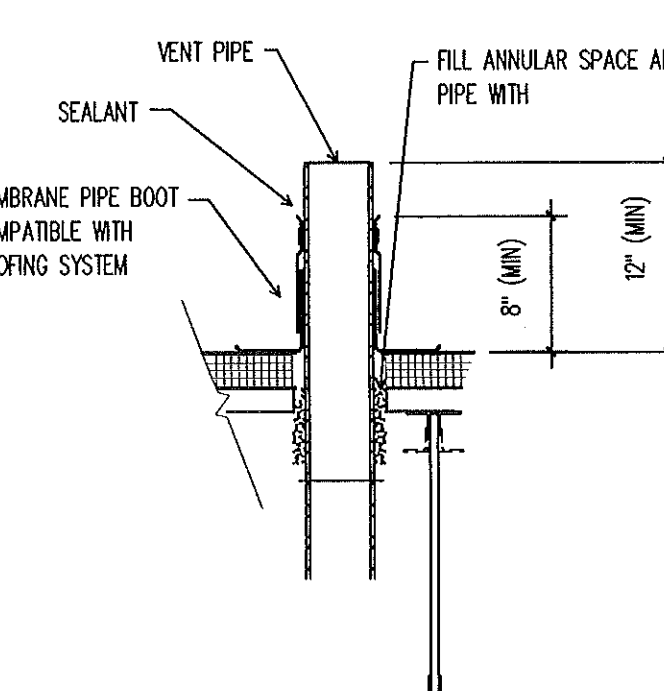
16 MARKERBOARD DETAIL
A-22 3" = 1'-0"



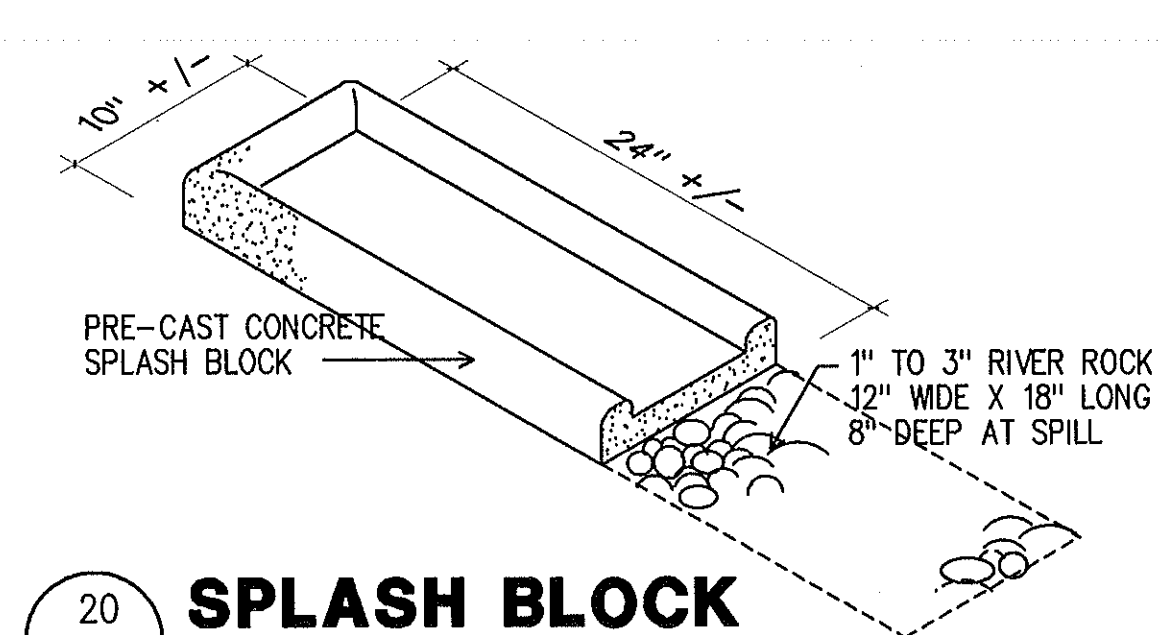
17 PENCIL SHARPENER MOUNTING BLOCK DETAIL
A-22 3" = 1'-0"



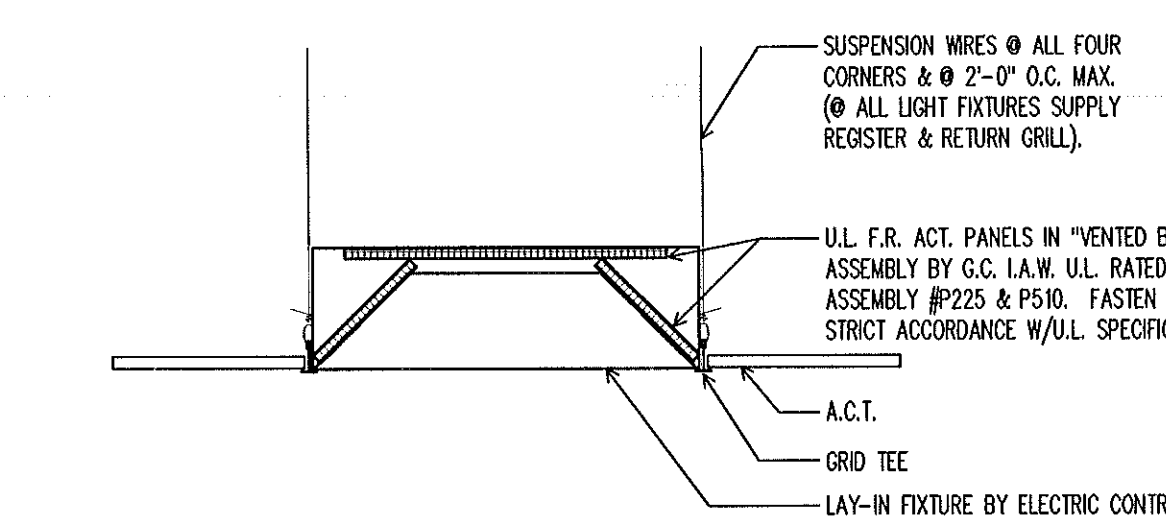
18 SECTION
A-22 1" = 1'-0"



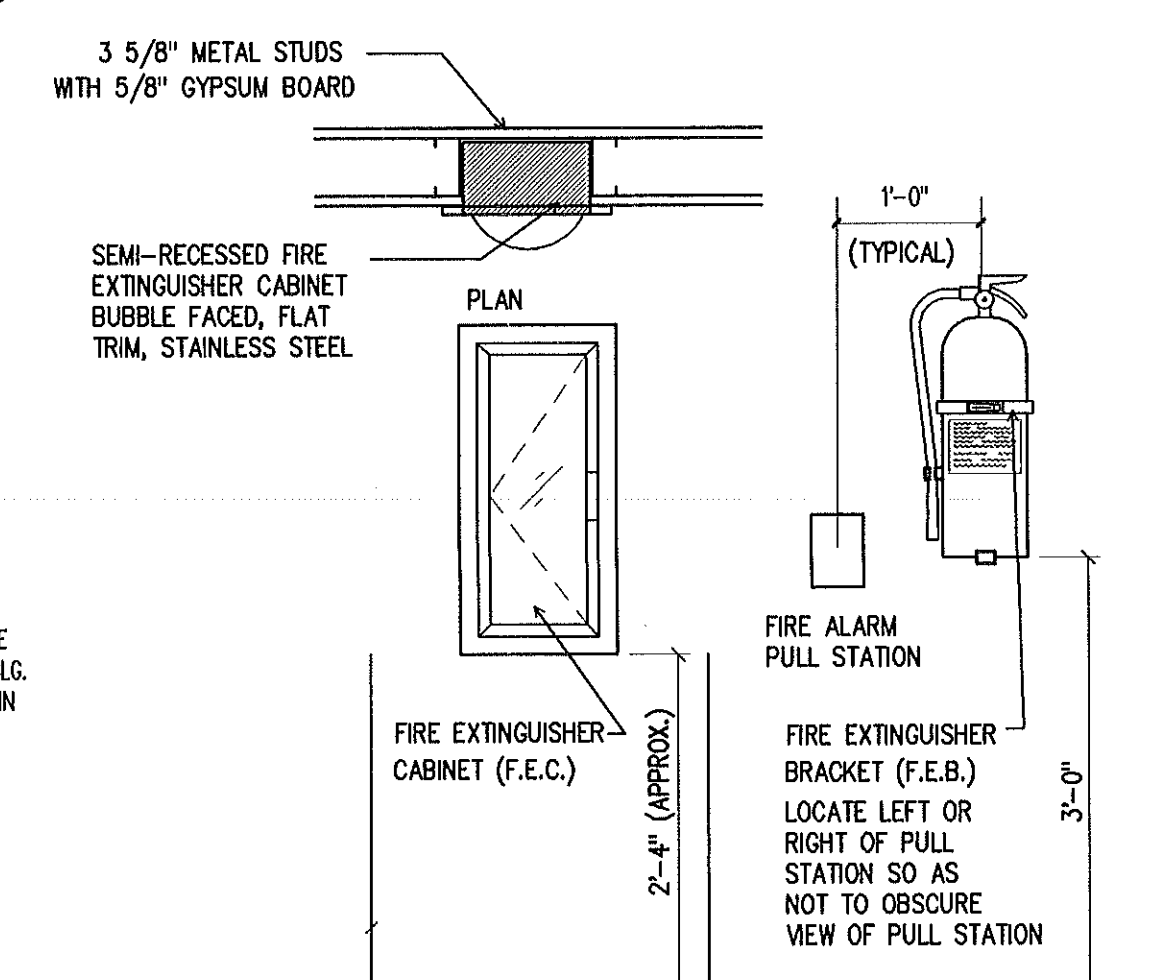
19 VENT PENETRATION
A-22 1" = 1'-0"



20 SPLASH BLOCK
A-22 NO SCALE

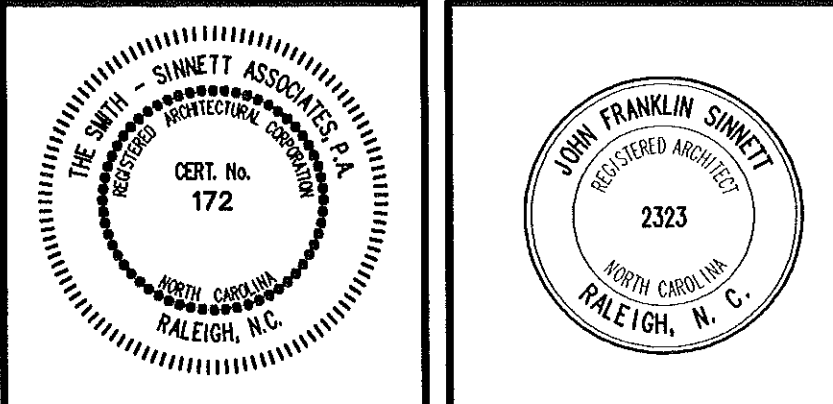


21 TYPICAL CEILING FIXTURE FIREPROOFING
A-22 1" = 1'-0"



22 FIRE EXTINGUISHER
A-22 3/4" = 1'-0"

THE SMITH SINNETT ASSOCIATES, P.A.
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Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **LFC**
drawn by: **RA**
checked by:

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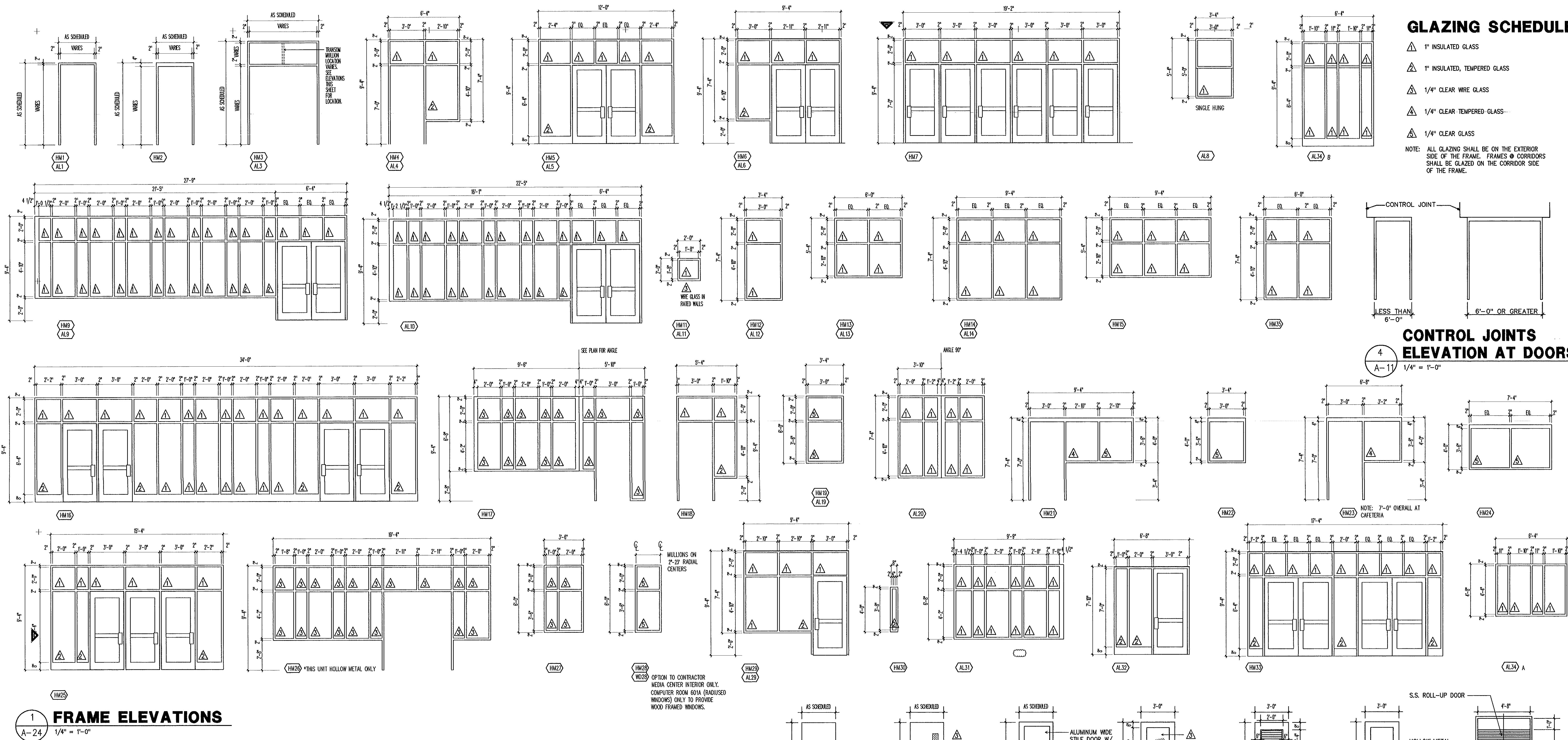
RECORD DRAWINGS		
no.	description	date
6-8-98		

no.	description	date

New Havelock Middle School
Craven County
North Carolina
project title

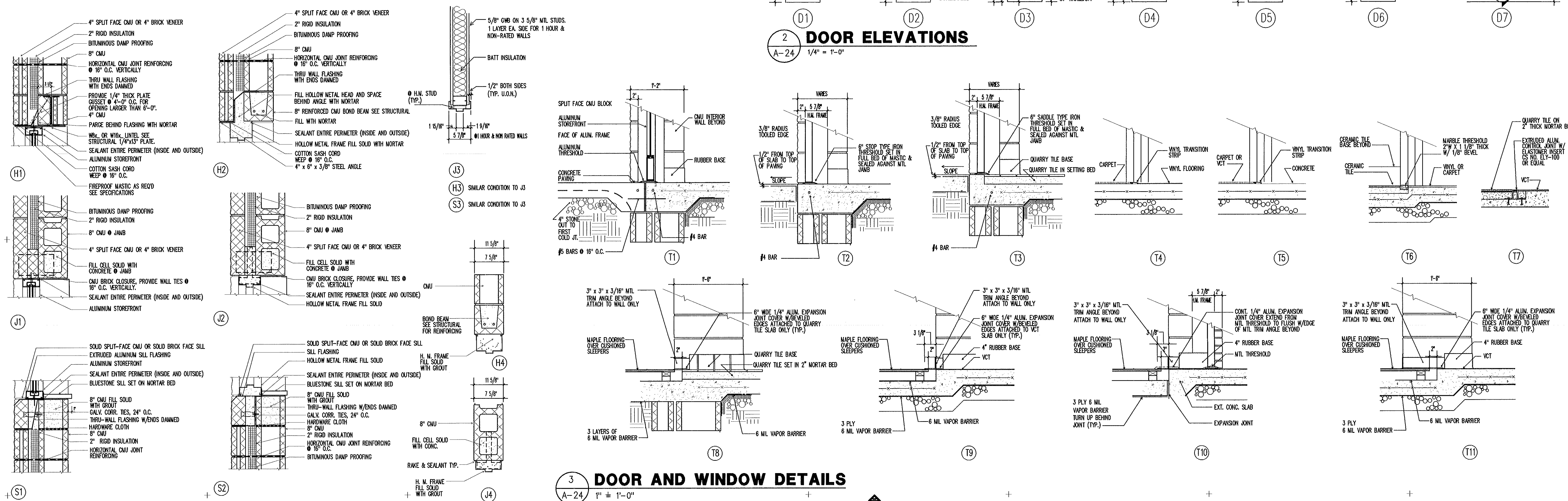
MISCELLANEOUS DETAILS		
sheet title	scale:	
F9502.01	project no.	sheet no. 22 of 38
01/15/98	date	sheet no. A-22

DOOR SCHEDULE																			
DOOR		FRAME										DETAILS			UL		HARDWARE		REMARKS
MARK	SIZE	MATL	FN	ELEV	MATL	FN	ELEV	JAMB	HEAD	SILL	THRESHOLD								
ADMINISTRATION 100																			
100	3'-0"x7'-0"x1 3/4"	ALUM	ANOD	D3	ALUM	ANOD	AL7	J1	H1	---	T1	-	1	-					
101	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J4	H4	---	T2	-	20	2	1				
102	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J4	H3	---	T4	-	3	1					
103	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J4	H4	---	T6	-	5	2					
104	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J4	H4	---	T6	-	20	4	2				
105	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	8	1				
106	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J3	H3	---	T6	-	7	-					
107	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J3	H3	---	T6	-	20	7	1				
108	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM4	J2	H2	---	T2	-	8	-					
109	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J3	H3	---	T4	-	20	7	1				
110	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J3	H3	---	T6	-	20	7	1				
111	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM1	J3	H3	---	T6	-	20	7	1				
112	3'-0"x7'-0"x1 3/4"	HM	PT	D3	HM	PT	HM17	J3	H3	---	T4	-	20	9	-				
113	3'-0"x7'-0"x1 3/4"	HM	PT	D3	HM	PT	HM13	J3	H3	---	T4	-	20	9	-				
114	3'-0"x7'-0"x1 3/4"	HM	PT	D2	HM	PT	HM1	J3	H3	---	T4	-	20	10	-				
115	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T4	-	20	3	1				
116	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T4	-	20	3	1				
117	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T6	-	20	12	1				
118	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM4	J3	H3	---	T4	-	20	3	1				
119	PR 3'-0"x7'-0"x1 3/4"	HM	PT	D1	HM	PT	HM2	J2	H2	---	T2	-	11	2	10				
120	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM18	J2	H2	---	T4	-	8	-					
121	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
122	PR 3'-0"x7'-0"x1 3/4"	HM	PT	D1	HM	PT	HM2	J2	H2	---	T2	-	13	2					
123	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
124	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
125	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
126	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
127	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM4	J4	H4	---	T6	-	20	3	1				
128	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM3	J4	H4	---	T4	-	3	-					
129	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
130	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
131	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
132	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
133	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
134	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
135	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM1	J3	H3	---	T6	-	20	3	1				
136	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T6	-	20	3	1				
137	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T6	-	20	3	1				
138	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T6	-	20	3	1				
139	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T6	-	20	3	1				
140	3'-0"x7'-0"x1 3/4"	AL	ANOD	D3	AL	ANOD	AL29	J1	H1	---	T1	-	3	-					
141	3'-0"x7'-0"x1 3/4"	AL	ANOD	D3	AL	ANOD	AL29	J1	H1	---	T1	-	3	-					
COMMONS 126																			
129	3'-0"x7'-0"x1 3/4"	ALUM	ANOD	D3	ALUM	ANOD	AL1	J1	H1	---	T1	-	14	-					
130	3'-0"x7'-0"x1 3/4"	ALUM	ANOD	D3	ALUM	ANOD	AL1	J1	H1	---	T1	-	14	-					
131	3'-0"x7'-0"x1 3/4"	ALUM	ANOD	D3	ALUM	ANOD	AL1	J1	H1	---	T1	-	14	-					
132	3'-0"x7'-0"x1 3/4"	ALUM	ANOD	D3	ALUM	ANOD	AL1	J1	H1	---	T1	-	14	-					
CLASSROOM WING 200																			
200	PR 3'-0"x7'-0"x1 3/4"	HM	PT	D2	HM	PT	HM2	J4	H4	---	T2	-	20	15	1				
201	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	18	2					
202	PR 3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J2	H2	---	T2	-	20	17	1				
203	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
204	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	19	-					
205	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	19	-					
206	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	16	2					
207	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
208	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
209	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
210	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
211	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T4	-	20	20	1				
212	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
213	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	21	1				
214	PR 3'-0"x7'-0"x1 3/4"	HM	PT	D1	HM	PT	HM2	J2	H2	---	T2	-	13	-					
215	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
216	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
217	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T2	-	20	20					
218	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T2	-	20	20					
219	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
220	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	1					
221	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	1					
222	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T6	-	4	2					
223	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T4	-	19	-					
224	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T4	-	21	1					
225	PR 3'-0"x7'-0"x1 3/4"	HM	PT	D3	HM	PT	HM5	J2	H2	---	T2	-	22	-					
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227	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
228	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
229	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
230	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T2	-	20	20	1				
231	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	20	2					
232	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
233	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
234	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	20	2					
235	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
236	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
237	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
238	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM23	J4	H4	---	T2	-	19	-					
239	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
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241	3'-0"x7'-0"x1 3/4"	SCW	ST	D2	HM	PT	HM2	J4	H4	---	T4	-	20	20	1				
242	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
243	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	23	-					
244	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
245	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	23	-					
246	3'-0"x7'-0"x1 3/4"	HM	PT	D6	HM	PT	HM2	J2	H2	---	T2	-	18	-					
247	3'-0"x7'-0"x1 3/4"	SCW	ST	D1	HM	PT	HM2	J4	H4	---	T2	-	19	-					



2 DOOR ELEVATIONS

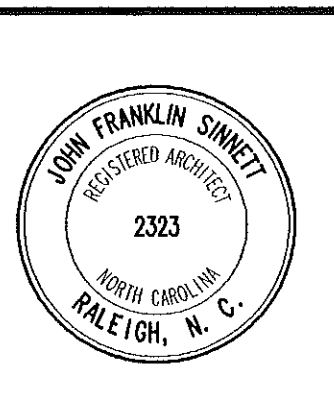
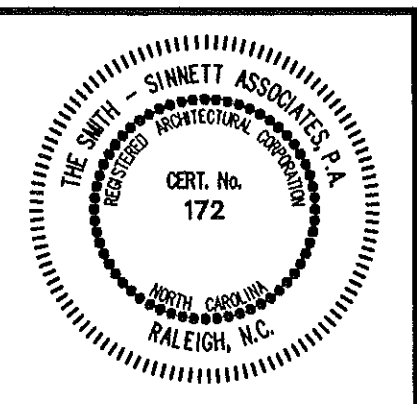
A-24
1/4" = 1'-0"



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consultant

Project Manager: **John F. Sinnett, AIA**
Project Designer: **JFS**
Project Engineer:
drawn by: **ACC/LFC**
checked by: **RA**

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RECORD DRAWINGS

6-8-98

no.	description	date
Revisions		

New Havelock Middle School

Craven County
North Carolina

project title

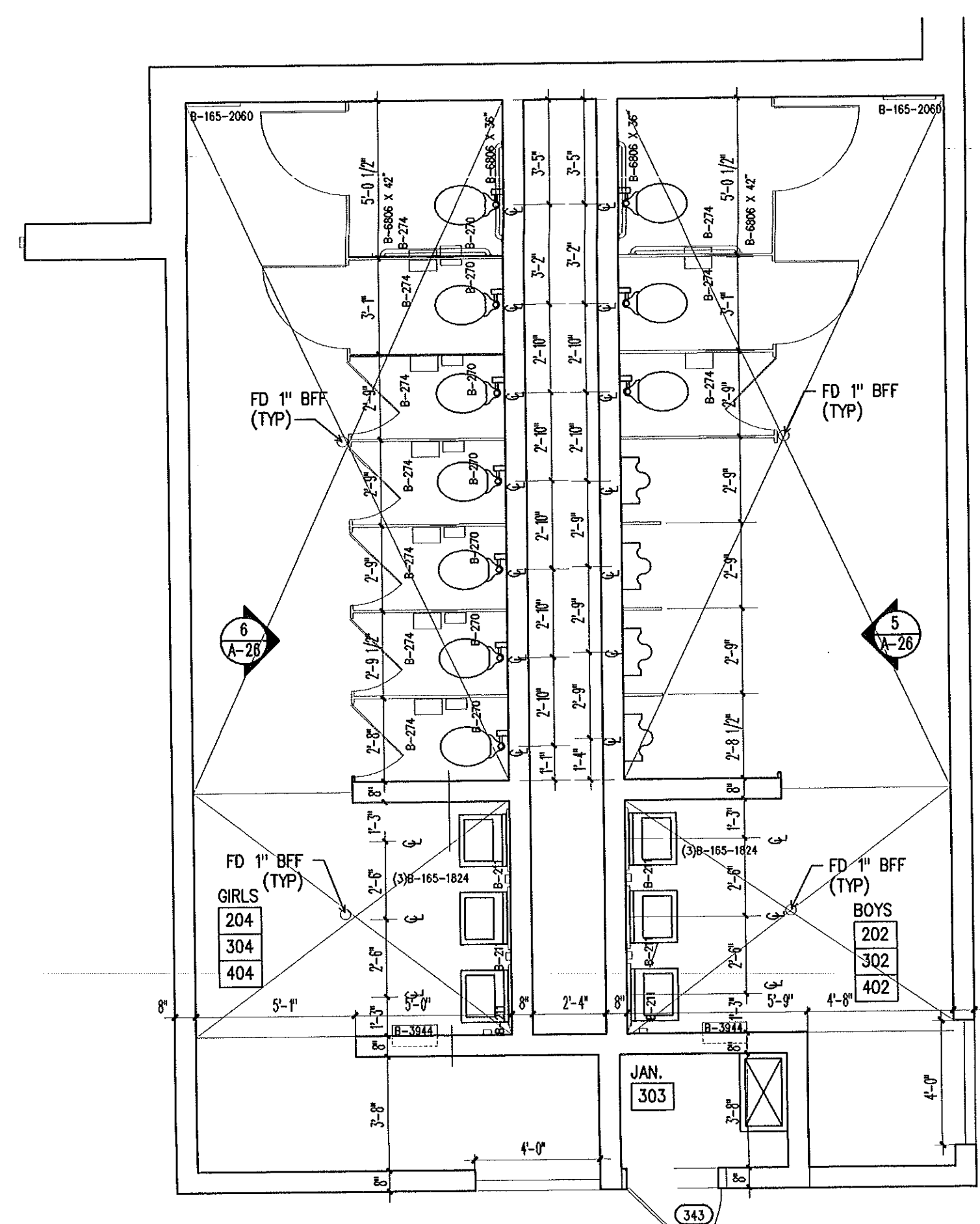
**FRAME AND DOOR ELEVATIONS
DOOR AND WINDOW DETAILS**

sheet title	scale:
F9502.01	
project no.	sheet no. 24 of 43
01/15/98	sheet no. A-24
date	

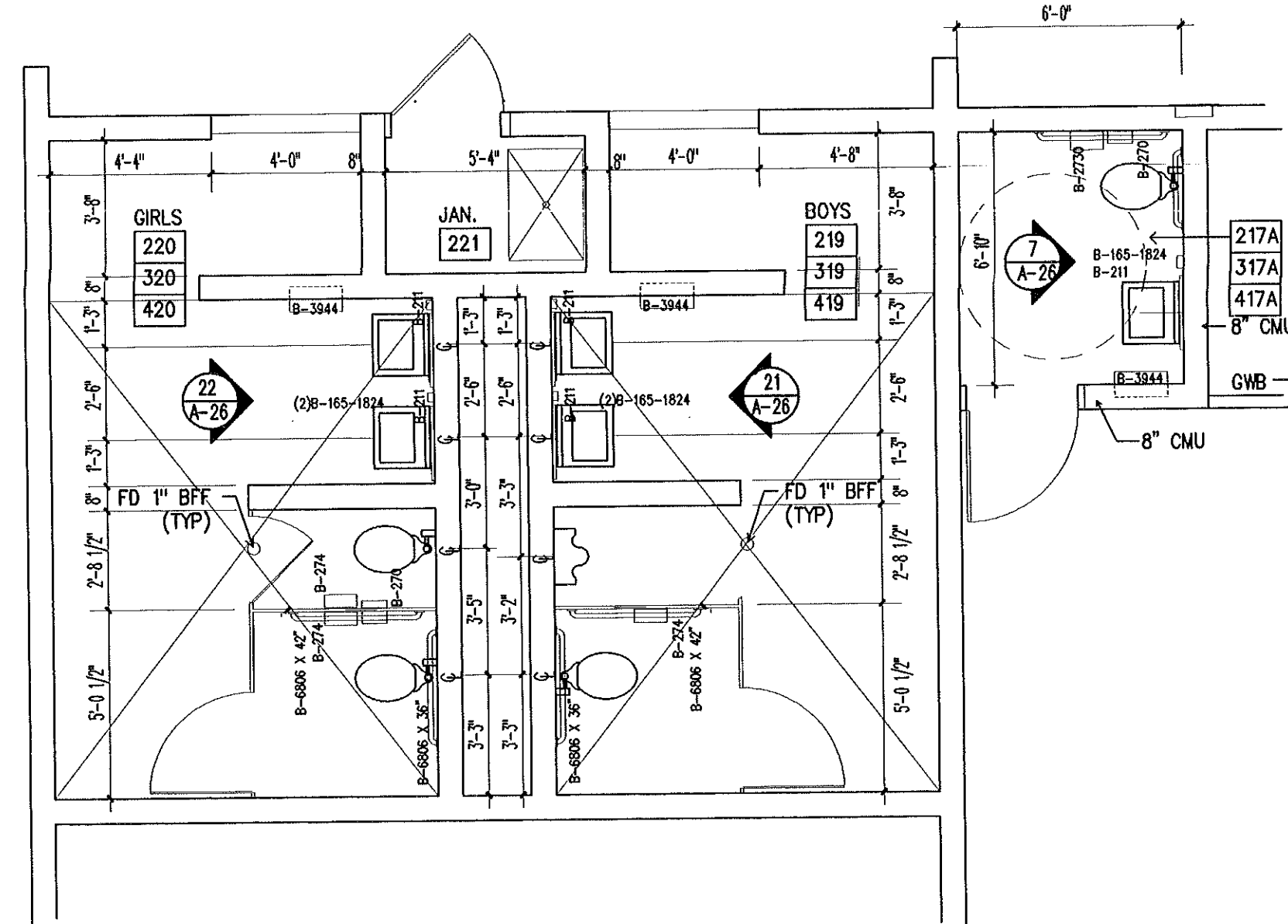
1 A-25 ROOM FINISH SCHEDULE										
MARK	ROOM NAME	FLOOR		BASE	WALLS		CEILINGS	REMARKS	MARK	
		MAT'L	FINISH		MAT'L	FINISH				
100	LOBBY	CONC	VCT	RUB	GWB/PT	PT (GWB)	ACT	VARIES		
100M	MECHANICAL	CONC	SEALED	-	CMU	PT	GWB	SLOPES		
101	CORRIDOR	CONC	CPT	RUB	GWB	PT	ACT/GWB	10'-0"		
102	CORRIDOR	CONC	CPT	RUB	GWB	PT	ACT/GWB	10'-0"		
103	WAITING	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
104	RECEPTION	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
105	BOOK KEEPING	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
106	SIMS	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
106A	STORAGE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
107	ASST. PRINCIPAL	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
108	WORK ROOM	CONC	CPT	RUB	GWB	PT	ACT	10'-0"		
109	PRINCIPAL	CONC	CPT	RUB	CMU/GWB	PT/VWC	ACT	10'-0"		
110	CONFERENCE	CONC	CPT	RUB	CMU/GWB	PT/VWC	ACT	10'-0"		
111	TOILET	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
112	TOILET	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
113	HEALTH	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
114	CORRIDOR	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
115	SECRETARY	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
116	RECORDS	CONC	CPT	RUB	CMU	PT	CONC	CLG 2 - HR		
117	GUIDANCE	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
118	TESTING	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
119	BOOK STORAGE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
120	I.S.S.	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
121	TOILET	CONC	CT	CT	CMU/GWB	EPT	GWB(EPT)	8'-0"		
122	GUIDANCE	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
123	TESTING	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
124	ASST. PRINCIPAL	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
125	OTHER STUDENT SVCS	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
126	OFFICE	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
127	VESTIBULE	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
128	TOILET	CONC	CT	CT	CMU/GWB	PT	GWB	10'-0"		
129	ALTERNATE SCHOOL	CONC	CPT	RUB	CMU/GWB	PT	ACT	8'-0"		
130	COMMONS	CONC	VCT	RUB	BRK/CMU	NONE	GWB/ACT	VARIES		
200	CORRIDOR	CONC	VCT	RUB	CMU	PT	ACT	VARIES		
200M1	MECHANICAL	CONC	SEALED	-	CMU	PT	GWB	SLOPES		
201	C.C.C. LAB	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
201A	CONFERENCE	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
202	BOYS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
203	JANITOR	CONC	VCT	RUB	CMU	EPT	GWB(EPT)	8'-0"		
204	GIRLS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
205	NETWORKING ROOM	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
206	B.E.H.	CONC	CPT/VCT	RUB	CMU	PT	ACT	10'-0"		
207	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
207A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
208	RESOURCE	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
209	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
210	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
210A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
211	CONFERENCE	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
212	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
212A	STORAGE	CONC	VCT	RUB	CMU	PT	GWB	10'-0"		
213	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
213A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
214	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
214A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
215	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
216	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
217	TEACHER WORKROOM	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
217A	TOILET	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
218	SCIENCE	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
218A	STORAGE	CONC	VCT	RUB	CMU	PT	GWB	10'-0"		
219	BOYS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
220	GIRLS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
221	JANITOR	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
222	CLASSROOM	CONC	CPT/VCT	RUB	CMU	PT	ACT	10'-0"		
222A	STORAGE	CONC	VCT	RUB	CMU	PT	GWB	10'-0"		
223	COMMONS	CONC	VCT	RUB	CMU/BRK	NONE	GWB/ACT	VARIES		
200M2	MECHANICAL	CONC	SEALED	-	CMU	PT	GWB	SLOPES		
200E	ELEC. CLOSET	CONC	VCT	-	CMU	PT	GWB	SLOPES		
300	CORRIDOR	CONC	VCT	RUB	CMU	PT	ACT	VARIES		
300M1	MECHANICAL	CONC	SEALED	-	CMU	PT	GWB	SLOPES		
301	VOCATIONAL ED	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
301A	CONFERENCE	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
302	BOYS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
303	JANITOR	CONC	VCT	RUB	CMU	EPT	GWB(EPT)	8'-0"		
304	GIRLS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
305	NETWORKING ROOM	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
306	VOCATIONAL ED.	CONC	CPT/VCT	RUB	CMU	PT	ACT	10'-0"		
307	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
307A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
308	RESOURCE	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
309	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
310	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
310A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
311	CONFERENCE	CONC	CPT	RUB	CMU	PT	ACT	10'-0"		
312	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
312A	STORAGE	CONC	VCT	RUB	CMU	PT	GWB	10'-0"		
313	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
313A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
314	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
314A	OFFICE	CONC	CPT	RUB	CMU	PT	GWB	10'-0"		
315	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
316	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	ACT	10'-0"		
317	TEACHER WORKROOM	CONC	CPT	RUB	CMU/GWB	PT	ACT	10'-0"		
317A	TOILET	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		
318	SCIENCE	CONC	VCT	RUB	CMU	PT	ACT	10'-0"		
318A	STORAGE	CONC	VCT	RUB	CMU	PT	GWB	10'-0"		
319	BOYS	CONC	CT	CT	CMU	EPT	GWB(EPT)	8'-0"		

NOTE: *ACC COLUMN - ADDITIONAL INFORMATION WILL BE FORTHCOMING IN THE ADDENDUM WITH SHEETS A-31 AND A-32 - "FLOOR PATTERNS"

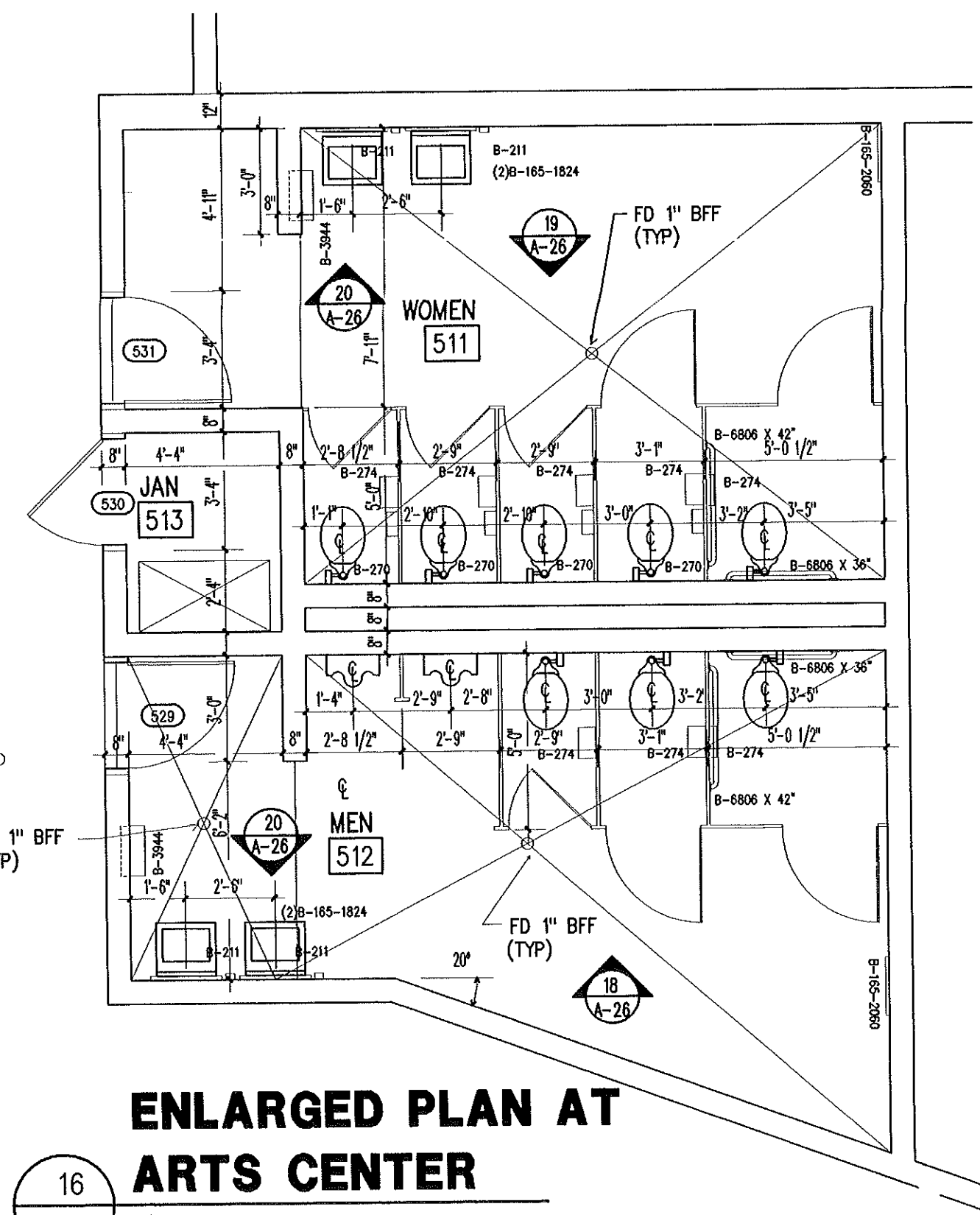
1 A-25 ROOM FINISH SCHEDULE											
MARK	ROOM NAME	FLOOR		BASE	WALLS		ACC*	CEILING		REMARKS	MARK
		MAT'L	FINISH		MAT'L	FINISH		MAT'L	HEIGHT		
320	GIRLS	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
321	JANITOR	CONC	VCT	RUB	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
322	CLASSROOM	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
322A	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
323	COMMONS	CONC	VCT	RUB	CMU/BRK	NONE	-	GWB/ACT	VARIES	-	-
300M2	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
300E	ELEC. CLOSET	CONC	VCT	-	CMU	PT	-	GWB	SLOPES	-	-
400	CORRIDOR	CONC	VCT	RUB	CMU	PT	-	ACT	VARIES	-	-
400M1	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
401	VOCATIONAL ED	CONC	VCT	RUB	CMU	PT	-	ACT	12'-0"	-	-
401A	CONFERENCE	CONC	VCT	RUB	CMU	EPT	-	ACT	10'-0"	-	-
402	BOYS	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
403	JANITOR	CONC	VCT	RUB	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
404	GIRLS	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
405	NETWORKING ROOM	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
406	SCIENCE	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
406A	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
407	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
407A	OFFICE	CONC	CPT	RUB	CMU	PT	-	GWB	10'-0"	-	-
408	CONFERENCE	CONC	CPT	RUB	CMU	PT	-	ACT	10'-0"	-	-
409	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
410	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
410A	OFFICE	CONC	CPT	RUB	CMU	PT	-	GWB	10'-0"	-	-
411	CONFERENCE	CONC	CPT	RUB	CMU	PT	-	ACT	10'-0"	-	-
412	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
412A	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
413	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
413A	OFFICE	CONC	CPT	RUB	CMU	PT	-	GWB	10'-0"	-	-
414	SCIENCE	CONC	VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
414A	OFFICE	CONC	CPT	RUB	CMU	PT	-	GWB	10'-0"	-	-
415	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
416	CLASSROOM	CONC	CPT/VCT	RUB	CMU/GWB	PT	-	ACT	10'-0"	-	-
417	TEACHER WORKROOM	CONC	CPT	RUB	CMU/GWB	PT	-	ACT	12'-0"	-	-
417A	TOILET	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	10'-0"	-	-
418	SCIENCE	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
418A	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
419	BOYS	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
420	GIRLS	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
421	JANITOR	CONC	VCT	RUB	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
422	CLASSROOM	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
422A	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
400M2	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
400E	ELEC. CLOSET	CONC	VCT	-	CMU	PT	-	GWB	SLOPES	-	-
500	CORRIDOR	CONC	VCT	RUB	CMU	PT	-	ACT	11'-0"	-	-
500M1	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
501	ART	CONC	VCT	RUB	CMU	PT	-	ACT	14'-0"	-	-
501A	KILN	CONC	VCT	RUB	CMU	PT	-	GWB	15'-0"	-	-
501B	STORAGE	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
502	CHAPTER 1	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
503	GIFTED	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
504	CHAPTER 1	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
505	REMEDICATION	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
506	LEARNING DISABLED	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
507	SPANISH	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
508	SELF-CONTAINED	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	10'-0"	-	-
509	LOBBY	CONC	VCT	RUB	CMU	NONE	-	ACT/GWB	VARIES	-	-
510	REMEDICATION	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
511	WOMEN	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
512	MEN	CONC	CT	CT	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
513	JANITOR	CONC	VCT	RUB	CMU	EPT	-	GWB(EPT)	8'-0"	-	-
514	DANCE/DRAMA	CONC	VCT	RUB	CMU	PT	-	ACT/GWB	VARIES	-	-
515	CHAIR STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
516	STAGE	CONC	WD	RUB/ALUM.	RUB	CMU	PT	ACT/GWB	VARIES	-	-
517	LOBBY	CONC	VCT	RUB	CMU	PT	-	ACT/GWB	12'-0"	-	-
518	CORRIDOR	CONC	VCT	RUB	CMU	PT	-	ACT/GWB	10'-0"	-	-
519	BAND	CONC	CPT/VCT	RUB	CMU	PT	-	ACT	14'-0"	-	-
520	STORAGE	CONC	VCT	RUB	CMU	PT	-	GWB	10'-0"	-	-
521	OFFICE	CONC	CPT	RUB	CMU	PT	-	GWB	10'-0"	-	-
500M2	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
600	CORRIDOR	CONC	VCT	RUB	CMU	PT	-	ACT	11'-0"	-	-
600M1	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
601	MEDIA CENTER	CONC	CPT	RUB	CMU	PT	-	ACT	VARIES	-	-
601A	COMPUTER	CONC	CPT	RUB	CMU	PT	-	ACT	11'-0"	-	-
602	AVA	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
603	NETWORK ROOM	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
604	PERIODICALS	CONC	CPT	RUB	CMU	PT	-	ACT	10'-0"	-	-
605	WORKROOM	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
606	OFFICE	CONC	CPT	RUB	CMU	PT	-	ACT	10'-0"	-	-
607	STORAGE	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
608	STORAGE	CONC	VCT	RUB	CMU	PT	-	ACT	10'-0"	-	-
700	CORRIDOR	CONC	VCT	RUB	CMU	PT	-	ACT	11'-0"	-	-
700E	ELECTRICAL	CONC	VCT	-	CMU	PT	-	GWB	SLOPES	-	-
700M	MECHANICAL	CONC	SEALED	-	CMU	PT	-	GWB	SLOPES	-	-
701	CAFETERIA	CONC	VCT	RUB	CMU	PT	-	ACT	VARIES	-	-
702	SERVING	CONC	QT	QT B	CMU	EPT	-	ACT	10'-0"	-	-
703	KITCHEN	CONC	QT	QT B	CMU	EPT	-	ACT	10'-0"	-	-
704	FREEZER	CONC	-	-	-	EPT	-	GWB	10'-0"	-	-
705	OFFICE	CONC	VCT	RUB	CMU	EPT	-	ACT	10'-0"	-	-
706	JANITOR CLOSET	CONC	QT	QT B	CMU	EPT	-	ACT	8'-0"	-	-
707	LAUNDRY	CONC	QT	QT B	CMU	EPT	-	ACT	9'-0"	-	-
708	TOILET	CONC	QT	QT B	CMU	EPT	-	ACT	8'-0"	-	-
709	DISHWASH	CONC	QT	QT B	CMU	EPT	-	ACT	10'-0"	-	-
710	DRY STORAGE	CONC	QT	QT B	CMU	EPT	-	ACT	10'-0"	-	-
711	STORAGE	CONC	SEALED	-	CMU	EPT	-	GWB	8'-0"	-	-
712	CAN WASH	CONC	QT	QT B	CMU	EPT	-	GWB	8'-0"	-	-
713	REFRIGERATOR	CONC	-	-	-	-	-	GWB	-	-	-
714	STORAGE	CONC	VCT	RUB	CMU	PT	-	ACT	12'-0"	-	-



1 ENLARGED PLAN AT WINGS
A-26 1/4" = 1'-0"



2 ENLARGED PLAN AT WINGS AND TEACHER WORKROOM
A-26R 1/4" = 1'-0"

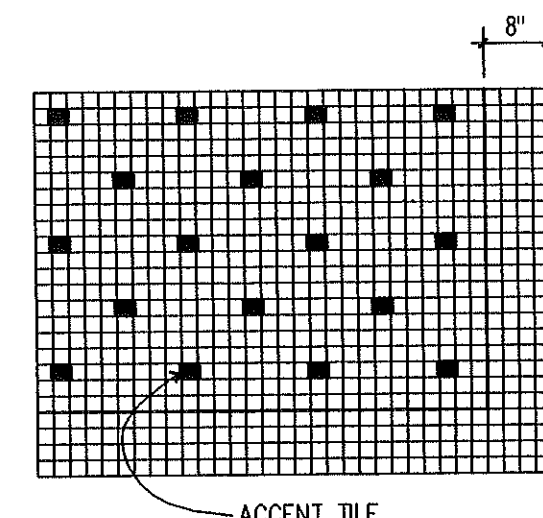


16 ENLARGED PLAN AT ARTS CENTER
A-26 1/4" = 1'-0"

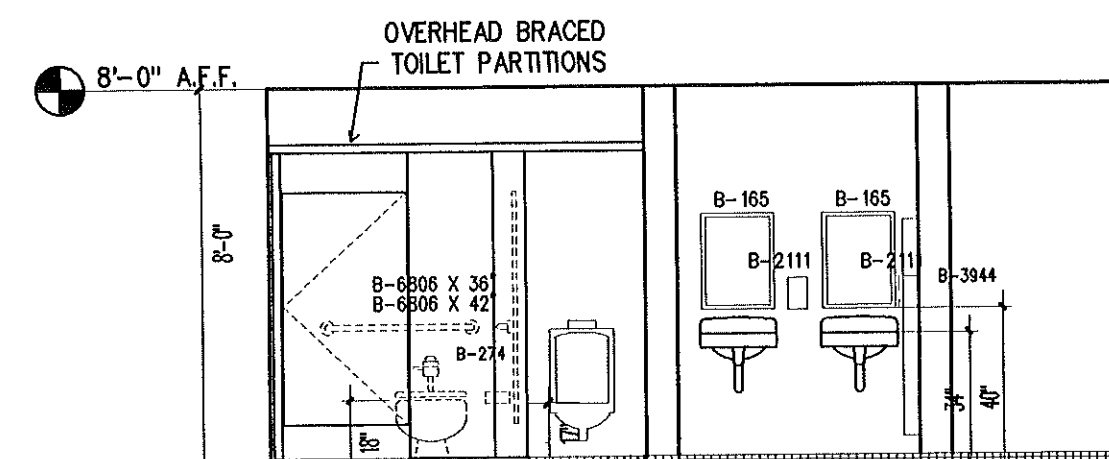
UNIT	DESCRIPTION	MOUNTING HEIGHT
B-165-1824	18" X 24" GLASS MIRROR	3'-4" TO BOTTOM OF UNIT
B-165-2060	20" X 60" GLASS MIRROR	1'-0" TO BOTTOM OF UNIT
B-2111	SURFACE MOUNTED SOAP DISPENSER	4'-0" TO TOP OF UNIT
B-270	SURFACE MOUNTED SAN. NAPKIN DISPOSAL	2'-1" TO TOP OF UNIT
B-274	DOUBLE SURFACE MOUNTED TOILET TISSUE DISPENSER, CONTROLLED DELIVERY	1'-7" TO TOP OF UNIT
B-3944	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	4'-0" TO DISPENSER SLOT
B-671	ROBE HOOK	5'-0" TO TOP OF UNIT
B-6806x36"	36" GRAB BAR	2'-9" O.C.
B-6806x42"	42" GRAB BAR	2'-9" O.C.

UNIT NUMBERS BEGINNING WITH "B" ARE PRODUCTS OF "BOBBICK WASHROOM EQUIPMENT INC."

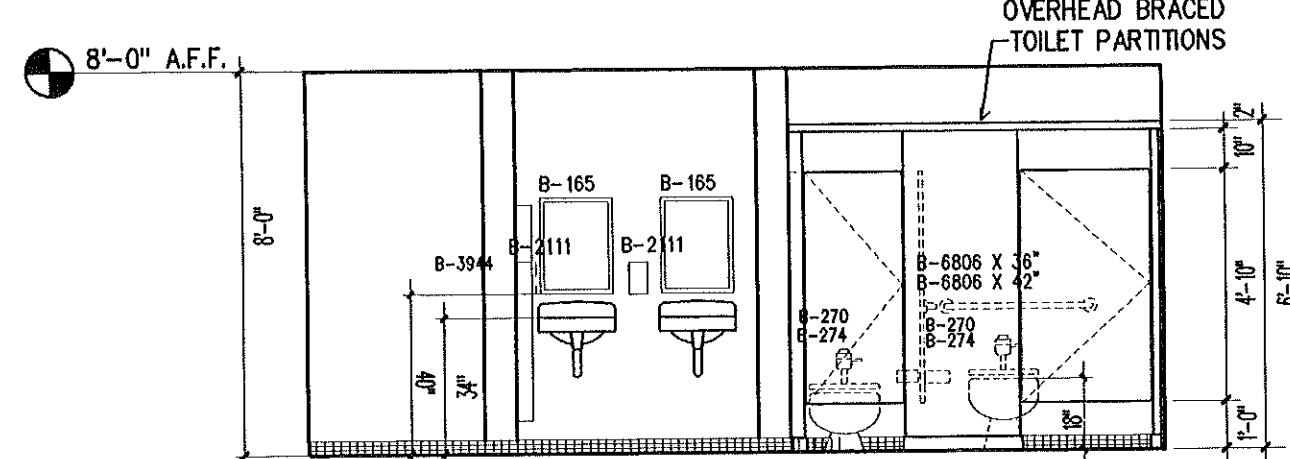
- NOTES:
1. EA. SQUARE REPRESENTS (1) 2'x2' TILE.
 2. TOILET ROOM BORDERS ARE 8" WIDE TOTAL FROM OUTSIDE TO INSIDE-COLOR FROM TILE COST SELECTION 3 OR 4.
 3. FIELD COLOR.
 4. ACCENT TILE IN FIELD TILE COST SELECTION 3 OR 4.
 5. ADJUSTMENTS/CUTS ARE TO BE DONE IN THE FIELD COLOR NEAR THE BORDER UNDER THE WATER CLOSERS. FINAL LAYOUT TO BE PROVIDED DURING SHOP DRAWING SUBMITTAL.



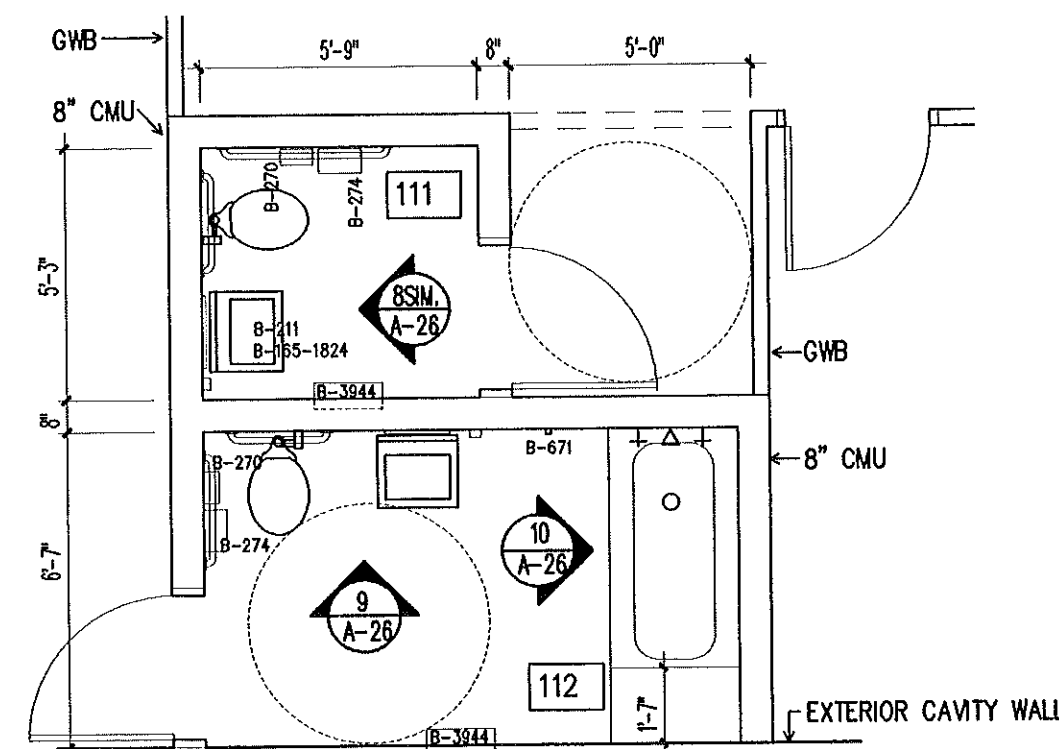
15 TYP. CT. PATTERN
A-26 1/2" = 1'-0"



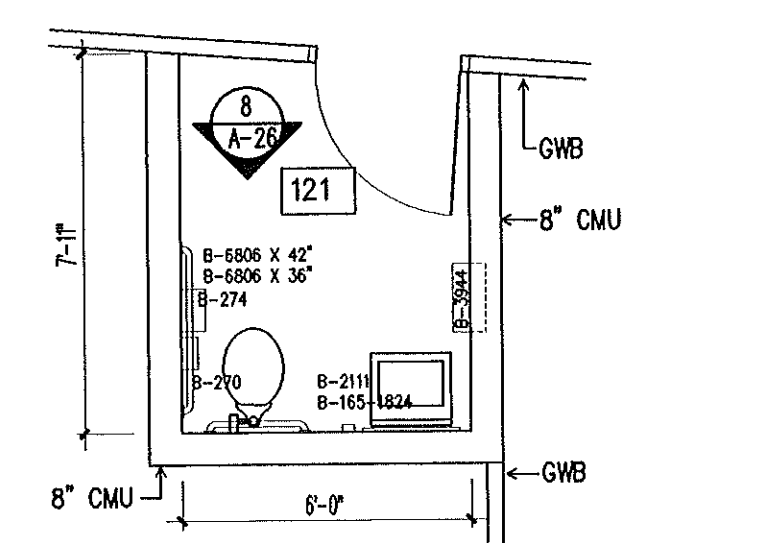
21 BOYS' CLASSROOM WING ELEVATION
A-26R 1/4" = 1'-0"



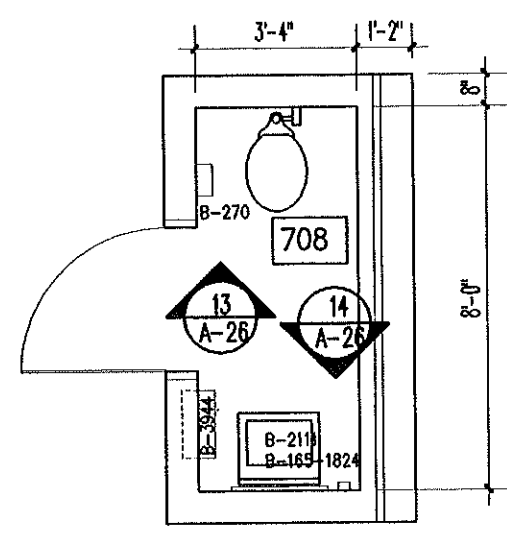
22 GIRLS' CLASSROOM WING ELEVATION
A-26R 1/4" = 1'-0"



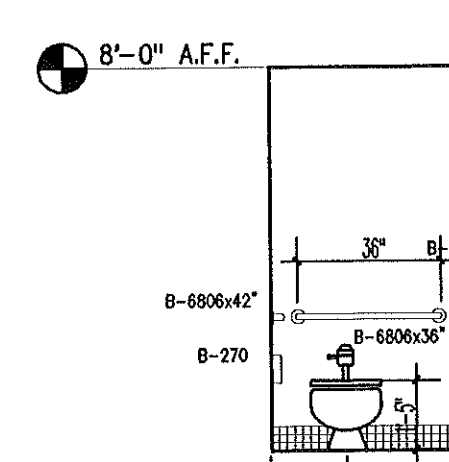
3 ENLARGED PLAN AT HEALTH
A-26 1/4" = 1'-0"



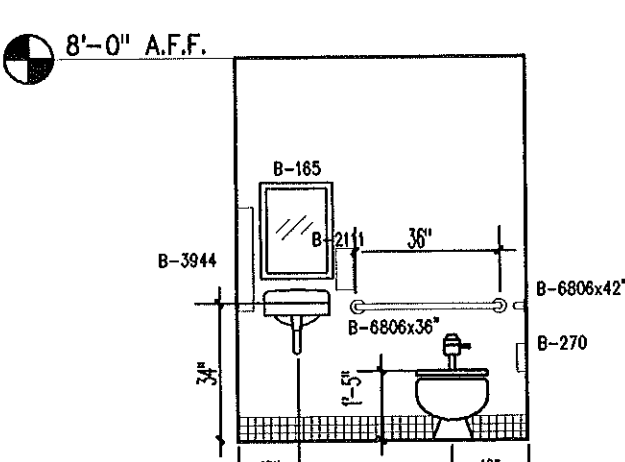
4 ENLARGED PLAN AT ADMINISTRATION
A-26 1/4" = 1'-0"



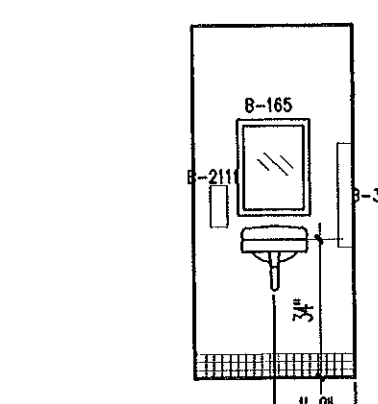
12 ENLARGED PLAN AT CAFETERIA
A-26 1/4" = 1'-0"



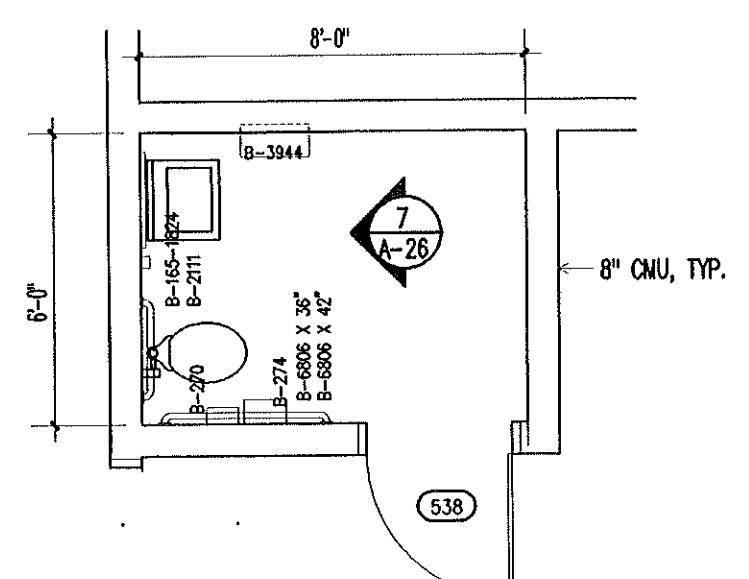
7 TOILET ELEVATION
A-26 1/4" = 1'-0"



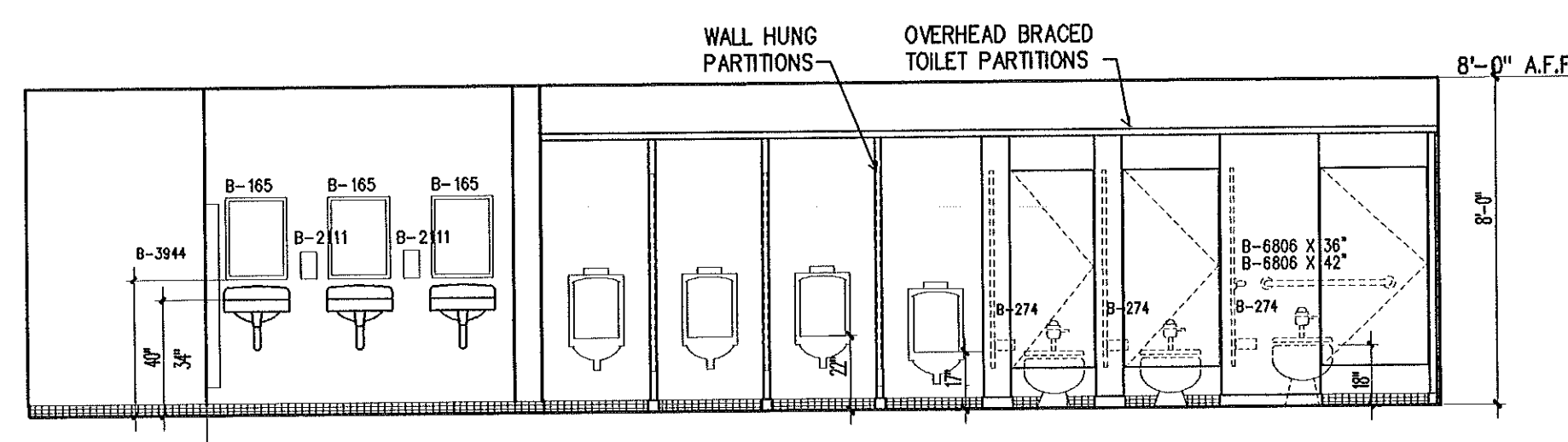
8 TOILET ELEVATION
A-26 1/4" = 1'-0"



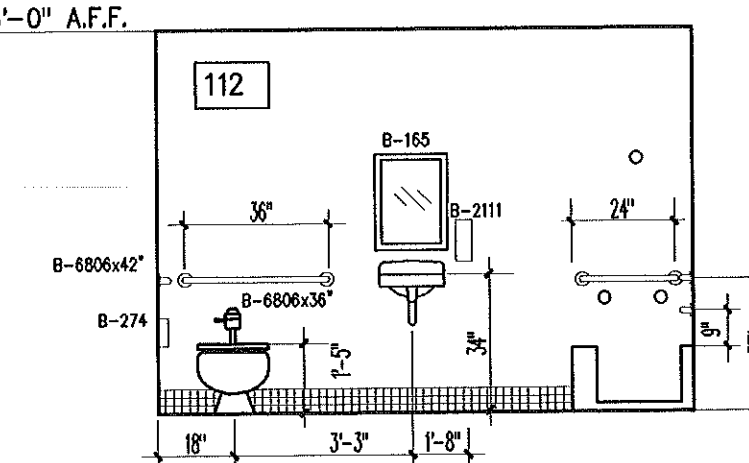
14 TOILET ELEV.
A-26 1/4" = 1'-0"



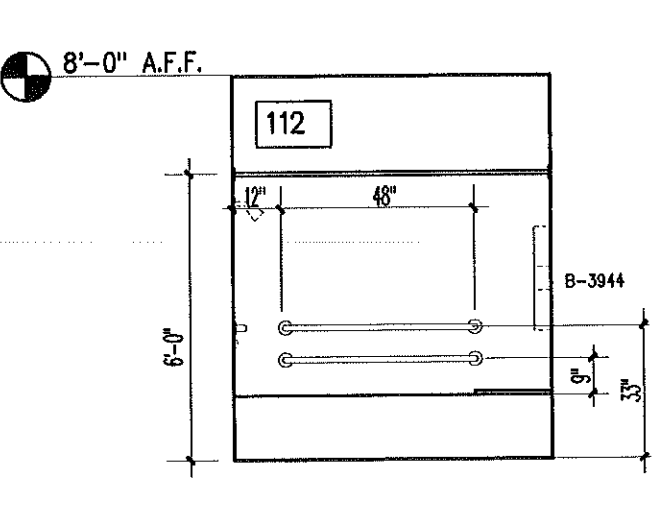
17 ENLARGED PLAN AT SELF CONTAINED
A-26 1/4" = 1'-0"



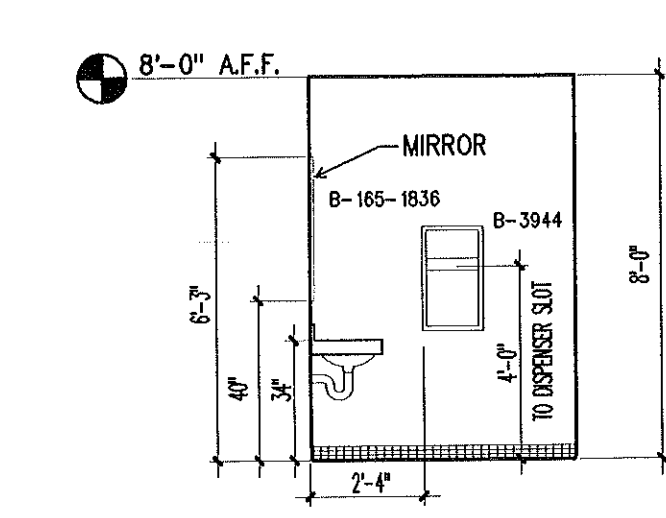
5 BOYS' CLASSROOM WING ELEVATION
A-26 1/4" = 1'-0"



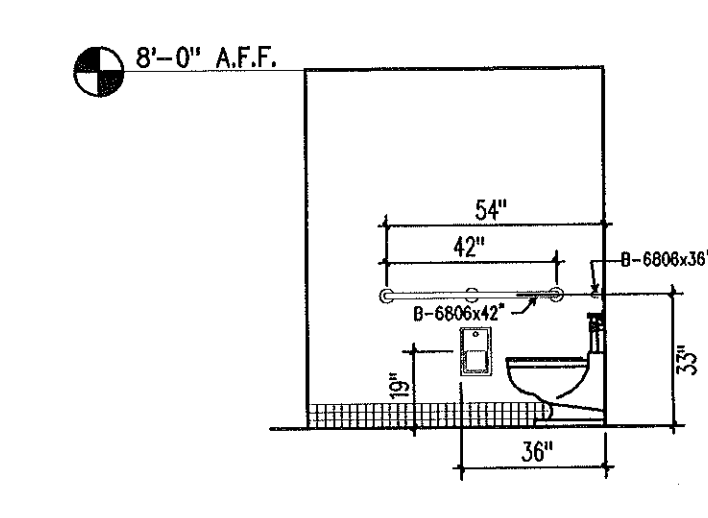
9 TOILET ELEVATION
A-26 1/4" = 1'-0"



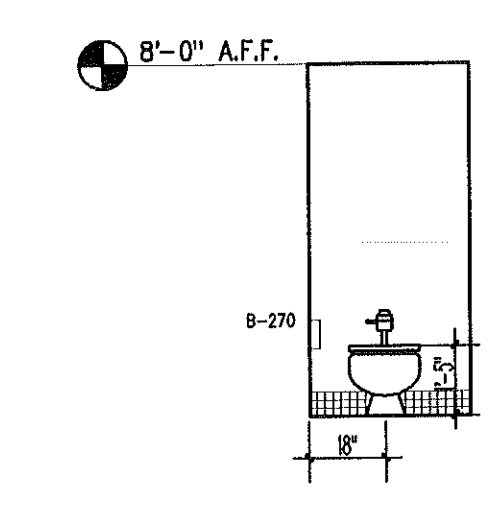
10 SHOWER ELEV.
A-26 1/4" = 1'-0"



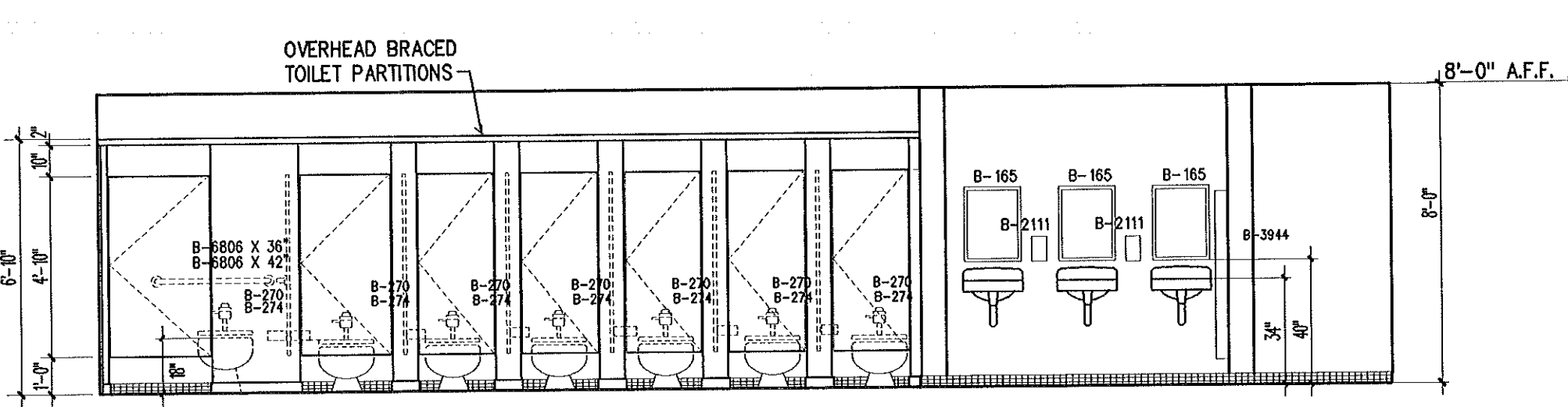
11 TYP. LAVATORY ELEV.
A-26 1/4" = 1'-0"



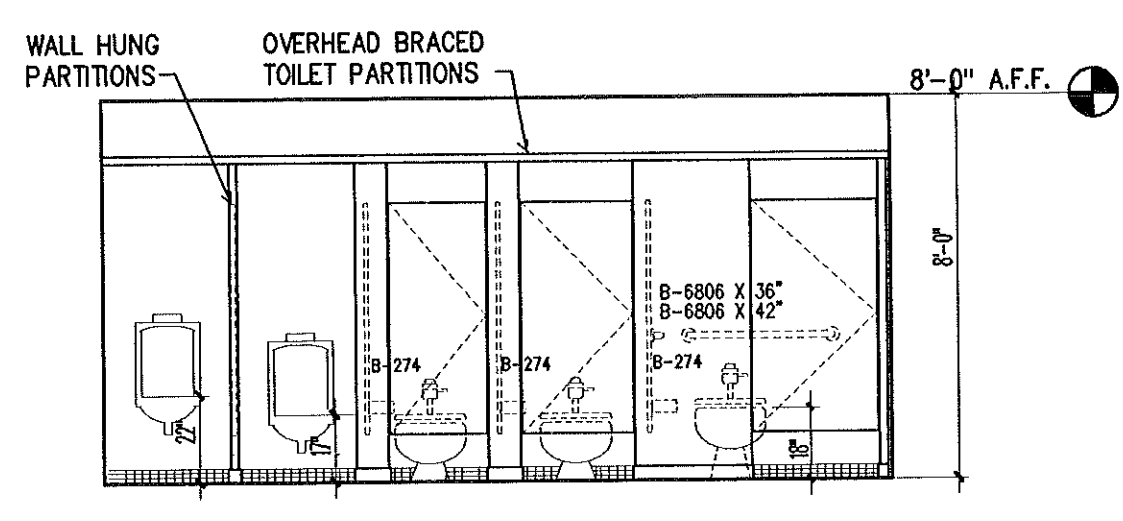
12 TYP. TOILET ELEV.
A-26 1/4" = 1'-0"



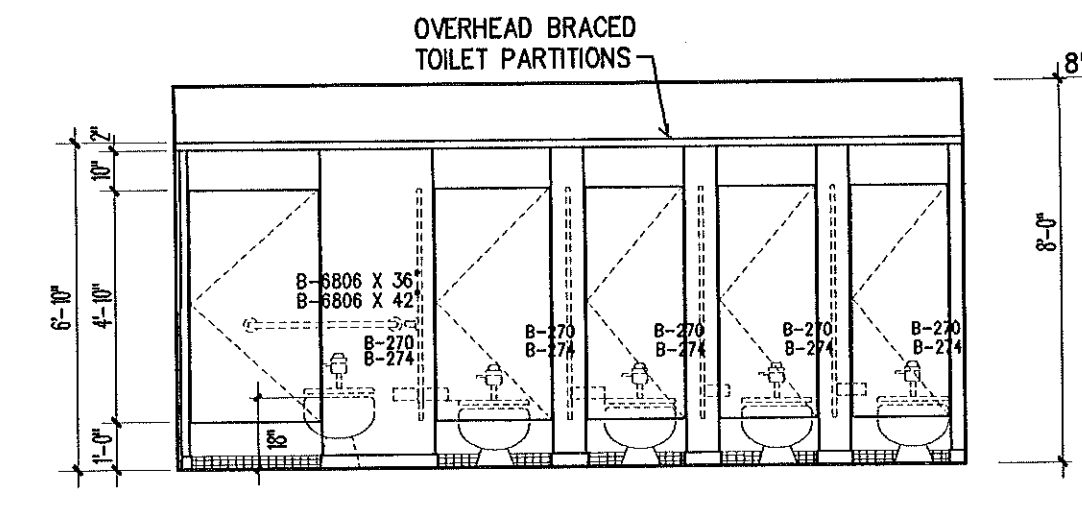
13 TOILET ELEV.
A-26 1/4" = 1'-0"



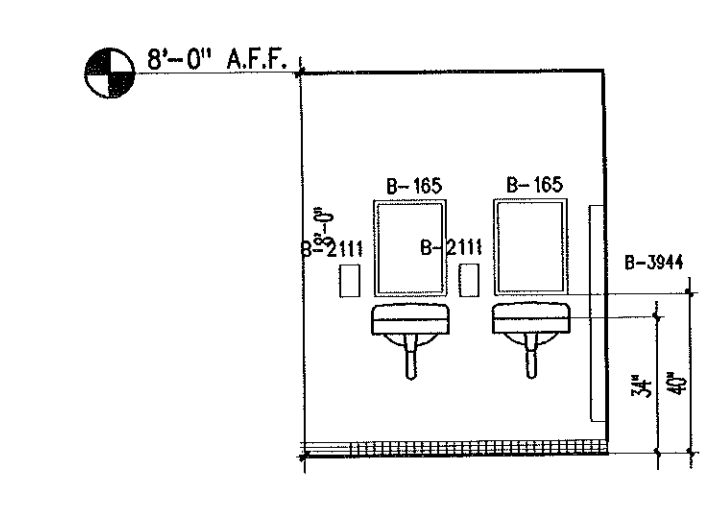
6 GIRLS' CLASSROOM WING ELEVATION
A-26 1/4" = 1'-0"



18 BOYS' ARTS CENTER ELEVATION
A-26 1/4" = 1'-0"



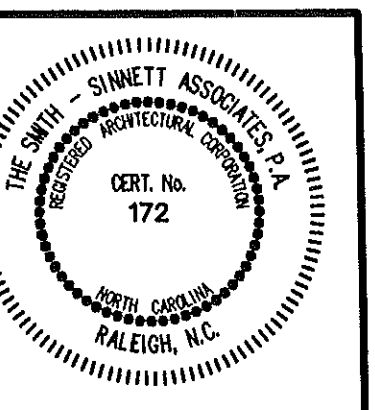
19 GIRLS' ARTS CENTER ELEVATION
A-26 1/4" = 1'-0"



20 TOILET ELEVATION
A-26 1/4" = 1'-0"

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drawn by: RA
checked by:

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1 RECORD DRAWINGS

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Revisions

New Havelock Middle School

Craven County
North Carolina

project title

ENLARGED TOILET PLANS, ELEVATIONS, DETAILS

sheet title scale:

F9502.01

project no.

1/15/96

date

sheet no.

28

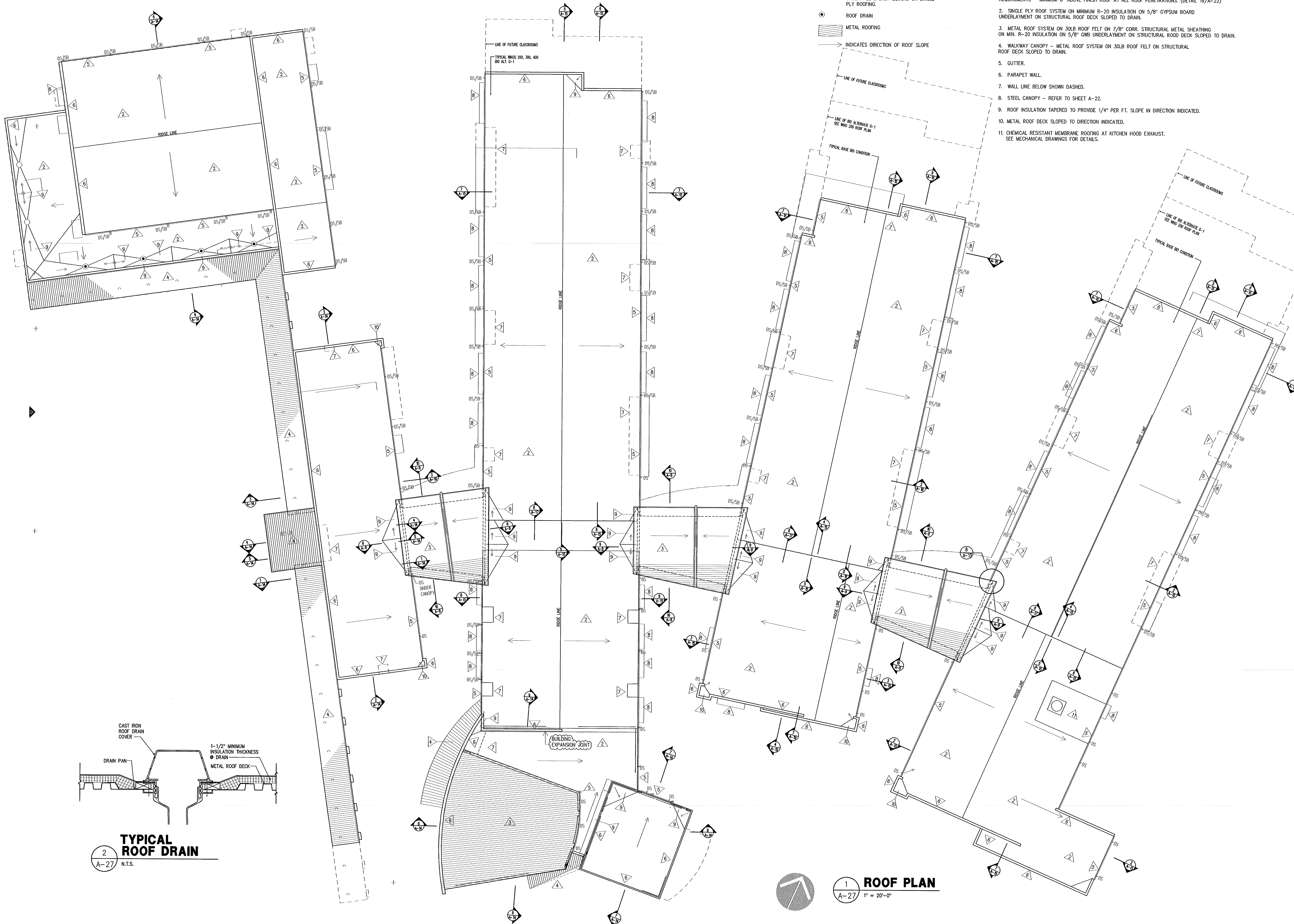
of

43

sheet no.

A-26

released for construction 1/15/96



ROOF PLAN LEGEND

- DS DOWNSPOUT LOCATION
- DS/SB DOWNSPOUT LOCATION W/ SPLASHBLOCK - PROVIDE 2 LAYERS 60 MIL. PADDING UNDER ALL SPLASH BLOCKS ON SINGLE PLY ROOFING.
- RD ROOF DRAIN
- METAL ROOFING
- INDICATES DIRECTION OF ROOF SLOPE

ROOF PLAN NOTES

△ INDICATES LOCATION OF NOTE

1. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROVIDE ALL CURBS, FLASHING, AND OTHER ITEMS NECESSARY TO COMPLETELY WATER PROOF ALL ROOF PENETRATIONS AND/OR EQUIPMENT PER ROOF MANUFACTURER'S REQUIREMENTS. PROVIDE CURB FLASHING PER ROOF MANUFACTURER'S REQUIREMENTS - MINIMUM 8" ABOVE FINISH ROOF AT ALL ROOF PENETRATIONS. (DETAIL 19/A-22)
2. SINGLE PLY ROOF SYSTEM ON MINIMUM R-20 INSULATION ON 5/8" GYPSUM BOARD UNDERLAYMENT ON STRUCTURAL ROOF DECK SLOPED TO DRAIN.
3. METAL ROOF SYSTEM ON 3/8" ROOF FELT ON 7/8" CORR. STRUCTURAL METAL SHEATHING ON MIN. R-20 INSULATION ON 5/8" GWB UNDERLAYMENT ON STRUCTURAL ROOF DECK SLOPED TO DRAIN.
4. WALKWAY CANOPY - METAL ROOF SYSTEM ON 3/8" ROOF FELT ON STRUCTURAL ROOF DECK SLOPED TO DRAIN.
5. GUTTER.
6. PARAPET WALL.
7. WALL LINE BELOW SHOWN DASHED.
8. STEEL CANOPY - REFER TO SHEET A-22.
9. ROOF INSULATION TAPERED TO PROVIDE 1/4" PER FT. SLOPE IN DIRECTION INDICATED.
10. METAL ROOF DECK SLOPED TO DIRECTION INDICATED.
11. CHEMICAL RESISTANT MEMBRANE ROOFING AT KITCHEN HOOD EXHAUST. SEE MECHANICAL DRAWINGS FOR DETAILS.

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Project Engineer: **LFC**
drawn by: **RA**
checked by:

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New Havelock Middle School
Craven County
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ROOF PLAN

sheet title scale:

F9502.01
project no.

1/15/96
date

sheet no. **27** of: **43**

sheet no. **A-27**

1 ROOF PLAN
A-27 1" = 20'-0"

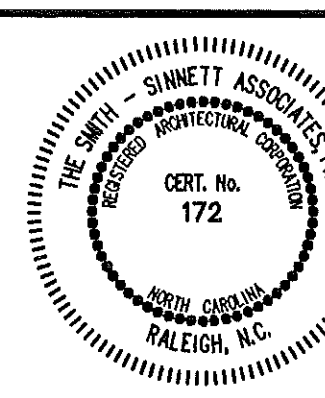
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Project Engineer: LFC

drawn by: RA

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New Havelock Middle School

Craven County
North Carolina

project title

MILLWORK

sheet title scale:

F9502.01

project no.

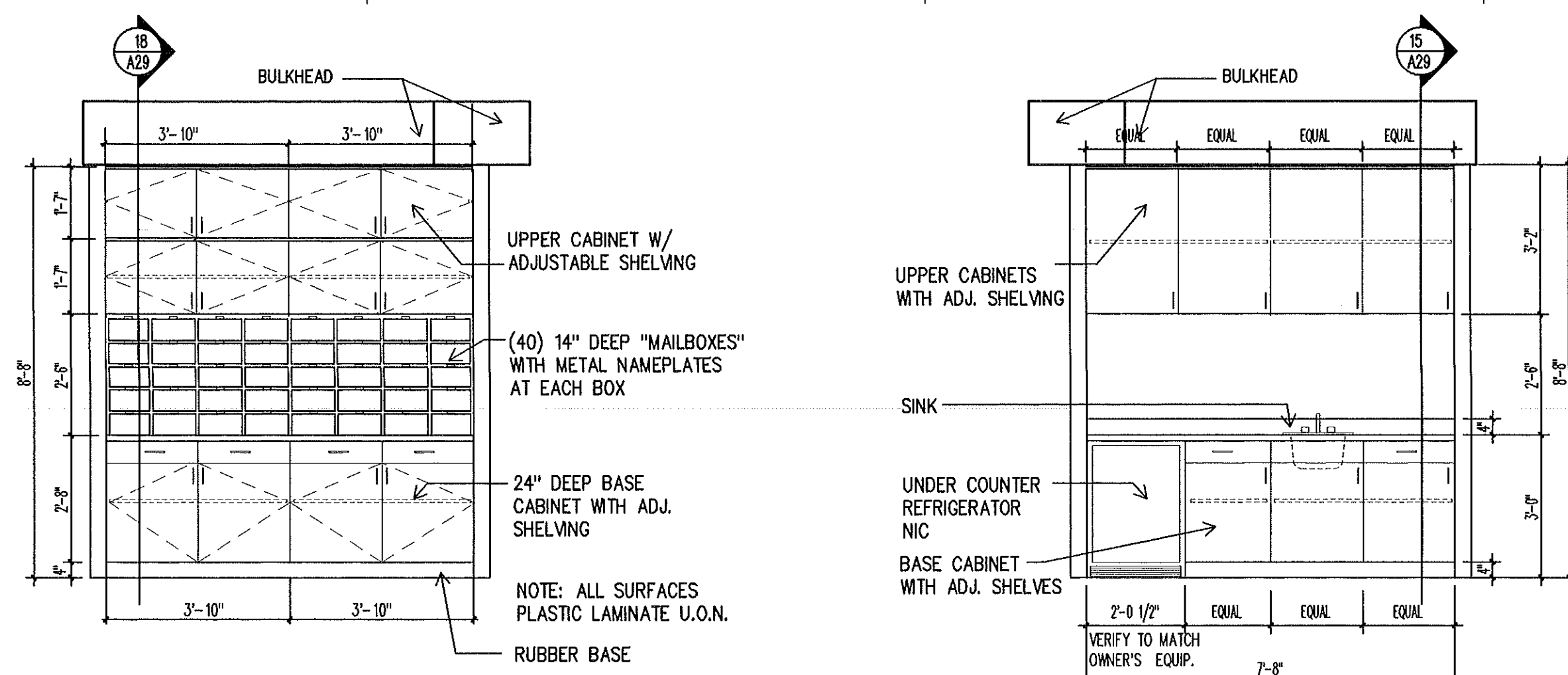
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sheet no. 28 of 43

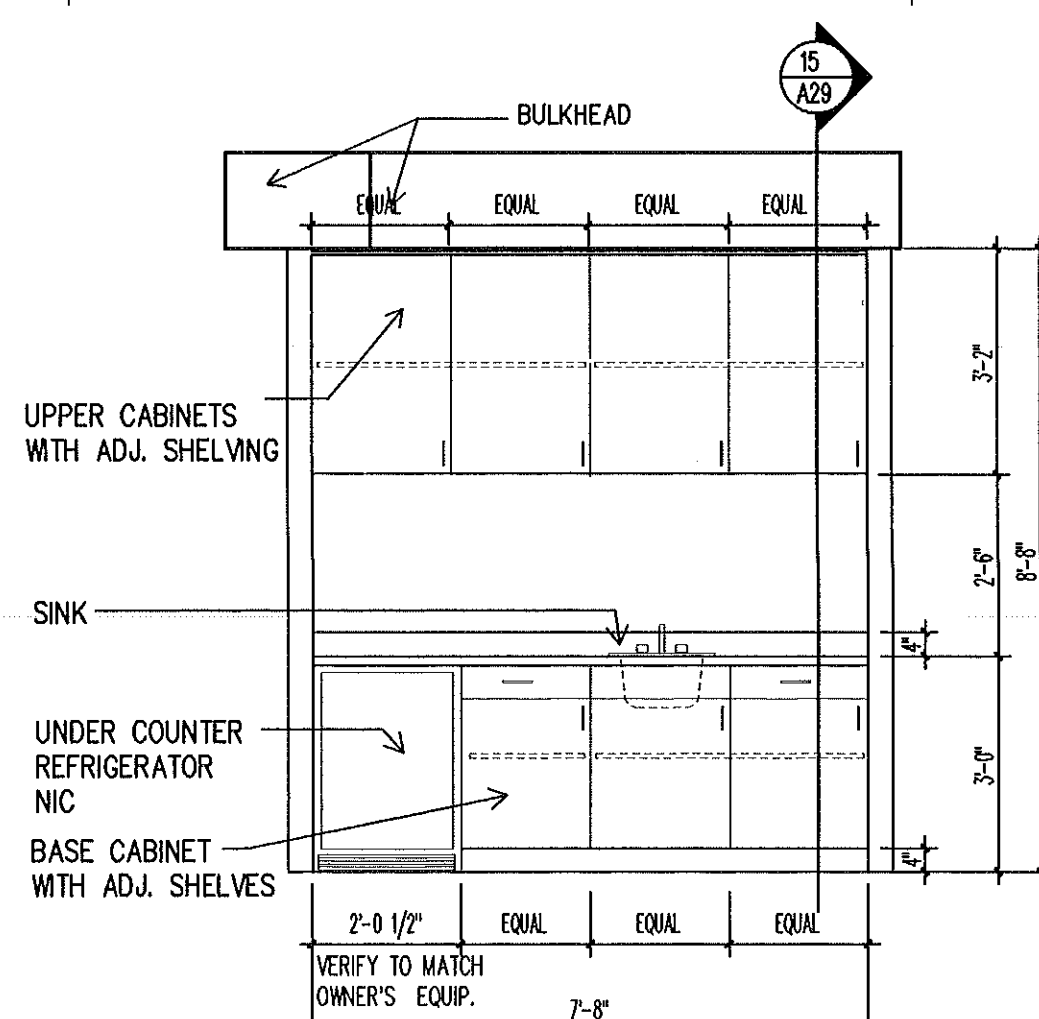
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sheet no. A-28

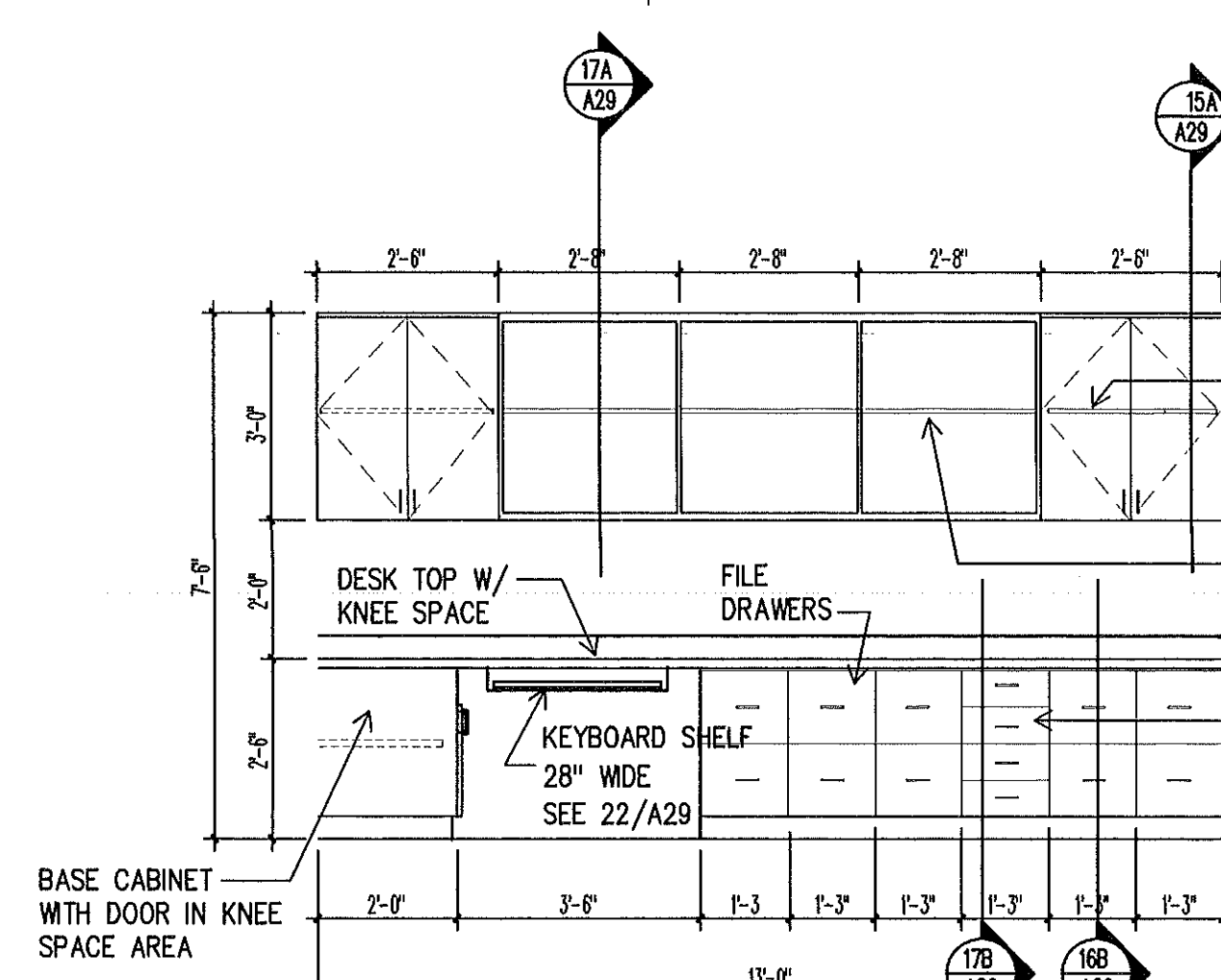
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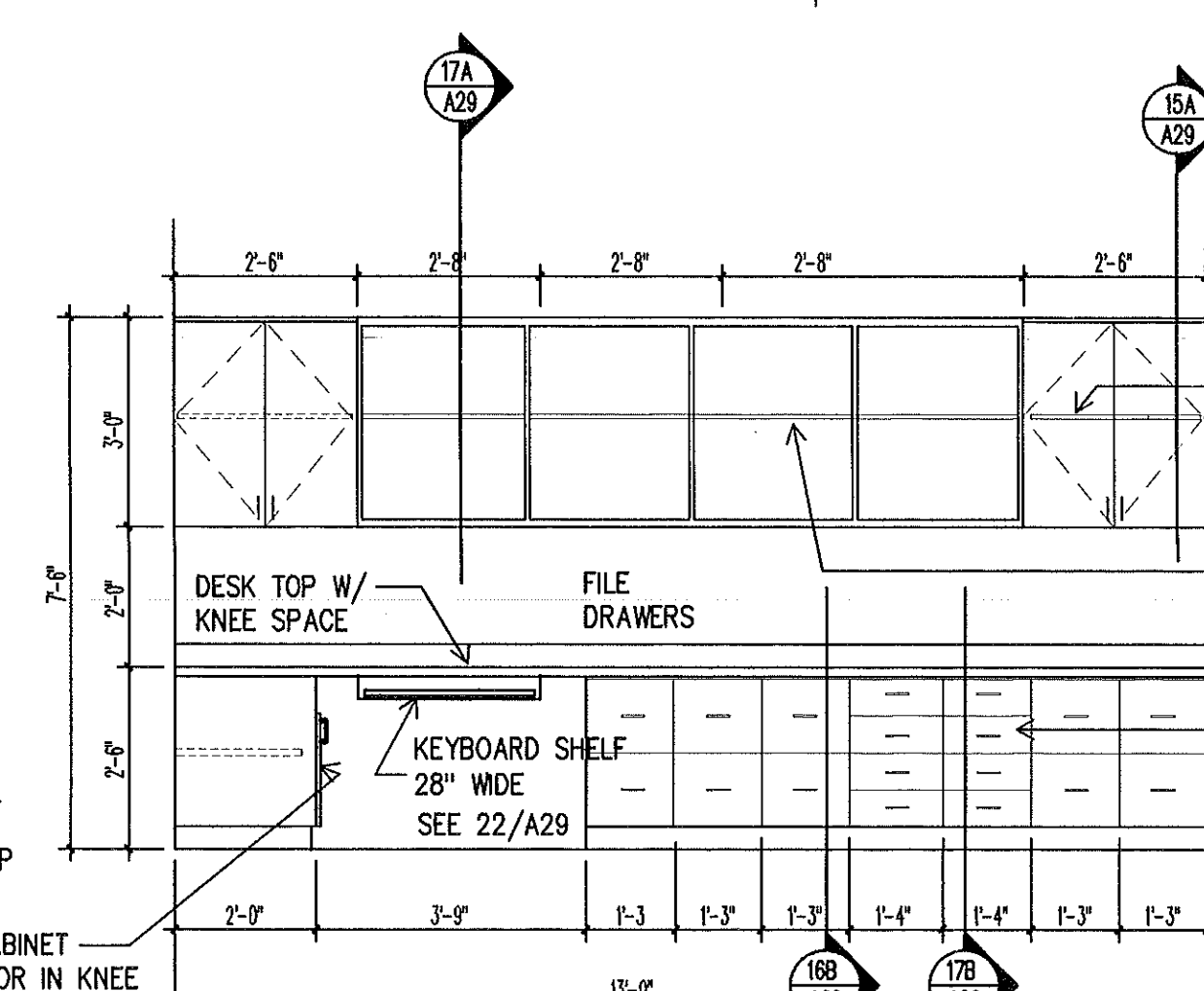
1 MILLWORK AT WAITING 103
A28 3/8" = 1'-0"



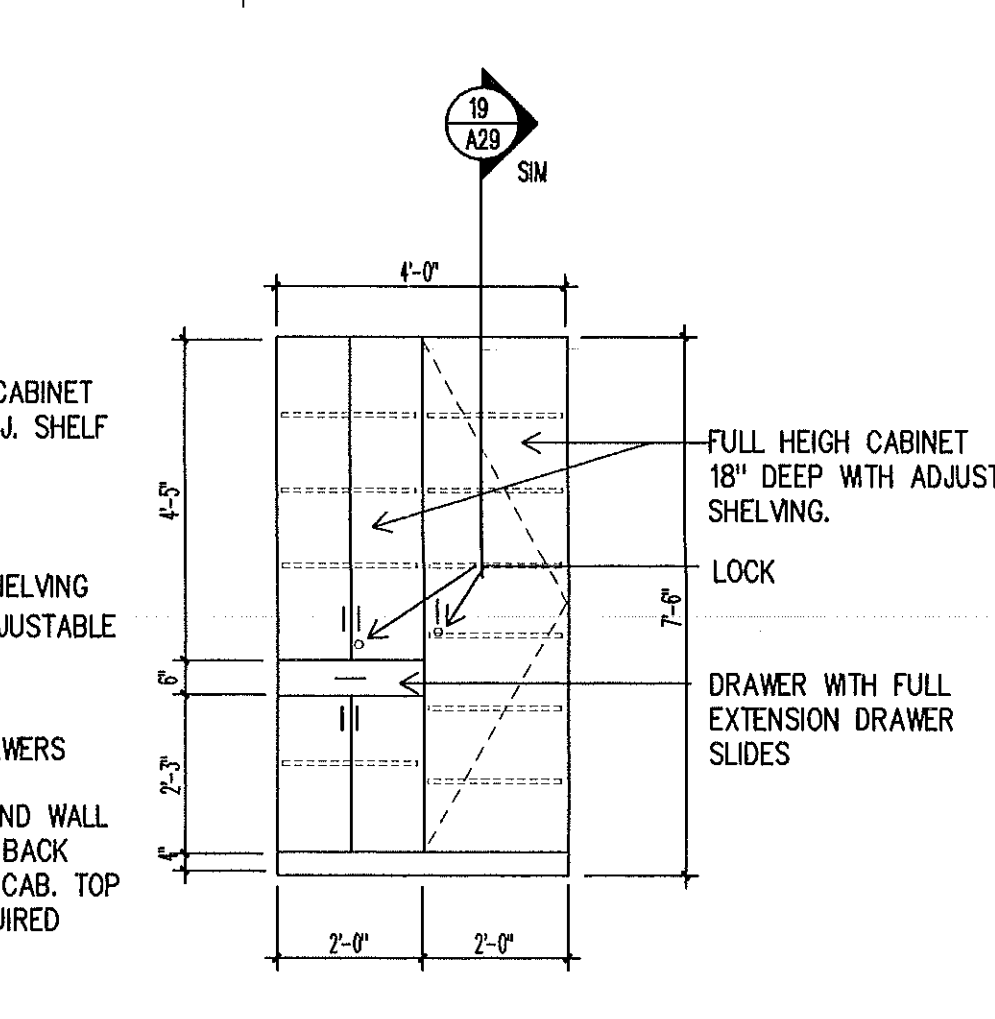
2 MILLWORK AT WORK ROOM 108
A28 3/8" = 1'-0"



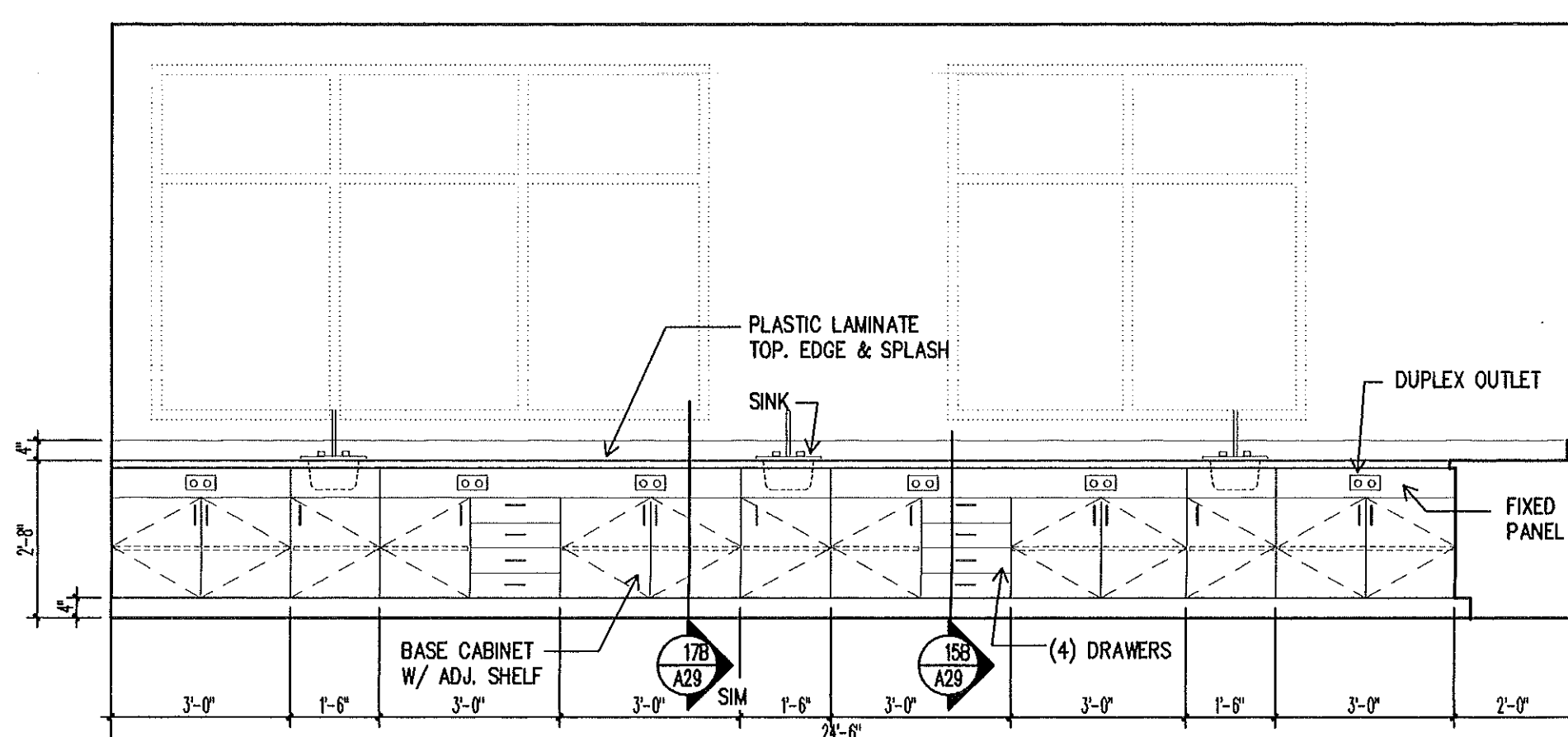
3 MILLWORK AT ROOM 105
A28 3/8" = 1'-0"



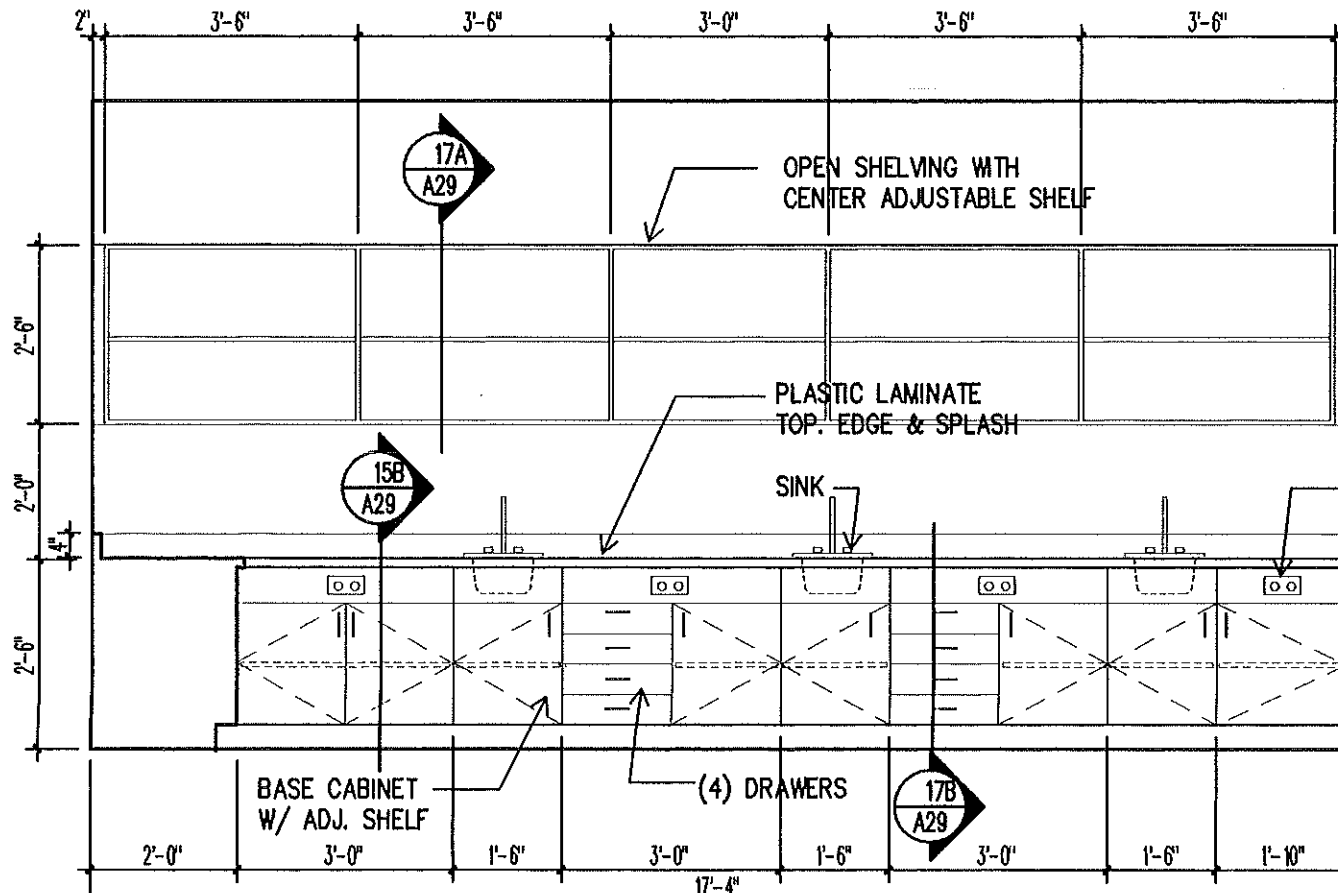
4 MILLWORK AT ROOM 106
A28 3/8" = 1'-0"



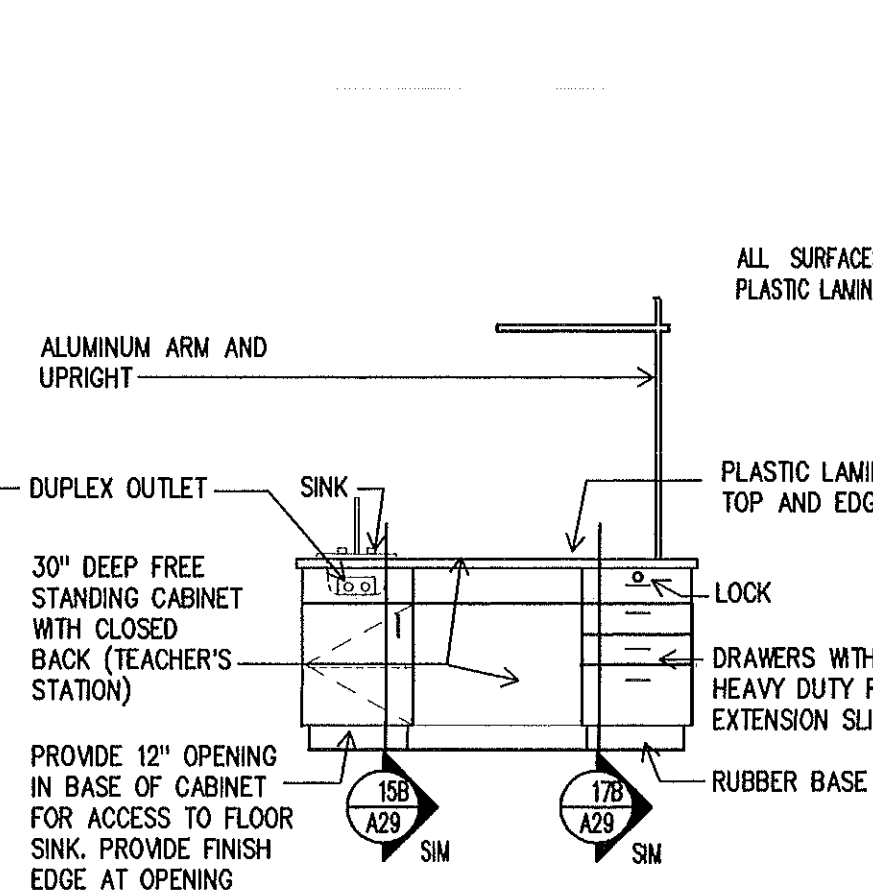
5 MILLWORK AT ROOM 113
A28 3/8" = 1'-0"



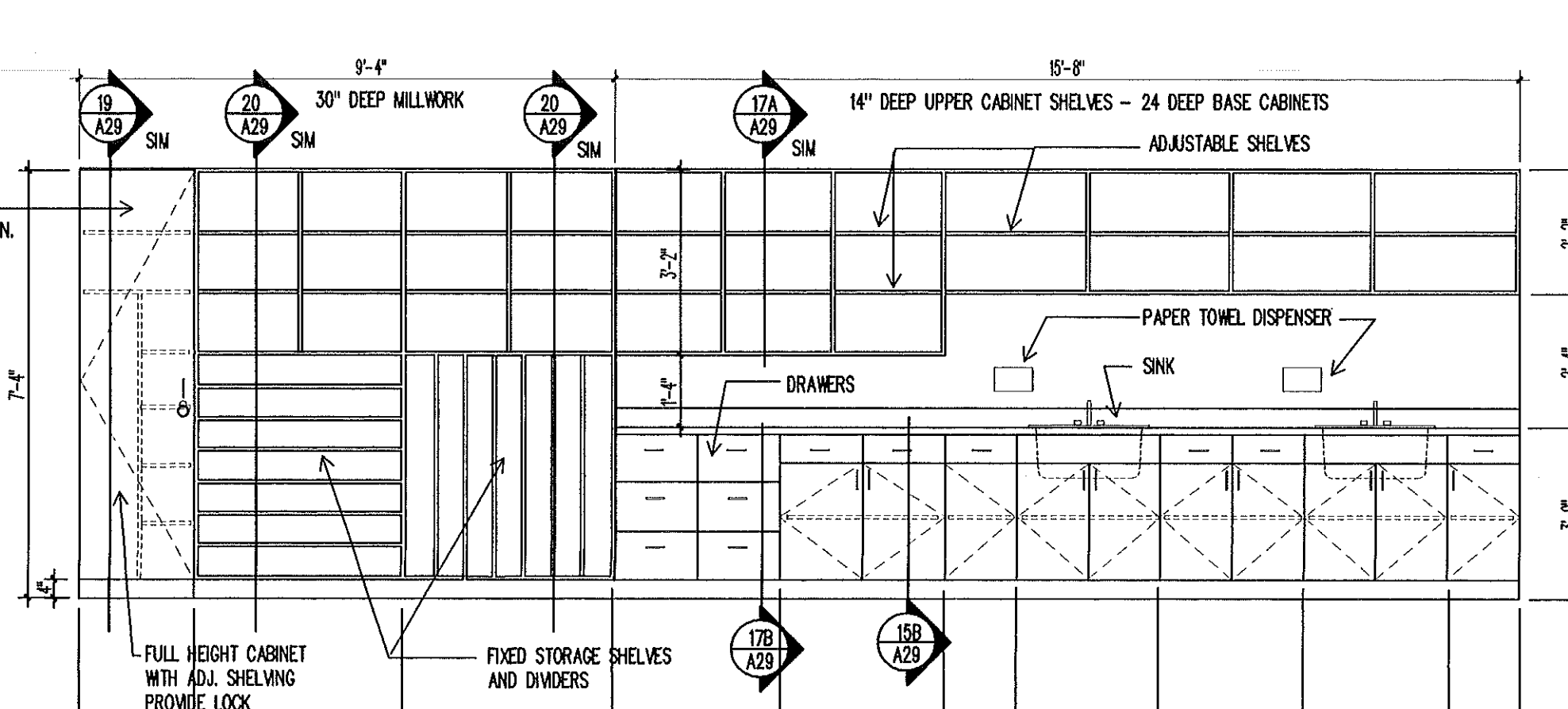
6 MILLWORK AT ROOMS 212, 214, 312, 314, 412, 414
A28 3/8" = 1'-0"



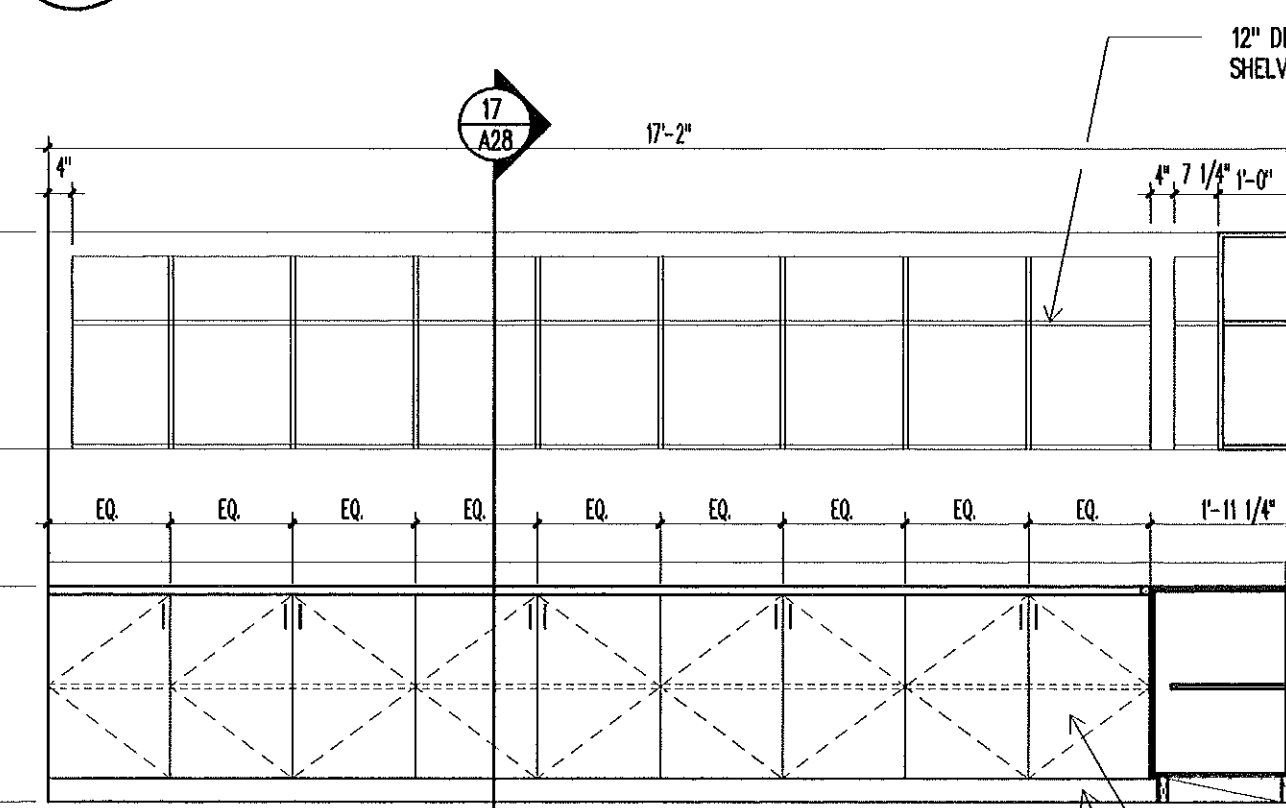
7 MILLWORK ELEVATION
A28 3/8" = 1'-0"



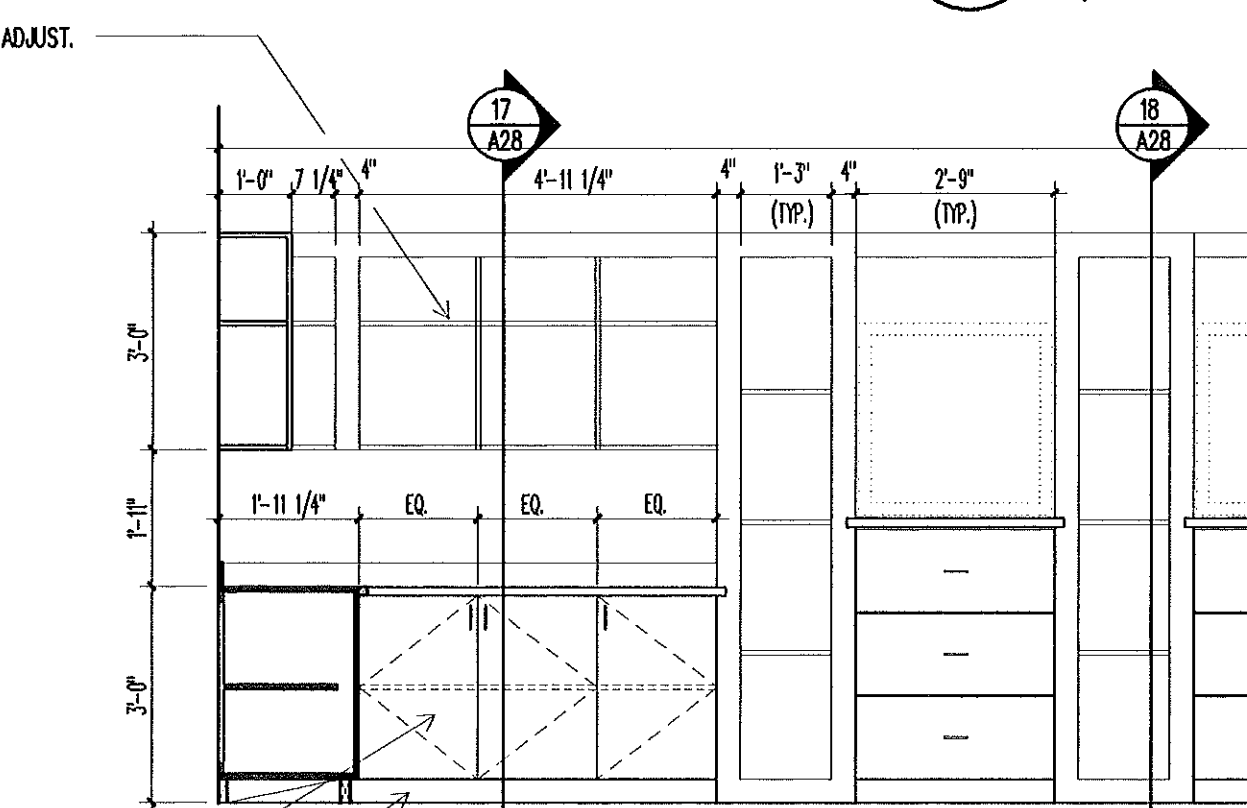
8 TEACHER'S STATION
A28 3/8" = 1'-0"



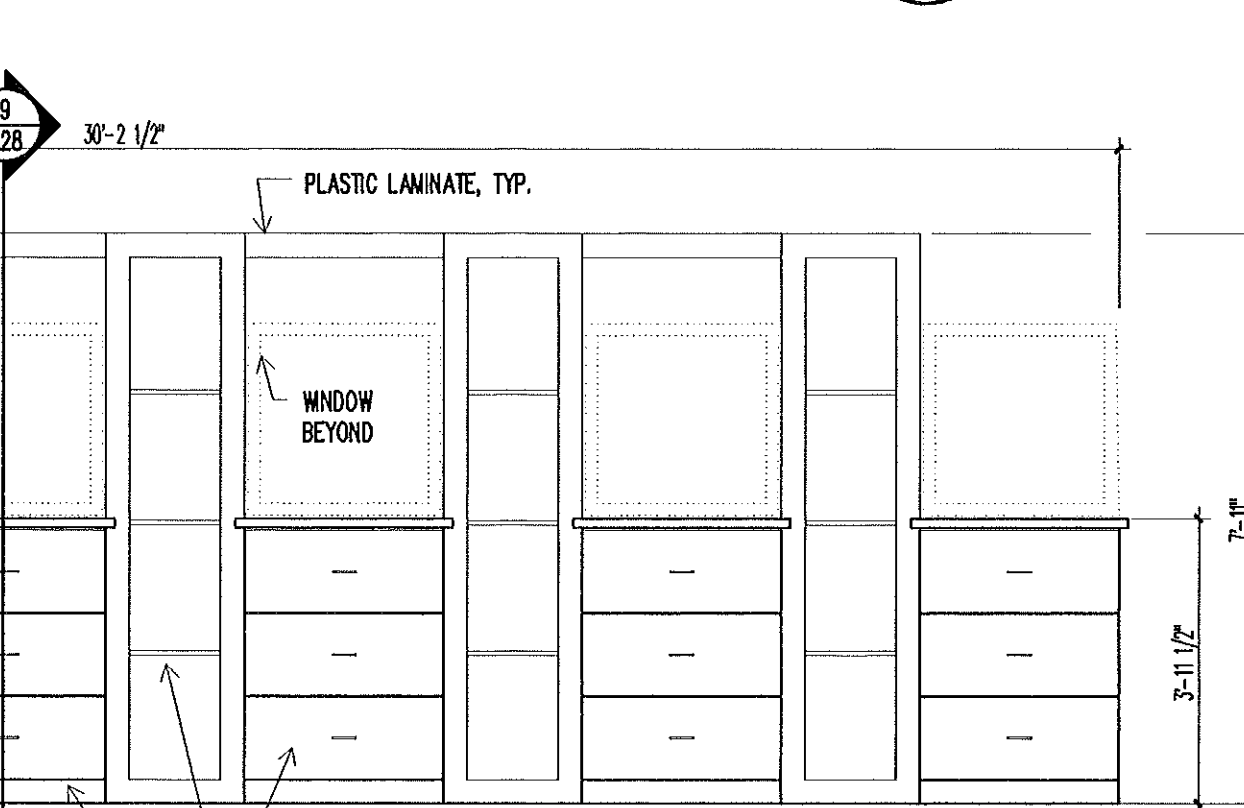
9 MILLWORK AT ROOM 501
A28 3/8" = 1'-0"



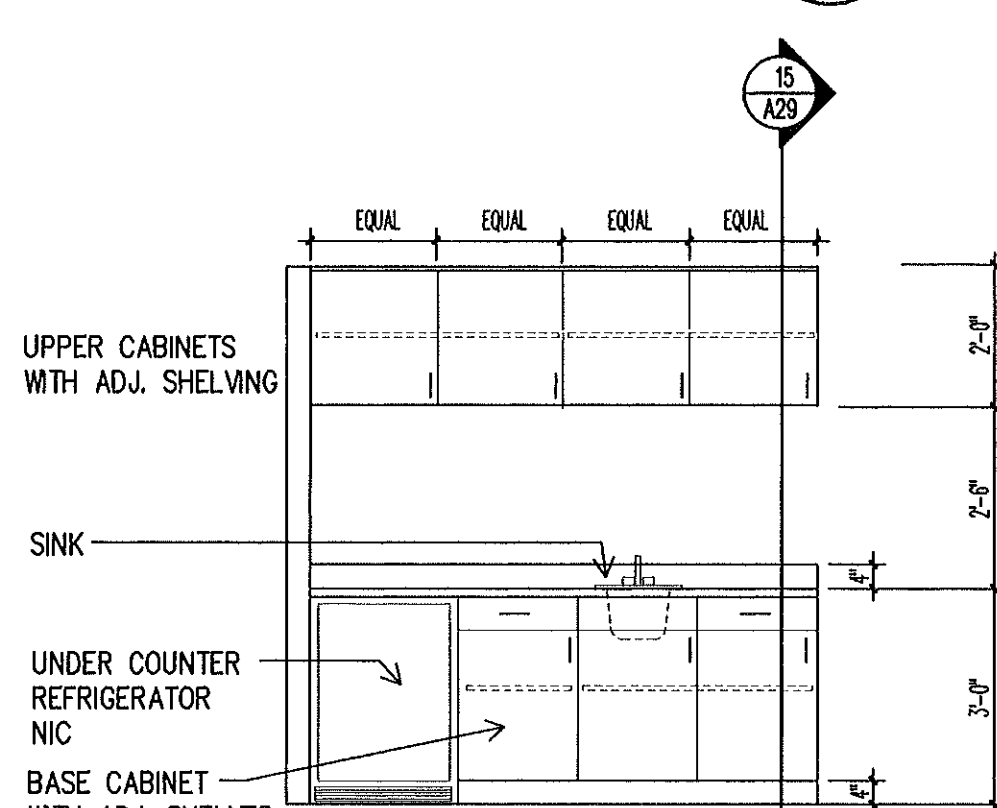
10 VOC. ED. STORAGE UNITS
A28 3/8" = 1'-0"



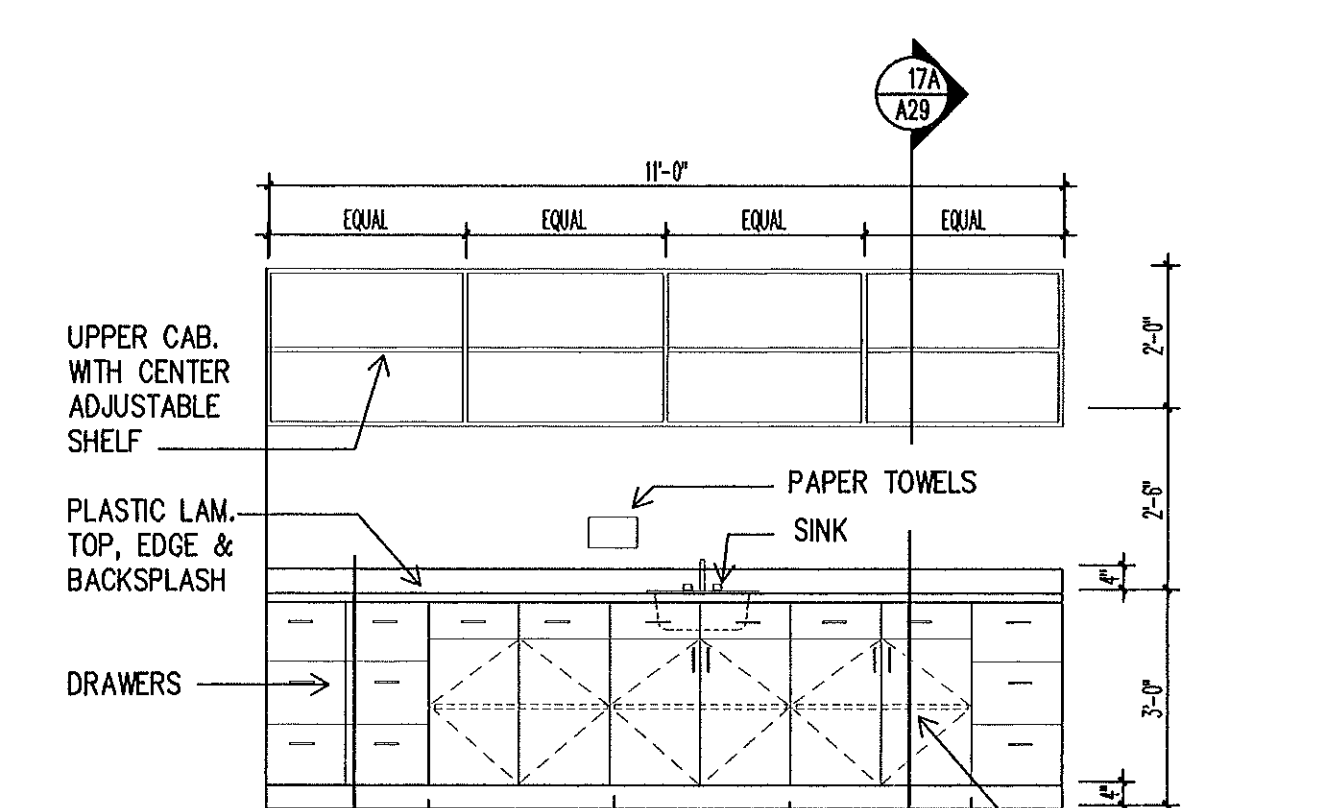
11 VOC. ED. STORAGE UNITS
A28 3/8" = 1'-0"



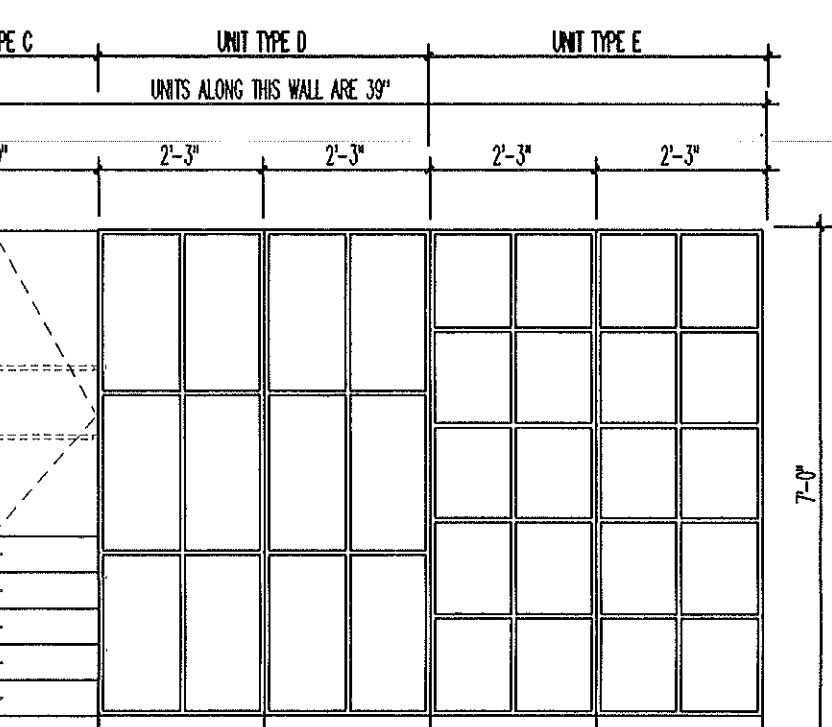
12 MILLWORK ROOMS 217, 317, 417
A28 3/8" = 1'-0"



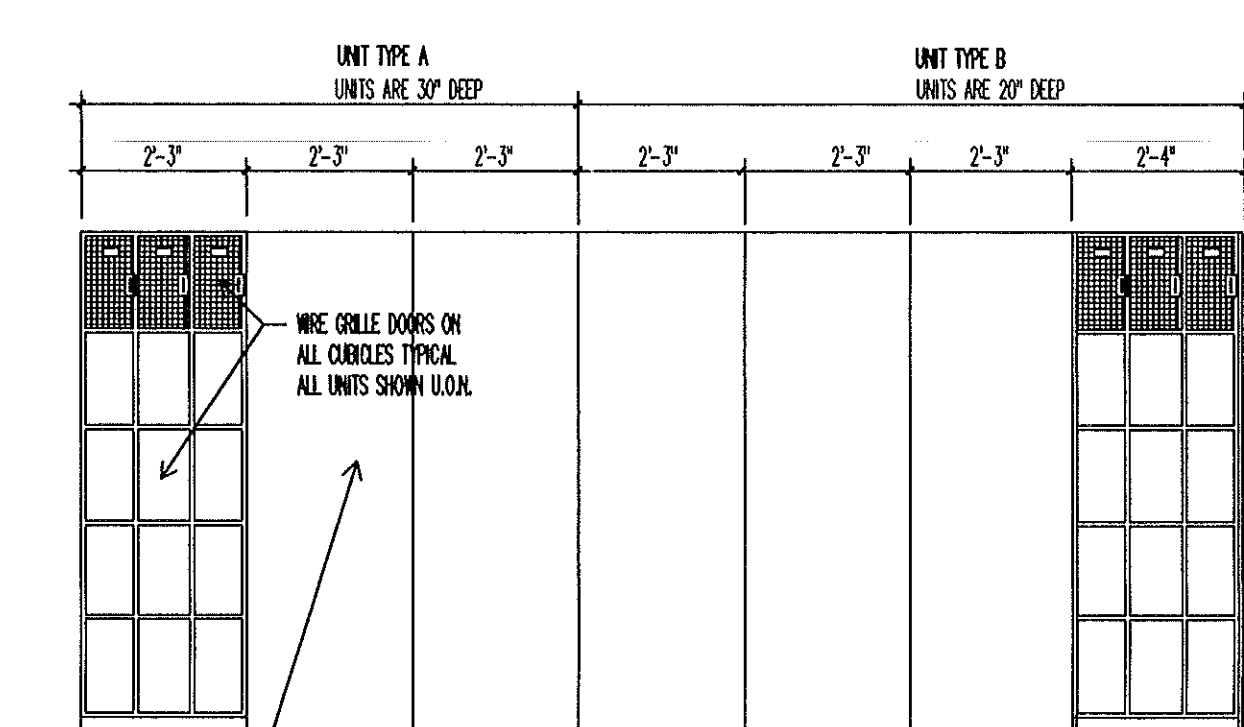
13 MILLWORK AT ROOM 605
A28 3/8" = 1'-0"



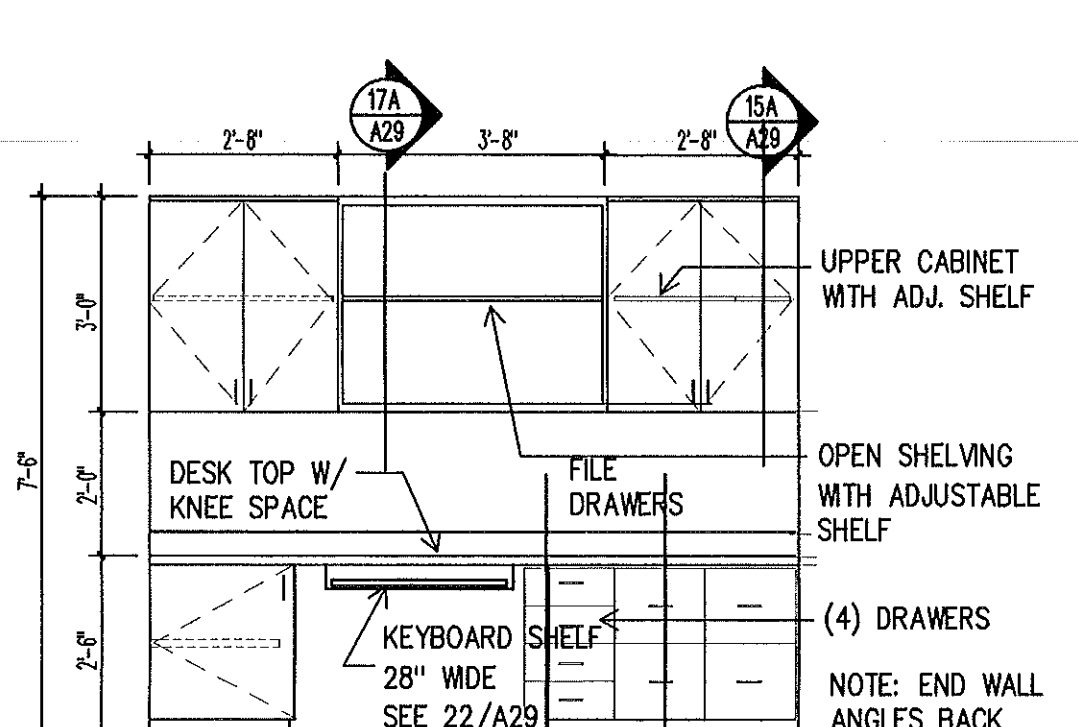
14 MUSIC STORAGE UNITS
A28 3/8" = 1'-0"



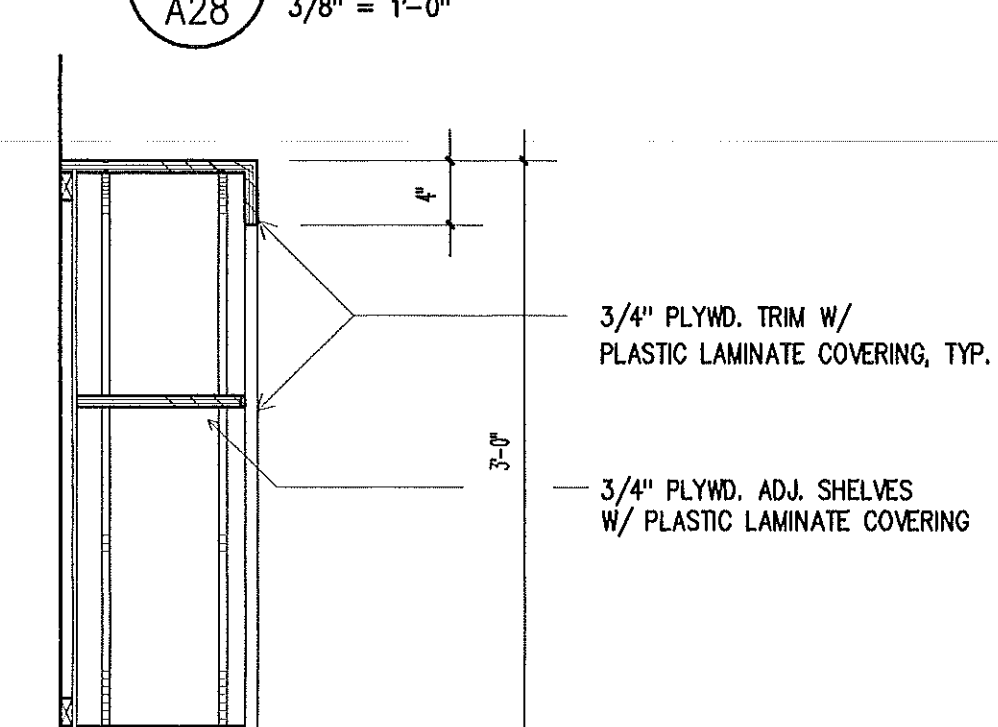
14 MUSIC STORAGE UNITS
A28 3/8" = 1'-0"



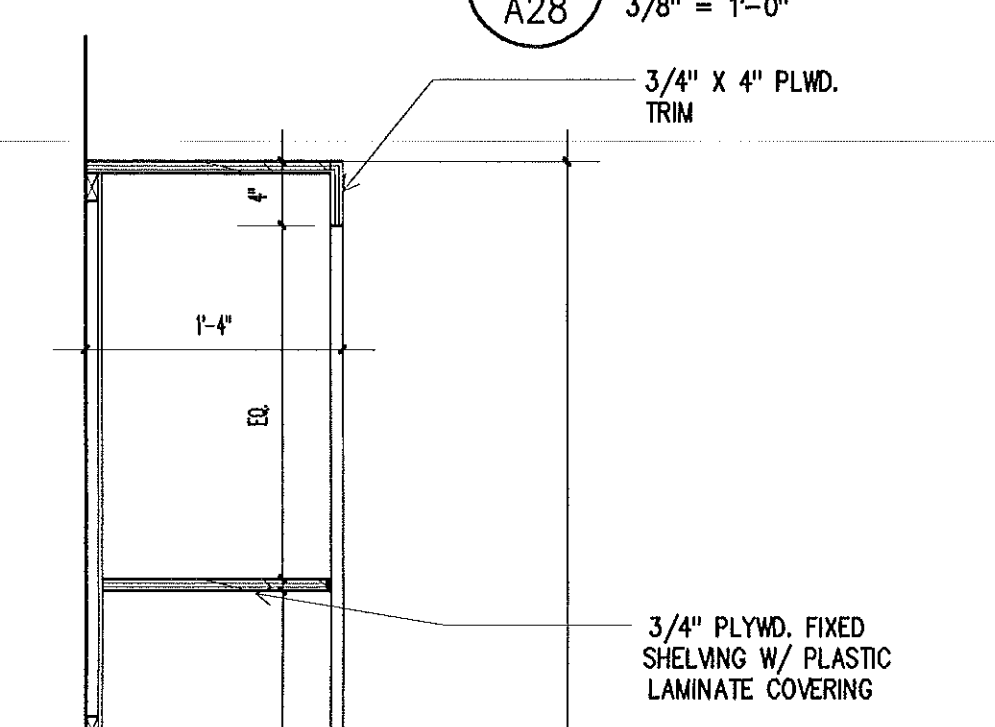
15 MUSIC STORAGE UNITS
A28 3/8" = 1'-0"



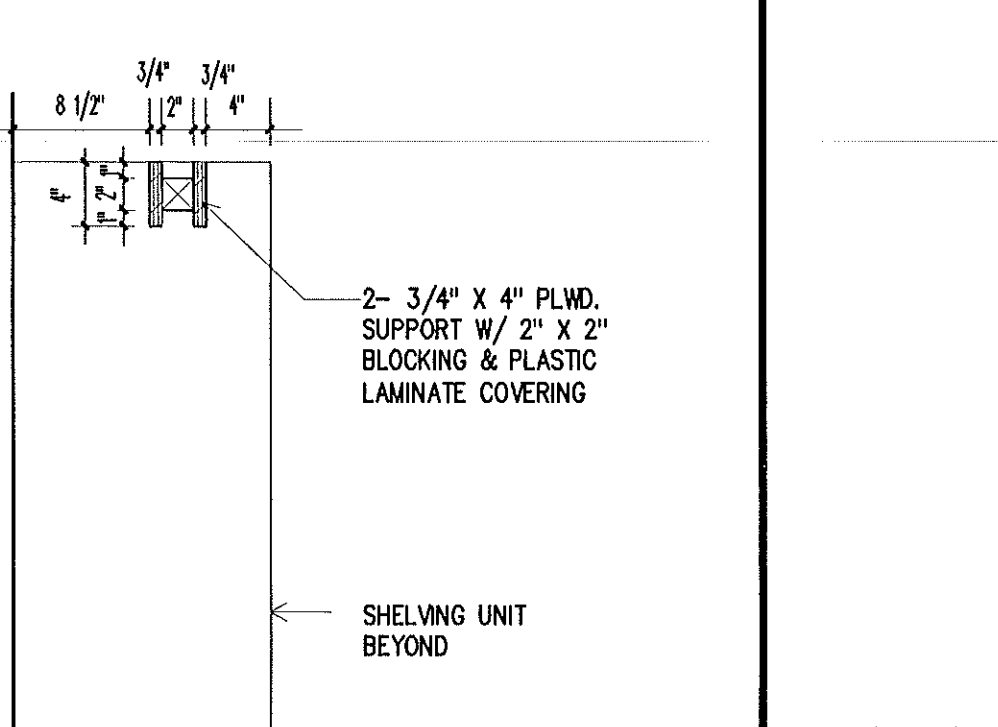
16 MILLWORK AT ROOM 109
A28 3/8" = 1'-0"



17 CABINET SECTION
A-28 1" = 1'-0"



18 CABINET SECTION
A-28 1" = 1'-0"

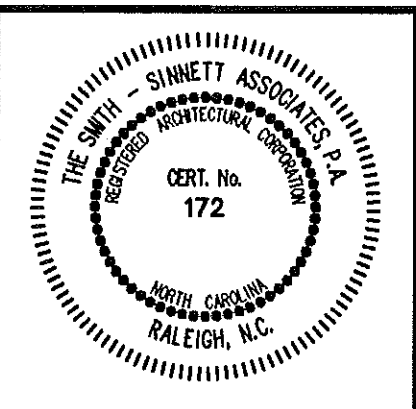


19 CABINET SECTION
A-28 1" = 1'-0"

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Revisions

New Havelock Middle School

Craven County
North Carolina

project title

MILLWORK ELEVATIONS

MILLWORK SECTIONS

sheet title

scale:

F9502.01

project no.

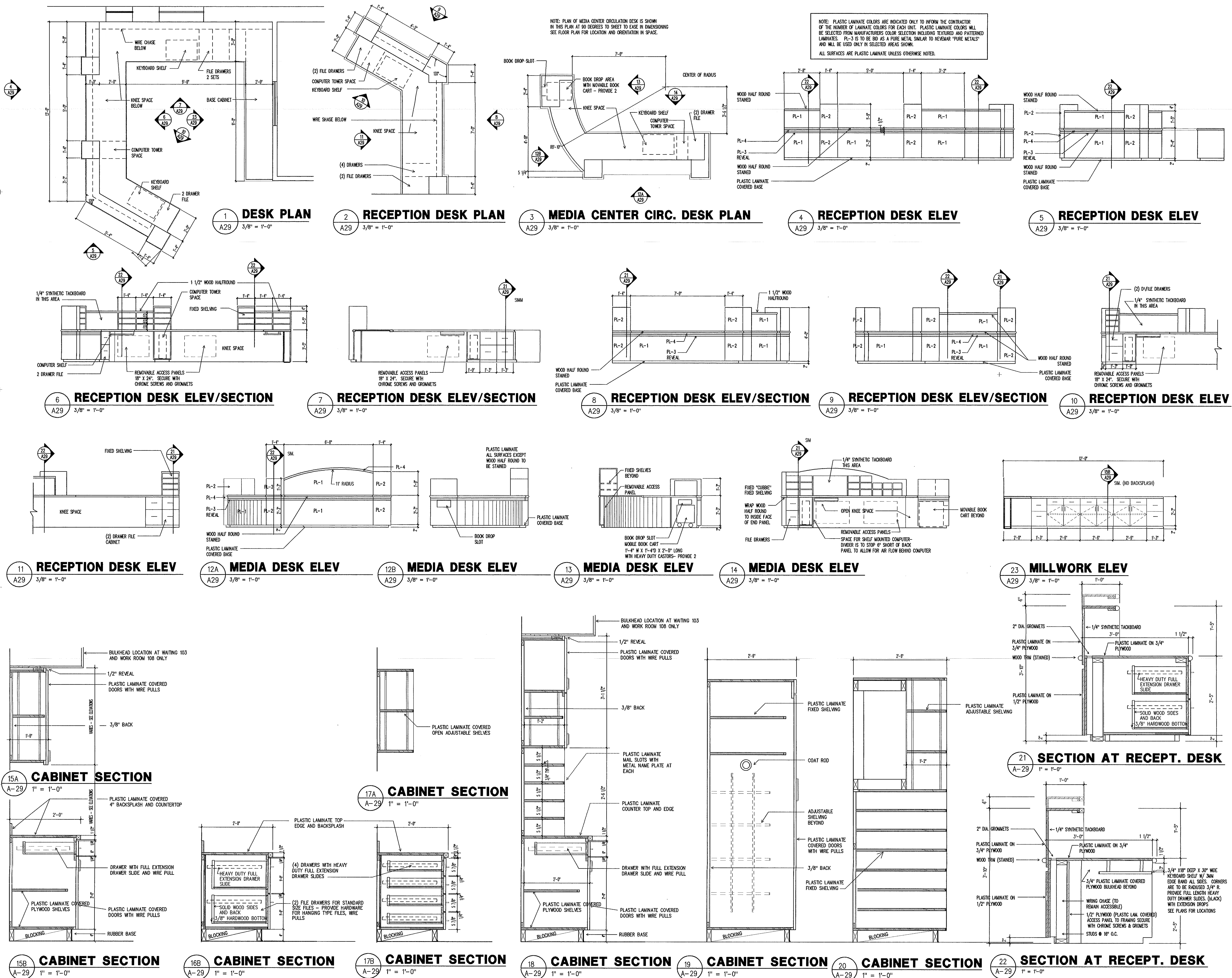
sheet no. **29** of: **43**

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date

A-29

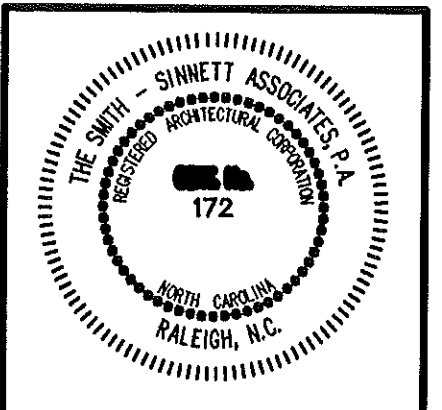
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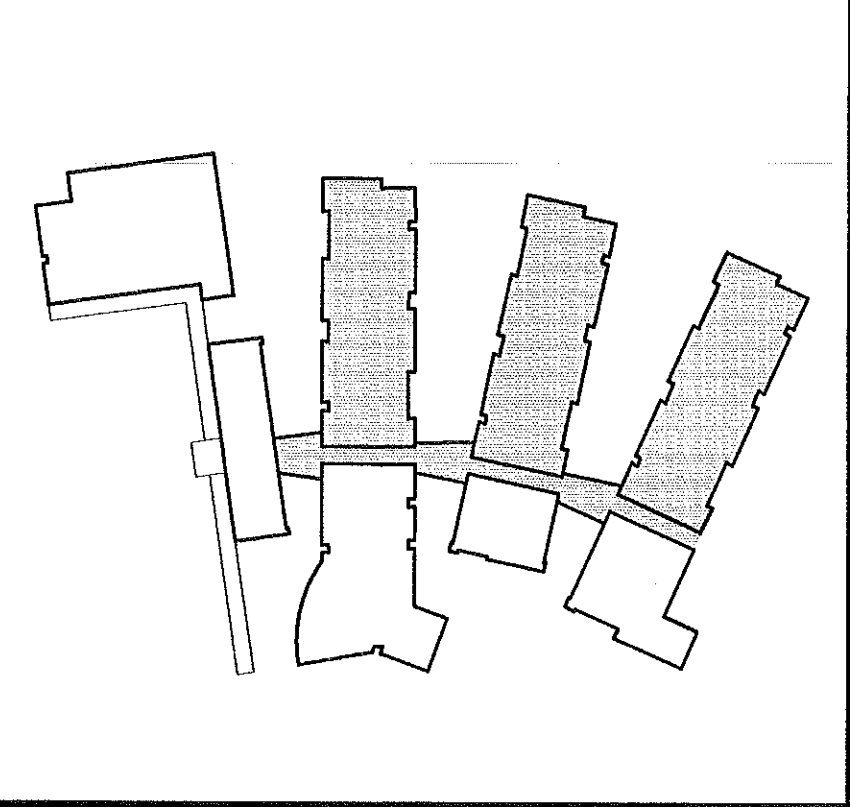
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New Havelock Middle School

Craven County
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FLOOR PATTERNS
CLASSROOM WINGS AND COMMONS AREAS

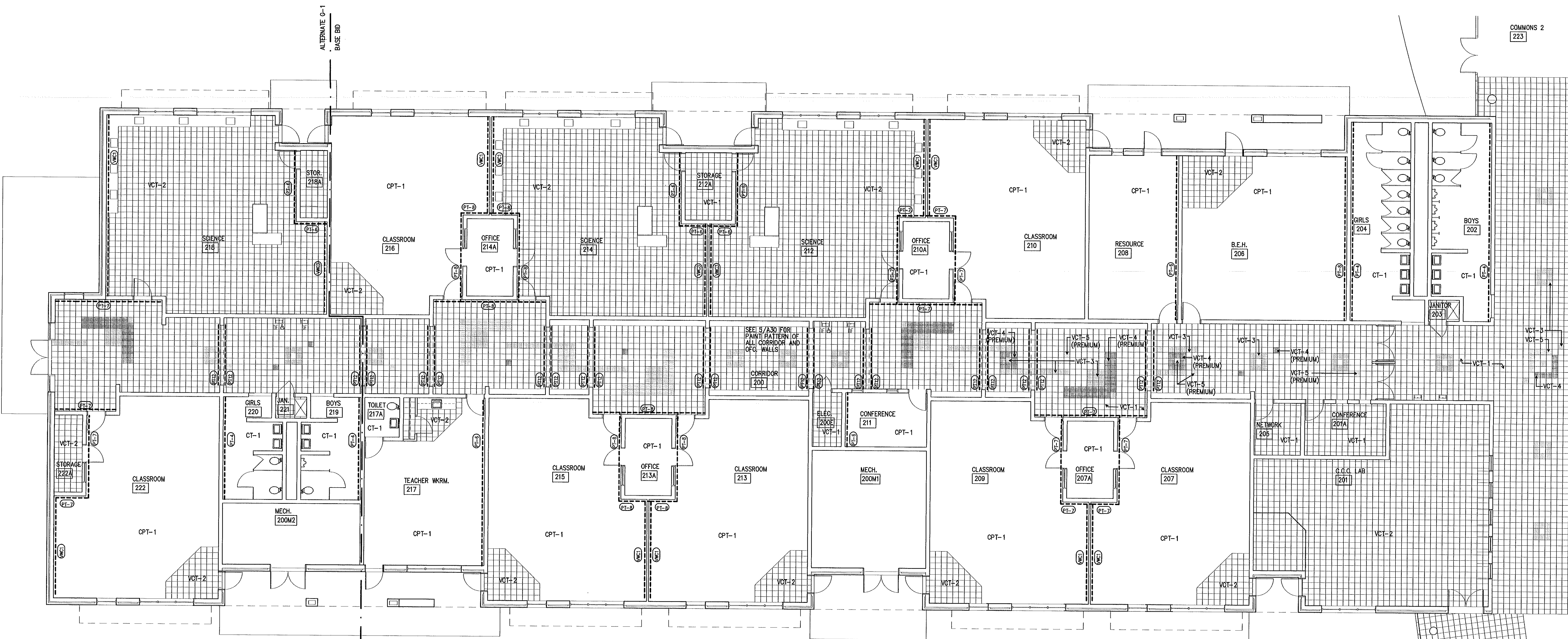
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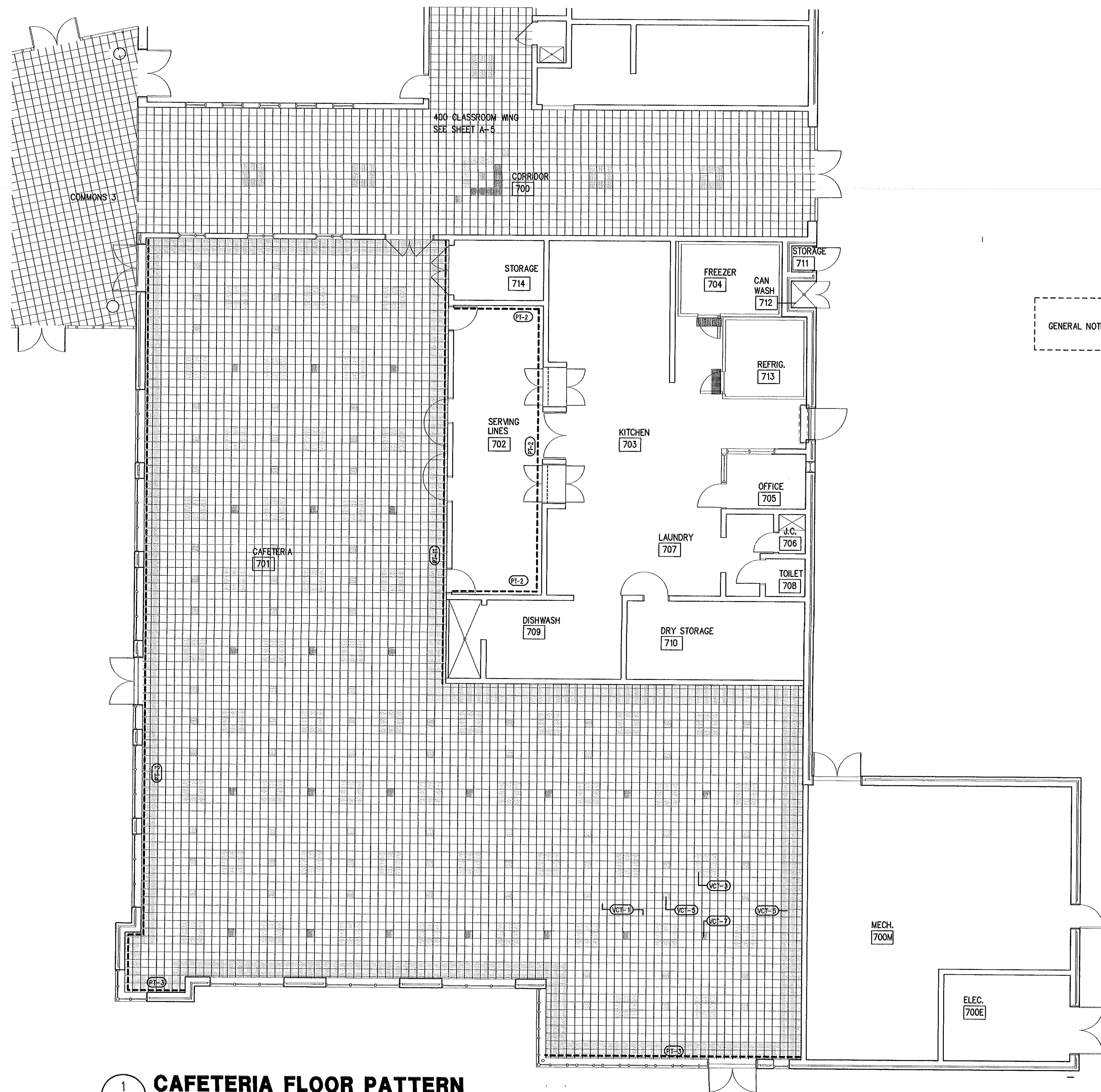
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1/15/98
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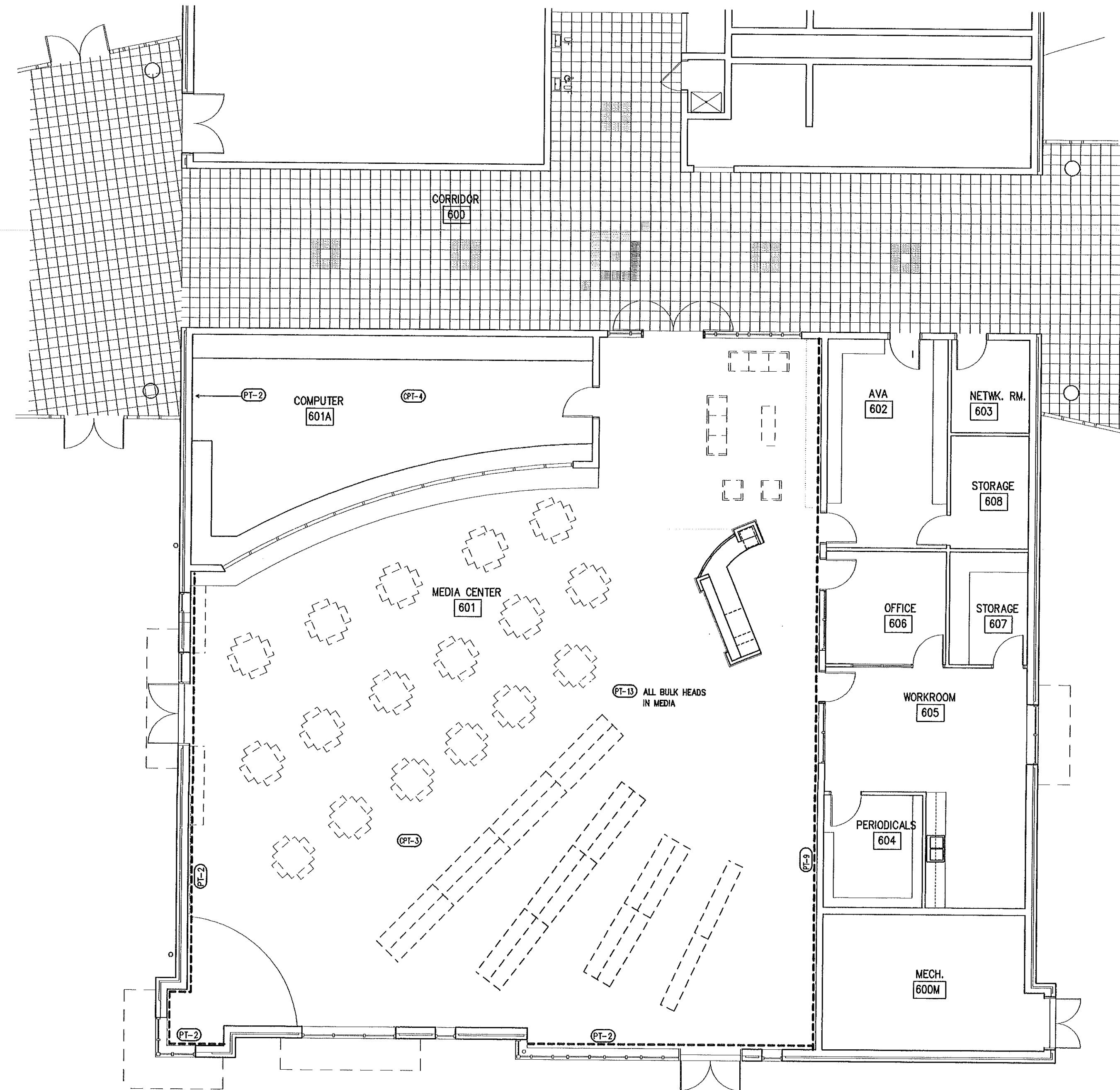
sheet no. 30 of 43

sheet no. A-30

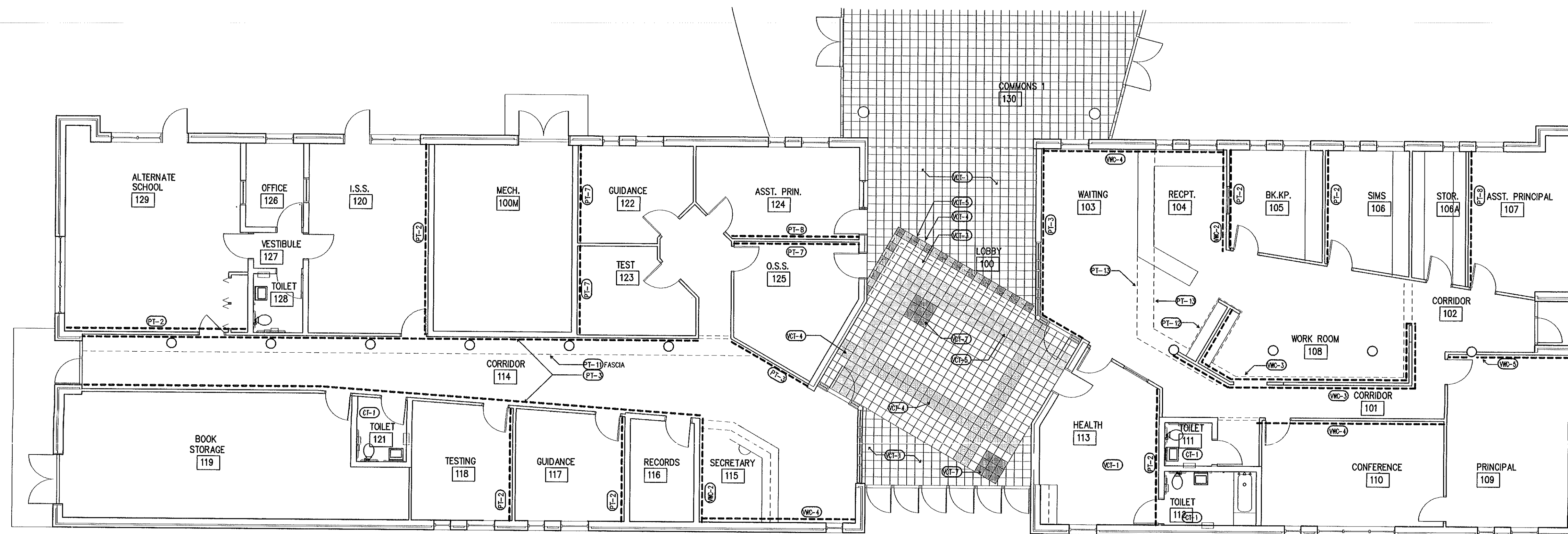




1 **CAFETERIA FLOOR PATTERN**
A-31 1/8" = 1'-0"



2 **MEDIA FLOOR PATTERN**
A-31 1/8" = 1'-0"



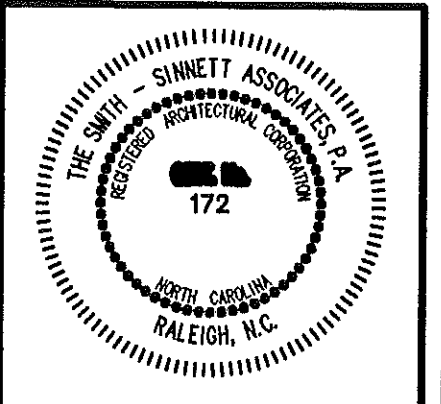
3 **ADMINISTRATION FLOOR PATTERN**
A-31 1/8" = 1'-0"

CE-2 CARPET CE-2 THROUGHOUT ENTIRE ADMINISTRATION WING U.O.N. - SEE FINISH SCHEDULE, SHEET A-25

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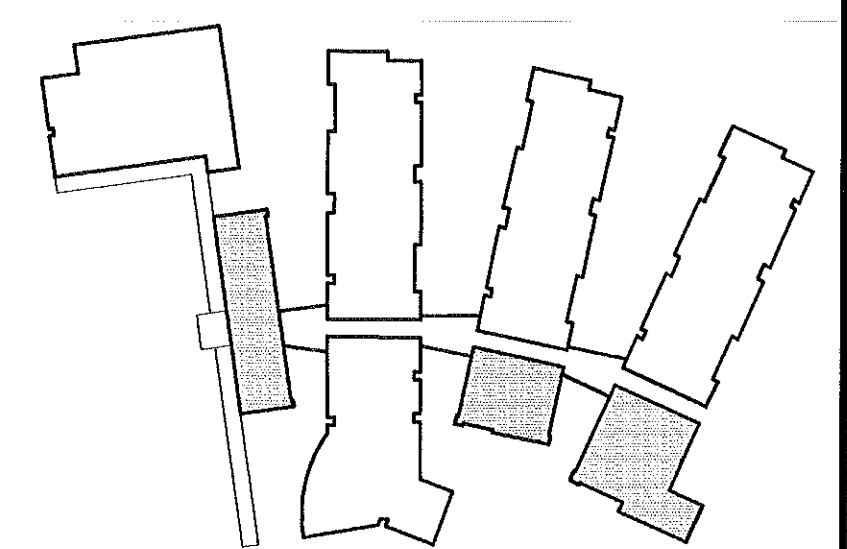
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Project Engineer: **LFC**
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New Havelock Middle School

Craven County
North Carolina

project title

FLOOR PATTERNS
ADMINISTRATION, MEDIA, CAFETERIA

sheet title scale:

F9502.01

project no.

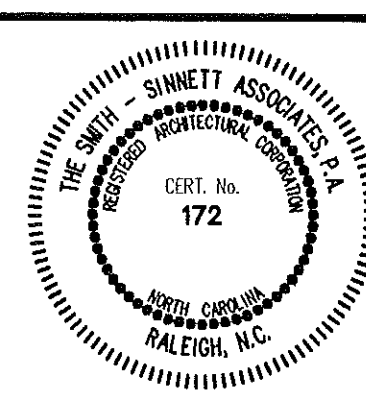
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01/15/98

date

sheet no. **A-31**

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Project Engineer: **LFC, DVC**
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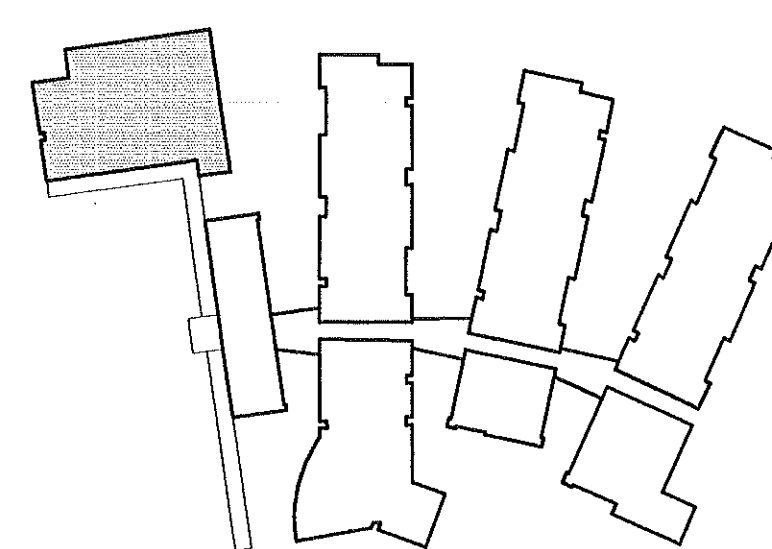
RECORD DRAWING



6-8-98

no. description date

Revisions



New Havelock Middle School

Craven County
North Carolina

project title

GYMNASIUM
FLOOR PLAN

sheet title

scale:

F9502.01

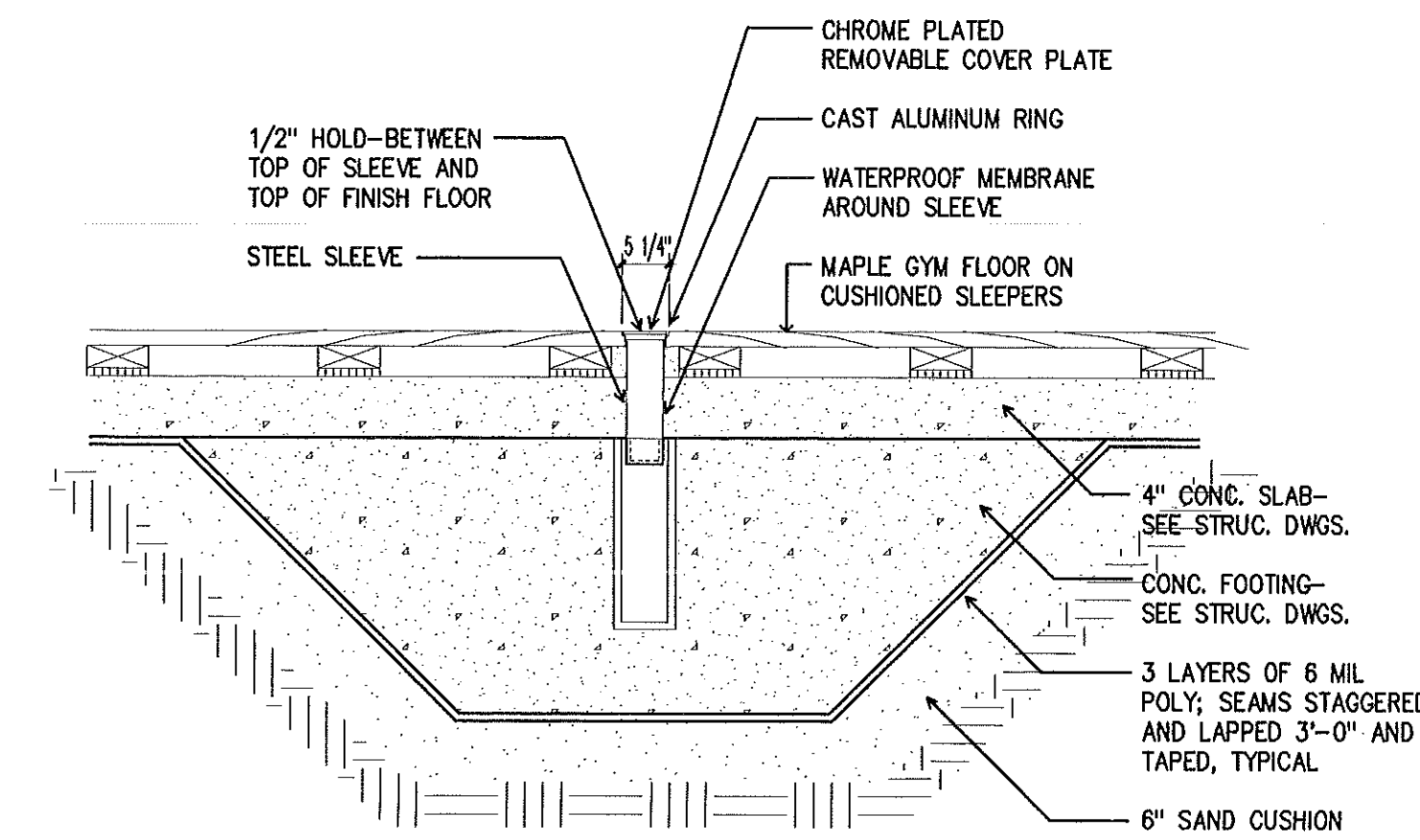
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sheet no. 32 of 43

01/15/98

date

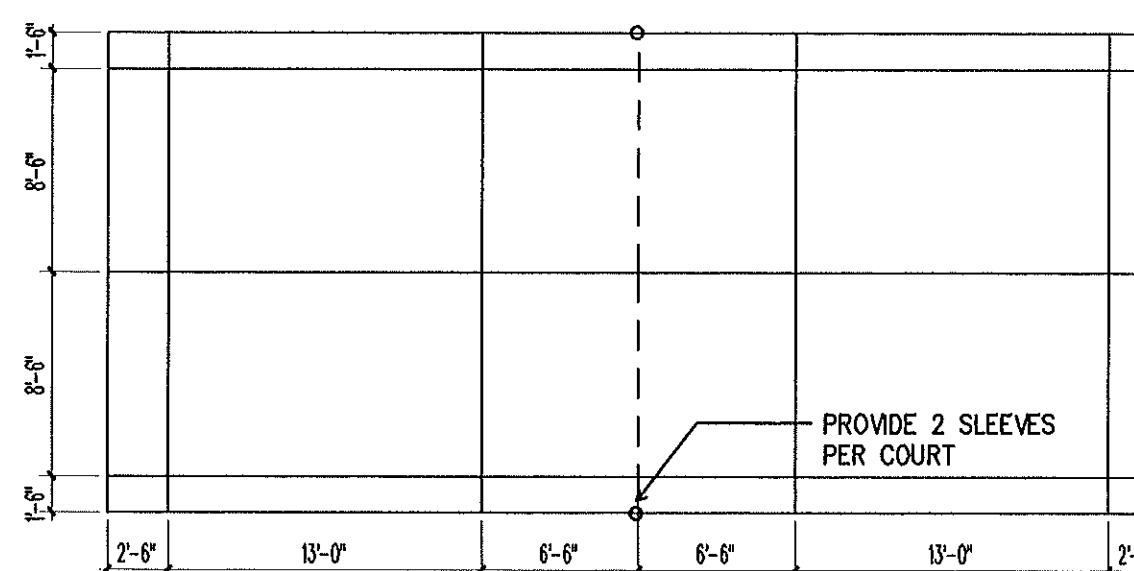
sheet no. **A-32**



3 FLOOR SLEEVE DETAIL

1/8" = 1'-0"

NOTE: INSTALL SLEEVE AS PER MANUFACTURER'S RECOMMENDATIONS



4 BADMINTON STRIPING

1/8" = 1'-0"

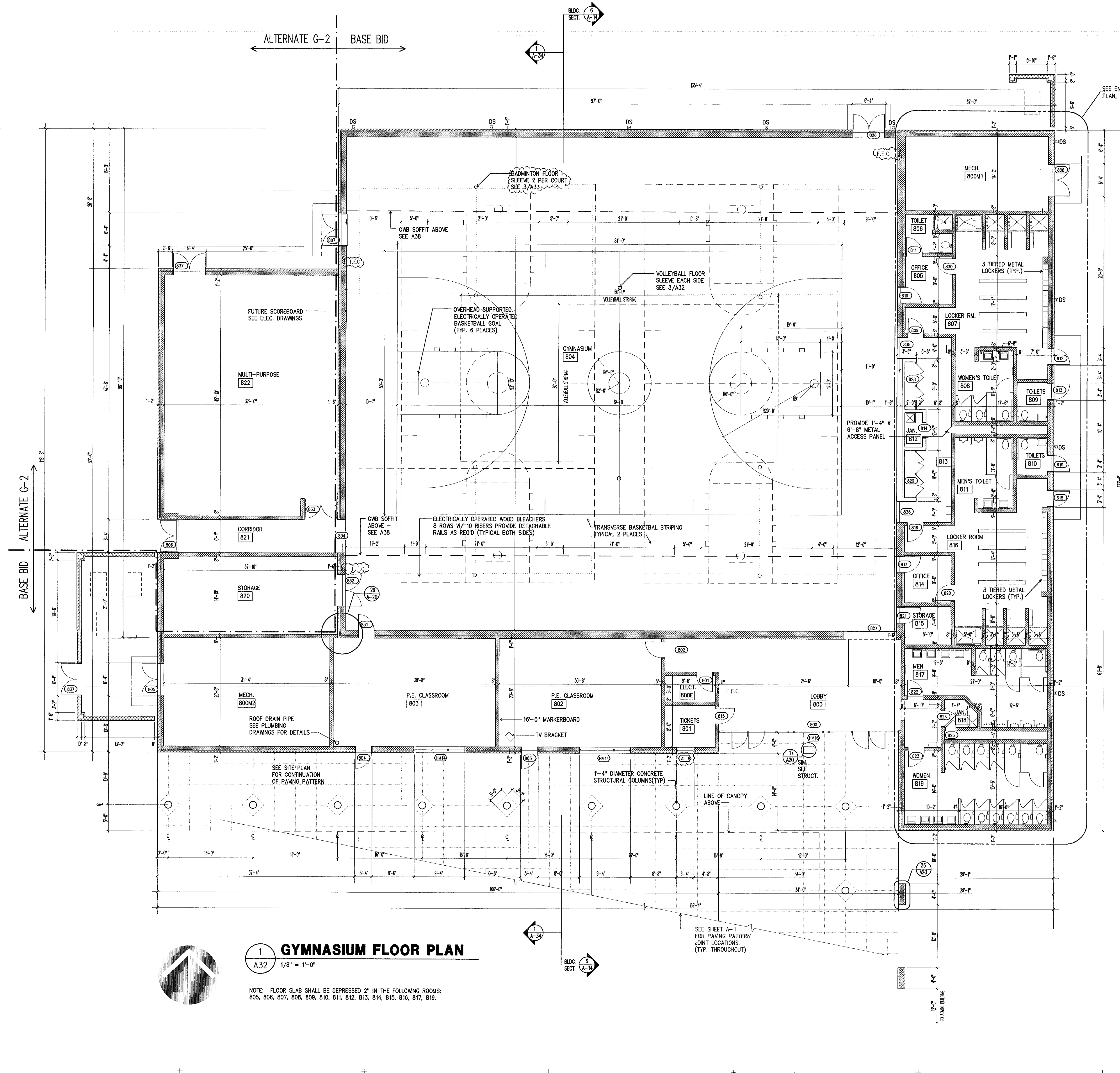
PROVIDE 4 BADMINTON COURTS AS DIRECTED BY THE ARCHITECT

GYMNASIUM FLOOR STRIPING LAYOUT NOTES

1. ALL STRIPING SHALL BE 2" WIDE.
2. ALL STRIPING DIMENSIONS ARE TO BE MEASURED FROM THE INSIDE EDGE OF THE STRIP.
3. ALL COURT DIMENSIONS ARE TO MEET NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS) REGULATIONS.
4. FULL COURT BASKETBALL STRIPING SHALL BE POSITIONED AS SHOWN. CENTERLINE OF BASKETBALL COURT SHALL BE USED AS CENTERLINE FOR VOLLEYBALL COURT. OTHER STRIPING DIMENSIONS ARE AS SHOWN ON STRIPING LAYOUT.
5. COLOR OF ALL STRIPING IS TO BE SELECTED BY ARCHITECT PRIOR TO INSTALLATION.

GENERAL NOTES

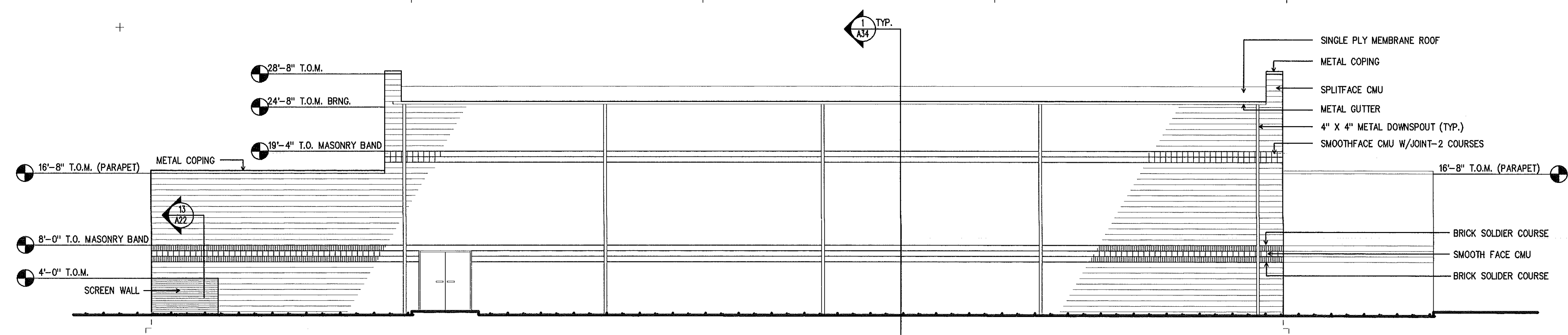
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL MASONRY OPENINGS PRIOR TO INSTALLATION OF WINDOWS AND DOORS.
2. PROVIDE SOLID BLOCKING BETWEEN STUDS AND JOISTS TO RECEIVE ALL HARDWARE, ACCESSORIES, CABINETS, ETC.
3. THE GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 FIRE EXTINGUISHERS IN SEMI-RECESSED CABINETS PER BUILDING. THE CABINETS SHALL BE APPROPRIATE FOR THE WALL TYPE THEY ARE MOUNTED IN. LOCATION OF THE FIRE EXTINGUISHERS SHALL BE AS DIRECTED BY THE ARCHITECT.
4. ALL WALLS IN GYMNASIUM, UNLESS NOTED OTHERWISE, ARE CMU MASONRY TO THE MOOTS INDICATED. ALL INTERIOR MASONRY WALLS EXTEND TO 10'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. DIMENSIONS ARE TO FACE OF MASONRY.
5. SEE SHEET A-1 COMPOSITE PLAN AND WALL TYPES PLAN FOR ALL WALL TYPE INFORMATION.
6. THE CONTRACTOR SHALL VERIFY THAT THE STAKING LAYOUT OF THE BUILDING COORDINATES WITH THE ACTUAL LAYOUT OF ROADS, PARKING LOTS, SIDEWALKS, CURB AND GUTTER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH ANY OF THE WORK INVOLVED.



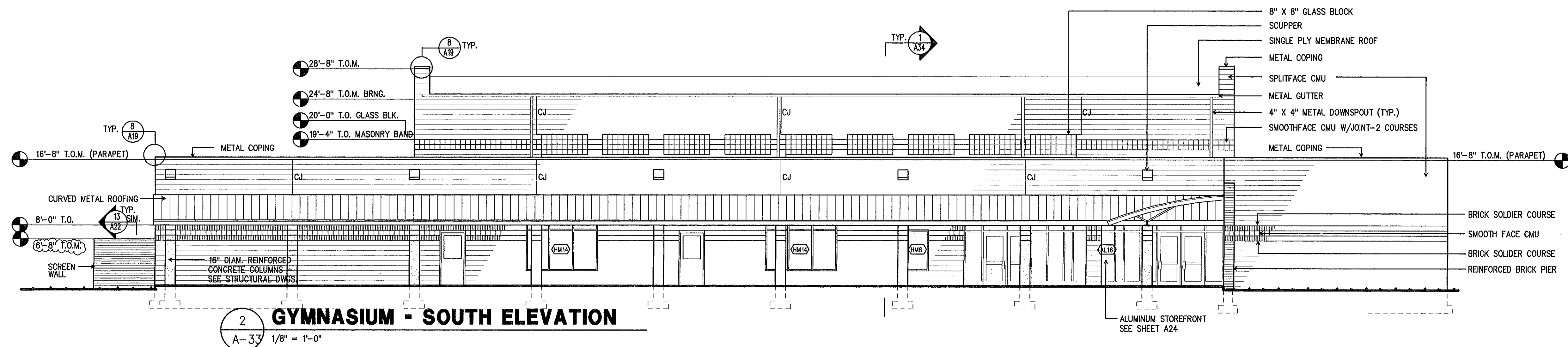
1 GYMNASIUM FLOOR PLAN

1/8" = 1'-0"

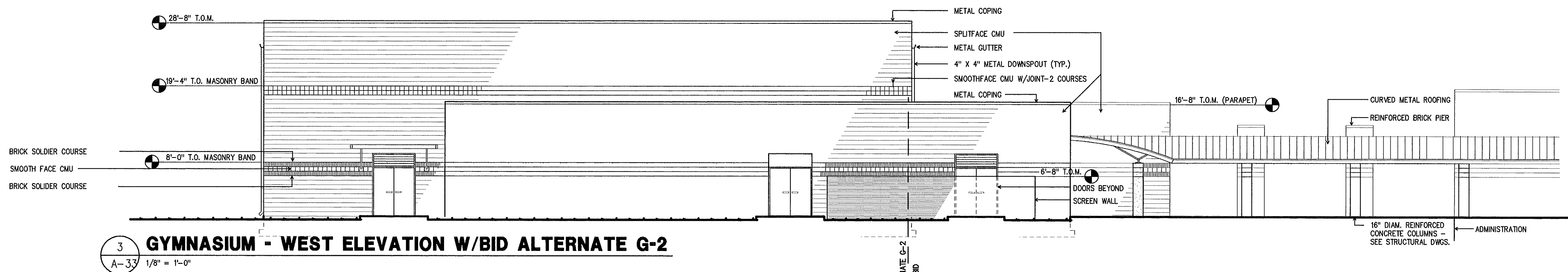
NOTE: FLOOR SLAB SHALL BE DEPRESSED 2" IN THE FOLLOWING ROOMS: 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 819.



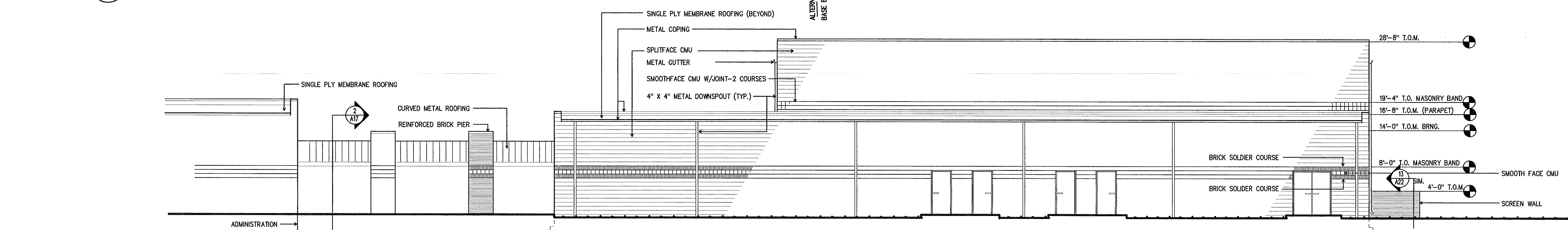
1 **GYMNASIUM - NORTH ELEVATION** (SAME FOR BASE BID AS FOR BID ALTERNATE G-2)
A-33 1/8" = 1'-0"



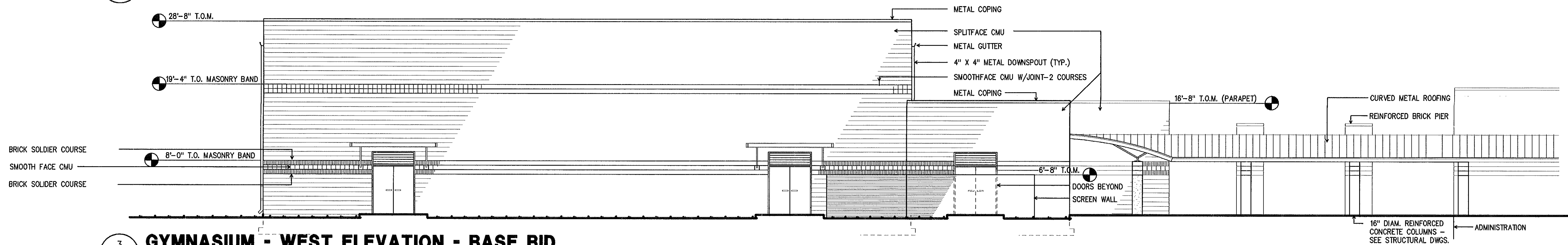
2 **GYMNASIUM - SOUTH ELEVATION**
A-33 1/8" = 1'-0"



3 **GYMNASIUM - WEST ELEVATION W/BID ALTERNATE G-2**
A-33 1/8" = 1'-0"



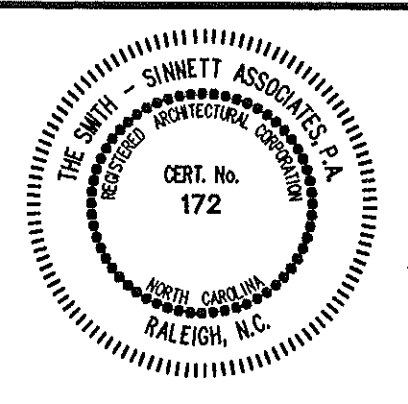
4 **GYMNASIUM - EAST ELEVATION**
A-33 1/8" = 1'-0"



3 **GYMNASIUM - WEST ELEVATION - BASE BID**
A-33 1/8" = 1'-0"

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consultant

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Project Architect: **JFS**
Project Engineer: **LFC**
drawn by: **RA**
checked by:

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DRAWINGS**

no.	description	date
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Revisions

**New Havelock
Middle School**

Craven County
North Carolina

project title

GYMNASIUM ELEVATIONS

sheet title

scale:

F9502.01

project no.

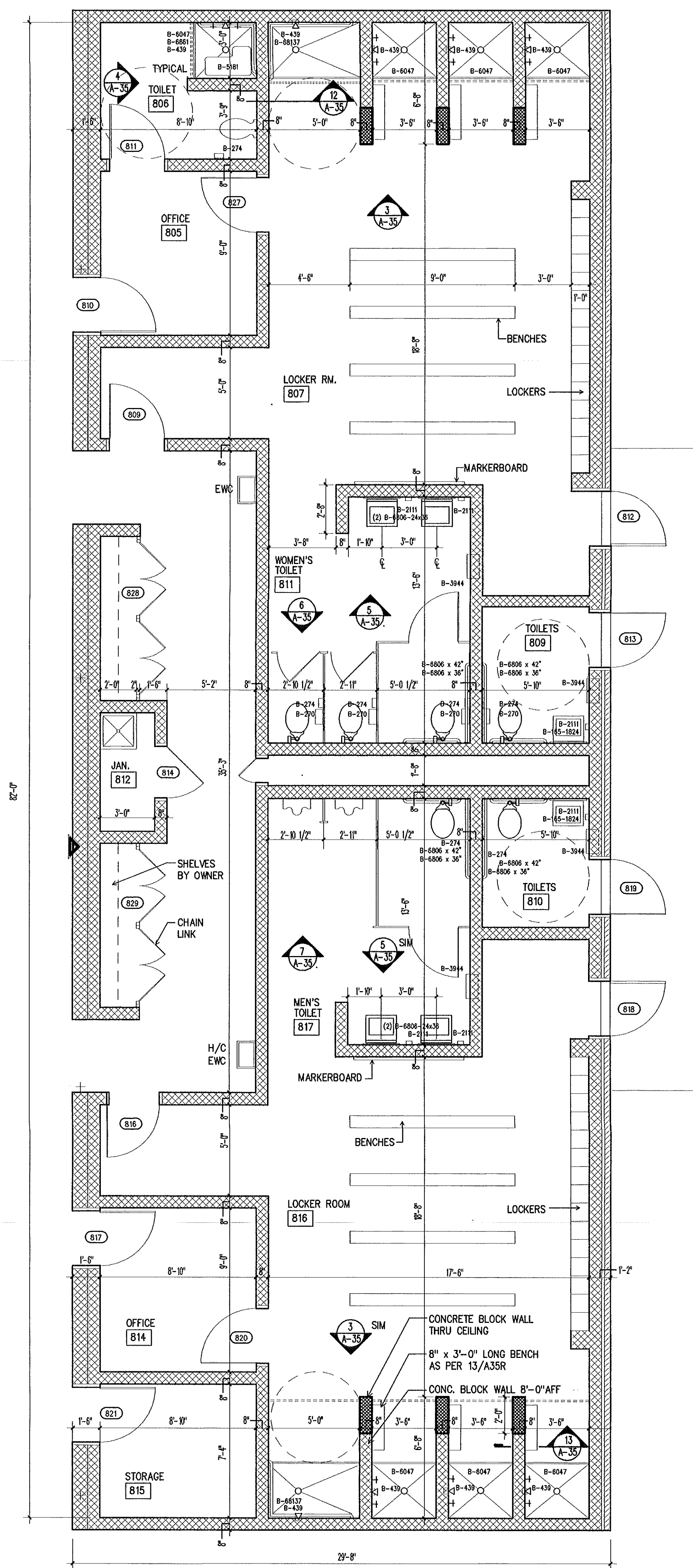
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01/15/98

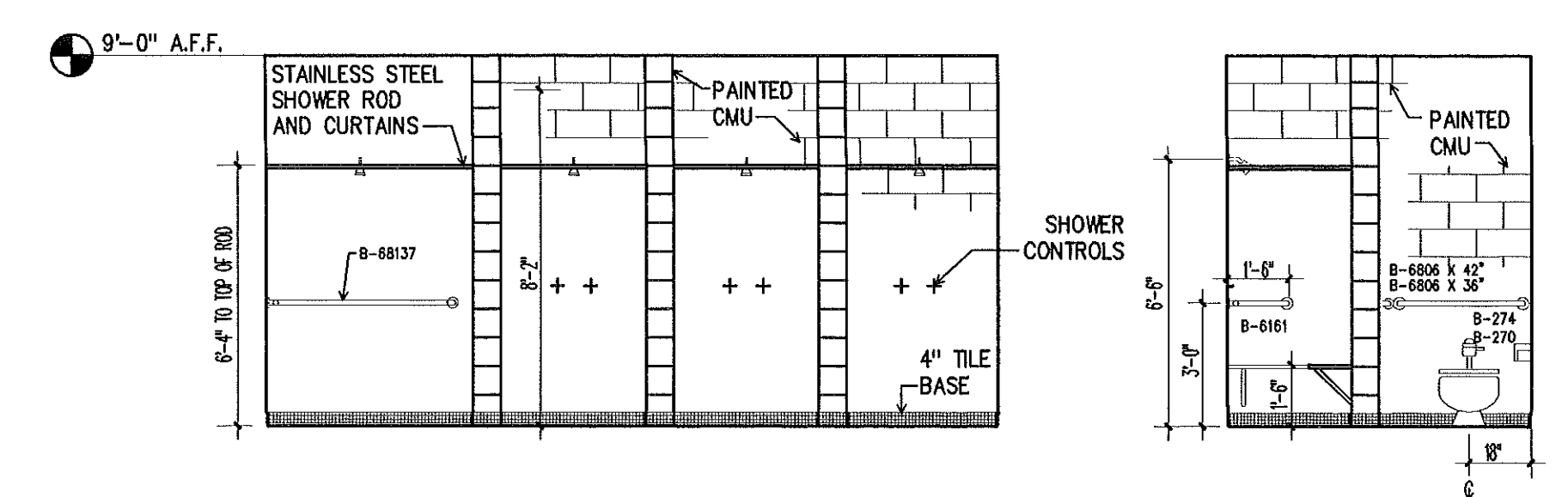
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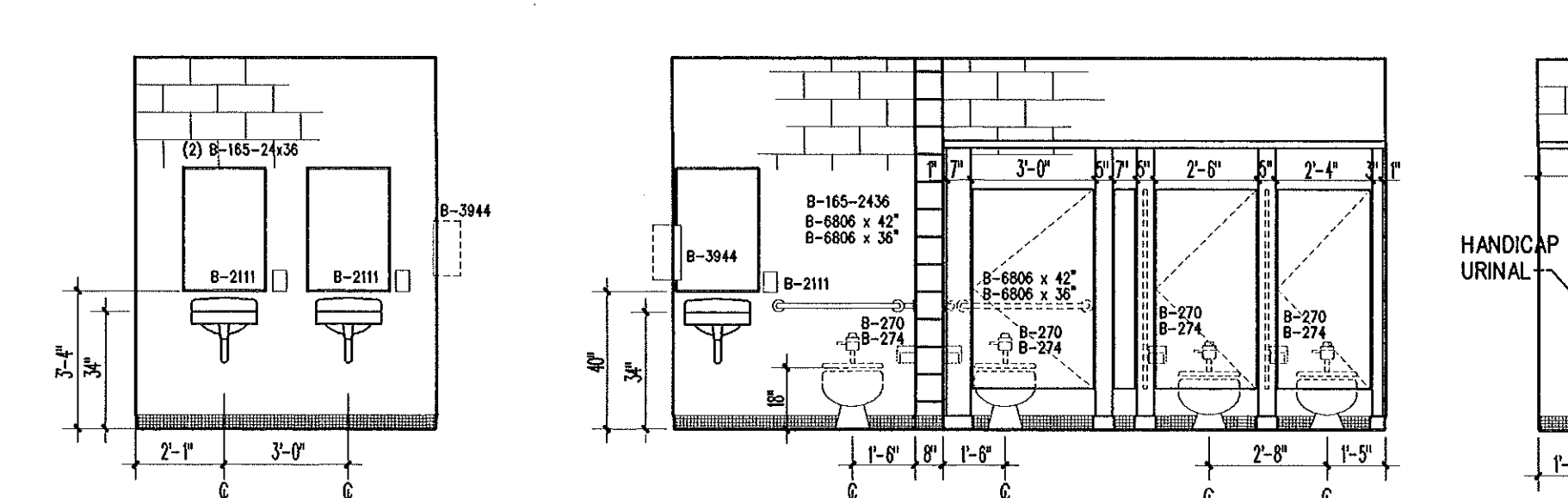


1 ENLARGED GYMNASIUM LOCKER RM
A-35 1/4" = 1'-0"



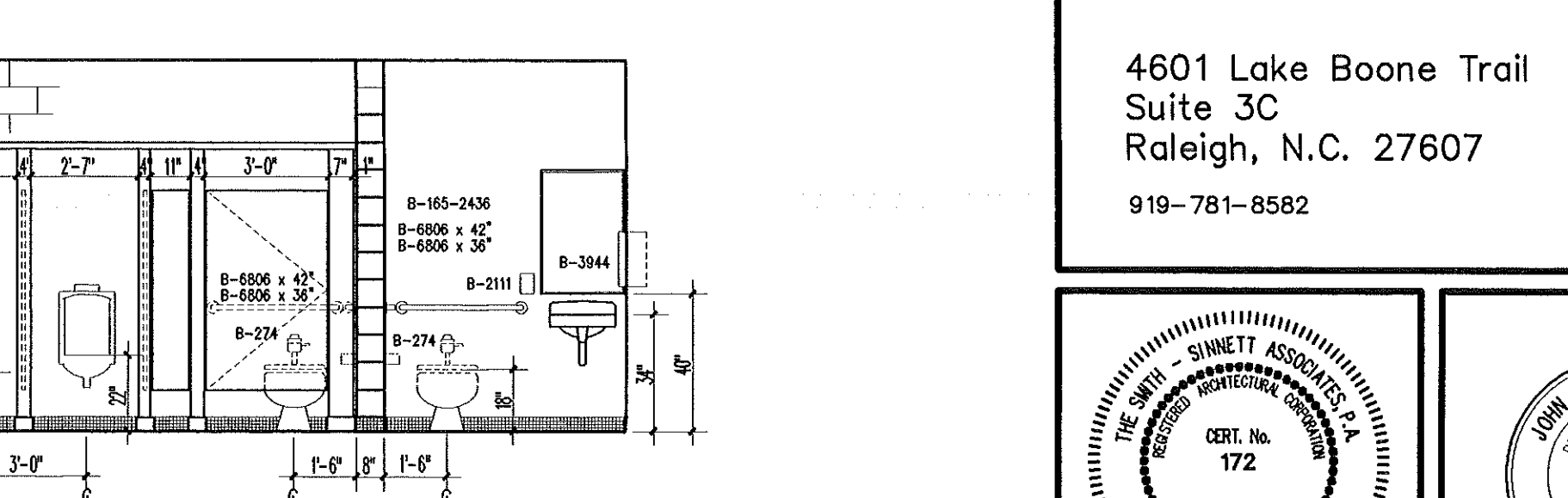
3 SHOWER ELEV.
A-35 1/4" = 1'-0"

4 TOILET ELEV.
A-35 1/4" = 1'-0"

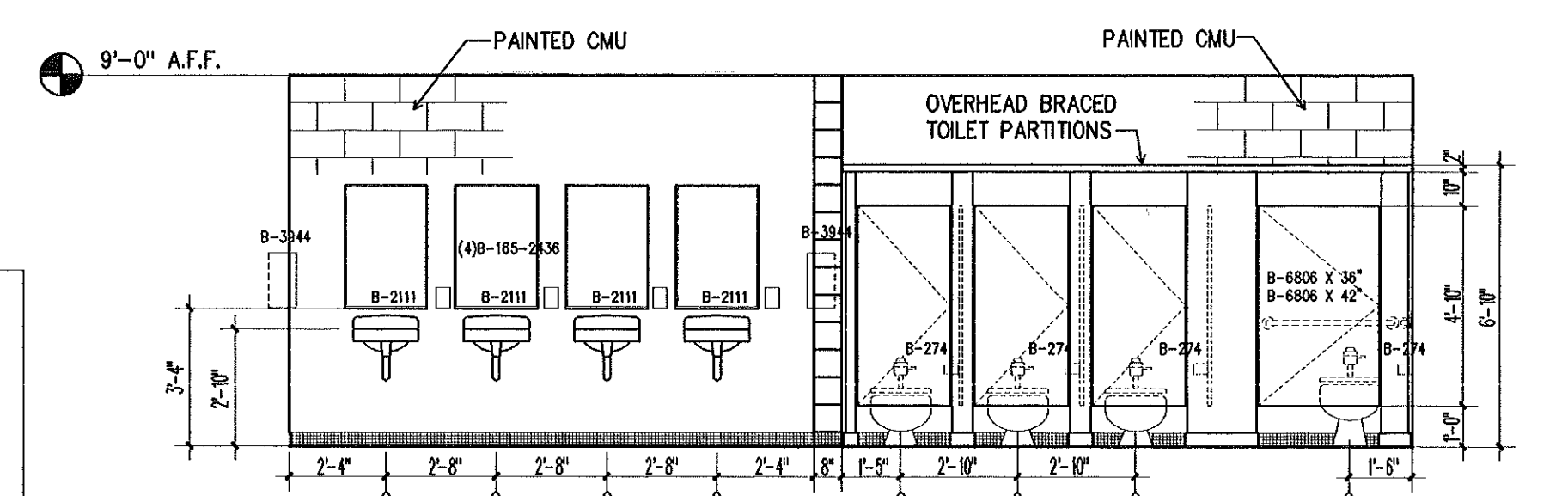


5 TOILET ELEV.
A-35 1/4" = 1'-0"

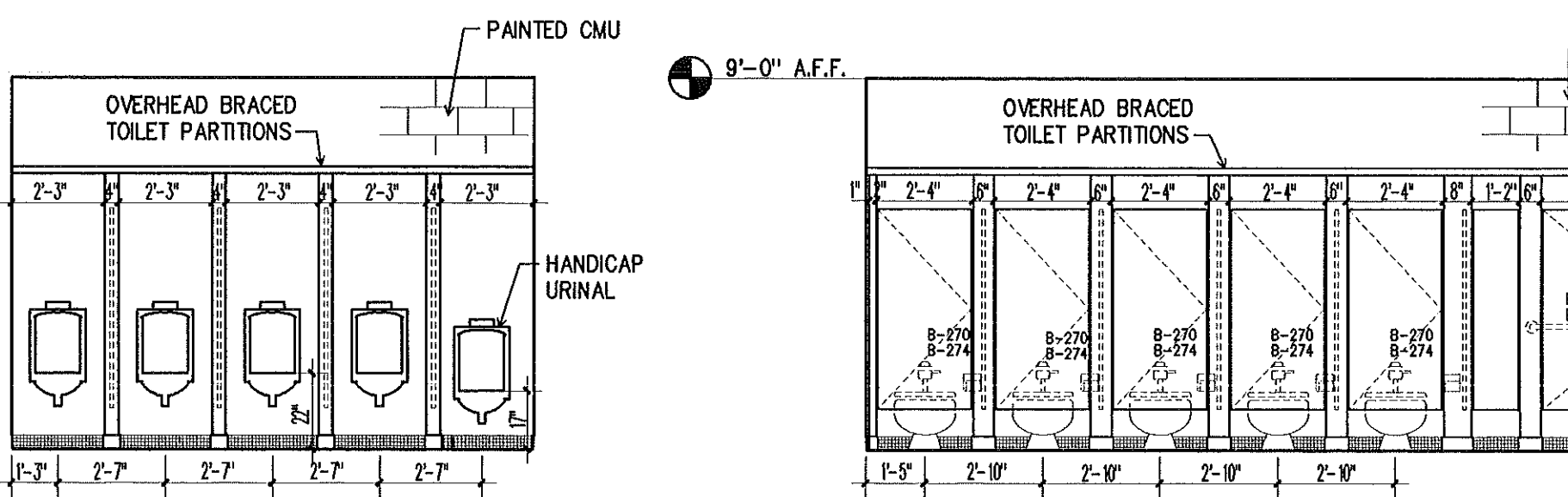
6 TOILET ELEV.
A-35 1/4" = 1'-0"



7 TOILET ELEV.
A-35 1/4" = 1'-0"

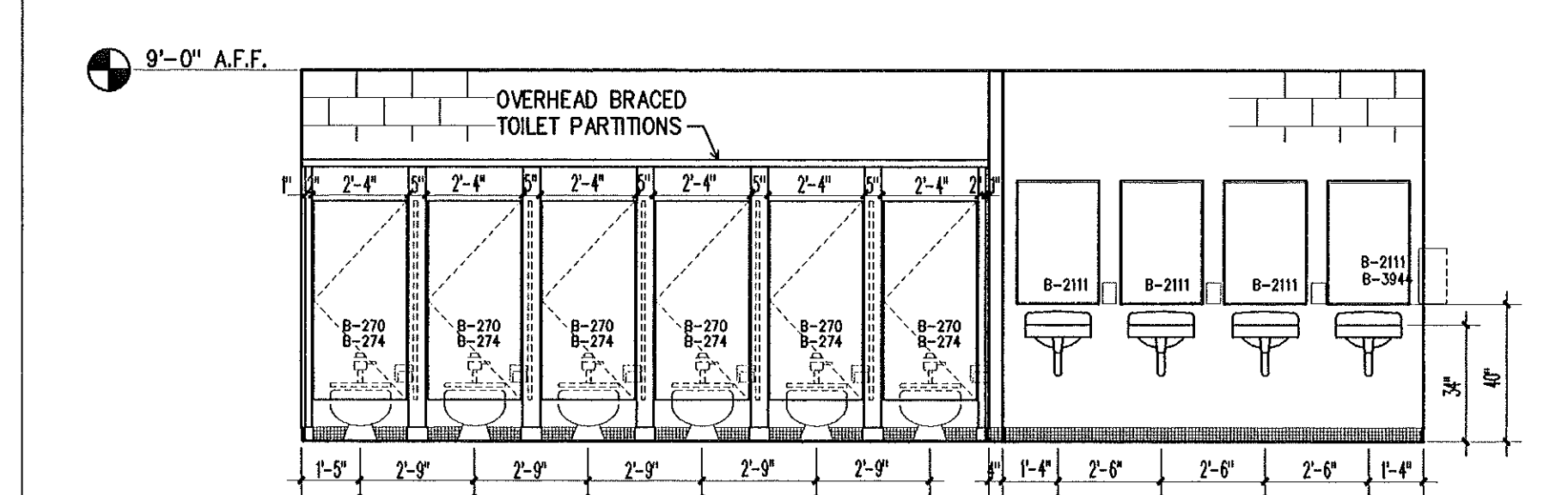


8 MEN'S TOILET ELEV.
A-35 1/4" = 1'-0"

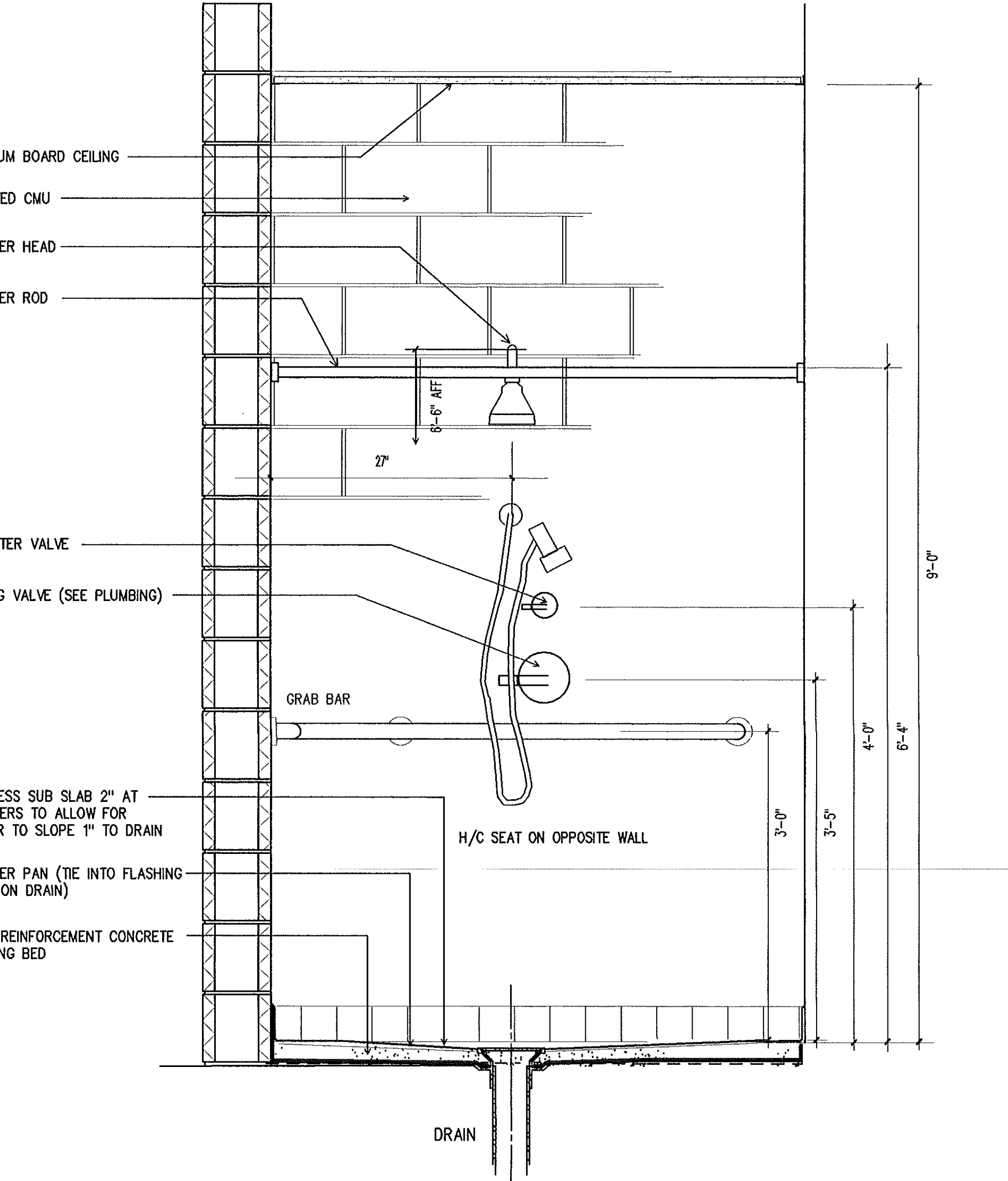


9 MEN'S TOILET ELEV.
A-35 1/4" = 1'-0"

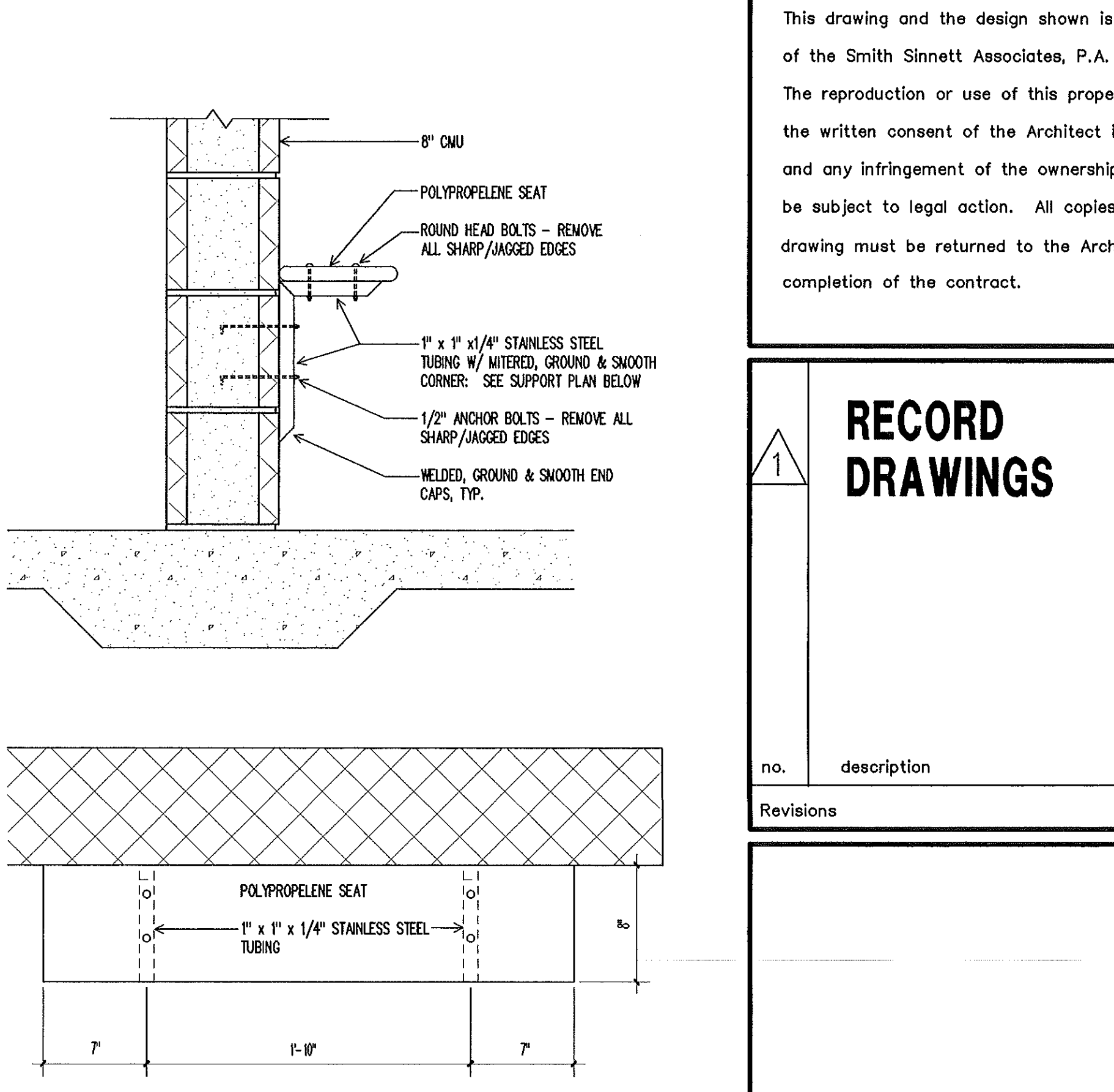
10 WOMEN TOILET ELEV.
A-35 1/4" = 1'-0"



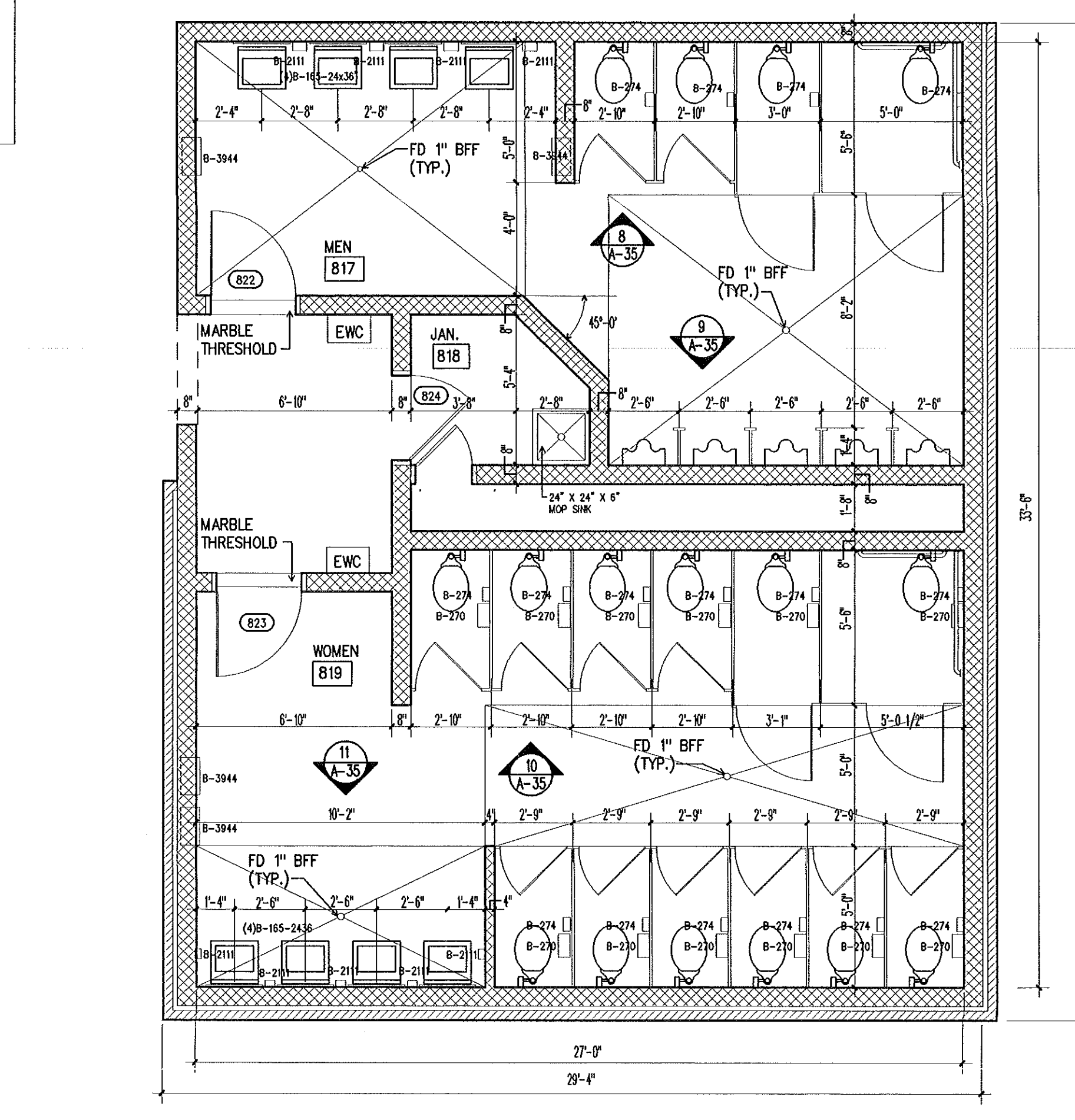
11 WOMEN TOILET ELEV.
A-35 1/4" = 1'-0"



12 SHOWER SECTION
A-35 1" = 1'-0"



13 SECTION AND PLAN AT SHOWER BENCH
A-35 1 1/2" = 1'-0"



2 ENLARGED GYMNASIUM TOILET PLAN
A-35 1/4" = 1'-0"

14 TOILET ACCESSORY SCHEDULE		
UNIT	DESCRIPTION	MOUNTING HEIGHT
B-3844	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	4'-0" TO DISPENSER SLOT
B-270	SURFACE MOUNTED SAN NAPKIN DISPOSAL	2'-1" TO TOP OF UNIT
B-274	DOUBLE SURFACE MOUNTED TISSUE DISPENSER, CONTROLLED DELIVERY	1'-7" TOP OF UNIT
B-2111	SURFACE MOUNTED SOAP DISPENSER	4'-0" TO TOP OF UNIT
B-8047	EXTRA-HEAVY-DUTY STAINLESS STEEL SHOWER CURTAIN ROD	6'-4" TO TOP OF ROD
B-880636"	36" GRAB BAR	3'-0" O.C.
B-880642"	42" GRAB BAR	3'-0" O.C.
B-88137	36" X 54" GRAB BAR	3'-0" O.C.
B-439	RECESSED HEAVY-DUTY SOAP DISH & BAR	4'-0" TO BOTTOM OF UNIT
B-5181	FOLDING H/C SHOWER SEAT (RIGHT HAND)	1'-6" TO TOP OF SEAT
B-165-2438	24" X 36" GLASS MIRROR	3'-4" TO BOTTOM OF UNIT
B-880602"	60" GRAB BAR	2'-9" O.C.
B-8806030"	30" GRAB BAR	2'-9" O.C.

UNIT NUMBERS BEGINNING WITH "B" ARE PRODUCTS OF "BOBBICK WASHROOM EQUIPMENT INC." EXCEPT FOR SHOWER DOORS.

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checked by: **RA**

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Revisions

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GYMNASIUM ENLARGED TOILET PLANS

sheet title scale:

F8602.01
project no.

01/15/98
date

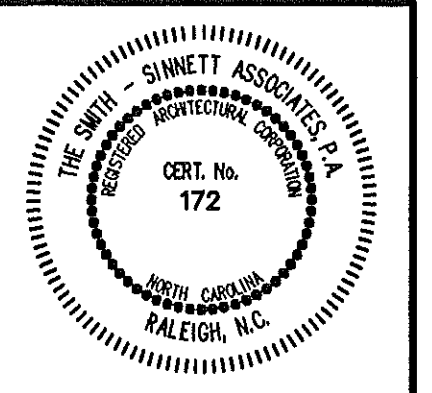
sheet no. **35** of: **43**

sheet no. **A-35**

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Revisions

6-8-98

New Havelock
Middle School

Craven County
North Carolina

project title

REFLECTED CEILING PLANS
ADMINISTRATION WING 100
CLASSROOM WINGS 200, 300, 400

sheet title scale:

F8502.01

project no.

sheet no. 36 of 43

1/15/96

date

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date

sheet no.

date

REFLECTED CEILING
PLAN NOTES

HOLD GYPSUM BOARD TIGHT TO UNDERSIDE OF ROOF
JOISTS FOR MAXIMUM POSSIBLE HEIGHT IN MECHANICAL
AND ELECTRICAL ROOMS.

CEILING SCHEDULE

CEILING MATERIAL DESCRIPTION (SEE BELOW)
ASTERISK INDICATES FIRE RATING REQUIRED
CEILING HEIGHT A.F.F.

A 2' X 2' ACOUSTICAL, LAY-IN FISSURED AND
STIPPLED CEILING TILE, WHITE GRID, 1 HR. RATED.
B 5/8" "FIRECODE" GYPSUM BOARD
C EXPOSED STRUCTURE
D MOISTURE RESISTANT WASHABLE TILE
1 HR. RATED TILE

RECESSED DOWN LIGHT
WALL MOUNTED INCANDESCENT FIXTURE
2 X 4 FLUOR. LAY-IN FIXTURE W/ LENS
2 X 2 FLUOR. LAY-IN FIXTURE W/ LENS
1 X 4 WALL MOUNTED FLUOR.
TRACK LIGHTING
INDIRECT FLUOR. LIGHT FIXTURE
WALL MOUNTED EXIT
CEILING MOUNTED EXIT
EMERGENCY LIGHT, BATTERY POWERED
PENDANT MOUNTED INDIRECT LIGHT FIXTURE
SUPPLY AIR GRILLE
RETURN AIR GRILLE

NOTE: REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL, FOR
COMPLETE SCOPE OF FIXTURES IN THE CEILING.

REFLECTED CEILING PLAN - CLASSROOM WINGS 200, 300, 400

1/8" = 1'-0"

NOTE: ALL EXTERIOR SOFFIT HEIGHTS TO BE 10'-0" AFF, UNLESS OTHERWISE NOTED

REFLECTED CEILING PLAN - ADMINISTRATION WING 100

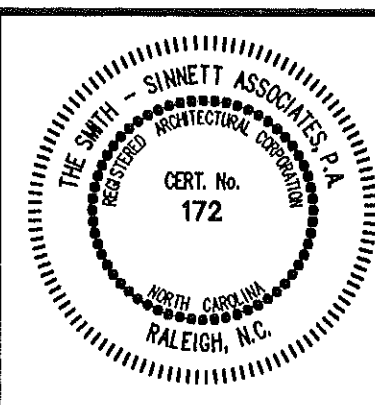
1/8" = 1'-0"

NOTE: ALL EXTERIOR SOFFIT HEIGHTS TO BE 10'-0" AFF, UNLESS OTHERWISE NOTED

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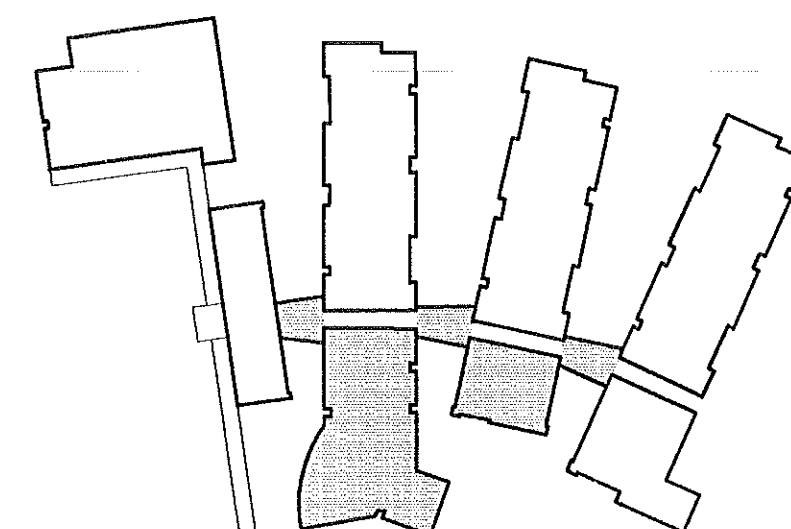
consultant

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checked by: **RA**

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New Havelock
Middle School

Craven County
North Carolina

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REFLECTED CEILING PLAN
ARTS, MEDIA, AND COMMONS

sheet title scale:

F9802.01

project no.

1/15/95

date

sheet no. 37 of: 43

sheet no. **A-37**

released for construction 1/15/95

3
A-36
CEILING SCHEDULE

CEILING MATERIAL DESCRIPTION (SEE BELOW)
* ASTERISK INDICATES FIRE RATING REQUIRED
CEILING HEIGHT A.F.F.

A 2' X 2' ACoustical, LAY-IN FISSED AND STIPPLED CEILING TILE, WHITE GRID, 1 HR. RATED.
B 5/8" "FIRECODE" GYPSUM BOARD
C EXPOSED STRUCTURE
D MOISTURE RESISTANT WASHABLE TILE, 1 HR. RATED TILE.

RECESSED DOWN LIGHT
WALL MOUNTED INCANDESCENT FIXTURE
2 X 4 FLUOR. LAY-IN FIXTURE W/ LENS
2 X 2 FLUOR. LAY-IN FIXTURE W/ LENS
1 X 4 WALL MOUNTED FLUOR.
TRACK LIGHTING
INDIRECT FLUOR. LIGHT FIXTURE
WALL MOUNTED EXIT
CEILING MOUNTED EXIT
EMERGENCY LIGHT, BATTERY POWERED
PENDANT MOUNTED INDIRECT LIGHT FIXTURE
SUPPLY AIR GRILLE
RETURN AIR GRILLE

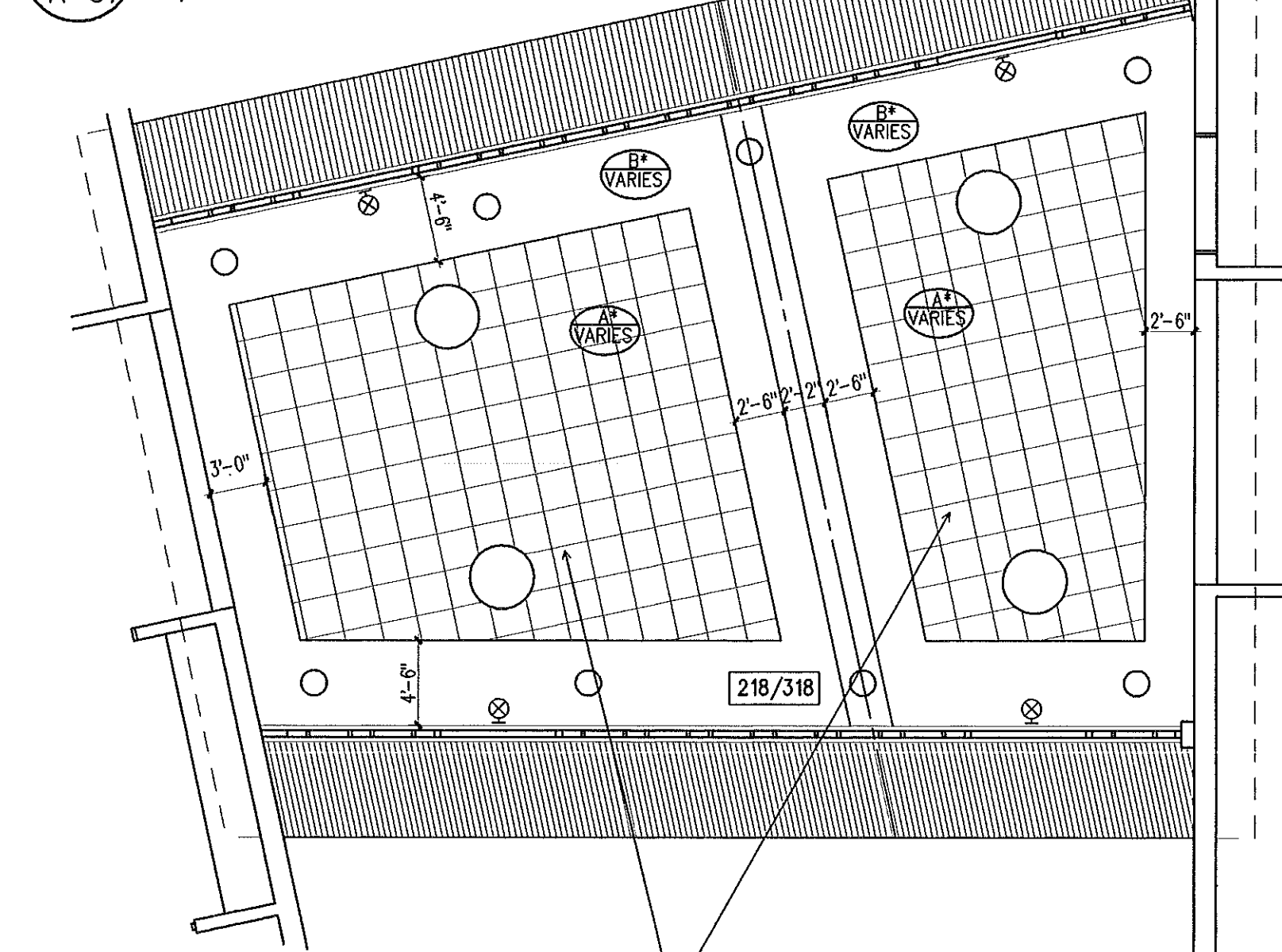
NOTE: REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL, FOR COMPLETE SCOPE OF FIXTURES IN THE CEILING.

3
A-36
REFLECTED CEILING
PLAN NOTES

HOLD GYPSUM BOARD TIGHT TO UNDERSIDE OF ROOF JOISTS FOR MAXIMUM POSSIBLE HEIGHT IN MECHANICAL AND ELECTRICAL ROOMS.

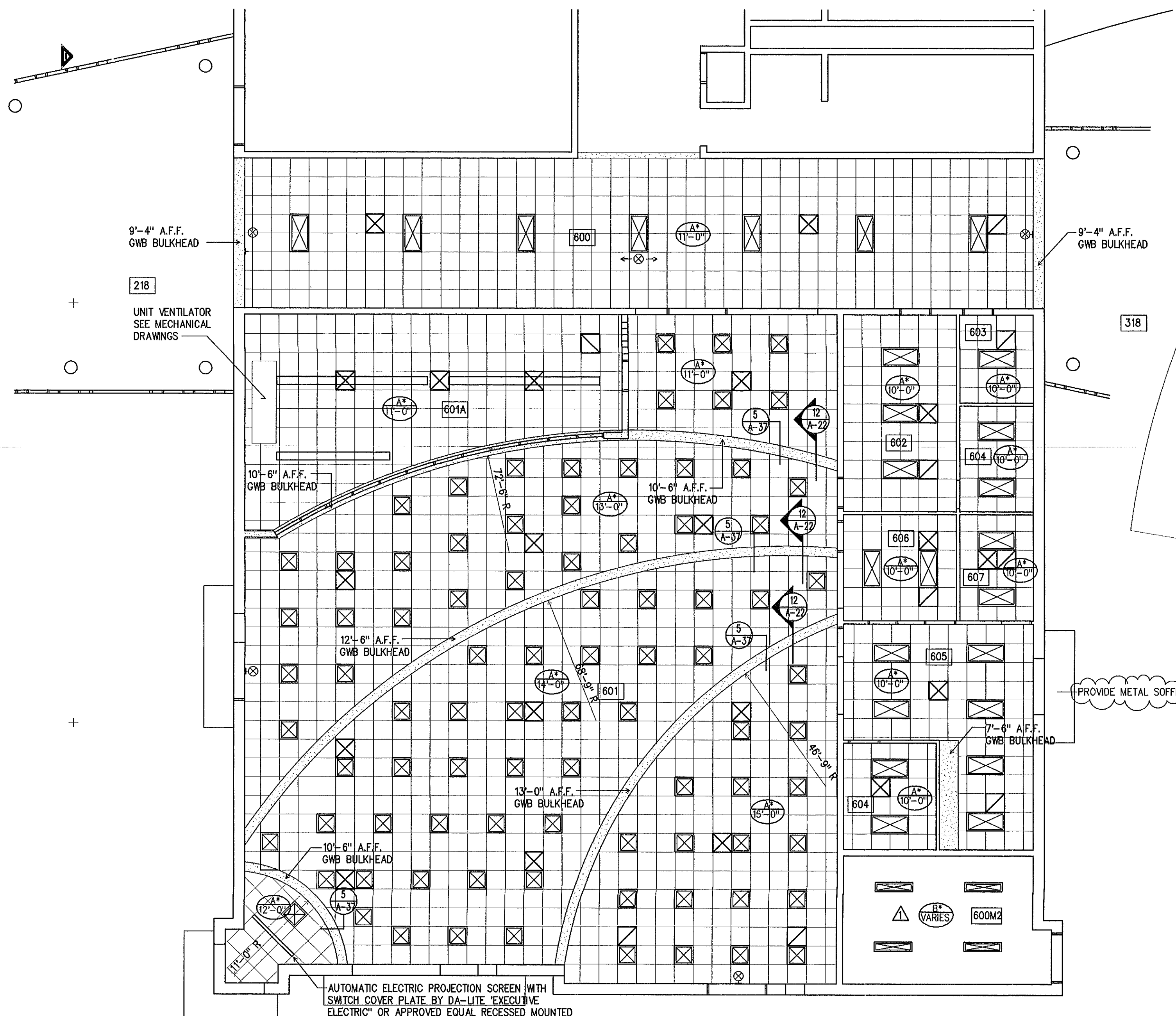
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A-37
BULKHEAD DETAIL

1 1/2" = 1'-0"



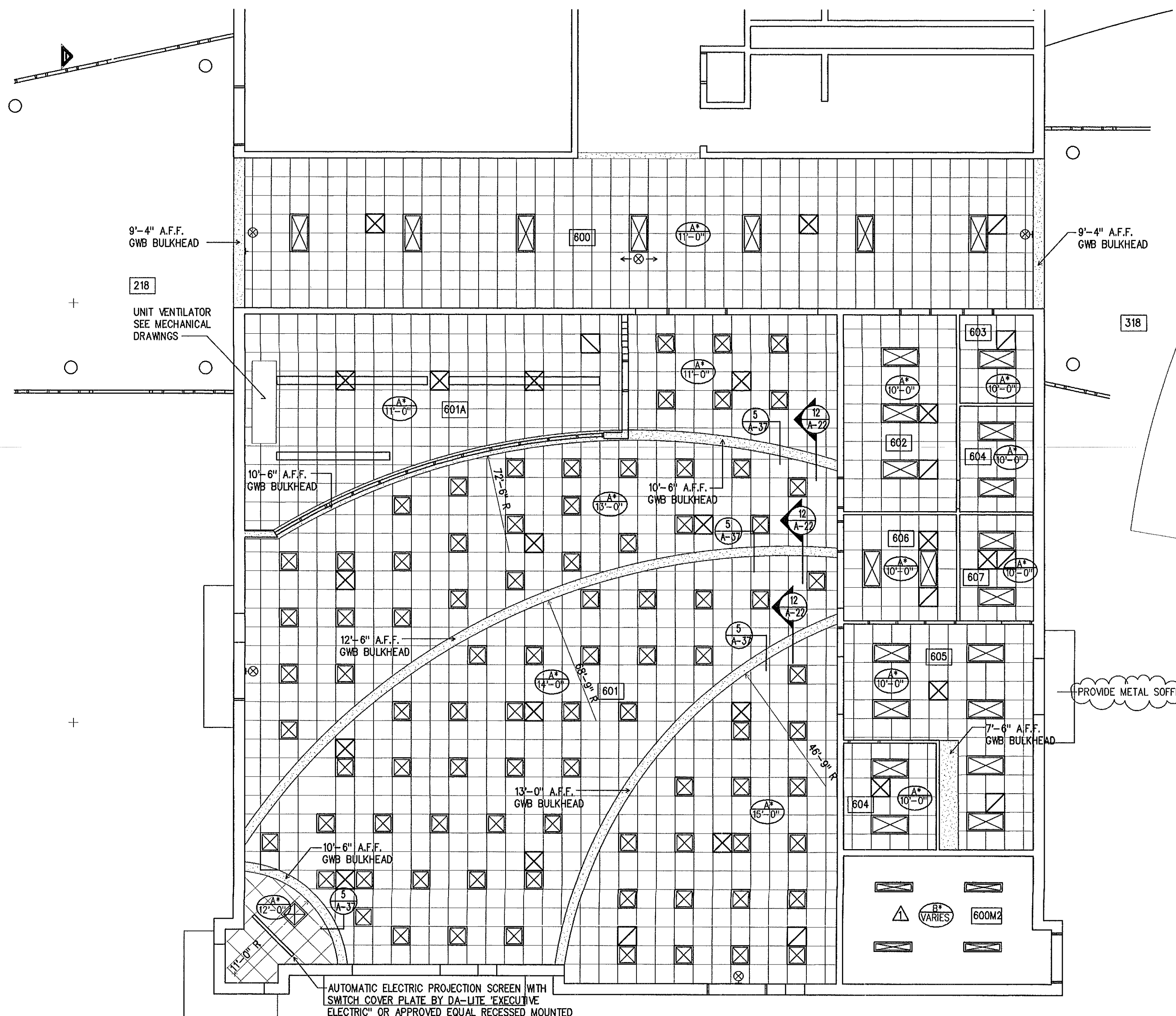
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A-37
REFLECTED CEILING PLAN - COMMONS 130

1/8" = 1'-0"



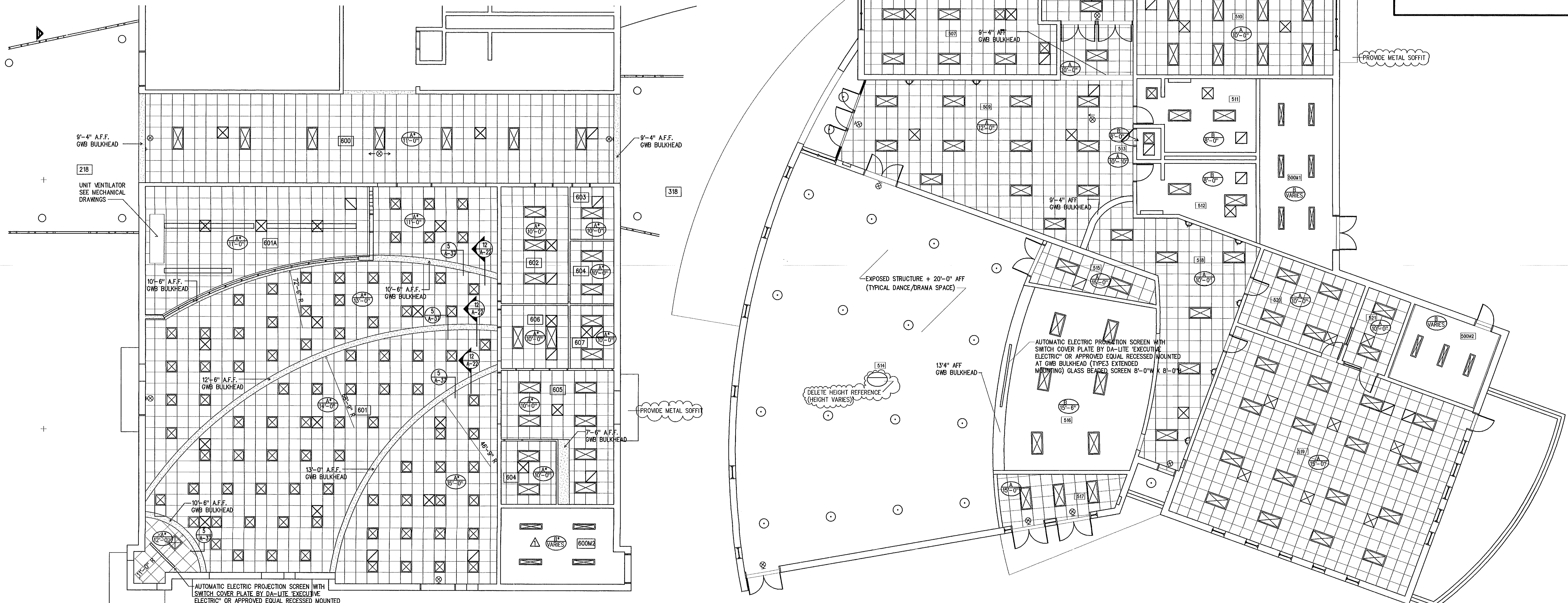
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A-37
REFLECTED CEILING PLAN - MEDIA CENTER

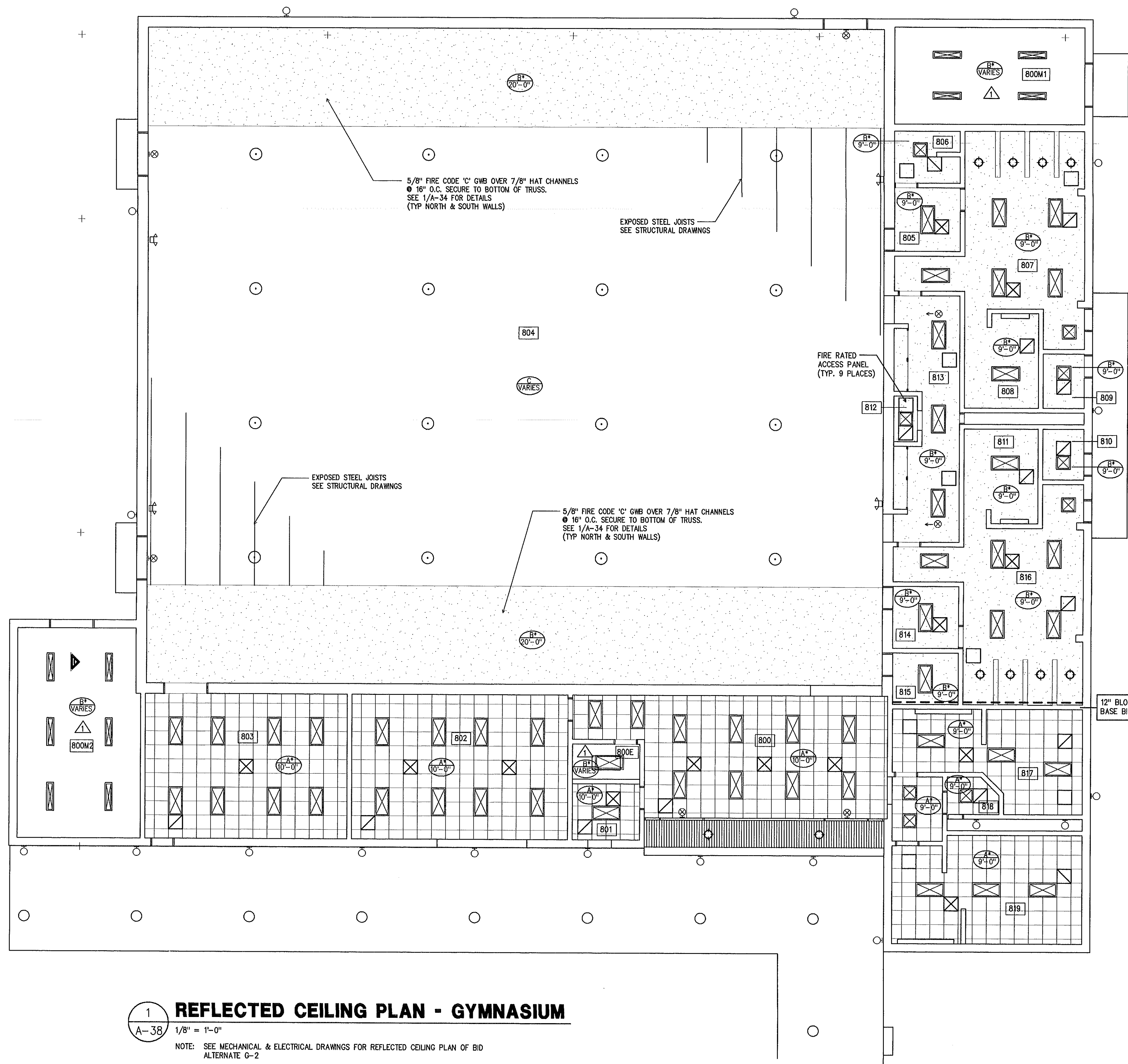
1/8" = 1'-0"



1
A-37
REFLECTED CEILING PLAN - ARTS/EXPLORATORY WING

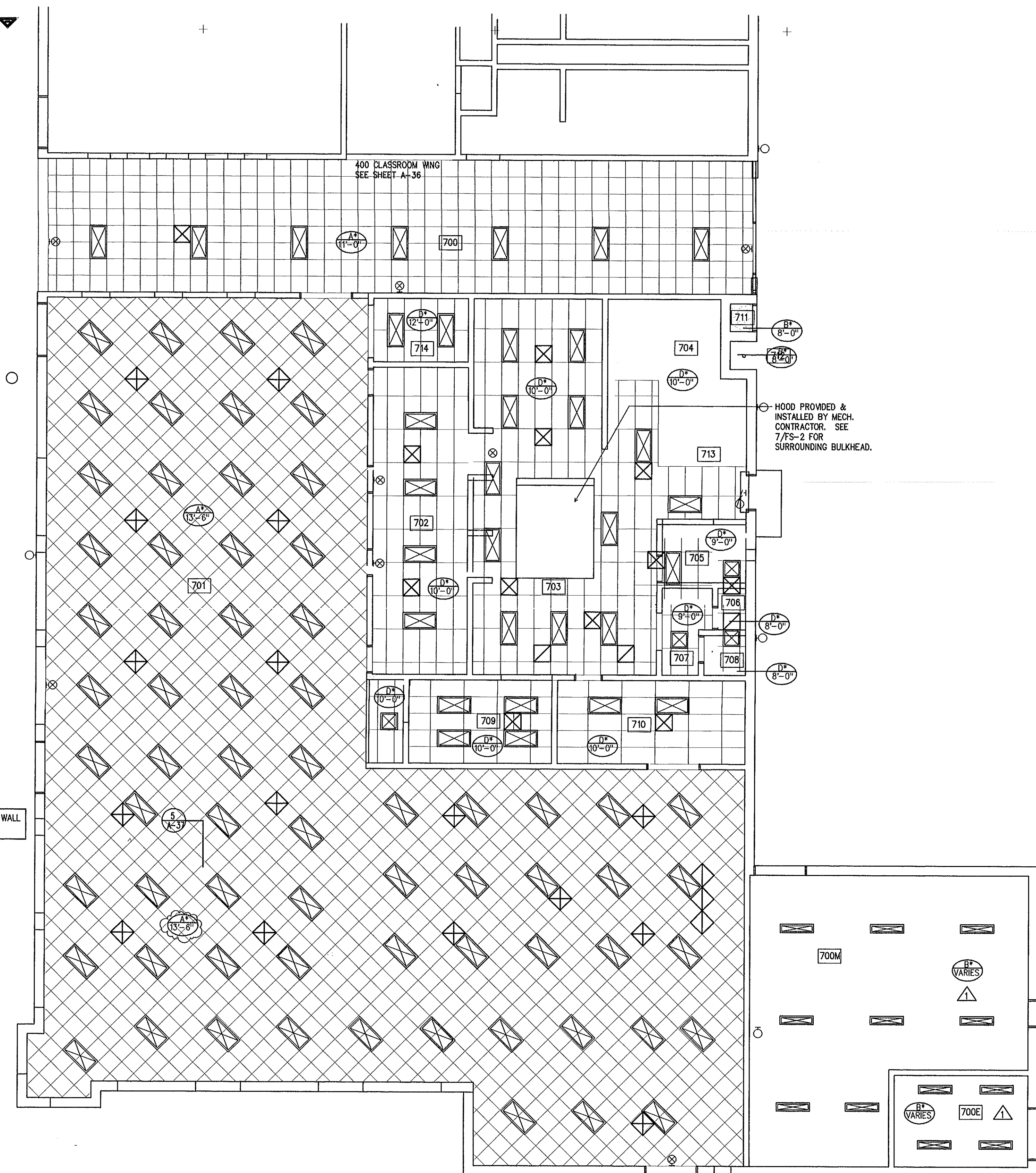
1/8" = 1'-0"





1 REFLECTED CEILING PLAN - GYMNASIUM

A-38 1/8" = 1'-0"
NOTE: SEE MECHANICAL & ELECTRICAL DRAWINGS FOR REFLECTED CEILING PLAN OF BID
ALTERNATE G-2



2 REFLECTED CEILING PLAN - CAFETERIA

A-38 1/8" = 1'-0"

3 CEILING SCHEDULE	
<div> <div> <div>3</div> <div>A-38</div> </div> <div> <div>8'-4"</div> <div>8'-4"</div> </div> </div>	CEILING MATERIAL DESCRIPTION (SEE BELOW)
	ASTERISK INDICATES FIRE RATING REQUIRED
	CEILING HEIGHT A.F.F.
A	2' X 2' ACOUSTICAL, LAY-IN FISSED AND STIPPLED CEILING TILE, WHITE GRID, 1 HR. RATED.
B	5/8" "FIRECODE" GYPSUM BOARD
C	EXPOSED STRUCTURE
D	2' X 4' ACOUSTICAL LAY-IN CEILING WITH VINYL COATED ALUMINUM MEMBRANE, WHITE GRID 1HR-RATED
	RECESSED DOWN LIGHT
	WALL MOUNTED INCANDESCENT FIXTURE
	2 X 4 FLUOR. LAY-IN FIXTURE W/ LENS
	2 X 2 FLUOR. LAY-IN FIXTURE W/ LENS
	1 X 4 WALL MOUNTED FLUOR.
	TRACK LIGHTING
	INDIRECT FLUOR. LIGHT FIXTURE
	WALL MOUNTED EXIT
	CEILING MOUNTED EXIT
	EMERGENCY LIGHT, BATTERY POWERED
	PENDANT MOUNTED INDIRECT LIGHT FIXTURE
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE

3 REFLECTED CEILING PLAN NOTES

NOTE: HOLD GYPSUM BOARD TIGHT TO UNDERSIDE OF ROOF JOISTS FOR MAXIMUM POSSIBLE HEIGHT IN MECHANICAL AND ELECTRICAL ROOMS.

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Project Engineer: LFC, DVC
drawn by: RA
checked by:

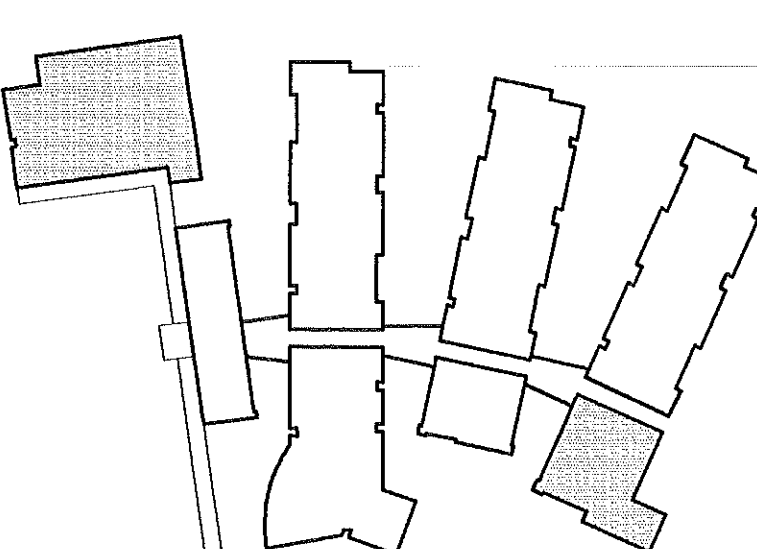
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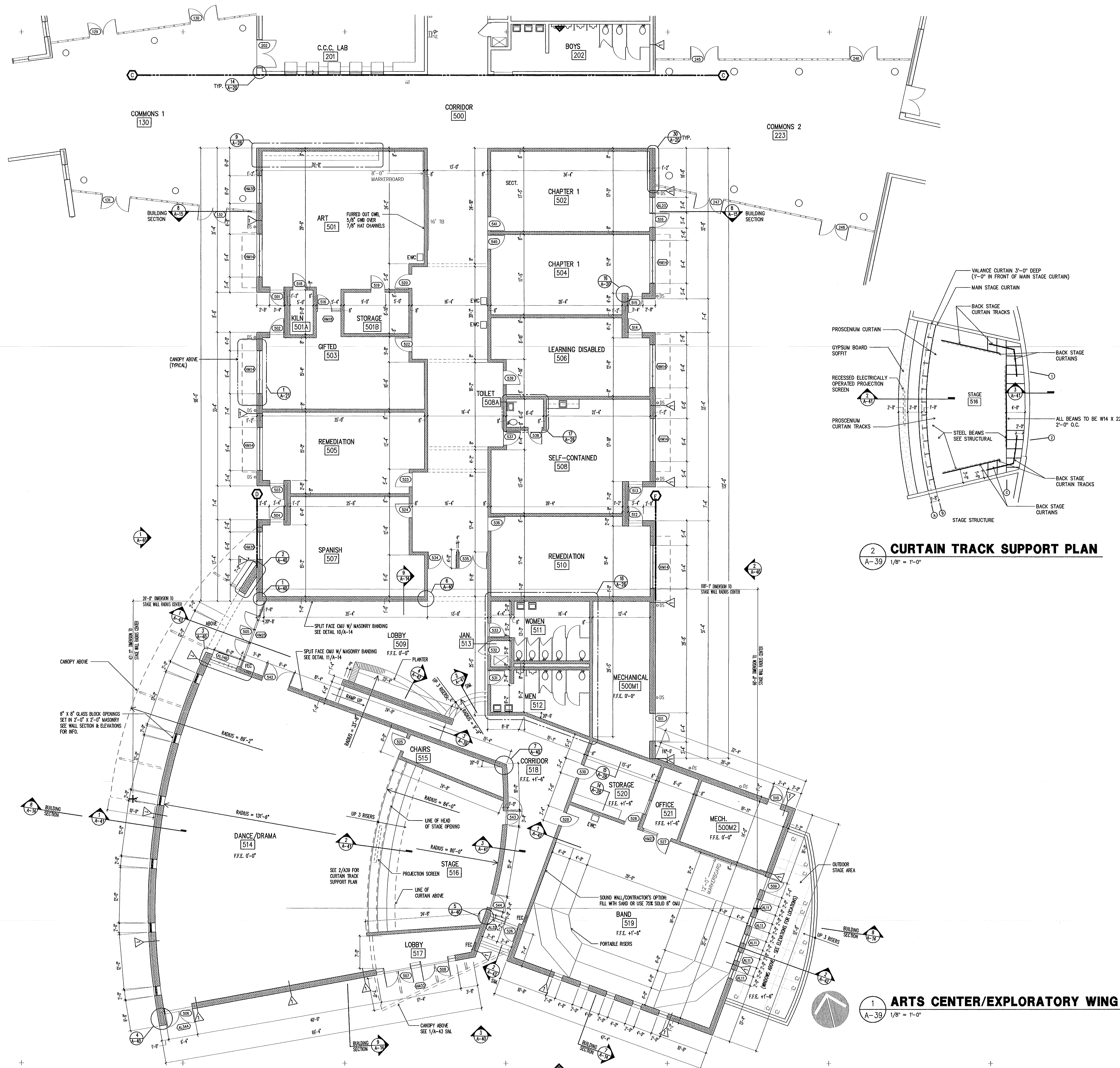
CAFETERIA AND GYMNASIUM REFLECTED CEILING PLAN

sheet title scale:

F9502.01 project no. sheet no. 38 of: 43

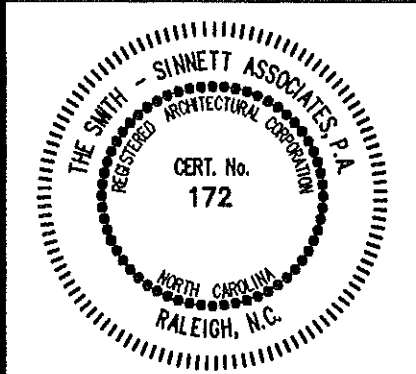
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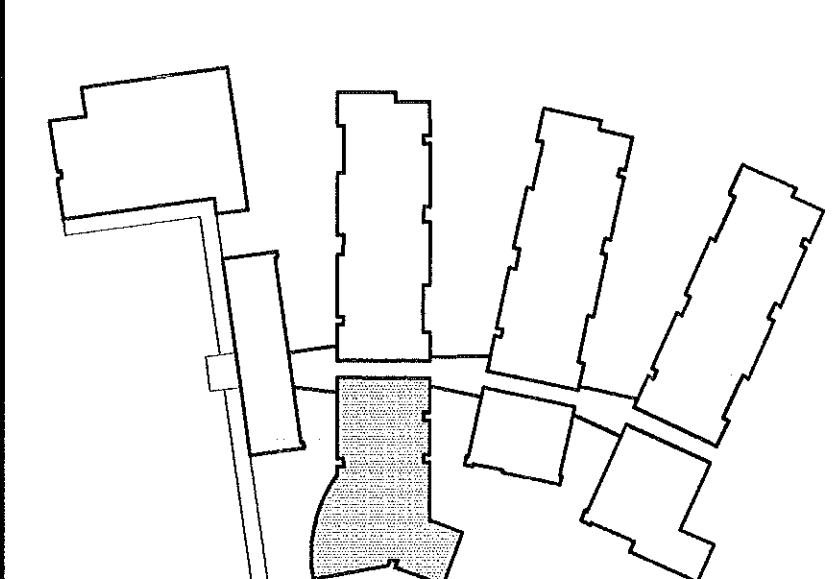
consultant

Project Manager: **John F. Sinnett, AIA**
Project Architect: **JFS**
Project Engineer: **LFC, DVC**
drawn by: **RA**
checked by:

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New Havelock Middle School
Craven County
North Carolina

project title

ARTS CENTER/EXPLORATORY WING 500 PLAN

sheet title scale:

F9502.01
project no.

1/15/98
date

sheet no. **A-39** of: **A-43**

sheet no. **A-39**

released for construction 1/15/98

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Project Architect: **JFS**
Project Engineer:
drawn by: **LFC, ABD**
checked by: **RA**

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North Carolina

project title

ARTS CENTER/EXPLORATORY WING 600
ELEVATIONS
PLAN DETAILS

sheet title

F9502.01

project no.

1/15/98

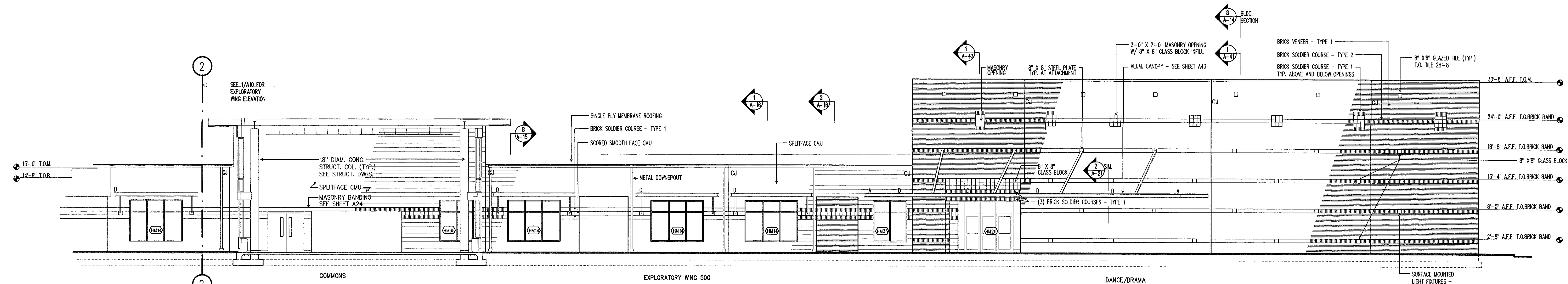
date

sheet no. 40 of 43

sheet no.

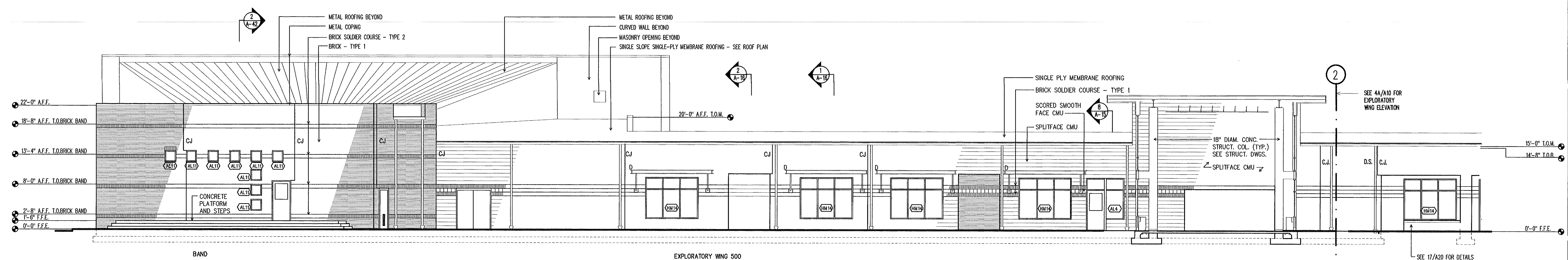
A-40

released for construction 1/15/98



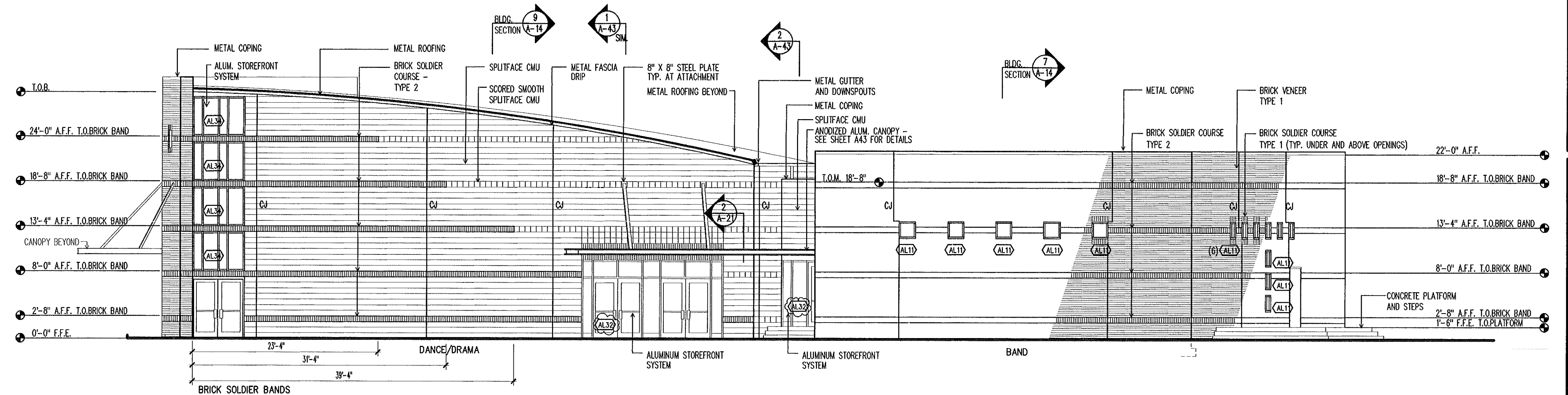
1 WEST ELEVATION

A-40 1/8" = 1'-0"



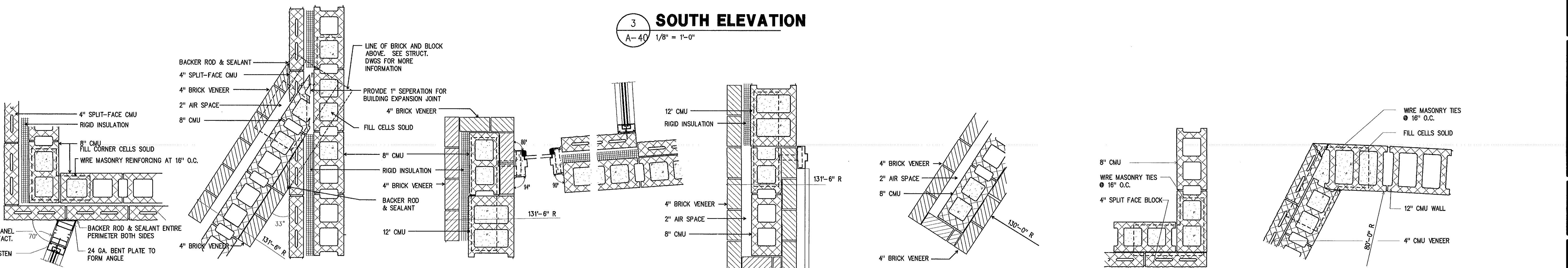
2 EAST ELEVATION

A-40 1/8" = 1'-0"



3 SOUTH ELEVATION

A-40 1/8" = 1'-0"



1 DETAIL

A-40 1" = 1'-0"

2 DETAIL

A-40 1" = 1'-0"

3 DETAIL

A-40 1" = 1'-0"

4 DETAIL

A-40 1" = 1'-0"

5 DETAIL

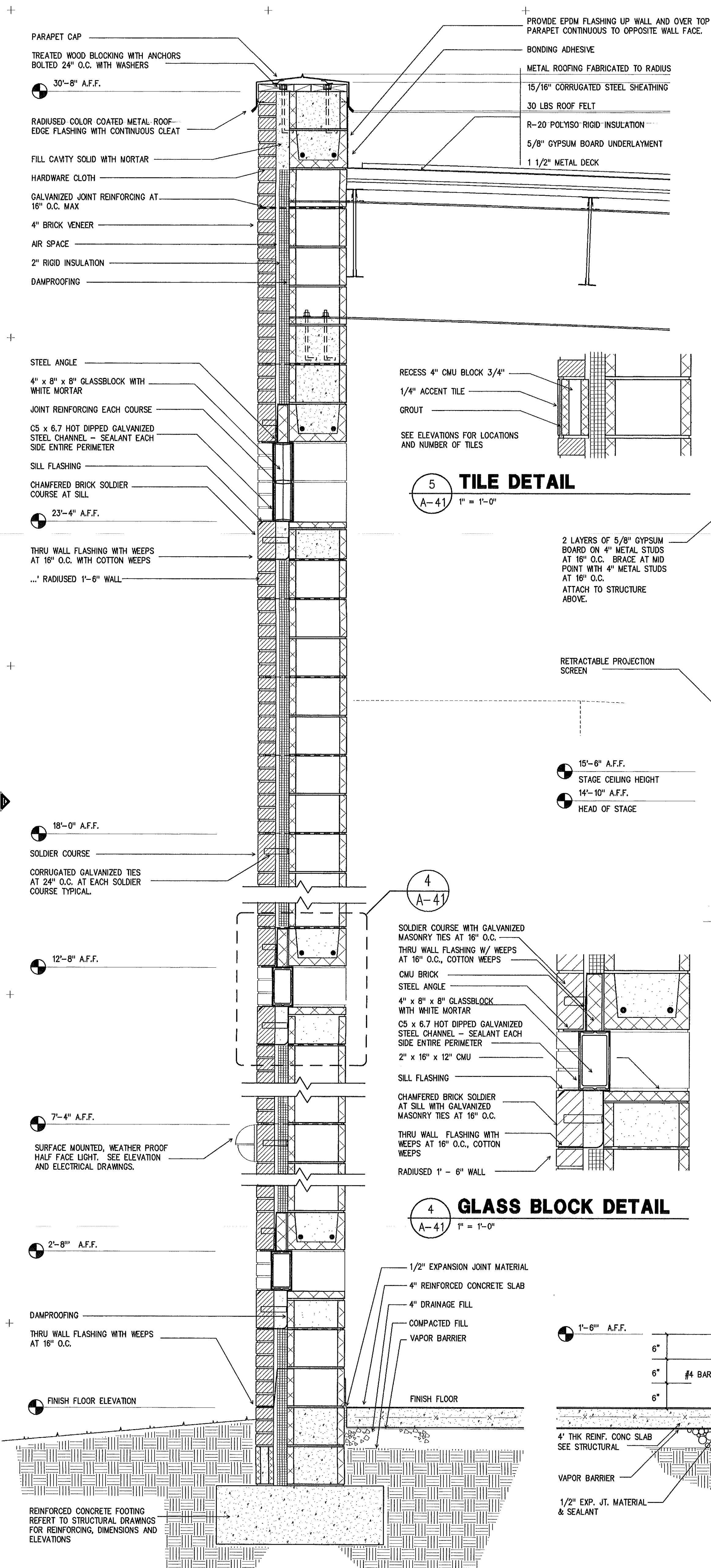
A-40 1" = 1'-0"

6 DETAIL

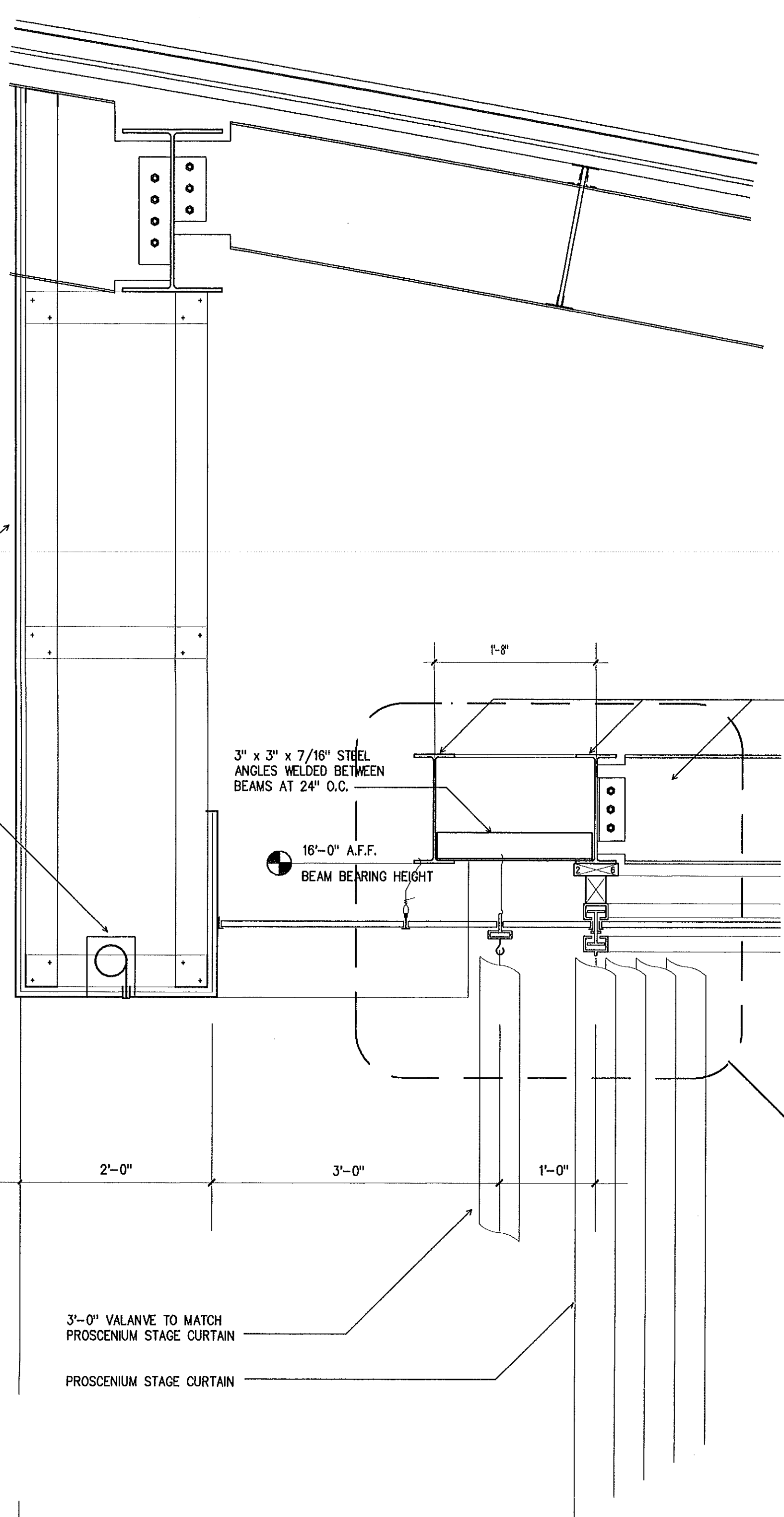
A-40 1" = 1'-0"

7 DETAIL

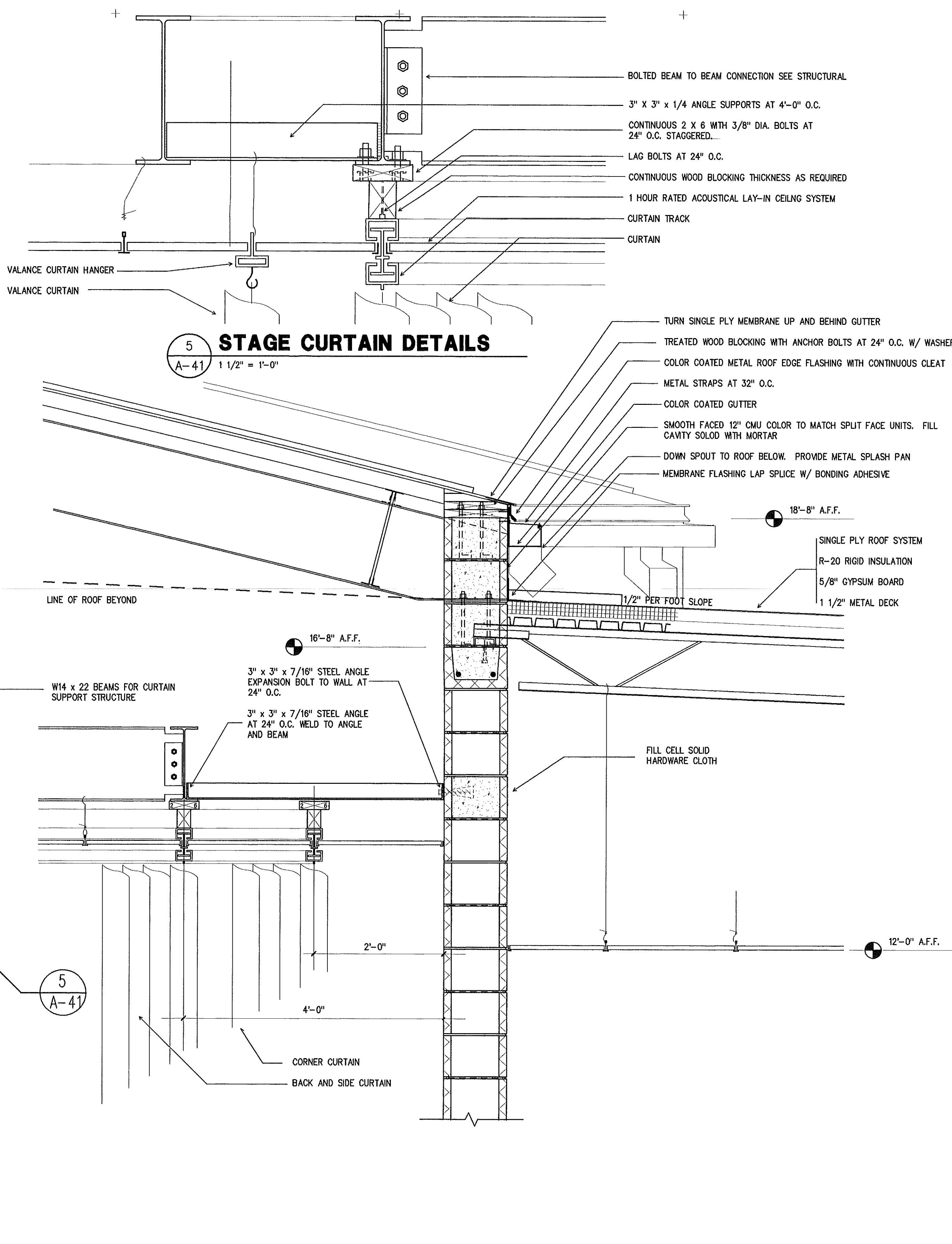
A-40 1" = 1'-0"



1 WALL SECTION
A-41 1" = 1'-0"



2 SECTION THRU STAGE STEP
A-41 1" = 1'-0"



3 WALL SECTION
A-41 1" = 1'-0"

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RECORD DRAWINGS
no. description date
Revisions

New Havelock Middle School
Craven County
North Carolina

project title

WALL SECTION, SECTION THRU STAGE STEPS
sheet title scale:

F9502.01
project no.

01/15/98
date

sheet no. **41** of: .
sheet no. **A-41**

Released for construction 01/15/98

METAL TOP CAP WITH CONTINUOUS SPRING CLIPS
2" TREATED WOOD BLOCKING WITH 1/2" ANCHOR BOLTS AT 24" O.C.
CONT. CLEAT EACH SIDE
8" BOND BEAM 16" DEEP FILL SOLID SEE STRUCTURAL FOR REINFORCING
22'-0" TOP OF MAS.
PARAPET CAP
TURN SINGLE PLY MEMBRANE FLASHING UP WALL AND OVER TOP OF PARAPET CONTINUOUS TO OPPOSITE WALL FACE.
BONDING ADHESIVE
SINGLE -PLY ROOF SYSTEM

PROVIDE SMOOTH FACED BLOCK MATCHING COLOR OF TYPICAL SPLIT FACE UNITS 3' ABOVE ROOF SURFACE
METAL REGLET / CAP FLASHING
EXTEND ROOFING MEMBRANE 14" UP WALL MIN. EXTEND UNDER COUNTER FLASHING AND METAL REGLET FLASHING.
TAPERED INSULATION TO FORM CRICKET
SINGLE-PLY MEMBRANE COUNTER FLASHING EXTEND 14" MIN

LINE OF ROOF BEYOND

THRU WALL FLASHING WITH WEEPS AT 24" O.C.
4" BRICK VENEER

SMOOTH FACE CMU CHAMFERED COURSE AT SILL

CONTINUOUS CMU BOND BEAM - FILL SOLID W/ CONCRETE - REFER TO STRUCTURAL DRAWINGS FOR REINFORCING

CHAMFERED BRICK SOLDIER COURSE AT SILL

1/8" BLUESTONE SILL

FILL WALL SOLID W/ GROUT ONE BLOCK COURSE BELOW SILL

CHAMFERED BRICK SOLDIER COURSE AT SILL W/BS SEE PLAN

FILL SOLID BELOW FINISH FLOOR TYP.

ALUMINUM STAIR NOSING WITH NON SKID PATTERN

REINFORCED CONCRETE FOOTING REFER TO STRUCTURAL DGS. FOR ELEVATIONS, DIMENSIONS, AND REINFORCEMENT.

1 WALL SECTION
A-42 1" = 1'-0"

2 WALL SECTION
A-42 1" = 1'-0"

3 STAIR SECTION
A-42 1" = 1'-0"

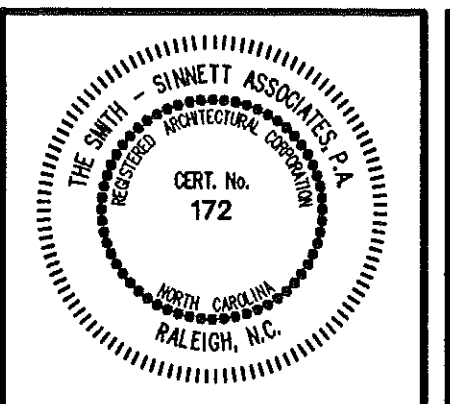
4 PLANTER/RAMP SECTION
A-42 1" = 1'-0"

TOP OF WALL TO SLOPE WITH RAMP ELEVATION
WALL HYDRANT WITH OPERATING KEY
FILL PLANTER WITH TOP SOIL
PLANTER SOIL LEVEL
LINE PLANTER IN ITS ENTIRETY WITH MEMBRANE WATERPROOFING SET WITH BONDING ADHESIVE. SEAL OFF AT TOP WITH TERMINATION BAR AND SEAL OFF AT DRAIN PER MANUFACTURERS RECOMMENDATIONS.
1 1/2" DIAMETER STEEL PIPE HANDRAIL W/ 1 1/2" CLEAR SPACE BETWEEN HANDRAIL AND WALL SURFACE
1:12 CONC. RAMP WITH VCT
WATER LINE TO HYDRANT WITH PIPE SLEEVE
4" CONC. SLAB LUG TO FOOTING
SEE STRUCTURAL FOR FOOTING SIZE AND REINFORCING
SLOPE TO DRAIN WITH MORTAR WASH UNDER MEMBRANE WATERPROOFING GRAVEL BED
RADIUS STRETCHER COURSE
1/4" ROUND RUBBER BASE
FINISH FLOOR
TOP OF HANDRAIL 3" MAX

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RECORD DRAWINGS

6-8-98

no.	description	date
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Revisions

New Havelock Middle School

Craven County
North Carolina

project title

WALL SECTIONS, PLANTER / RAMP SECTION

sheet title scale:

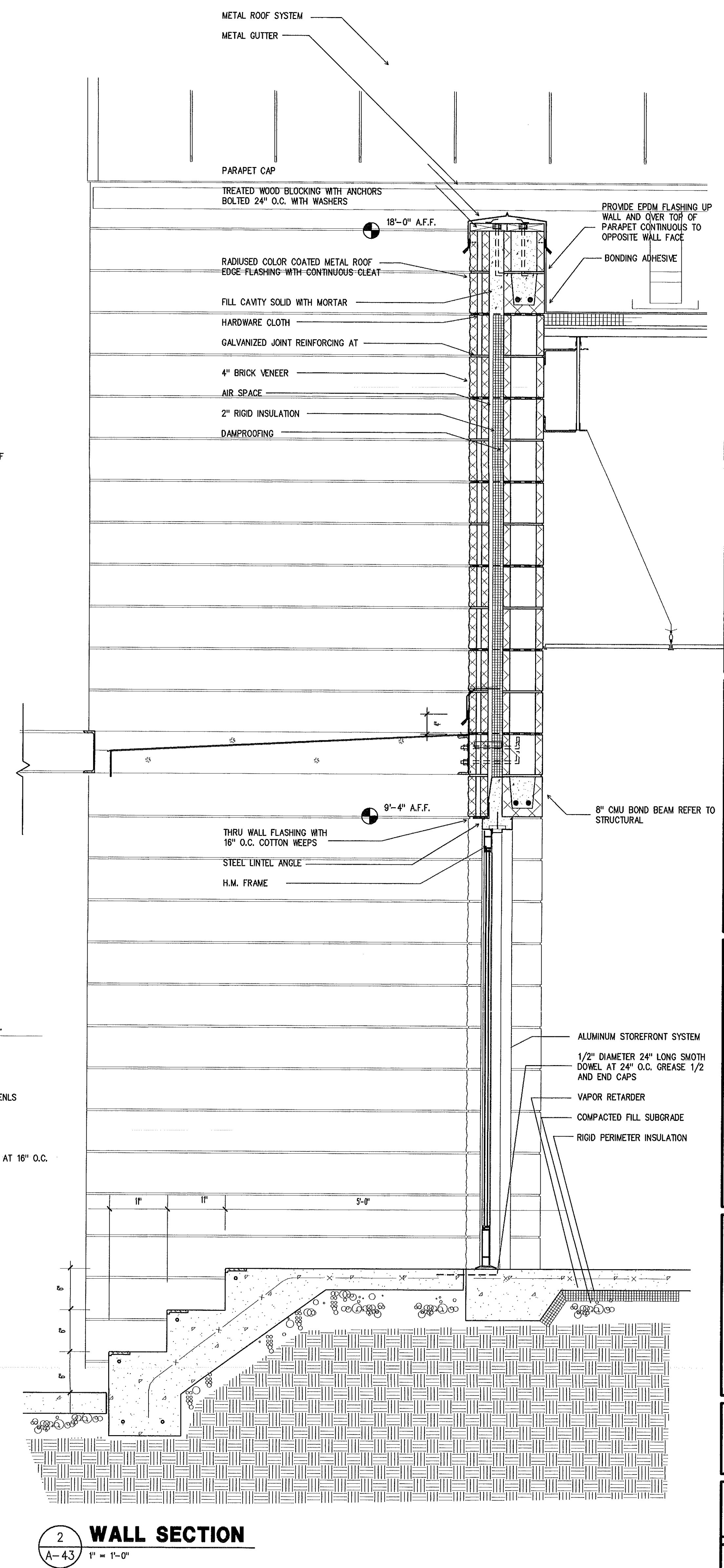
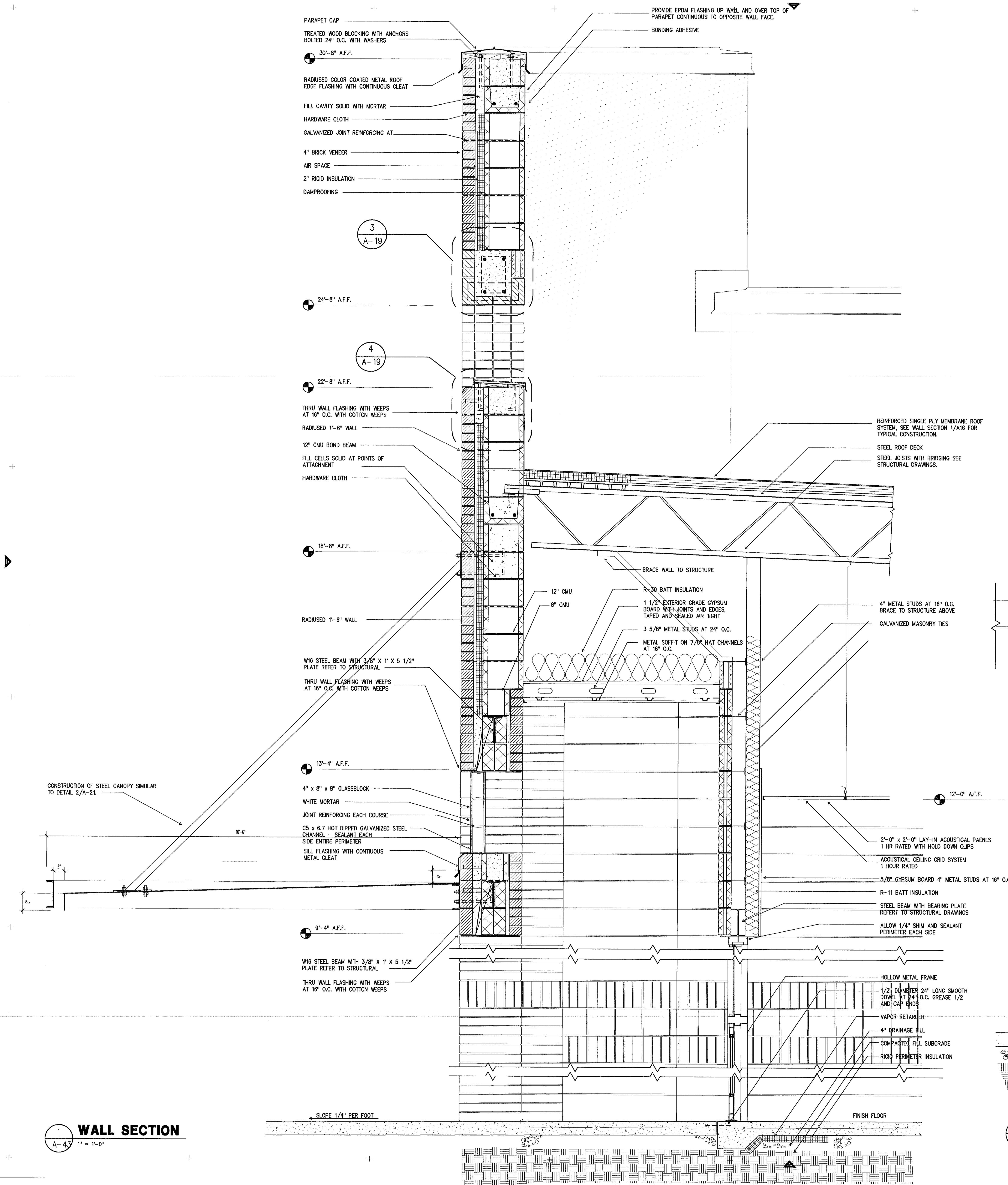
F9502.01
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01/15/96
date

sheet no. A-42 of: A-43

sheet no. A-42

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Revisions

New Havelock Middle School
Craven County
North Carolina

project title

WALL SECTIONS

sheet title scale:

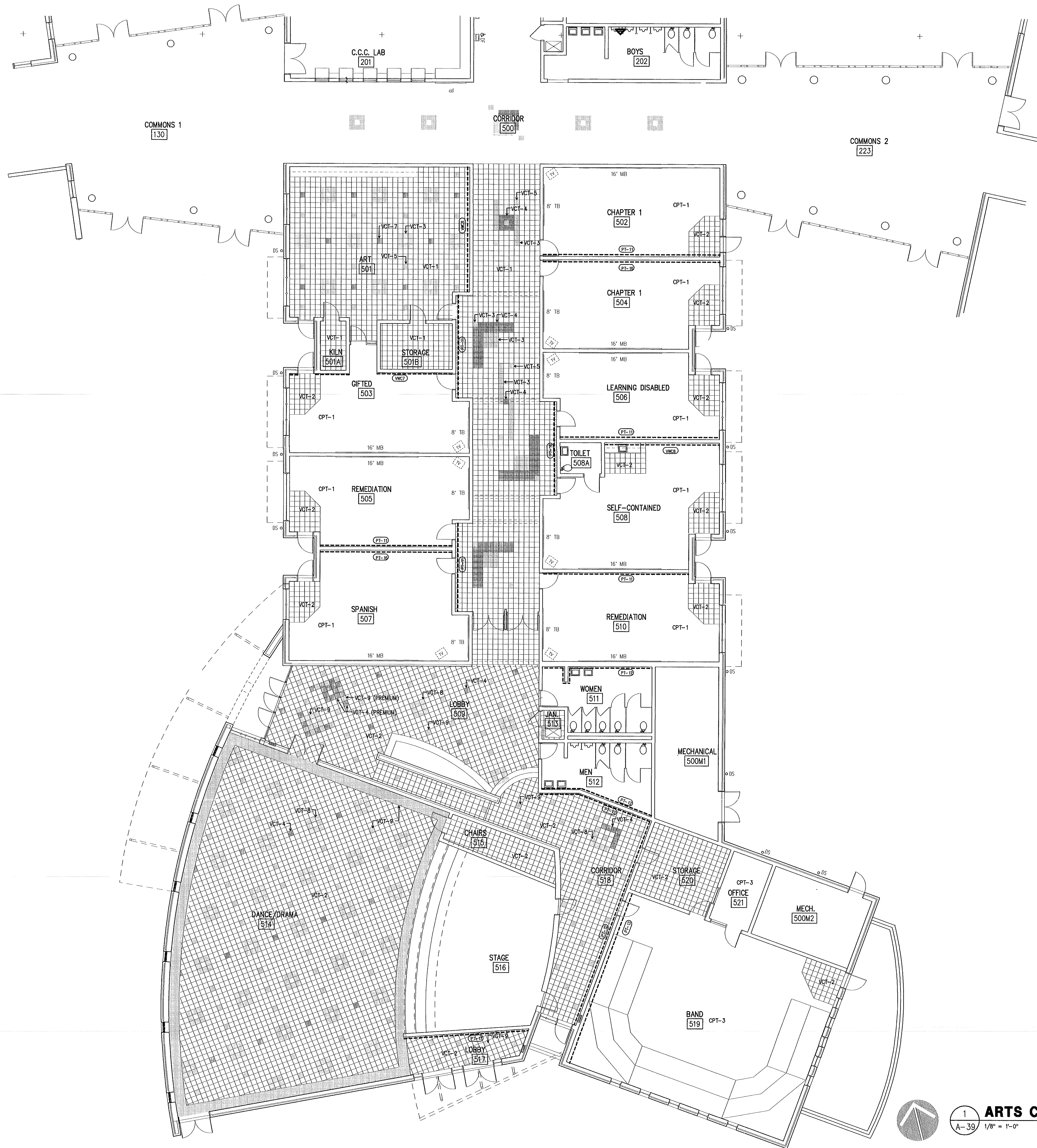
F9502.01
project no.

sheet no. **A-43** of: **A-43**

01/15/96
date

sheet no. **A-43**

released for construction



1
A-39 1/8" = 1'-0" **ARTS CENTER/EXPLORATORY WING**

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checked by:

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no.	description	date
6-8-98		

Revisions

New Havelock Middle School

Craven County
North Carolina

project title

**FLOOR PATTERN PLAN
ARTS CENTER/EXPLORATORY WING 500**

sheet title scale:

F8502.01 project no.	sheet no. A-44 of: A-44
1/30/96 date	sheet no. A-44

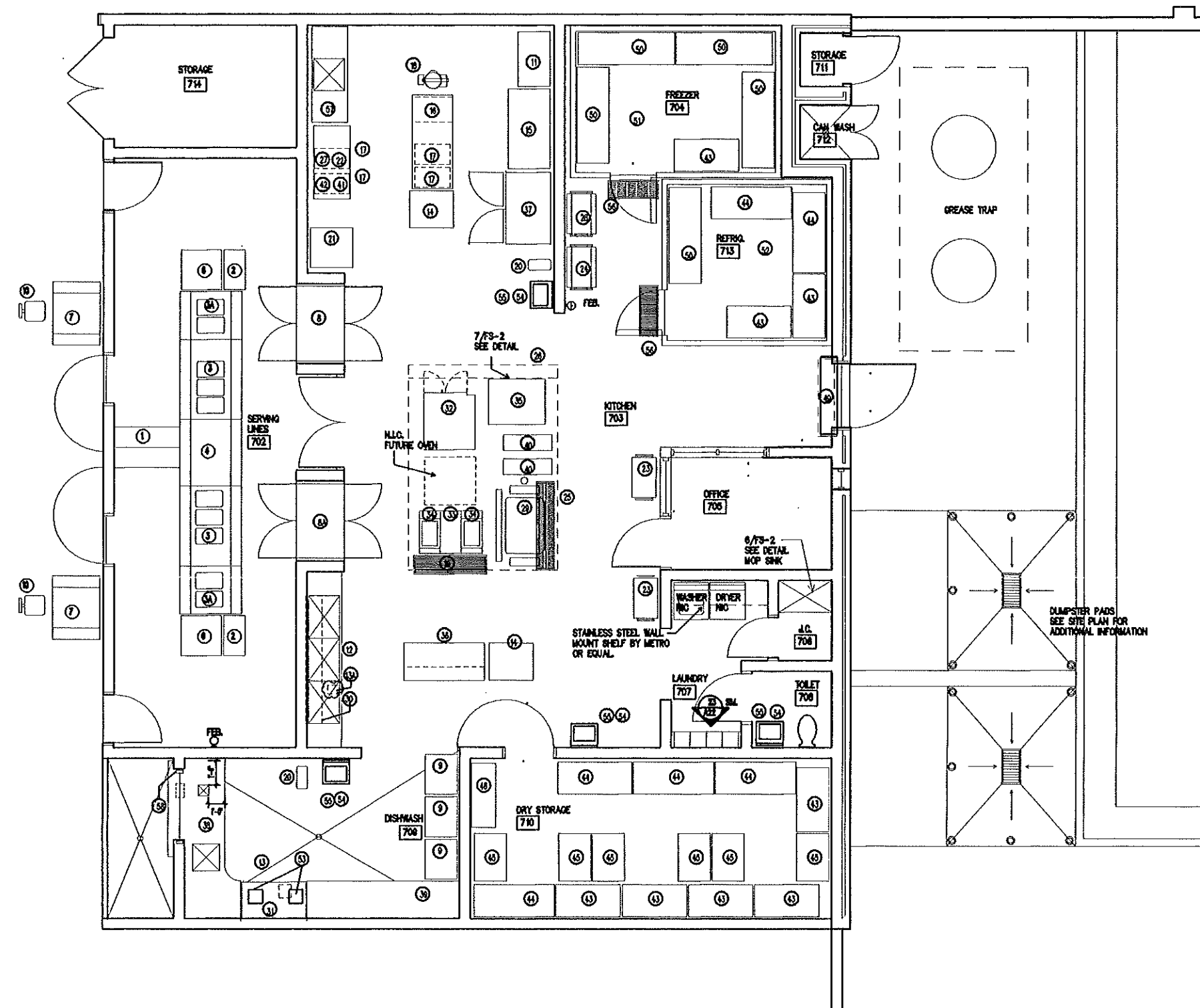
released for construction 2/1/96

FOOD SERVICE EQUIPMENT SCHEDULE

NO.	ITEM	QTY	MODEL NO.	MANUFACTURER	HT.	OPTION	OPTIONS	HP	KW	AMP	V/PH	CW	HW	WASTE	REMARKS
1	DOUBLE-SIDED OPEN-TOP MILK CASE DISPENSER	(1)	ST49N-W	BEVERAGE AIR	36"						1/120				
2	TUBULAR RACK DISPENSER	2	CPH-MRD-1014	COLORPOINT	36"			1/4			1/120				
3	HOT FOOD TABLE	2	K5E3-CPA-MOD60	COLORPOINT	36"						1/120				
3A	HOT FOOD TABLE	2	SE2-CPA	COLORPOINT	36"										
4	PORTABLE SOLID TOP TABLE	1	K50-ST	COLORPOINT	36"										
5	NOT USED														
6	SOLID TOP WITH SILVER NAPKIN CUTOUTS	2	K28-ST-EBMOD	COLORPOINT			AA								
7	CASHER STAND	1	E528RLS	CAMBRO											
8	REFRIGERATOR PASS THROUGH	1	GSA MTP1U	HOBART						8	120/1				
8A	HOT FOOD PASS THROUGH	1	GSA HFCPT	HOBART						8.6	120/1				
9	STAINLESS STEEL WIRE SHELVING	3	2430NS/63PS	METRO											
10	CASHER'S STOOL KRUEGER	(2)	ATUM-2127	KRUEGER											
11	STAINLESS STEEL WIRE SHELVING	1	2442NS/63PS	METRO											
12	(3) COMPARTMENT SINK W/DRAIN BOARDS	1	CUSTOM									1/2"	1/2"	2"	SEE DRAWINGS 1/FS-2
13	BOOSTER HEATER	1	C-54	HATCO			SS,TEMP. GA.,LT.,	54	65		480/3				
13A	SINK HEATER	1	3CS-4	HATCO			SS,TEMP. GA.,LT.,	59	43.3		208/1				
14	HOLDING PROOF CABINET	2	HA4522	WINSTON				2.17	18.1		120/1				
15	WORK CENTER - 2'-6" X 5'-0"	1	WT306FS-(2)WT051S	METRO											
16	BAKER'S TABLE	1	CUSTOM									1/2"	1/2"	2"	SEE DRAWINGS 2/FS-2
17	PLASTIC STORAGE BINS	4	IB36	CAMBRO											
18	60 QT. MIXER	1	H600	HOBART	60 QT. BOWL, 30 QT BOWL W/ ADAPTER	2 HP			10.7		208/3				SHREDDER BLADES, 9" VERTABLE SLICER
19	S.S. TRENCH DRAIN 1'-0" X 3'-6" & GRATE	1	CUSTOM												SEE DETAIL 10/FS-2
20	SPRAY REEL	2	MODEL 200	BUSBOY											MOUNT AT 42" A.F.F., SEE NOTE 7
21	ICE MAKER & STORAGE BIN	1	MH750/HTB500	SCOTSMAN				3/4	9		120/1				
22	WORK CENTER	1	WT306FS	METRO											
23	UTILITY CART (THREE SHELF)	2	MW204	METRO											
24	UTILITY CART	1	CD10HB	CAMBRO											
25	S.S. TRENCH DRAIN 1'-0" X 4'-0" & GRATE	1	CUSTOM												SEE DETAIL 10/FS-2
26	EXHAUST HOOD (BY MECHANICAL CONTRACT)														120" X 152" X 24"
27	FOOD PROCESSOR	1	FP-100	HOBART			3-PACK PLATES 1/2		60		120/60/1				
28	UTILITY CART	1	BC330	CAMBRO											
29	TILTING BRAISING PAN WITH FILL	1	SEL-40-T	CLEVELAND			HTS/PCS/FSSK STRAINER/IRS-S FILL		50		208/3				
30	STAINLESS STEEL SHELF - WALL MOUNT			METRO											
31	DISHWASH MACHINE	1	44KB	CHAMPION			VENT COWL		24		480/3				
32	STANDARD CONVECTION OVEN (TWO OVENS STACKED)	1	ES20CC	SOUTHBEND			6"LEGS/FAN DELAY								SEE ELECT. (E-4)
33	WORK CENTER	1	CUSTOM												SEE DRAWINGS 3/FS-2
34	ELECTRIC FRYER (FREE STANDING)	2	FM-H-17SC	FRYMASTER			COMPUTERIZED CONTROLS		17	48	208/3				
35	STEAMER WITH STAND	1	21 CET-16	CLEVELAND			MANUAL CONTROLS		16.5	46	208/3				
36	WORK CENTER W/2 DRAWERS & PAN RACK	1	CUSTOM												SEE DRAWINGS 4/FS-2
37	REFRIGERATED FOOD CABINET	1	QS/2	HOBART						11.2	120/1				SEE NOTE 8
38	S.S. DISH RETURN COUNTER Counter	1	CUSTOM												SEE DRAWINGS 5/FS-2
39	CLEAN DISH TABLE	1	CUSTOM												SEE DRAWINGS 6/FS-2
40	6-GAL. KETTLE WITH STAND	1	KET-6-T	CLEVELAND			STD-28		4.1	19.7	208/1				
41	SLICER	1	1712	HOBART				1/4	7.2		120/1				
42	CAN OPENER	1	266	EDLUND					< 5		120/1				
43	SHELVING: 2'-0" X 4'-0"	(8)	2448GX/72PX	METRO											
44	SHELVING: 2'-0" X 5'-0"	(6)	2460GX/72PX	METRO											
45	SHELVING: 2'-0" X 3'-0"	(6)	2436GX/72PX	METRO											
46	SHELVING: 1'-6" X 4'-0"	1	1848GX/72PX	METRO											
47	NOT USED														
48	NOT USED														
49	FLY FAN	1	48CH	MARS				1/2	9.8		120/1				MOUNT AT 8'-0" A.F.F. AND PROVIDE DOOR SWITCH
50	SHELVING 2'-0" X 6'-0"	(4)	2472GX/72PS												
51	WALK-IN FREEZER	1		W.A. BROWN											9'-8" X 15'-5" X 9'-6"HT NOTE 9
52	WALK-IN REFRIGERATOR	1		W.A. BROWN											9'-8" X 11'-7" X 9'-6"HT NOTE 9
53	PANT-LEG STAINLESS STEEL DUCT	1													CONNECT TO VENT COWLS AS REQ'D BY MFR.
54	PAPER TOWEL DISPENSER	4	B-262	BOBRICK											PROVIDE ONE AT EACH LAVATORY
55	SOAP DISPENSER	4	B-112	BOBRICK											PROVIDE ONE AT EACH LAVATORY
56	STAINLESS TRENCH DRAIN 12" X 36" & GRATE	2	CUSTOM												SEE 10/FS-2
57	VEGETABLE SINK PREP TABLE	1	CUSTOM												SEE DRAWINGS 8/FS-2
58	SILVERWARE CHUTE	1	CUSTOM												SEE DRAWINGS 3/FS-1

REMARKS: PROVIDE THE FOLLOWING LIST OF ACCESSORIES FOR UNITS.

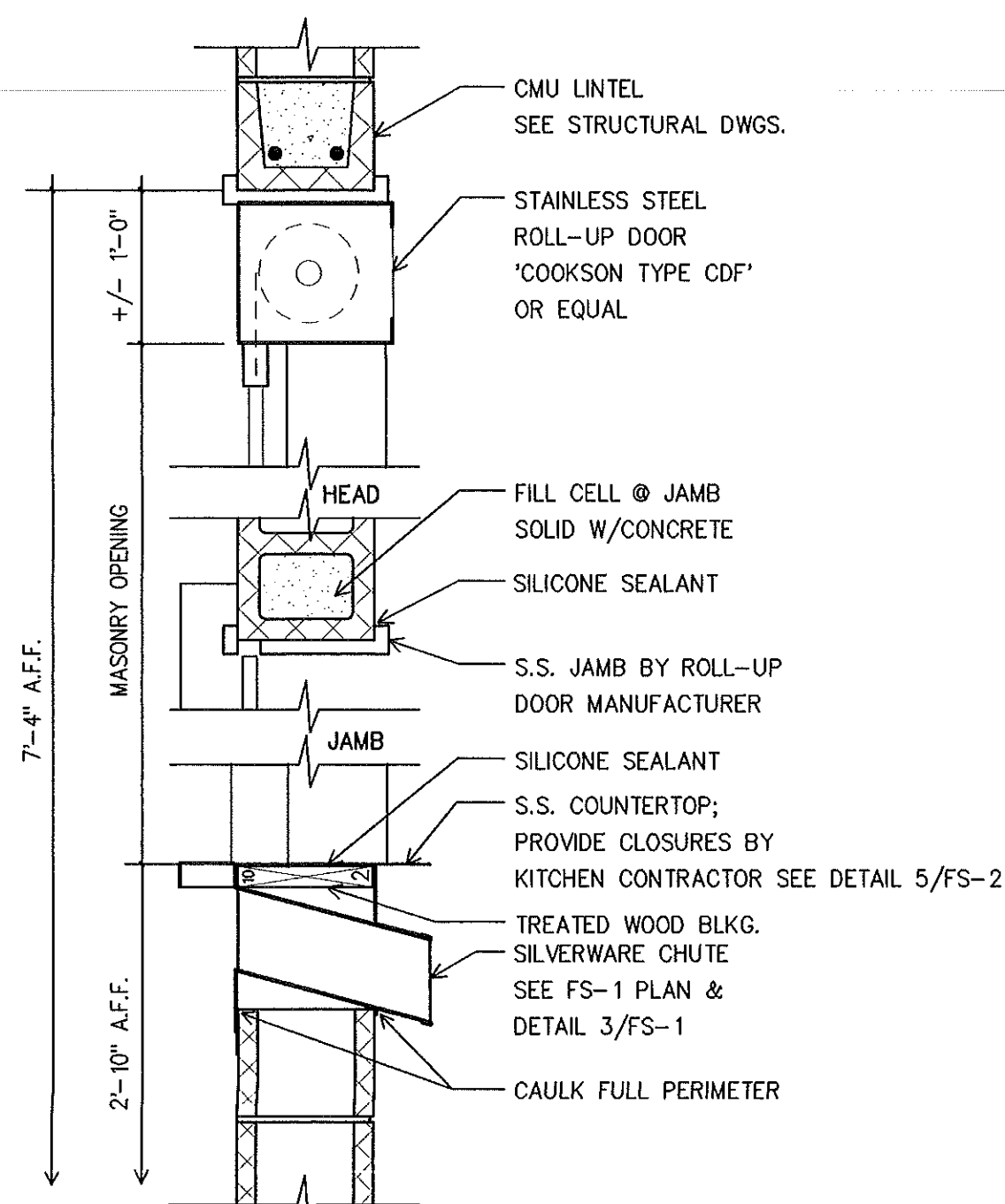
- PROVIDE MIXING VALVE, SERVICE STOP, CHECK VALVE
- LINING IS TO BE ONE OF 2 APPROVED FINISHES: 1) STAINLESS STEEL OR 2) ONE PIECE ABS MATERIAL WITH MOLDED SHELF SUPPORTS.
- EXTERIOR FINISH FOR WALK-IN IS TO BE STIPPLED STAINLESS STEEL.



1 ENLARGED KITCHEN PLAN

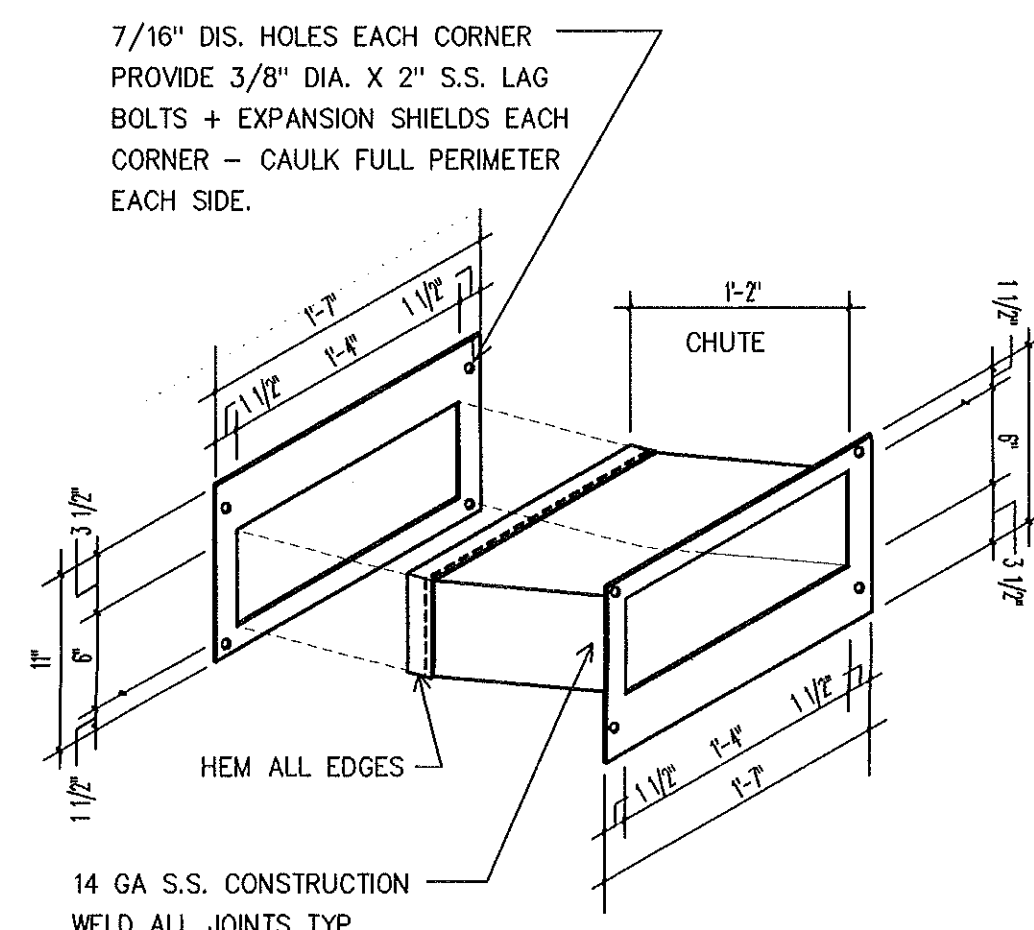
1/4" = 1'-0"

NOTE: REFER TO PLUMBING PLAN 1/P4 FOR ALL FLOOR DRAIN LOCATIONS AND ADDITIONAL INFORMATION.



2 ROLL-UP DOOR & TRAY RETURN

1" = 1'-0"

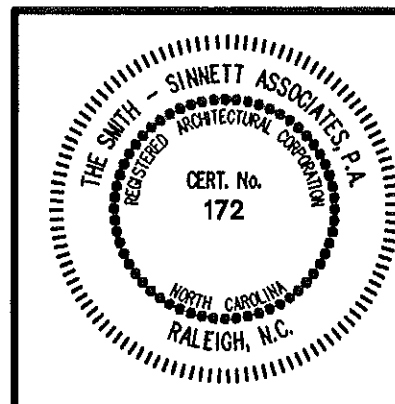


3 SILVERWARE DEPOSIT CHUTE

1" = 1'-0"

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Project Engineer: LFC

drawn by: RA

checked by: RA

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RECORD DRAWINGS

6-8-98

no. description date

Revisions

New Havelock Middle School

Craven County
North Carolina

project title

KITCHEN PLAN
KITCHEN EQUIPMENT SCHEDULE

sheet title scale:

F9502.01

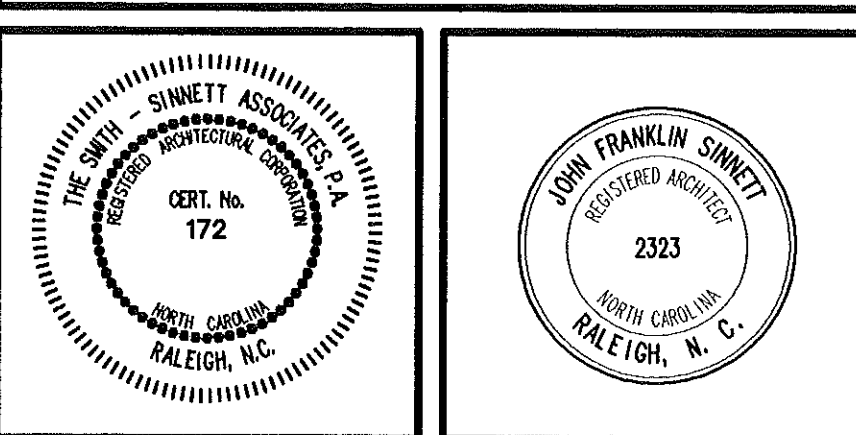
project no.

sheet no. 1 of: 2

1/15/98
dateFS-1
sheet no.

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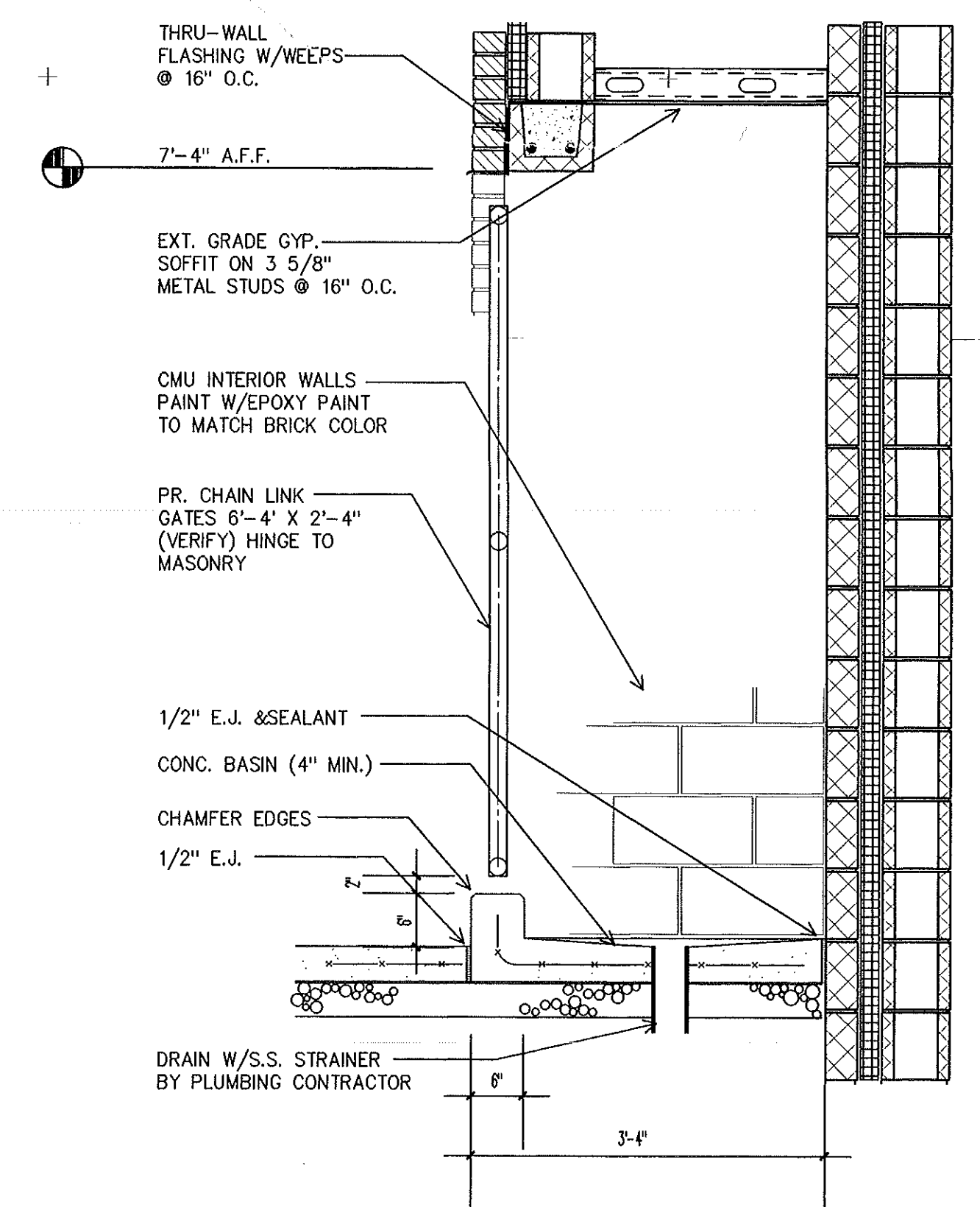
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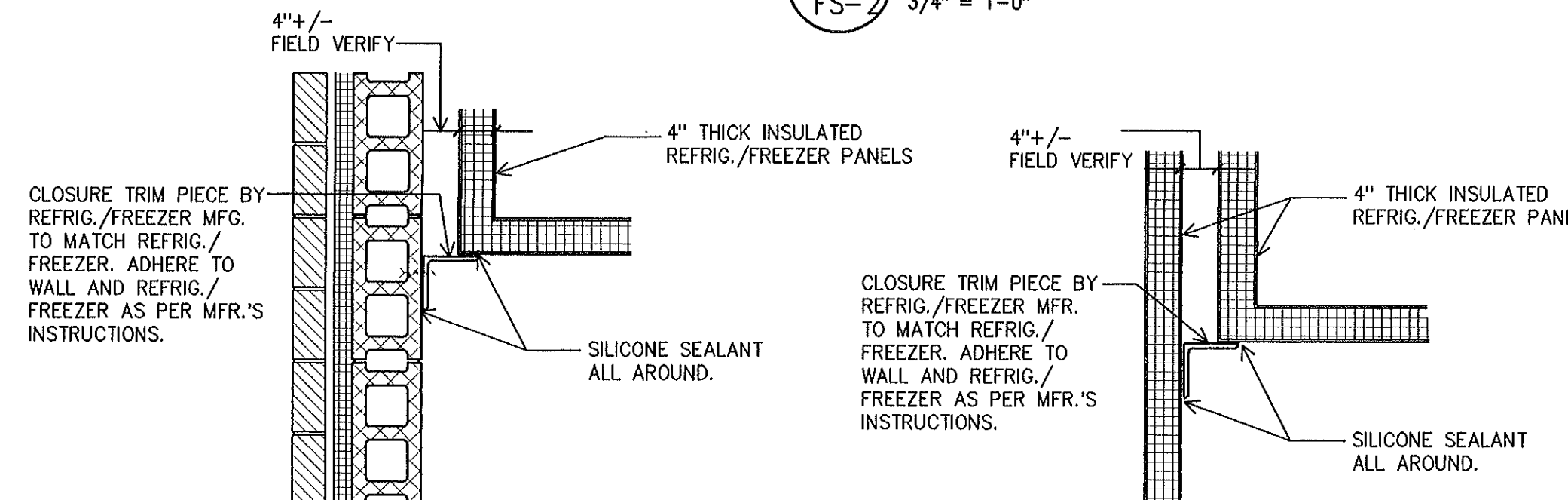
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Craven County
North Carolina

project title

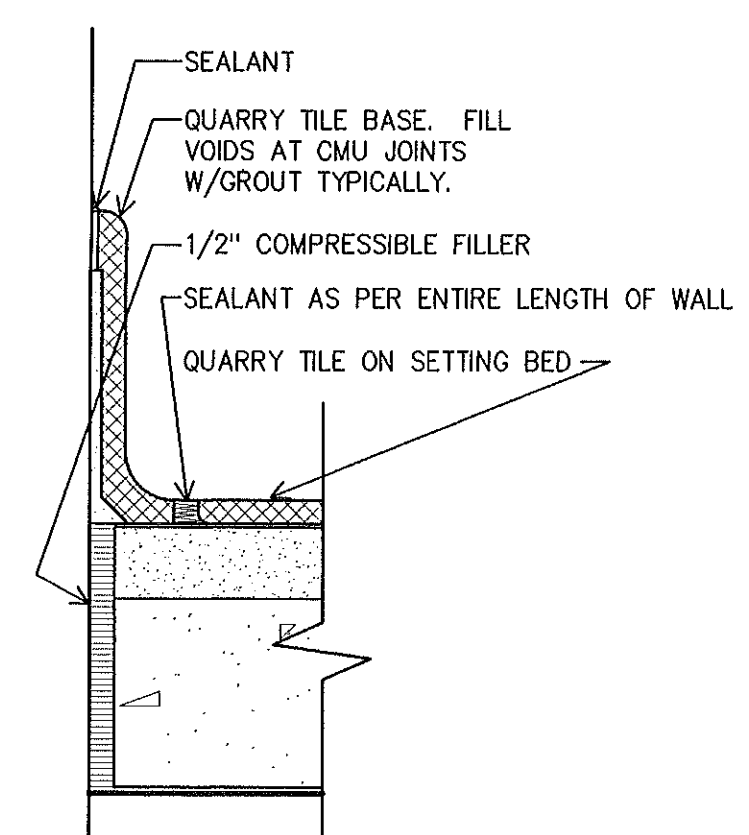
KITCHEN EQUIPMENT DETAILS		
sheet title	scale:	
F9502.01	project no.	sheet no. 2 of 2
1/15/96	date	sheet no. FS-2



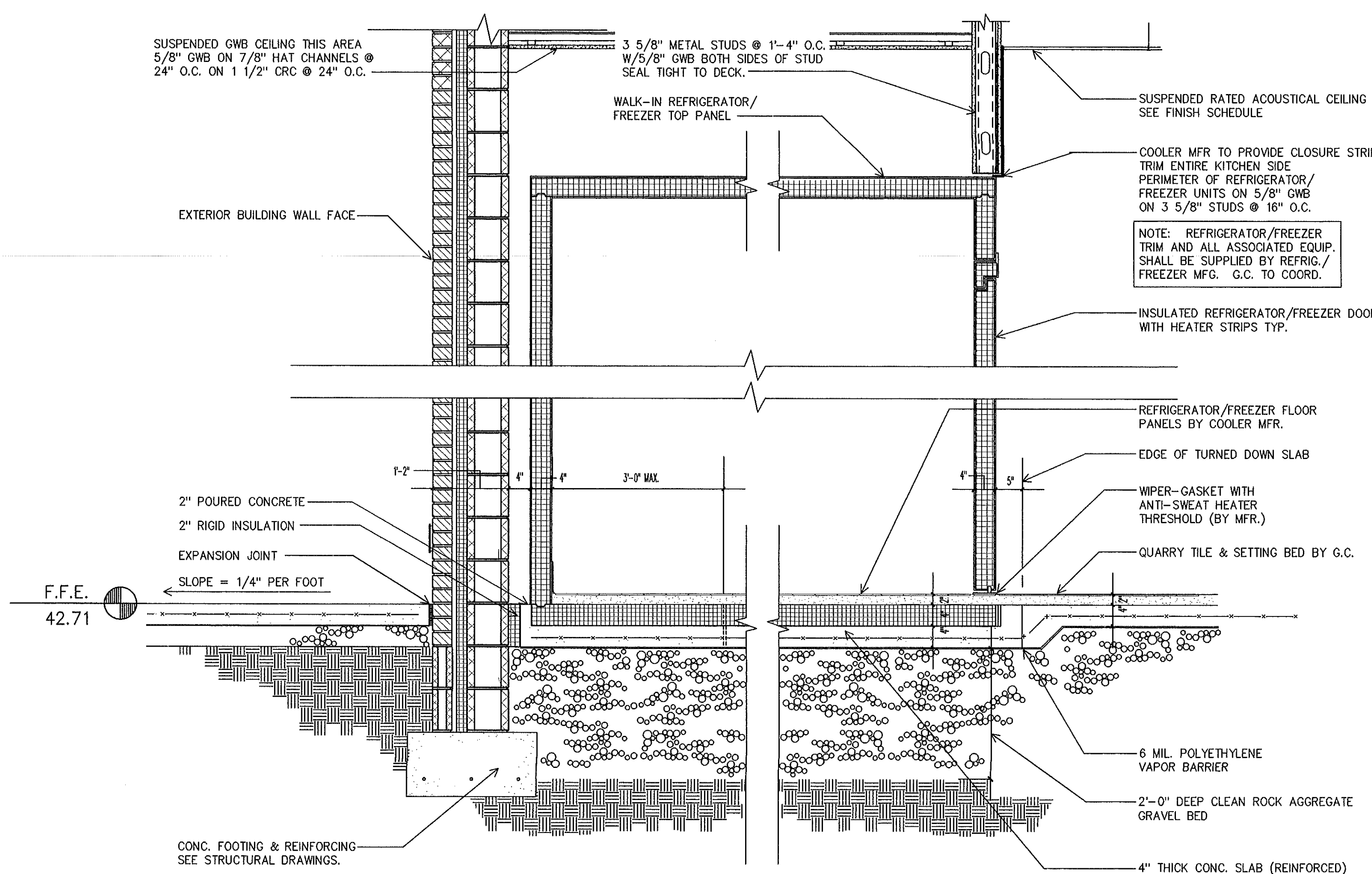
11 SECTION AT CAN WASH
FS-2 3/4" = 1'-0"



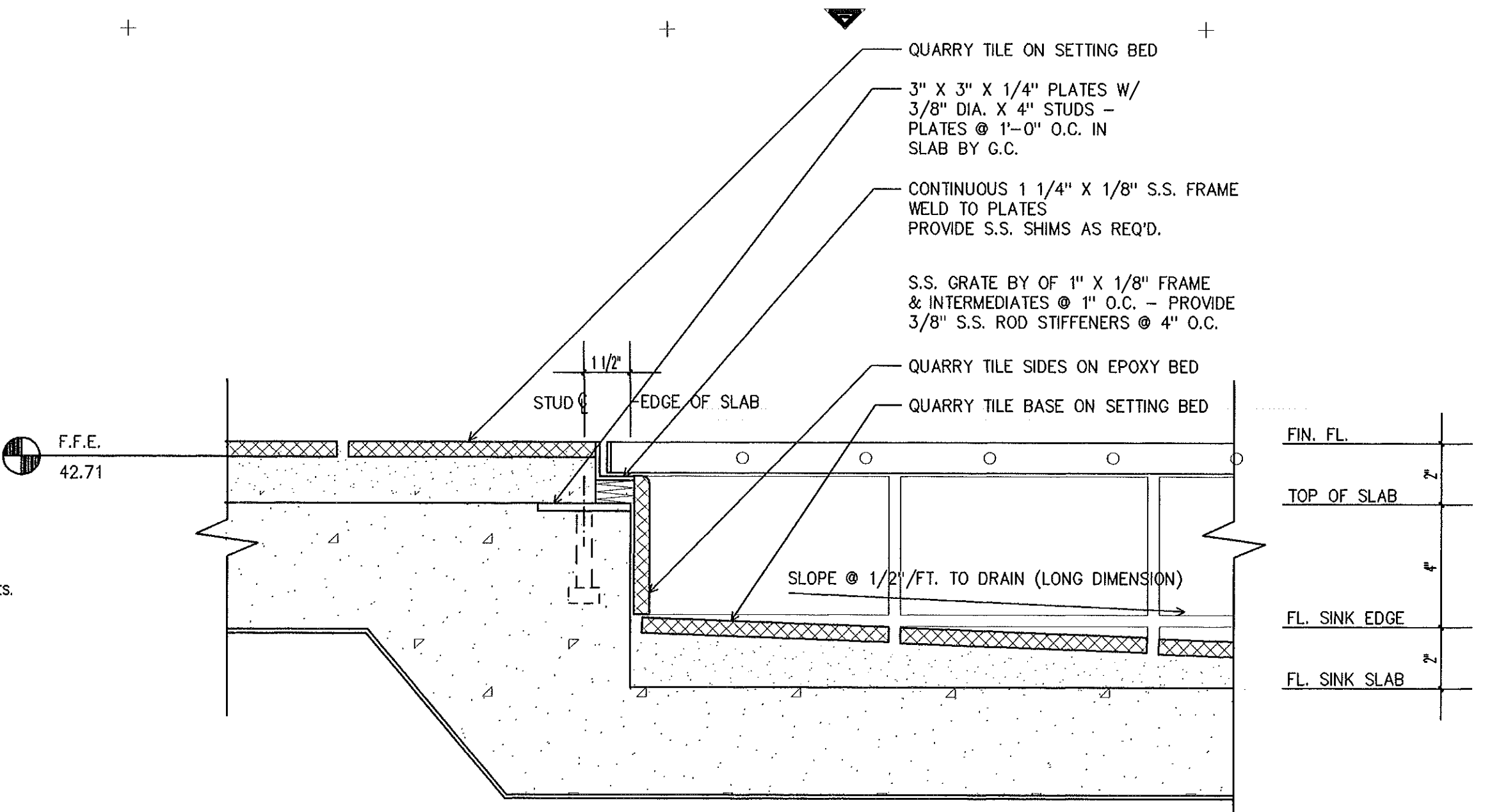
12 CLOSURE DETAIL FS-2 3/4" = 1'-0"
13 CLOSURE DETAIL FS-2 3/4" = 1'-0"



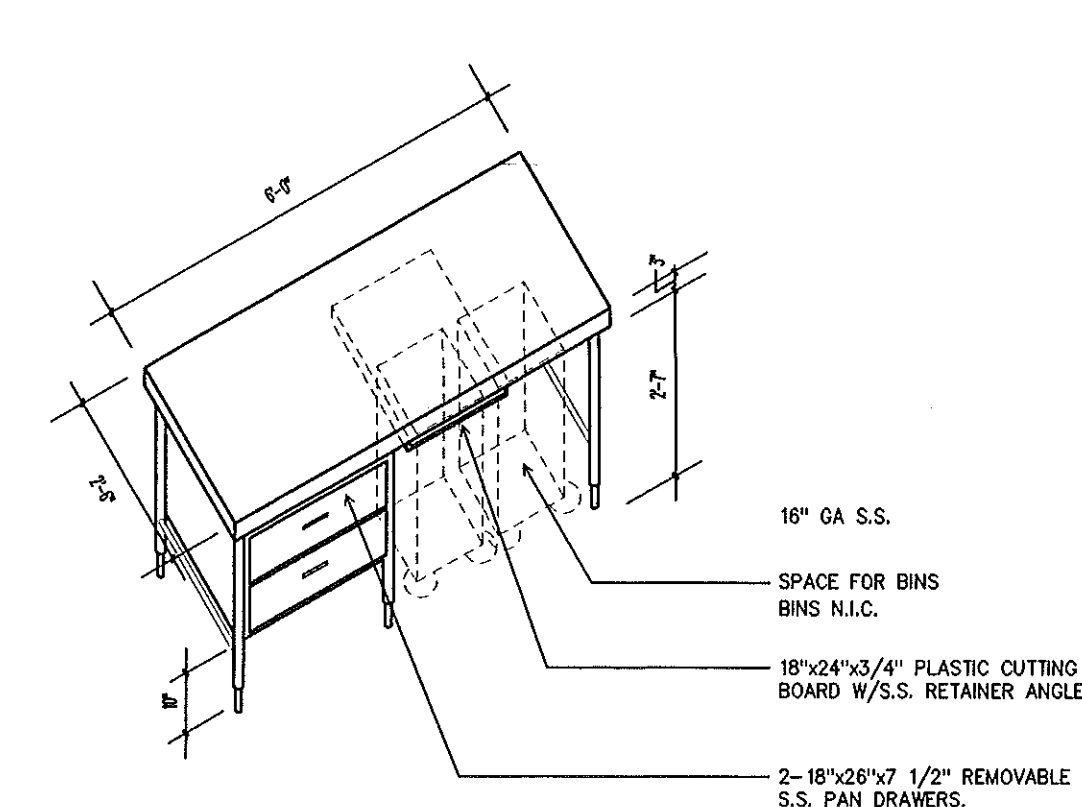
15 Q.T. BASE DETAIL
FS-2 3" = 1'-0"



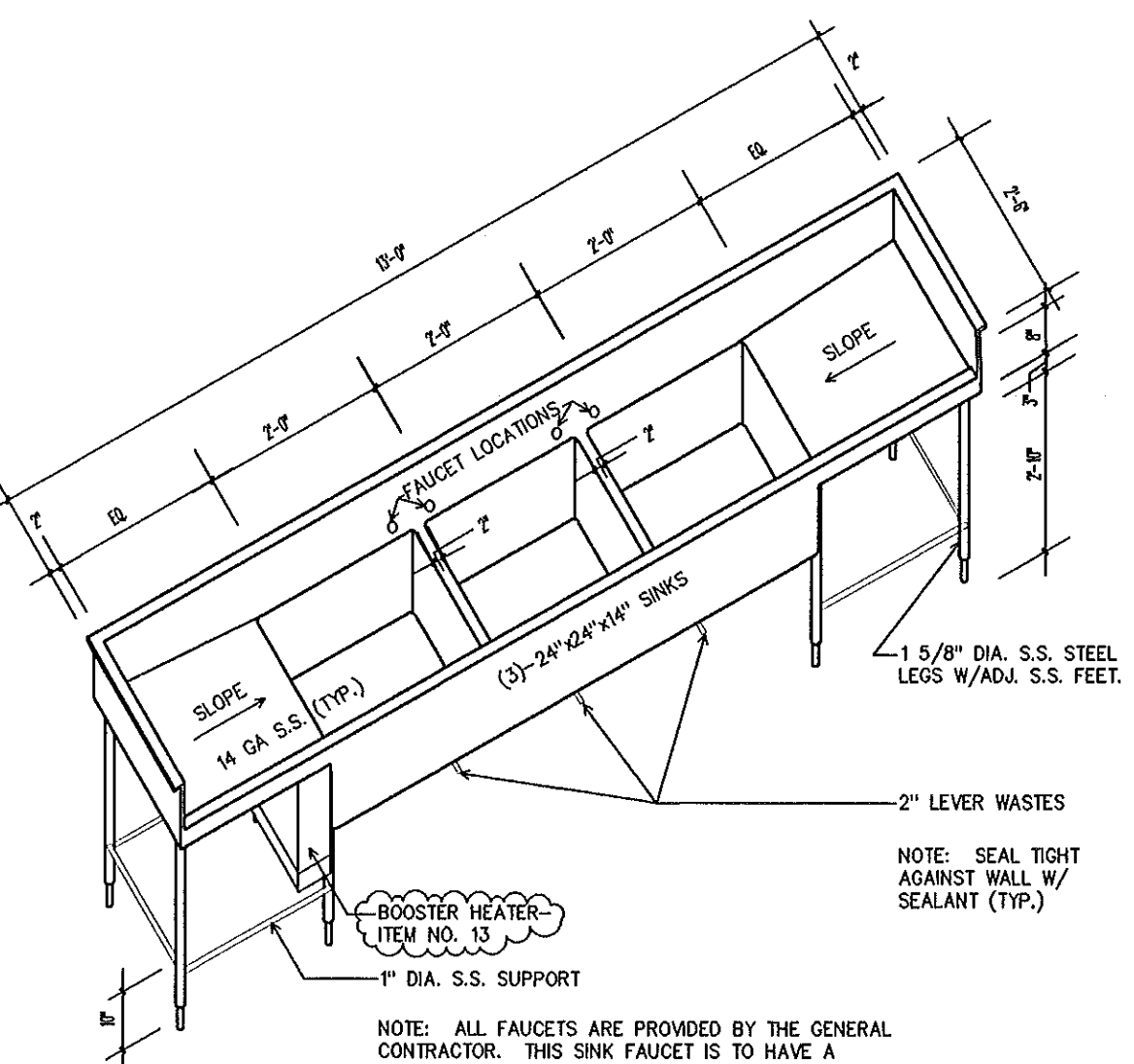
14 SECTION AT WALK-IN REFRIGERATOR
FS-2 3/4" = 1'-0"



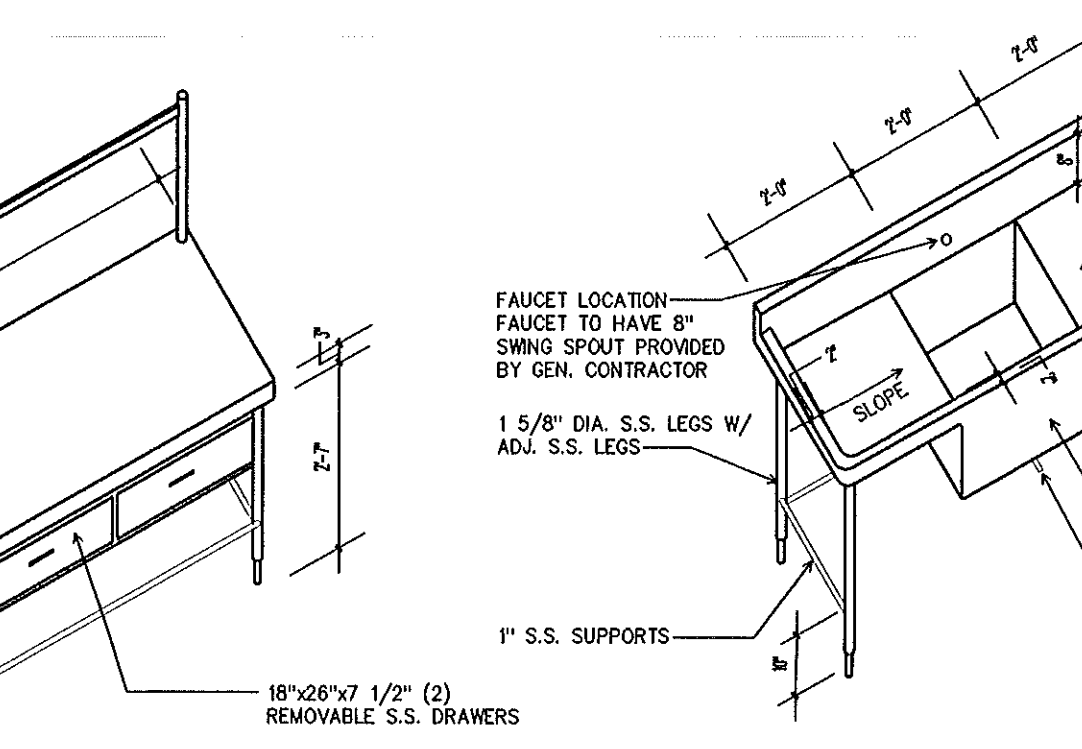
10 DETAIL AT TRENCH DRAIN
FS-2 3" = 1'-0"



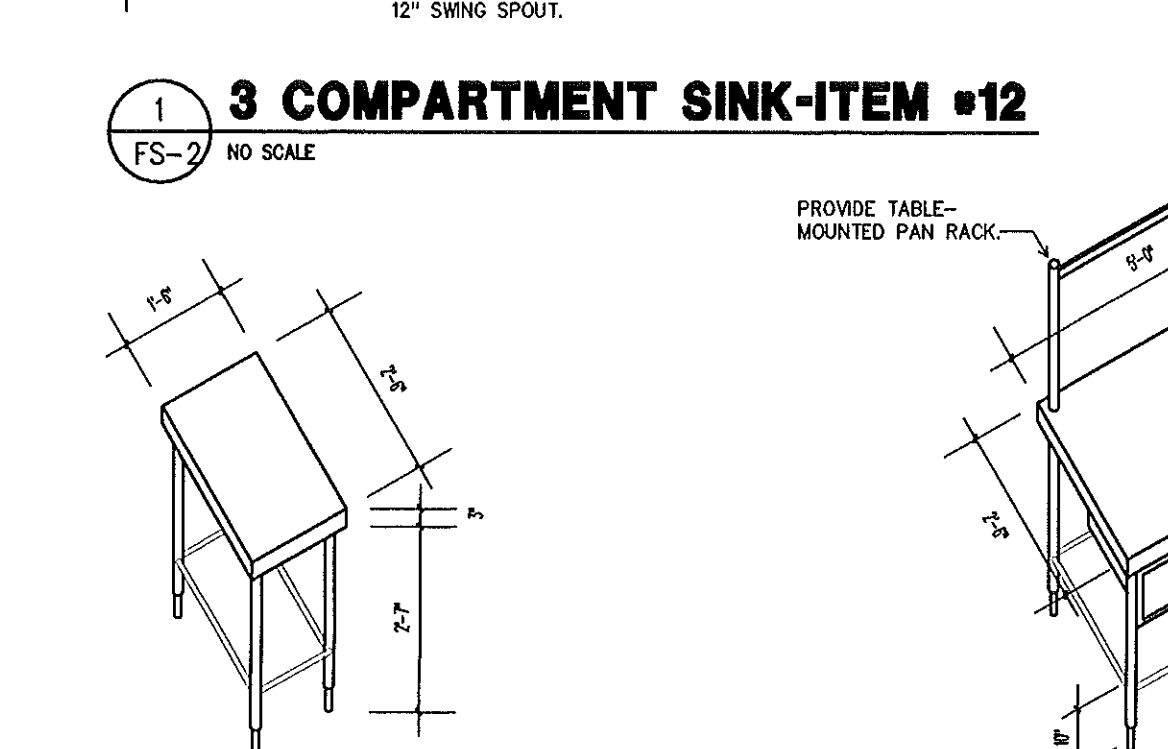
2 BAKER'S TABLE-ITEM #16
FS-2 NO SCALE



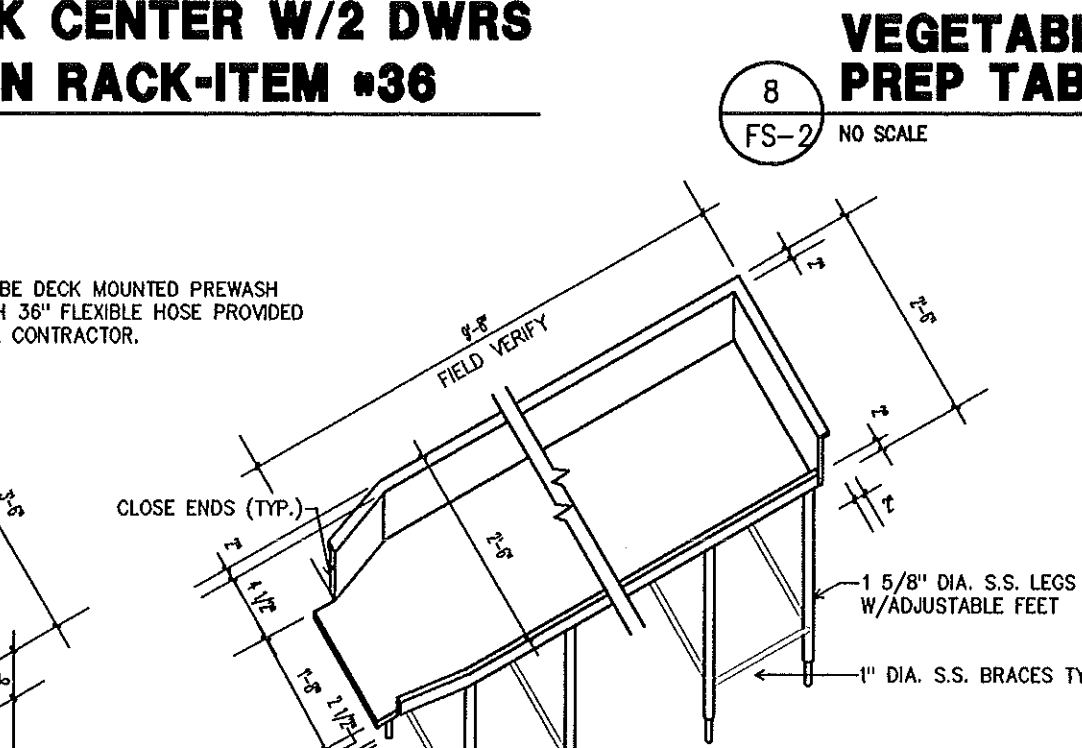
3 3 COMPARTMENT SINK-ITEM #12
FS-2 NO SCALE



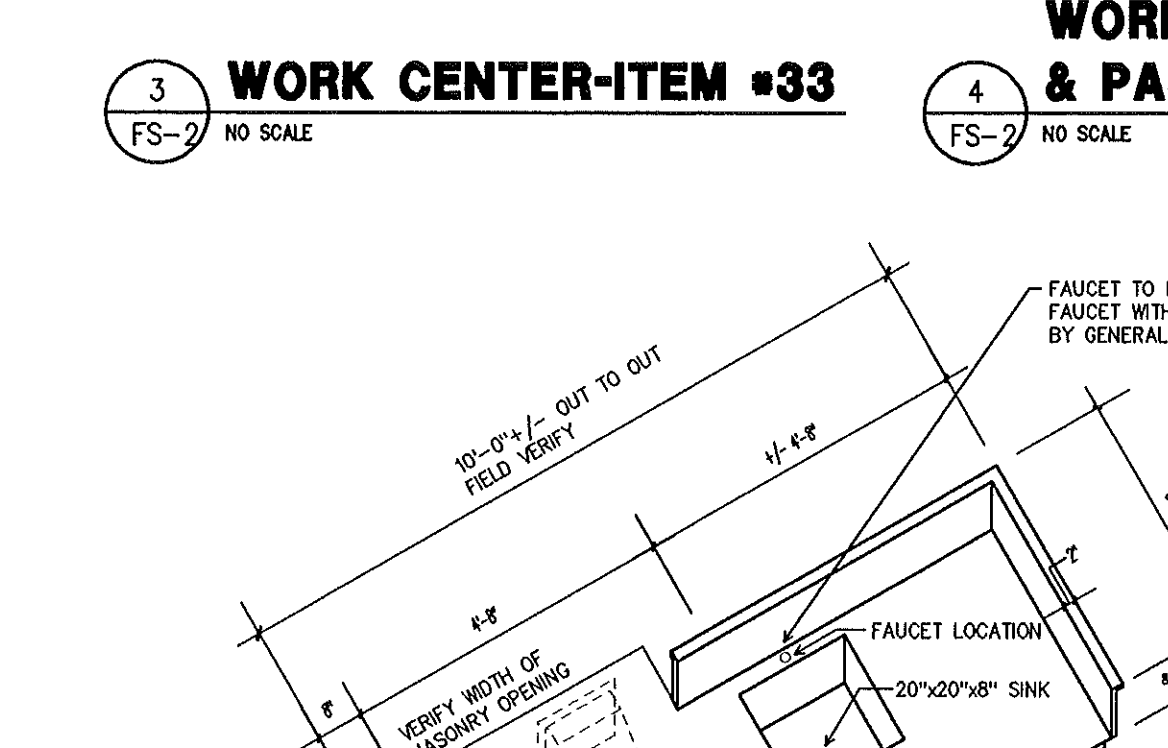
4 WORK CENTER W/2 DWRS & PAN RACK-ITEM #36
FS-2 NO SCALE



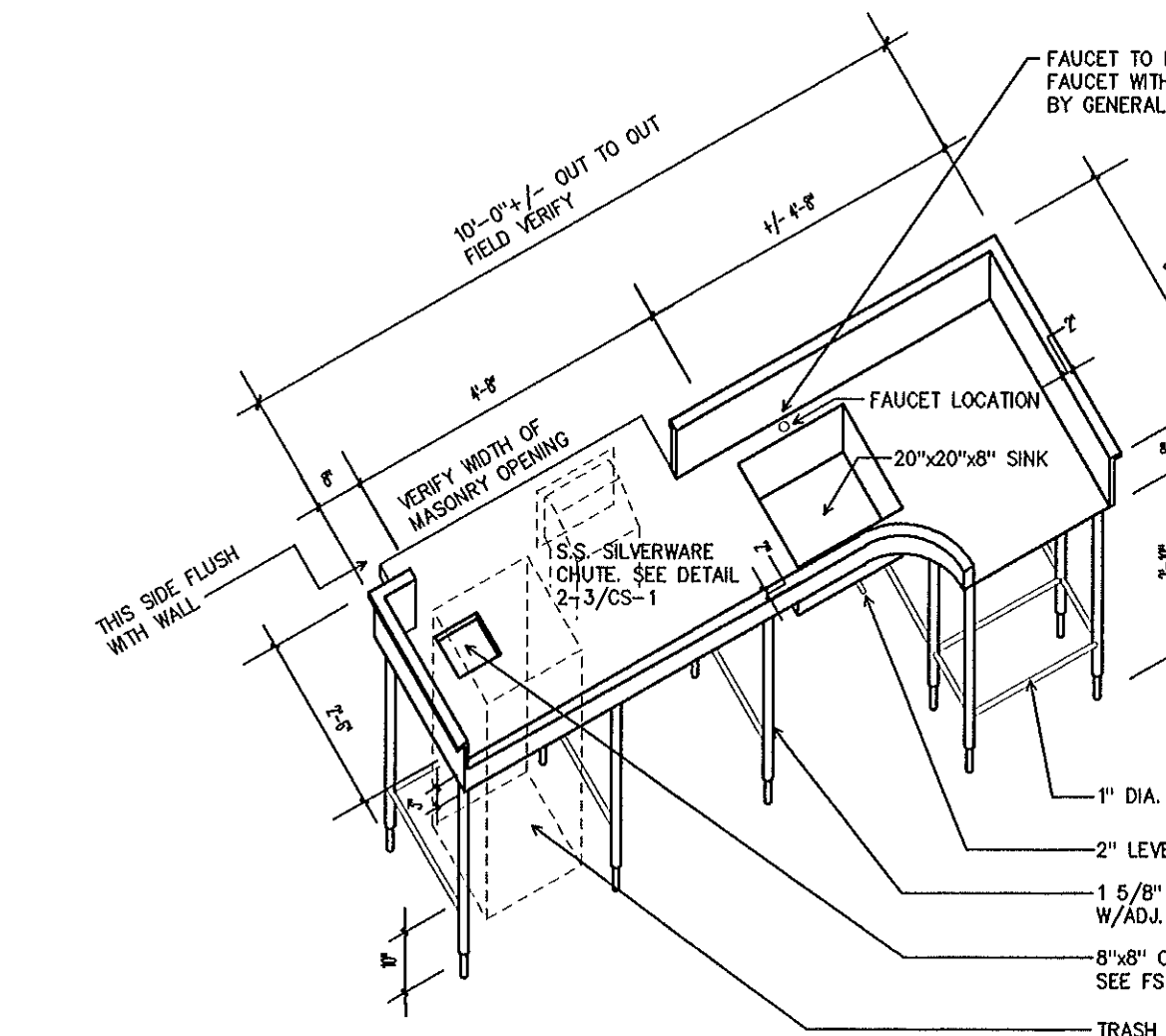
3 WORK CENTER-ITEM #33
FS-2 NO SCALE



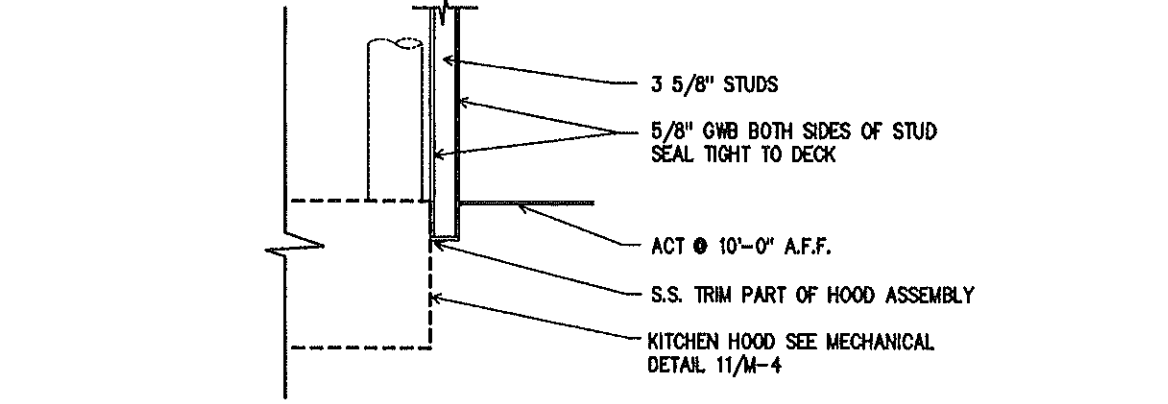
8 VEGETABLE SINK PREP TABLE-ITEM #57
FS-2 NO SCALE



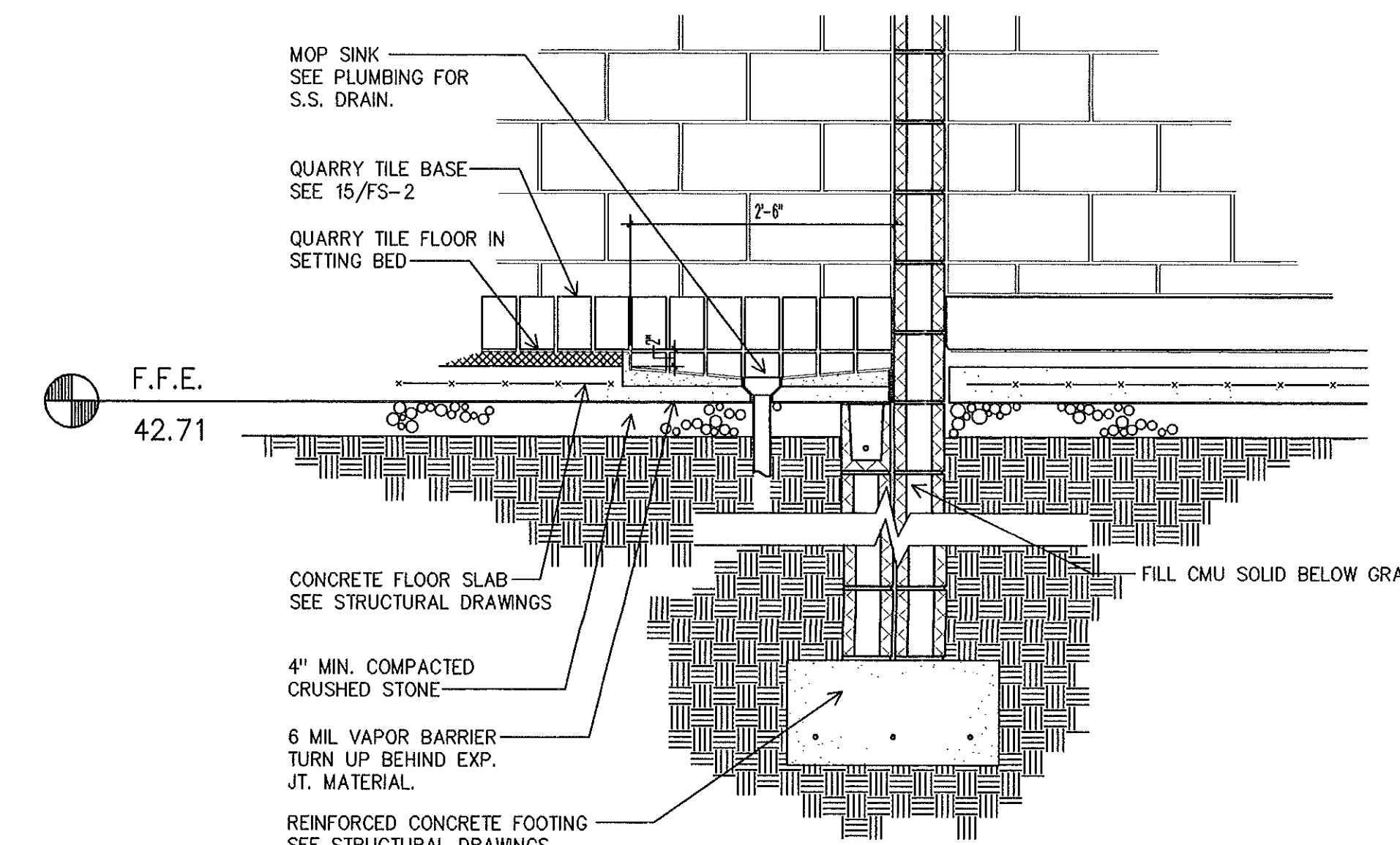
6 CLEAN DISH TABLE-ITEM #39
FS-2 NO SCALE



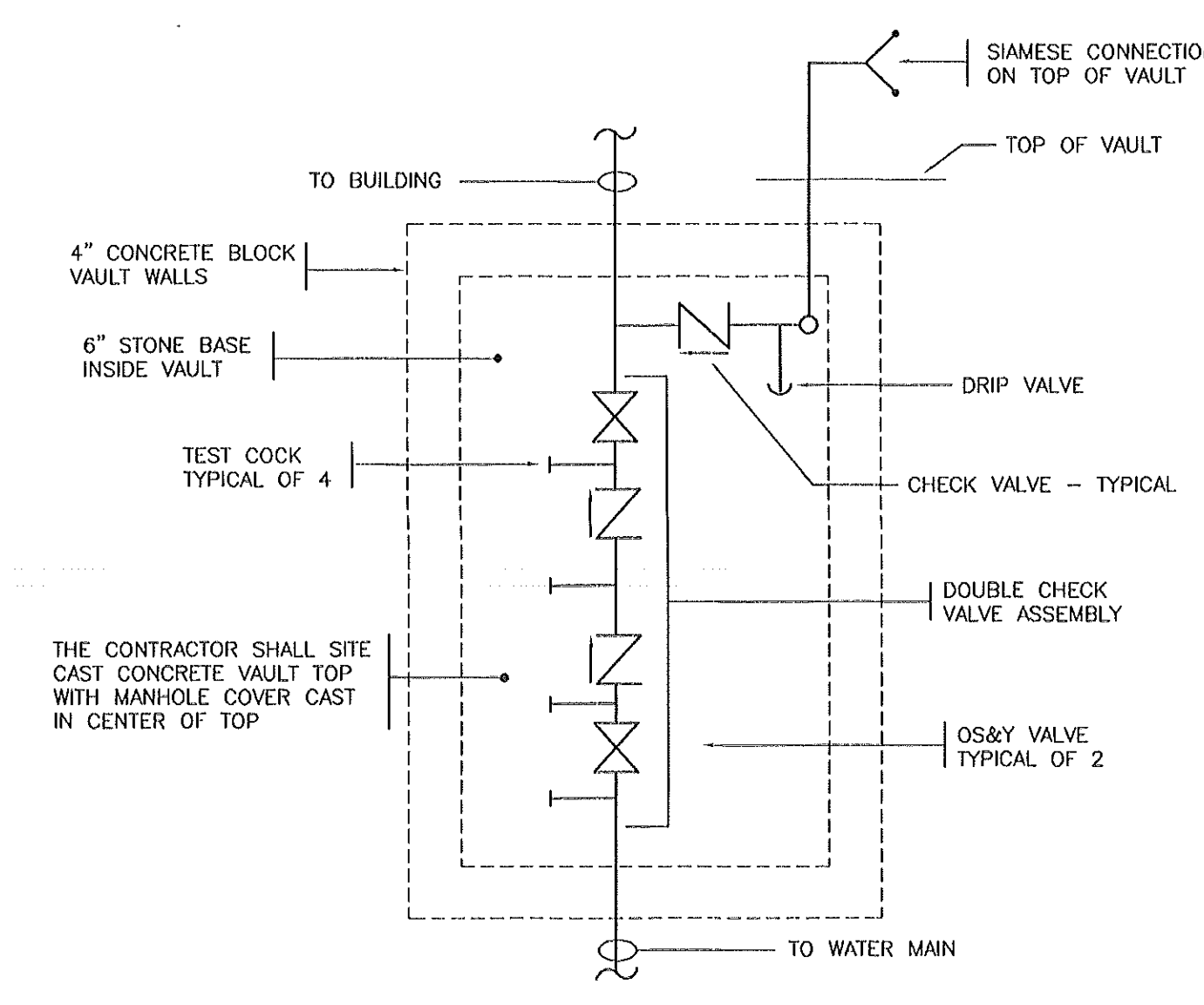
5 DISH RETURN COUNTER-ITEM #38
FS-2 NO SCALE



7 SECTION THRU HOOD-ITEM #26
FS-2 NO SCALE



9 MOP SINK DETAIL
FS-2 3/4" = 1'-0"



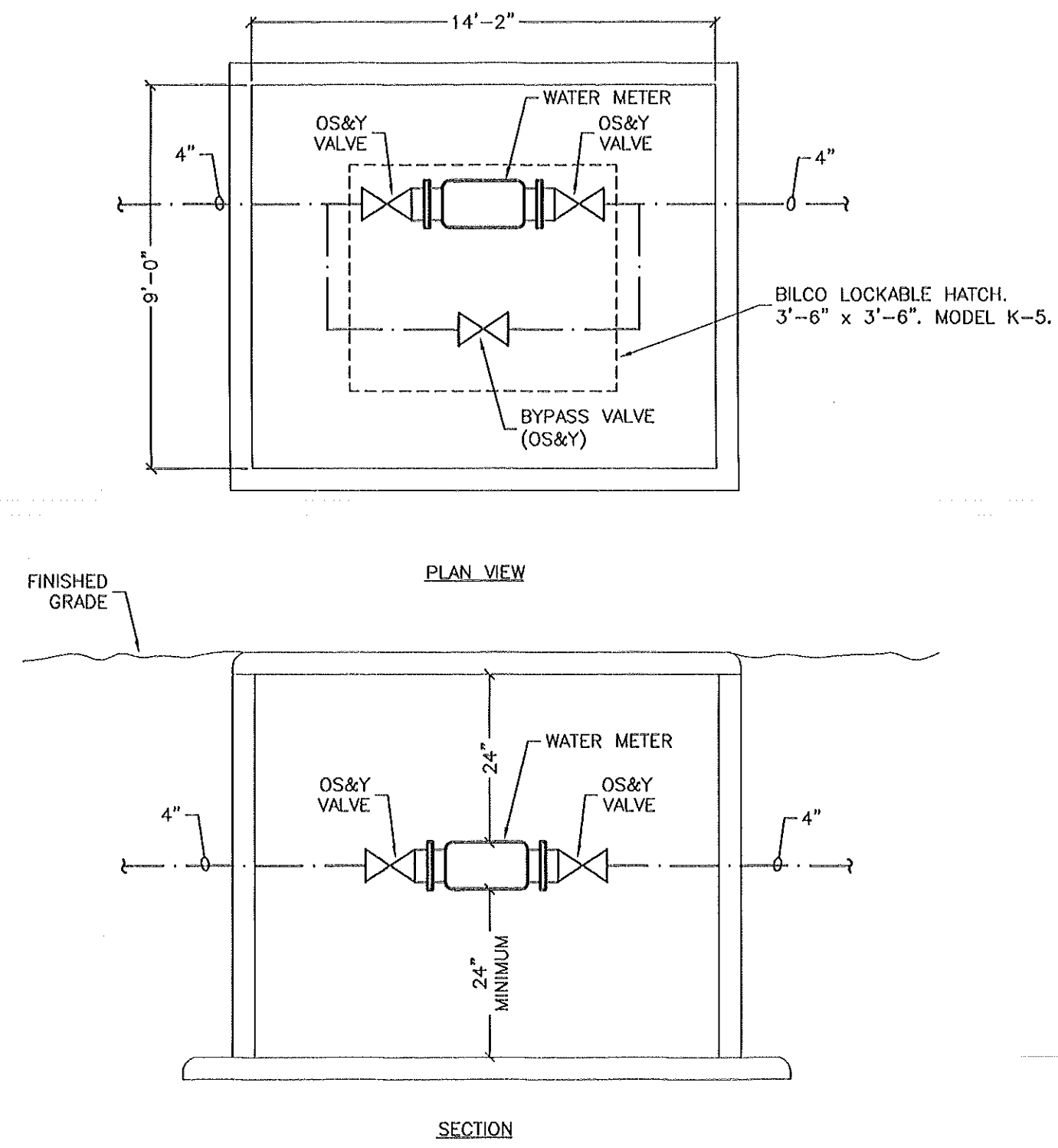
NOTES :

1. ALL MATERIALS, VALVES, MANHOLE FRAMES AND COVERS, ETC. SHALL BE CONSTRUCTED, INSPECTED AND APPROVED, AND SHALL COMPLY FULLY WITH THE LOCAL, CITY OR COUNTY STANDARDS AND SPECIFICATIONS. LENGTH, WITH AND DEPTH OF VAULT SHALL BE AS NECESSARY FOR INSTALLATION AND MAINTENANCE OF DOUBLE CHECK VALVE ASSEMBLY.
2. THE DOUBLE CHECK VALVE ASSEMBLY SHALL BE WATTS #709-OSY OR EQUAL AND SHALL MEET AWWA C506, FCCOH OF USC AND A.S.S.E. NUMBER 1015 STANDARDS.

DOUBLE CHECK VALVE ASSEMBLY AND VAULT SCHEMATIC

DETAIL
NOT TO SCALE

02



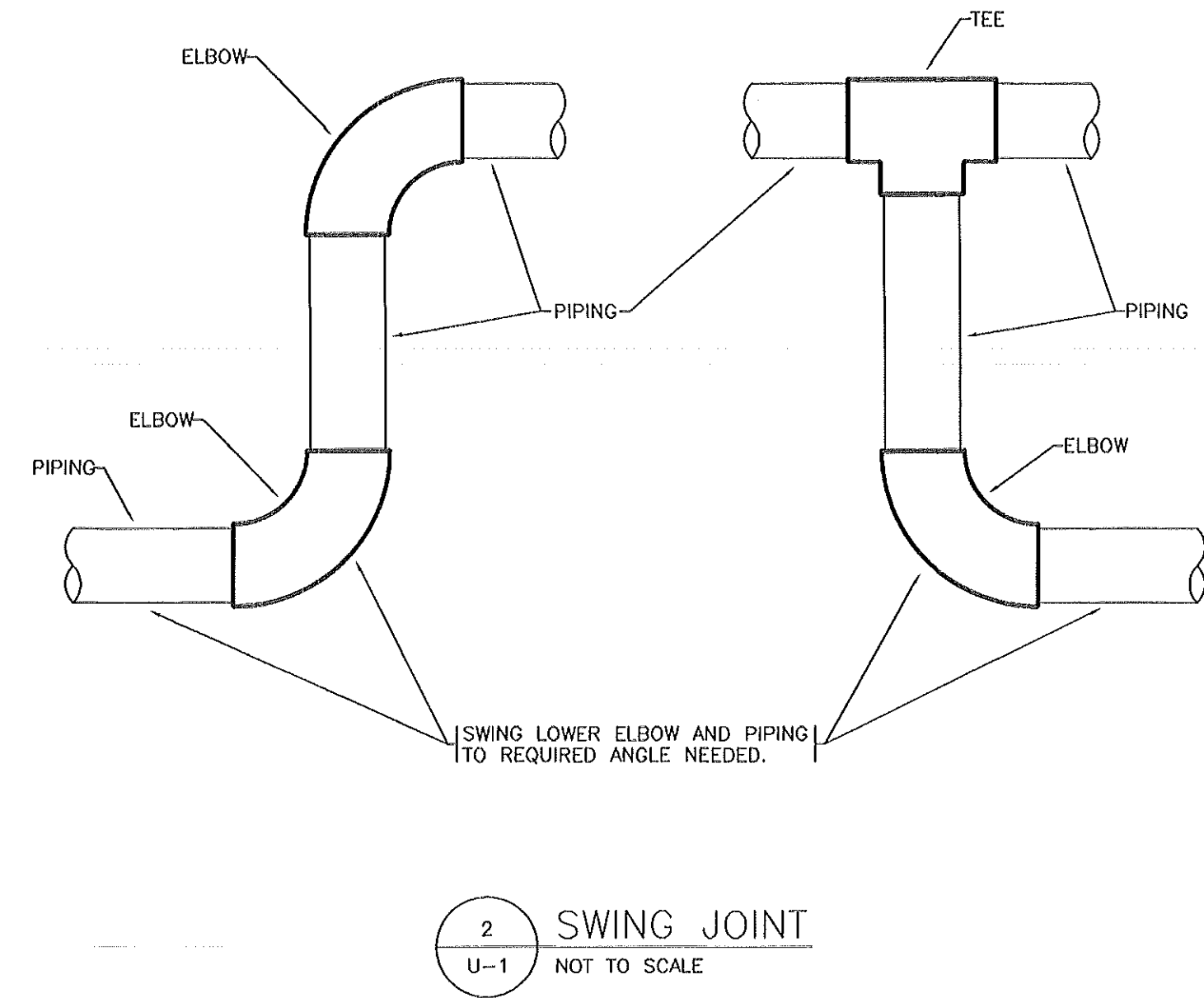
NOTES :

1. TOP OF METER PIT SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
2. PROVIDE AND INSTALL A PRECISION REMOTE PC-V 4" COMPOUND METER WITH REMOTE READOUT OR EQUIVALENT.
3. PROVIDE AND INSTALL A 2" TEST PLUG BETWEEN METER AND OUTLET VALVE.

WATER METER

DETAIL
NOT TO SCALE

01

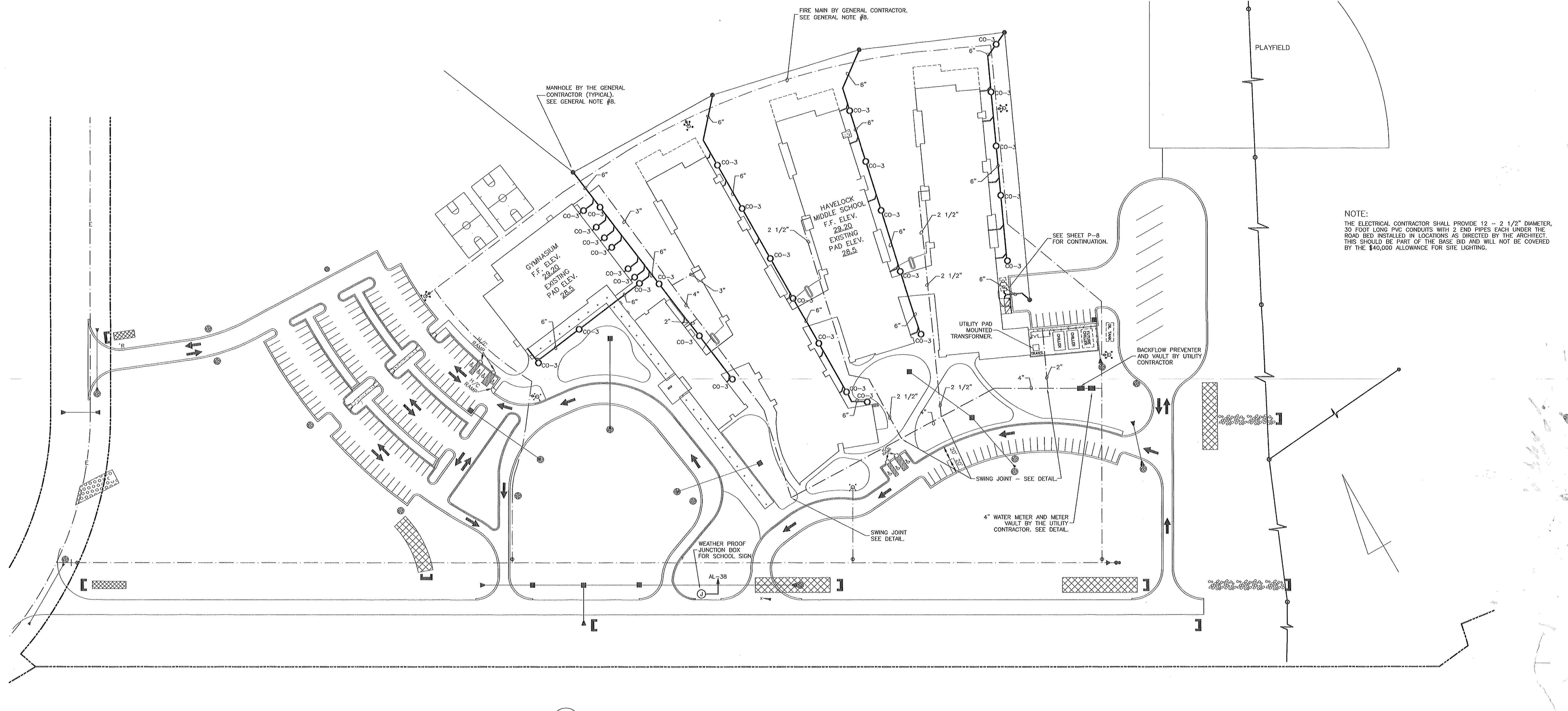


SYMBOL LEGEND

SYMBOL	DESCRIPTION
	WASTE PIPING
	CLEANOUT AT FINISHED FLOOR OR GRADE
	POINT OF CONNECTION
	PAD MOUNTED UTILITY TRANSFORMER BY UTILITY COMPANY

GENERAL NOTES

1. IT IS EACH CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND UTILITIES, STORM DRAINS, ETC., WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS, AND TO AVOID CONFLICT OF HIS INSTALLATION WITH SAME. REPAIRS OF DAMAGE SHALL BE AT NO ADDITIONAL COST TO THE OWNER. ALL REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER.
2. MARKER TAPES SHALL BE USED IN ALL TRENCHES. THE TAPE SHALL BE 12" BELOW FINISHED GRADE OVER PIPING AND CONDUITS.
3. THE PLUMBING CONTRACTOR SHALL REFER TO THE GENERAL NOTES ON SHEET P-1 FOR NOTES PERTAINING TO THE WATER AND SEWER INSTALLATION, IN ADDITION TO THE NOTES ON THE UTILITY SITE PLAN.
4. EACH CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.
5. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION, AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
6. SEE THE ARCHITECTURAL SITE PLAN FOR NEW AND EXISTING GROUND CONTOURS, STORM DRAINAGE SYSTEM, AND WORK BY THE GENERAL CONTRACTOR.
7. ALL SANITARY SEWER WORK SHALL COMPLY FULLY WITH ONSLOW COUNTY STANDARDS AND SPECIFICATIONS.
8. THE UTILITY CONTRACTOR SHALL RUN WASTE PIPING FROM 5'-0" OUTSIDE BUILDING TO MANHOLES (MANHOLES BY OTHERS). THE UTILITY CONTRACTOR SHALL RUN THE WATER PIPING FROM THE 4" STUB OUT (BY OTHERS) TO THE BUILDINGS. PROVIDE AND INSTALL A 4" METER IN A METER VAULT AND A 4" BACKFLOW PREVENTER IN A VAULT.
9. ALL OUTSIDE WATER AND WASTE LINES FROM 5'-0" FROM THE BUILDING SHALL BE RUN BY A LICENSED UTILITY CONTRACTOR, SUB-CONTRACTOR TO THE PLUMBING CONTRACTOR.

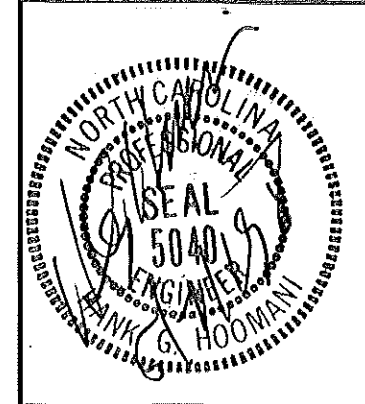


UTILITY SITE PLAN
U-1
1" = 60'-0"

NOTE:
THE ELECTRICAL CONTRACTOR SHALL PROVIDE 12 - 2 1/2" DIAMETER, 30 FOOT LONG PVC CONDUITS WITH 2 END PIPES EACH UNDER THE ROAD BED INSTALLED IN LOCATIONS AS DIRECTED BY THE ARCHITECT. THIS SHOULD BE PART OF THE BASE BID AND WILL NOT BE COVERED BY THE \$40,000 ALLOWANCE FOR SITE LIGHTING.

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919-781-8582

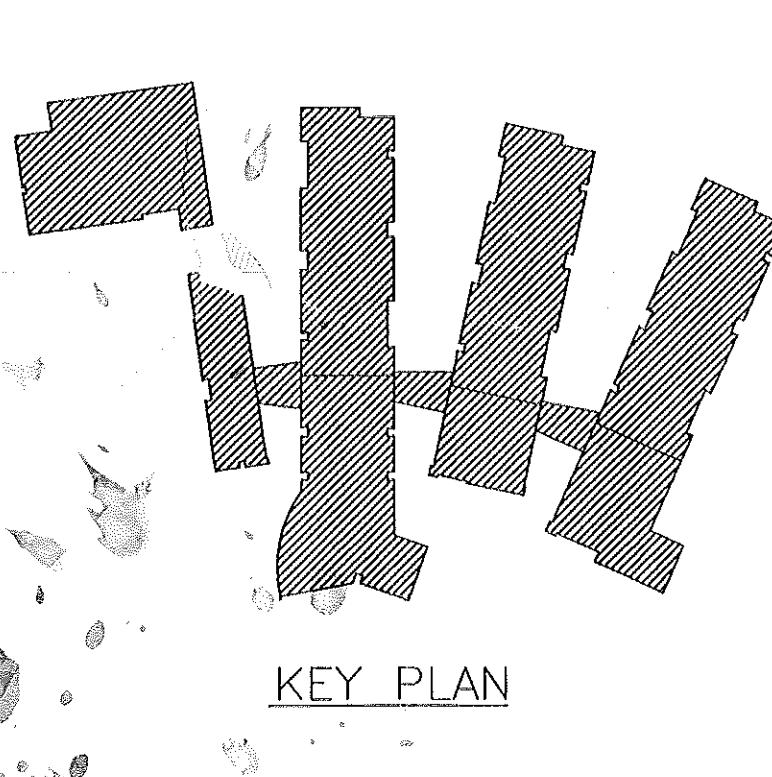


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pdc PROGRESSIVE DESIGN COLLABORATIVE, LLC
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TELEPHONE 919-790-9989

Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerio**
Project Engineer: **PDC**
drawn by: **PDC**
checked by: **Hank G. Hoomani**

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no.	description	date

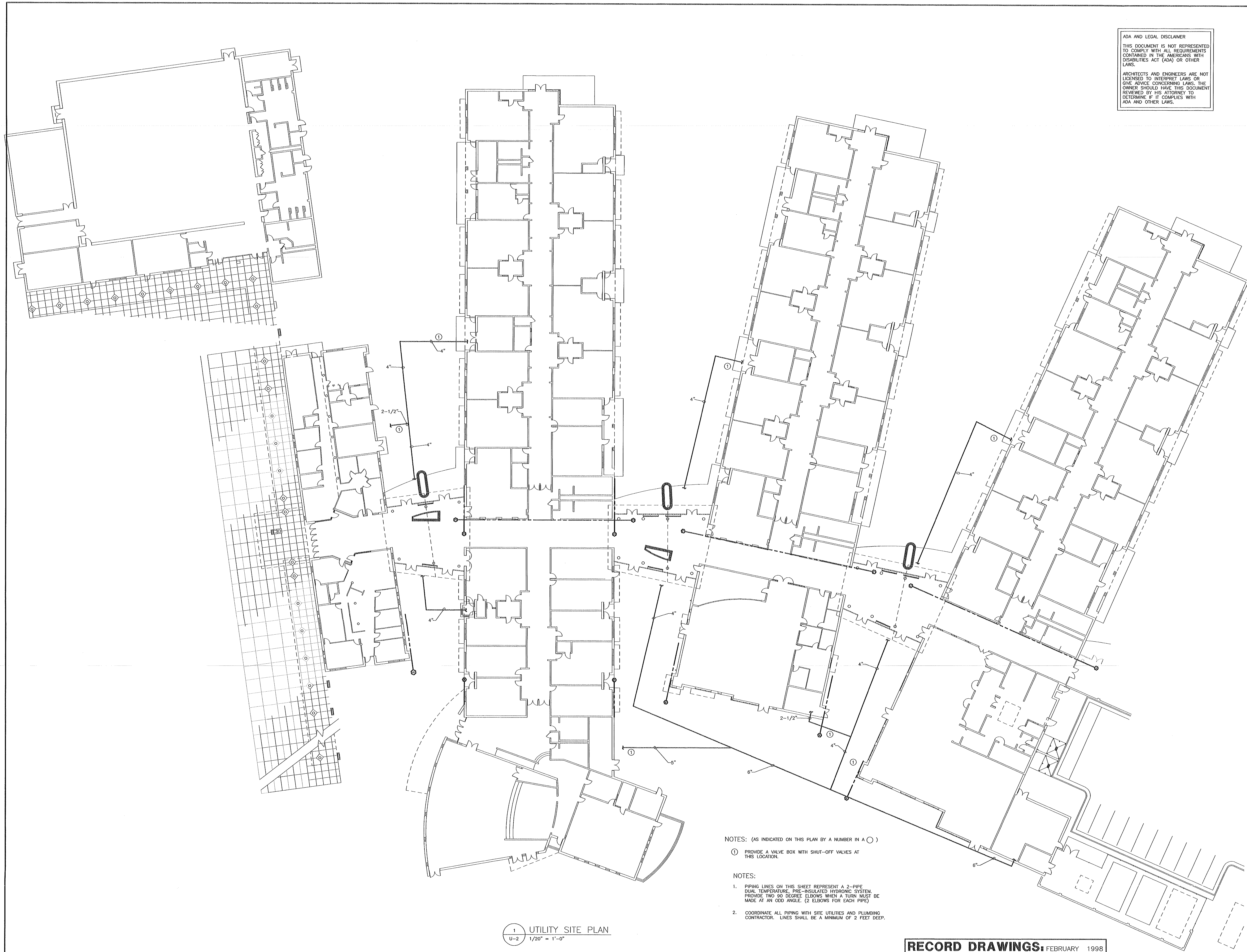


New Havelock Middle School

project title
PLUMBING PLAN
PLUMBING PLAN
UTILITY SITE PLAN
title

RECORD DRAWINGS: FEBRUARY

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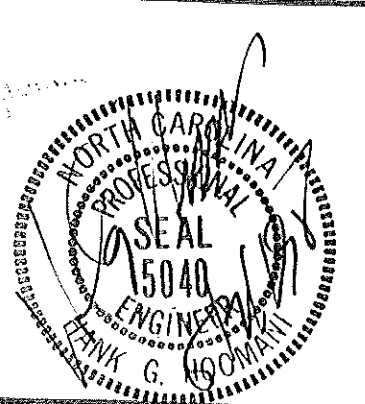


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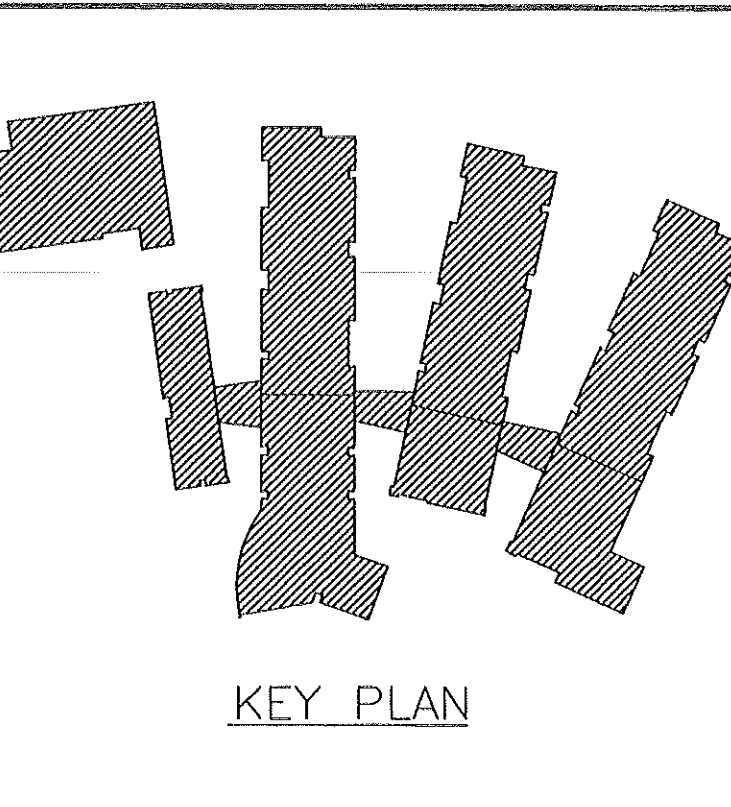


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Project Engineer: **J. Tim Griffin**
drawn by: **J. Tim Griffin**
checked by: **Hank G. Hoomani**

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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title	
DUAL TEMPERATURE PIPING	
sheet title	
9502.00 PDC #95045 project no.	sheet no.
1/15/96 date	

1 UTILITY SITE PLAN
U-2 1/20" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

① PROVIDE A VALVE BOX WITH SHUT-OFF VALVES AT THIS LOCATION.

NOTES:

- PIPING LINES ON THIS SHEET REPRESENT A 2-PIPE DUAL TEMPERATURE, PRE-INSULATED HYDRONIC SYSTEM. PROVIDE TWO 90 DEGREE ELBOWS WHEN A TURN MUST BE MADE AT AN ODD ANGLE. (2 ELBOWS FOR EACH PIPE)
- COORDINATE ALL PIPING WITH SITE UTILITIES AND PLUMBING CONTRACTOR. LINES SHALL BE A MINIMUM OF 2 FEET DEEP.

RECORD DRAWINGS, FEBRUARY 1998




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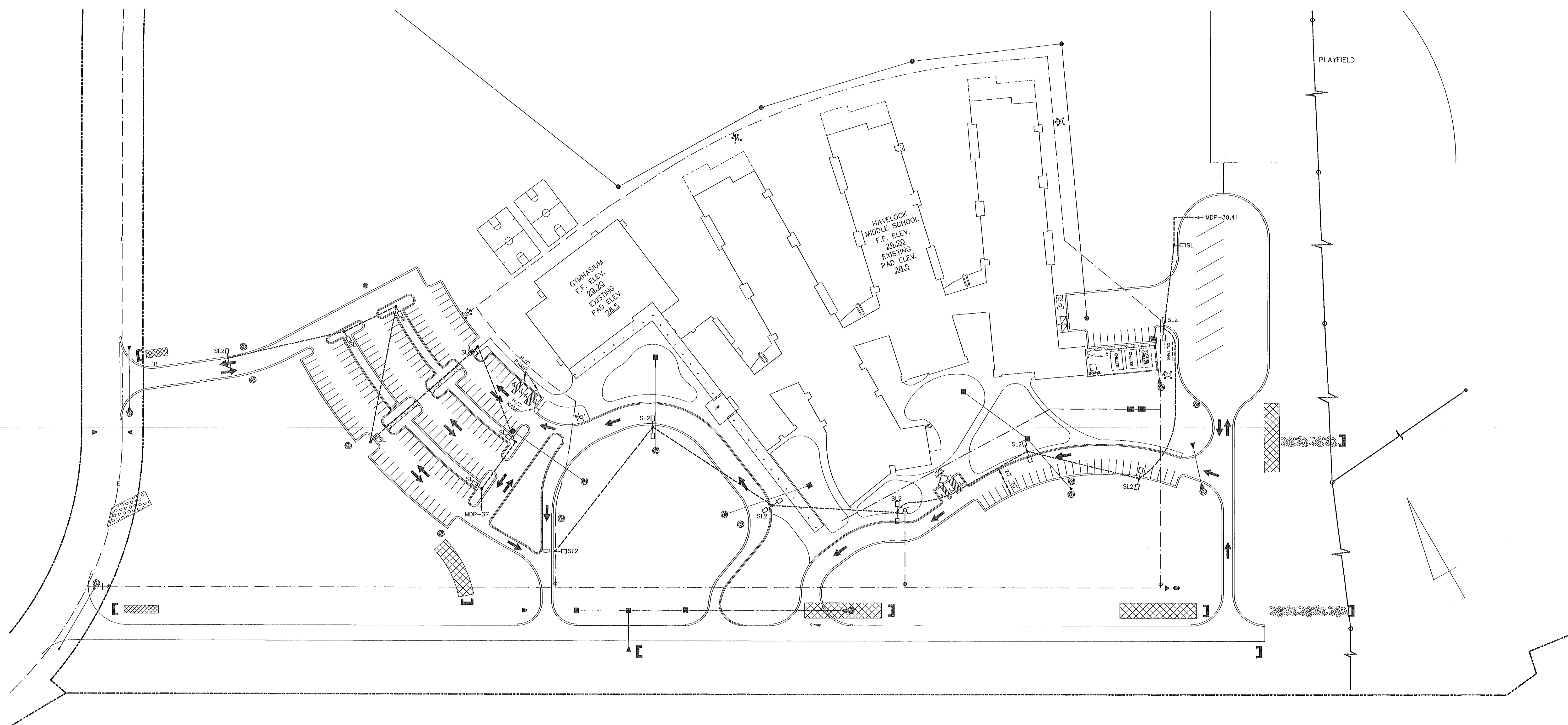


01

NOTE:
1. CIRCUIT LIGHT TO MDP-37, INDICATED AS 'SPARE' ON PANEL SCHEDULE.

SYMBOL LEGEND

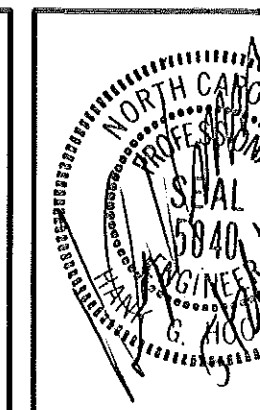
SYMBOL	DESCRIPTION	MANUFACTURER	LAMPS
	SINGLE HEAD LIGHT POLE, 30'	EMCO #PAED-F-400MH-277-DOB-PCB-SSA6 -30M	1-400W MH
	DOUBLE HEAD LIGHT POLE, 30'	EMCO #PAEF-3H-400MH-277-DOB-PCB-SSA6 -30M	2-400W MH
	HOME RUN		



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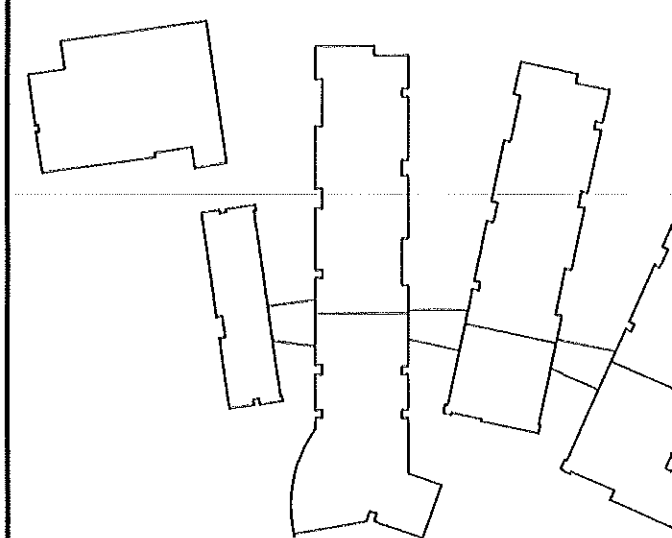
POST OFFICE BOX 6
RALEIGH, N. C. 27661

TELEPHONE 010 300

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Project Designer: **Rhonda Angerio**
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drawn by: **WPB**
checked by: **Hank G. Hooman**

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no.	description
Revisions	



KEY PLAN

**New Haven
Middle School**

**Craven C
North Ca**

project title

SITE LIGHTING
ALTERNATE E-3

sheet title

9502.00
PDC #95045
project no.

1/31/96
date

sheet no. 3 of:

--	--

sheet no. U

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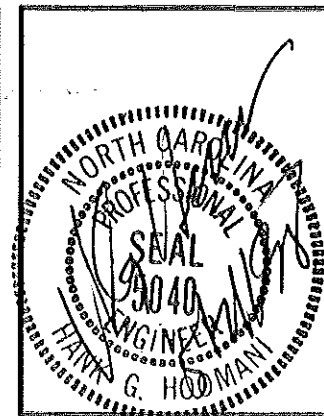
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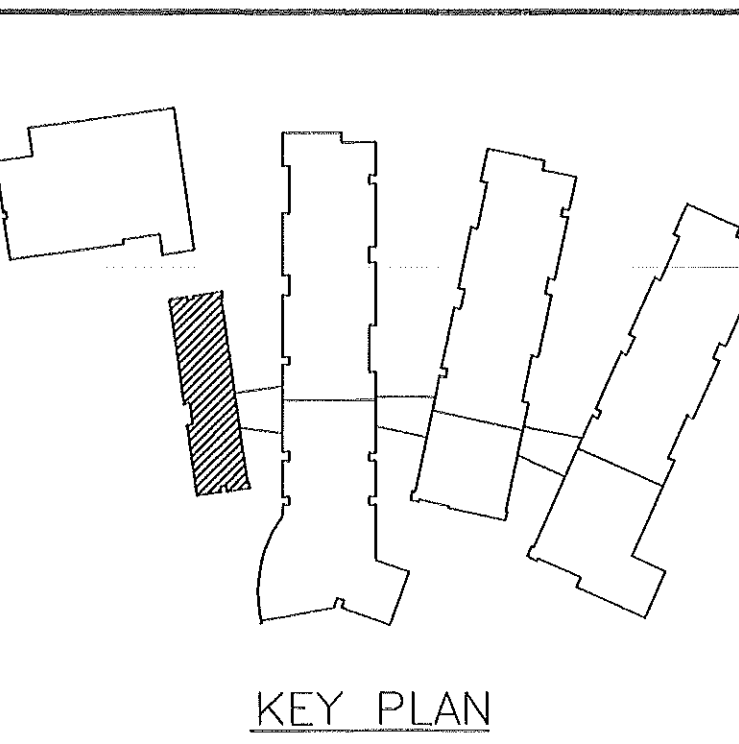


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Project Engineer: **Tom Beall**
drawn by: **Tom Beall**
checked by: **Hank G. Hoomanli**

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New Havelock Middle School

Craven County
North Carolina

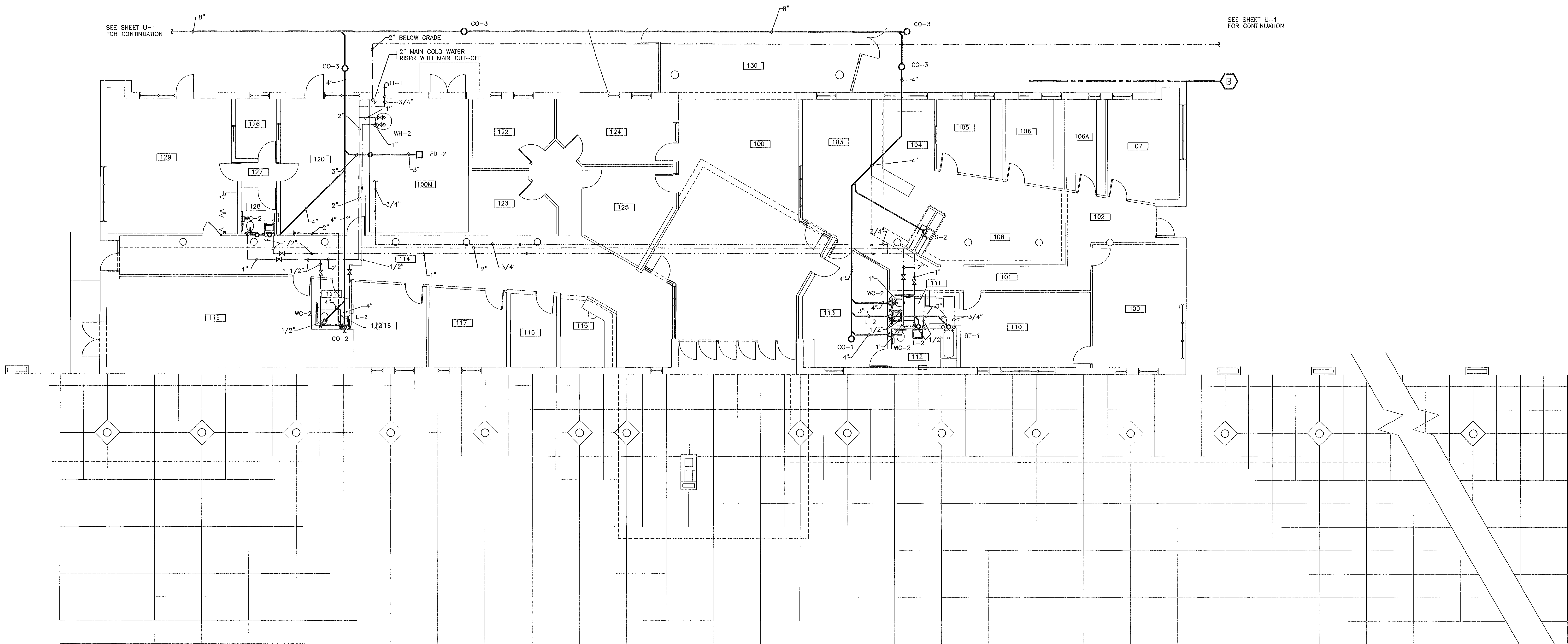
project title

PLUMBING RISERS
PLUMBING PLAN
sheet title
1/8" = 1'-0"
scale:

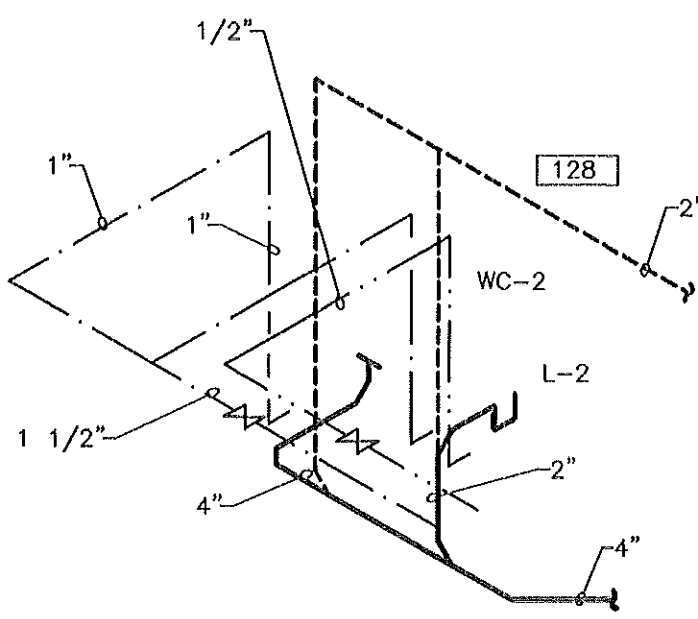
9502.00
PDC #95045
project no.
sheet no. 2 of 12

1/15/96
date
sheet no. **P-2**

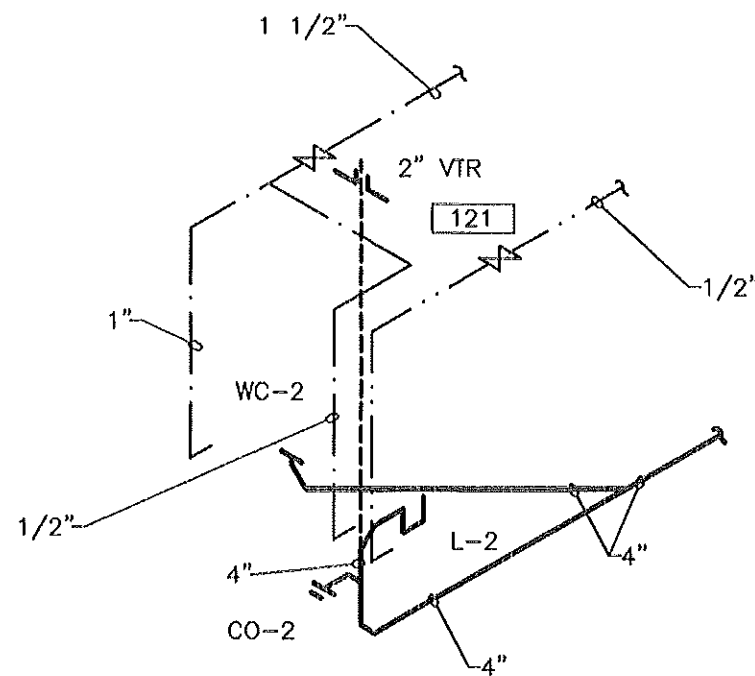
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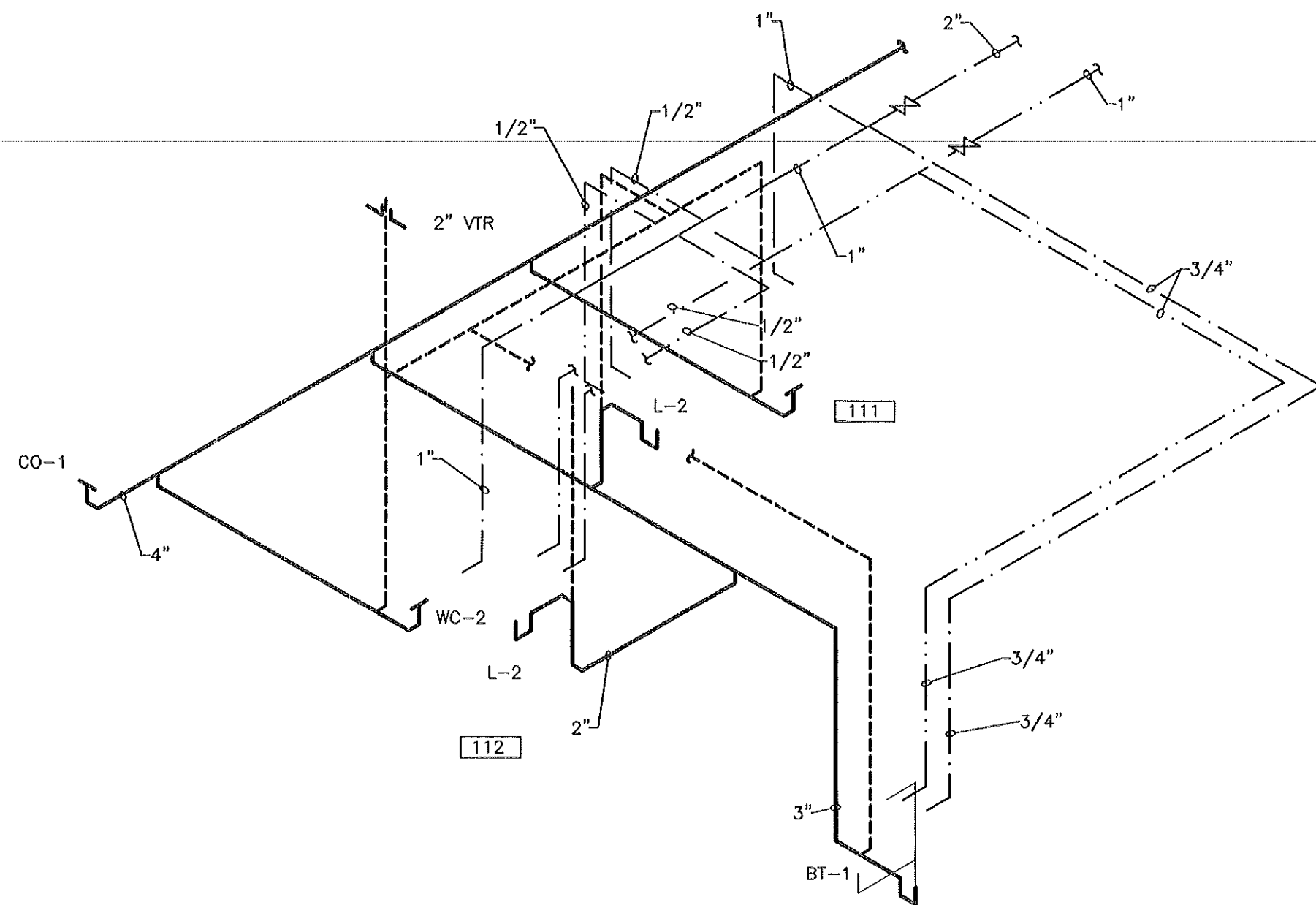
1 PLUMBING PLAN
P-2
1/8" = 1'-0"



3 PLUMBING RISER
P-2
NOT TO SCALE



2 PLUMBING RISER
P-2
NOT TO SCALE

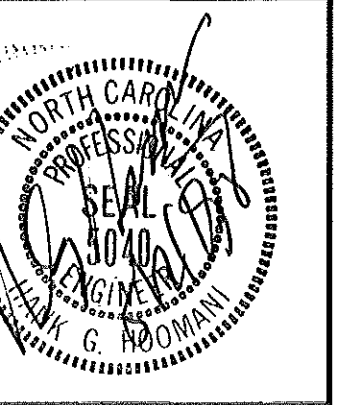


3 PLUMBING RISER
P-2
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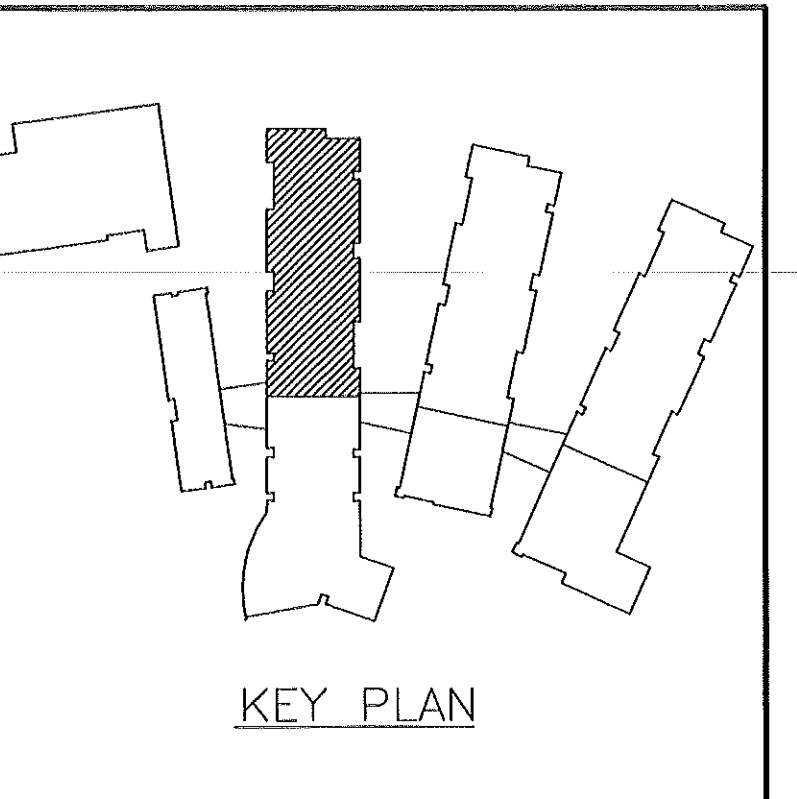


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checked by: **Hank G. Hoomani**

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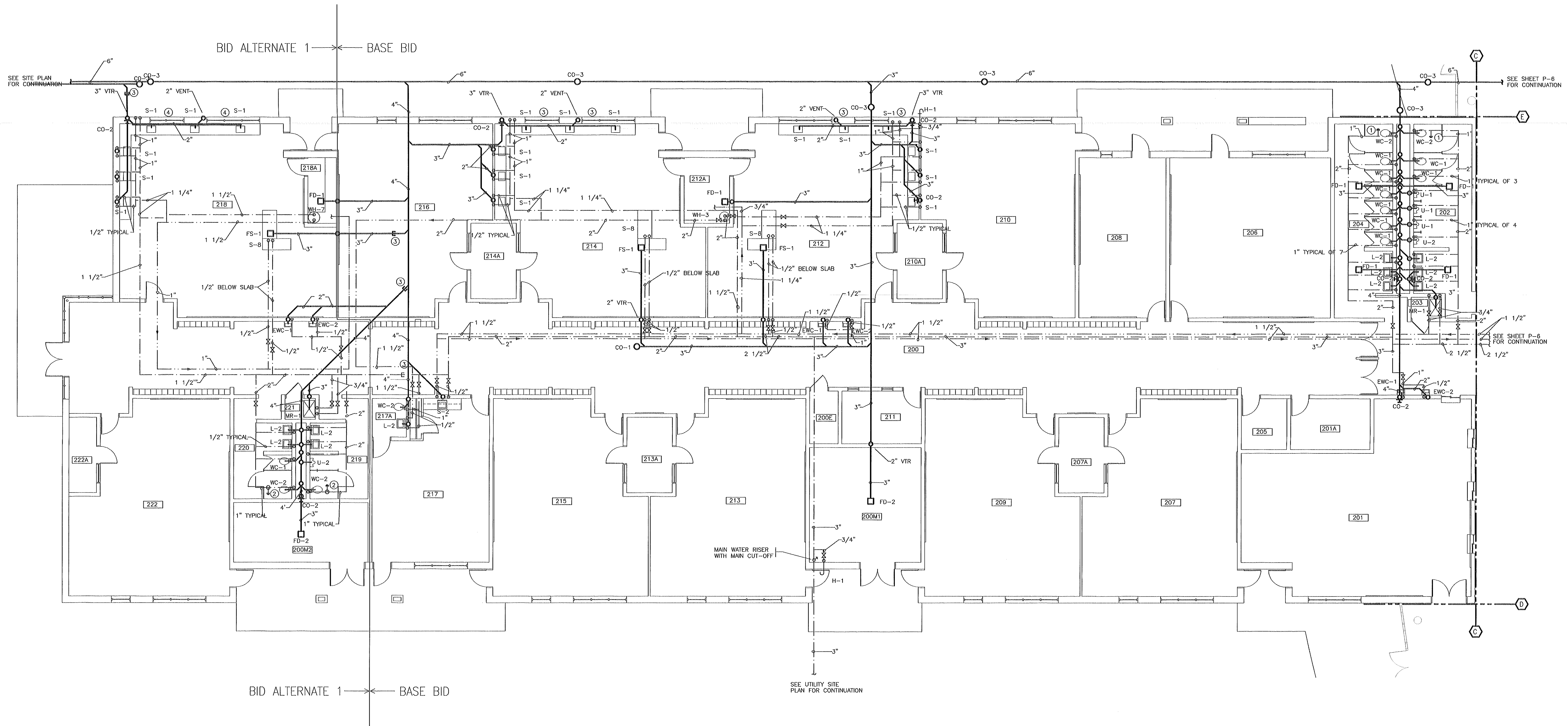
no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title	
PLUMBING RISER PLUMBING PLAN	1/8" = 1'-0"
sheet title	scale:
9502.00 PDC #95045 project no.	sheet no. 3 of 12
1/15/96 date	sheet no. P-3



- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A ZURN OR EQUAL MODEL Z-1700 #400 SHOCKTROLL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A ZURN, OR EQUAL, MODEL #Z-1700 AND A #300 SHOCKTROLL.
 - THE PLUMBING CONTRACTOR SHALL RUN WATER LINES TO SINKS HORIZONTALLY IN MASONRY WALL.

NOTE:
ALL VENT LINES SHALL BE
2" UNLESS NOTED OTHERWISE.

1 CLASSROOM WING PLUMBING PLAN
1/8" = 1'-0"

2 PLUMBING RISER
NOT TO SCALE

2 PLUMBING RISER
NOT TO SCALE

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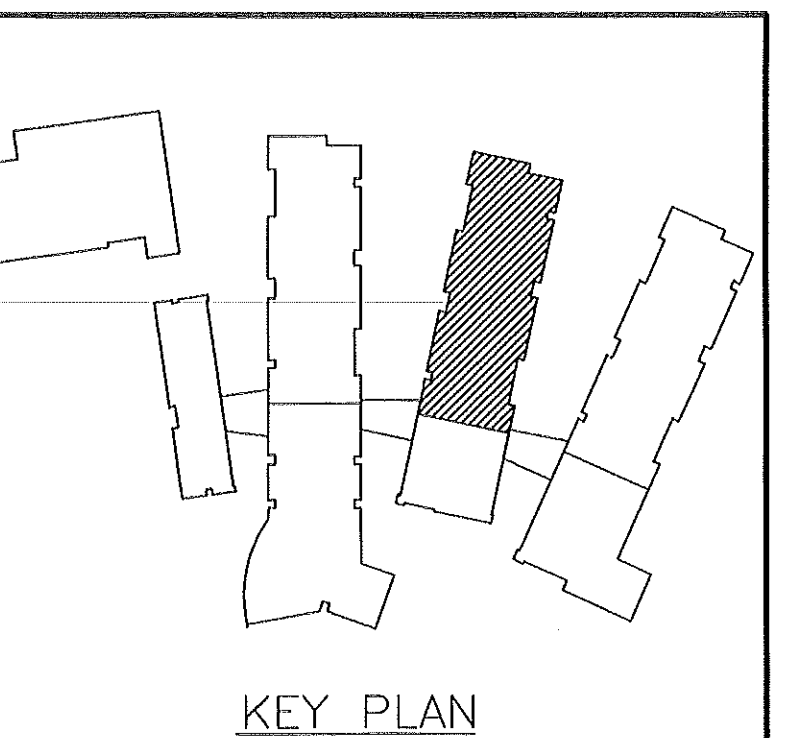


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New Havelock Middle School

Craven County
North Carolina

project title

PLUMBING PLAN
PLUMBING RISER

sheet title

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

9502.00
PDC #95045
project no.

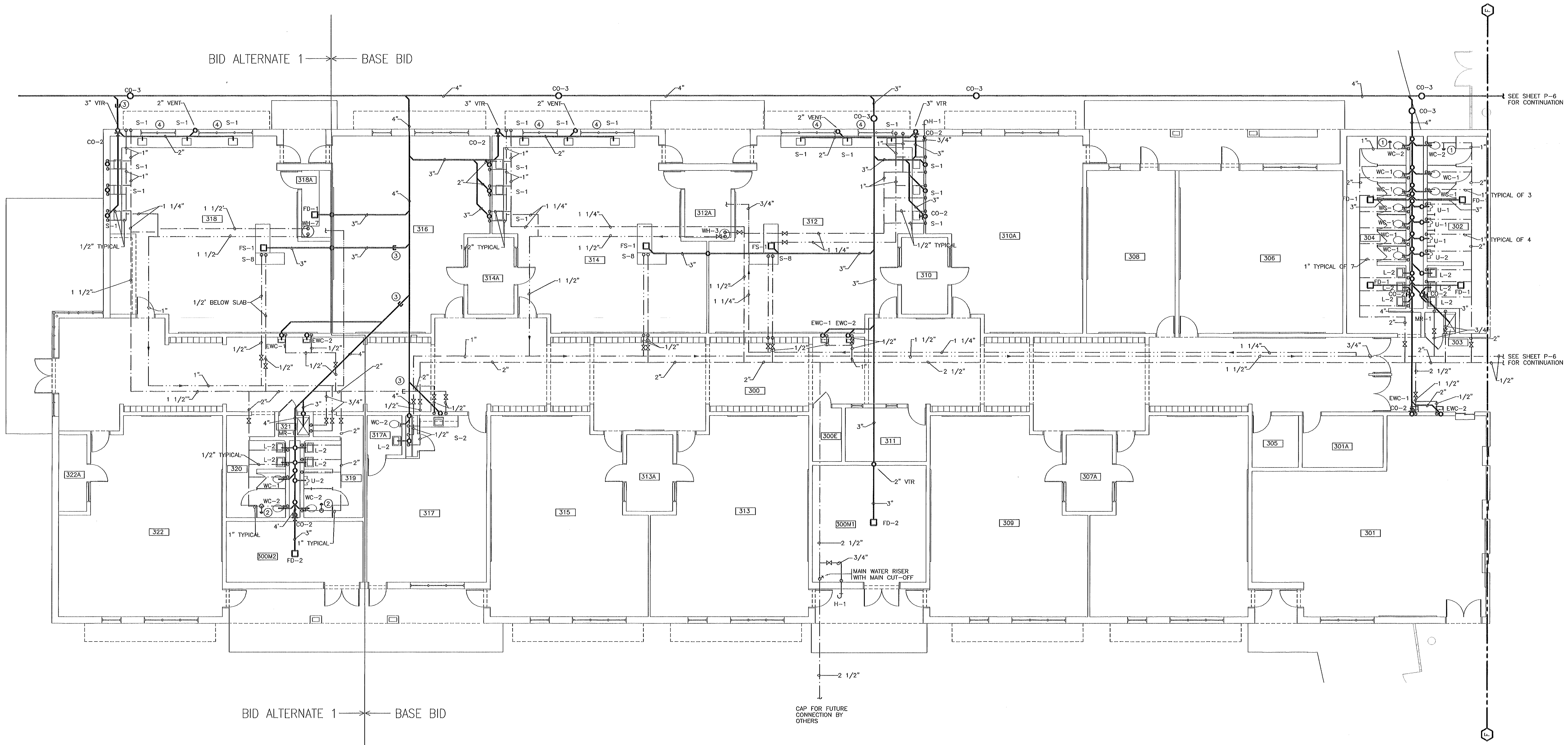
sheet no. 4 of 12

1/15/96
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sheet no. **P-4**

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1 PLUMBING PLAN
P-4 1/8" = 1'-0"

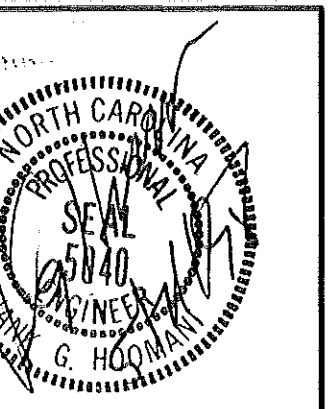
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 - THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A ZURN, OR EQUAL, MODEL #Z-1700 AND A #300 SHOCKTROLL.
 - UNDER THE BASE BID, THE PLUMBING CONTRACTOR SHALL STUB OUT WASTE AND WATER LINES AND CAP FOR FUTURE CONNECTION BY OTHERS.
 - THE PLUMBING CONTRACTOR SHALL RUN WATER LINES HORIZONTALLY IN MASONRY WALL.

released for construction: 1/15/96

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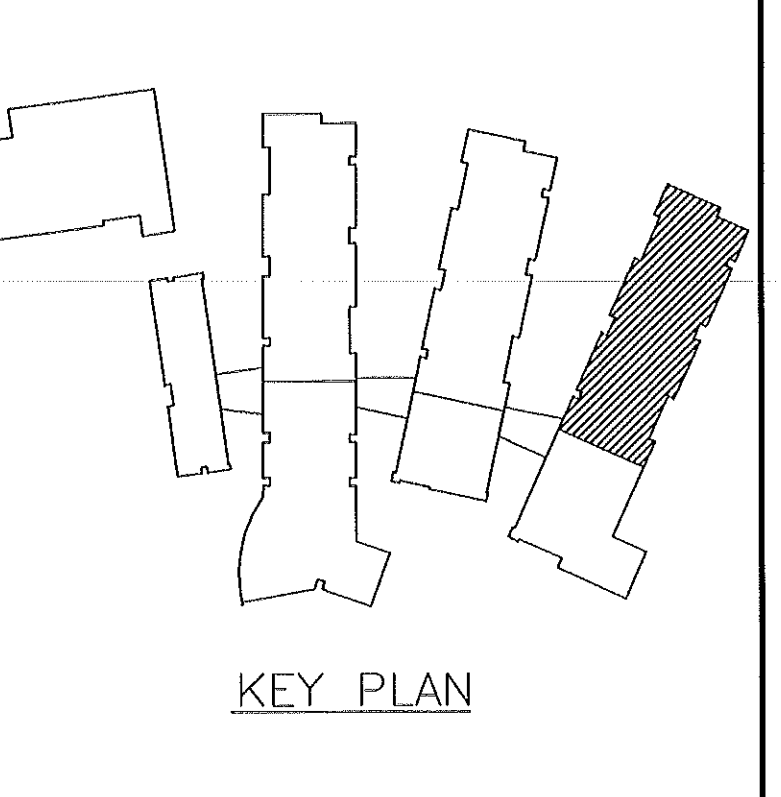


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TELEPHONE 919-790-9989

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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

PLUMBING PLAN
PLUMBING RISER

sheet title

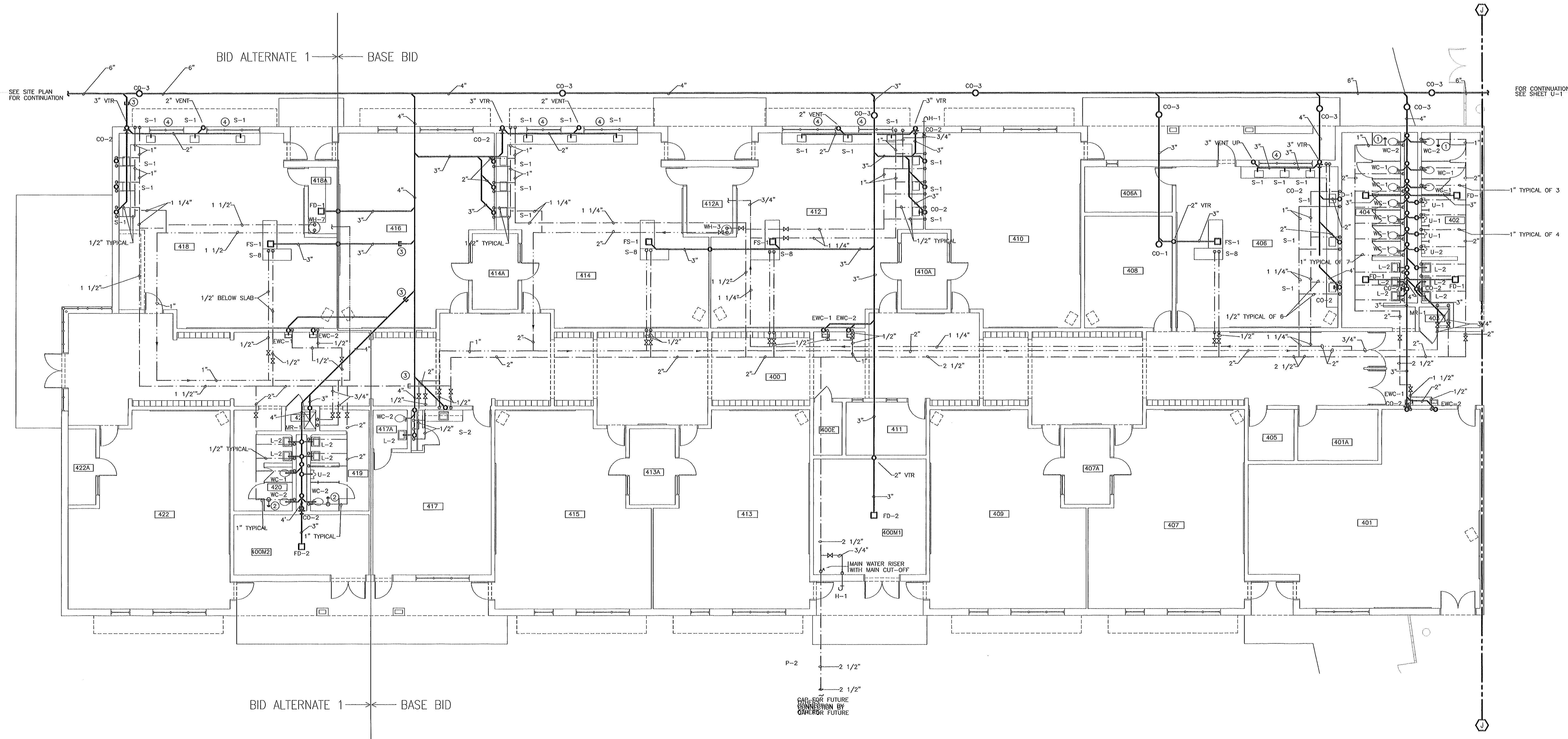
9502.00
PDC #95045
project no.

sheet no. 5 of: 12

1/15/96
date

sheet no. **P-5**

released for construction: 1/15/96



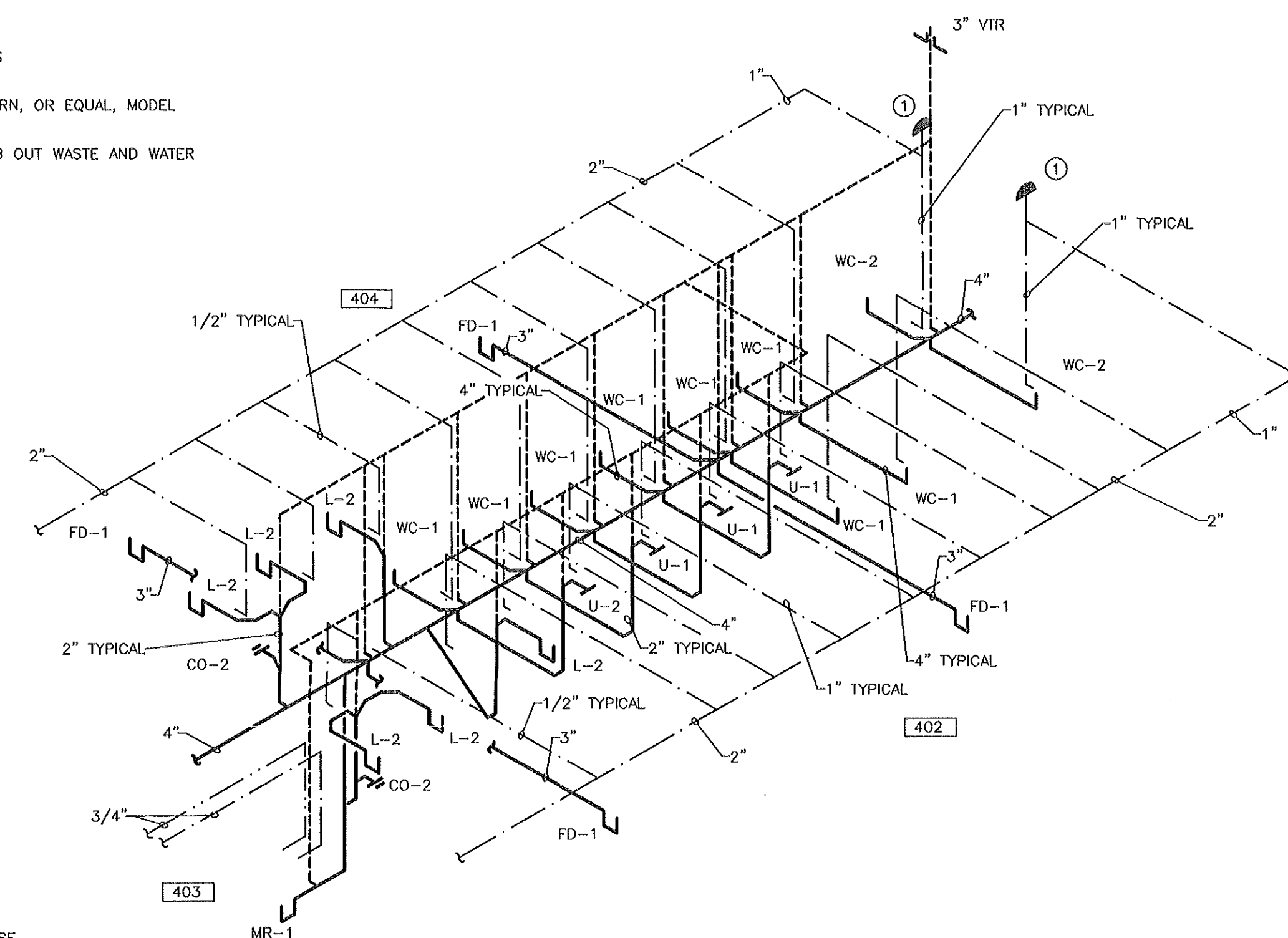
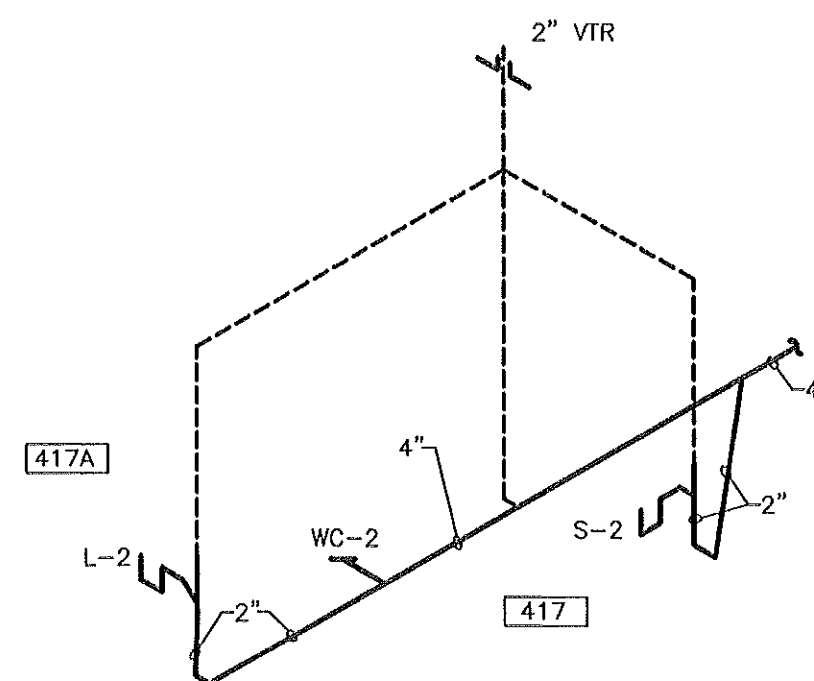
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- UNDER THE BASE BID, THE PLUMBING CONTRACTOR SHALL STUB OUT WASTE AND WATER LINES AND CAP FOR FUTURE CONNECTION BY OTHERS.

2 PLUMBING RISERS

NOT TO SCALE

NOTE:
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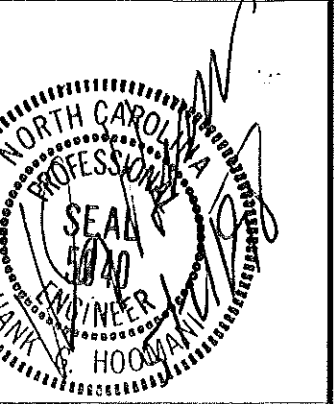
RECORD DRAWINGS, FEBRUARY 1998

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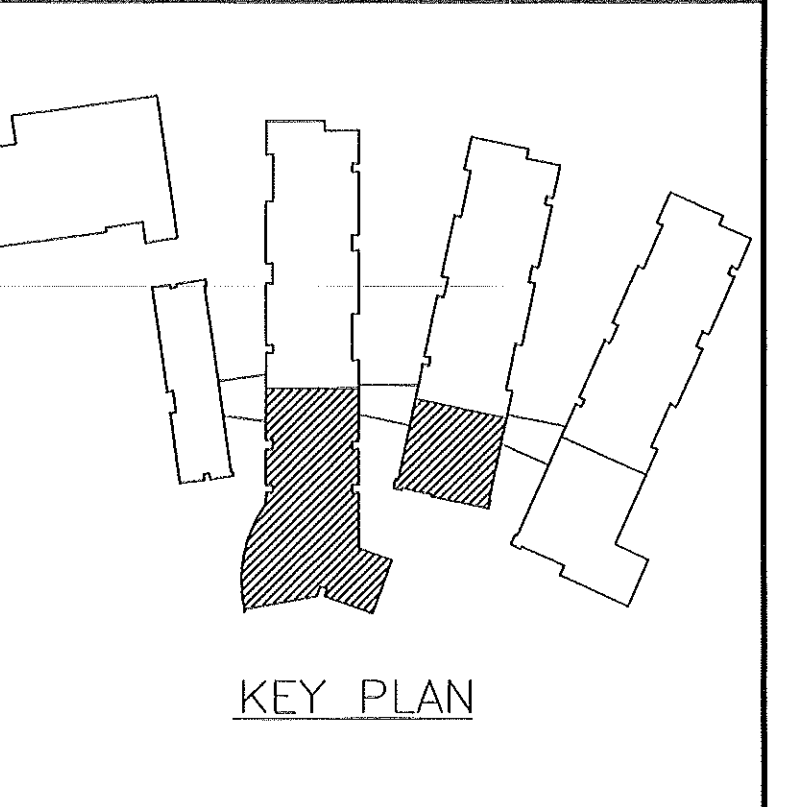


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pdc PROGRESSIVE DESIGN COLLABORATIVE, LLC.
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RALEIGH, N. C. 27661-1249
TELEPHONE 919-790-9989

Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerlo**
Project Engineer: **Tom Beall**
drawn by: **Wynn Britt**
checked by: **Hank G. Hoomanl**

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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

PLUMBING PLAN
PLUMBING RISER

sheet title

9502.00
PDC #95045
project no.

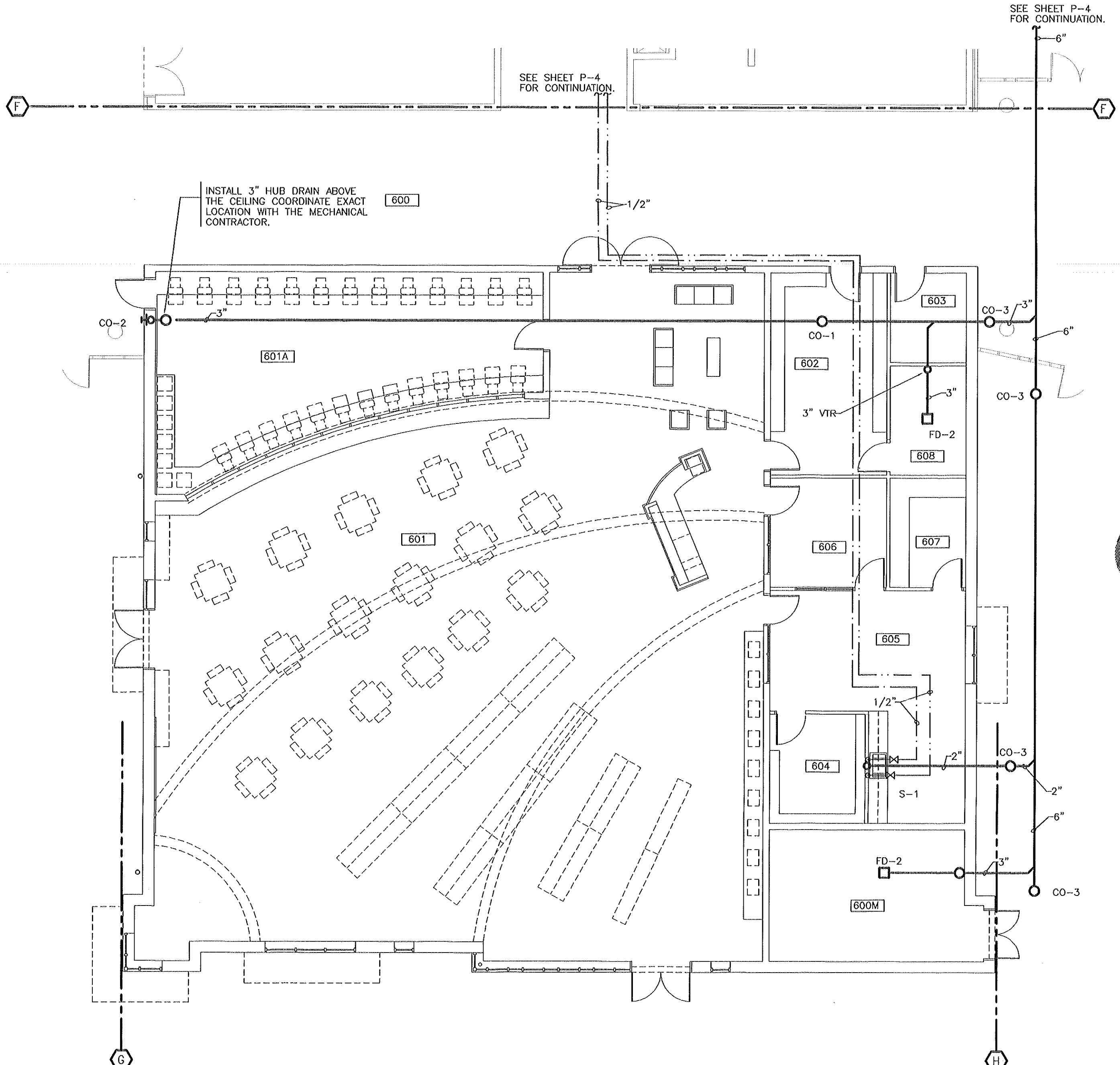
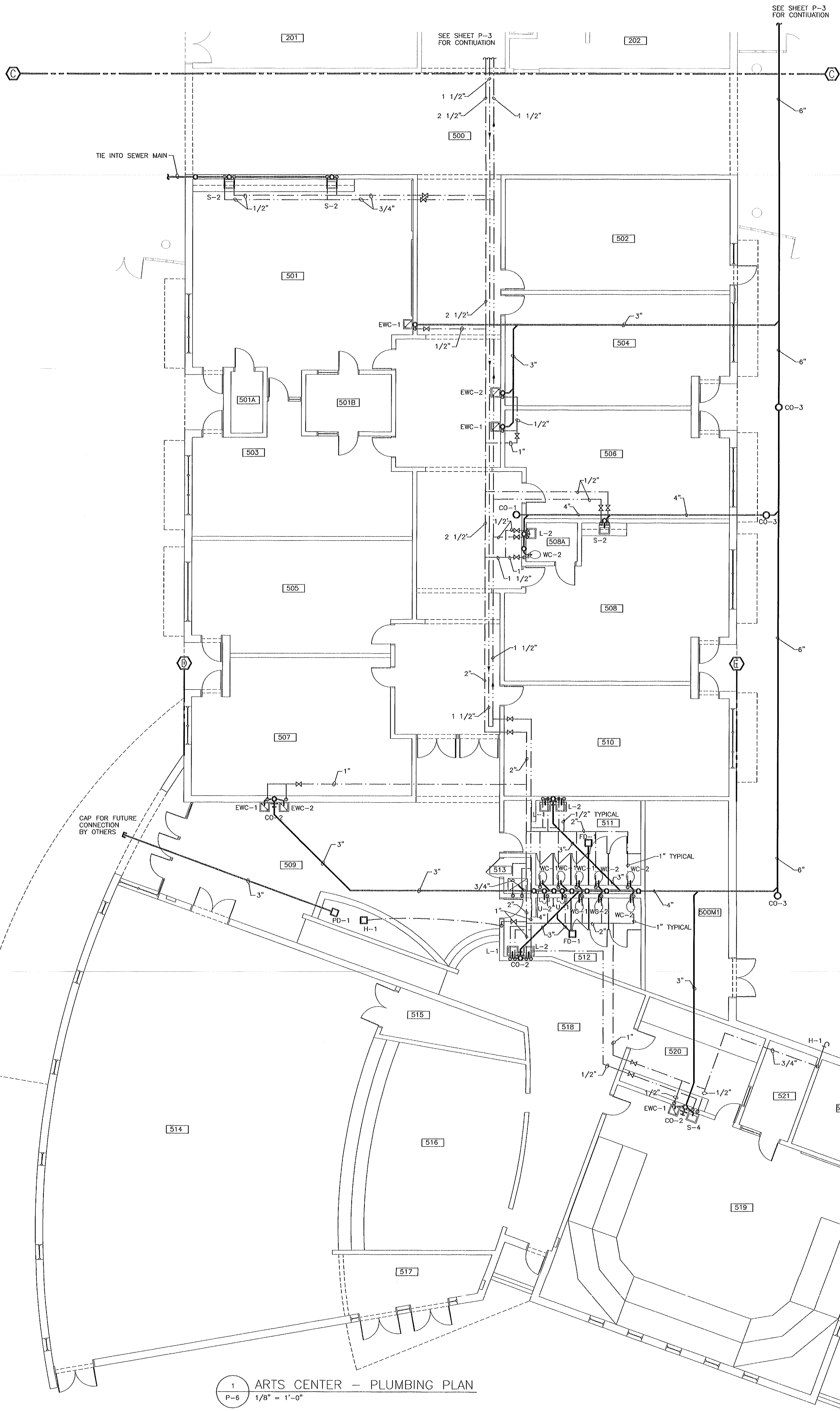
1/15/96
date

sheet no. 6 of: 12

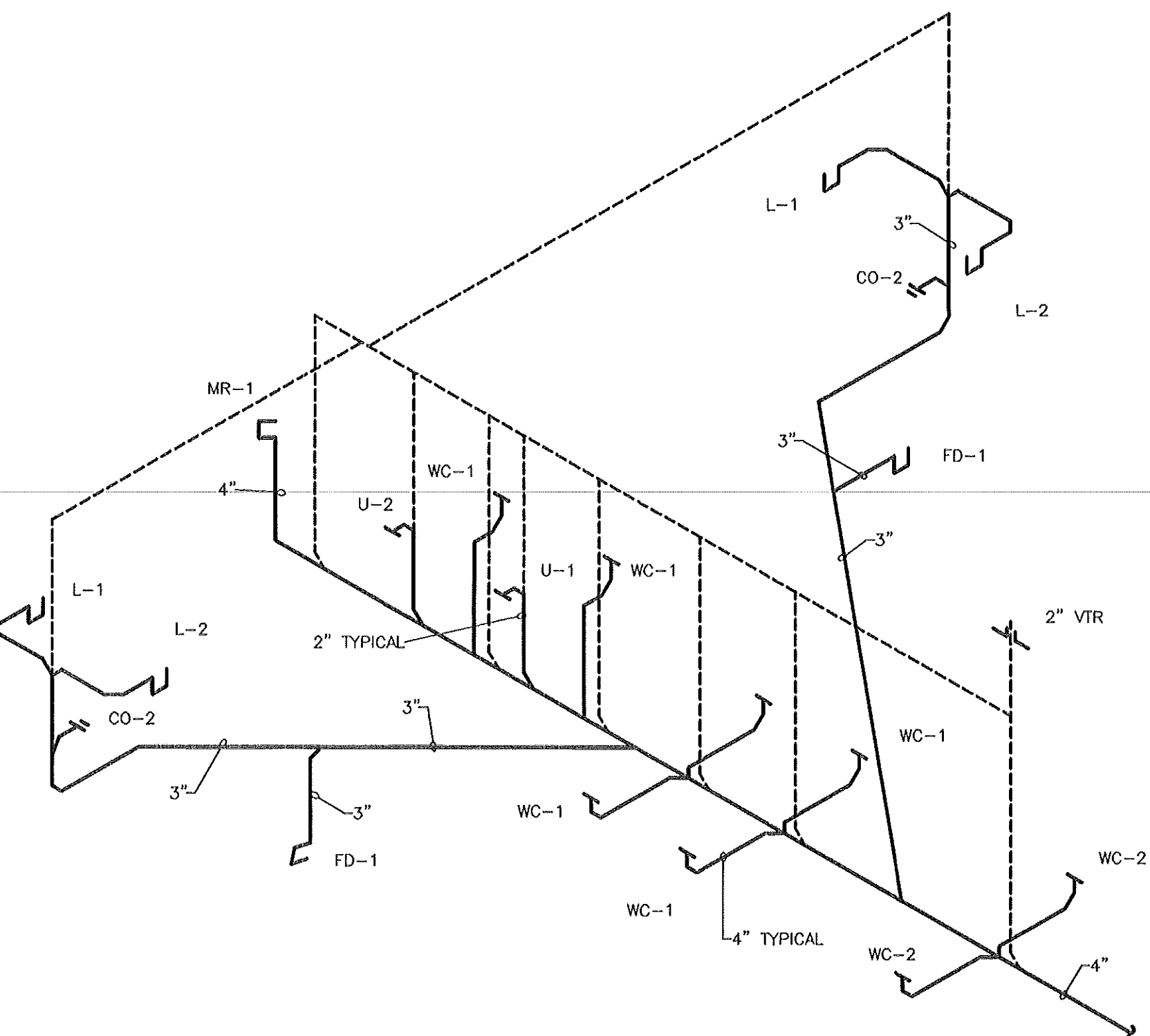
P-6

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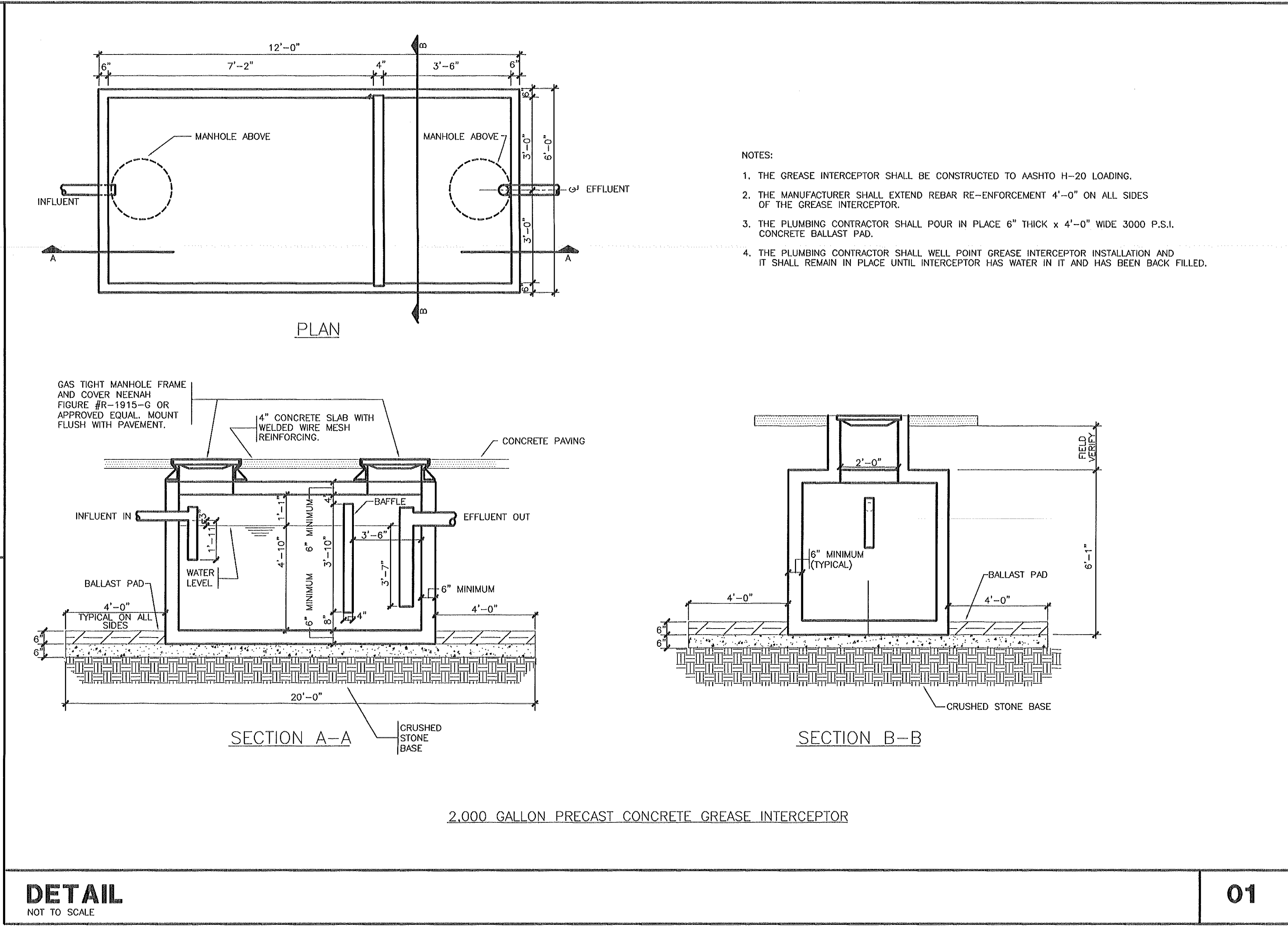
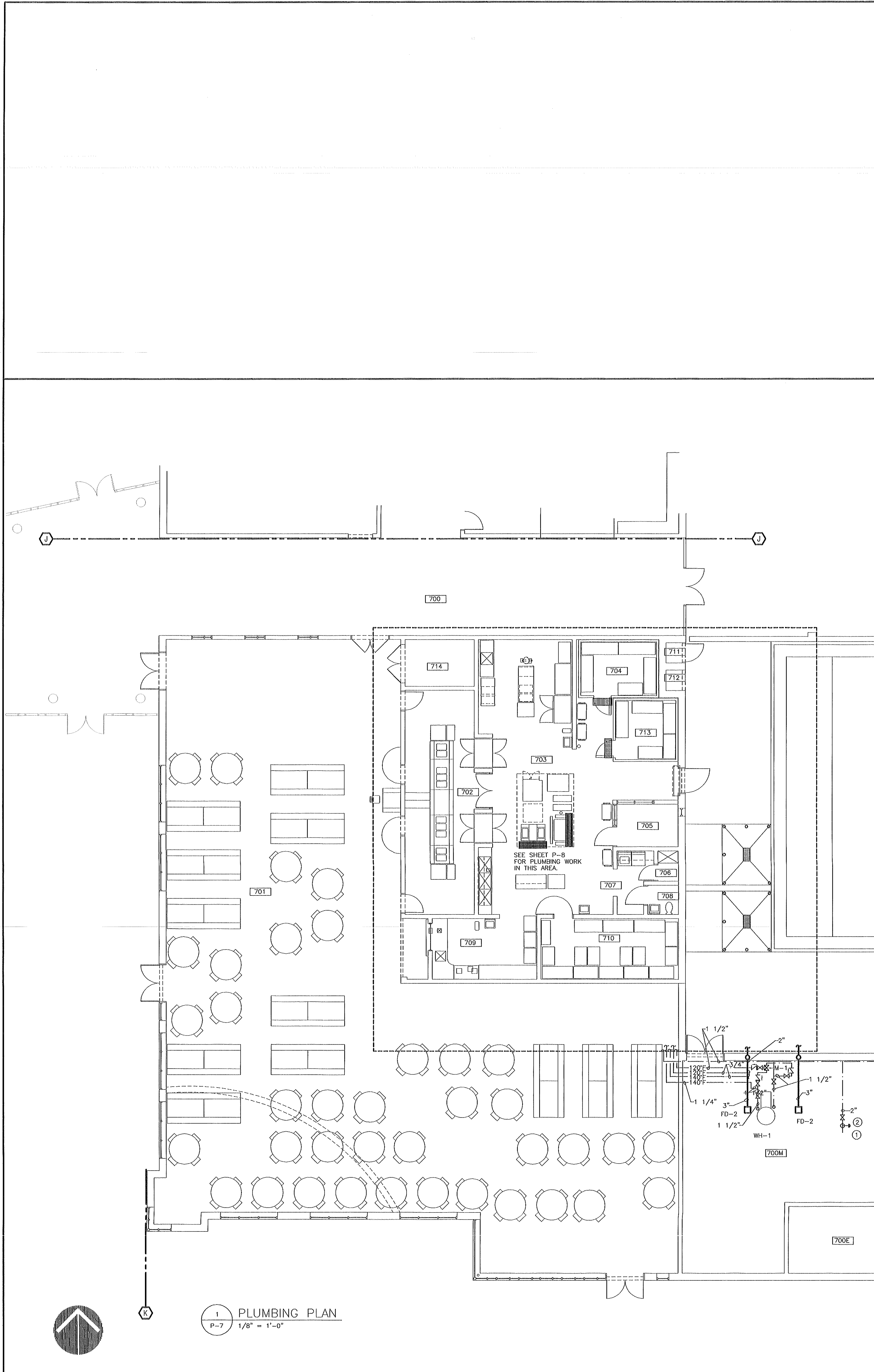


2 MEDIA CENTER - PLUMBING PLAN
P-6 1/8" = 1'-0"



3 PLUMBING RISER
P-6 NOT TO SCALE

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drawn by: **Tom Beall**
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KEY PLAN

New Havelock Middle School
Craven County North Carolina

project title

PLUMBING PLAN
sheet title

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

9502.00
PDC #95045
project no.

sheet no. 7 of: 12

1/15/96
date

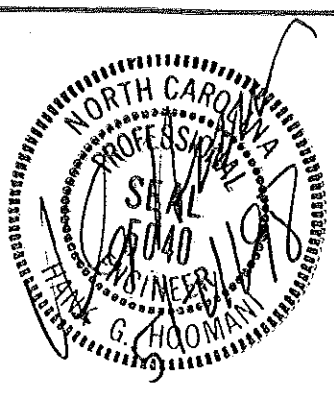
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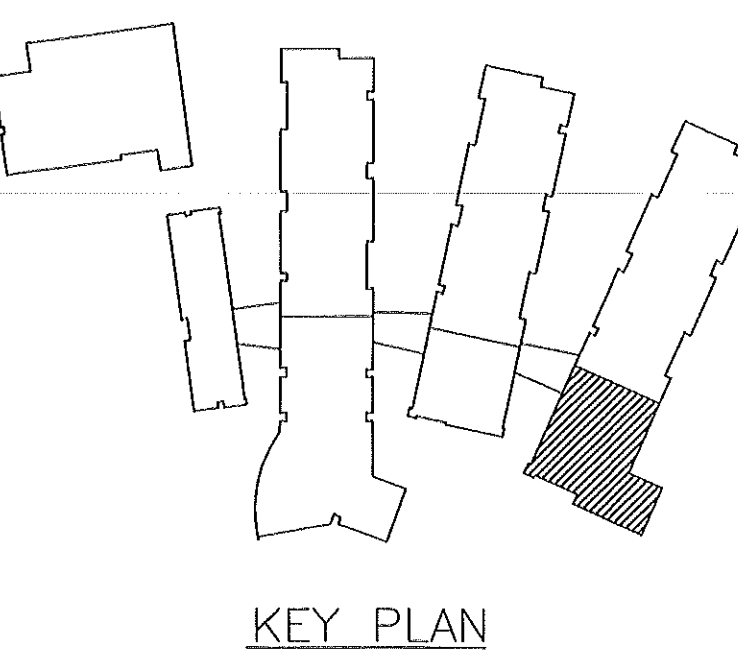


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drawn by: **Tom Beall**
checked by: **Hank G. Hooman**

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Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

ENLARGED KITCHEN PLAN

sheet title 1/4" = 1'-0"
scale:

9502.00
PDC #95045
project no.

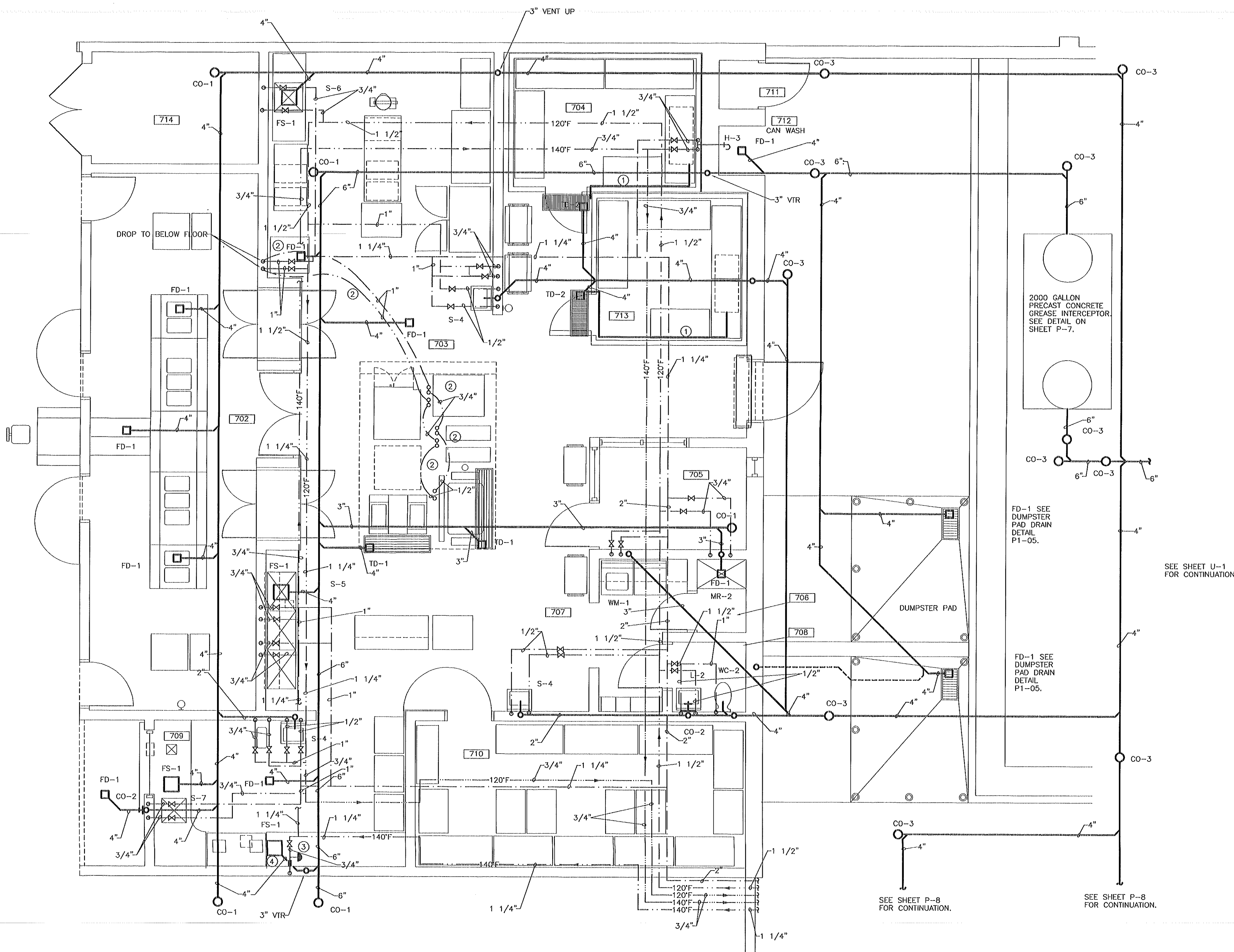
sheet no. 8 of 12

1/15/96
date

sheet no. **P-8**

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- 1 PROVIDE AND INSTALL HEAT TAPE CONDENSATE DRAIN LINES FROM THE EVAPORATOR COIL OF THE WALK-IN COOLER AND FREEZER. HEAT TAPE SHALL BE RATED AT 5 WATTS PER LINEAR FOOT, 120V/1/80, MODEL NO. SL, SELF LIMITING HEAT TAPE BY BRIGHEAT OR EQUIVALENT. HEAT TAPE SHALL BE INSTALLED PRIOR TO INSTALLATION OF 1/2" THICK FOAM RUBBER INSULATION.
- 2 THE PLUMBING CONTRACTOR SHALL INSTALL FOAM RUBBER INSULATION ON ALL WATER PIPING PASSING THROUGH CONCRETE SLAB AND BELOW FLOOR SLAB. THE PLUMBING CONTRACTOR SHALL INSTALL BELOW SLAB PIPING SO THAT NO JOINTS WILL BE BELOW FLOOR SLAB.
- 3 THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A ZURN, OR EQUAL, MODEL NO. Z-1700 #300 SHOCKTROLL.
- 4 THE PLUMBING CONTRACTOR SHALL SUPPLY AND INSTALL A PRESSURE REDUCING VALVE SET AT 25 PSI ON WATER LINE TO DISHWASHER AND BOOSTER HEATER.



1 ENLARGED KITCHEN PLAN
P-8 1/4" = 1'-0"

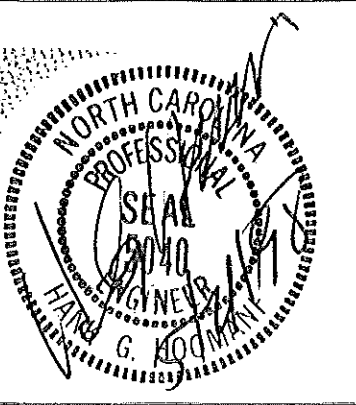
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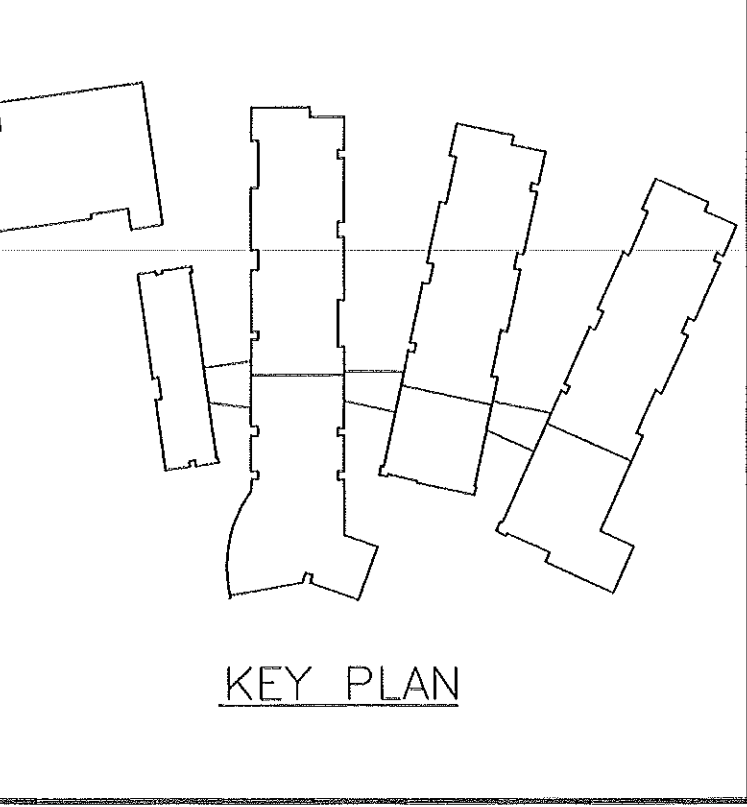


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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

PLUMBING PLAN

sheet title
1/8" = 1'-0"
scale:

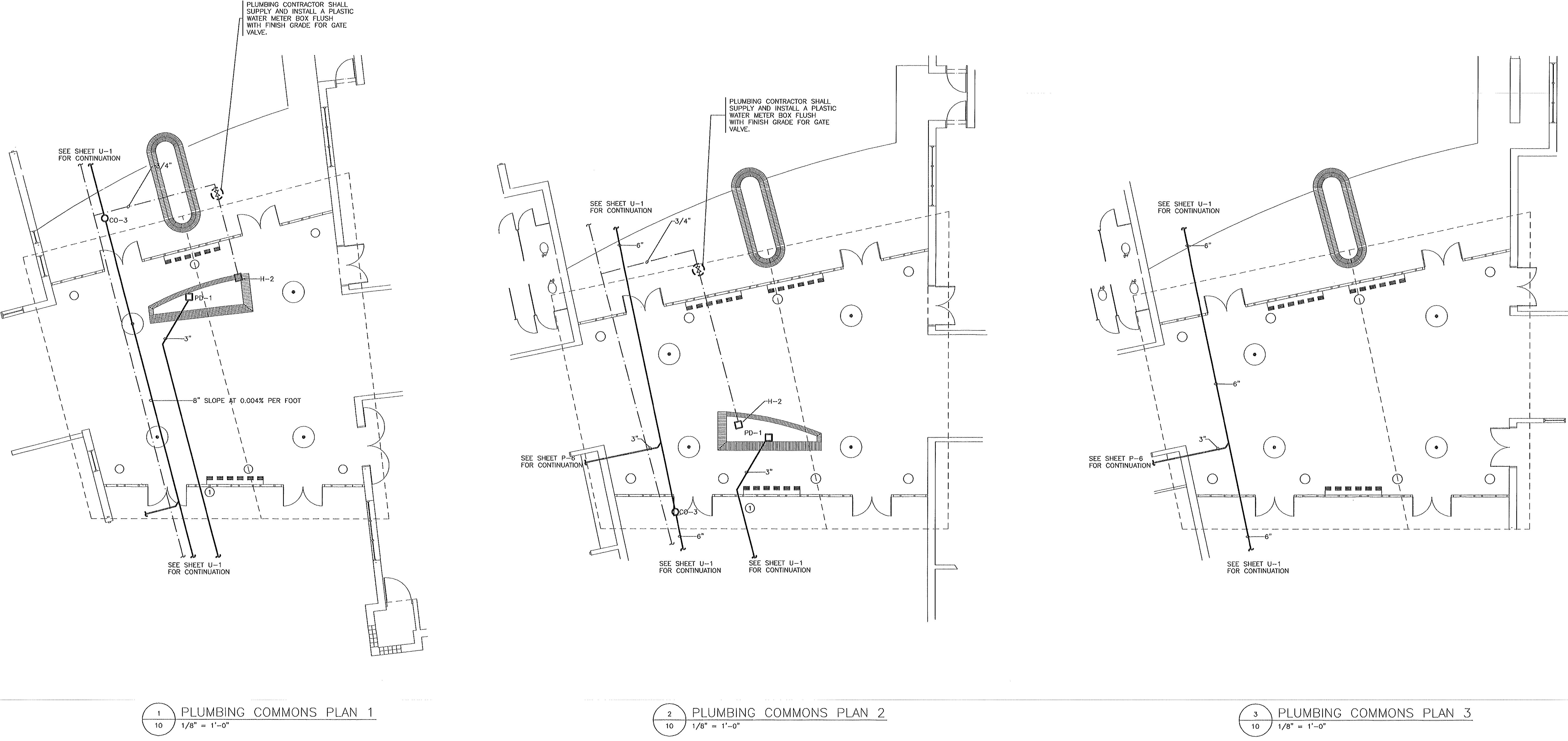
9502.00
PDC #95045
project no.

sheet no. 9 of 12

1/15/96
date

sheet no. **P-9**

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1 PLUMBING COMMONS PLAN 1
1/8" = 1'-0"

2 PLUMBING COMMONS PLAN 2
1/8" = 1'-0"

3 PLUMBING COMMONS PLAN 3
1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
① PLUMBING CONTRACTOR SHALL TIE 3" STORM DRAIN LINE INTO STORM DRAIN LINE AT THE EXTERIOR PLANTER BY THE GENERAL CONTRACTOR. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR.

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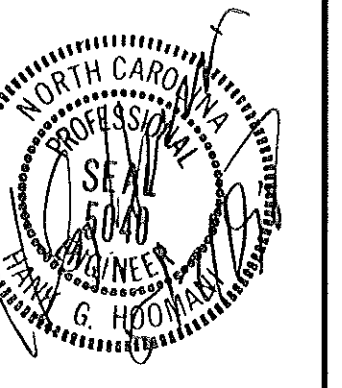
BID ALTERNATE 2 BASE BID

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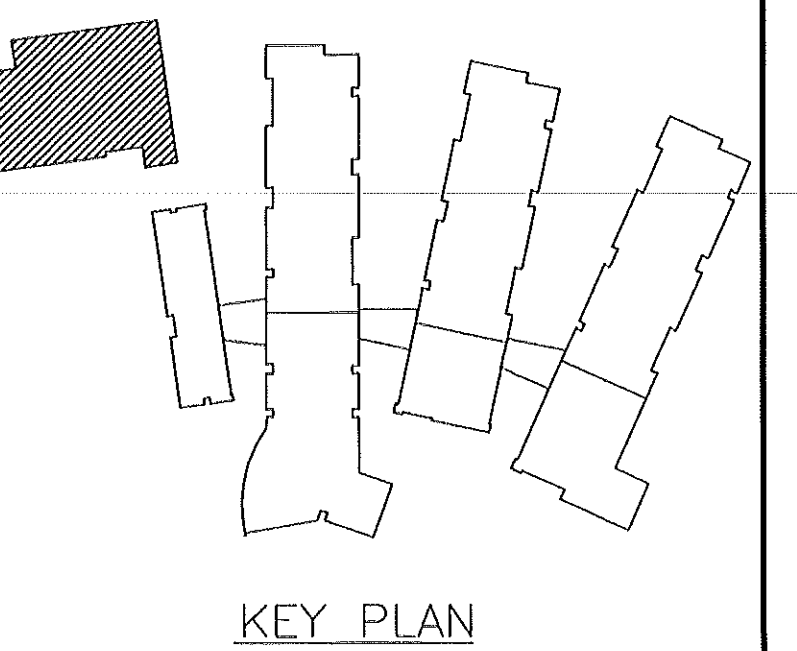


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checked by: Hank G. Hoomanl

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New Havelock Middle School

Craven County
North Carolina

project title

GYMNASIUM PLUMBING PLAN
GYMNASIUM PLUMBING RISERS

sheet title

9502.00
PDC #95045
project no.

1/15/96
date

sheet no. 10 of 12
P-10

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)
① THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A ZURN, OR EQUAL, MODEL NO. Z-1700 #600 SHOCKROLL.

SEE UTILITY SITE PLAN FOR CONTINUATION.

SEE SHEET P-2 FOR CONTINUATION

NOTE:
ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.

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1 PLUMBING PLAN
P-10 1/8" = 1'-0"

2 PLUMBING RISERS
P-10 NOT TO SCALE

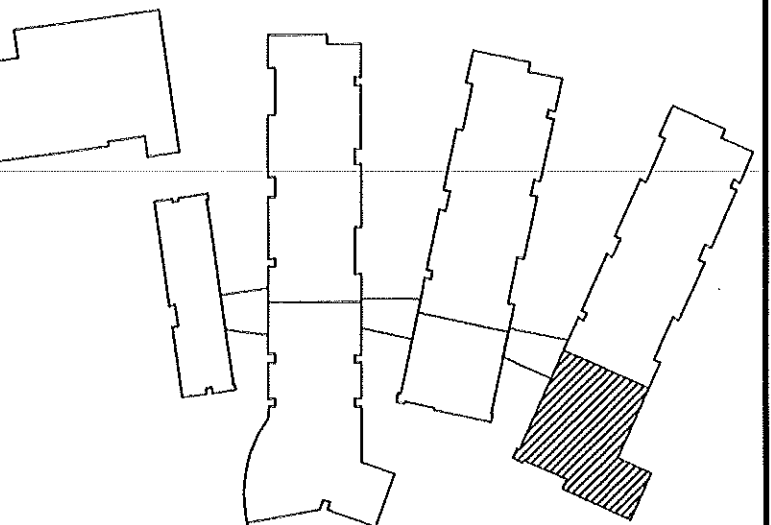
BASE BID FOR BID ALTERNATE 2

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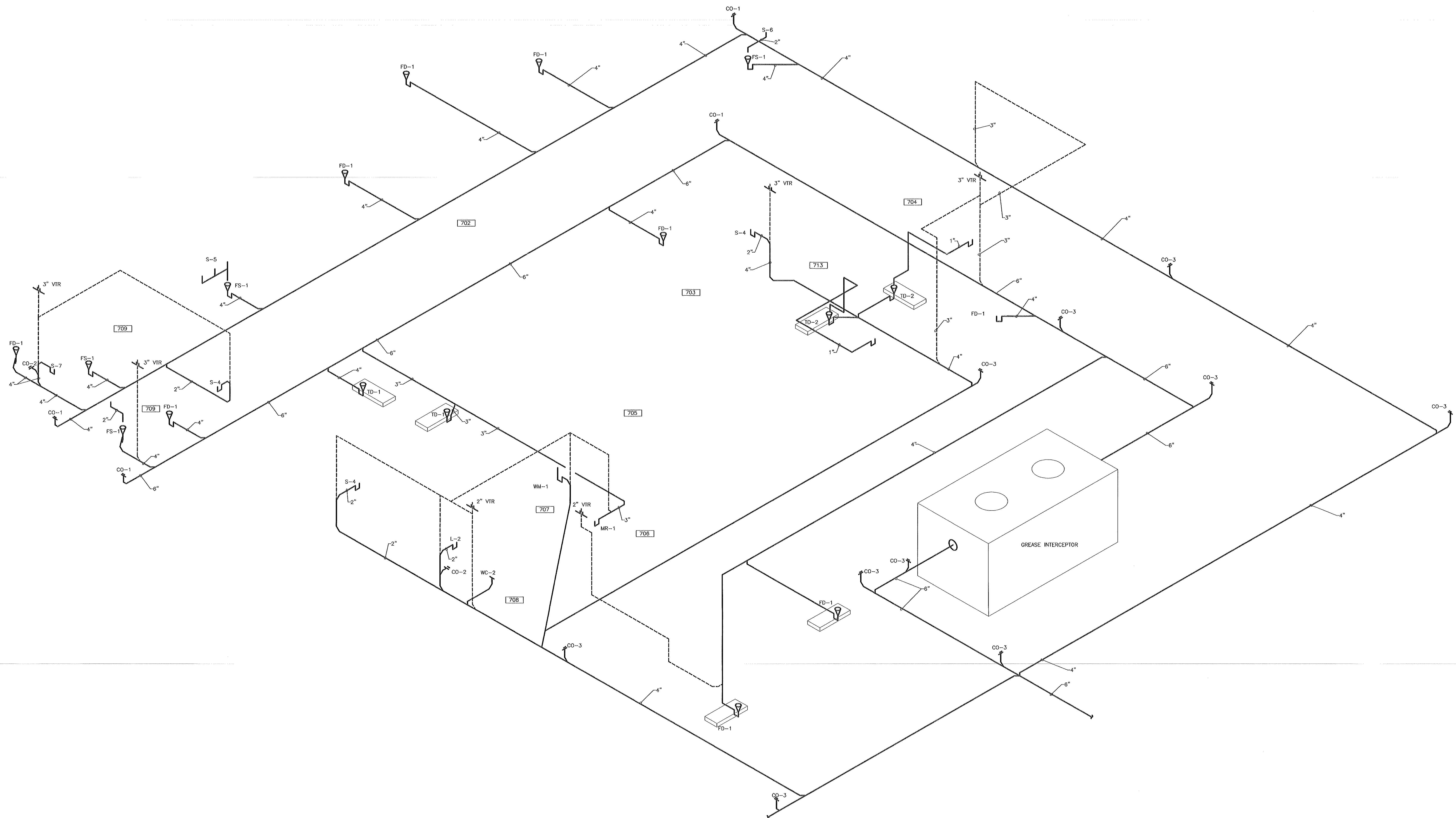


Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerlo**
Project Engineer: **Tom Beall**
drawn by: **Wynn P. Britt**
checked by: **Hank G. Hoomani**

no.	description	date

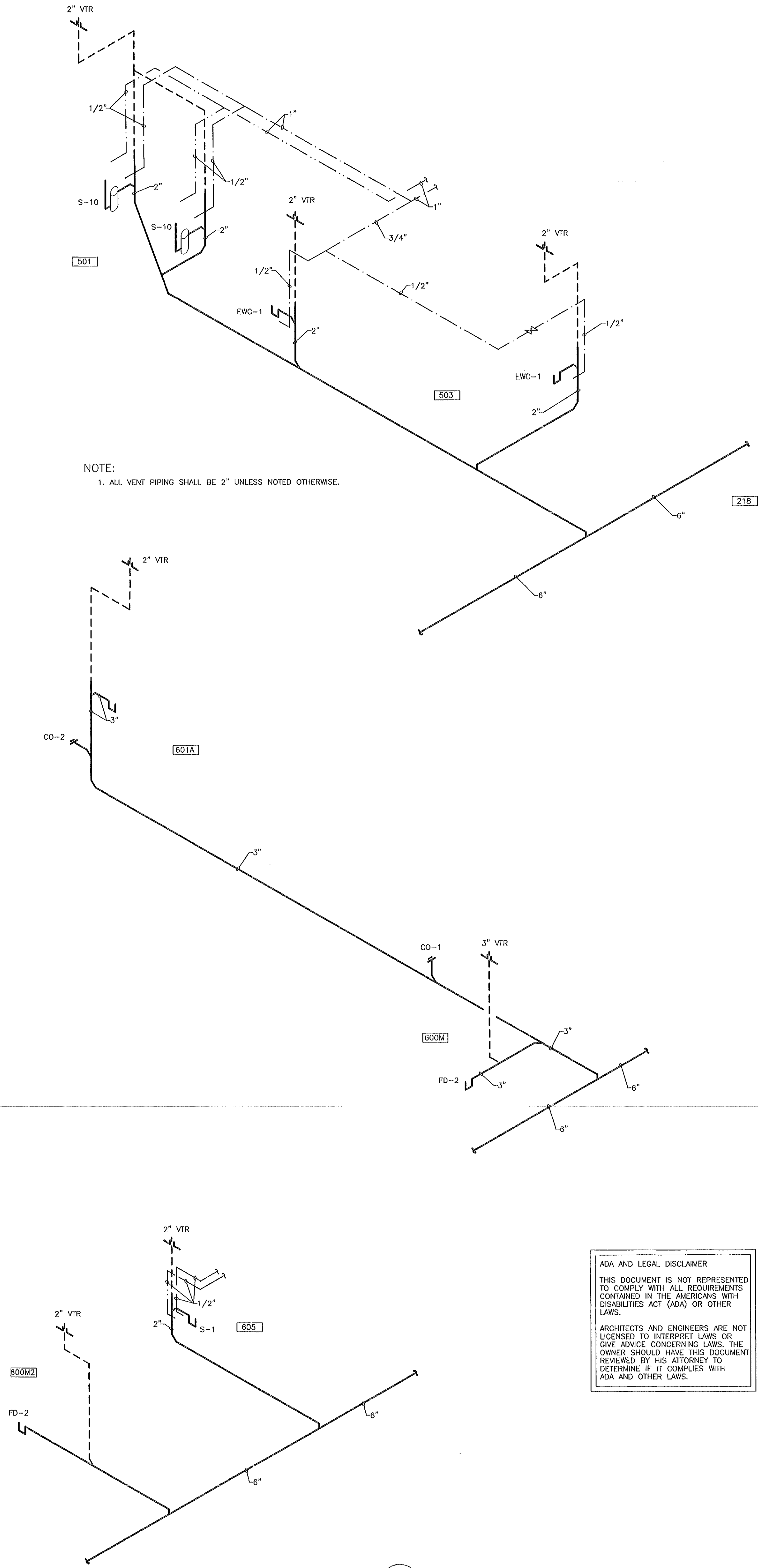


**Craven County
North Carolina**

sheet no. **P-11**

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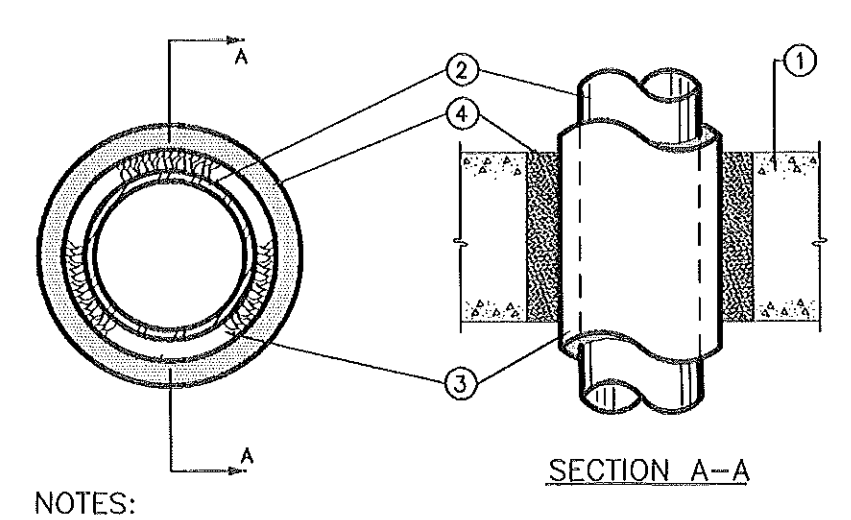
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NOTE:
1. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.

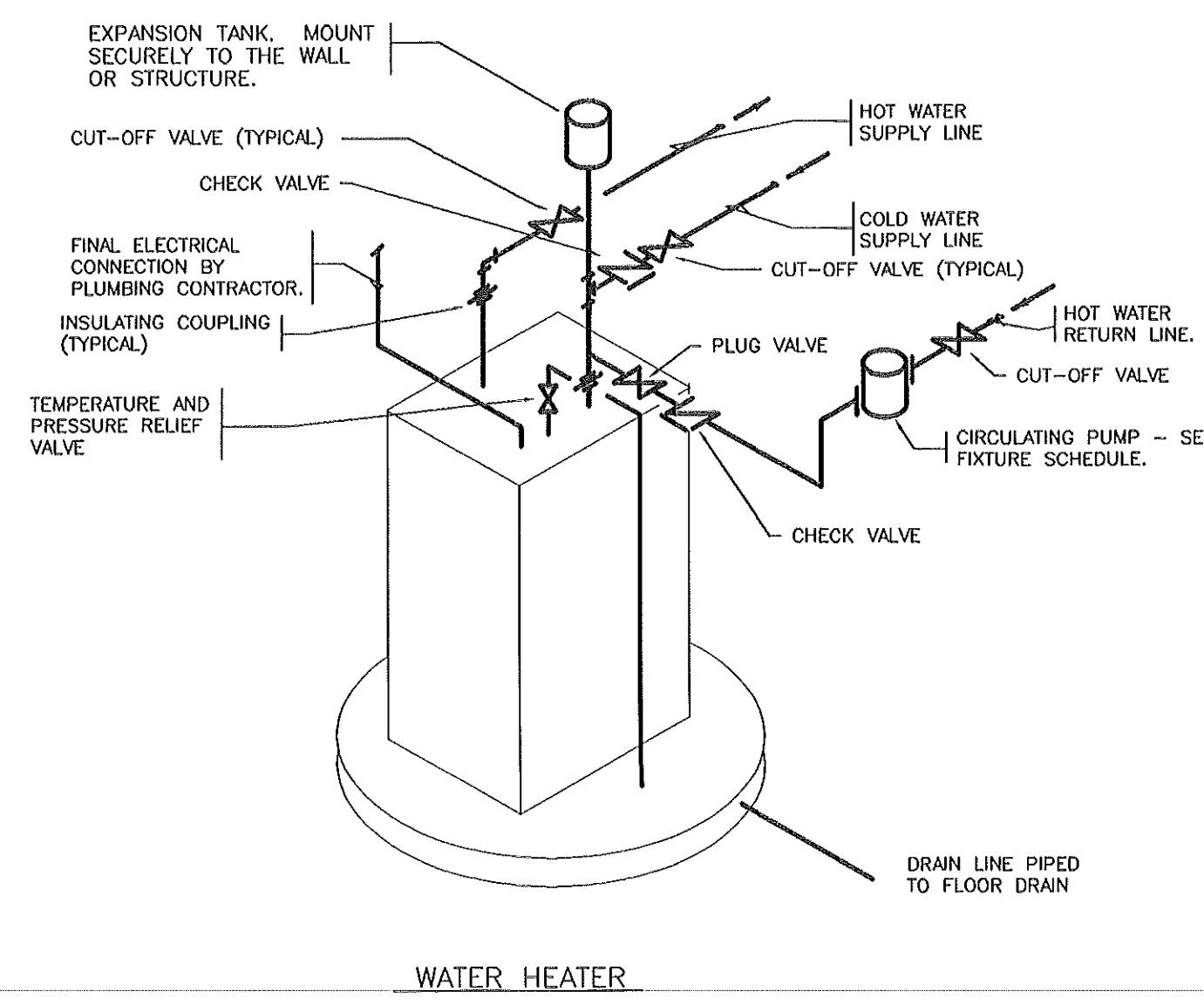
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3 PLUMBING RISERS
P-6 NOT TO SCALE

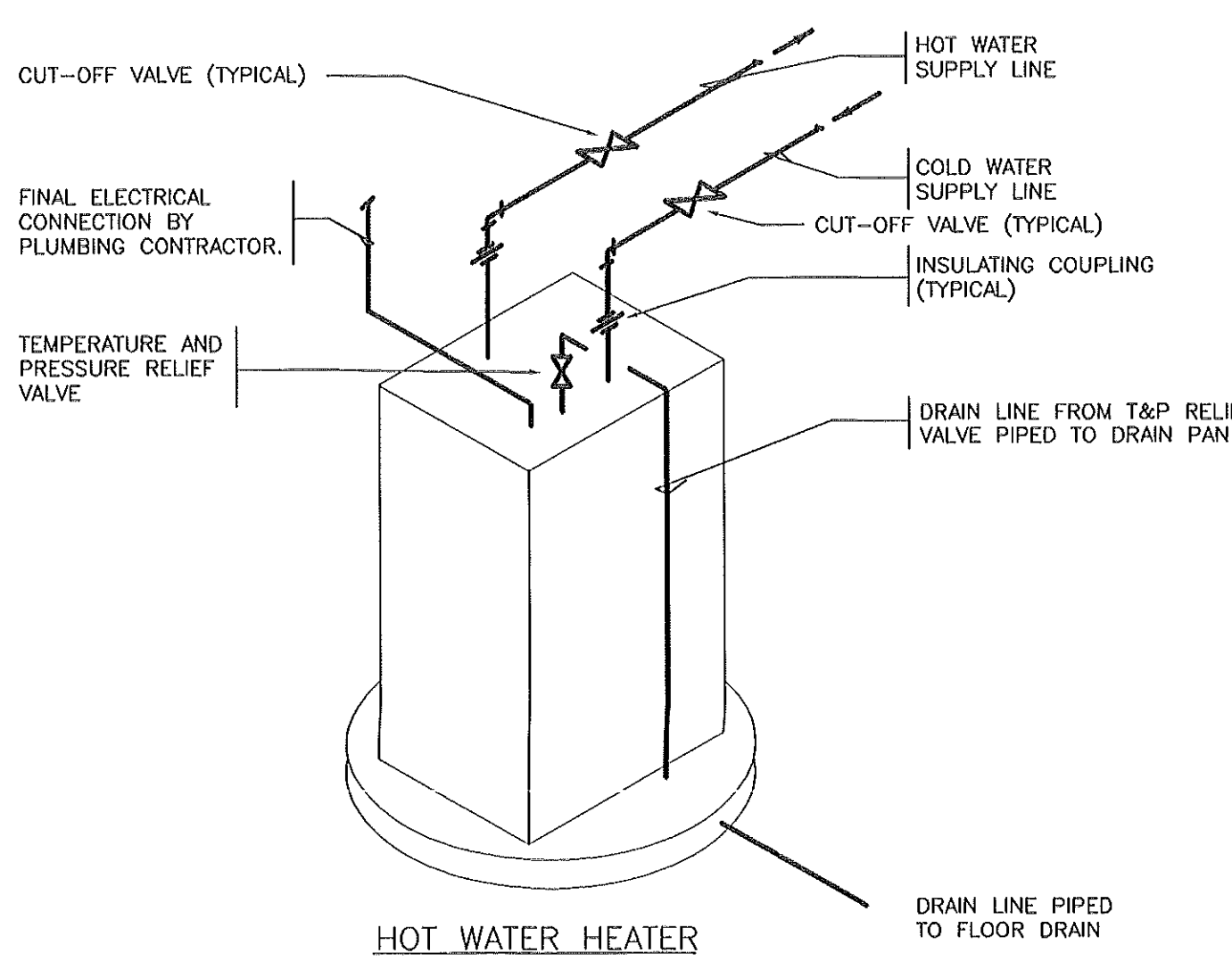


- NOTES:
- FLOOR OR WALL ASSEMBLY - MINIMUM 4-1/2 INCH OR MINIMUM 7-1/2 INCH THICK REINFORCED NORMAL WEIGHT (150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. F RATING IS 2 HOUR FOR FLOOR OR WALL ASSEMBLIES LESS THAN 7-1/2 INCH THICK, AND 3 HOUR WHEN 7-12 INCH THICK OR GREATER. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - THROUGH PENETRANTS - ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
A. STEEL PIPE - NOMINAL 4 INCH DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
B. CONDUIT - NOMINAL 4 INCH DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING OR STEEL CONDUIT
C. COPPER TUBING - NOMINAL 4 INCH DIAMETER (OR SMALLER)
 - PIPE COVERING* - NOMINAL 1 INCH THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MINIMUM 100 PCF) GLASS FIBER UNITS WITH OR WITHOUT A METALLIC POLYESTER-SEMI-KRAFT JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. A MINIMUM ANNUAL SPACE OF 1/16 INCH IS REQUIRED WITHIN THE FIRESTOP SYSTEM.
SEE PIPE AND EQUIPMENT COVERING - MATERIALS (BROG) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
 - FILL VOID OR CAVITY MATERIAL* - MORTAR - APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. CONTINUOUS MORTAR MIXED WITH WATER IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. MINIMUM MORTAR THICKNESS FOR A 2 OR 3 HOUR F RATING IS 4-1/2 OR 7-1/2 INCH, RESPECTIVELY.
INSTANT FIRESTOP CONTRACTING LTD - TYPE C-1000
* BEARING THE UL CLASSIFICATION MARKING.
- UL SYSTEM CAJ5034
F RATING - 2 AND 3 HOUR (SEE ITEMS 1 AND 4)
T RATING - 2 HOUR

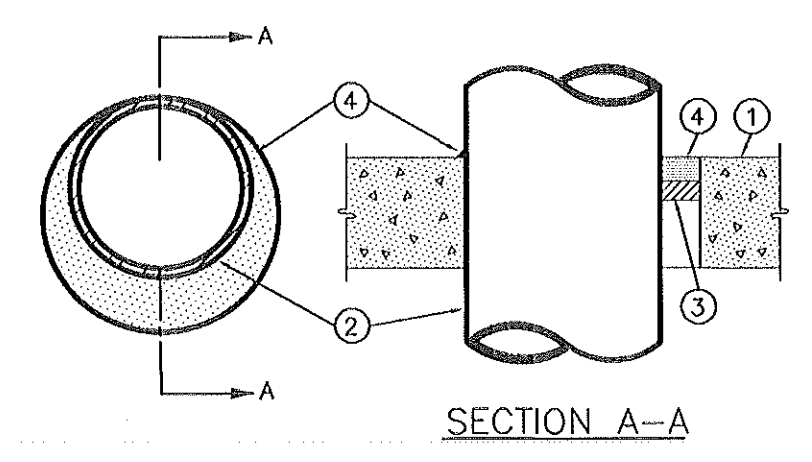
DETAIL 03
NOT TO SCALE



DETAIL 04
NOT TO SCALE

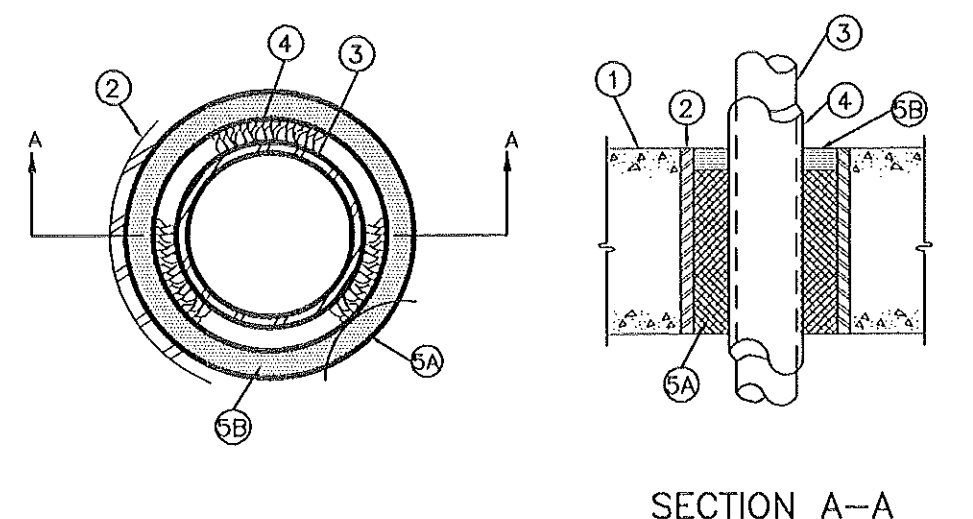


DETAIL 05
NOT TO SCALE



- SECTION A-A
- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX. DIAMETER OF CIRCULAR THROUGH OPENING IS 22-1/2 IN. SEE CONCRETE BLOCK (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.
 - CONDUIT - NOM 6 IN. DIAM (OR SMALLER) RIGID STEEL CONDUIT, NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE, NOM 4 IN. DIAM (OR SMALLER) STEEL EMT. MAXIMUM ONE CONDUIT PER THROUGH OPENING. MAXIMUM ANNUAL SPACE BETWEEN CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2-1/2 INCH MINIMUM ANNUAL SPACE BETWEEN CONDUIT AND EDGE OF THROUGH OPENING IS ZERO INCHES (POINT CONTACT). CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
 - PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF TIGHTLY-PAKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4). AS AN ALTERNATE WHEN MAX PIPE SIZE IS 10 IN. DIAM AND WHEN MAX ANNUAL SPACE IS 1 INCH OR LESS, A MINIMUM 1 INCH TIGHTLY-PAKED CERAMIC FIBER BLANKET OR MINERAL-WOOL BATT PACKING MATERIAL MAY BE RECESSED MINIMUM 1/2 INCH FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF WALL.
 - FILL VOID OR CAVITY MATERIALS - CAULK - APPLIED TO FILL THE ANNUAL SPACE TO THE MINIMUM THICKNESS SHOWN IN THE FOLLOWING TABLE.
- | MAXIMUM PIPE DIAMETER INCH | MAXIMUM ANNUAL SPACE INCH | PACKING MATERIAL TYPE (A) | MINIMUM CAULK THICKNESS INCH |
|----------------------------|---------------------------|---------------------------|------------------------------|
| 10 | 1 | BR, CF, GF OR MW | 1/2 (B) |
| 10 | 1 | CF OR MW | 1/2 (C) |
| 20 | 2-1/2 | BR CF GF OR MW | 1 (B) |
- (A) BR = POLYETHYLENE BACKER ROD.
CF = CERAMIC FIBER BLANKET
GF = GLASS FIBER INSULATION.
(B) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
(C) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF WALL.
- MINNESOTA MINING & MFG. CO. - TYPES CP-25 S/L, CP-25 N/S.
*BEARING THE UL CLASSIFICATION MARKING F RATING - 2 & 3 HR. (SEE ITEM 2A)
- PENETRATIONS BY PIPES, CONDUIT, AND DUCTS SHALL BE PROTECTED BY A SYSTEM WHICH HAS A F RATING AT LEAST EQUAL TO THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED.
- UL SYSTEM CAJ1001E
(FORMERLY NO. 49)
F RATING - 3 HOUR

DETAIL 01
NOT TO SCALE



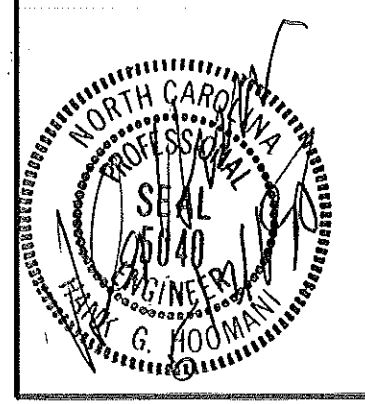
- SECTION A-A
- NOTES:
- FLOOR OR WALL ASSEMBLY - MINIMUM 4 1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-1500 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAXIMUM DIAMETER OF OPENING IS 6 5/8 INCHES. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - METALLIC SLEEVE - (OPTIONAL) - NOMINAL 6 INCH DIAMETER (OR SMALLER) SCHEDULE 40 STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.
 - THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
A. STEEL PIPE - NOMINAL 3 INCHES DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
B. COPPER TUBING - NOMINAL 3 INCHES DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING
C. COPPER PIPE - NOMINAL 3 INCHES DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE
 - PIPE COVERING* - NOMINAL 1 INCH THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MINIMUM 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. A NOMINAL ANNUAL SPACE OF 1/4 INCH IS REQUIRED WITHIN THE FIRESTOP SYSTEM.
SEE PIPE AND EQUIPMENT COVERING - MATERIALS (BROG) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
 - FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. PACKING MATERIAL - MINIMUM 4 INCH THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
B. FILL, VOID OR CAVITY MATERIAL* - CAULK - MINIMUM 1/2 INCH THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.
- A/D FIRE PROTECTION SYSTEM INC. - A/D SILICONE FIREBARRIER SEALANT [S/L (FLOORS ONLY) OR G/G (FLOOR OR WALLS)].
* BEARING THE UL CLASSIFICATION MARKING
- UL SYSTEM CAJ5027
(FORMERLY SYSTEM NO. 599)
F RATING - 3 HOUR
T RATING - 3/4 HOUR

RECORD DRAWINGS: FEBRUARY, 1998
THESE DRAWINGS HAVE BEEN REVISIONED TO SHOW CONTRACT CHANGES MADE DURING THE CONSTRUCTION PROCESS. BASED ON MARKED-UP PRINTS, DRAWINGS, AND OTHER DATA FURNISHED BY THE CONTRACTOR. ANY CHANGES MADE DURING CONSTRUCTION ARE NOT TO BE CONSIDERED AS "AS-BUILT".

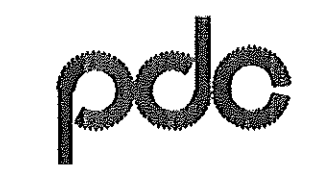
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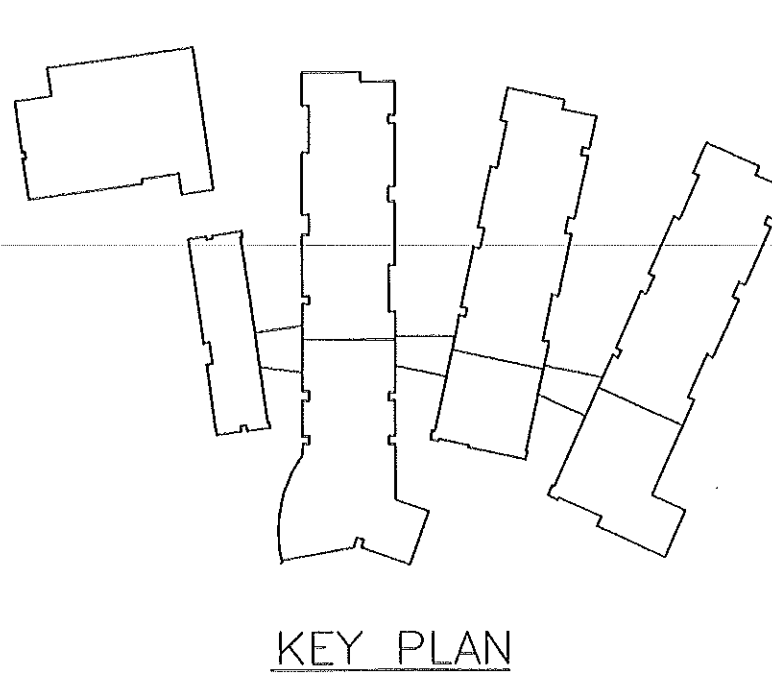


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Project Manager: John B. Knox, AIA
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Project Engineer: Tom Beall
drawn by: Steve Campbell
checked by: Hank G. Hoomanl

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no.	description	date
Revisions		



New Havelock Middle School

Craven County North Carolina

project title	
U.L. DETAILS PLUMBING DETAILS PLUMBING RISERS	
sheet title	AS NOTED scale:
9502.00 PDC #95045 project no.	sheet no. 12 of: 12
date	sheet no. P-12

released for construction:

AIR HANDLING UNIT SCHEDULE

FAN UNIT							DUAL TEMPERATURE COIL (COOLING MODE)							(HEATING MODE)				REMARKS	
MARK-AHU-	AREA SERVED	CFM	MAX. HP	EXT. STATIC PRESS.	TRANE MODEL	VOLT/#	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ENT. DB(°F)	ENT. WB(°F)	LEAV. DB(°F)	LEAV. WB(°F)	GPM	MINIMUM CAPACITY (MBH)	ENT. DB(°F)	LEAV. DB(°F)	GPM		
		SUPPLY AIR	OUTSIDE AIR																
AHU-1	ADMINISTRATION	4875	300	5	.55	10	480/3	114	103	75.5	62.6	57.4	55.1	23	150	70	100	15	
AHU-2	ADMINISTRATION	6825	195	7.5	.55	14		146	134	75.5	62.3	57.4	54.9	30	184	70	100	19	
AHU-3	CLASSROOM WING	8375	1700	7.5	.60	17		305	207	78.2	66.2	55.7	54.8	61	326	70	100	33	
AHU-4	CLASSROOM WING	10150	1950	10	.60	21		334	230	78.1	65.9	55.8	54.8	67	332	70	100	34	
AHU-5	CLASSROOM WING	8375	1700	7.5	.60	17		305	207	78.2	66.2	55.7	54.8	61	276	70	100	28	
AHU-6	CLASSROOM WING	10150	1950	10	.60	21		334	230	78.1	65.9	55.8	54.8	67	332	70	100	34	
AHU-7	CLASSROOM WING	8375	1700	7.5	.60	17		305	207	78.2	66.2	55.7	54.8	61	326	70	100	33	
AHU-8	CLASSROOM WING	10150	1950	10	.60	21		334	230	78.1	65.9	55.8	54.8	67	332	70	100	34	
AHU-9	MEDIA CENTER	5250	950	5	.45	10		181	128	80.2	66.6	57.7	55.4	37	170	70	100	17	③
AHU-10	COMPUTER ROOM	1200	300	1/4	.30	HUV-125	120/1	43	29	79.5	66.6	54.2	53.0	9	40	70	100	4	①
AHU-11	CLASSROOM WING	5950	600	5	.50	12	480/3	173	142	76.4	63.8	55.4	54.4	35	196	70	100	20	
AHU-12	CLASSROOM WING	4200	750	5	.50	10		150	98	78.3	66.2	55.3	54.4	30	139	70	100	14	
AHU-13	CAFETERIA	9750	3650	7.5	.45	14		422	257	79.5	67.3	55	54.2	85	248	70	100	25	
AHU-14	KITCHEN	4325	500	5	.40	10		136	106	77.1	64.0	54.4	52.8	28	143	70	100	15	
AHU-15	GYMNASIUM	11200	3000	10	.60	21		501	316	79.2	67.3	53.8	52.8	-	PROV. WITH 40 KW AUX. DUCT HTR. 480/3, 4 STAGE			⑤ DX-COIL ⑥	
AHU-16	PE WING	4500	600	3	.45	TWE120		123	99	75.7	62.2	55.4	53.1	-	PROV. WITH 25 KW AUX. DUCT HTR. 480/3, 2 STAGE			DX-COIL ⑥	
AHU-17	LOCKER ROOMS	1100	0	1	.60	TWE036	208/1	33	28	75.2	62.7	55.4	54.7	-	PROV. WITH 5 KW AUX. DUCT HTR. 208/1, 1 STAGE			DX-COIL ⑥	
AHU-18	LOBBY AREA	1500	0	1/4	0	VUV-150	120/1	48	37	75.0	62.5	55.0	54.7	9.47	50	70	100	5	②
AHU-19	LOBBY AREA	1500	0	1/4	0	VUV-150		48	37	75.0	62.5	55.0	54.7	9.47	50	70	100	5	②
AHU-20	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-21	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-22	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-23	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-24	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-25	LOBBY AREA	1200	0	1/4	0	VUV-120		37	30	75.0	62.5	55.0	54.7	7.33	40	70	100	4	②
AHU-26	COMPUTER ROOM	1500	350	1/4	0	HUV-150		48	35	77.0	64.5	55.0	54.7	9.47	50	70	100	5	①
AHU-27	COMPUTER ROOM	1500	350	1/4	0	HUV-150		48	35	75.0	62.5	55.0	54.7	9.47	50	70	100	5	①
AHU-28	COMPUTER ROOM	1500	350	1/4	0	HUV-150		48	35	75.0	62.5	55.0	54.7	9.47	50	70	100	5	①
AHU-29	CLASSROOM WING	2400	350	2	.50	6	480/3	72	57	78.2	66.2	55.7	54.8	15	80	70	100	8	④
AHU-30	CLASSROOM WING	2000	350	2	.40	6		60	48	78.1	65.9	55.8	54.8	12	66	70	100	7	④
AHU-31	CLASSROOM WING	2400	350	2	.50	6		72	57	78.2	66.2	55.7	54.8	15	80	70	100	8	④
AHU-32	CLASSROOM WING	2000	350	2	.40	6		60	48	78.1	65.9	55.8	54.8	12	66	70	100	7	④
AHU-33	CLASSROOM WING	2400	350	2	.50	6		72	57	78.2	66.2	55.7	54.8	15	80	70	100	8	④
AHU-34	CLASSROOM WING	2000	350	2	.40	6		60	48	78.1	65.9	55.8	54.8	12	66	70	100	7	④
AHU-35	AUDITORIUM	5500	2100	5	.50	12		285	165	81.0	69.7	53.7	52.8	57	182	70	100	19	
AHU-36	BAND ROOM	3050	765	2	.40	6		122	80	78.9	67.0	54.7	54.0	25	101	70	100	11	
AHU-37	WRESTLING	3200	350	2	0	TWE120		96	77	77.0	64.5	55.0	54.7	-	PROV. WITH 25 KW AUX. DUCT HTR. 480/3, 2 STAGE			⑥	

- NOTES:

 - WATERSIDE PRESSURE DROP- 10" MAXIMUM FOR CHILLED WATER COIL SHALL BE A MINIMUM OF 6 ROWS.
 - AIRSIDE PRESSURE: 1" MAXIMUM FOR COIL .4" FOR FILTER
 - MAXIMUM FACE VELOCITY IS 550 FPM.
 - VERTICAL DRAW-THRU UNIT.
 - 45/55 EWT/LWT COOLING 180/160 EWT/LWT HEATING
 - SUPPLY WITH COMBINATION FILTER MIXING BOX.
 - ONE SPARE SET OF BELTS FOR EACH AHU SHALL BE TURNED OVER TO THE OWNER AT THE END OF THE PROJECT. A LIST OF BELT SIZES AND NUMBER NEEDED PER AHU SHALL BE GIVEN TO OWNER AT END OF PROJECT.
- REMARKS:

 - UNIT VENTILATOR IN CEILING WITH 100% AIR-SIDE ECONOMIZER CAPABILITIES. UNIT SHALL BE FLUSH WITH CEILING WITH INTEGRAL RETURN GRILLE. COLOR SHALL BE DRIFTWOOD GREY. CONTROLLED BY DDC SYSTEM.
 - VERTICAL FLOOR MOUNTED UNITS WITH FACTORY MOUNTED CONTROLS. COLOR SHALL BE DRIFTWOOD GREY. PROVIDE WITH INTERNAL FACTORY INSTALLED VALVE PACKAGE.
 - PROVIDE WITH 7 KW ELECTRIC DUCT HEATER. SEE SHEET M-6. 2-STAGE, 480/3.
 - ALTERNATE M-1
 - PROVIDE WITH TWO-SPEED MOTOR FOR HUMIDITY CONTROL.
 - ALTERNATE M-2

NOTE: ALL DX UNITS WITH AUXILIARY ELECTRIC HEAT SHALL HAVE A SINGLE POINT OF ELECTRICAL CONNECTION.

HEAT PUMP CONDENSING UNITS

MARK	MAKE	MODEL	TONS	EER	VOLT/PHASE	REMARKS
CU-15A	TRANE	TWE240	20	11.4	480/3	① ②
CU-15B	TRANE	TWE240	20	11.4	480/3	① ②
CU-16	TRANE	TWE120	10	8.9	480/3	②
CU-17	TRANE	TWP506	3	12.8	208/1	②
CU-37	TRANE	TWE120	10	8.9	480/3	②

- EACH UNIT SHALL BE CONNECTED TO AHU-15 BY A SEPERATE CIRCUIT AND SHALL BE CONTROLLED IN FOUR STAGES.
- ALTERNATE M-2

AIR INTAKE AND RELIEF VENTS

MARK	MAKE	MODEL	SIZE	SP	CFM	FREE AREA(SQ FT)	REMARKS
RV-1	GREENHECK	GRS-10	19x19	.125	420	0.57	① ②
RV-2	GREENHECK	FHI	30x30	.125	4000	6.25	① ②
RV-3	GREENHECK	FHI	30x30	.125	4000	6.25	① ②
RV-4	GREENHECK	FHI	30x30	.125	4000	6.25	① ②
RV-5	GREENHECK	GRS-14	24x24	.125	950	1.12	① ②
RV-6	GREENHECK	GRS-10	19x19	.125	500	0.82	① ②
RV-7	GREENHECK	FHI	30x30	.125	4000	6.25	① ②
RV-8	GREENHECK	GRS-16	26x26	.125	1200	1.45	① ② ③
RV-9	GREENHECK	GRS-18	30x30	.125	1500	1.83	① ② ③
RV-10	GREENHECK	GRS-18	30x30	.125	1350	1.83	① ②
RV-11	GREENHECK	GRS-18	30x30	.125	1500	1.83	① ② ③
RV-12	GREENHECK	GRS-18	30x30	.125	1500	1.83	① ② ③
RV-13	GREENHECK	GRS-12	22x22	.125	700	0.82	① ②
RV-14	GREENHECK	GRS-12	22x22	.125	700	0.82	① ②
RV-15	GREENHECK	GRS-12	22x22	.125	700	0.82	① ②
RV-16	GREENHECK	FHI	24x24	.125	2885	4.0	① ②

- REMARKS:
- ALUMINUM. DO NOT PAINT.
 - PROVIDE WITH ROOF CURB.
 - PROVIDE WITH MOTORIZED DAMPER, 120/1. DAMPER SHALL BE SUPPLIED BY CONTROLS MANUFACTURER.

PUMP SCHEDULE

MARK	SERIES	MAKE	MODEL	GPM	HEAD(FT)	HP	RPM	VOLT/#	REMARKS
P-1	1510	B&G	58C	915	75	25	1750	480/3	
P-2	1510	B&G	49C	336	50	7.5	1750	480/3	
P-3	1510	B&G	49C	336	50	7.5	1750	480/3	
P-4	1510	B&G	2-1/2 AB	190	40	3	1750	480/3	
P-5	1510	B&G	2-1/2 AB	190	40	3	1750	480/3	

- NOTES:
- PROVIDE WITH SUCTION DIFFUSER.
 - SEE DETAIL M11-01.

FAN SCHEDULE

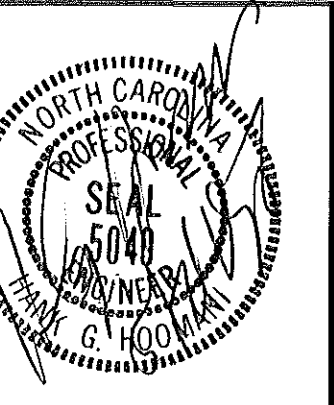
DESIGN	MAKE	MODEL	CFM	S.P.	SONES	HP	VOLTS/#	REMARKS
F-1	GREENHECK	GB-65	150	0.25	3	1/60	115/1	① ② ③
F-2	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-3	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-4	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-5	GREENHECK	GB-180	3000	0.25	12	1/2	115/1	① ② ③
F-6	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-7	GREENHECK	GB-65	100	0.25	8	1/60	115/1	① ② ③
F-8	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-9	GREENHECK	GB-180	3000	0.25	12	1/2	115/1	① ② ③
F-10	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-11	GREENHECK	GB-65	100	0.25	3	1/25	115/1	① ② ③
F-12	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-13	GREENHECK	GB-180	3000	0.25	12	1/2	115/1	① ② ③
F-14	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-15	GREENHECK	GB-70	250	0.25	3	1/25	115/1	① ② ③
F-16	GREENHECK	GB-80	500	0.25	8	1/4	115/1	① ② ③
F-17	GREENHECK	GB-160	1800	0.25	8	1/4	115/1	① ② ③
F-18	GREENHECK	CUBE-100	700	0.25	8	1/4	115/1	① ② ③
F-19	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-20	GREENHECK	GB-80	500	0.25	8	1/4	115/1	① ② ③
F-21	GREENHECK	GB-80	500	0.25	8	1/4	115/1	① ② ③
F-22	GREENHECK	GB-160	1100	0.25	8	1/4	115/1	① ② ③
F-23	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-24	GREENHECK	GB-100	700	0.25	8	1/4	115/1	① ② ③
F-25	GREENHECK	GB-80	400	0.25	3	1/4	115/1	① ② ③
F-26	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-27	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-28	GREENHECK	GB-70	200	0.25	3	1/25	115/1	① ② ③
F-29	GREENHECK	GB-100	1000	0.25	8	1/4	115/1	① ② ③
F-30	GREENHECK	GB-180	2100	0.25	3	1/4	115/1	① ② ③
F-31	GREENHECK	GB-70	200	0.25	8	1/25	115/1	① ② ③
F-32	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-33	GREENHECK	GB-100	750	0.25	8	1/4	115/1	① ② ③
F-34	GREENHECK	GB-65	100	0.25	8	1/25	115/1	① ② ③
F-35	GREENHECK	GB-100	750	0.25	8	1/4	115/1	① ② ③
F-36	GREENHECK	GB-65	100	0.25	3	1/60	115/1	① ② ③
F-37	GREENHECK	GB-90	750	0.25	8	1/4	115/1	① ② ③
F-38	GREENHECK	GB-65	100	0.25	3	1/25	115/1	① ② ③
F-39	GREENHECK	GB-65	100	0.25	3	1/25	115/1	① ② ③
F-40	GREENHECK	GB-70	300	0.25	3	1/25	115/1	① ② ③
F-41	GREENHECK	GB-80	200	0.25	3	1/25	115/1	① ② ③
F-42	GREENHECK	GB-130	1400	0.25	3	1/4	115/1	① ② ③
F-43	GREENHECK	GB-130	1400	0.25	3	1/4	115/1	① ② ③
F-44	GREENHECK	GB-130	1400	0.25	3	1/4	115/1	① ② ③

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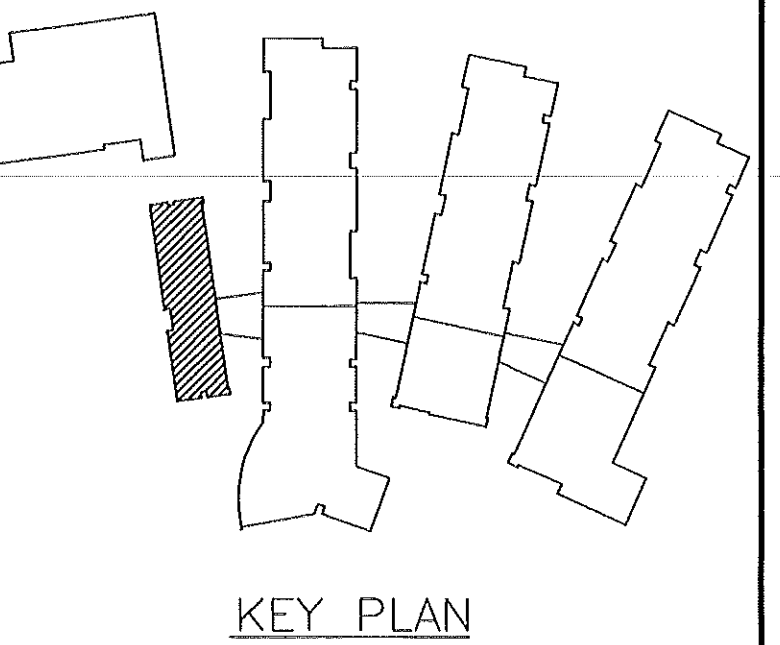


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no.	description	date
Revisions		



New Havelock Middle School

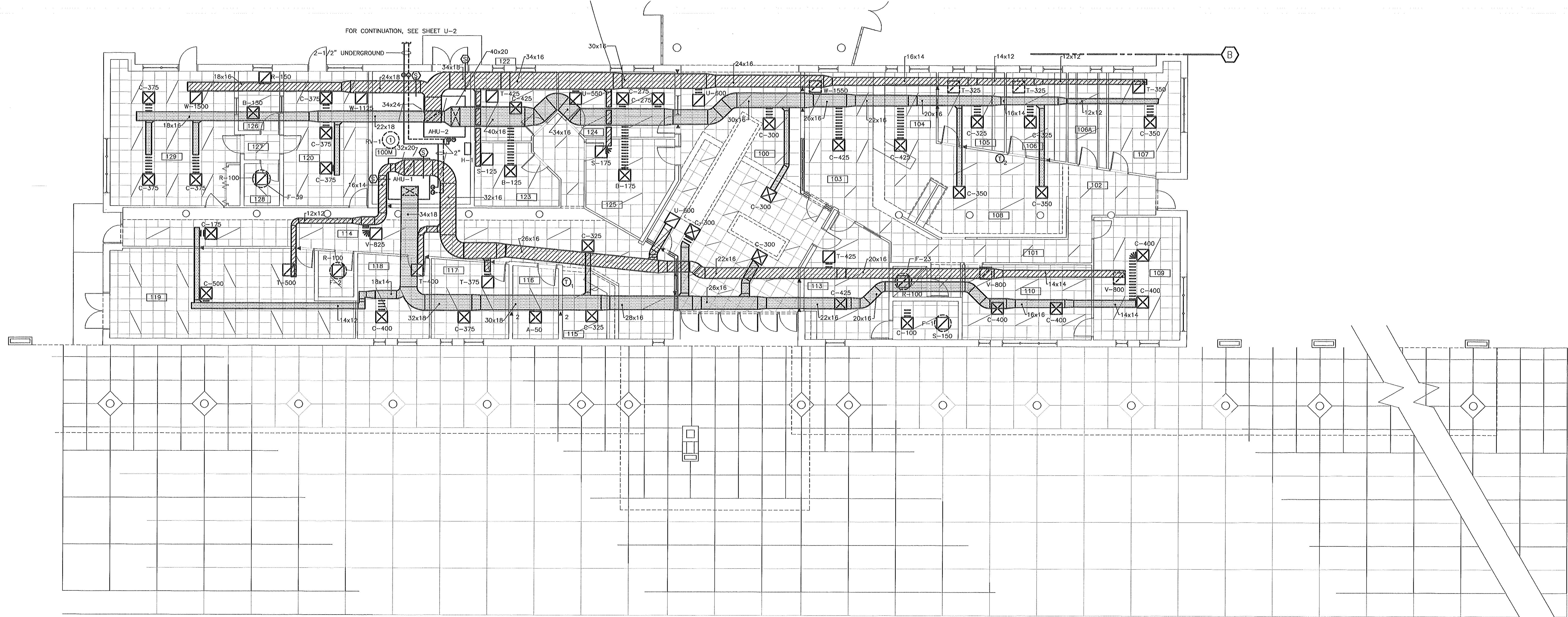
Craven County
North Carolina

project title

WING
ADMINISTRATION
MECHANICAL PLAN
sheet title
1/8" = 1'-0"
scale:

9502.00
PDC #95045
project no.
sheet no. 2 of 12

1/15/96
date
sheet no. **M-2**



1 MECHANICAL PLAN
M-2 1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

① ROUTE 10x10 OUTSIDE AIR DUCTWORK TO THE MIXING BOX OF BOTH AIR HANDLING UNITS.

NOTES:

1. ALL DUCTWORK THRU FIRE RATED WALLS WITH DAMPERS SHOWN SHALL PENETRATE WALL AT A 90 DEGREE ANGLE.

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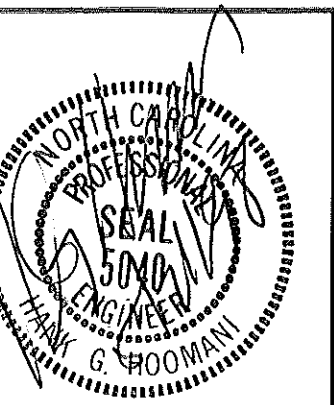
BID ALTERNATE 1 BASE BID

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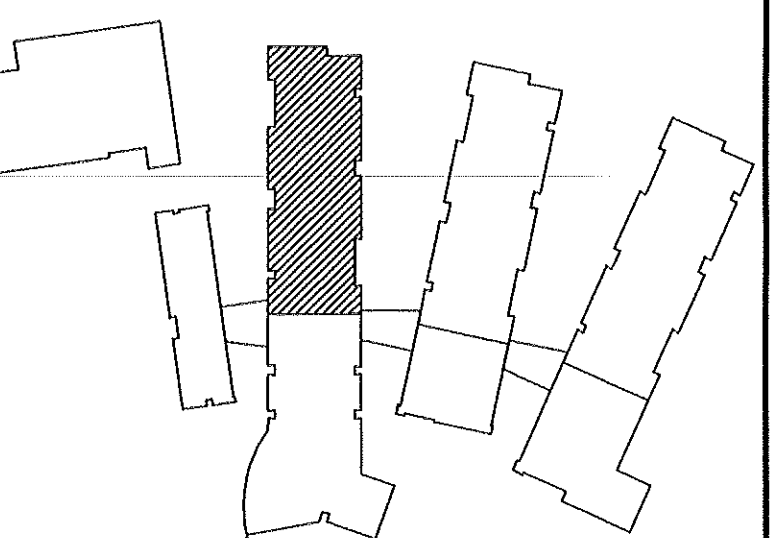


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Project Engineer: J. Tim Griffin
drawn by: Chris Hoomani
checked by: Hank G. Hoomani

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no.	description	date
Revisions		



KEY PLAN

New Havelock Middle School

Craven County North Carolina

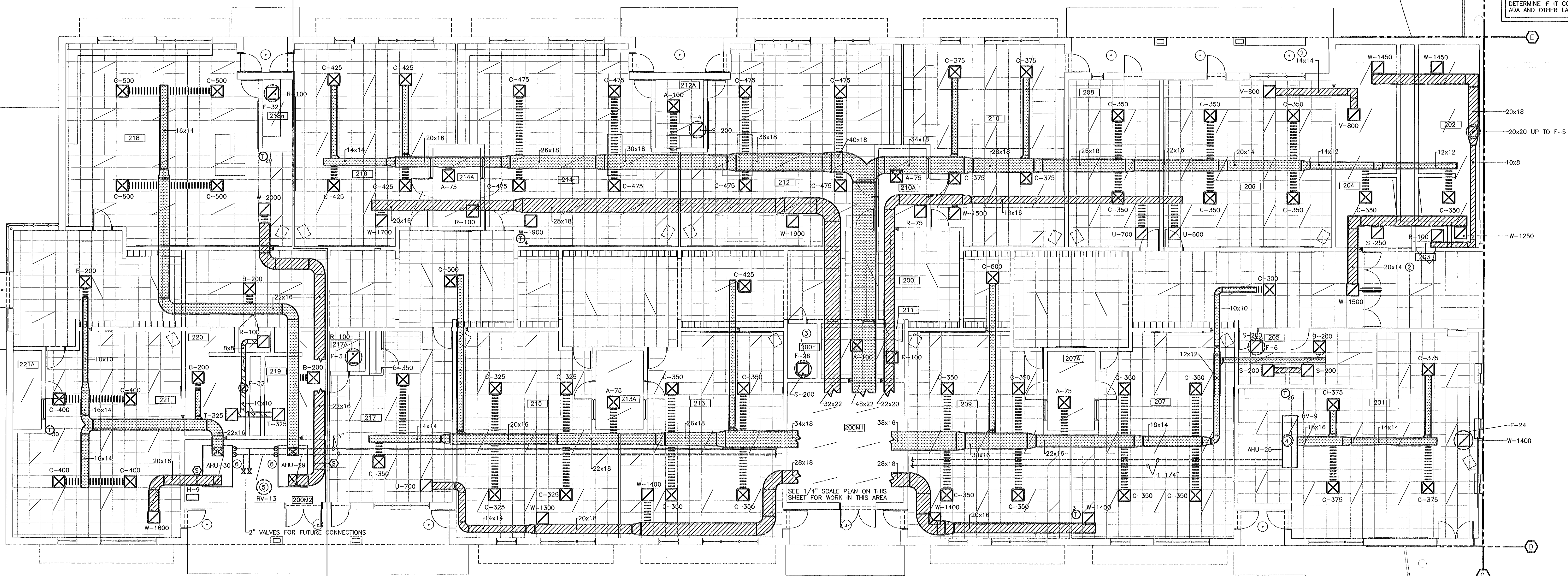
project title

MECHANICAL PLAN AS SHOWN
sheet title scale:

9502.00
PDC #95045
project no. sheet no. 3 of: 12

1/15/96
date sheet no. M-3

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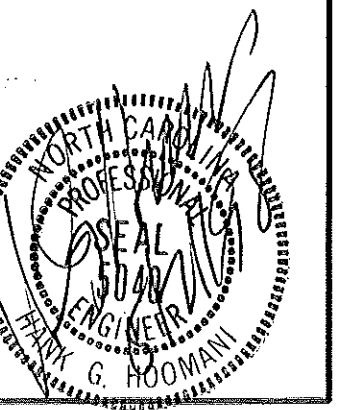


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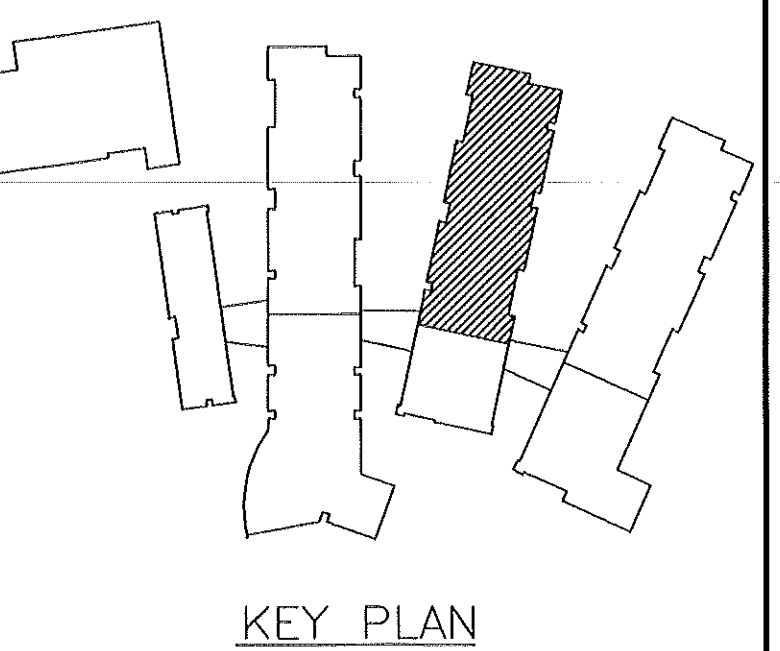


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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

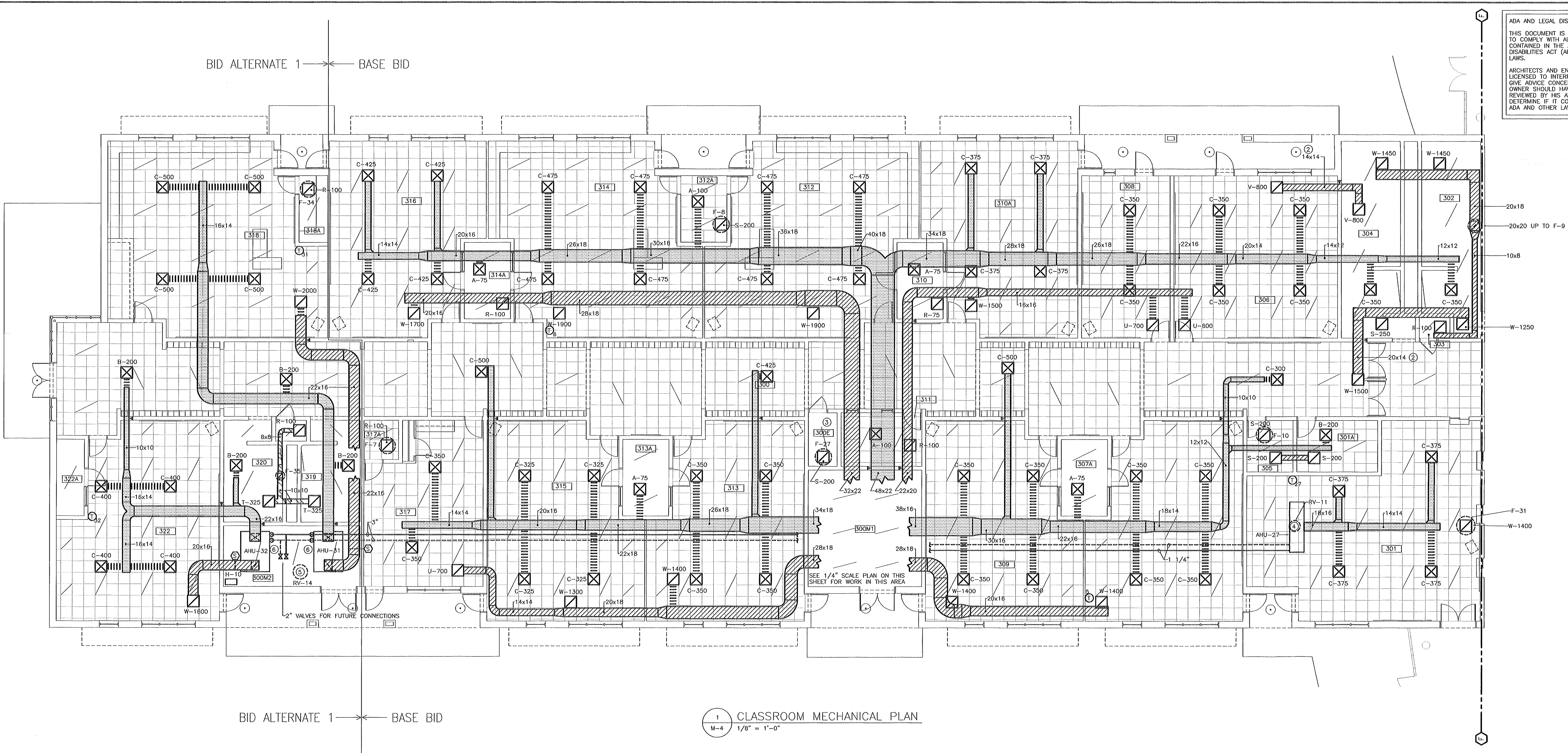
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sheet title scale:

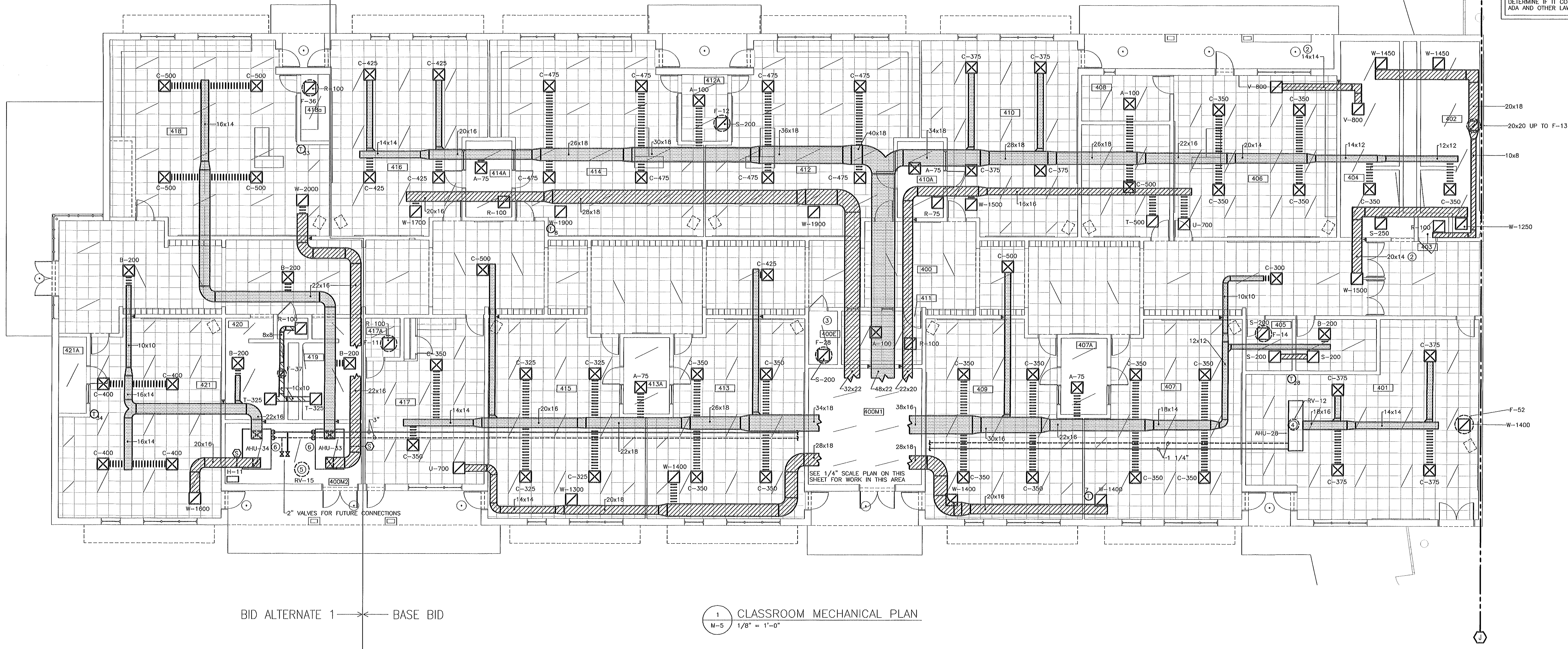
9502.00
PDC #95045
project no. sheet no. 4 of: 12

1/15/96
date sheet no. **M-4**

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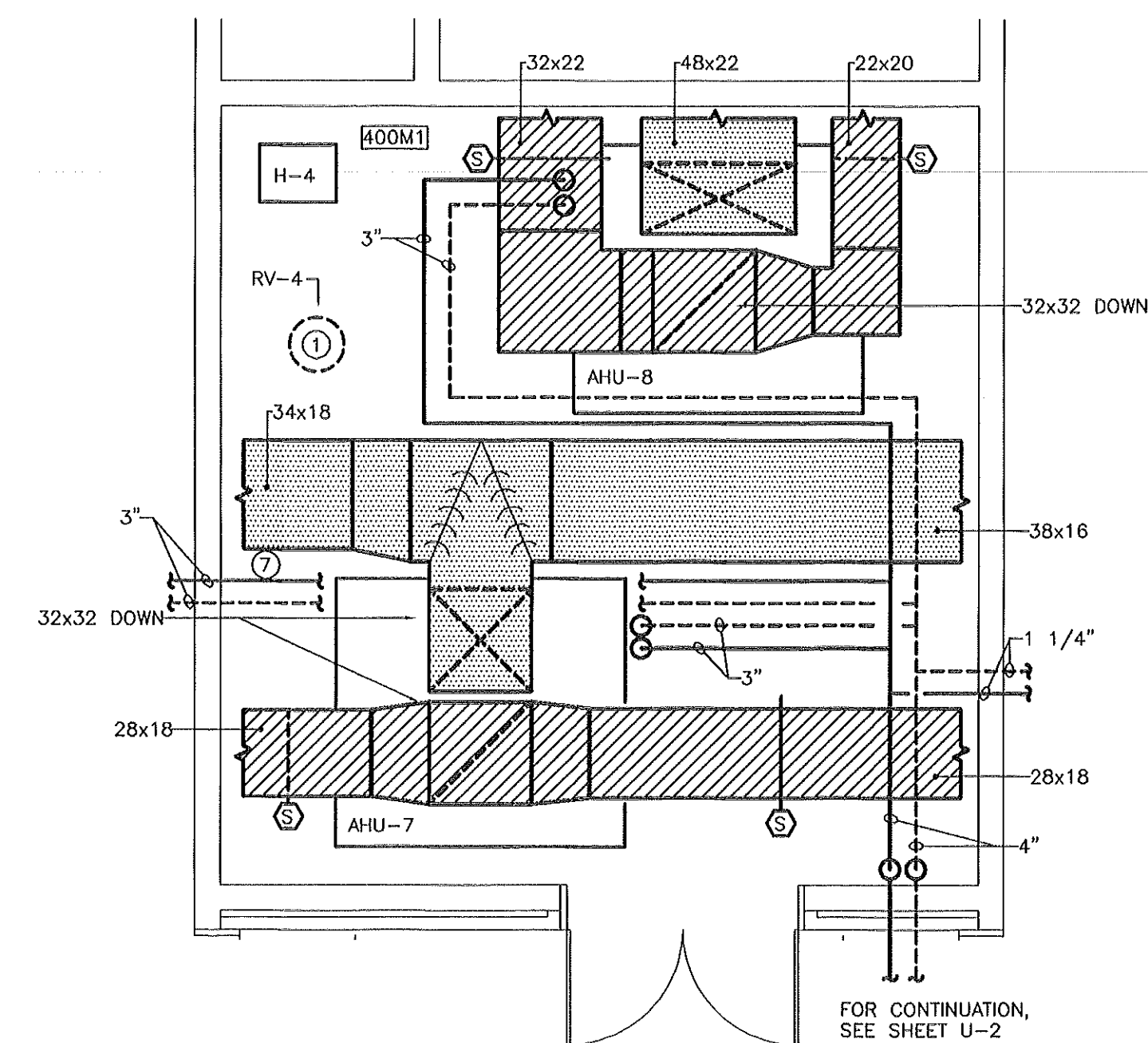


BID ALTERNATE 1 — BASE BID



BID ALTERNATE 1 — BASE BID

1 CLASSROOM MECHANICAL PLAN
1/8" = 1'-0"



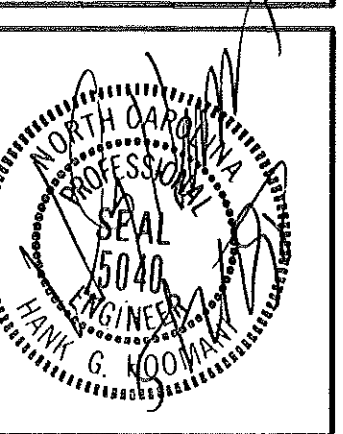
2 MECHANICAL ROOM PLAN
1/4" = 1'-0"

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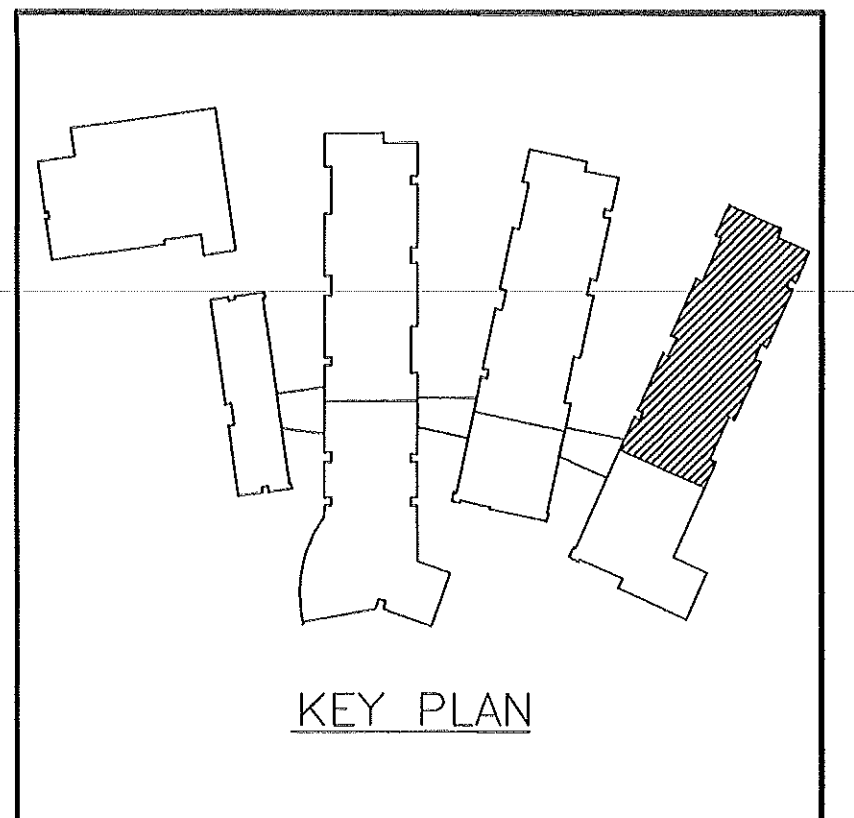


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drawn by: **Chris Hoomani**
checked by: **Hank G. Hoomani**

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Revisions		



New Havelock Middle School

Craven County
North Carolina

project title	
MECHANICAL PLAN	AS SHOWN
sheet title	scale:
8502.00 PDC #95045 project no.	sheet no. 5 of: 12
1/15/96 date	sheet no. M-5

RECORD DRAWINGS, FEBRUARY 1998

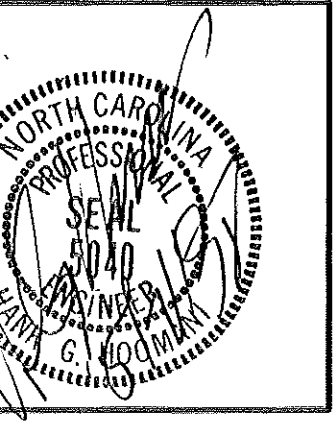
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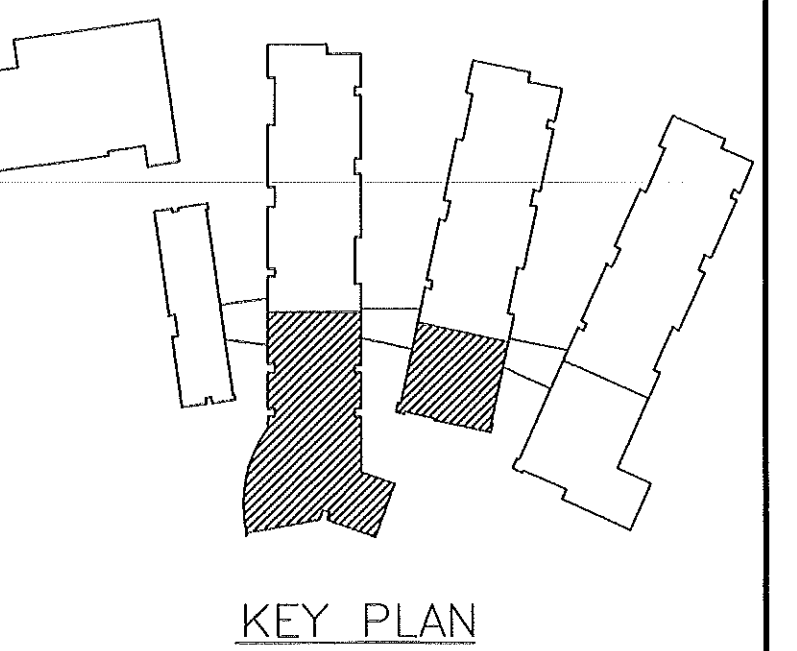


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Revisions		



New Havelock Middle School

Craven County
North Carolina

project title
ART/BAND WING
MEDIA CENTER
MECHANICAL PLAN
sheet title
1/8" = 1'-0"
scale:

9502.00
PDC #95045
project no.
sheet no. 6 of 12

1/15/96
date
sheet no. **M-6**

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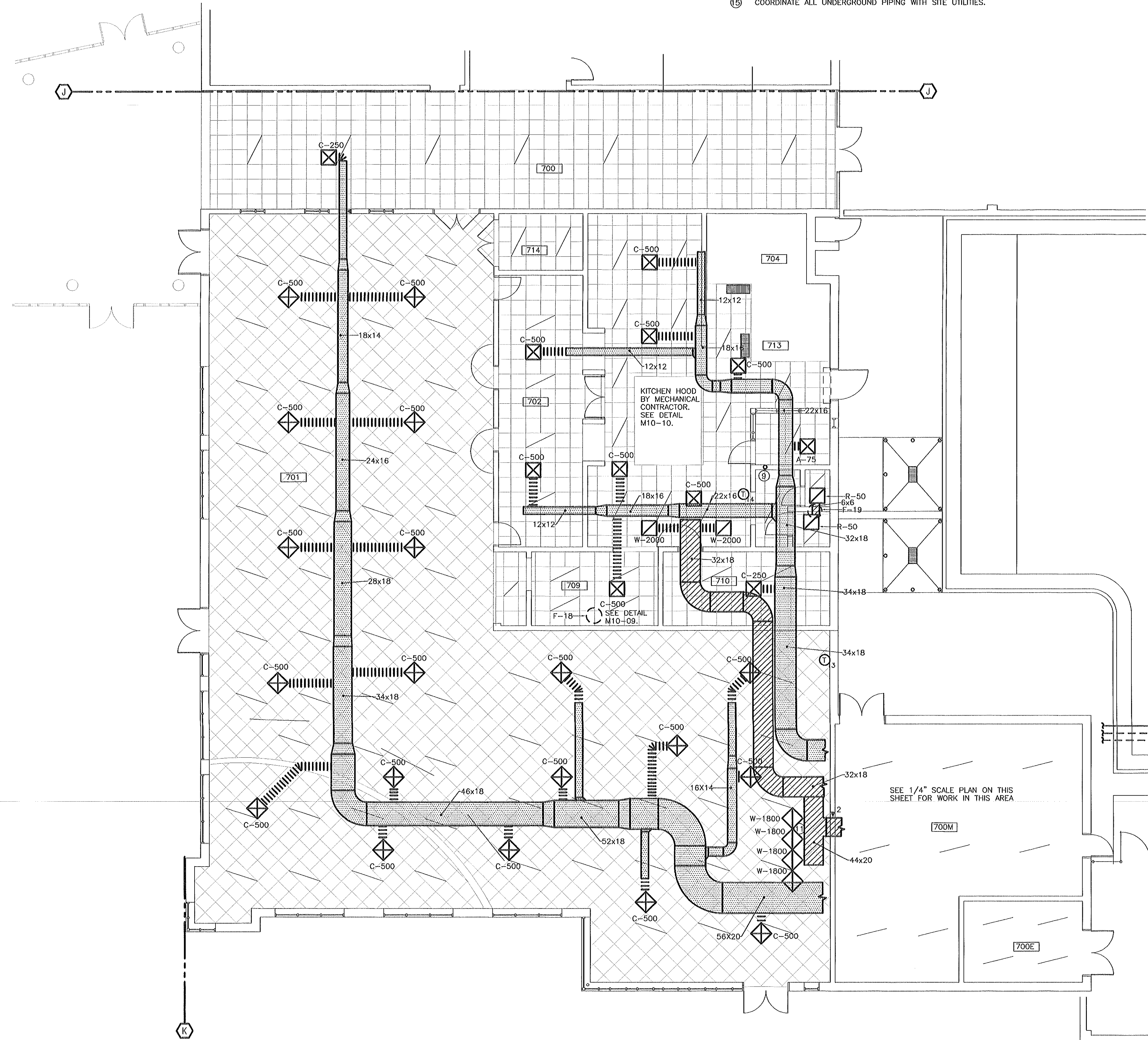
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- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ROUTE 14x14 OUTSIDE AIR DUCTWORK FROM ROOF VENT TO AHU MIXING BOX.
 - ROUTE 14x14 OUTSIDE AIR DUCTWORK FROM ROOF VENT TO EACH AHU MIXING BOX.
 - 7 KW ELECTRIC DUCT HEATER.
 - ROUTE 18x18 OUTSIDE AIR DUCTWORK FROM ROOF VENT TO AHU-35 MIXING BOX AND 14x14 OUTSIDE AIR DUCTWORK TO AHU-36 MIXING BOX.

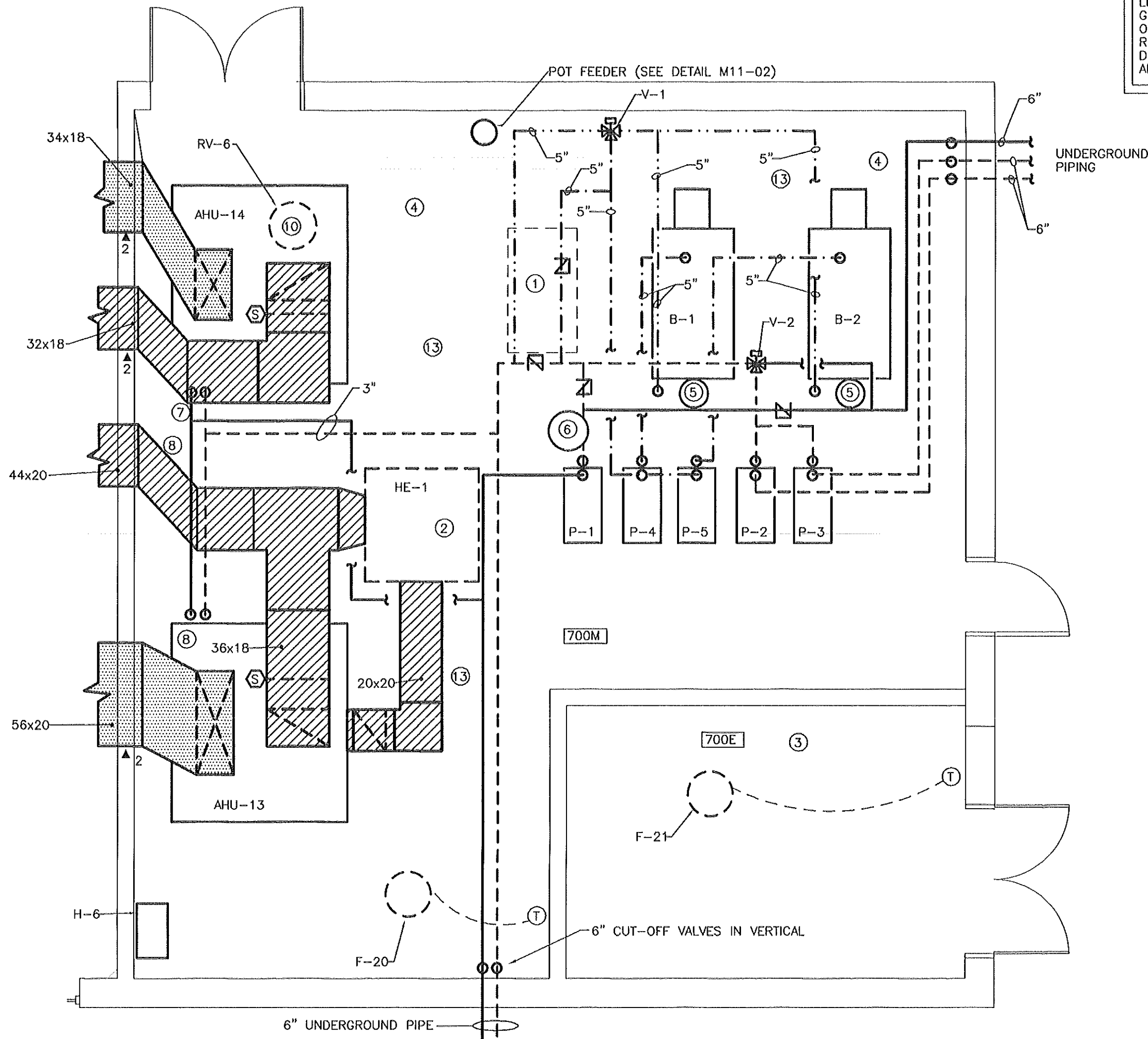
1 ART/BAND WING MECHANICAL PLAN
M-6 1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

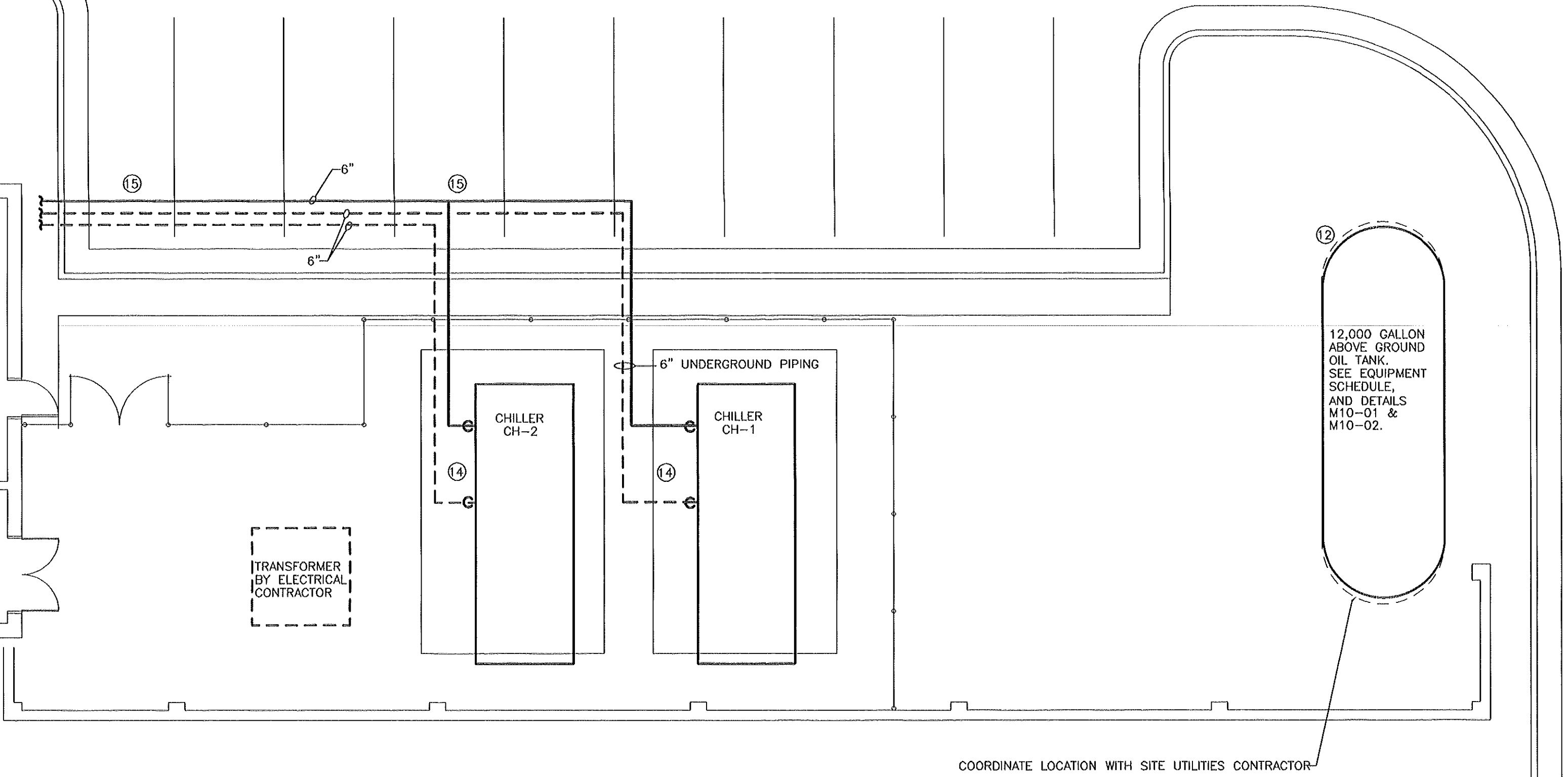
- 1 LOCATION OF WATER HEATER BY PLUMBING CONTRACTOR.
- 2 AIR TO AIR HEAT EXCHANGER. SEE DETAIL M11-04.
- 3 ELECTRICAL ROOM. DO NOT RUN ANY PIPES OR DUCTWORK OVER THIS ROOM.
- 4 ALL PIPING IN THE MECHANICAL ROOM IS 6" UNLESS OTHERWISE NOTED.
- 5 GAS FLUE. SEE DETAIL M11-11 AND EQUIPMENT SCHEDULE.
- 6 AIR SEPARATOR. SEE DETAIL M11-06.
- 7 2" PIPING TO AHU.
- 8 2-1/2" PIPING TO AHU.
- 9 ROUTE 4" ROUND DRYER VENT UP THRU WALL TO CEILING AND OUT TO WALL CAP. REFERENCE NORTH CAROLINA MECHANICAL CODE SECTION 308.9.
- 10 ROUTE 12x12 OUTSIDE AIR DUCTWORK FROM THE ROOF VENT TO THE MIXING BOX OF AHU-14.
- 11 CONNECT ALL FOUR RETURN GRILLES INTO 30x18 RETURN DUCT.
- 12 ROUTE OIL LINES UNDERGROUND TO BOILER ROOM.
- 13 ALL PIPING IN THIS ROOM IS 6" UNLESS OTHERWISE NOTED.
- 14 ALL EXTERIOR ABOVE GROUND HYDRONIC PIPING SHALL HAVE HEAT TAPE.
- 15 COORDINATE ALL UNDERGROUND PIPING WITH SITE UTILITIES.



1 CAFETERIA MECHANICAL PLAN
1/8" = 1'-0"



2 MECHANICAL ROOM PLAN
1/4" = 1'-0"



COORDINATE LOCATION WITH SITE UTILITIES CONTRACTOR

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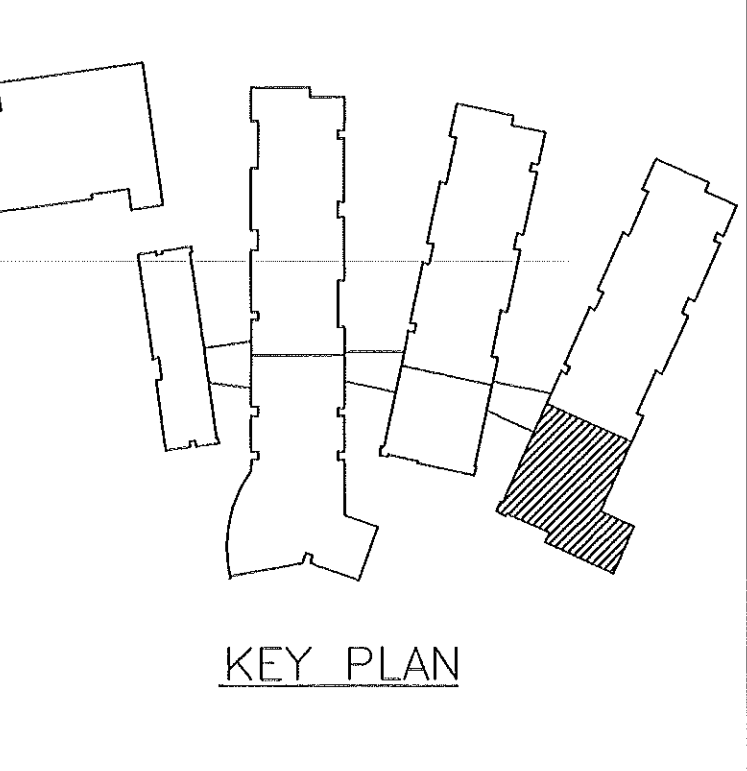


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Project Engineer: J. Tim Griffin
drawn by: J. Tim Griffin
checked by: Hank G. Hoomanl

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no.	description	date
Revisions		



New Havelock Middle School

Craven County North Carolina

project title
BOILER ROOM
CAFETERIA PLAN
MECHANICAL PLAN
sheet title
AS SHOWN
scale:

9502.00
PDC #95045
project no.
sheet no. 7 of: 12

1/15/96
date
sheet no. M-7

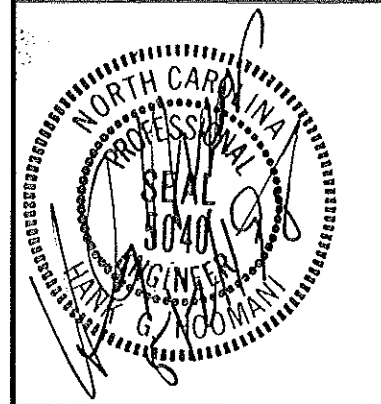
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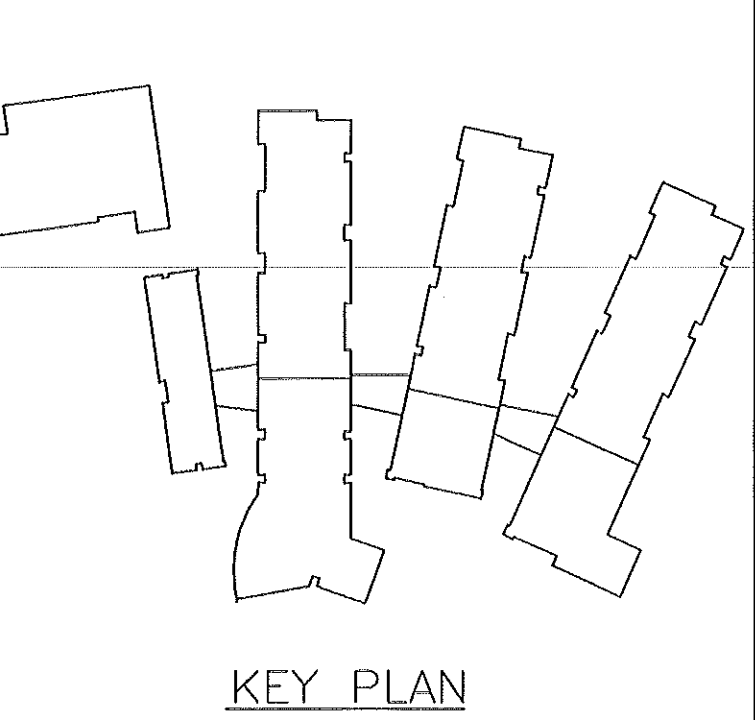


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New Havelock Middle School

Craven County
North Carolina

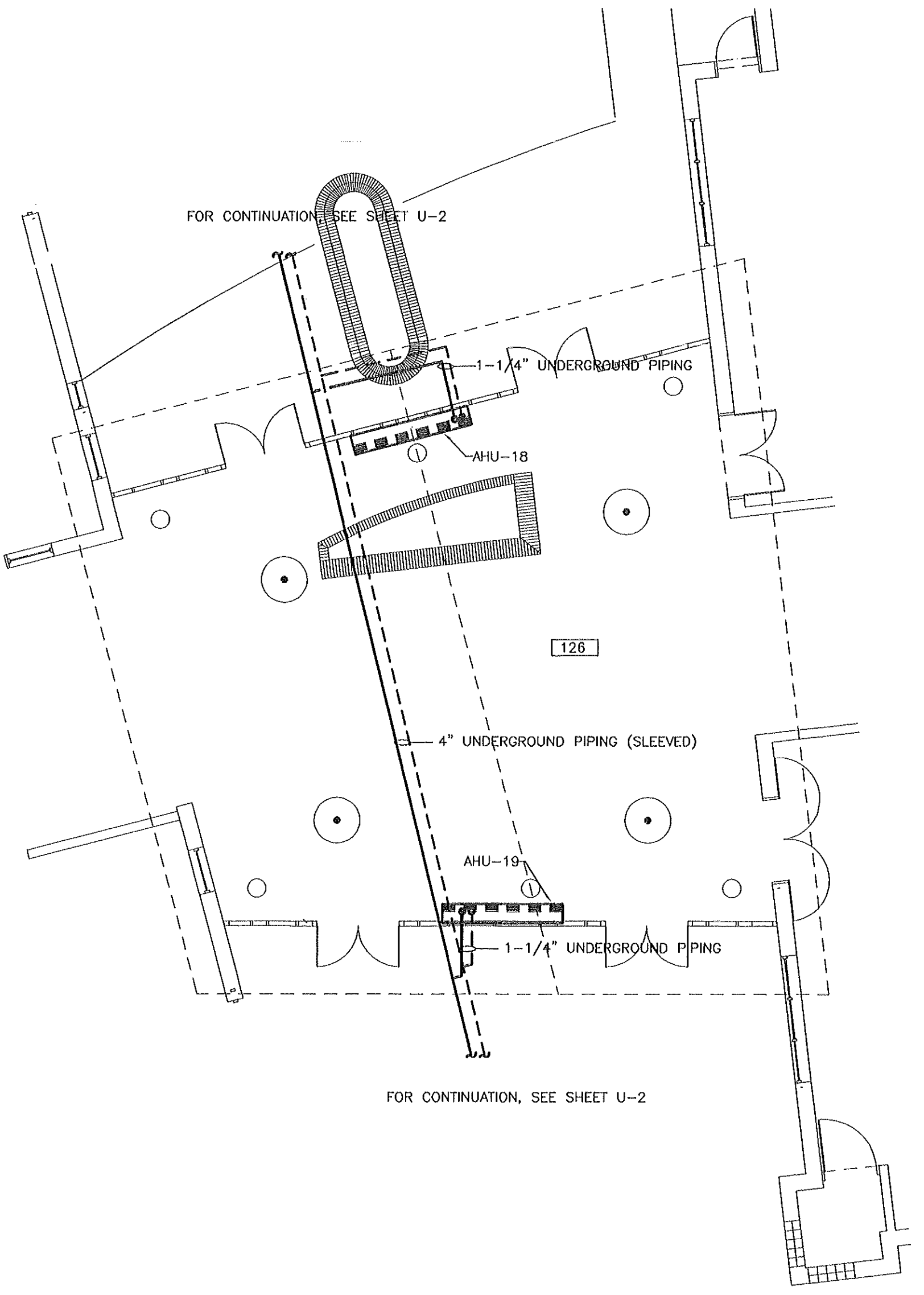
project title

COMMONS
MECHANICAL PLAN
sheet title
scale: 1/8" = 1'-0"

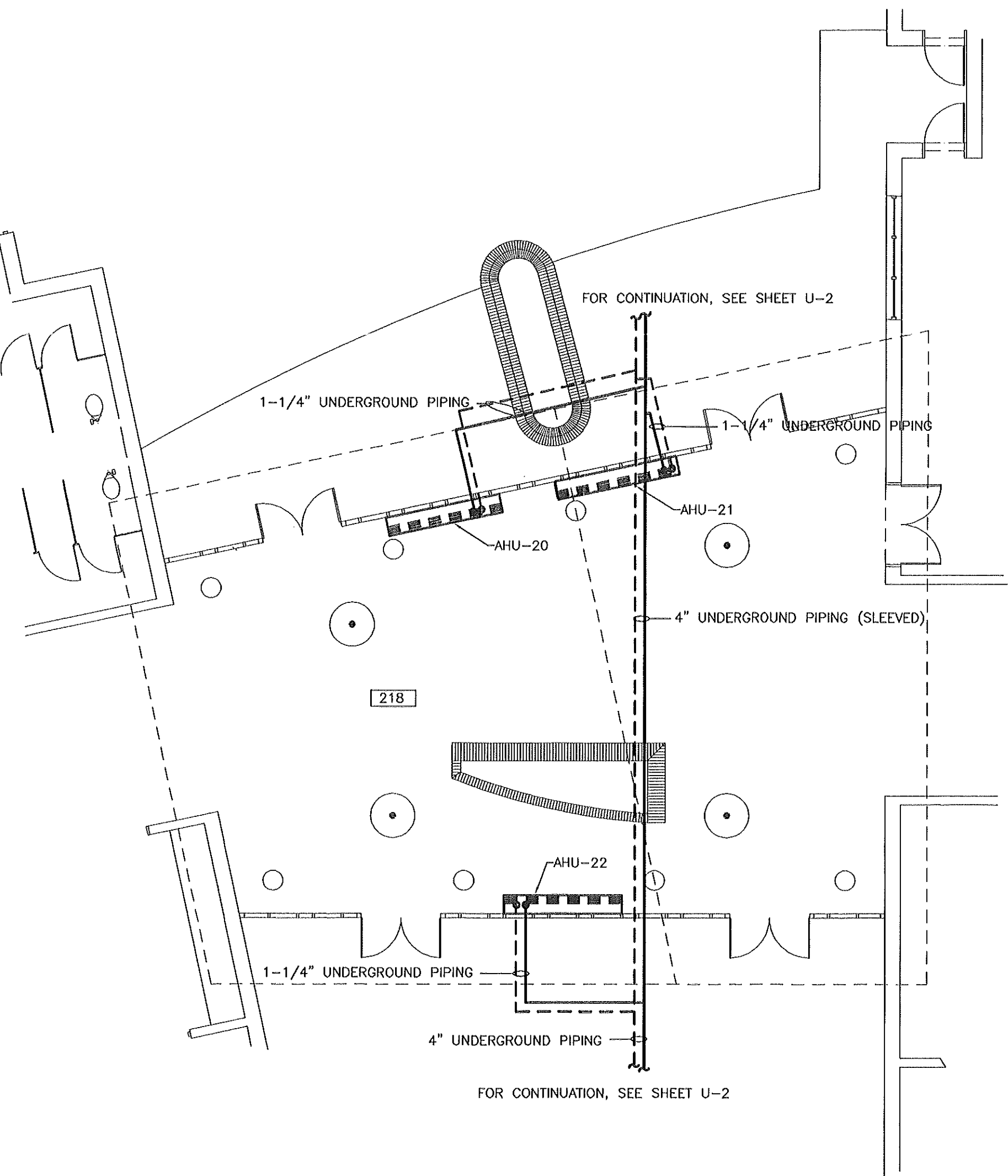
9502.00
PDC #95045
project no.
sheet no. 8 of: 12

1/15/96
date
sheet no. **M-8**

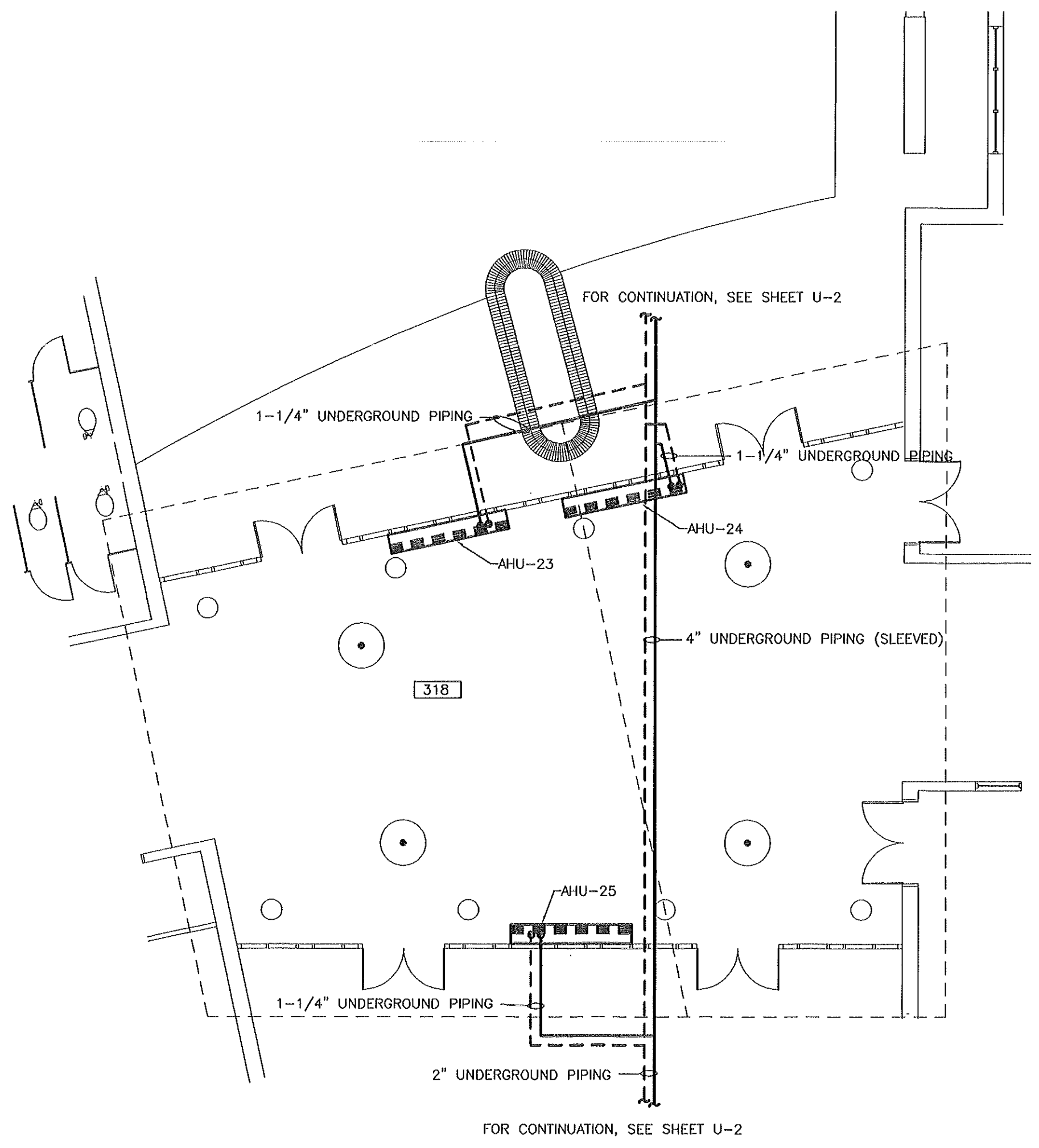
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1 MECHANICAL COMMONS PLAN 1
M-8 1/8" = 1'-0"



2 MECHANICAL COMMONS PLAN 2
M-8 1/8" = 1'-0"



3 MECHANICAL COMMONS PLAN 3
M-8 1/8" = 1'-0"

- NOTES:
- ROUTE ALL CONDENSATE LINES FROM EACH UNIT FIVE FEET UNDERGROUND OUTSIDE OF THE BUILDING. COORDINATE LOCATION WITH SITE UTILITIES CONTRACTOR. INSTALL ZURN Z-1099 BACKWATER VALVE IN EACH LINE.
 - ATTACH UNITS TO WALL.
 - ALL PIPING UNDER THE COMMONS SHALL BE CONTINUOUSLY SLEEVED. LINES SHALL BE TESTED SEPARATELY.

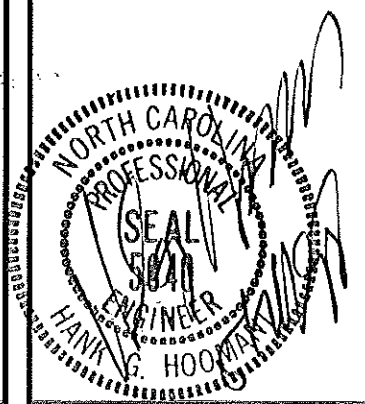
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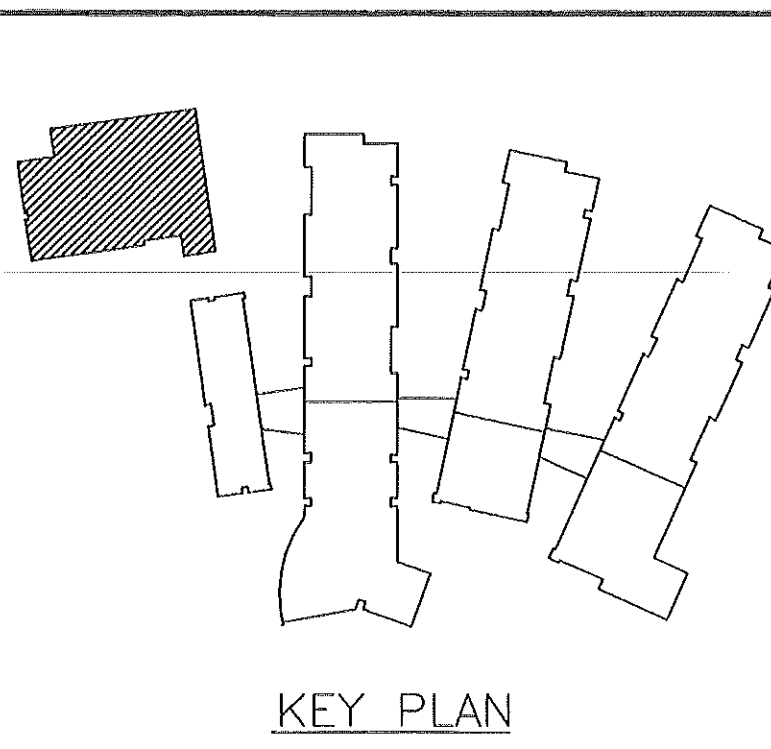


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no.	description	date
Revisions		



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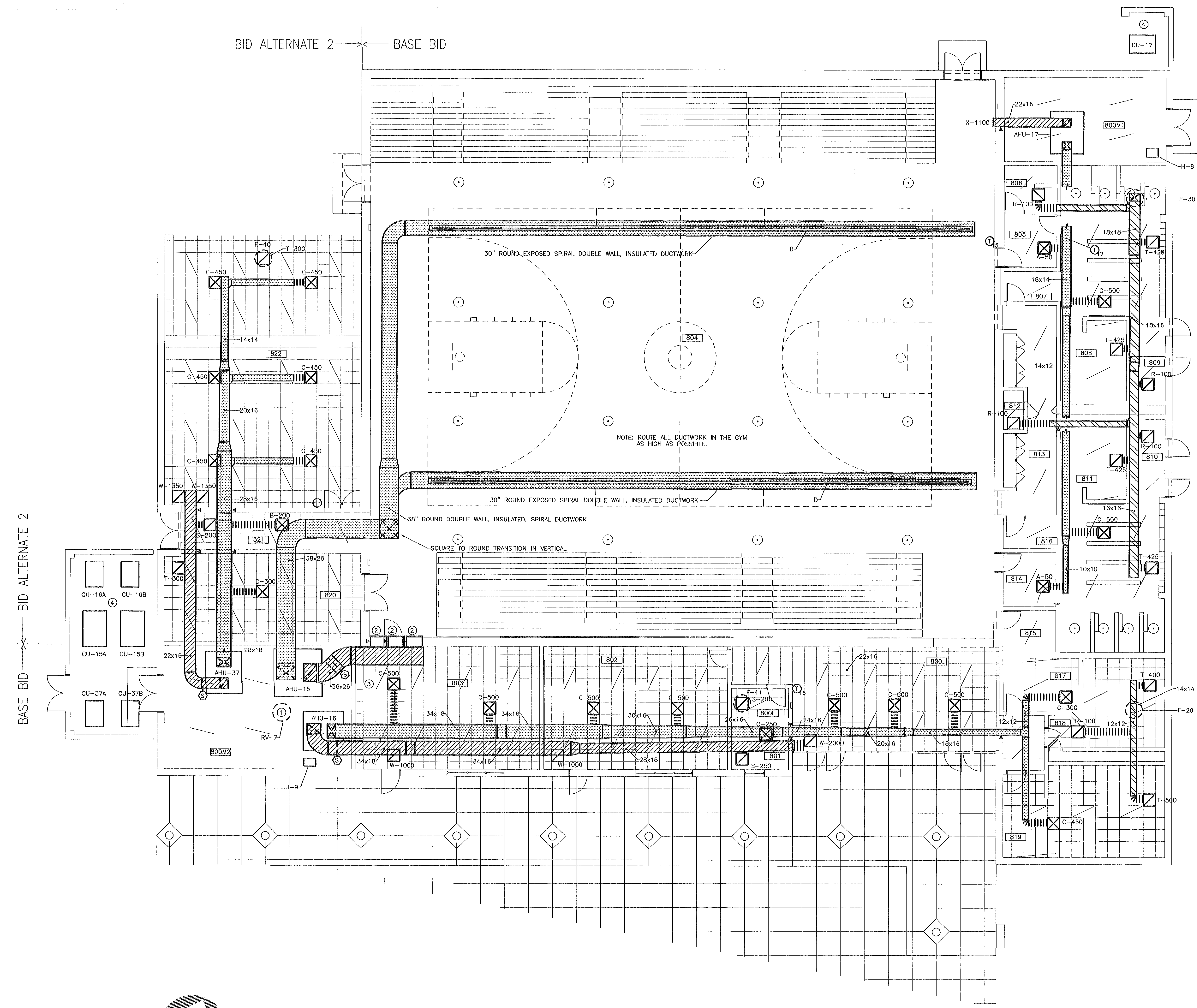
Craven County
North Carolina

project title

GYM MECHANICAL PLAN
sheet title
1/8" = 1'-0"
scale:

9502.00
PDC #95045
project no.
sheet no. 9 of: 12

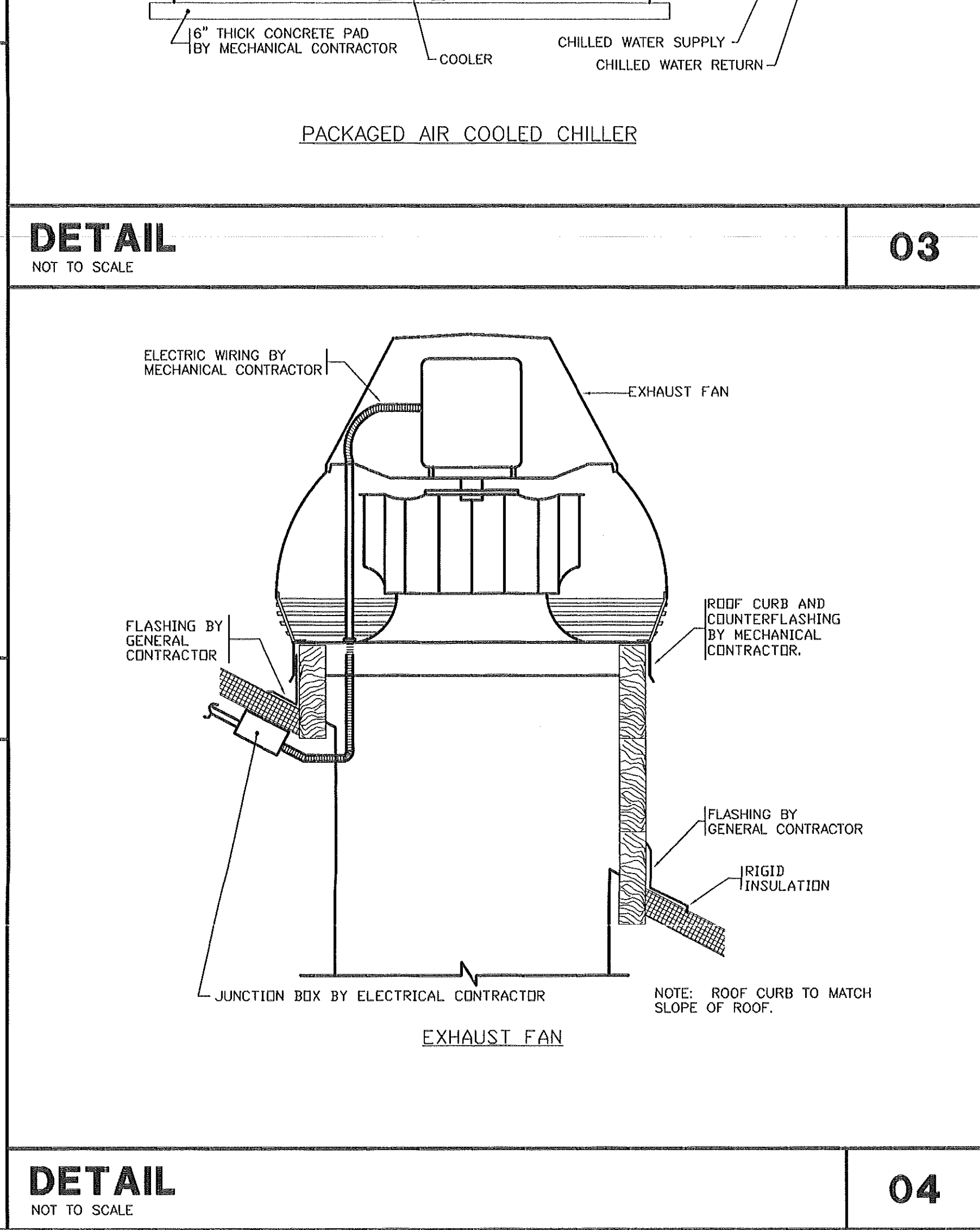
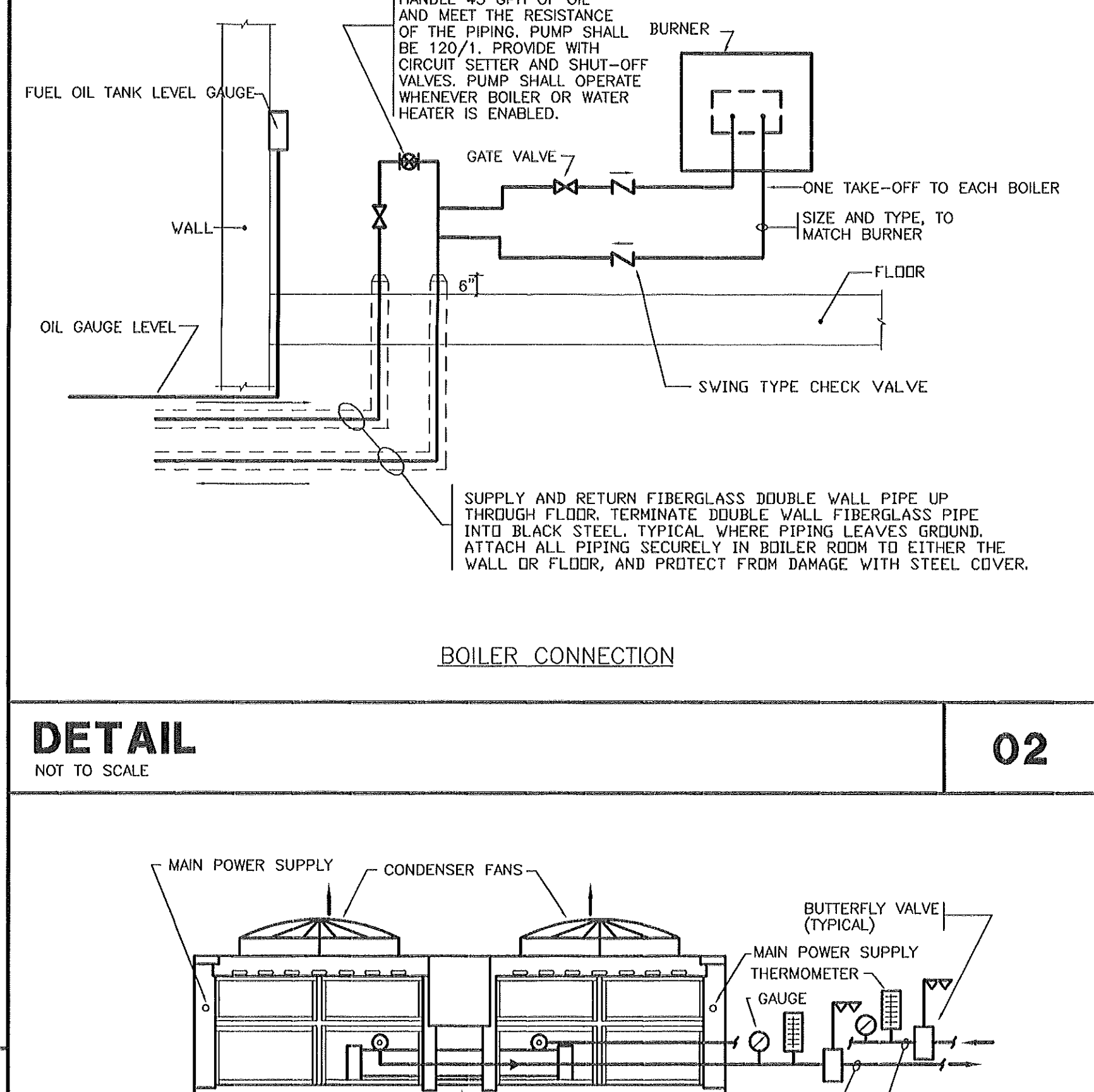
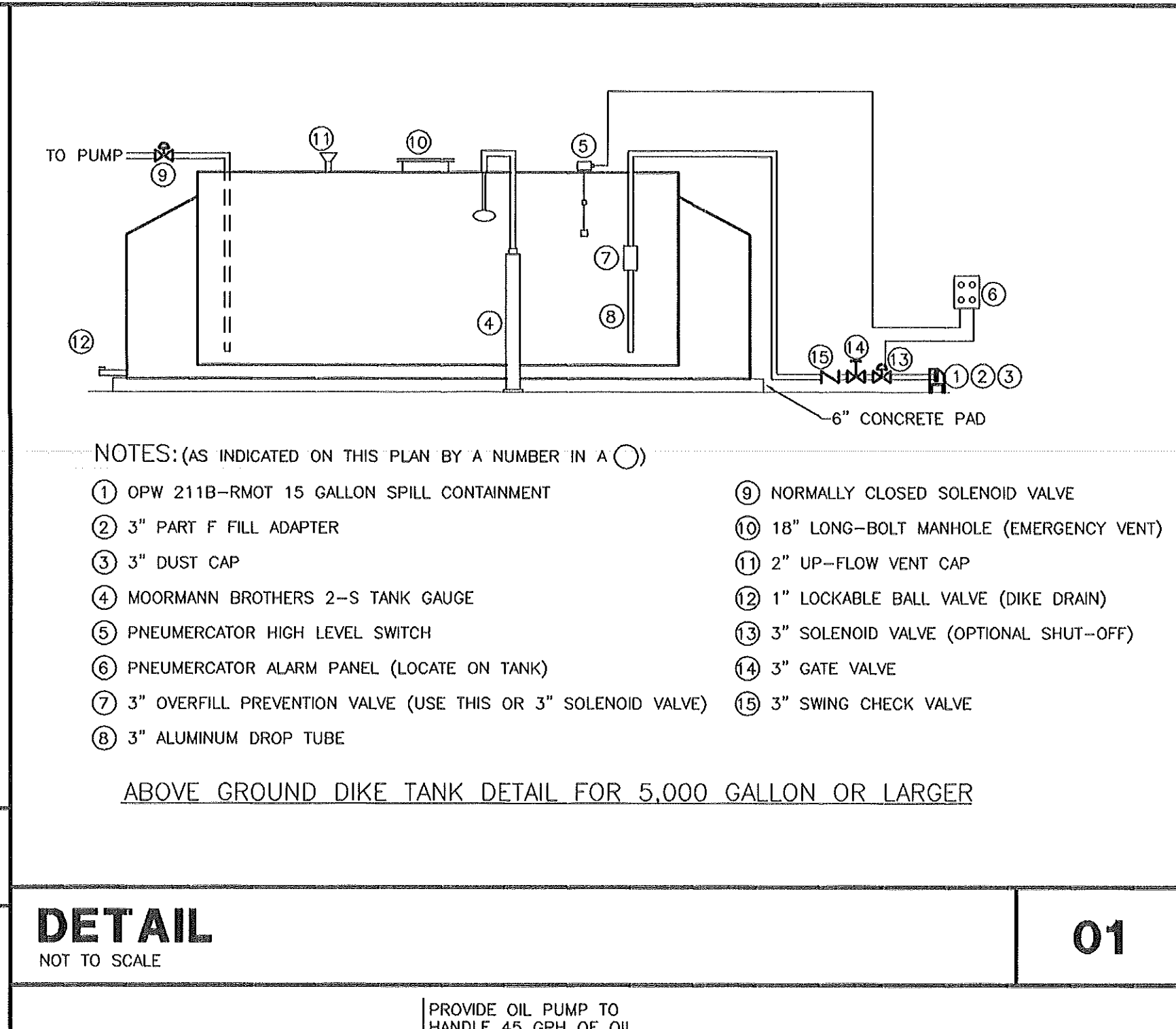
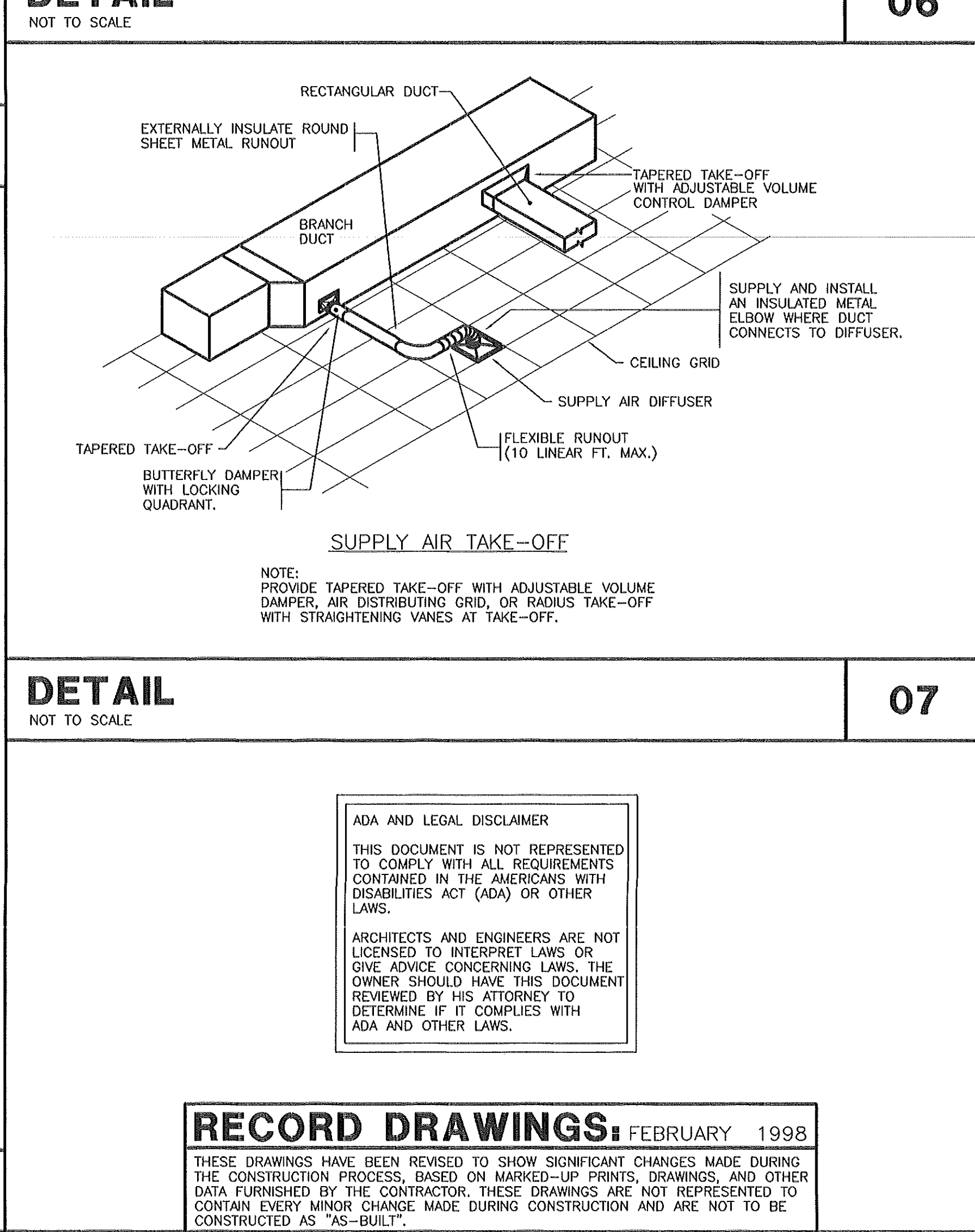
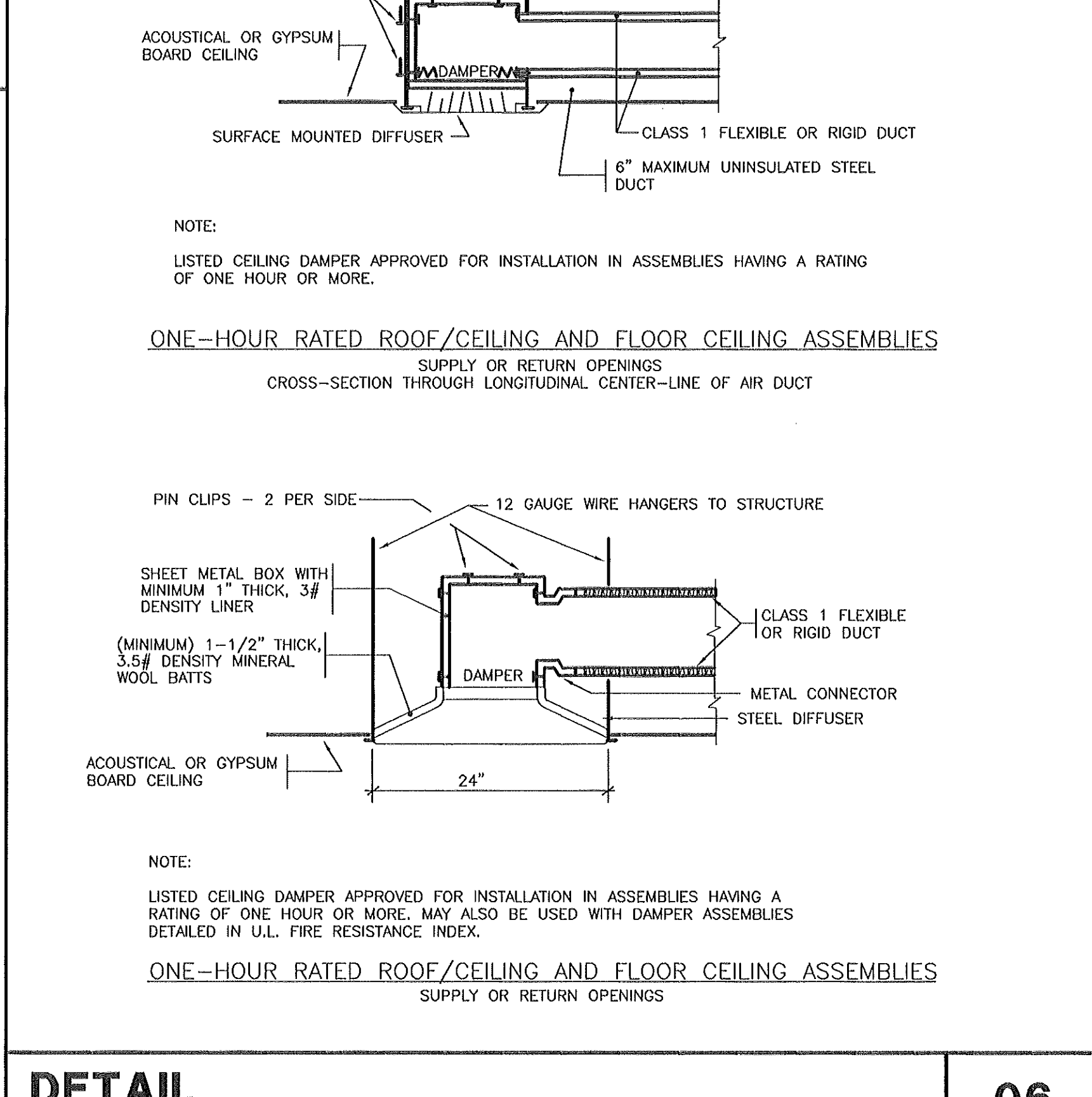
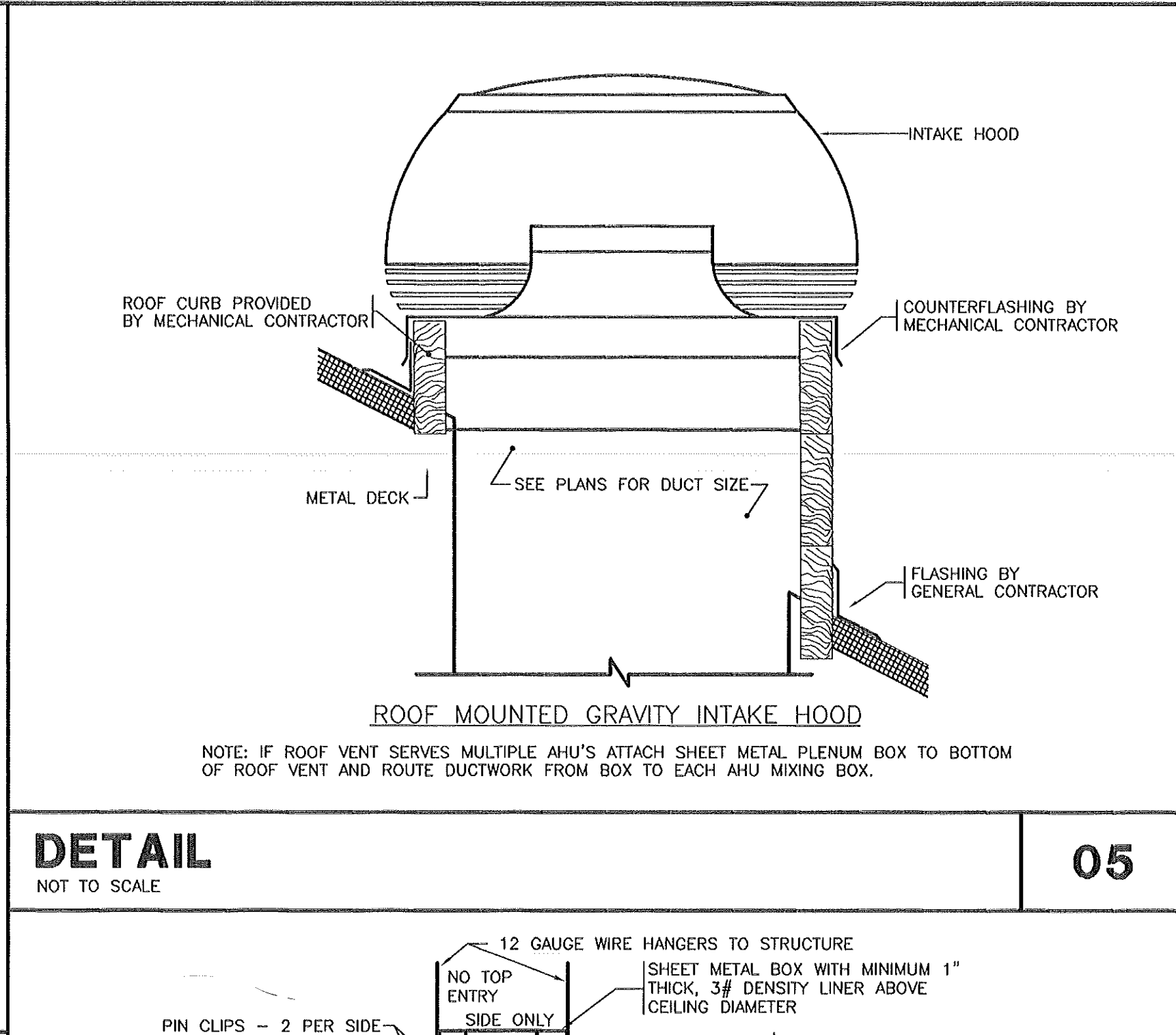
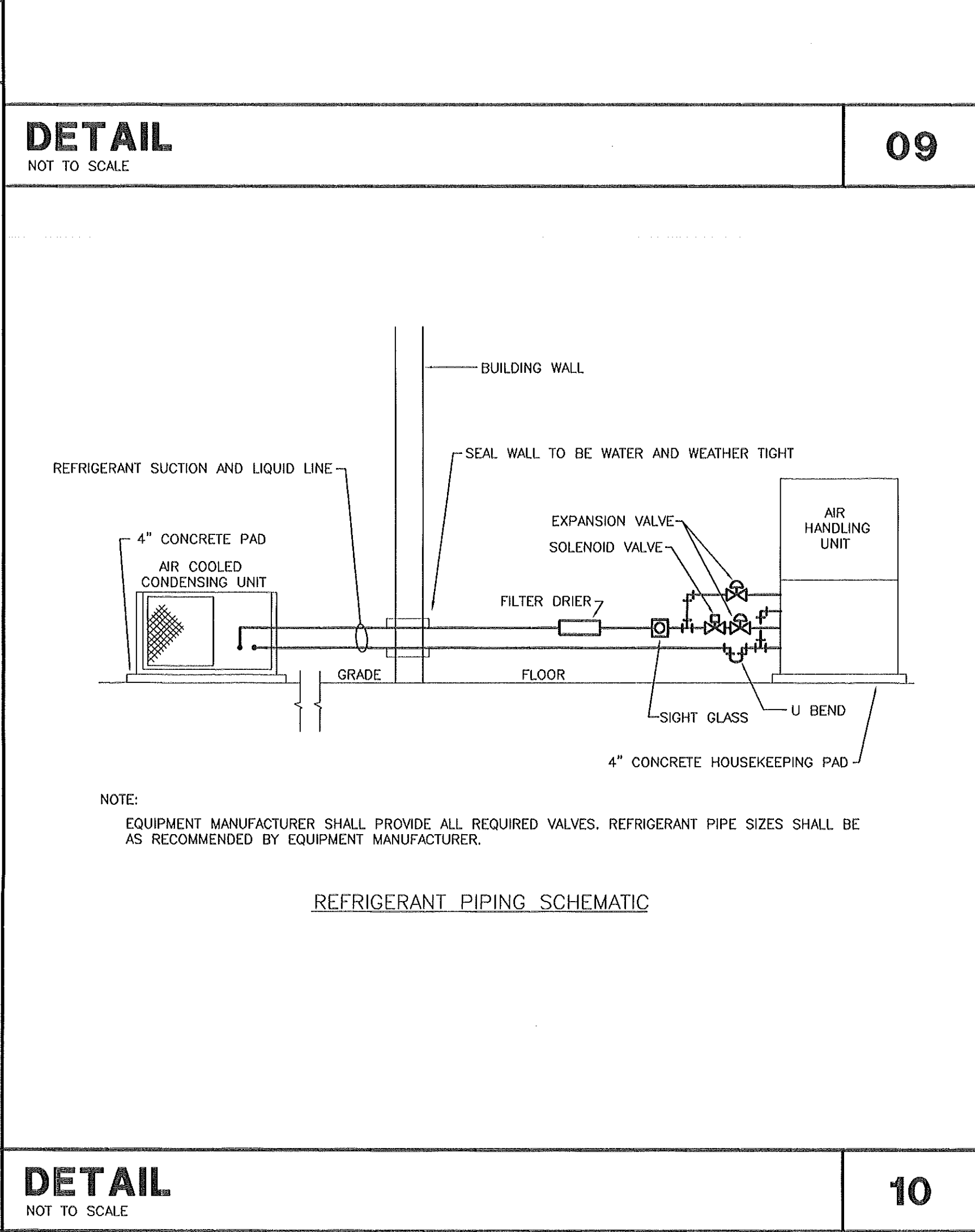
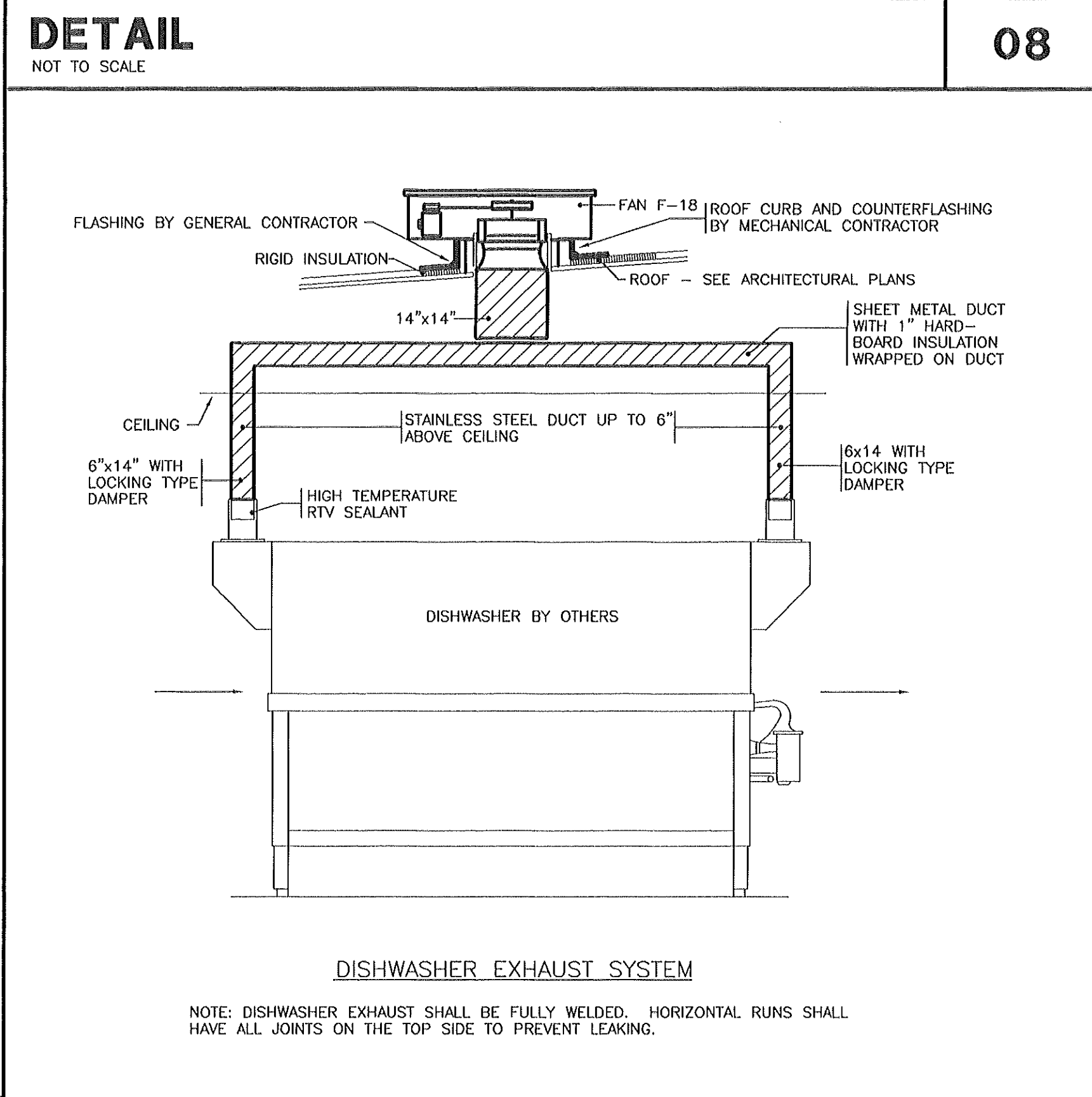
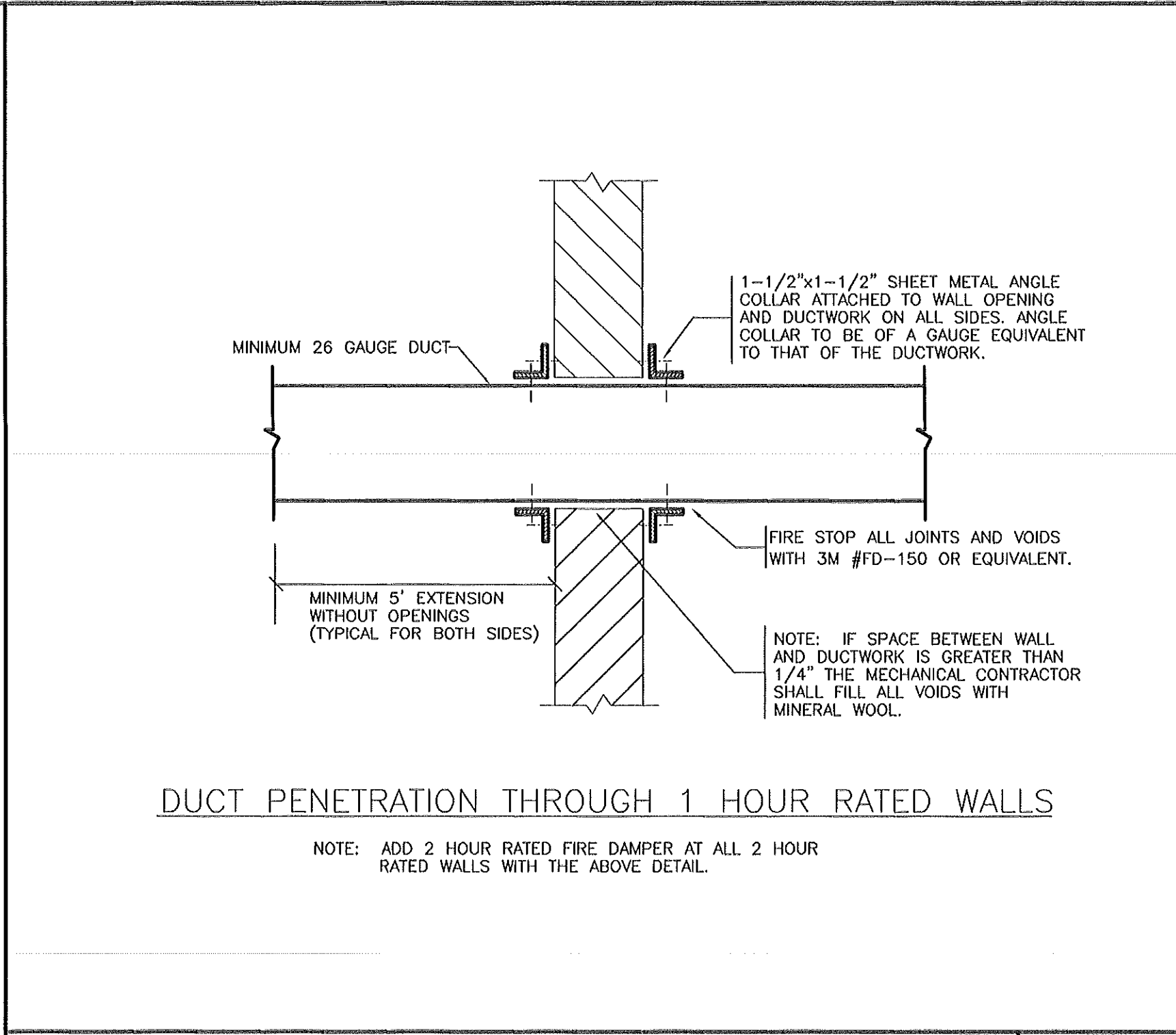
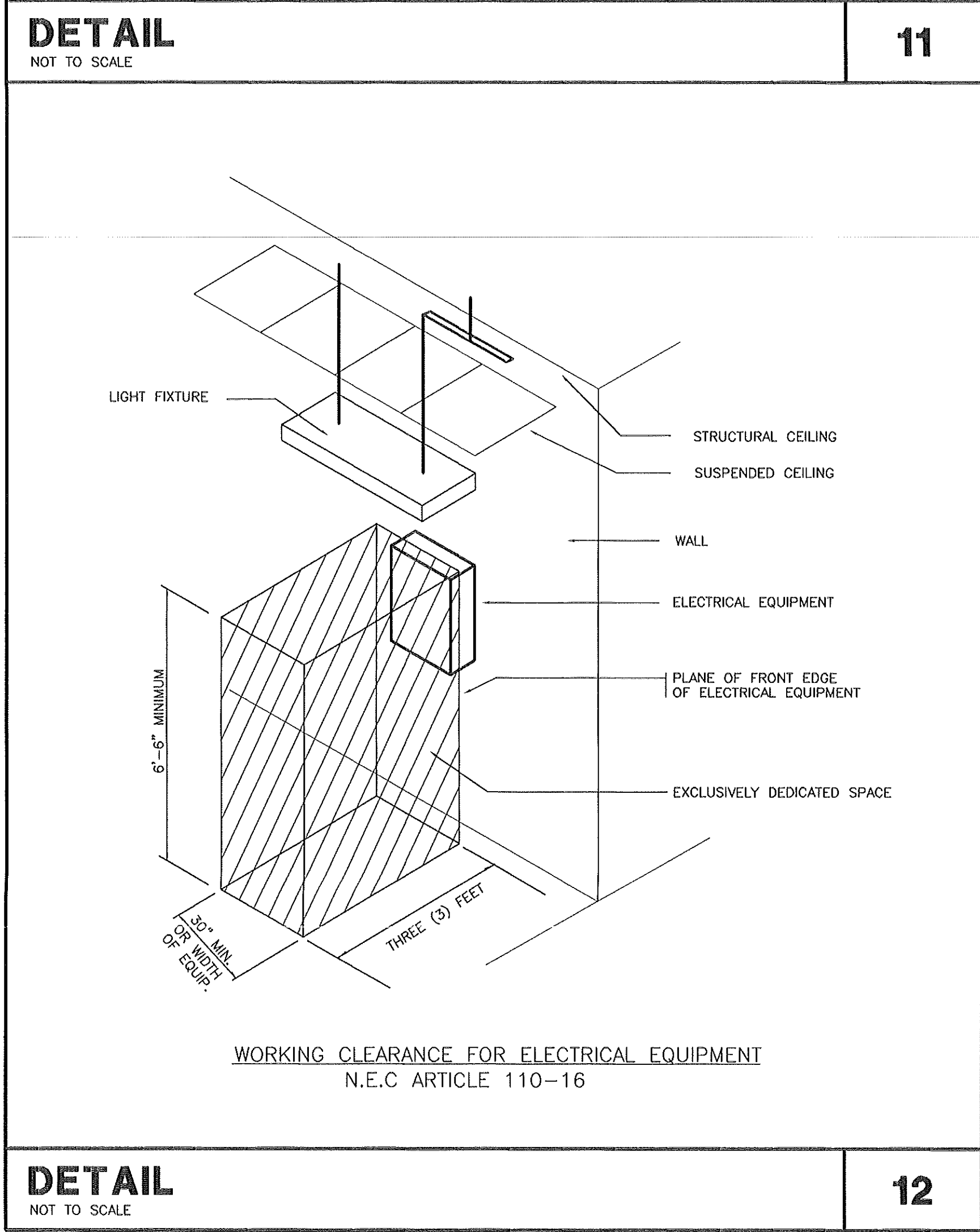
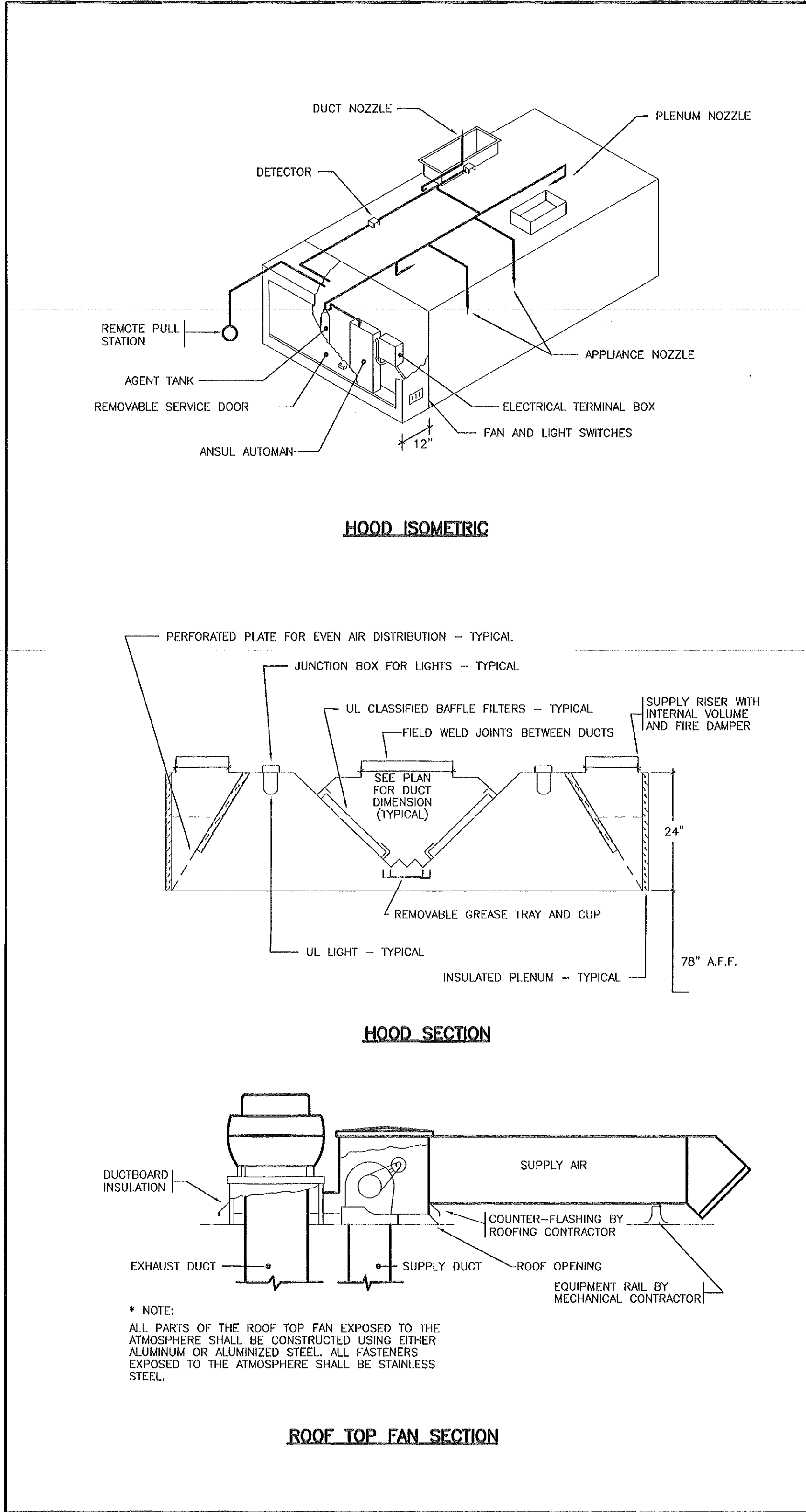
1/15/96
date
sheet no. **M-9**



- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ROUTE 10x10 OUTSIDE AIR DUCTWORK FROM THE ROOF VENT TO EACH AHU'S MIXING BOX. OUTSIDE AIR DUCTWORK TO AHU-15 SHALL BE 20x20.
 - CONNECT RETURN DUCT TO TYPE Y RETURN GRILLE ABOVE DOOR. PROVIDE FIRE RATED DAMPER IN EACH OF THE DUCTS WHERE THEY PENETRATE WALL.
 - CEILING SPACE IS LIMITED IN THIS AREA. ROUTE DUCTS BETWEEN LIGHTS.
 - FENCE WILL BE PROVIDED BY OTHERS. INSTALL UNITS WITH PROPER CLEARANCE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

1 GYM MECHANICAL PLAN
M-9 1/8" = 1'-0"

RECORD DRAWINGS, FEBRUARY 1998
THESE DRAWINGS HAVE BEEN REVISED TO SHOW SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. BASED ON MARKED-UP PRINTS, DRAWINGS, AND OTHER DATA FURNISHED BY THE CONTRACTOR, THESE DRAWINGS ARE NOT REPRESENTED TO CONTAIN EVERY MINOR CHANGE MADE DURING CONSTRUCTION AND ARE NOT TO BE CONSIDERED AS "AS-BUILT".



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pdc
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TELEPHONE 919-790-9989

Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerio**
Project Engineer: **J. Tim Griffin**
drawn by: **J. Tim Griffin**
checked by: **Hank G. Hoomanl**

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no.	description	date
Revisions		

KEY PLAN

New Havelock Middle School

Craven County
North Carolina

project title

MECHANICAL DETAIL SHEET	AS SHOWN
sheet title	scale:


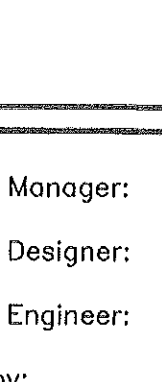
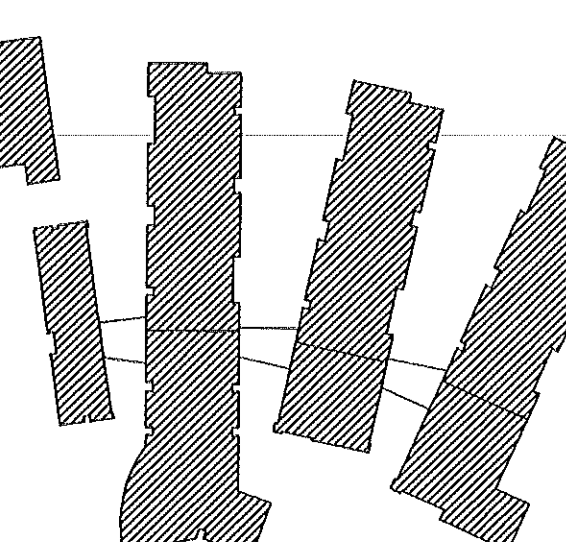
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1/15/96 date	sheet no. M-10

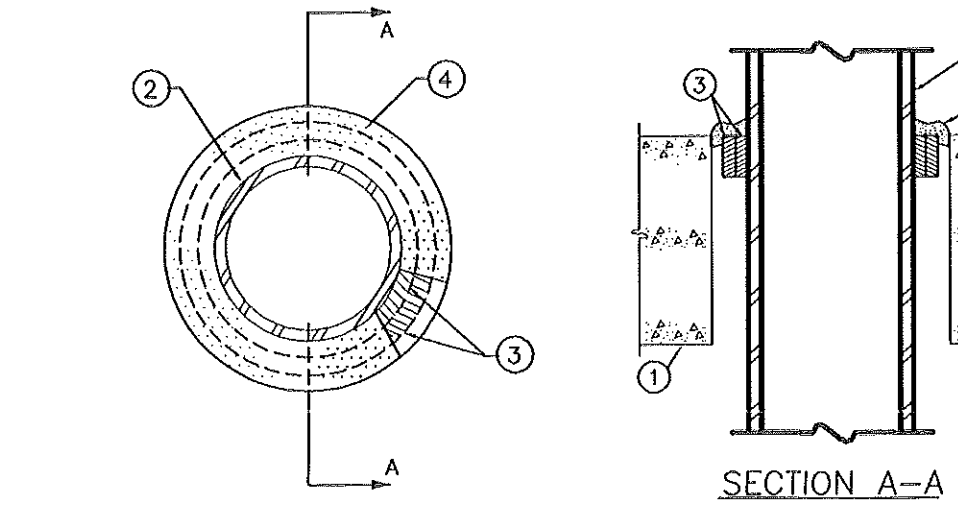
released for construction: 1/15/96



M-11

released for construction: 1/15/96

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<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> <p>CONSULTING ENGINEERS</p> <p>PROGRESSIVE DESIGN COLLABORATIVE, L.L.C.</p> <p>POST OFFICE BOX 61249 RALEIGH, N. C. 27661-1249</p> <p>TELEPHONE 919-790-9989</p> </div> </div>												
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<h2 style="margin: 0;">New Havelock Middle School</h2> <p style="margin-top: 20px;">Craven County North Carolina</p>												
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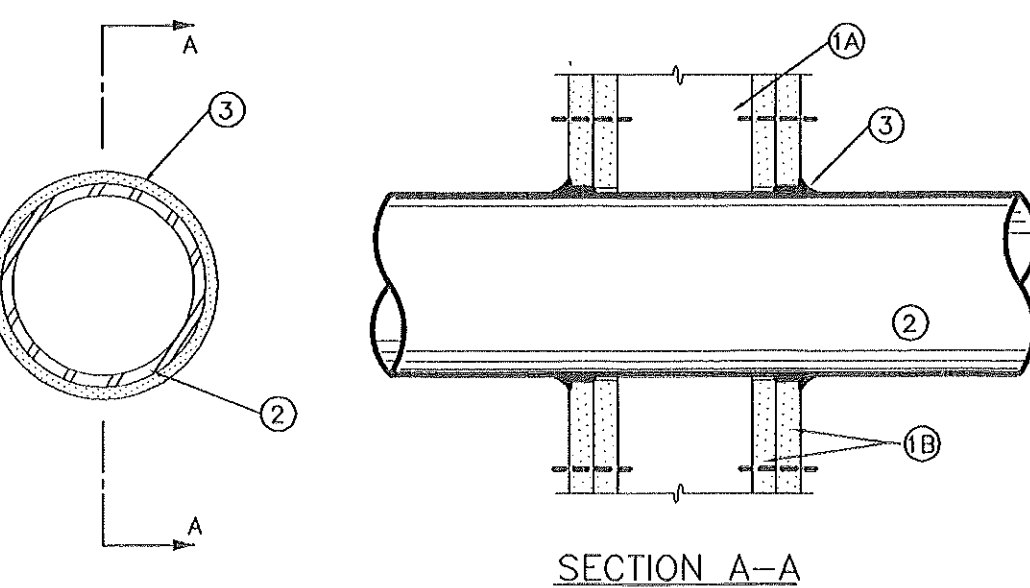
1. FLOOR OR WALL ASSEMBLY - LIGHT WEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. MINIMUM THICKNESS OF CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 INCHES FOR 2 AND 3 HOUR F RATINGS AND 5-1/2 INCHES FOR 4 HOUR F RATING. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAXIMUM DIAMETER OF CIRCULAR OPENING IS 13-1/2 INCHES.
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. CONDUIT - NOMINAL 6 INCH DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4 INCH DIAMETER (OR SMALLER) STEEL EMT. MAXIMUM ONE PIPE OR CONDUIT PER OPENING. SIDING IN OPENING. MINIMUM CLEARANCE BETWEEN PIPE OR CONDUIT AND SIDING OF THROUGH OPENING IS 1/4 INCH. MAXIMUM CLEARANCE BETWEEN PIPE OR CONDUIT AND SIDING OF THROUGH OPENING IS 1-3/4 INCHES FOR 2 HOUR F RATING AND 3/4 INCH FOR 3 AND 4 HOUR F RATINGS. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOMINAL 1/4 INCH THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL. SUPPLIED IN 2 INCH WIDE STRIPS. FOR THE 2 AND 3 HOUR F RATINGS, MINIMUM 1 INCH WIDE STRIP(S) WRAPPED AROUND PIPE/CONDUIT (FOIL SIDE EXPOSED) UNTIL OD OF WRAP STRIP IS EQUAL TO OR MAXIMUM 3/16 INCH LESS THAN ID OF CIRCULAR THROUGH OPENING. WRAP STRIP TIGHTLY BOUND WITH STEEL WIRE OR PRESSURE-SENSITIVE TAPE AND SLIDE INTO THROUGH OPENING SUCH THAT THE TOP EDGE OF THE WRAP STRIP(S) IS RECESSED 1/4 INCH FROM TOP SURFACE OF FLOOR OR, IN WALL ASSEMBLIES, SUCH THAT THE WRAP STRIP(S) IS CENTERED IN THE WALL THICKNESS. FOR THE 4 HOUR F RATING, NOMINAL 2 INCH WIDE STRIP(S) WRAPPED AROUND PIPE/CONDUIT (FOIL SIDE EXPOSED) ON EACH SIDE OF THE FLOOR OR WALL ASSEMBLY UNTIL OD OF WRAP STRIP IS EQUAL TO MAXIMUM 3/16 INCH LESS THAN ID OF CIRCULAR THROUGH OPENING. WRAP STRIP TIGHTLY BOUND WITH STEEL WIRE OR PRESSURE-SENSITIVE TAPE AND SLIDE INTO THROUGH OPENING ON EACH SIDE OF FLOOR OR WALL ASSEMBLY SUCH THAT THE EXPOSED EDGES ARE RECESSED 1/4 INCH FROM THE FLOOR OR WALL SURFACES.
4. FILL, VOID OR CAVITY MATERIALS* - CAULK - NOMINAL 1/4 INCH THICKNESS OF CAULK TO BE USED TO FILL THE WRAP STRIP AND TO FILL ALL VOIDS BETWEEN THE PIPE/CONDUIT AND THE PERIPHERY OF THE THROUGH OPENING. FOR 2 AND 3 HOUR F RATING IN FLOOR ASSEMBLIES, CAULK TO BE INSTALLED FLUSH WITH TOP SURFACE OF FLOOR. FOR WALL ASSEMBLIES AND FOR THE 4 HOUR F RATING IN FLOOR ASSEMBLIES, CAULK TO BE APPLIED ON BOTH SIDES OF ASSEMBLY.

MINNESOTA MINING & MANUFACTURING COMPANY
TYPES FS-195

MINNESOTA MINING & MANUFACTURING COMPANY
TYPES CP-25 S/L, CP-25 N/S, CP-25 WB

*BEARING THE UL CLASSIFICATION MARKING

UL SYSTEM CAJ1007
(FORMERLY SYSTEM NO. 95)
F RATINGS - 2, 3 AND 4 HOUR



NOTES:

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN. FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2 HOUR FIRE-RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2 BY 4 INCH LUMBER SPACED 16 INCHES ON CENTER WITH NOMINAL 2 BY 4 INCH LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-5/8 INCHES BY 1-3/8 INCHES DEEP. CHANNELS SPACED MAXIMUM 24 INCHES ON CENTER.
B. WALLBOARD, GYPSUM* - NOMINAL 1/2 OR 5/8 INCH THICK, 4 FEET WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 13-1/2 INCHES.
2. PIPE OR CONDUIT - NOMINAL 12 INCH DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOMINAL 8 INCH DIAMETER (OR SMALLER) RIGID STEEL CONDUIT, NOMINAL 4 INCH DIAMETER (OR SMALLER) STEEL EMT, NOMINAL 4 INCH DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE OR NOMINAL 1 INCH DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAXIMUM F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HOUR. STEEL PIPES OR CONDUITS LARGER THAN NOMINAL 4 INCH DIAMETER MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAXIMUM OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL-CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MINIMUM 1/4 INCH DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EXTERIOR FROM FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAXIMUM PIPE OR CONDUIT DIAMETER, INCH

ANNULAR SPACE, INCH	F RATING, HOUR	T RATING, HOUR
1 0 to 3/16	1 OR 2	0+; 1 OR 2
1 1/4 to 1/2	3 OR 4	3 OR 4
2 0 to 1/4	1 OR 2	0
4 1/4 to 1/2	3 OR 4	0
12 3/16 to 3/8	1 OR 2	0

*WHEN COPPER PIPE IS USED, T RATING IS 0 H.
MINNESOTA MINING & MANUFACTURING COMPANY
TYPES CP-25 S/L, CP-25 A/S, CP-25 WB, CP-25 WB*

PENETRATIONS BY PIPES, CONDUIT, AND DUCTS SHALL BE PROTECTED BY A SYSTEM WHICH HAS A F RATING AT LEAST EQUAL TO THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED.

*BEARING THE UL CLASSIFICATION MARKING

UL SYSTEM WL1001
(FORMERLY NO. 147-A)
F RATING - 1, 2, 3 & 4 HOUR

ADA AND LEGAL DISCLAIMER

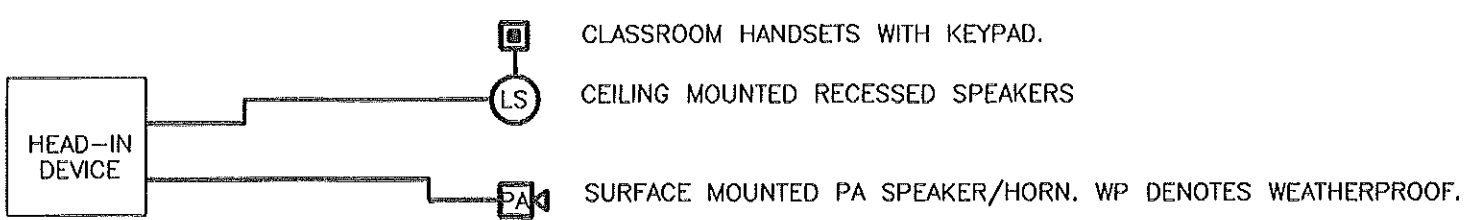
THIS DOCUMENT IS NOT REPRESENTED TO COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) OR OTHER LAWS.

ARCHITECTS AND ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE IF IT COMPLIES WITH ADA AND OTHER LAWS.

GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. COORDINATE ALL WORK WITH THE CASEWORK DETAILS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.
4. IN ALL AREAS WHERE FIRE RATED WALLS, FLOORS, AND CEILINGS ARE INSTALLED, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION. SEE FIRE-STOP SYSTEM DETAILS.
5. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.
6. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL, AND NATIONAL CODES AND ORDINANCES.
7. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
8. THE NEW FIRE ALARM EQUIPMENT SHOWN SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND SHALL MATCH THE EXISTING COMPONENTS.
9. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. SUPPORT DEVICES SHOULD BE INSTALLED PRIOR TO INSTALLATION OF THE SUB-CEILING.
10. ALL CONDUIT (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH PAINT OR 1/2" WIDE TAPE, 10' ON CENTER, IN ACCORDANCE WITH THE FOLLOWING:

277/480 VOLT	WHITE
120/208 VOLT <td>YELLOW</td>	YELLOW
FIRE ALARM <td>RED</td>	RED
TELEPHONE <td>BLACK</td>	BLACK
COMMUNICATION/SOUND <td>ORANGE</td>	ORANGE
11. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
12. ALL WIRE AND CONDUIT SIZES ARE BASED ON 60C WIRE UNLESS OTHERWISE NOTED.
13. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL ALSO INCLUDE ALL NECESSARY CIRCUITS TO THE LIGHT FIXTURES AND TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, INCLUDING OWNER SUPPLIED EQUIPMENT, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSERLY.
15. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE OWNER/ARCHITECT PRIOR TO INSTALLATION.
16. WHERE MULTIPLE SWITCHES ARE SHOWN IN THE SAME LOCATION (EXCEPT CLASSROOM) THEY SHALL BE GANGED TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER. THE ELECTRICAL CONTRACTOR SHALL LOOK AT BOTH POWER AND LIGHTING PLAN TO DETERMINE WHICH SWITCH IS APPLICABLE. GANGING OF SWITCHES MUST COMPLY WITH NEC 300-8 (6).
17. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
18. EMERGENCY LIGHTS SHOULD NOT BE SWITCHED. CONNECT TO HOT LEG. PROVIDE HOMERUNS FOR CIRCUITS INDICATED.
19. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENINGS AND PENETRATIONS RESULTING FROM NEW WORK IN THE EXISTING BUILDINGS.
20. ALL ROOF PENETRATIONS SHALL BE PROPERLY SEALED BY THE ELECTRICAL CONTRACTOR.
21. ALL EXPOSED RACEWAY OR CONDUIT IN AREAS WITH LAY-IN CEILINGS SHALL BE WIREMOLD 3000 OR EQUIVALENT, EXCEPT FOR MECHANICAL ROOMS, ELECTRICAL CLOSETS, JANITOR CLOSETS, AND STORAGE ROOMS. PAINT TO MATCH SURFACE OF ROOMS.
22. IN AREAS WITH LAY-IN CEILINGS, ALL HORIZONTAL RUNS OF EXPOSED RACEWAY OR CONDUIT BELOW 72" AFF SHALL BE WIREMOLD 3000 OR EQUIVALENT. PAINT TO MATCH SURFACE.
23. ONE SET OF THE ELECTRICAL RISER DIAGRAM SHALL BE MOUNTED NEAR THE MAIN SWITCHGEAR UNDER CLEAR PROTECTIVE MATERIAL.
24. ONE COPY OF THE FIRE ALARM ZONE LAYOUT CHART SHALL BE MOUNTED UNDER GLASS (OR PLEXIGLASS) BESIDE THE FIRE ALARM PANEL.
25. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION. SUPPORT DEVICES NEED TO BE INSTALLED BEFORE SHEETROCK SUB CEILING IS INSTALLED.
26. THE ELECTRICAL CONTRACTOR SHALL SUPPLY CORDS AND PLUGS FOR ALL EQUIPMENT PROVIDED AS DIRECT WIRED, BUT WHERE SHOWN CONNECTED TO A RECEPTACLE ON THE PLANS.
27. NOTE: ALL RECEPTACLES LOCATED IN THE SCIENCE LABS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALSO, ANY RECEPTACLE MOUNTED IN CASEWORK WITHIN 6 FEET OF A SOURCE OF WATER (ie Lab STATIONS, DEMO DESKS, ETC) SHALL BE GFI RATED.
28. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120 VOLT JUNCTION BOXES FOR ALL MAGNETIC HOLD OPENS, AND ALL NECESSARY RELAYS AND CONNECTIONS TO THE FIRE ALARM PANEL SO THAT THE DOOR CLOSERS UPON ALARM. MOUNT JUNCTION BOX AT +6" AFF. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL HOLD OPENS, AND THE WIRE CAN BE RUN OUTSIDE OF CONDUIT. BUNDLE THE WIRES AND SUPPORT, OR UTILIZE THE CABLE TRAY SYSTEM WIRE AVAILABLE.

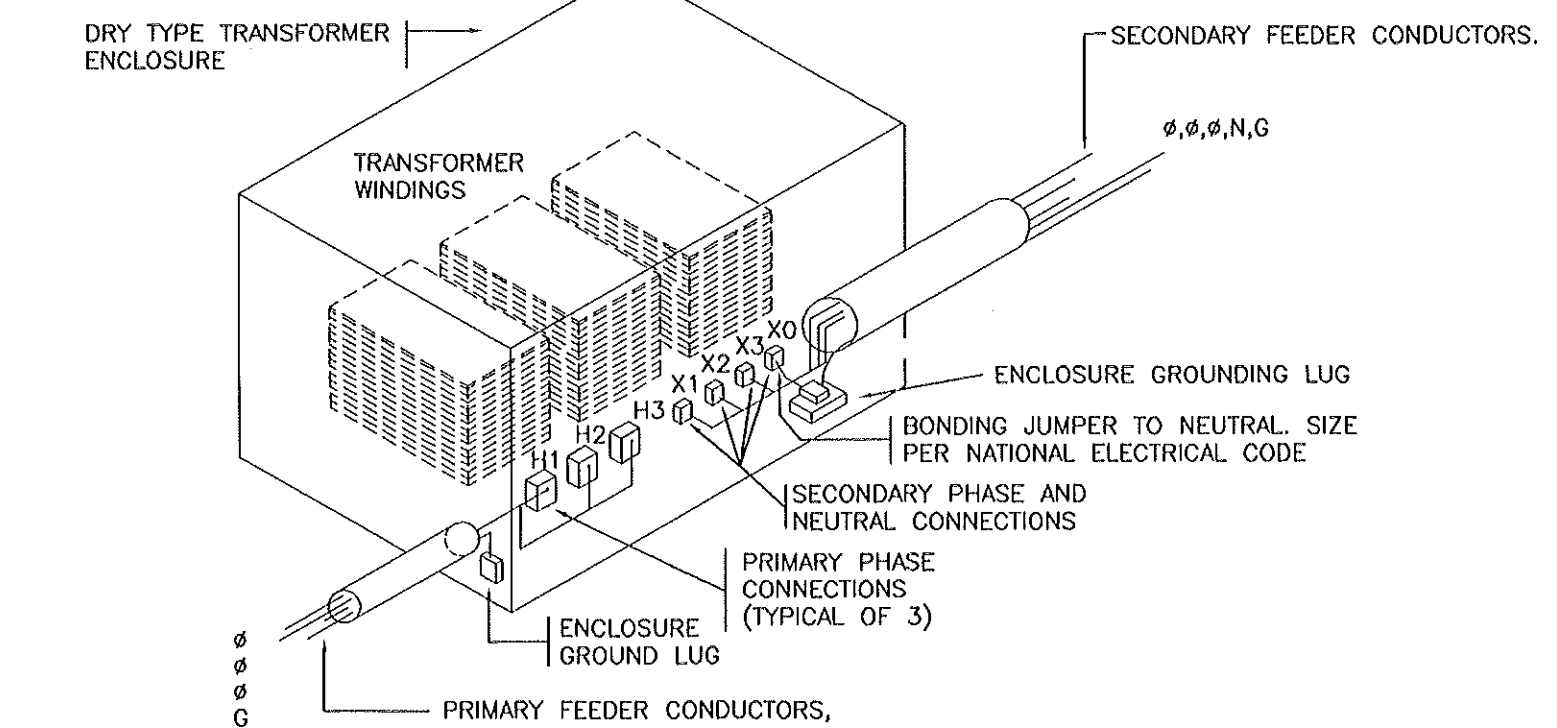


NOTES:

1. HEAD-IN DEVICE SHALL BE A DUKANE MCS350T WITH TELEPHONE INTEGRATION. THE SYSTEM SHALL INCLUDE: AM/FM TUNER(RTC350P); ROUND RECESSED SPEAKERS(GA342B); HANDSET CALL-IN PHONES WITH KEYPAD FOR CLASSROOMS (OR SMALLER CLASSROOMS).
2. ALL EQUIPMENT SHALL BE RACK MOUNTED.
3. PROVIDE FOUR IT3811 ADMINISTRATIVE TELEPHONES AND 4 ACTIVE TELEPHONE OUTLETS WITH THIS CONTRACT. COORDINATE LOCATIONS WITH THE OWNER.
4. SYSTEM SHALL INCLUDE A TONE GENERATOR FOR CLASS CHANGE.
5. SYSTEM SHOULD HAVE A MAXIMUM OF 136 TELEPHONE AND/OR CLASSROOM HANDSETS. PROVIDE ALL NECESSARY CORDS AND EQUIPMENT FOR THIS AMOUNT UNDER THIS CONTRACT.
6. A COMPLETE CONDUIT SYSTEM FOR THE P.A. SYSTEM IS NOT REQUIRED. PLENUM RATED WIRE SHOULD BE USED AND THE WIRE CAN BE RUN OUTSIDE OF CONDUIT. BUNDLE THE WIRES AND SUPPORT, OR UTILIZE THE CABLE TRAY SYSTEM WIRE AVAILABLE.

P.A. RISER

NOT TO SCALE



DRY TYPE TRANSFORMER GROUNDING DETAIL

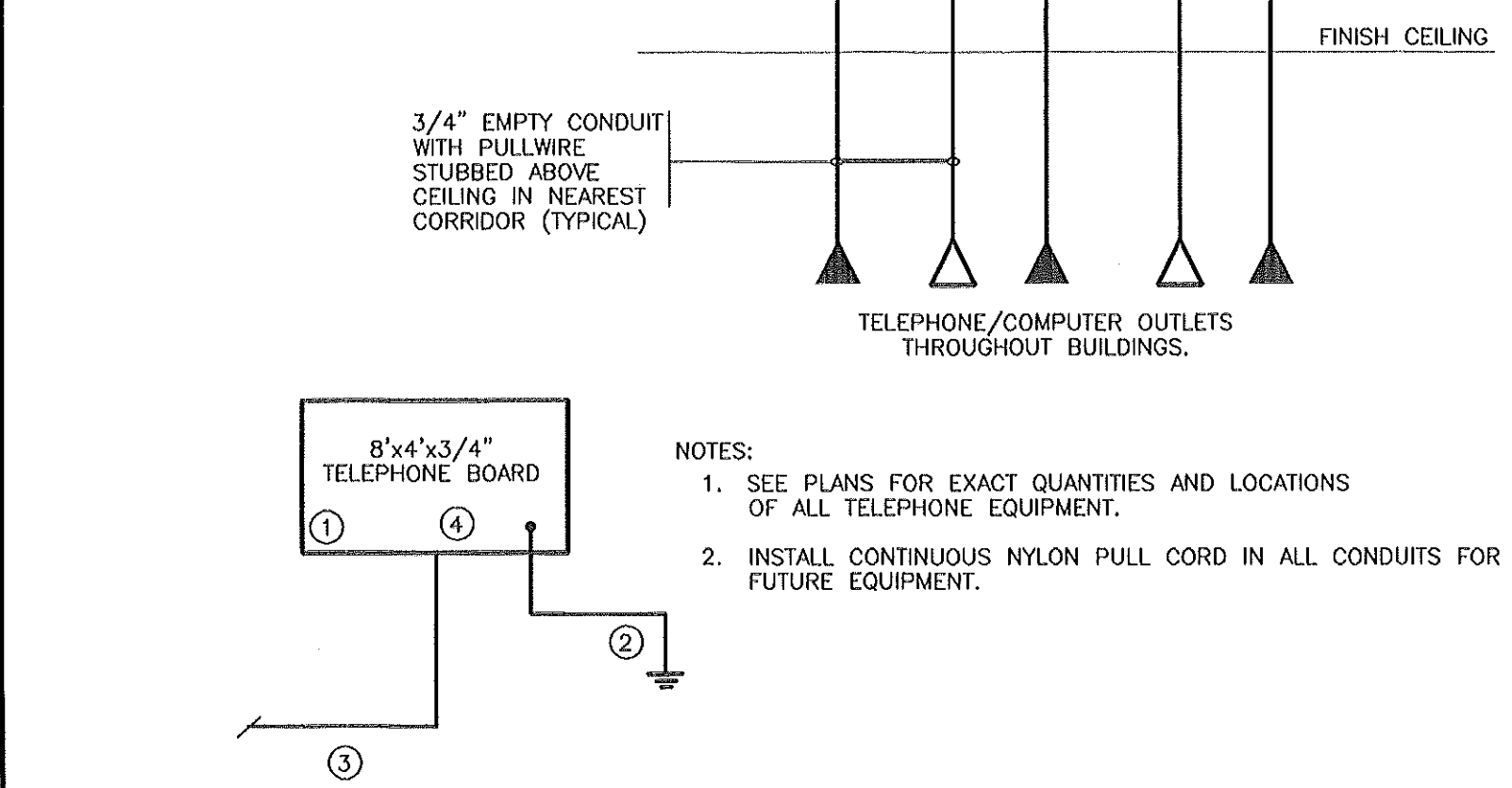
DETAIL

NOT TO SCALE

FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & CATALOG #	LAMPS	REMARKS
A	FOUR LAMP FLUORESCENT TROFFER	DAY-BRITE 20G432FS12-277	4-32W T8	277 VOLT
AE	SAME AS ABOVE WITH BATTERY POWERED BACKUP		4-32W T8	277 VOLT
A2	2'-4" 4 LAMP TROFFER - FLANGE MOUNT	DAY-BRITE 20F432FS12-277	4-32W T8	277 VOLT
B	TWO LAMP FLUORESCENT TROFFER	DAY-BRITE 20G232FS12-277	2-32W T8	277 VOLT
BE	SAME AS ABOVE WITH BATTERY POWERED BACKUP		2-32W T8	277 VOLT
B2	2'-4" TWO LAMP FLUORESCENT TROFFER - FLANGE MOUNT	DAY-BRITE 20F232FS12-277	2-32W T8	277 VOLT
B2E	SAME AS ABOVE WITH BATTERY POWERED BACKUP.		2-32W T8	277 VOLT
C	TWO LAMP CHAIN HUNG INDUSTRIAL FLUORESCENT WITH WIRE GUARDS	DAY-BRITE 1F232 PP 277 WITH WIREGUARD	2-32W T8	277 VOLT
D	2'-2" FLUORESCENT TROFFER	DAY-BRITE 20G231U6FS12-277	2-31WT8 6"	277 VOLT
DE	SAME AS ABOVE WITH BATTERY POWERED BACKUP		2-31WT8 6"	277 VOLT
D2	2'-2" FLUORESCENT TROFFER FLANGE MOUNT	DAY-BRITE 20F231U6FS12-277	2-32W T8	277 VOLT
E	WALL MOUNTED MIRROR FIXTURE	DAY-BRITE CD232 B 277 LENGTH AS SHOWN ON PLANS	2-32W T8	277 VOLT
F	INDIRECT PENDANT HUNG FLUORESCENT	PEERLESS LD3-030460	3-32W T8	277 VOLT
G	RECESSED COMPACT FLUORESCENT	KIRLUN 96928-10-58-45-46	2026	277 VOLT
H	RECESSED HID SOFFIT FIXTURE	KIRLUN RR50703-45-58	100W MH	277 VOLT
J	WALL MOUNTED AREA LIGHT	STONCO LPMR175MAL-PR	175W MH	277 VOLT
K	TRACK FIXTURES WITH 1 CIRCUIT TRACK WITH:	LIGHTOLIER ADVENT 1 CIRCUIT TRACK WITH: LIGHTOLIER 6284 LIGHTOLIER 6284	150W PAR38 250W PAR38	120 VOLT
L	INCANDESCENT WALL MOUNTED FIXTURE	STONCO VWXL110C	100W A19	120 VOLT
M	2'-4" FOUR LAMP PARABOLIC	DAY-BRITE 20G5432-105-FL-277	4-32W T8	277 VOLT
N	4" TWO LAMP FLUORESCENT CHANNEL FIXTURE WITH BLUE COLORED SLEEVES	DAY-BRITE T232-277-TSR4 WITH WIREGUARD AND REFLECTOR	2-32W T8	277 VOLT
P	INDIRECT CANOPY FIXTURE	KIM AFL1/175MH277/LG-P/HDS	175MH ED17	277 VOLT
PQ	SAME AS ABOVE WITH QUARTZ RESTRIKE.		175MH ED17	277 VOLT
Q	SAME AS L EXCEPT 200 WATT	STONCO VWXL210C	200W A19	120 VOLT
R	HIGH BAY FIXTURE	DAY-BRITE HB4QM4-277-S17-HP27	400W MH	277 VOLT
RQ	SAME AS ABOVE EXCEPT WITH QUARTZ RESTRIKE	DAY-BRITE HB4QM4-277-0-S17-HP27	400W MH	277 VOLT
S	COMMONS PENDANT HUNG DIRECT HID	KIRLUN SR51235-PM-58-88-FR	250W MH	277 VOLT
T	PLANTER MINI-FLOOD	DAY-BRITE FLS 70MH -DT	70W MH	277 VOLT
UC	UNDERCOUNTER FLUORESCENT	ALKCO SF318-277V	T-8	277 VOLT
V	PENDANT HUNG 2'-4" FLUORESCENT HUNG ON THREADED RODS.	DAY-BRITE 2SM232FS12-277	2-32W T8	277 VOLT
W1	2'-4" 2 LAMP FLUORESCENT UL WET LOCATION LISTED	PRUDENTIAL P3122-48-CT-PRA	2-F32 T8	277 VOLT
W2	2'-4" 4 LAMP FLUORESCENT UL WET LOCATION LISTED	PRUDENTIAL P3124-48-CT-PRA	4-F32 T8	277 VOLT
W2E	SAME AS ABOVE WITH EMERGENCY BATTERY BACKUP.		4-F32 T8	277 VOLT
W3	2'-2" FLUORESCENT FIXTURE UL WET LOCATION LISTED	PRUDENTIAL P3122-24-CT-PRA		277 VOLT
X, X1	SINGLE FACE LED EXIT PROVIDE WIREGUARDS IN GYM	EMERGI-LITE LEDPXL1R277E1 AND UNIVERSAL MOUNTING HARDWARE	LED	277 VOLT
X2	DOUBLE FACE LED EXIT PROVIDE WIREGUARDS IN GYM	EMERGI-LITE LEDPXL2R277E1 AND UNIVERSAL MOUNTING HARDWARE	LED	277 VOLT
Z	EMERGENCY BATTERY POWERED FIXTURE	EMERGI-LITE 12PSC36-2-FR (SURFACE MOUNTED IN SOME PLACES.)	2-BW HALOGEN	277 VOLT
Z2	EMERGENCY BATTERY POWERED FIXTURE-WITH WIREGUARD IN GYM	EMERGI-LITE 12LC400-2	2-BW	277 VOLT
AA	STAGE LIGHTS	LIGHTOLIER ADVENT 2 CIRCUIT TRACK WITH: LIGHTOLIER 6284 LIGHTOLIER 6284	150W PAR38 250W PAR38	120 VOLT
BB	PENDANT HUNG AUDITORIUM HUD	KIRLUN SR51230-PM-58	400W MH	277 VOLT
BBQ	SAME AS ABOVE WITH QUARTZ RESTRIKE	KIRLUN SR51230-PM-58-85	400W MH	277 VOLT
CC	WALL SCONCE, MOUNTED AT 8'-0" AFF TO BOTTOM.	DAY-BRITE SDR-643-WHE	150W INCAND.	120 VOLT
DD	BACKSTAGE INCANDESCENT PENDANT	CAPRI KR6815 WITH TRACK AND POWER SUPPLY	65W MR16	120 VOLT
EE	2' 1 CIRCUIT TRACK WITH DOWNLIGHT	KIM WALL FORM WF31C-P-QS	70W MH	277 VOLT
FF	EXTERIOR WALL MOUNTED FIXTURE COORDINATE COLOR WITH ARCHITECT			
GG	SIGN LIGHT	LITHONIA TFS	100M	120 VOLT, SEE ARCH. PLANS FOR LOCATION

NOTE: ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE T-8, 32 WATT LAMPS AND ELECTROMAGNETIC BALLASTS.



NOTES: (AS INDICATED ON THIS RISER BY A NUMBER IN A)

1. NEW 8'-4"x3'-4" FIRE-RATED TELEPHONE BOARD TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. CLAMP 1 #2/0 COPPER WIRE WITH ITS INSULATION STRIPPED OFF ALONG BASE OF BOARD. RUN THIS 2/0 WIRE IN 3/4" CONDUIT BACK TO THE MDP AND GROUND.
3. STUB OUT EMPTY CONDUITS AS CALLED FOR ON THE PLANS FOR ENTRY INTO THE BUILDING BY TELEPHONE PROVIDER.
4. LOCATE TELEPHONE BOARDS IN ROOMS 205, 305, 405, 600M1, AND 800M2 FOR TELEPHONE EQUIPMENT.

01 TELEPHONE/TELECOMMUNICATIONS RISER

NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	FLUORESCENT LIGHT FIXTURE - LETTER DESIGNATES TYPE.	SEE FIXTURE SCHEDULE.
	EMERGENCY BATTERY-POWERED FLUORESCENT LIGHT FIXTURE	SEE FIXTURE SCHEDULE.
	INCANDESCENT, HID OR FLUORESCENT LIGHT FIXTURE - LETTER DESIGNATES TYPE.	SEE FIXTURE SCHEDULE.
	EMERGENCY BATTERY POWERED FLUORESCENT LIGHT FIXTURE	SEE FIXTURE SCHEDULE.
	EXIT LIGHT - WITH BATTERY-POWERED BACKUP. ARROW INDICATES DIRECTION.	SEE FIXTURE SCHEDULE.
	TOGGLE SWITCH - 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED. PROVIDE TWO POLE SWITCH, AS REQUIRED.	HUBBELL 1221 WITH 97071 COVER.
	DOUBLE SWITCHING FOR LIGHTING FIXTURES - SWITCH "A" SHALL BE INSTALLED 48" ABOVE FINISH FLOOR TO BOTTOM OF OUTLET BOX AND CONTROL THE OUTER TWO LAMPS OF THE FIXTURES. SWITCH "B" SHALL BE INSTALLED 48" ABOVE FINISH FLOOR TO BOTTOM OF OUTLET BOX AND CONTROL THE INNER LAMP(S) OF THE FIXTURES. BOTH SWITCHES SHALL BE INSTALLED IN ONE DOUBLE GANG OUTLET BOX.	AS SPECIFIED ABOVE
	3-WAY SWITCH - INSTALL 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL 1223 WITH 97071 COVER.
	4-WAY TOGGLE SWITCH - 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL 1224 WITH 97071 COVER.
	SINGLE POLE KEY SWITCH - 48" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHER WISE NOTED	HUBBELL 1221-L WITH 97071 COVER AND 2 KEYS PER SWITCH.
	3-WAY KEY SWITCH - 48" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHER WISE NOTED	HUBBELL 1223-L WITH 97071 COVER AND 2 KEYS PER SWITCH.
	4-WAY KEY SWITCH - 48" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHER WISE NOTED	HUBBELL 1224-L WITH 97071 COVER AND 2 KEYS PER SWITCH.
	DUPLEX GROUNDING TYPE RECEPTACLE +16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL 5352 WITH 97101 COVER
	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTING TYPE - INSTALL 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED. WIRED TO PROTECT ALL DOWNSTREAM DEVICES.	HUBBELL GF5352 WITH S26 STAINLESS STEEL WALL PLATE.
	SAME AS ABOVE EXCEPT 2 DUPLEX RECEPTACLES IN A TWO-GANG BOX.	
	WEATHERPROOF DUPLEX GROUNDING TYPE RECEPTACLE +16" ABOVE GRADE TO BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED.	HUBBELL GF5352 WITH 97078 COVER.
	MECHANICALLY HELD LIGHT CONTACTOR. "X" DENOTES LIGHTING CONTACTOR NUMBER.	SQUARE D CLXG1200
	RECESSED FIRE ALARM CONTROL PANEL (ADDRESSABLE)	NOTIFIER AFP-2020
	GRAPHICAL USER PANEL - LAYOUT OF FLOORPLAN OF SCHOOL WITH LED INDICATION OF DEVICE IN ALARM. (ONE LED PER DEVICE.)	
	MANUAL FIRE ALARM PULL STATION - INSTALL 48" ABOVE FINISHED FLOOR TO BOTTOM OF DEVICE (DOUBLE ACTION)	NOTIFIER BGX-111L
	FIRE ALARM SIGNAL - HORN WITH VISUAL ALARM - WALL MOUNTED AT 88" ABOVE FINISHED FLOOR WITH XENON STROBE AND 75 CANDELA MINIMUM OUTPUT.	NOTIFIER #EH-DL1-WA-24-R
	REMOTE ALARM ANNUNCIATORS FOR DUCT DETECTORS. MOUNT AT 88" AFF UNLESS OTHERWISE NOTED. MUST BE KEY-OPERATED. "N" DENOTES AIR HANDLING UNIT NUMBER TO BE IDENTIFIED ON FACEPLATE.	NOTIFIER RA400Z
	FIRE ALARM STROBE UNIT - MOUNT AT 88" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.	NOTIFIER #WMT-24-FR
	FIRE-RATED CONSTRUCTION - SEE ARCHITECTURAL PLANS FOR RATING.	
	HEAT DETECTOR - FIXED TEMPERATURE (140°F)	NOTIFIER FD-651
	IONIZATION SMOKE DETECTOR.	NOTIFIER #CPX-551
	IONIZATION DUCT-TYPE DETECTOR FOR THE AIR HANDLING UNIT. FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE MONITOR MODULES AS NECESSARY.	NOTIFIER #DH500 SEE SPECIFICATIONS.
	DISCONNECT SWITCH (HEAVY DUTY)	SEE SPECIFICATIONS.
	120/208 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES.	SEE SPECIFICATIONS.
	480/277 VOLT PANELBOARD WITH NEUTRAL AND GROUND BUS ACCESSORIES. MAXIMUM 72" WIDE WIDTH IS ALLOWED.	SEE SPECIFICATIONS.
	DRY TYPE TRANSFORMER (T-X)-FEEDER PANEL DESIGNATION SEE RISER	SEE SPECIFICATIONS.
	WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE, UNDER SLAB, OR ABOVE FINISHED CEILING.	SEE SPECIFICATIONS.
	WIRING AND CONDUIT INSTALLED CONCEALED IN WALL SPACE, UNDER SLAB, OR ABOVE FINISHED CEILING.	SEE SPECIFICATIONS.
	HOMERUN CIRCUIT PANELBOARD - NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS.	SEE SPECIFICATIONS.
	JUNCTION BOX WITH REMOVABLE COVER - SIZE PER NATIONAL ELECTRICAL CODE.	
	ABOVE FINISHED FLOOR.	
	TELEPHONE OUTLET - 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET. STUB 3/4" CONDUIT ABOVE THE FINISHED CEILING. PROVIDE PULL CORD. WIRING BY OTHERS. SEE TELEPHONE RISER.	SINGLE GANG OUTLET BOX WITH HUBBELL S12 COVER.
	TELEPHONE PANEL 3/4" FIRE RETARDANT PLYWOOD UNLESS OTHERWISE NOTED.	SEE SPECIFICATIONS
	PA LOUDSPEAKER - CEILING MOUNTED.	DUKANE 64342B WITH 145-228 BACKBOX AND SUPPORT BRIDGING.
	WEATHERPROOF	DUKANE IT2554 WALL TELEPHONE WITH KEYPADS
	CLASSROOM HANDSET - INSTALL 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH CLASSROOM LIGHT SWITCHES 50 AS NOT TO CONFLICT.	DUKANE IT2554 WALL TELEPHONE WITH KEYPADS
	WIRE MOLD. SURFACE MOUNTED RACEWAY WITH HUBBELL RECEPTACLE #5352 AND COMPUTER OUTLET TO MATCH COMPUTER EQUIPMENT. COMPUTER AND RECEPTACLE ARE TO BE 3'-0" ON CENTER.	WIREMOLD #4049-1
	DUPLEX FLOOR RECEPTACLE/COMPUTER OUTLET WITH CARPET FLANGES WITH RECEPTACLES AND APPROPRIATE COMPUTER CONNECTION. STUB ONE 1" CONDUIT ABOVE THE NEAREST CORRIDOR LAY-IN CEILING, FOR COMPUTER CONNECTIONS.	HUBBELL 353FBC WITH 353RPP AND 353RP.
	EMERGENCY BATTERY-POWER BACKUP. MOUNT AT +88" ABOVE FINISHED FLOOR.	SEE FIXTURE SCHEDULE.
	CABLE TV OUTLET BOX AND DUPLEX RECEPTACLE MOUNTED AT 48" AFF. RUN 3/4" CONDUIT WITH PULLCORD STUBBED OUT ABOVE THE LAY-IN CEILING FOR CABLE TV OUTLET.	DOUBLE GANG OUTLET BOX WITH STAINLESS STEEL COVER FOR TELEVISION CONNECTION
	WALL CLOCK - MOUNTED 1'-0" BELOW CEILING GRID. PROVIDED WITH WALL HANGER AND CLOCK POWER OUTLET.	ELECTRIC TIME COMPANY P05212
	IN FLOOR TELEPHONE OUTLET WITH BRASS CARPET FLANGE. STUB ONE 3/4" CONDUIT FROM OUTLET BOX OUT ABOVE THE LAY-IN CEILING WITH PULLCORD.	HUBBELL
	IN FLOOR COMPUTER OUTLET WITH BRASS CARPET FLANGE. STUB ONE 3/4" CONDUIT FROM OUTLET BOX OUT ABOVE THE LAY-IN CEILING WITH PULLCORD.	HUBBELL
	PA INTERCOM SPEAKER/HORN. WP DENOTES WEATHERPROOF.	DUKANE 5A297 SPEAKER/HORN
	CABLETRAY SYSTEM. SUPPORT ON 10' CENTERS WITH THREADED RODS AND SUPPORT HARDWARE FROM THE STRUCTURE. TRAY IS 4" DEEP AND 12" WIDE WITH RUNGS ON 9" SPACINGS.	B-LINE CENT-R-RAIL CAA-DB-09-12 LENGTH AS SHOWN ON PLANS.

RECORD DRAWINGS

FEBRUARY 1998

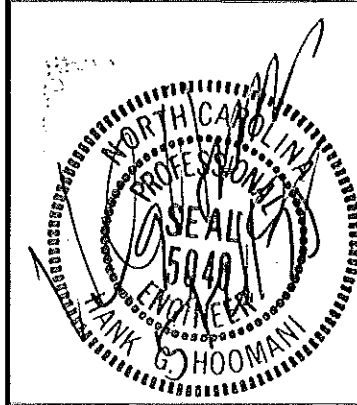
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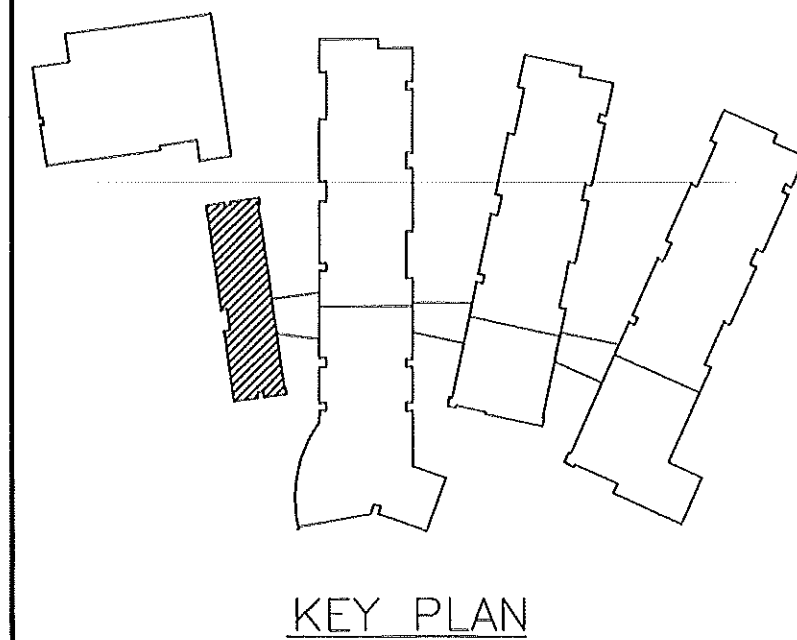


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no.	description	date
Revisions		



KEY PLAN

**New Havelock
Middle School**

Craven County
North Carolina

project title

LIGHTING PLAN
sheet title

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

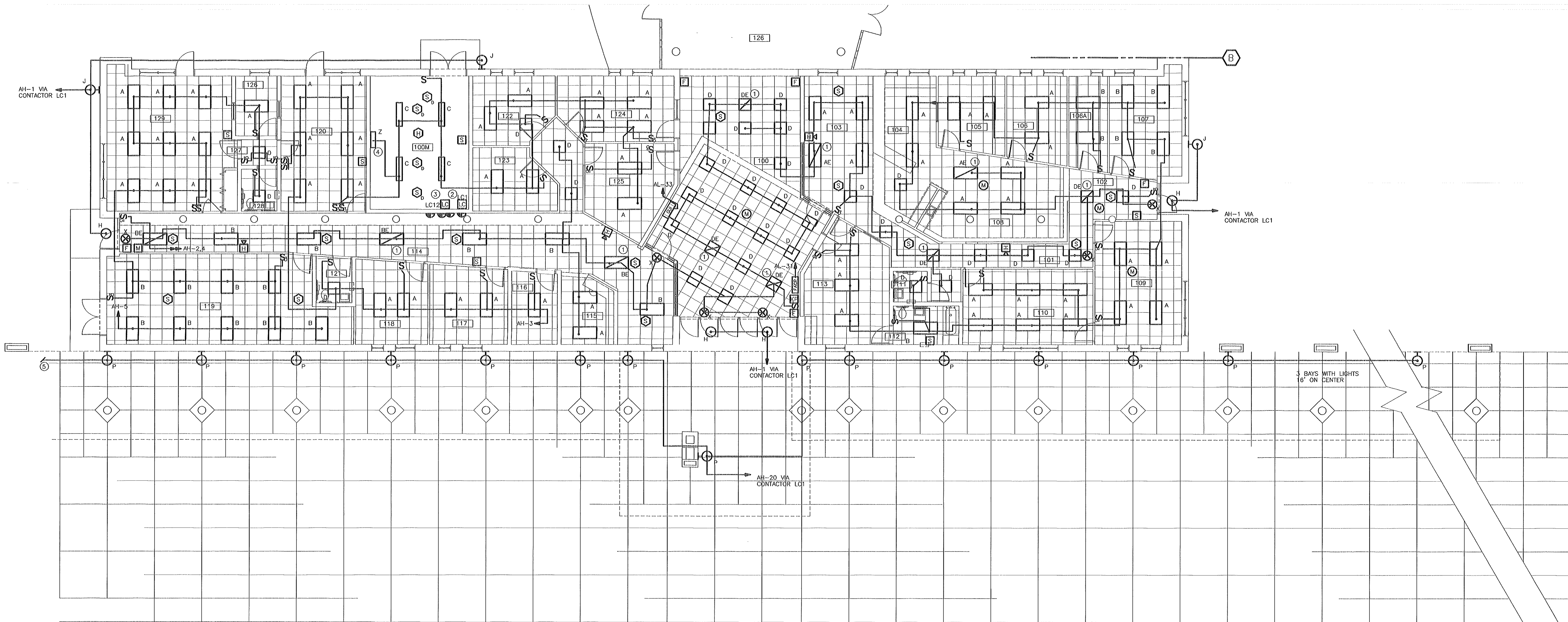
9502.00
PDC #95045
project no.

sheet no. 2 of: 20

1/15/96
date

sheet no. **E-2**

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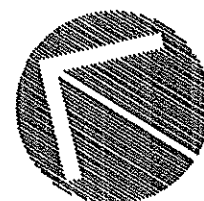
1 ADMINISTRATION LIGHTING PLAN
E-2 1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- 1 NIGHT LIGHT, WIRE AHEAD OF SWITCH, WHERE FIXTURE IS A FOUR LAMP FIXTURE, WIRE ONLY TWO LAMPS AHEAD OF SWITCH.
- 2 LIGHTING CONTACTOR FOR CONTROLLING EXTERIOR LIGHTS, LOCATED IN MECHANICAL ROOM 100M.
- 3 LIGHTING CONTACTOR LC12 FOR CONTROLLING CORRIDOR LIGHTS, CIRCUIT ALL CORRIDOR AND LOBBY LIGHTING THROUGH THIS CONTACTOR.
- 4 FIXTURE TYPE "2" SURFACE MOUNTED TO WALL OF MECHANICAL ROOM AT +11' AFF.
- 5 SEE GYMNASIUM LIGHTING PLAN FOR CONTINUATION.

NOTE:

LIGHT SWITCHES SHOWN CONTROLLING CORRIDOR LIGHTS, CIRCUITED THROUGH CONTACTORS ARE TO BE USED AS OVERRIDE "ON" SWITCHES. CONTACTORS ARE CONTROLLED VIA THE DDC SYSTEM, AND THE CONTROLS CONTRACTOR SHALL CONNECT TO THE CONTACTOR TO CONTROL LIGHT FIXTURES. ALL FIXTURES SHOWN CIRCUITED VIA CONTACTOR SHALL BE CONTROLLED VIA THE DDC SYSTEM.

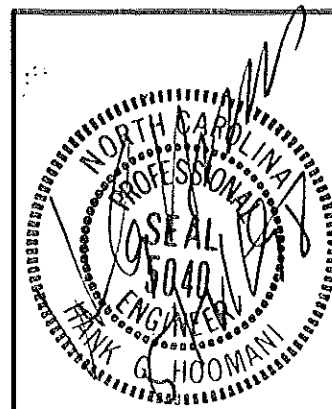


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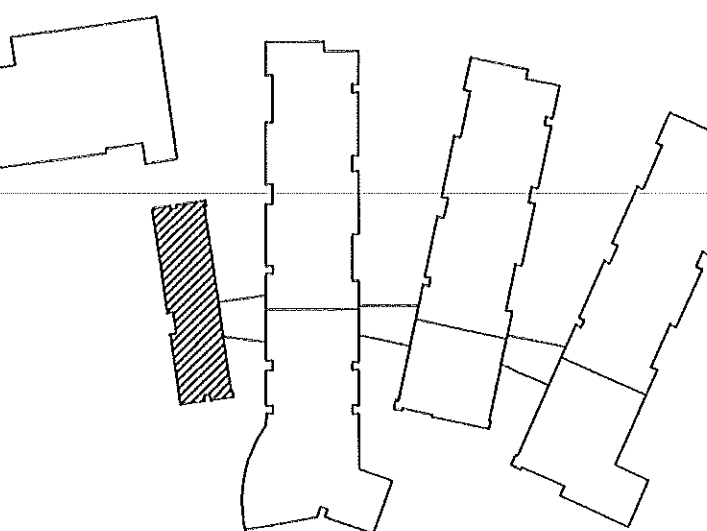
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Revisions



KEY PLAN

New Havelock Middle School

Craven County
North Carolina

project title

POWER PLAN

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

9502.00
PDC #95045
project no.

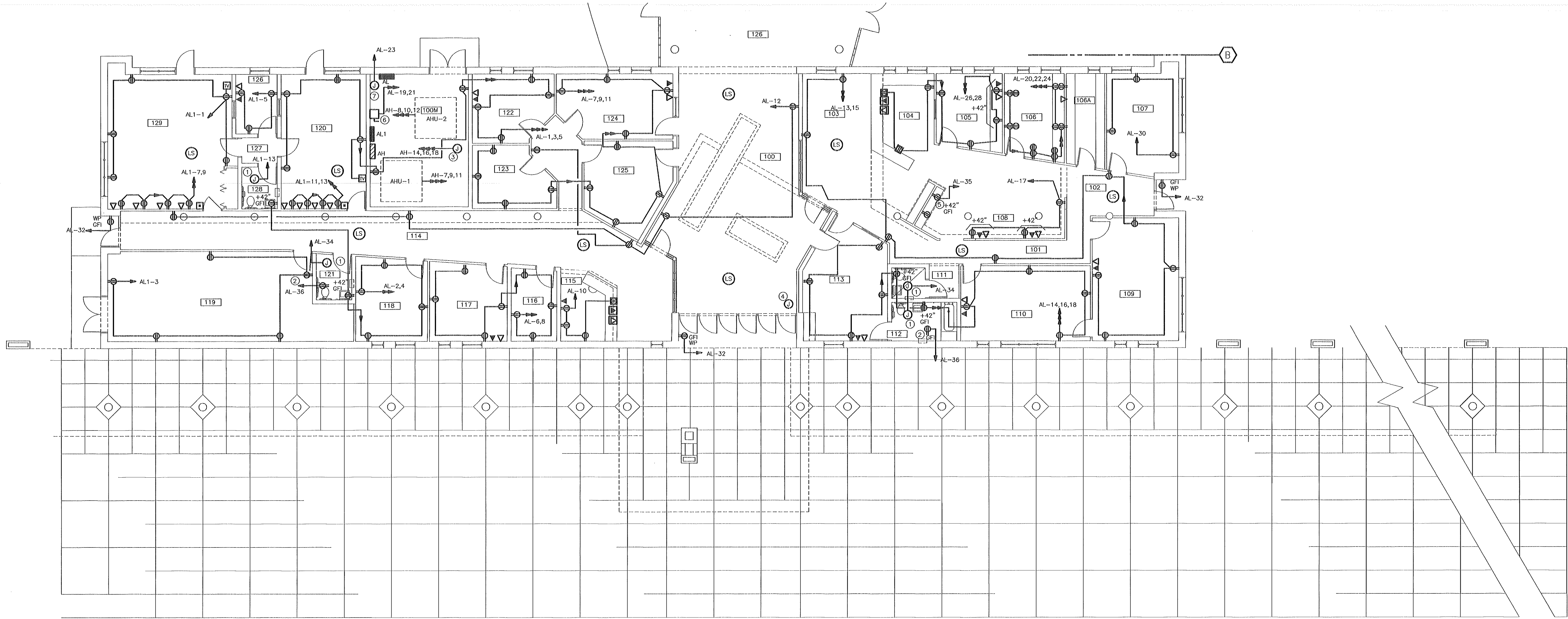
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1/15/99/25/95
date

sheet no. **E-3**

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1 ADMINISTRATION POWER PLAN
1/8" = 1'-0"

NOTES:(AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

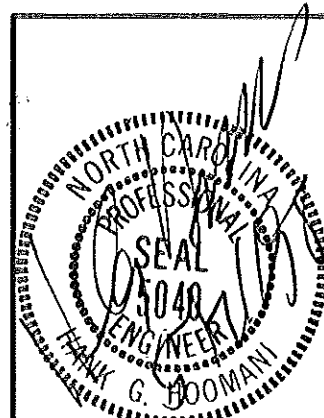
- WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- WEATHERPROOF DUPLEX GFI ROOF MOUNTED RECEPTACLE FOR SERVICING ROOF MOUNTED EQUIPMENT.
- JUNCTION BOX FOR UNIT HEATER. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- JUNCTION BOX FOR SECURITY KEYPAD. COORDINATE EXACT LOCATION OF RECESSED SINGLE GANG OUTLET BOX WITH THE ARCHITECT PRIOR TO ROUGH IN. STUB OUT ONE 1" CONDUIT FROM THE OUTLET BOX TO ABOVE THE LAY-IN CEILING, AND INSTALL PULLCORD.
- COORDINATE INSTALLATION OF RECEPTACLE IN CASEWORK WITH THE GENERAL CONTRACTOR. RECEPTACLE IS FOR COUNTERTOP EQUIPMENT.
- 240 VOLT, 30 AMP, 2 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.
- 120 VOLT JUNCTION BOX FOR RECIRCULATING PUMP. COORDINATE EXACT LOCATION WITH THE PLUMBING CONTRACTOR.

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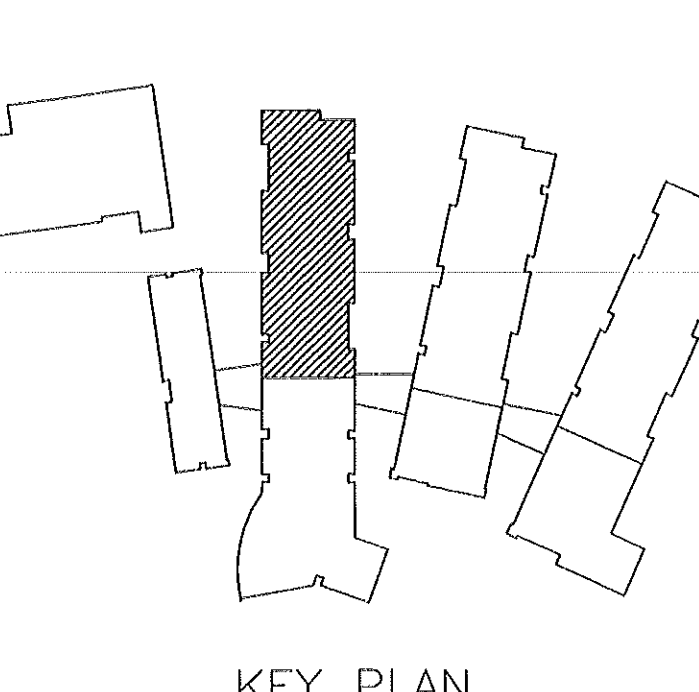


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New Havelock Middle School

Craven County
North Carolina

project title

LIGHTING PLAN

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

sheet title

9502.00
PDC #95045
project no.

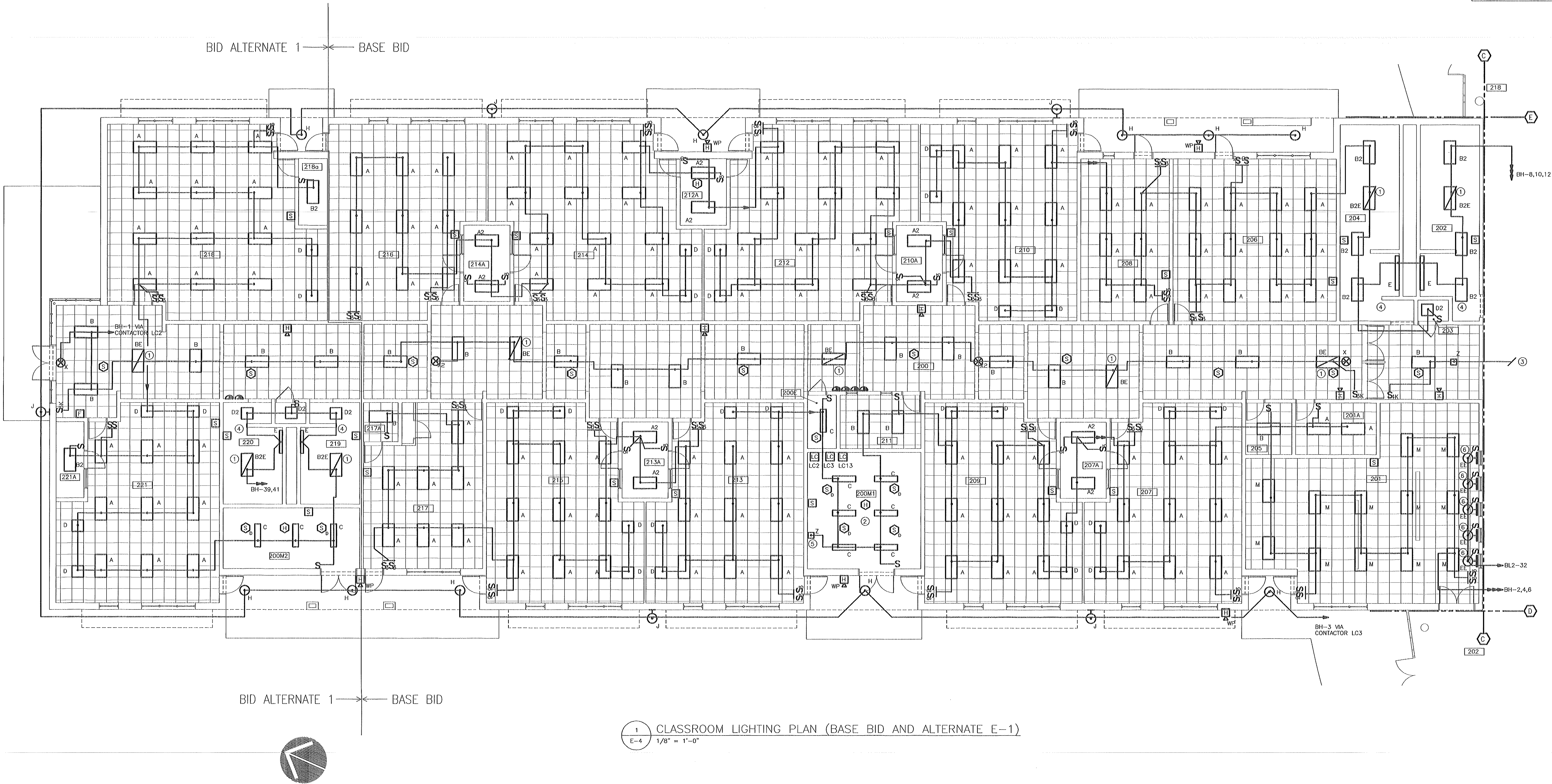
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date

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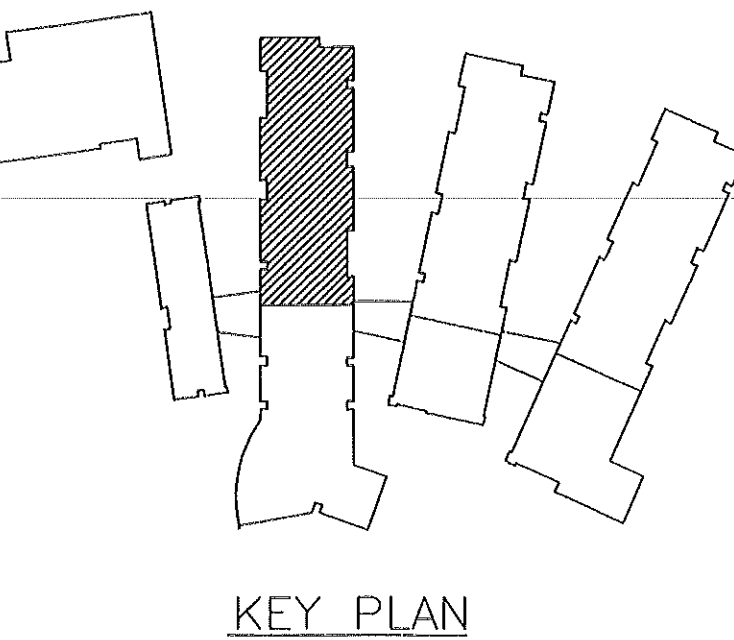


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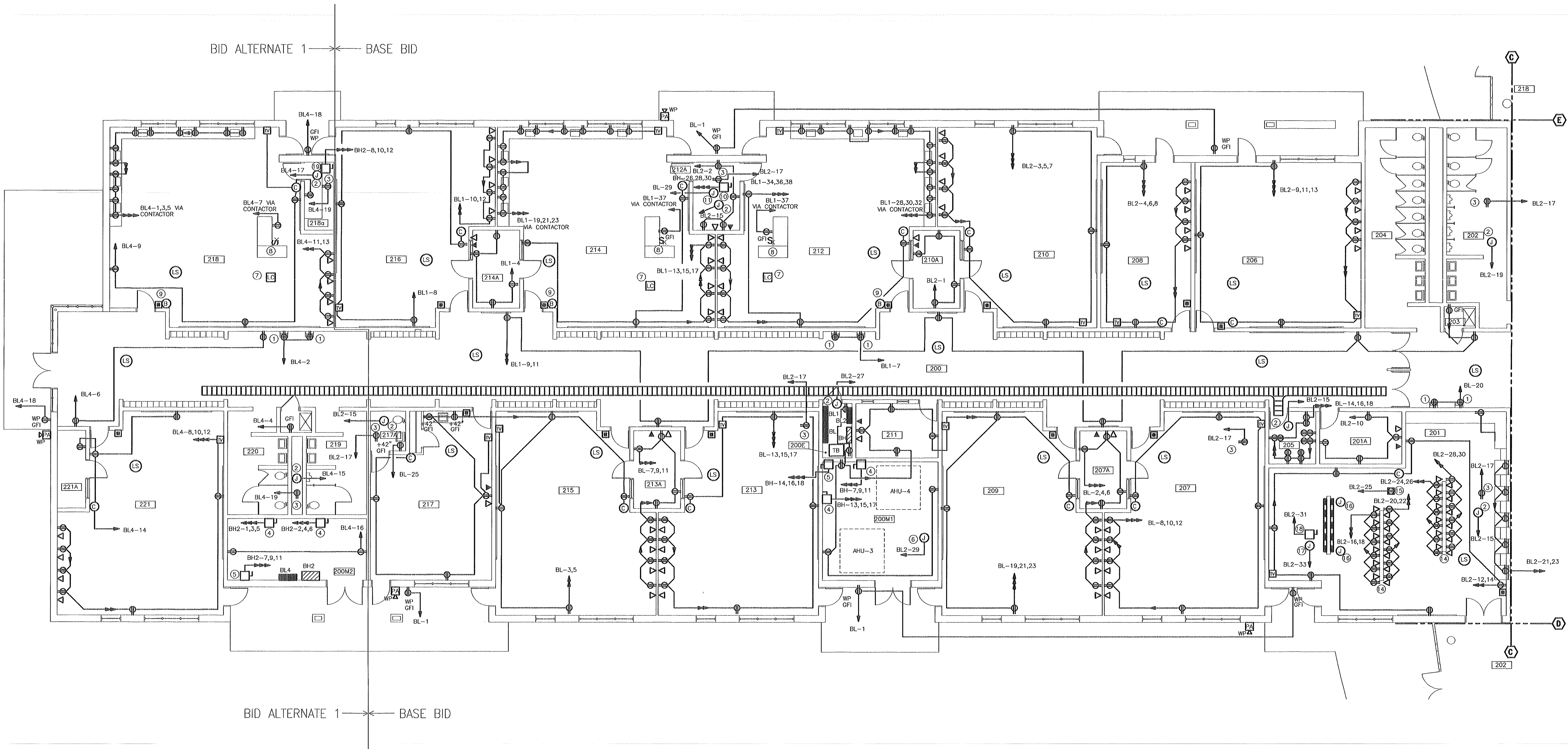
New Havelock Middle School

Craven County
North Carolina

project title	
POWER PLAN	1/8" = 1'-0"
sheet title	scale:
9502.00 PDC #95045 project no.	sheet no. 5 of 20
1/15/96 date	sheet no. E-5

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1 CLASSROOM POWER PLAN (BASE BID AND ALTERNATE E-1)
E-5 1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- COORDINATE EXACT LOCATION OF RECEPTACLE FOR ELECTRIC WATER COOLER WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.
- JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN, WEATHERPROOF. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- WEATHERPROOF DUPLEX GFI RECEPTACLE, ROOF MOUNTED, FOR SERVICING ROOF MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 480 VOLT, 30 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AUL, COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
- SAME AS 4 ONLY FOR UNIT HEATER.
- JUNCTION BOX FOR CONTROLS. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- LIGHTING CONTACTOR FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02. LOCATE CONTACTOR ABOVE THE LAY-IN CEILING.
- KEYED SWITCH FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.
- EMERGENCY SHUT-OFF BUTTON FOR ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.
- 480 VOLT, 200 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- JUNCTION BOX FOR WATER HEATER RECIRCULATING PUMP.

- JUNCTION BOX FOR IN-LINE EXHAUST FAN LOCATED ABOVE THE LAY-IN CEILING. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR. SWITCH FAN WITH A MULTI-POLE SWITCH LOCATED AT EACH OF FOUR RANGES. ALL SWITCHES WILL CONTROL THE EXHAUST FAN.
- JUNCTION BOX FOR HOOD LIGHTS.
- DEVICES LOCATED IN KNEE WALLS ARE TO BE FED FROM UNDER SLAB. COORDINATE EXACT LOCATION OF WALL WITH THE ARCHITECTURAL PLANS. MOUNT DEVICES AT +42" AFF.
- COORDINATE EXACT LOCATION OF IN FLOOR RECEPTACLE AND COMPUTER OUTLET WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- IN FLOOR OUTLET BOX WITH FLUSH BRASS COVERPLATE, FOR FUTURE KNEE WALL. STUB FOUR 1" CONDUITS (WITH PULLCORD) OUT ABOVE THE NEAREST CORRIDOR LAY-IN CEILING.
- SAME AS 2 EXCEPT FOR ROOF VENT.
- DISCONNECT SWITCH FOR ABOVE CEILING MECHANICAL UNIT. 240 VOLT, 30 AMP, 1 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- UNDER ALTERNATE E-1, PROVIDE A 480 VOLT, 40 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER IN ROOM 218A. CIRCUIT ON BH2-8,10,12. COORDINATE LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.

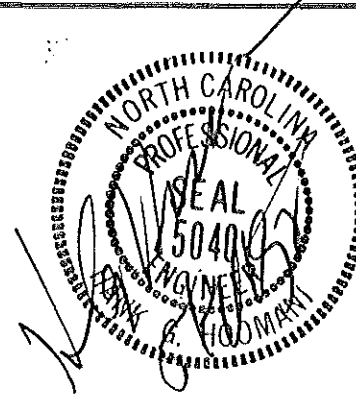
NOTES:

- ALL RECEPTACLES MOUNTED IN CASEWORK IN ROOMS 212, 214, 216, AND 218 ARE TO BE GFI RECEPTACLES. COORDINATE LOCATIONS OF RECEPTACLES WITH THE CASEWORK DETAILS.
- ALL CLOCKS AND TV RECEPTACLES SHALL BE CIRCUITED AHEAD OF THE EMERGENCY ELECTRICAL SHUT-OFF.

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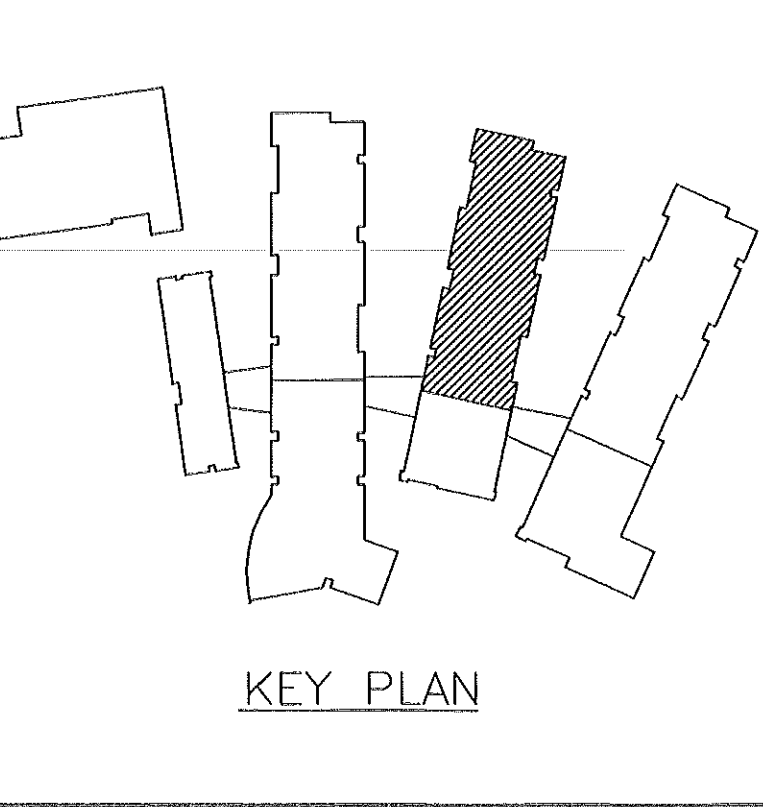


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Project Engineer: **J. Kevin Mason**
drawn by: **Wynn Britt**
checked by: **Hank G. Hoomani**

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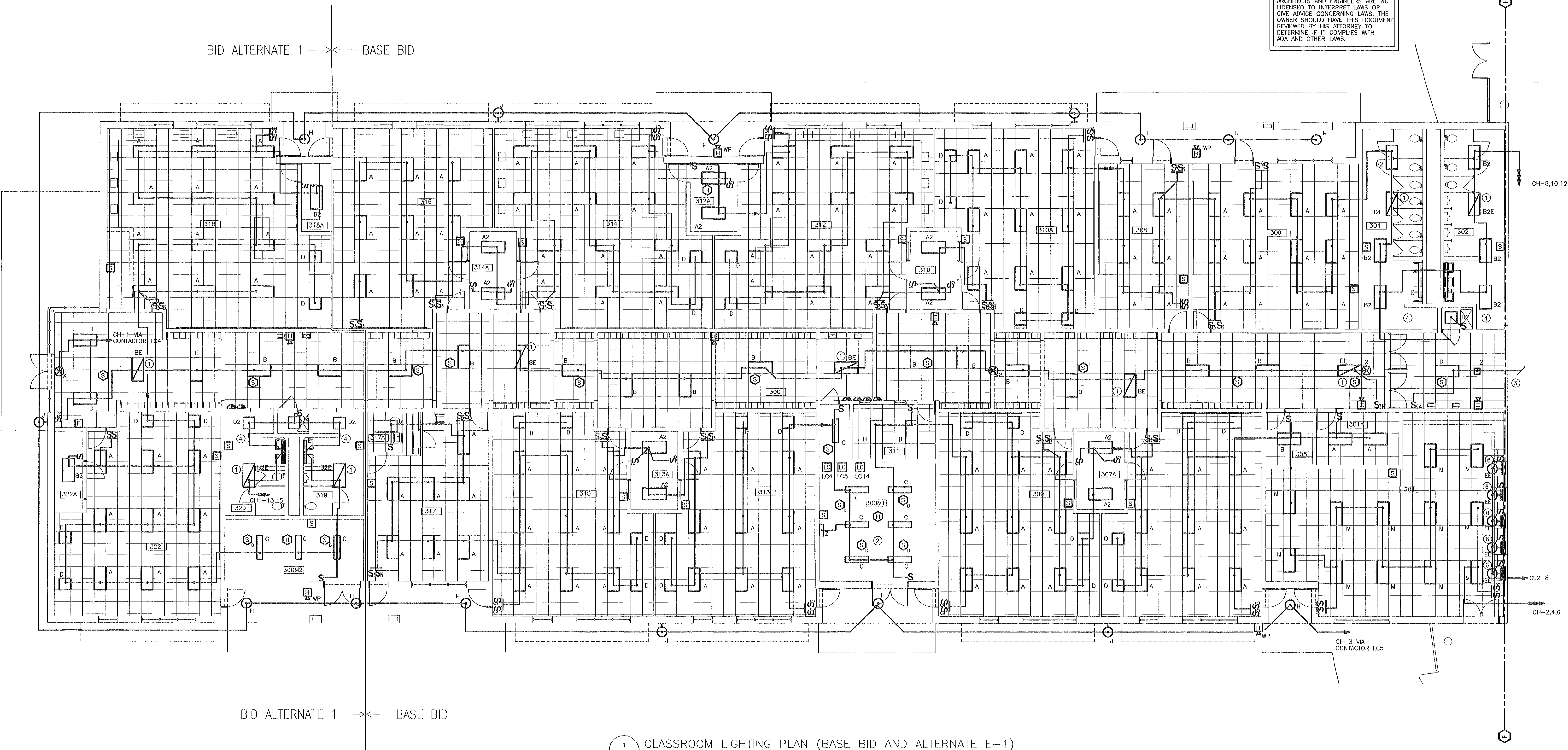
New Havelock Middle School
Craven County
North Carolina
project title

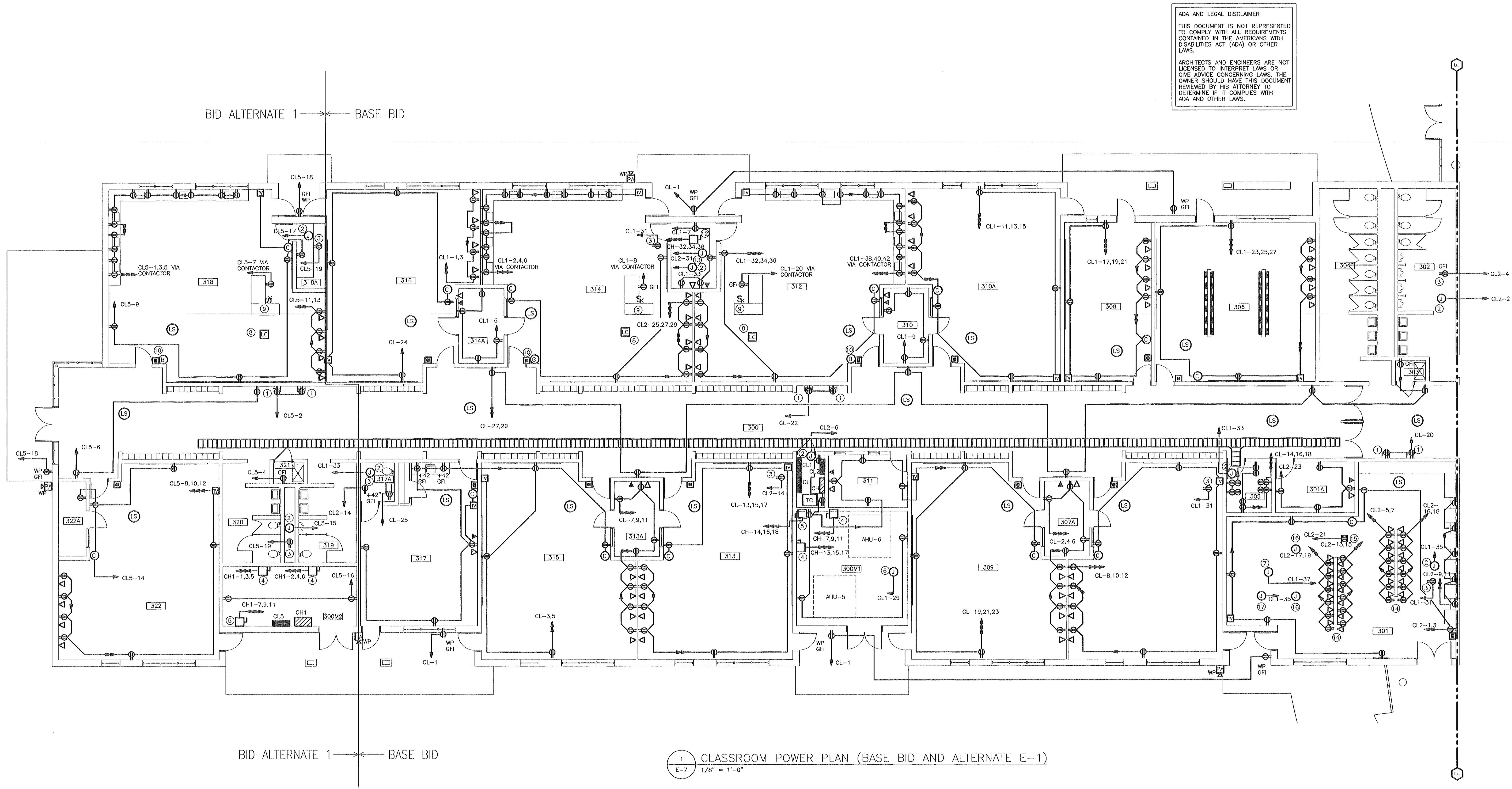
LIGHTING PLAN	1/8" = 1'-0"
sheet title	scale:
9502.00 PDC #95045 project no.	sheet no. 6 of 20
1/15/96 date	sheet no. E-6

RECORD DRAWINGS, FEBRUARY 1998
THESE DRAWINGS HAVE BEEN REVISED TO SHOW SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS, BASED ON MARKED-UP PRINTS, DRAWINGS, AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE DRAWINGS ARE NOT REPRESENTED TO CONTAIN EVERY MINOR CHANGE MADE DURING CONSTRUCTION AND ARE NOT TO BE CONSIDERED AS "AS-BUILT".

- NOTE:
1. CIRCUIT ALL INNER LAMPS OF ALL FOUR LAMP CLASSROOM FIXTURES IN THE 300 AND 600 AREAS THROUGH CONTACTOR LC14 IN ROOM 300M. THIS IS TO BE DONE AHEAD OF ANY CLASSROOM SWITCH.
- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- NIGHT LIGHT. WIRE AHEAD OF SWITCH.
 - COORDINATE LOCATION OF CHAIN HUNG FIXTURES IN MECHANICAL ROOM SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT.
 - SEE SHEET E-10 FOR CIRCUIT CONTINUATION.
 - SWITCH TOILET LIGHTING FIXTURES IN ROOMS 302 AND 304 VIA CONTACTOR LC4, WITH THE CORRIDOR LIGHTS.
 - SURFACE MOUNT TYPE "Z" FIXTURE TO THE WALL AT +11' ABOVE FINISHED FLOOR.
 - 24" TRACK WITH DOWNLIGHT. FIXTURE TYPE "EE". CONTROL INDIVIDUALLY WITH WALL MOUNTED SWITCH LOCATED BESIDE WINDOW.

1 CLASSROOM LIGHTING PLAN (BASE BID AND ALTERNATE E-1)
E-6 1/8" = 1'-0"



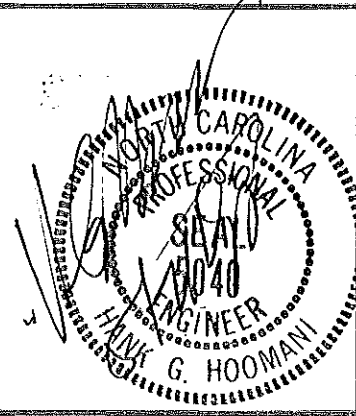


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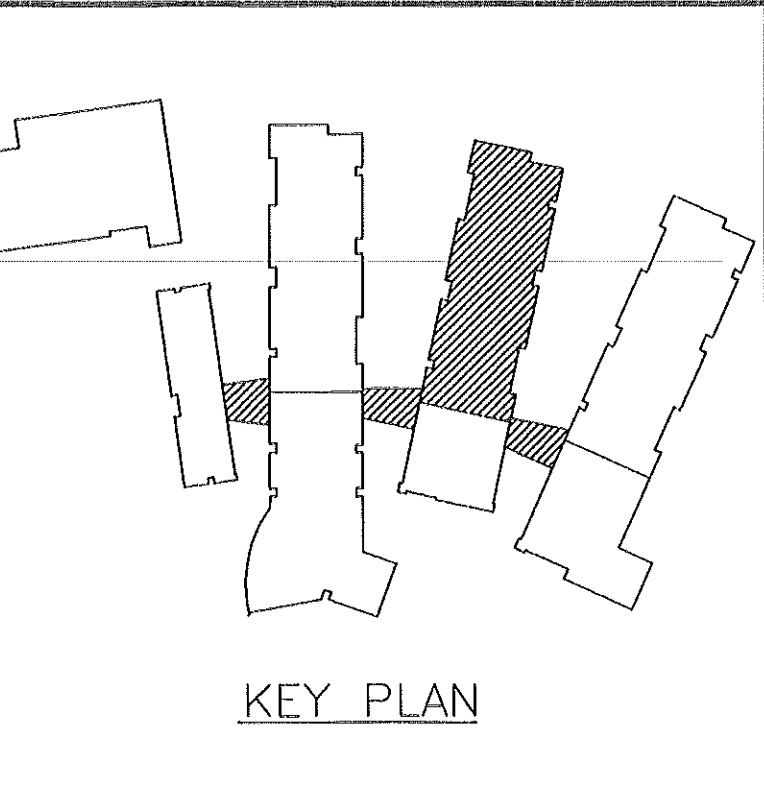


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Project Engineer: **JKM**
drawn by: **JKM**
checked by: **Hank G. Hoomanl**

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Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

POWER PLAN

sheet title

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

9502.00
PDC #95045
project no.

sheet no. 7 of: 20

date

sheet no.

E-7

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- COORDINATE EXACT LOCATION OF RECEPTACLE FOR ELECTRIC WATER COOLER WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.
- JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN, WEATHERPROOF. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- WEATHERPROOF DUPLEX GFI RECEPTACLE, ROOF MOUNTED, FOR SERVICING ROOF MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 480 VOLT, 30 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AHU. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
- SAME AS 4 ONLY FOR UNIT HEATER.
- JUNCTION BOX FOR CONTROLS. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- IN ROOM 301, PROVIDE A 240 VOLT, 30 AMP, 1 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH. COORDINATE LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
- LIGHTING CONTACTOR FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02. LOCATE THE CONTACTOR ABOVE THE LAY-IN CEILING.
- KEYED SWITCH FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.

- EMERGENCY SHUT-OFF BUTTON FOR ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.
- THERE SHOULD BE EIGHT COMPUTER OUTLETS AND EIGHT DUPLEX RECEPTACLES IN EACH WIREMOLD, SPACED ON 3' CENTERS. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. RUN TWO 1" CONDUIT STUB-OUTS BELOW SLAB AND UP ABOVE THE LAY-IN CEILING FROM EACH GROUP OF EIGHT COMPUTER OUTLETS. INSTALL PULLCORDS IN CONDUIT.
- 480 VOLT, 100 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.
- JUNCTION BOX FOR WATER HEATER RECIRCULATING PUMP. COORDINATE LOCATION.
- DEVICES LOCATED IN KNEE WALLS ARE TO BE FED FROM UNDER SLAB. COORDINATE EXACT LOCATION OF WALL WITH THE ARCHITECTURAL PLANS. MOUNT DEVICES AT +42" AFF.
- COORDINATE EXACT LOCATION OF IN FLOOR RECEPTACLE AND COMPUTER OUTLET WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- IN FLOOR OUTLET BOX WITH FLUSH BRASS COVERPLATE, FOR FUTURE KNEE WALL STUB FOUR 1" CONDUITS (WITH PULLCORD) OUT ABOVE THE NEAREST CORRIDOR LAY-IN CEILING.
- SAME AS 2 EXCEPT FOR ROOF VENT.

NOTES:

- ALL RECEPTACLES MOUNTED IN CASEWORK IN ROOMS 312, 314, 316, AND 318 ARE TO BE GFI RECEPTACLES. COORDINATE LOCATION OF RECEPTACLES WITH THE CASEWORK DETAILS.
- ALL CLOCKS AND TV RECEPTACLES SHALL BE CIRCUITED AHEAD OF THE EMERGENCY ELECTRICAL SHUT-OFF.
- UNDER ALTERNATE E-1, PROVIDE A 480 VOLT, 40 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER IN ROOM 318A. CIRCUIT ON CH1-8,10,12. COORDINATE LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.

RECORD DRAWINGS: FEBRUARY 1998

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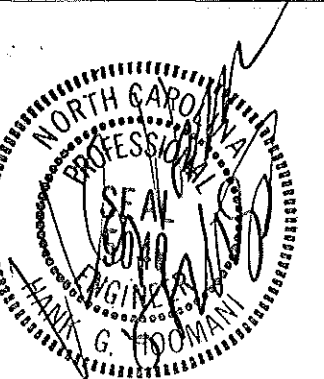
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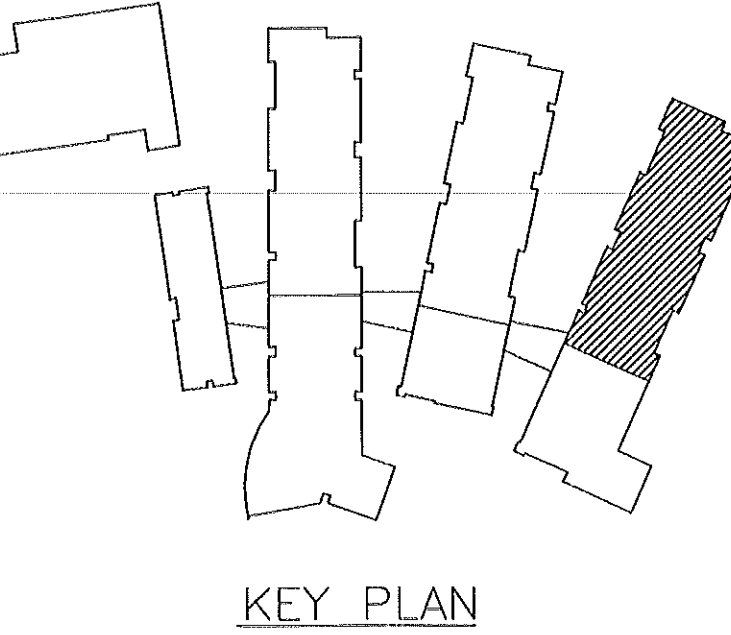


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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

LIGHTING PLAN
sheet title

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

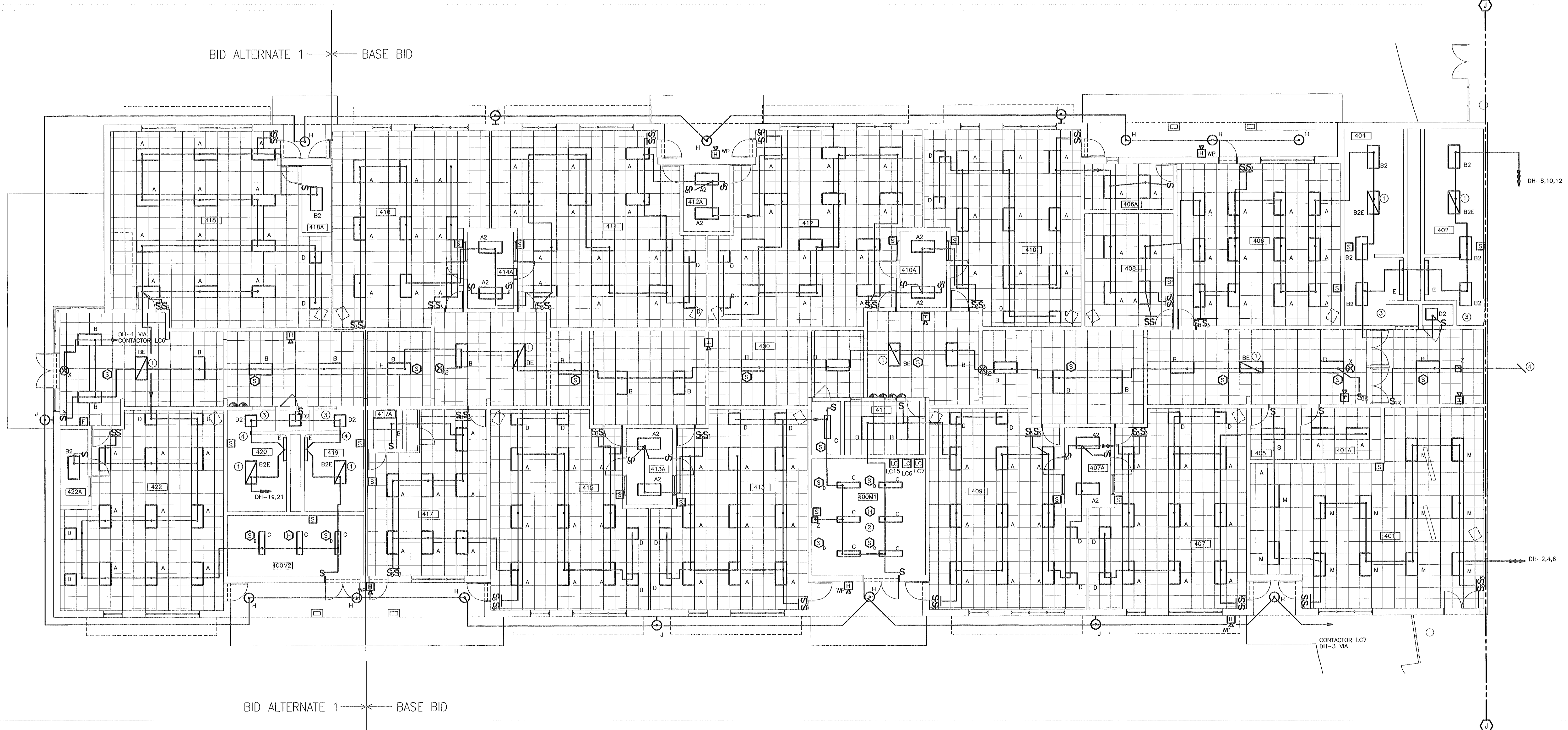
9502.00
PDC #95045
project no.

sheet no. B of: 20

1/15/96
date

sheet no. **E-8**

RECORD DRAWINGS FEBRUARY 1998
THESE DRAWINGS HAVE BEEN REVISED TO SHOW SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS, BASED ON MARKED-UP PRINTS, DRAWINGS, AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE DRAWINGS ARE NOT REPRESENTED TO CONTAIN EVERY MINOR CHANGE MADE DURING CONSTRUCTION AND ARE NOT TO BE CONSIDERED AS "AS-BUILT".



1 CLASSROOM LIGHTING PLAN (BASE BID AND ALTERNATE E-1)
E-8 1/8" = 1'-0"

- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ① NIGHT LIGHT. WIRE AHEAD OF SWITCH.
 - ② COORDINATE LOCATION OF CHAIN HUNG FIXTURES IN MECHANICAL ROOM SO AS NOT TO CONFLICT WITH OTHER EQUIPMENT.
 - ③ SWITCH TOILET LIGHTS IN ROOMS 402, 404, 419 AND 420 VIA CONTACTOR LC6, WITH THE CORRIDOR FIXTURES.
 - ④ SEE SHEET E-12 FOR CONTINUATION.
 - ⑤ SURFACE MOUNT TYPE "Z" FIXTURE TO WALL AT +11' ABOVE FINISHED FLOOR.

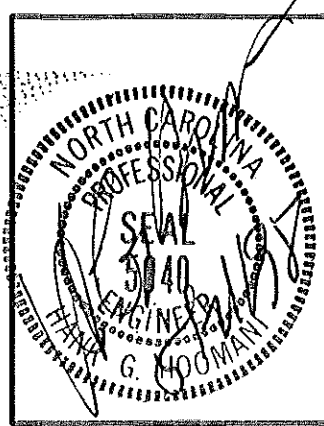
- NOTES:
1. CIRCUIT ALL INNER LAMPS OF ALL FOUR LAMP CLASSROOM FIXTURES IN THE 400 AND 700 AREAS THROUGH CONTACTOR LC-15 IN ROOM 400M. THIS IS TO BE DONE AHEAD OF ANY CLASSROOM SWITCH.
 2. WORK IN AREAS DESIGNATED AS ALTERNATE E-1 SHALL ONLY BE DONE IF ALTERNATE E-1 IS ACCEPTED.
 3. ADD FIVE (5) TYPE EE TRACK SECTIONS AND FIVE (5) FIXTURES OVER THE DISPLAY CASES IN ROOM 401. CIRCUIT ON DL2-22. ADD FIVE SWITCHES TO CONTROL FIXTURES AS WELL (IN SAME MANNER AS LIGHTS OVER CASES IN ROOM 301).

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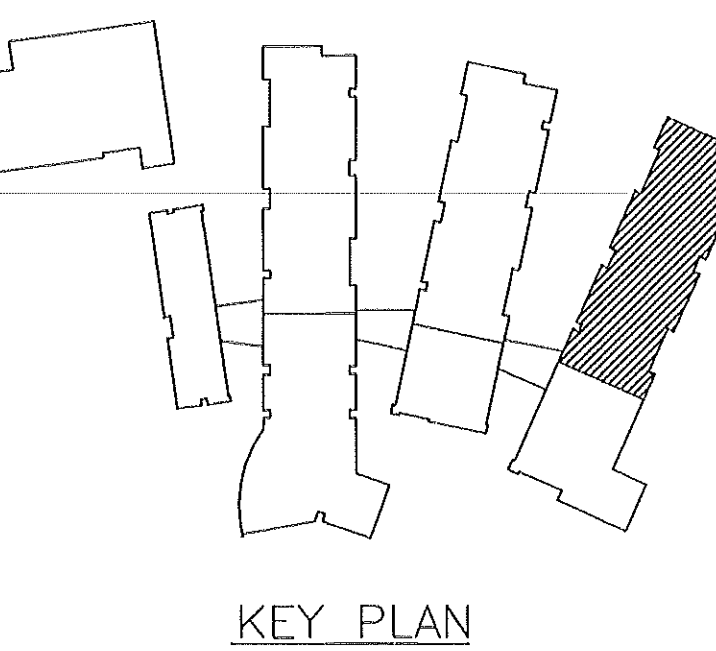


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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

POWER PLAN
sheet title

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

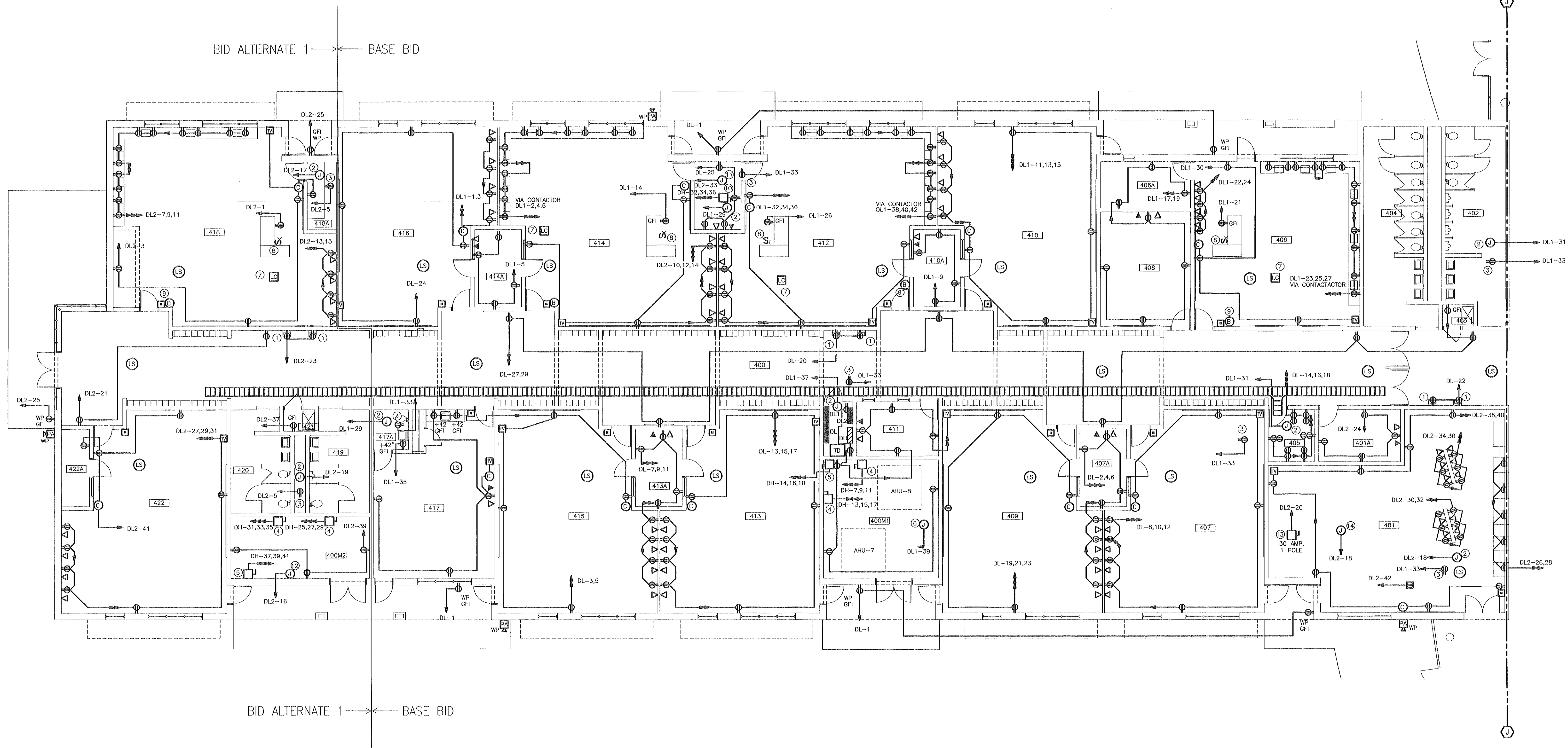
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PDC #95045
project no.

sheet no. 9 of 20

1/15/96
date

sheet no. **E-9**

released for construction: 1/15/96



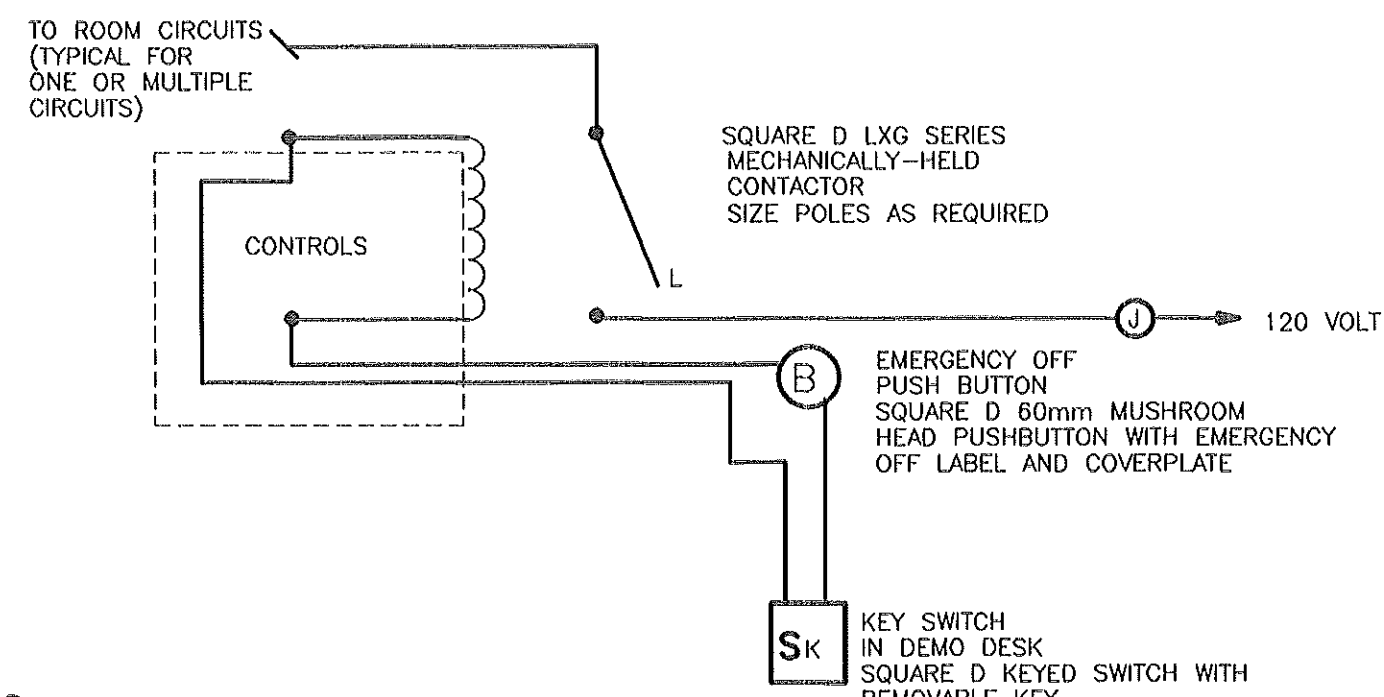
CLASSROOM POWER PLAN (BASE BID AND ALTERNATE E-1)
1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- COORDINATE EXACT LOCATION OF RECEPTACLE FOR ELECTRIC WATER COOLER WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.
- JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN, WEATHERPROOF. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- WEATHERPROOF DUPLEX GFI RECEPTACLE, ROOF MOUNTED, FOR SERVICING ROOF MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 480 VOLT, 30 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AHU. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
- SAME AS (4) ONLY FOR UNIT HEATER.
- CONTROLS JUNCTION BOX. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- LIGHTING CONTACTOR FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02. LOCATE CONTACTOR ABOVE THE LAY-IN CEILING.
- KEYED SWITCH FOR EMERGENCY ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.
- EMERGENCY SHUT-OFF BUTTON FOR ELECTRICAL SHUT-OFF. SEE DETAIL E9-02.
- 480 VOLT, 100 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.
- JUNCTION BOX FOR WATER HEATER RECIRCULATING PUMP. COORDINATE LOCATION.
- JUNCTION BOX FOR CONTROLS.
- JUNCTION BOX FOR ABOVE CEILING MECHANICAL UNIT.
- SAME AS (2) EXCEPT FOR ROOF VENT.

NOTES:

- ALL RECEPTACLES MOUNTED IN CASEWORK IN ROOMS 406, 412, 414 AND 418 ARE TO BE GFI RECEPTACLES. COORDINATE LOCATIONS OF RECEPTACLES WITH THE CASEWORK DETAILS.
- ALL CLOCKS AND TELEVISION RECEPTACLES SHALL BE CIRCUITED AHEAD OF THE EMERGENCY ELECTRICAL SHUT-OFF.
- WORK IN AREAS DESIGNATED AS ALTERNATE E-1 SHALL ONLY BE DONE IF ALTERNATE E-1 IS ACCEPTED.
- UNDER ALTERNATE E-1, PROVIDE A 480 VOLT, 40 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER IN ROOM 418A. CIRCUIT ON DH-20,22,24. COORDINATE LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.



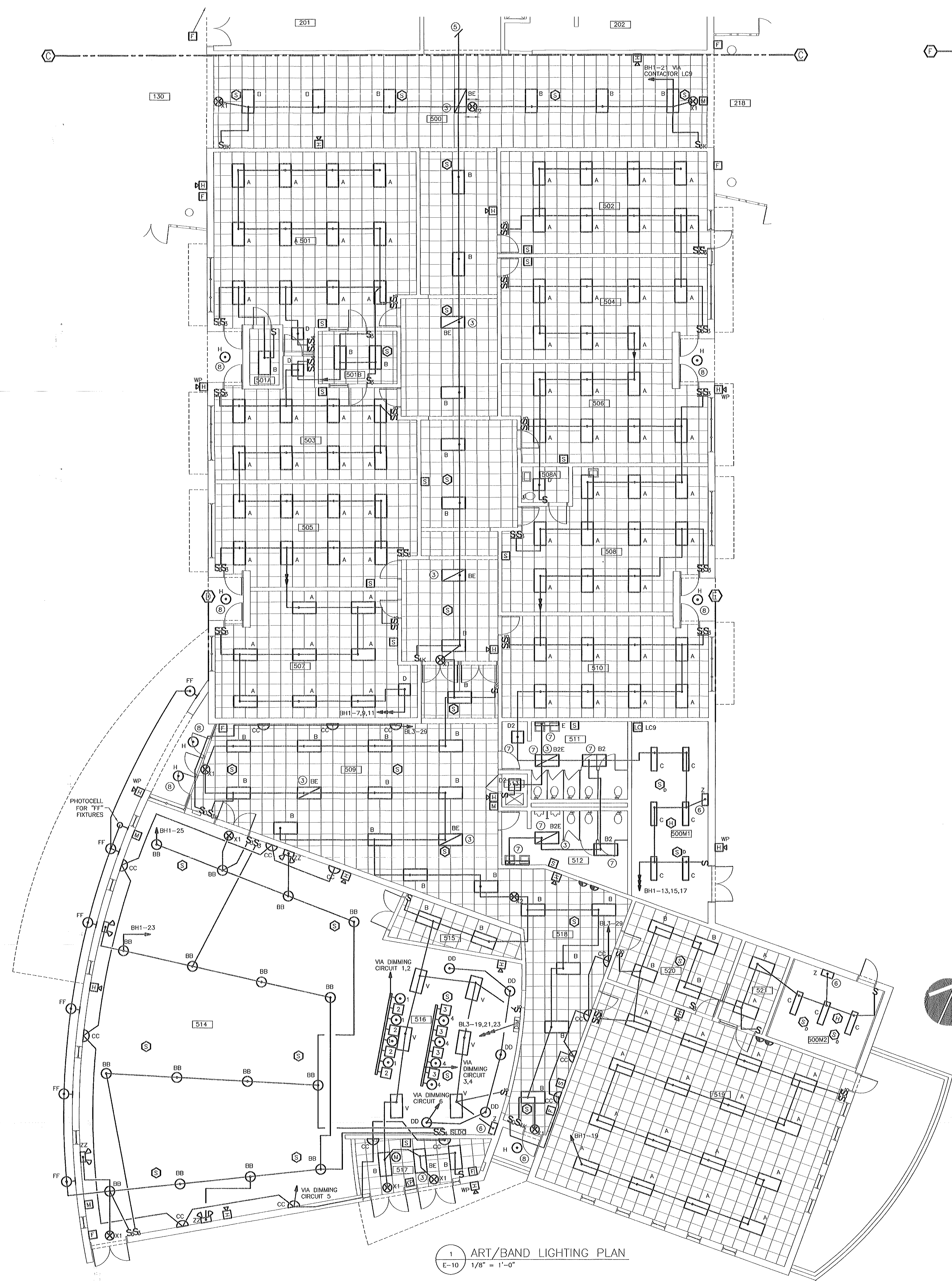
NOTES:

- MOUNT CONTACTORS IN MECHANICAL ROOMS ADJACENT TO THE ELECTRICAL PANELS.
- COIL POWER SHALL BE DERIVED FROM THE SUPPLY SIDE OF THE OUTPUT CONTACTS.
- EMERGENCY OFF PUSHBUTTON SHALL BE AN OVERRIDE SWITCH TO ALL CIRCUITS ROUTED THROUGH THE CONTACTOR. COORDINATE NUMBER OF POLES AS REQUIRED FROM THE PLANS.
- MOUNT EMERGENCY OFF PUSHBUTTON BESIDE DOOR TO ROOM AT +48" AFF. MOUNT KEYED SWITCH AT THE DEMO DESK, UNLESS OTHERWISE NOTED ON THE PLANS.
- KEYED SWITCH SHALL BE USED BY THE TEACHER TO ACTIVATE POWER TO THE DEVICES IN THE ROOM, AND EMERGENCY OFF BUTTON SHALL BE USED TO SHUT DOWN ALL CIRCUITS ROUTED THROUGH THE CONTACTOR.

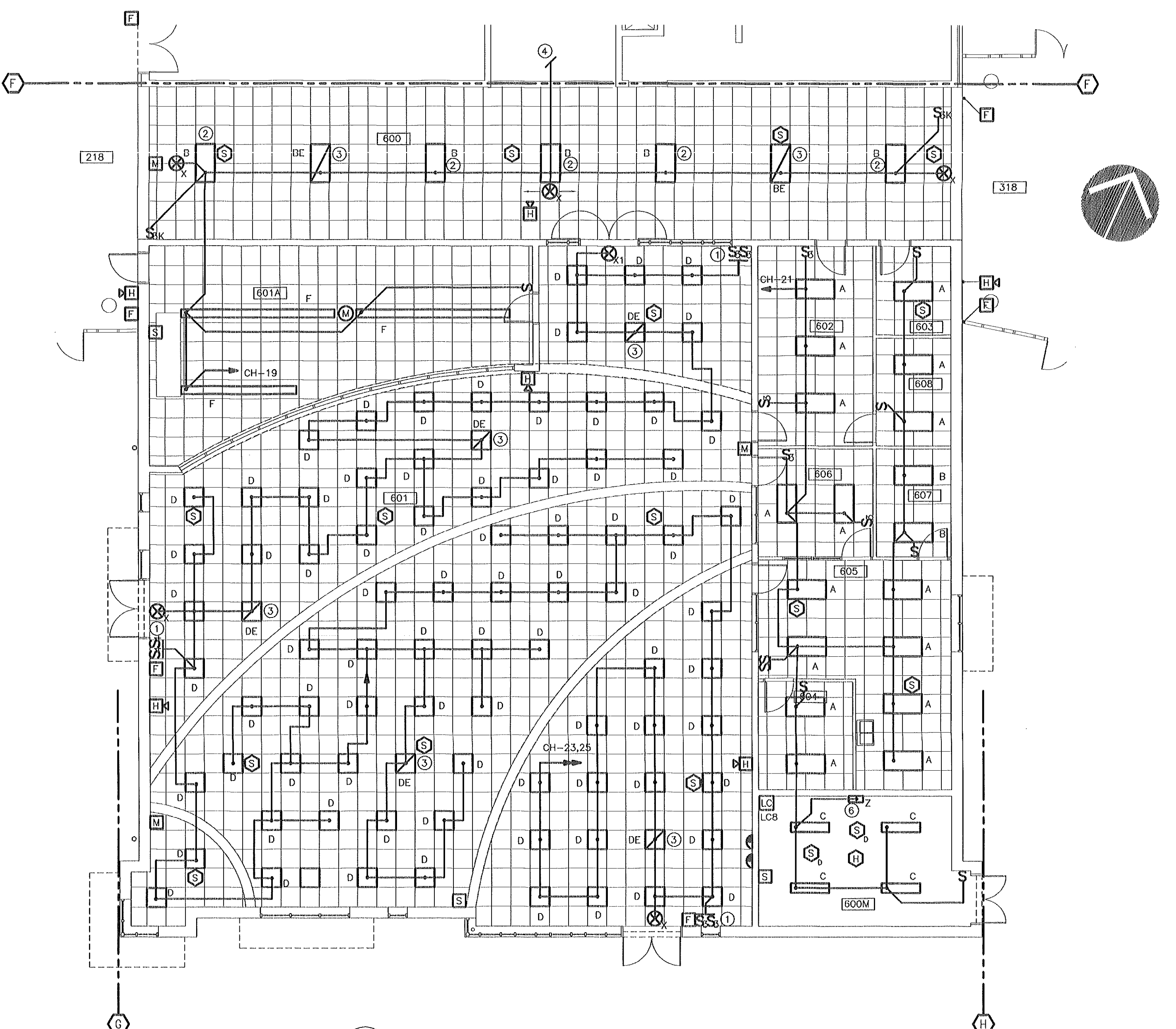
EMERGENCY SHUT-OFF DETAIL
NOT TO SCALE

RECORD DRAWINGS FEBRUARY 1998

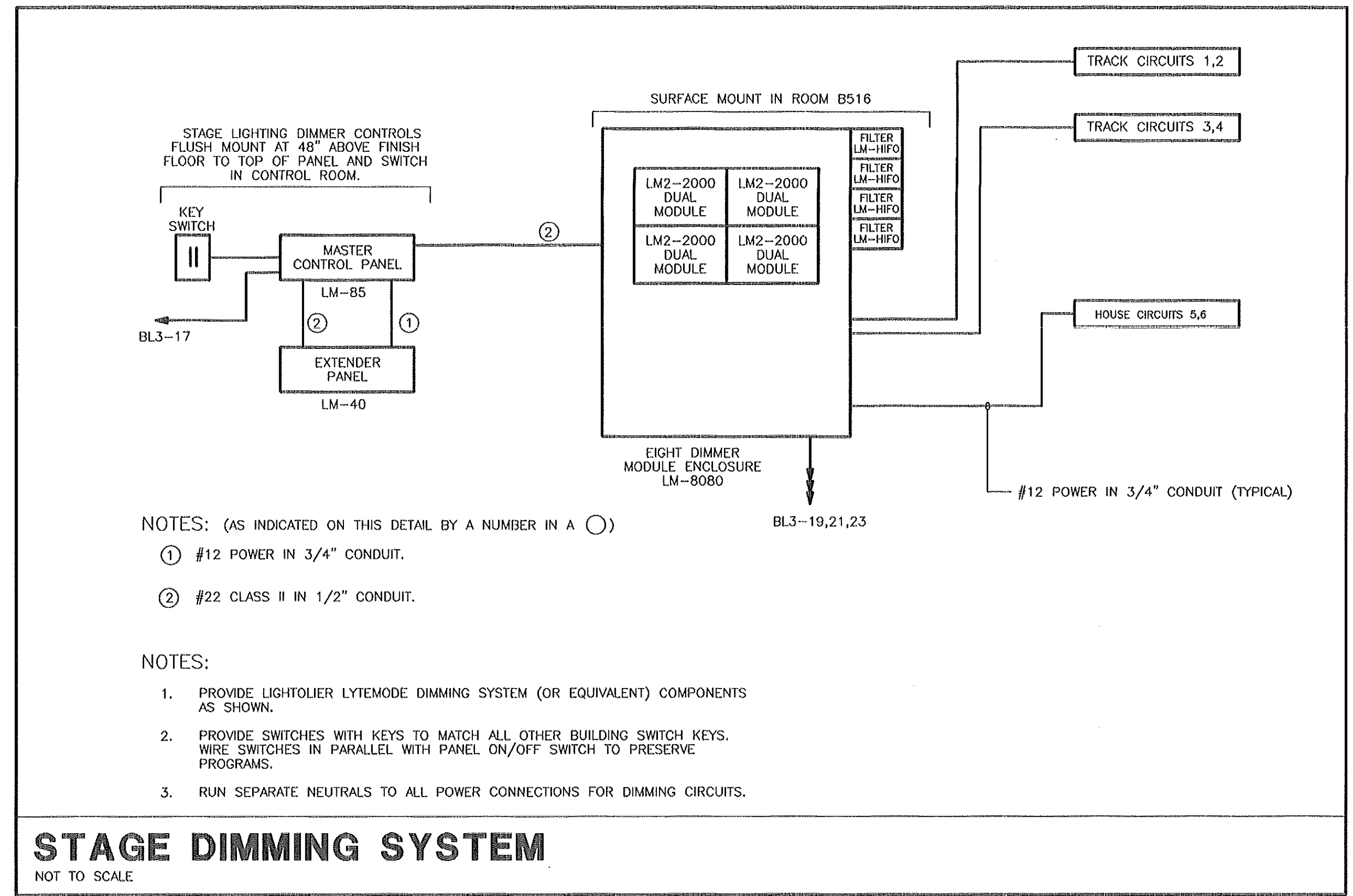
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1 ART/BAND LIGHTING PLAN
E-10 1/8" = 1'-0"



2 MEDIA CENTER LIGHTING PLAN
E-10 1/8" = 1'-0"



- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- HALF THE FIXTURES IN 601 SHALL BE SWITCHED WITH ONE SWITCH AND ON ONE CIRCUIT AND THE OTHER FIXTURES SHALL BE SWITCHED ON THE SECOND SWITCH AND THE SECOND CIRCUIT.
 - SWITCH CORRIDOR FIXTURES IN CORRIDOR 600 THROUGH CONTACTOR LCB LOCATED IN MECHANICAL ROOM 600M2.
 - NIGHT LIGHT, WIRE AHEAD OF THE SWITCH.
 - SEE SHEET E-6 FOR CONTINUATION.
 - SEE SHEET E-4 FOR CONTINUATION.
 - INSTALL ONE (1) TYPE "Z" FIXTURE, SURFACE MOUNTED TO WALL AT +10" A.F.F.
 - SWITCH TOILET FIXTURES IN ROOMS 511 AND 512 VIA CONTACTOR LCB9 WITH THE CORRIDOR LIGHTS.
 - CIRCUIT FIXTURE ON BH-5 VIA CONTACTOR LCB3.

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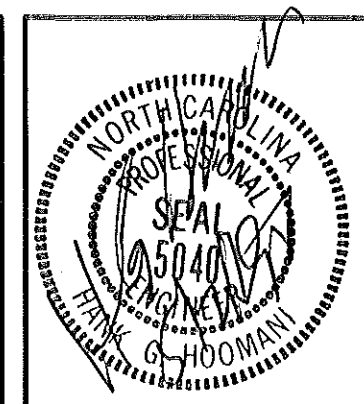
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RECORD DRAWINGS: FEBRUARY 1998

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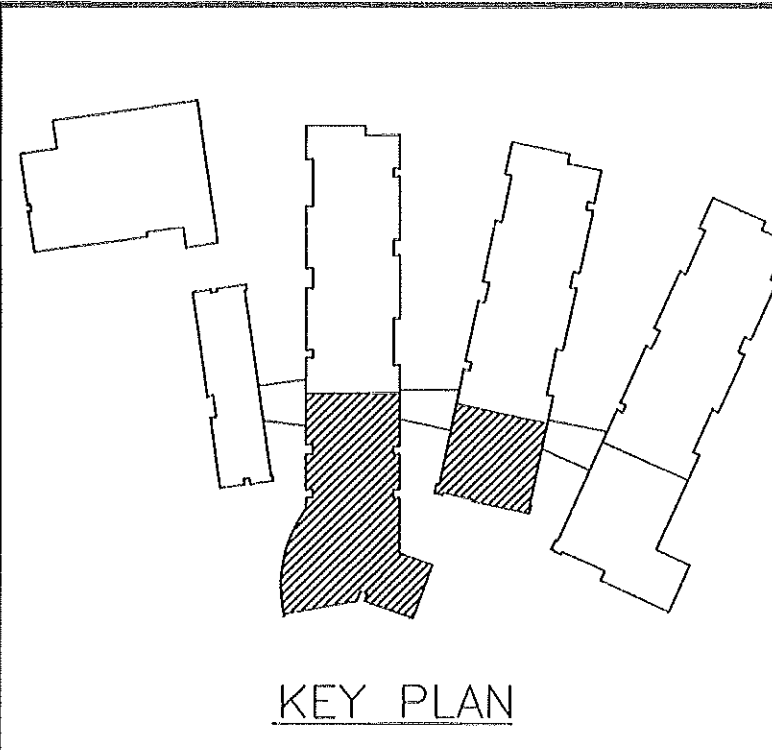


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Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerilo**
Project Engineer: **J. Kevin Mason**
drawn by: **Wynn Britt**
checked by: **Hank G. Hoomani**

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New Havelock Middle School

Craven County
North Carolina

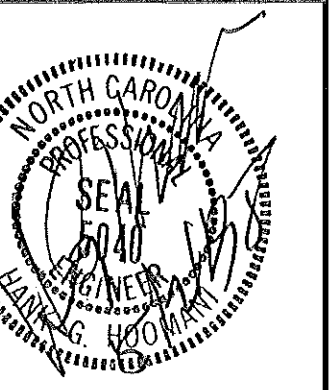
project title	
LIGHTING PLAN	1/8" = 1'-0"
sheet title	scale:
9502.00 PDC #95045 project no.	sheet no. 10 of 20
1/15/96 date	E-10

released for construction: 1/15/96

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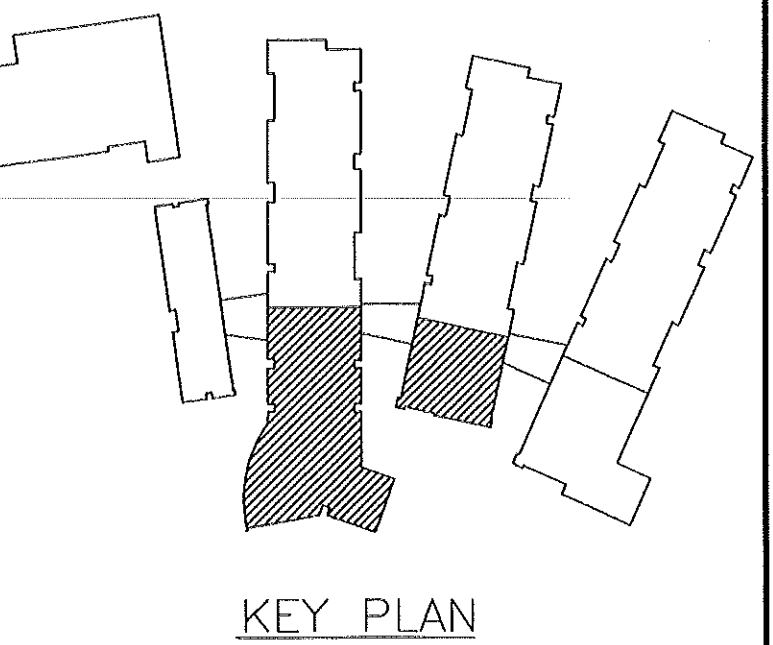


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New Havelock Middle School

Craven County
North Carolina

project title

POWER PLAN

sheet title

9502.00
PDC #95045
project no.

1/15/96
date

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

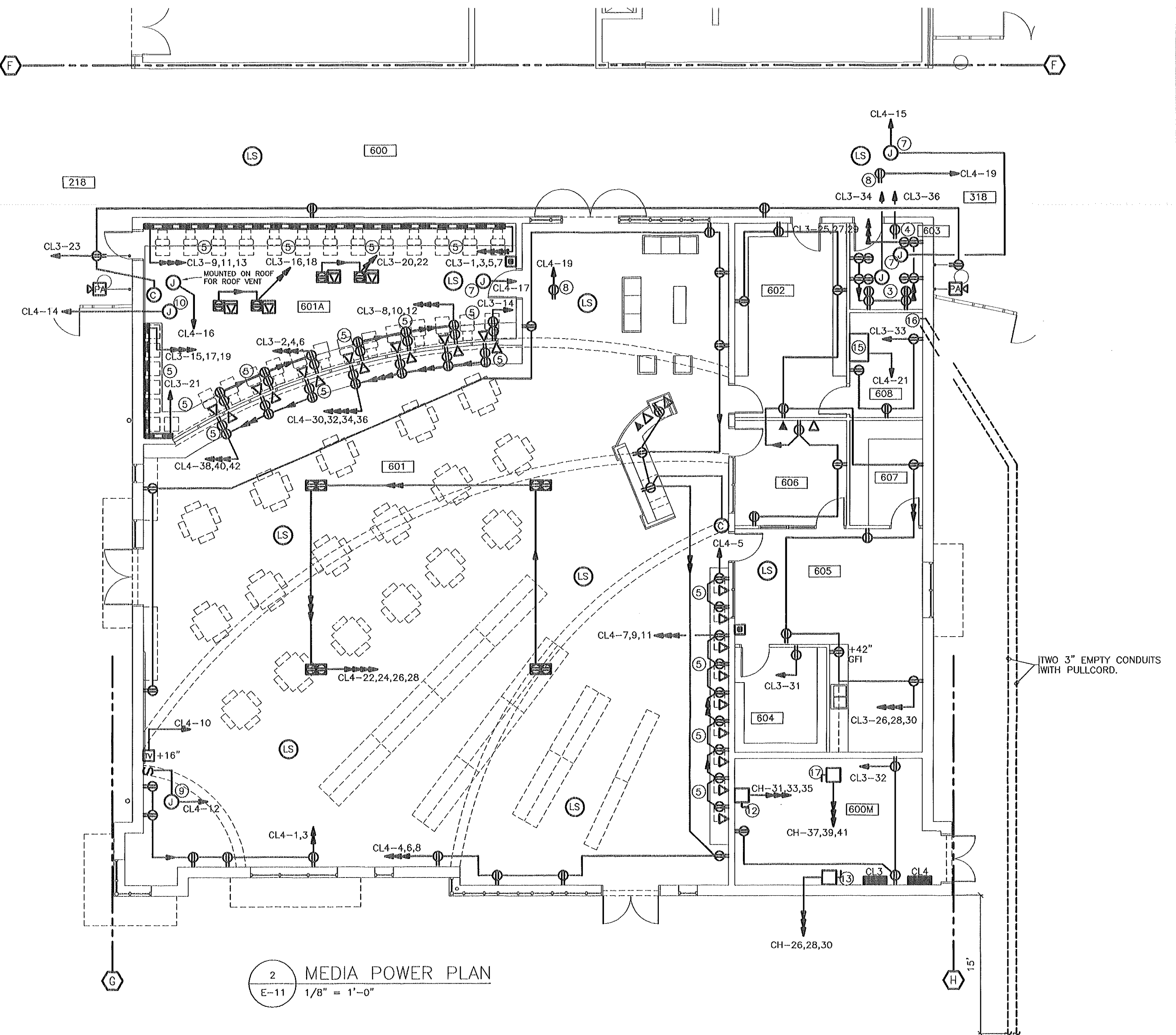
sheet no. 11 of: 20

sheet no. **E-11**

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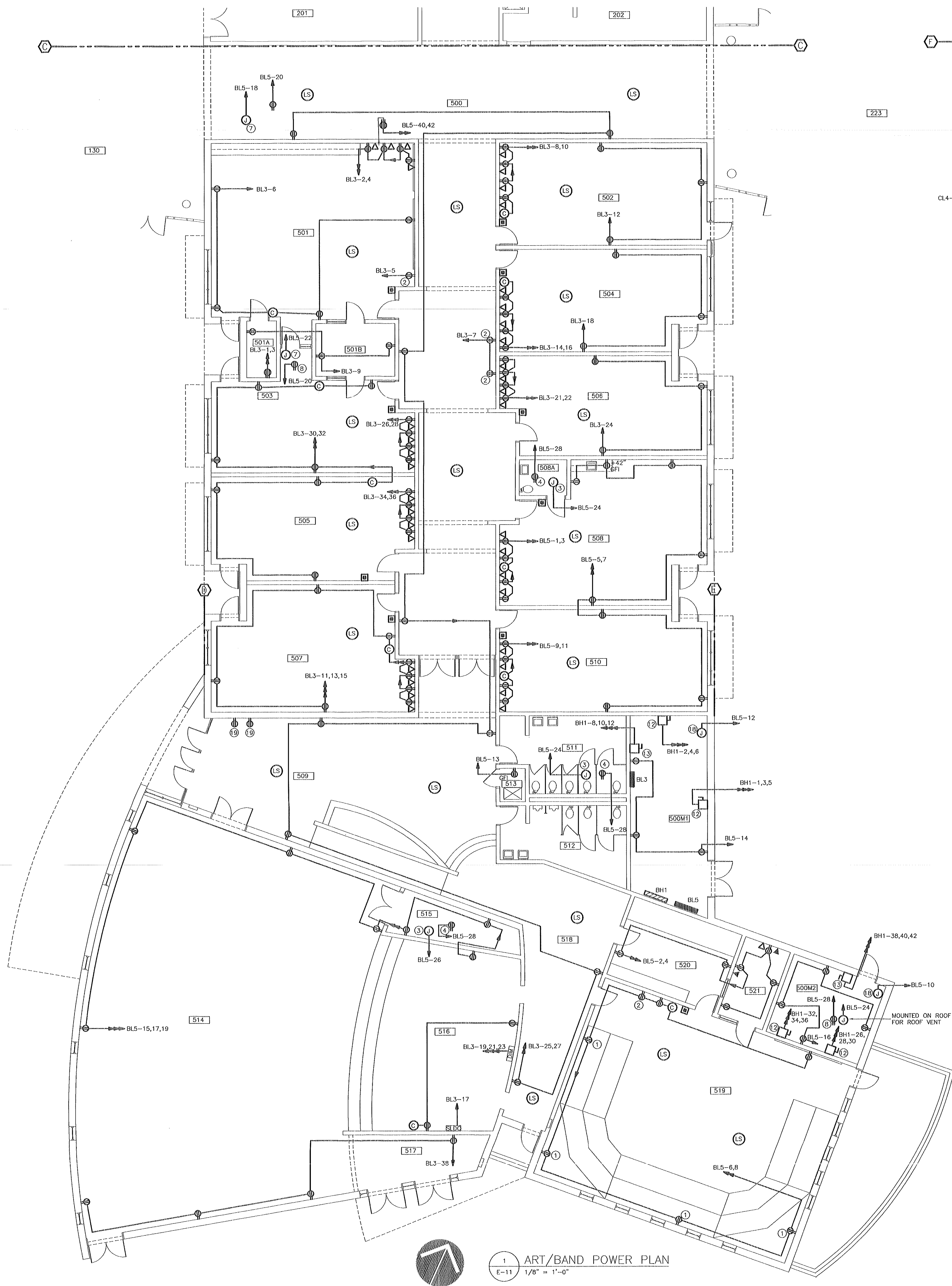
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2 MEDIA POWER PLAN
E-11 1/8" = 1'-0"

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- 1 MOUNT RECEPTACLE AT +16" ABOVE THE PLATFORM RISER SURFACE.
- 2 COORDINATE EXACT LOCATION OF RECEPTACLE FOR ELECTRIC WATER COOLER WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.
- 3 WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 4 WEATHERPROOF ROOF MOUNTED GFI DUPLEX RECEPTACLE FOR SERVICING ROOF MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 5 MOUNT ALL DEVICES, OUTLETS, AND WIREMOLD AT THIS CASEWORK AT +24" A.F.F. SO THAT DEVICES ARE LOCATED BELOW COUNTERTOP.
- 6 60 AMP, 2 POLE, 240 VOLT, NEMA 3R RATED, WEATHERPROOF, GFI, DUPLEX RECEPTACLE FOR KILN.
- 7 WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 8 ROOF MOUNTED GFI, WEATHERPROOF, DUPLEX RECEPTACLE FOR SERVICING ROOF MOUNTED EQUIPMENT.
- 9 JUNCTION BOX FOR MOTORIZED PROJECTION SCREEN. COORDINATE EXACT LOCATION WITH THE ARCHITECT. CONTROL WITH WALL MOUNTED SWITCH, AS SHOWN.
- 10 JUNCTION BOX FOR AHU-10, LOCATED IN ROOM 601A. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 11 JUNCTION BOX FOR MOTORIZED DAMPER. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
- 12 480 VOLT, 30 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AHU-10. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
- 13 SAME AS 12 ONLY FOR UNIT HEATER.
- 14 JUNCTION BOX FOR UNIT HEATER.
- 15 PA/TELEPHONE SYSTEM HEAD-END EQUIPMENT. ALL PA CONDUITS RUN BACK TO THIS POINT.
- 16 STUB TWO (2) 3" CONDUITS FROM THIS LOCATION TO 15' BEYOND THE BUILDING PERIMETER. INSTALL PULLCORDS AND CAP, FOR FUTURE TELECOMMUNICATIONS/CABLE TV ENTRANCE.
- 17 SAME AS 13 ONLY FOR DUCT HEATER.
- 18 JUNCTION BOX FOR CONTROLS.
- 19 ADD TWO RECEPTACLES IN LOBBY 509 FOR TWO NEW ELECTRIC WATER COOLERS. CIRCUIT ON BL5-30. COORDINATE LOCATION WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.



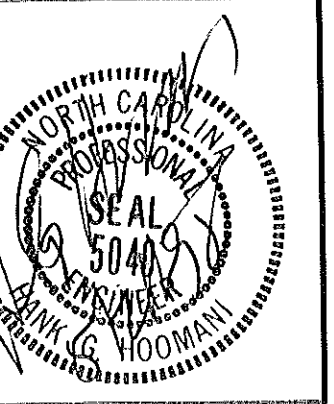
1 ART/BAND POWER PLAN
E-11 1/8" = 1'-0"

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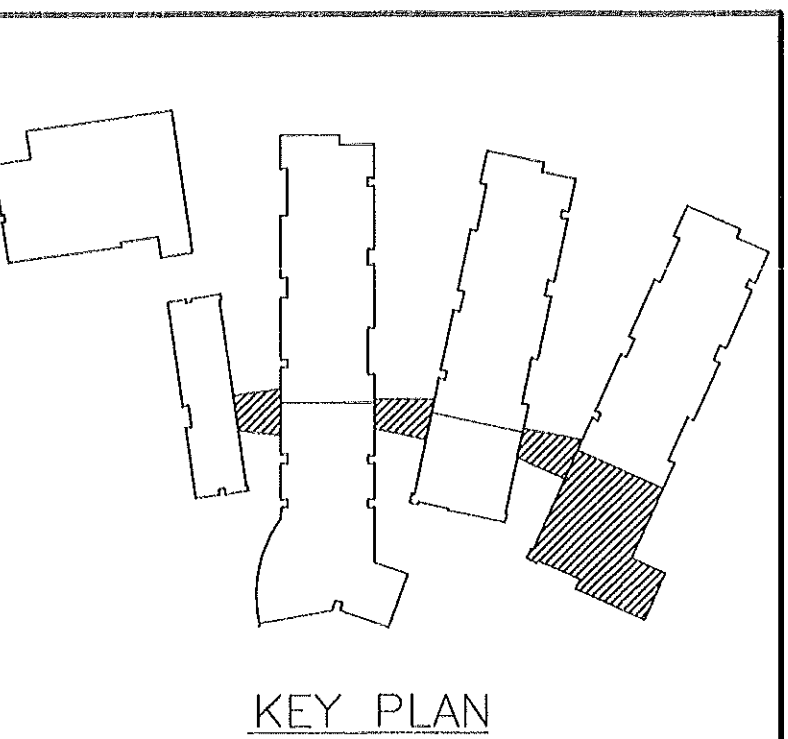


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New Havelock Middle School

Craven County
North Carolina

project title

POWER PLAN

sheet title

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

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PDC #95045
project no.

sheet no. 12 of: 20

1/15/96
date

sheet no. **E-12**

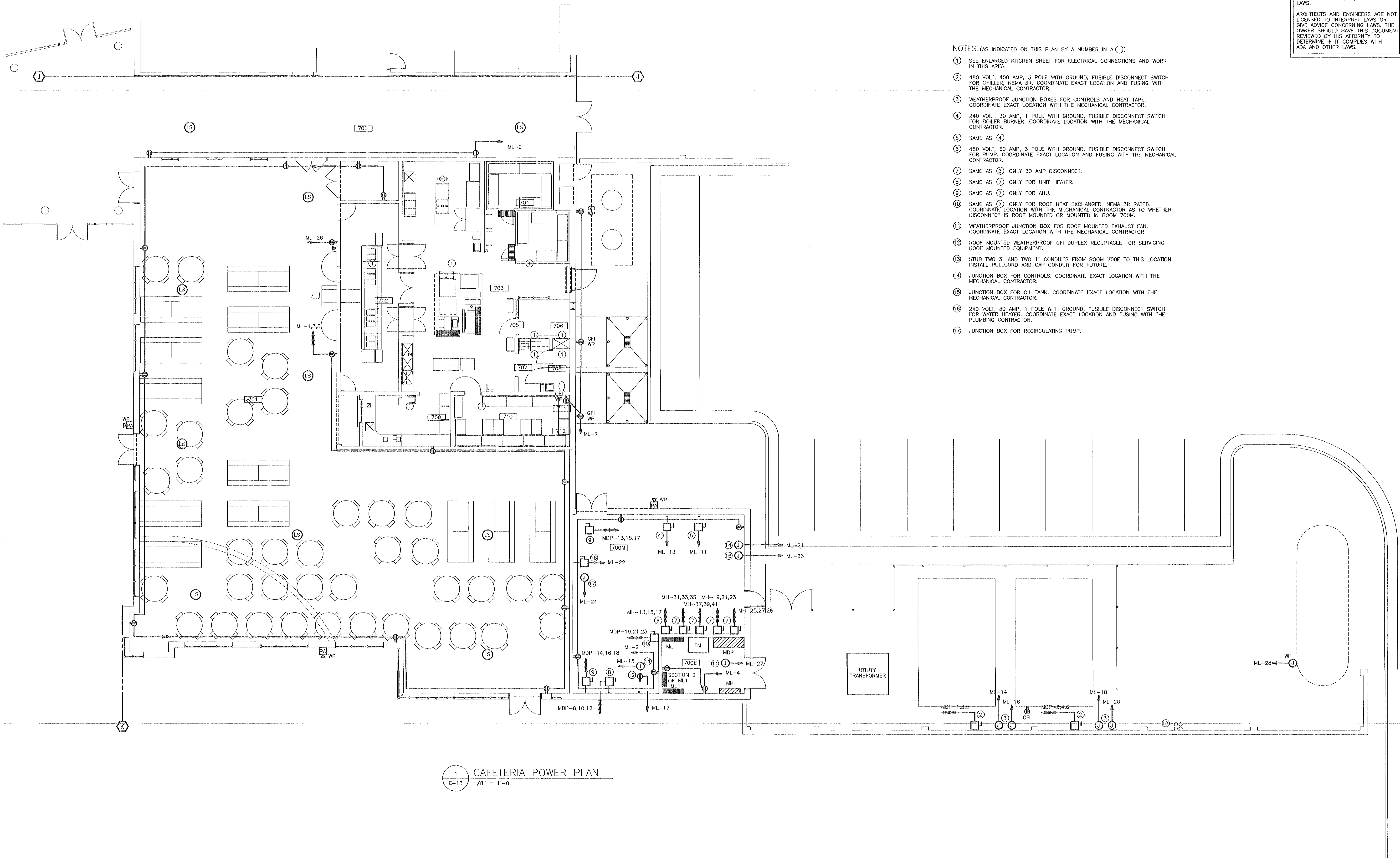
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NOTE:
1. WIRE ALL INNER LAMPS OF ALL FOUR LAMP FIXTURES LOCATED IN CAFETERIA 701 THROUGH LIGHTING CONTACTOR LC16. THIS IS TO BE DONE AHEAD OF ALL ROOM SWITCHES.

- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
1. LIGHT FIXTURES IN ROOM 701 ARE TO BE DOUBLE SWITCHED, WITH INNER LAMPS CONTROLLED BY ONE SWITCH AND ON ONE CIRCUIT, AND OUTER LAMPS ON THE SECOND SWITCH AND SECOND CIRCUIT. STAGE AREA (LOWER LEFT CORNER OF ROOM) IS TO BE SWITCHED ON ITS OWN SWITCH. BALANCE FIXTURES TO BALANCE LOAD.
 2. THREE 1500 WATT SLIDE DIMMERS WITH PRESET, TO CONTROL THREE SECTIONS OF TRACK LIGHTS.
 3. NIGHT LIGHT. WIRE AHEAD OF SWITCH.
 4. SEE SHEET E-8 FOR CONTINUATION.
 5. FIXTURE TYPE "Z" SURFACE MOUNTED TO WALL AT +11' ABOVE FINISHED FLOOR.

1 CAFETERIA LIGHTING PLAN
E-12 1/8" = 1'-0"



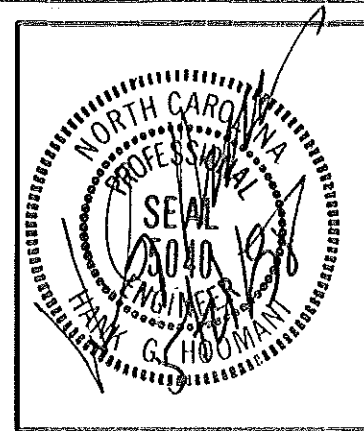
1 CAFETERIA POWER PLAN
E-13 1/8" = 1'-0"

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- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ① SEE ENLARGED KITCHEN SHEET FOR ELECTRICAL CONNECTIONS AND WORK IN THIS AREA.
 - ② 480 VOLT, 400 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR CHILLER, NEMA 3R. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
 - ③ WEATHERPROOF JUNCTION BOXES FOR CONTROLS AND HEAT TAPE. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
 - ④ 240 VOLT, 30 AMP, 1 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR BOILER BURNER. COORDINATE LOCATION WITH THE MECHANICAL CONTRACTOR.
 - ⑤ SAME AS ④
 - ⑥ 480 VOLT, 60 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR PUMP. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
 - ⑦ SAME AS ⑥ ONLY 30 AMP DISCONNECT.
 - ⑧ SAME AS ⑦ ONLY FOR UNIT HEATER.
 - ⑨ SAME AS ⑦ ONLY FOR AHU.
 - ⑩ SAME AS ⑦ ONLY FOR ROOF HEAT EXCHANGER. NEMA 3R RATED. COORDINATE LOCATION WITH THE MECHANICAL CONTRACTOR AS TO WHETHER DISCONNECT IS ROOF MOUNTED OR MOUNTED IN ROOM 700M.
 - ⑪ WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
 - ⑫ ROOF MOUNTED WEATHERPROOF GFI DUPLEX RECEPTACLE FOR SERVICING ROOF MOUNTED EQUIPMENT.
 - ⑬ STUB TWO 3" AND TWO 1" CONDUITS FROM ROOM 700E TO THIS LOCATION. INSTALL PULLCORD AND CAP CONDUIT FOR FUTURE.
 - ⑭ JUNCTION BOX FOR CONTROLS. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
 - ⑮ JUNCTION BOX FOR OIL TANK. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
 - ⑯ 240 VOLT, 30 AMP, 1 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.
 - ⑰ JUNCTION BOX FOR RECIRCULATING PUMP.

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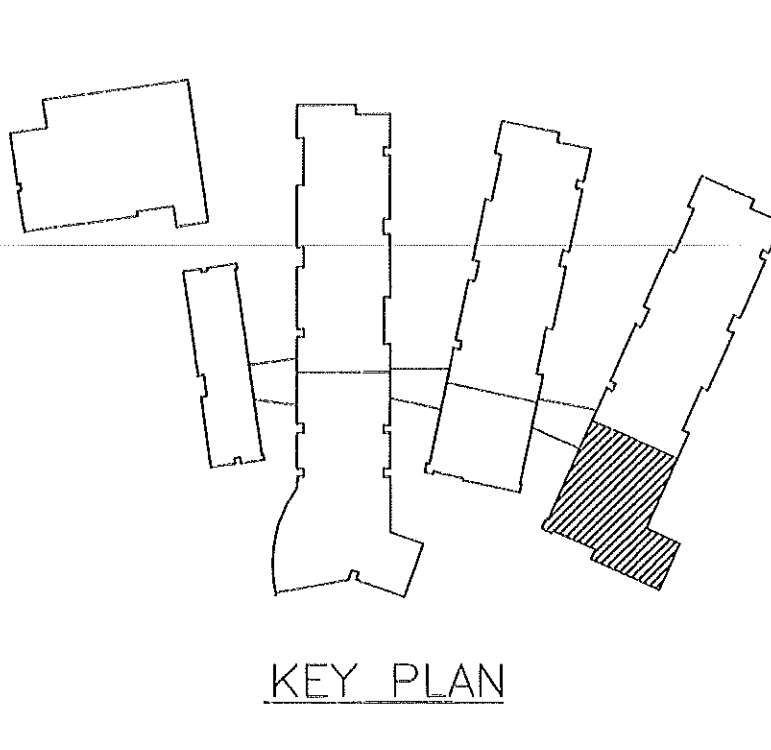


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New Havelock Middle School

Craven County
North Carolina

project title	
POWER PLAN	
sheet title	
9502.00 PDC #95045 project no.	sheet no. 13 of: 20
1/15/96 date	sheet no. E-13

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④ FOR CONTINUATION SEE SHEET E-2. CIRCUIT AND SWITCH CANOPY AND EXTERIOR FIXTURES WITH FIXTURES ON SHEET E-2.

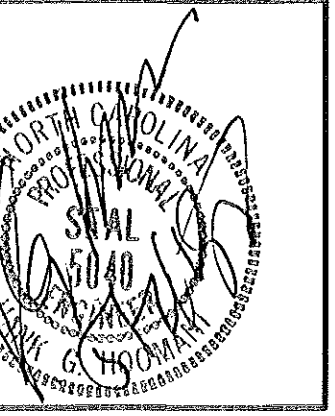
$$1/8'' = 1' - 0''$$

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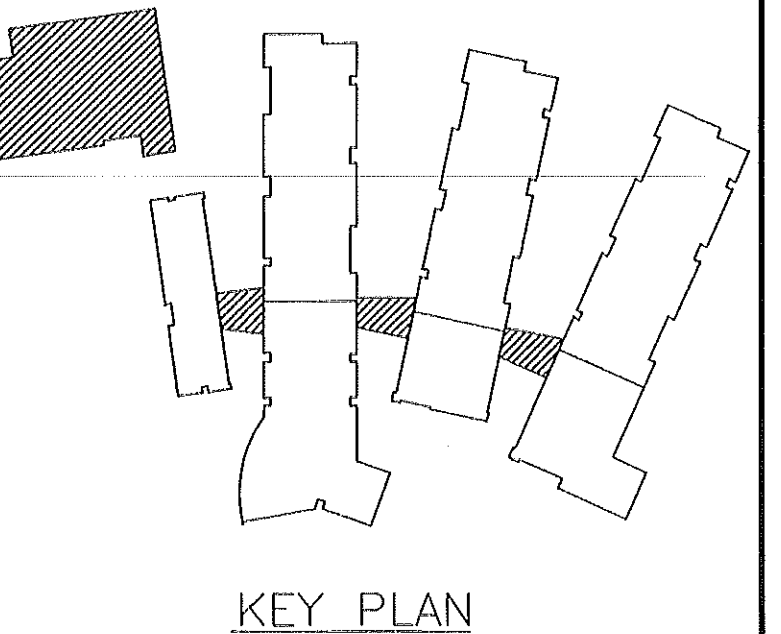


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project no.

sheet no. 15 of: 20

1/15/96
date

sheet no. **E-15**

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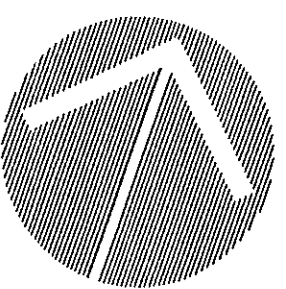
NOTE:

1. UNDER ALTERNATE M-2, DISCONNECTS AND BREAKERS SERVING MECHANICAL UNITS SHALL BE PROVIDED. SEE SHEET M-1 FOR UNIT DESCRIPTION.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

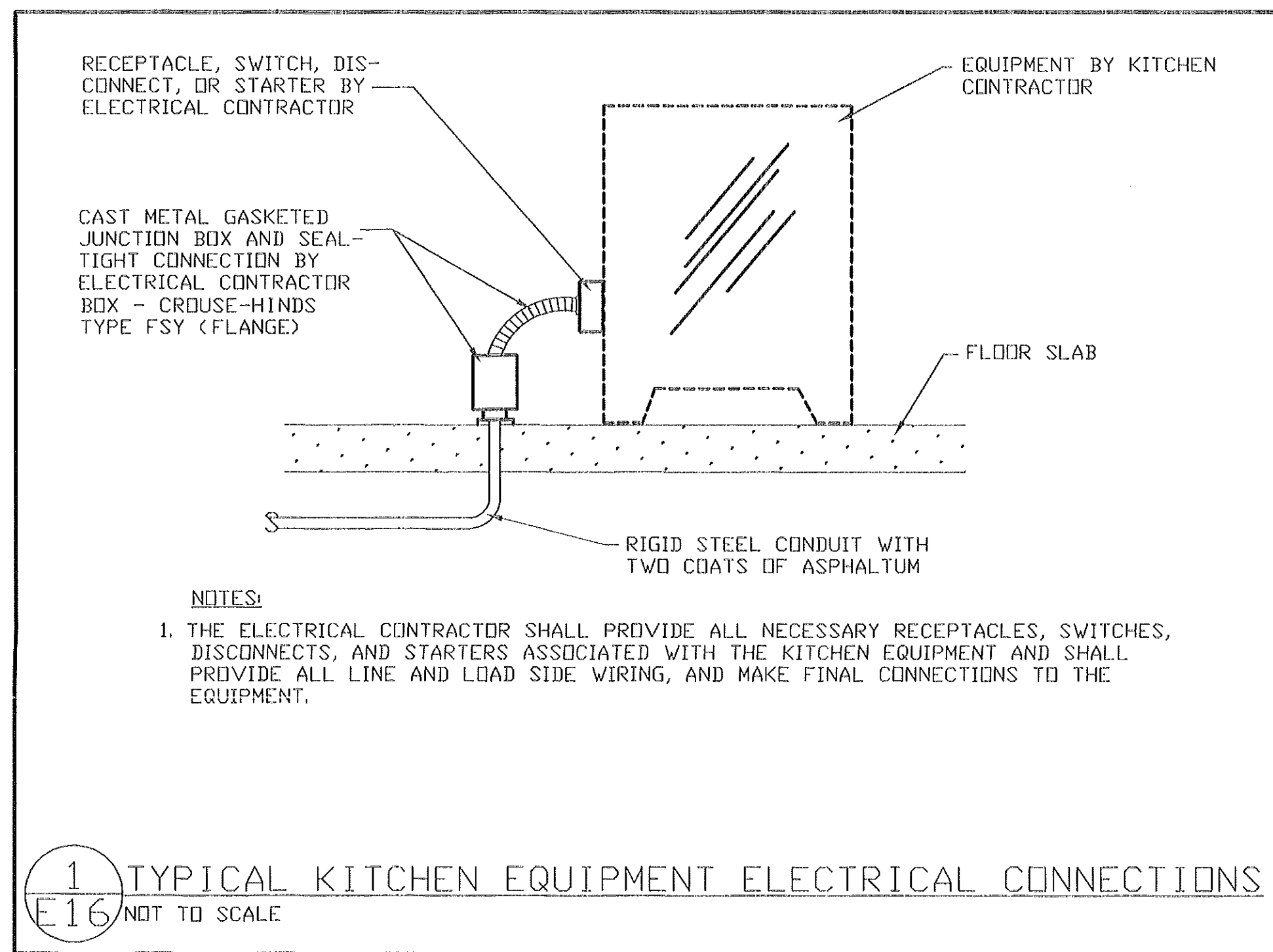
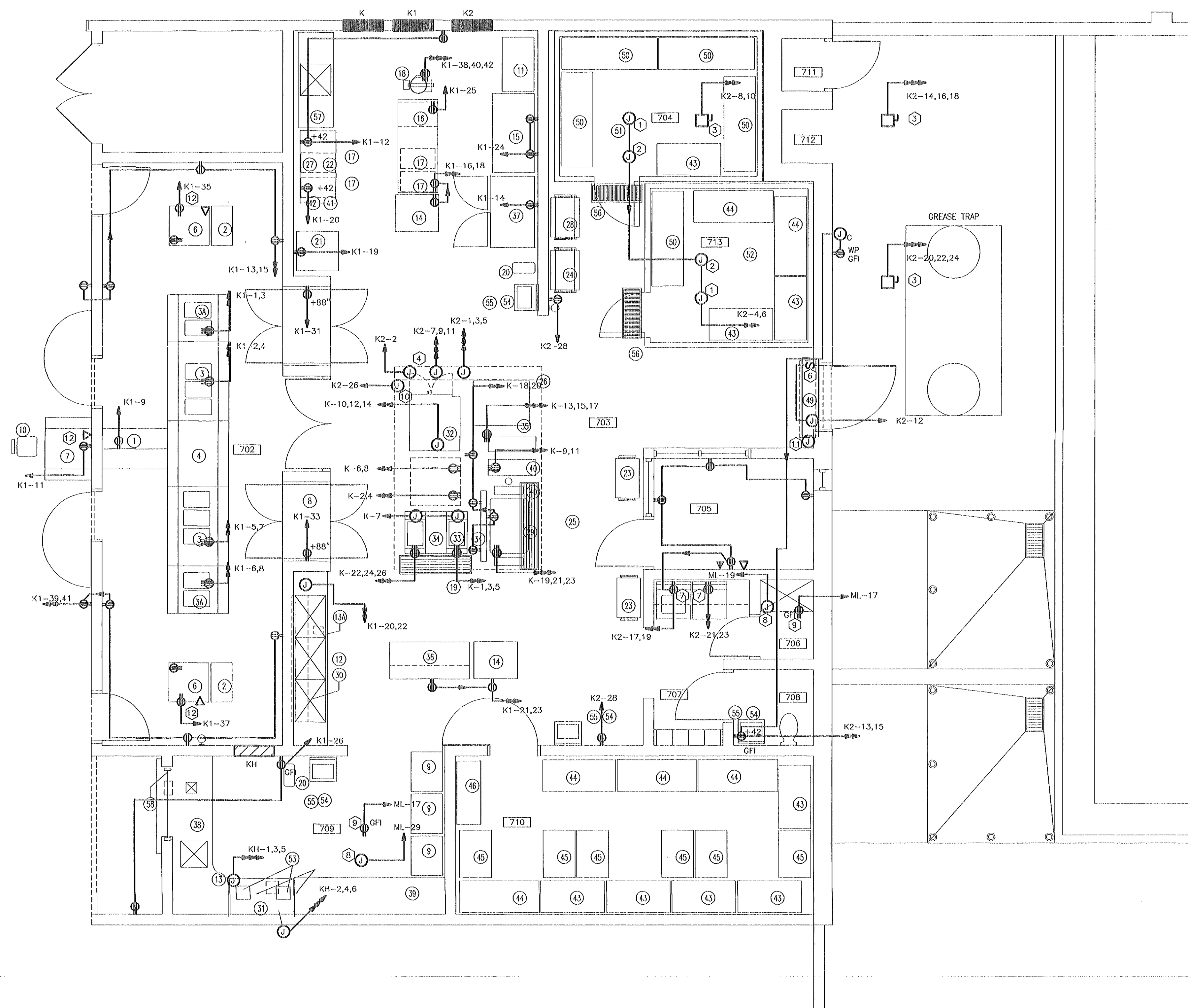
1. COORDINATE EXACT LOCATION OF RECEPTACLE FOR ELECTRIC WATER COOLER WITH THE PLUMBING CONTRACTOR SO THAT THE CORD DOES NOT SHOW.
2. JUNCTION BOX FOR SECURITY SYSTEM KEYPAD, MOUNTED AT +48" AFF. COORDINATE EXACT LOCATION WITH THE OWNER. INSTALL 1" CONDUIT STUBBED OUT ABOVE THE LAY-IN CEILING WITH PULLCORD.
3. PROVIDE CLOCK WITH WIREGUARD.
4. COORDINATE EXACT LOCATION OF BACKBOARD HOIST MOTOR JUNCTION BOX WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL THE BACKBOARD AND HOIST ASSEMBLY AND SHALL FURNISH THE KEY-OPERATED SWITCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS.
5. SIX KEY OPERATED SWITCHES FOR BACKBOARD HOISTS. PROVIDED BY THE GENERAL CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE NOTE 4.
6. STUB ONE 1 1/2" CONDUIT WITH PULLCORD FROM THIS JUNCTION BOX TO ABOVE THE CEILING IN THE ELECTRICAL ROOM. INSTALL PULLCORD AND CAP FOR FUTURE SCOREBOARD. MOUNT JUNCTION BOX AT +15" AFF.
7. 240 VOLT, 60 AMP, 2 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR ELECTRIC BLEACHERS. COORDINATE EXACT LOCATION AND FUSING WITH THE EQUIPMENT SUPPLIER.
8. WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
9. WEATHERPROOF DUPLEX GFI RECEPTACLE FOR SERVICING ROOF MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
10. 480 VOLT, 30 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AIR HANDLING UNIT. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
11. SAME AS 10 ONLY FOR UNIT HEATER.
12. JUNCTION BOX FOR CONTROLS. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
13. 480 VOLT, 100 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE EXACT LOCATION AND FUSING WITH THE PLUMBING CONTRACTOR.
14. NOT USED
15. STUB ONE 2" CONDUIT FROM THIS LOCATION TO MECHANICAL ROOM 100M FOR SECURITY SYSTEM CONNECTION BETWEEN BUILDINGS BY THE OWNER. INSTALL PULLCORD IN CONDUIT AND CAP.
16. 480 VOLT, 60 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AIR HANDLING UNIT. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
17. 480 VOLT, 100 AMP, 3 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR AIR HANDLING UNIT. COORDINATE EXACT LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
18. SAME AS 16 EXCEPT NEMA 3R AND FOR CONDENSING UNIT.
19. SAME AS 18 EXCEPT 60 AMP, NEMA 3R AND FOR CONDENSING UNIT.
20. 240 VOLT, 30 AMP, 2 POLE WITH GROUND, FUSIBLE DISCONNECT SWITCH FOR CONDENSING UNIT. NEMA 3R RATED. COORDINATE LOCATION AND FUSING WITH THE MECHANICAL CONTRACTOR.
21. WEATHERPROOF JUNCTION BOX FOR CONTROLS.
22. WEATHERPROOF GFI RECEPTACLE.

1 GYMNASIUM POWER PLAN (BASE BID AND ALTERNATE E-2)
E-15 1/8" = 1'-0"



BASE BID — BID ALTERNATE 2

BID ALTERNATE 2 — BASE BID



- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)
- REFRIGERATOR COILS JUNCTION BOX COORDINATE LOCATION WITH EQUIPMENT SUPPLIER.
 - HEAT TAPE JUNCTION BOX COORDINATE LOCATION WITH EQUIPMENT SUPPLIER.
 - REFRIGERATOR/FREEZER DISC (2) NEMA 3R (1) NEMA 1 COORDINATE FUSING AND LOCATION WITH EQUIPMENT SUPPLIER AND ALL OTHER CONTRACTORS. 60 AMP, DISCONNECTS. COORDINATE LOCATION.
 - COORDINATE LOCATION OF THE KITCHEN EXHAUST FAN AND SHUNT TRIP SWITCH WITH THE MECHANICAL CONTRACTOR. THE ACTIVATED SHUNT TRIP WILL OPEN "K" PANEL MAIN BREAKER. SEE FIRE ALARM, ELECTRICAL PANELS/RISERS AND SPECIFICATIONS FOR THE ANSUL SYSTEM INFORMATION. PROVIDE ALL RELAYS AND CONTRACTORS ETC. FOR A COMPLETE WORKING SYSTEM. TIE THE ANSUL SYSTEM INTO THE FIRE ALARM SYSTEM.
 - ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY SEE KITCHEN EQUIPMENT OUT SHEETS FOR EXACT ELECTRICAL REQUIREMENTS.
 - PROVIDE A 1 POLE, 20 AMP TOGGLE SWITCH FOR A DISCONNECTING MEANS. MOUNT AT FLY FAN.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE CORDS FOR WASHER AND DRYER.
 - WEATHERPROOF JUNCTION BOX FOR ROOF MOUNTED EXHAUST FAN. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR.
 - WEATHERPROOF DUPLEX GFI RECEPTACLE, ROOF MOUNTED FOR SERVICING ROOF EQUIPMENT.
 - JUNCTION BOX FOR HOOD LIGHTS.
 - JUNCTION BOX FOR SECURITY KEYPAD MOUNTED AT +48" A.F.F. STUB ONE (1) 1" CONDUIT OUT ABOVE THE LAY-IN CEILING WITH PULLCORD FROM THIS LOCATION.
 - COORDINATE EXACT LOCATION OF RECEPTACLE AND COMPUTER OUTLET FOR CASHIER STAND WITH THE ARCHITECT PRIOR TO ROUGH IN. THE COMPUTER OUTLET SHALL BE STUBBED OUT ABOVE THE LAY-IN CEILING AT THE ENTRANCE TO THE CAFETERIA.

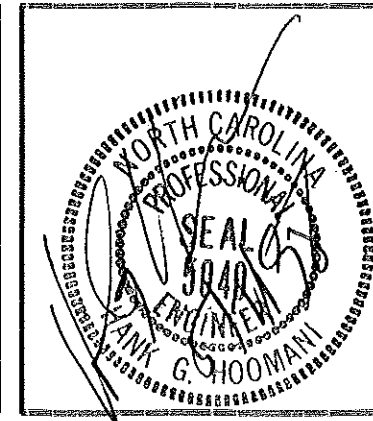
ELECTRICAL KITCHEN EQUIPMENT 5

ITEM	DESCRIPTION	QUANTITY	MANUFACTURER	MODEL NO.	VOLTAGE	PHASE	KW	AMPS	REMARKS
1	HOT TOP TABLE	2	SHELLEYGLAS	KC-36-NU-MOD	120	1	-	15	
2	HOT-COLD COMBO TABLE	2	SHELLEYGLAS	KH4CR-96-NU	208	1	-	29	
3	SOLID TOP TABLE	1	SHELLEYGLAS	KC-74-NU	120	1	-	15	
4	REFRIG. COLD FOOD TABLE	1	SHELLEYGLAS	KCSC-50-NU	120	1	-	7.0	
5	NOT USED								
6	CASHER STAND								
7	SOLID TOP TABLE	3	SHELLEYGLAS	50-ST	120	1	-	15	
8	MOBILE TRAY	2	COLORPOINT	CPM-MTS					
9	STAINLESS STEEL SHELVING	1	METRO	2430NS/63PS					
10	NOT USED								
11	STAINLESS STEEL SHELVING	1	METRO	2442NS/63PS					
12	(3) COMPARTMENT SINK	1	CUSTOM						
13	BOOSTER HEATER	1	HATCO	C-54	480	3	54	65	
13A	SINK HEATER	1	HATCO	3CS-9	208	1	9	43.3	
14	HOLDING PROOFING CABINET	2	WINSTON	HA522	120	1	2.17	18.1	
15	WORK CENTER								
16	BAKERS TABLE								
17	PLASTIC STORAGE BINS								
18	30 QT. MIXER	1	HOBART	D300	120	1		10.7	
19	STAINLESS STEEL TRENCH DRAIN								
20	SPRAY REEL								
21	ICE MAKER & STORAGE BIN	1	SCOTSMAN	MH750/HTB500	120	1		30.0	
22	WORK CENTER								
23	UTILITY CART								
24	UTILITY CART								
25	STAINLESS STEEL TRENCH DRAIN								
26	EXHAUST HOOD W/FIRE SUPP.	1	COORDINATE W/ EQUIP. SUPP.						
27	FOOD PROCESSOR	1	HOBART	FP-100	120	1		6.0	
28	UTILITY CART								
29	TILTING BRAISING PAN WITH FILL	1	CLEVELAND	SEL-40	208	3		50.0	
30	NOT USED								
31	DISH WASH MACHINE	1	CHAMPION	44KB	480	3		40.0	
32	CONVECTION OVEN (2 STACKED)	2	SOUTHBEND	ES-20CC	208	3	12	80.0	
33	WORK CENTER								
34	ELECTRIC FRYER	2	FRYMASTER	FM-H-17SC	208	3	17.0	60.0	
35	STEAMER WITH STAND	1	CLEVELAND	21 CET-16	208	3	16.5	46.0	
36	WORK CENTER W/2 DRAWERS	1	CUSTOM						
37	REFRIGERATED FOOD CABINET	1	DELFIELD	6051-S	120	1		13.5	
38	STAINLESS STEEL DISH...	1	CUSTOM						
39	CLEAN DISH TABLE	1	CUSTOM						
40	6-10 QT. KETTLE WITH STAND	1	CLEVELAND	CKSWE	208	1	4.1	40.0	
41	SLICER	1	HOBART	1712	120	1		20.0	
42	CAN OPENER	1	EDLUND	266	120	1		<5.0	
43	SHELVING								
44	SHELVING								
45	TOP TRACK STORAGE SYSTEM								
46	SHELVING								
47	STATIONARY END UNITS								
48	TRACK SETS								
49	FLY FAN	1	MARS	48CH	120	1		9.8	
50	SHELVING								
51	WALKIN FREEZER	1	W.A. BROWN		120 208-208	1- 1-3		3.0- 16.0-6.8	LIGHTS-COIL-COMPRESSOR
52	WALKIN REFRIGERATOR	1	W.A. BROWN		120 120-208	1- 1-3		3.0- 16.0-4.2	LIGHTS-COIL-COMPRESSOR
53	PANT-LEG STAINLESS DUCT								
54	PAPER TOWEL DISPENSER								
55	SOAP DISPENSER								
56	STAINLESS TRENCH DRAIN								
57	VEGETABLE SINK TABLE								

THE SMITH SINNETT ASSOCIATES, P.A.

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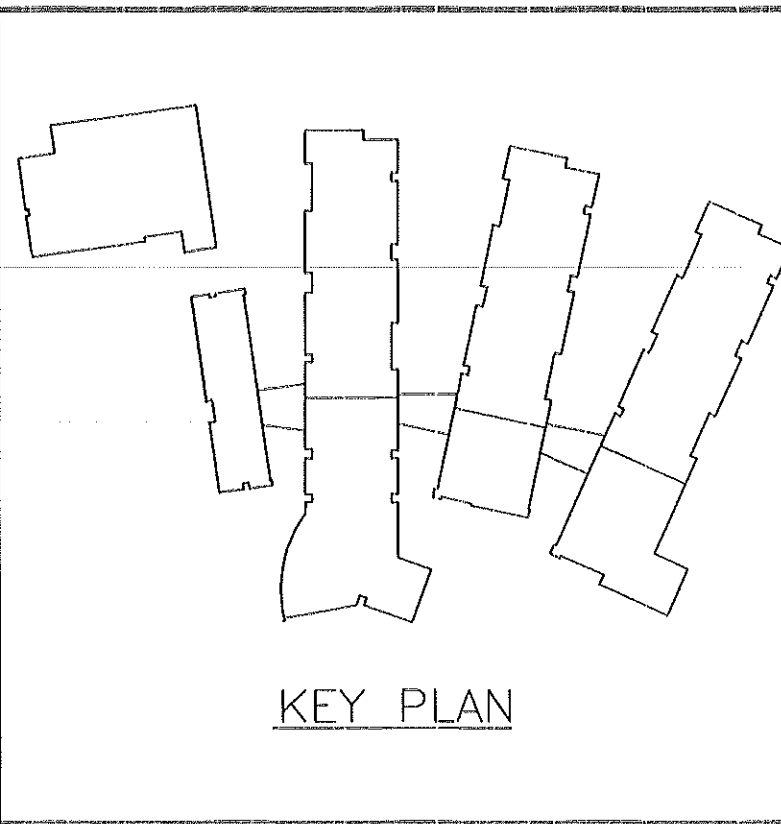


CONSULTING ENGINEERS
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Project Engineer: **J. Kevin Mason**
drawn by: **J. Kevin Mason**
checked by: **Hank G. Hoomanl**

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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

project title

KITCHEN PLAN
sheet title

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

9502.00
PDC #95045
project no.

sheet no. 16 of: 20

1/15/96
date

sheet no. **E-16**

RECORD DRAWINGS: FEBRUARY 1998

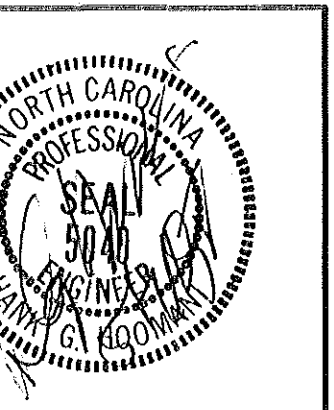
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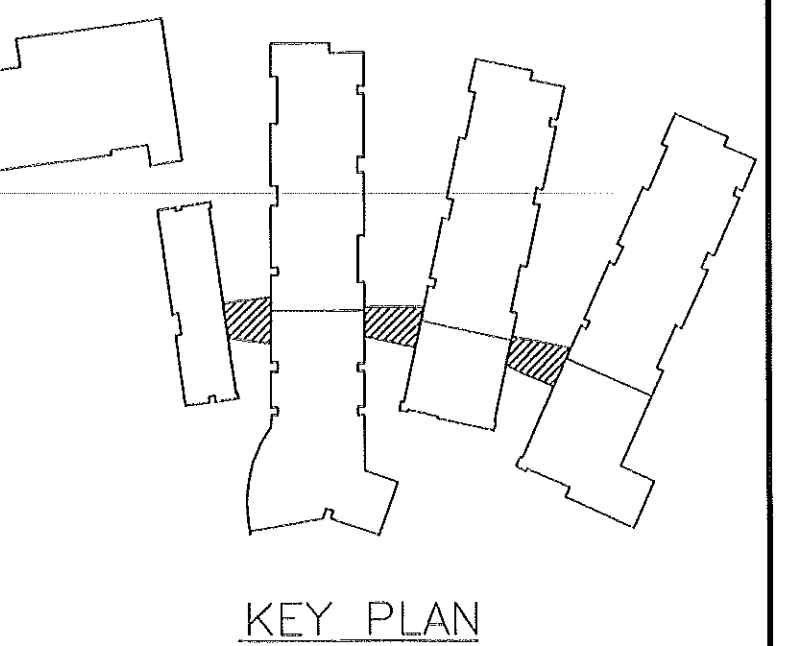


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no.	description	date
Revisions		



New Havelock Middle School

Craven County
North Carolina

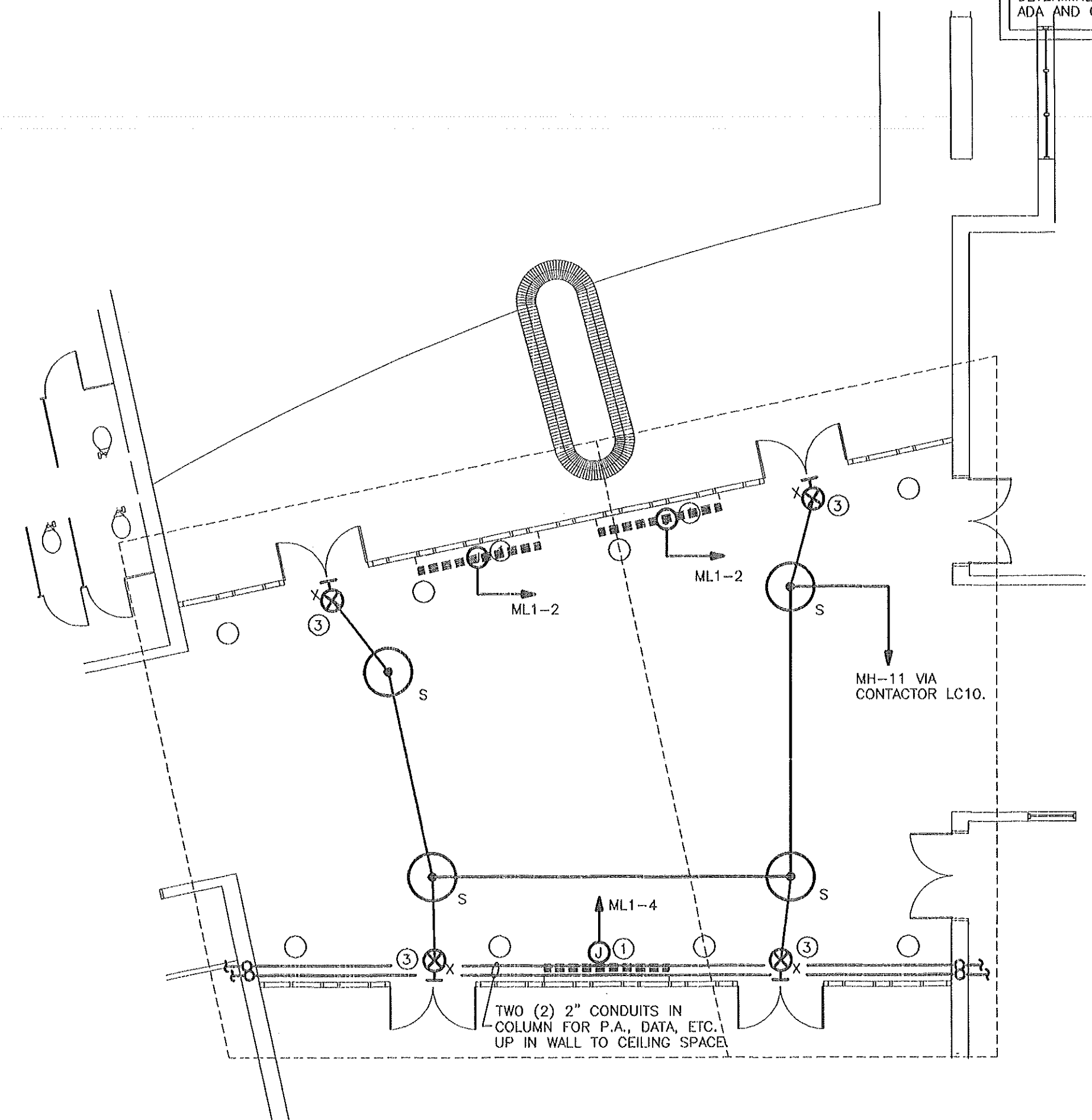
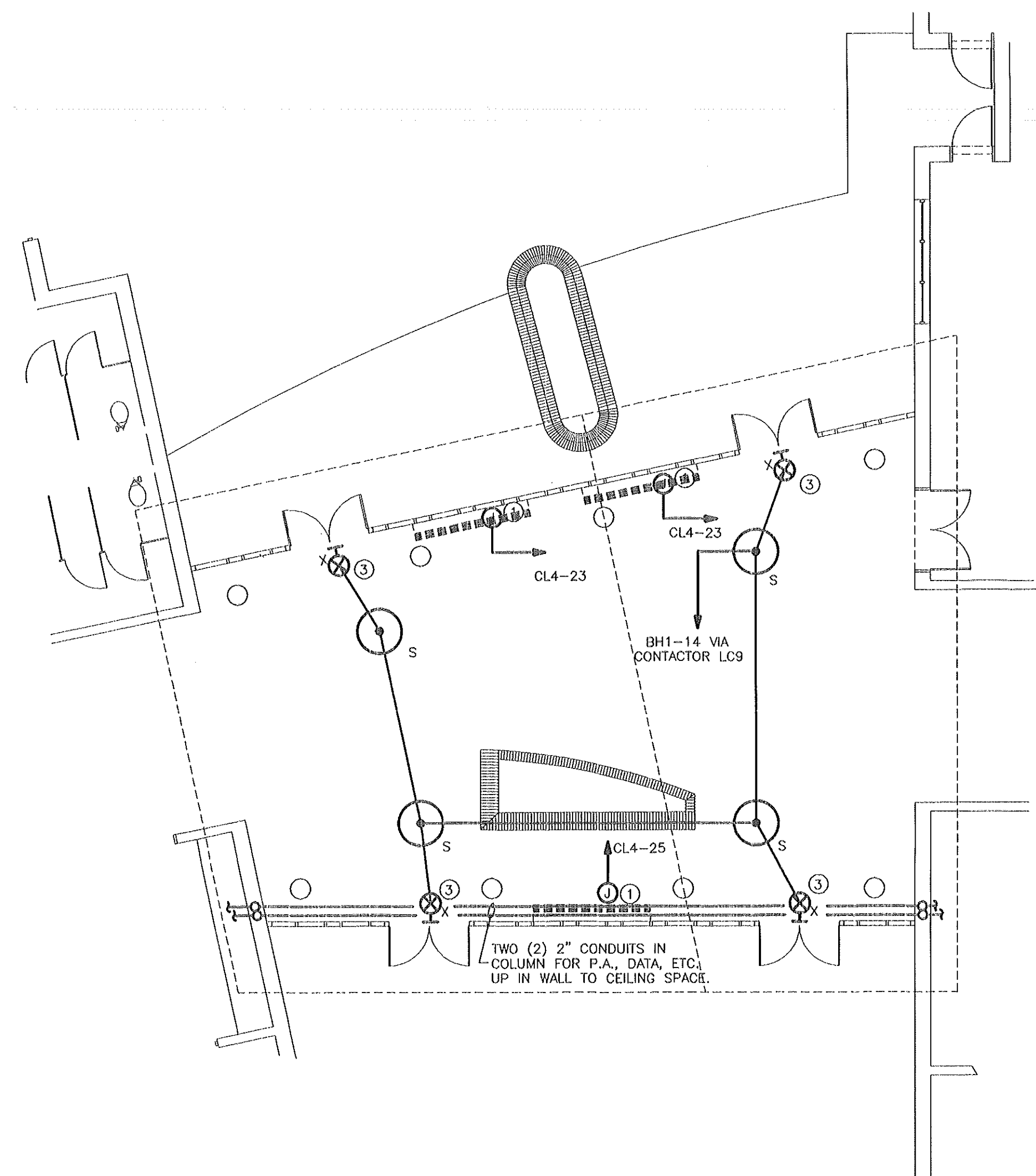
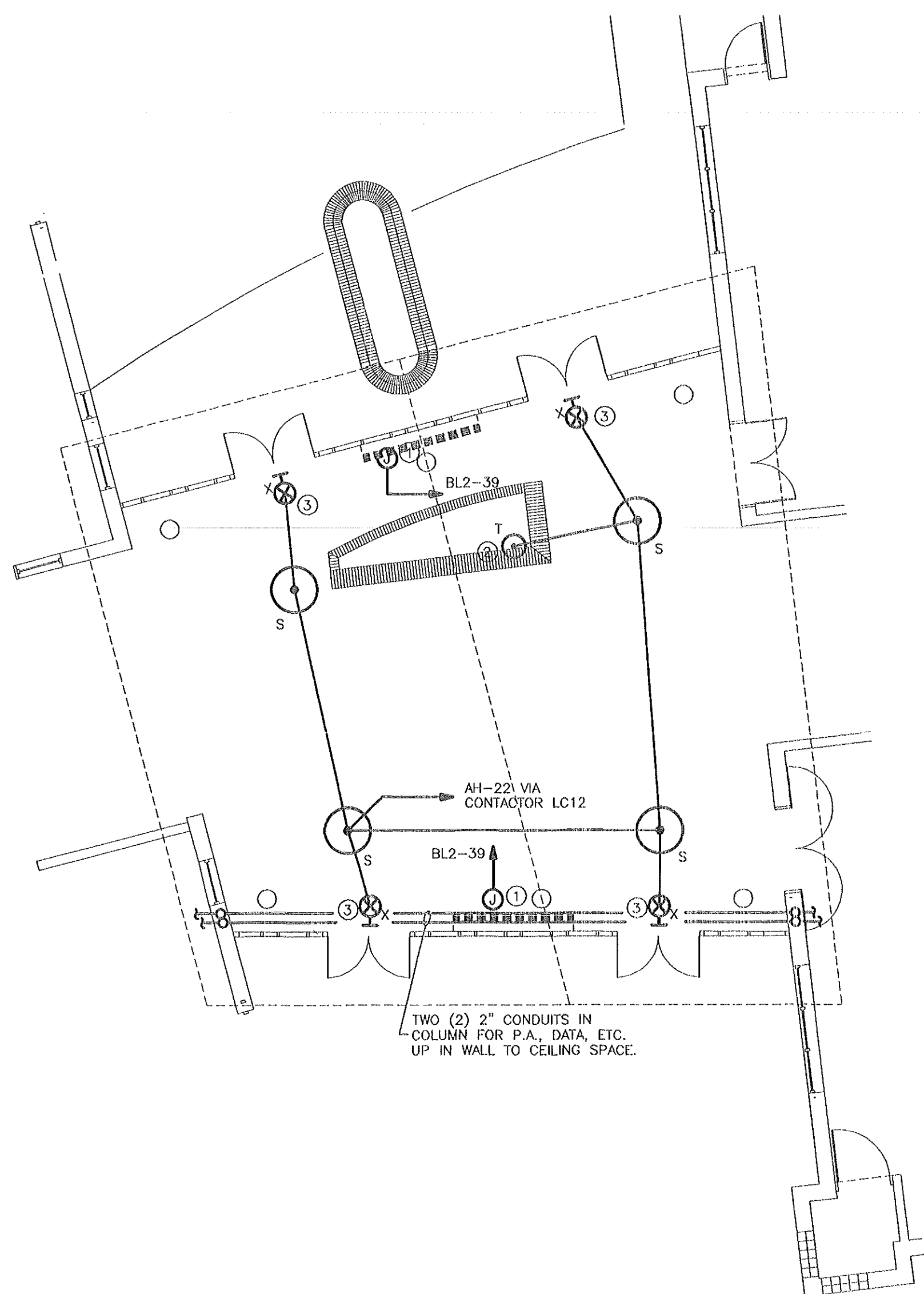
project title

COMMONS AREAS
sheet title
1/8" = 1'-0"
scale:

9502.00
PDC #95045
project no.
sheet no. 17 of: 20

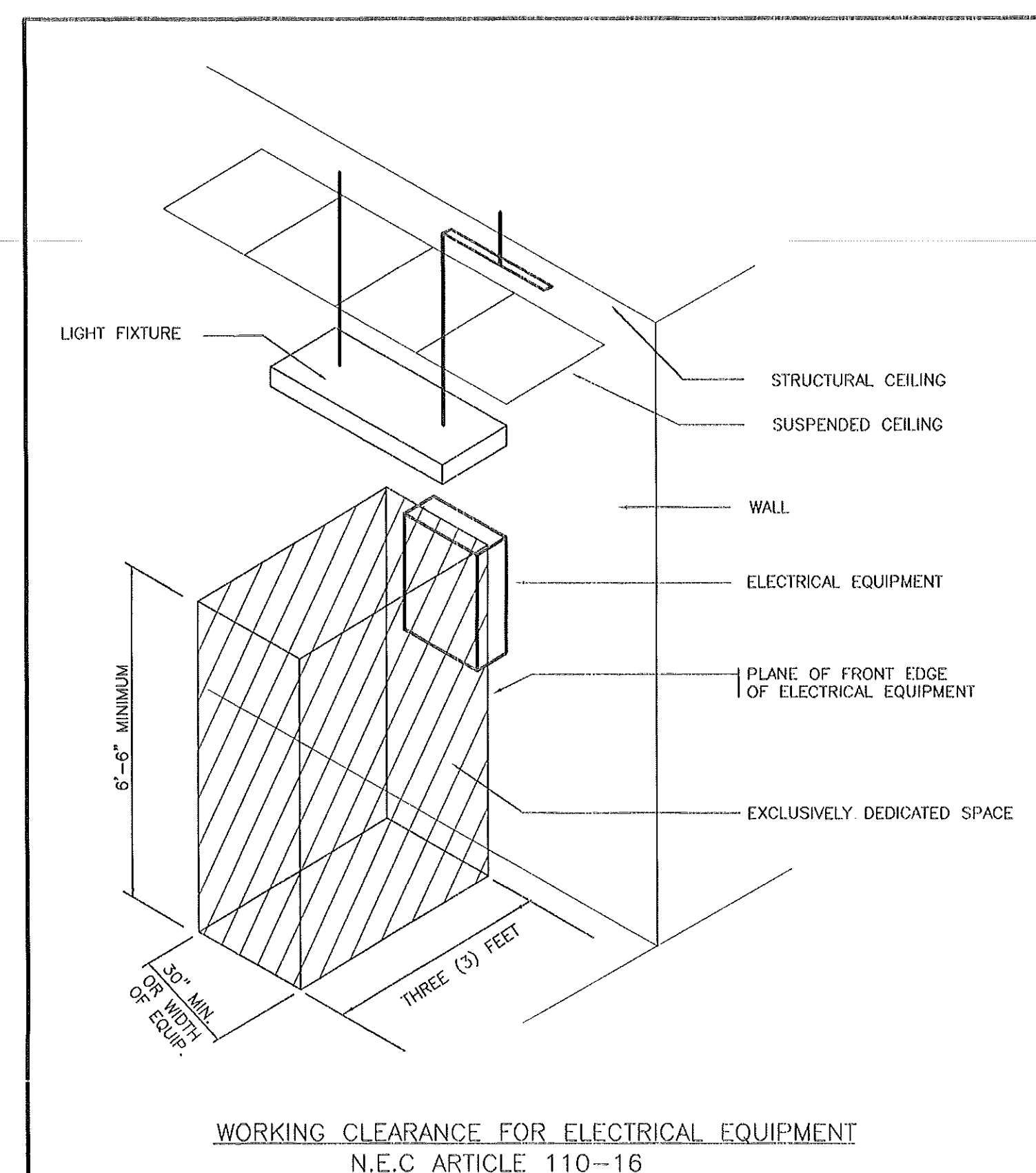
1/15/96
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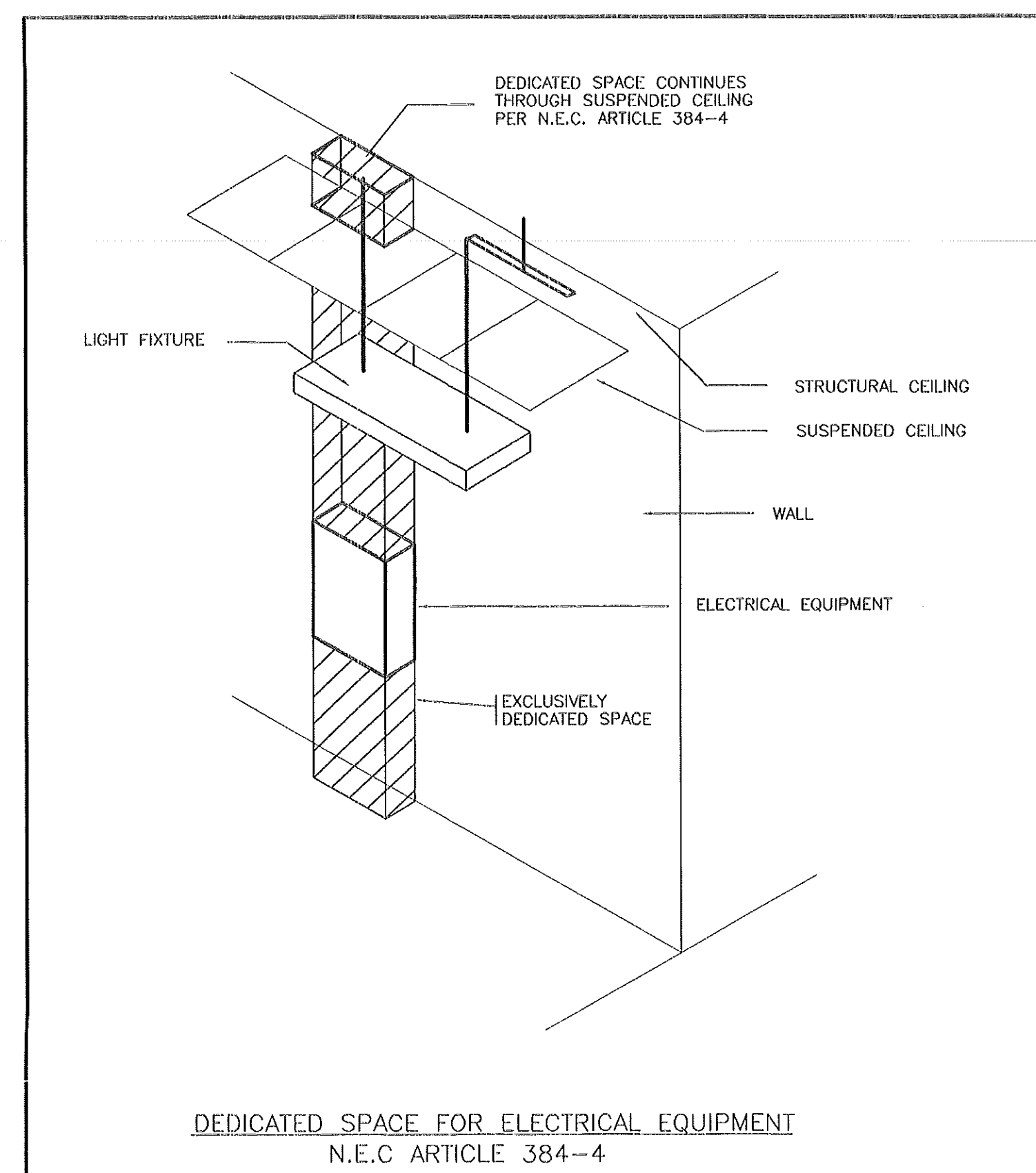


1 COMMONS AREA LIGHTING AND POWER PLAN
E-17
1/8" = 1'-0"

- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)
- JUNCTION BOX THROUGH THE WALL AIR HANDLING UNIT. COORDINATE EXACT LOCATION WITH THE MECHANICAL CONTRACTOR. UNIT HAS AN INTERNAL DISCONNECTING MEANS.
 - MIN FLOOD LIGHT MOUNTED IN PLANTER IN COMMONS AREA. COORDINATE EXACT LOCATION IN PLANTER WITH THE ARCHITECT.
 - WALL MOUNTED EXIT SIGN IS TO BE SURFACE MOUNTED ON THE CENTER STRUCTURAL BAND IN THE COMMONS, CENTERED OVER THE DOOR. COORDINATE WITH THE ARCHITECTURAL DETAILS.



2 DETAIL
E-17
NOT TO SCALE



3 DETAIL
E-17
NOT TO SCALE

RECEPTACLES: EXTERIOR	1	2
RECEPTACLES: 417	3	4
RECEPTACLES: 415	5	6
RECEPTACLES: 415	7	8
RECEPTACLES: 415	9	10
RECEPTACLES: 413A	11	12
RECEPTACLES: 413	13	14
RECEPTACLES: 413	15	16
RECEPTACLES: 413	17	18
RECEPTACLES: 400M	19	20
RECEPTACLES: 411	21	22
RECEPTACLES: 416	23	24
RECEPTACLES: 412A	25	26
RECEPTACLES: 403	27	28
RECEPTACLES: 400	29	30
SPARE	31	32
SPARE	33	34
SPARE	35	36
SPARE	37	38
SPARE	39	40
SPARE	41	42

PANEL DL

400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH 400 AMP MAIN BREAKER
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 416	1	2
RECEPTACLES: 416	3	4
RECEPTACLES: 414A	5	6
SPARE	7	8
RECEPTACLES: 410A	9	10
RECEPTACLES: 410	11	12
RECEPTACLES: 410	13	14
RECEPTACLES: 410	15	16
RECEPTACLES: 408	17	18
RECEPTACLES: 406A	19	20
RECEPTACLES: 406A	21	22
RECEPTACLES: 406	23	24
RECEPTACLES: 406	25	26
RECEPTACLES: 406	27	28
RECEPTACLES: 409	29	30
EXHAUST FAN	31	32
EXHAUST FAN	33	34
ROOF RECEPTACLES	35	36
RECEPTACLES: 417A	37	38
EXHAUST FAN	39	40
CONTROLS	41	42

PANEL DL1

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES - 418	1	2
RECEPTACLES: 418	3	4
ROOF RECEPTACLES	5	6
RECEPTACLES - 418	7	8
RECEPTACLES - 418	9	10
RECEPTACLES - 418	11	12
RECEPTACLES - 418	13	14
RECEPTACLES - 418	15	16
EXHAUST FAN	17	18
EXHAUST FAN	19	20
RECEPTACLES - CORRIDOR	21	22
EW	23	24
RECEPTACLES - 422	25	26
RECEPTACLES - 422	27	28
RECEPTACLES - 422	29	30
RECEPTACLES - 422	31	32
RECEPTACLES - 422	33	34
RECEPTACLES - 422	35	36
RECEPTACLES - 422	37	38
RECEPTACLES - 422	39	40
RECEPTACLES - 422	41	42

PANEL DL2

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

BOOSTER HEATER	1	2
3 POLE, 80 AMP	3	4
3 #4, 1 #8G IN 1 1/2" CONDUIT	5	6
SPARE	7	8
3 POLE	9	10
50 AMP	11	12
SPARE	13	14
SPARE	15	16
SPARE	17	18
SPARE	19	20
SPARE	21	22
SPARE	23	24
SPARE	25	26
SPARE	27	28
SPARE	29	30
SPARE	31	32
SPARE	33	34
SPARE	35	36
SPARE	37	38
SPARE	39	40
SPARE	41	42

PANEL KH

225 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
26 KA ISC RATED UNLESS OTHERWISE NOTED

34-ELECTRIC FRYER; 3 POLE, 60 AMP	1	2
3 #6, 1 #10G IN 1" CONDUIT	3	4
SPARE	5	6
SPARE	7	8
SPARE	9	10
40-KETTLE; 2 POLE, 30 AMP	11	12
2 #10, 1 #10G IN 3/4" CONDUIT	13	14
35-STEAMER	15	16
3 POLE, 60 AMP	17	18
3 #6, 1 #10G IN 1 1/2" CONDUIT	19	20
29-TILTING BRAISING PAN	21	22
3 POLE, 70 AMP	23	24
3 #4, 1 #8G IN 1 1/2" CONDUIT	25	26
SPARE	27	28
3 POLE	29	30
70 AMP	31	32
SPARE	33	34
3 POLE	35	36
50 AMP	37	38
SPARE	39	40
3 POLE	41	42
60 AMP	43	44

PANEL K

400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
RECESSED MOUNTED WITH 400 AMP SHUNT TRIP MAIN BREAKER
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 409	1	2
RECEPTACLES: 407A	3	4
RECEPTACLES: 407	5	6
RECEPTACLES: 407	7	8
RECEPTACLES: 407	9	10
RECEPTACLES: 407	11	12
RECEPTACLES: NETWORK	13	14
RECEPTACLES: NETWORK	15	16
RECEPTACLES: NETWORK	17	18
ELECTRIC WATER COOLER	19	20
ELECTRIC WATER COOLER	21	22
RECEPTACLES: 416	23	24
SPARE	25	26
SPARE	27	28
SPARE	29	30
CONTROLS	31	32
ROOF RECEPTACLES	33	34
EXHAUST FAN	35	36
EXHAUST FAN	37	38
AHU-28	39	40
SPARE	41	42

PANEL CL1

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 316	1	2
RECEPTACLES: 316	3	4
RECEPTACLES: 314A	5	6
RECEPTACLES: 314	7	8
RECEPTACLES: 314	9	10
RECEPTACLES: 310	11	12
RECEPTACLES: 310	13	14
RECEPTACLES: 308	15	16
RECEPTACLES: 308	17	18
RECEPTACLES: 308	19	20
RECEPTACLES: 308	21	22
RECEPTACLES: 306	23	24
RECEPTACLES: 306	25	26
RECEPTACLES: 306	27	28
RECEPTACLES: 306	29	30
CONTROLS	31	32
ROOF RECEPTACLES	33	34
EXHAUST FAN	35	36
EXHAUST FAN	37	38
AHU-28	39	40
SPARE	41	42

PANEL CL2

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 301	1	2
RECEPTACLES: 301	3	4
RECEPTACLES: 301	5	6
RECEPTACLES: 301	7	8
RECEPTACLES: 301	9	10
RECEPTACLES: 301	11	12
RECEPTACLES: 301	13	14
RECEPTACLES: 301	15	16
RECEPTACLES: 301	17	18
RECEPTACLES: 301	19	20
RECEPTACLES: 301	21	22
RECEPTACLES: 301A	23	24
RECEPTACLES: 412	25	26
RECEPTACLES: 314	27	28
RECEPTACLES: 314	29	30
RECIRCULATING PUMP	31	32
SPARE	33	34
SPARE	35	36
SPARE	37	38
SPARE	39	40
SPARE	41	42

PANEL CL3

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 601A	1	2
RECEPTACLES: 601A	3	4
RECEPTACLES: 601A	5	6
RECEPTACLES: 601A	7	8
RECEPTACLES: 601A	9	10
RECEPTACLES: 601A	11	12
RECEPTACLES: 601A	13	14
RECEPTACLES: 601A	15	16
RECEPTACLES: 601A	17	18
RECEPTACLES: 601A	19	20
RECEPTACLES: 601A	21	22
RECEPTACLES: 600	23	24
RECEPTACLES: 603	25	26
RECEPTACLES: 603	27	28
RECEPTACLES: 603	29	30
RECEPTACLES: 604	31	32
RECEPTACLES: 604	33	34
RECEPTACLES: 604	35	36
RECEPTACLES: 604	37	38
RECEPTACLES: 604	39	40
RECEPTACLES: 604	41	42

PANEL CL4

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 400	1	2
RECEPTACLES: 400	3	4
RECEPTACLES: 400	5	6
RECEPTACLES: 400	7	8
RECEPTACLES: 400	9	10
RECEPTACLES: 400	11	12
RECEPTACLES: 400	13	14
RECEPTACLES: 400	15	16
RECEPTACLES: 400	17	18
RECEPTACLES: 400	19	20
RECEPTACLES: 400	21	22
RECEPTACLES: 400	23	24
RECEPTACLES: 400	25	26
RECEPTACLES: 400	27	28
RECEPTACLES: 400	29	30
RECEPTACLES: 400	31	32
RECEPTACLES: 400	33	34
RECEPTACLES: 400	35	36
RECEPTACLES: 400	37	38
RECEPTACLES: 400	39	40
RECEPTACLES: 400	41	42

PANEL DH

400 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
22 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 314	1	2
RECEPTACLES: 314	3	4
RECEPTACLES: 314	5	6
RECEPTACLES: 314	7	8
RECEPTACLES: 314	9	10
RECEPTACLES: 310	11	12
RECEPTACLES: 310	13	14
RECEPTACLES: 310	15	16
RECEPTACLES: 308	17	18
RECEPTACLES: 308	19	20
RECEPTACLES: 308	21	22
RECEPTACLES: 306	23	24
RECEPTACLES: 306	25	26
RECEPTACLES: 306	27	28
RECEPTACLES: 306	29	30
CONTROLS	31	32
ROOF RECEPTACLES	33	34
EXHAUST FAN	35	36
EXHAUST FAN	37	38
AHU-28	39	40
SPARE	41	42

PANEL BL1

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 210A	1	2
RECEPTACLES: 210	3	4
RECEPTACLES: 210	5	6
RECEPTACLES: 210	7	8
RECEPTACLES: 208	9	10
RECEPTACLES: 208	11	12
RECEPTACLES: 208	13	14
RECEPTACLES: 208	15	16
RECEPTACLES: 208	17	18
RECEPTACLES: 208	19	20
RECEPTACLES: 208	21	22
RECEPTACLES: 208	23	24
RECEPTACLES: 208	25	26
RECEPTACLES: 208	27	28
RECEPTACLES: 208	29	30
RECEPTACLES: 208	31	32
RECEPTACLES: 208	33	34
RECEPTACLES: 208	35	36
RECEPTACLES: 208	37	38
RECEPTACLES: 208	39	40
RECEPTACLES: 208	41	42

PANEL BL2

400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

KILN - 2 POLE, 80 AMP	1	2
2 #4, 1 #10G IN 1" CONDUIT	3	4
ELECTRIC WATER COOLER	5	6
ELECTRIC WATER COOLER	7	8
RECEPTACLE - 501A, 501B	9	10
RECEPTACLES - 507	11	12
RECEPTACLES - 507	13	14
RECEPTACLES - 507	15	16
RECEPTACLES - 507	17	18
RECEPTACLES - 507	19	20
RECEPTACLES - 507	21	22
RECEPTACLES - 507	23	24
RECEPTACLES - 507	25	26
RECEPTACLES - 507	27	28
RECEPTACLES - 507	29	30
RECEPTACLES - 507	31	32
RECEPTACLES - 507	33	34
RECEPTACLES - 507	35	36
RECEPTACLES - 507	37	38
RECEPTACLES - 507	39	40
RECEPTACLES - 507	41	42

PANEL BL3

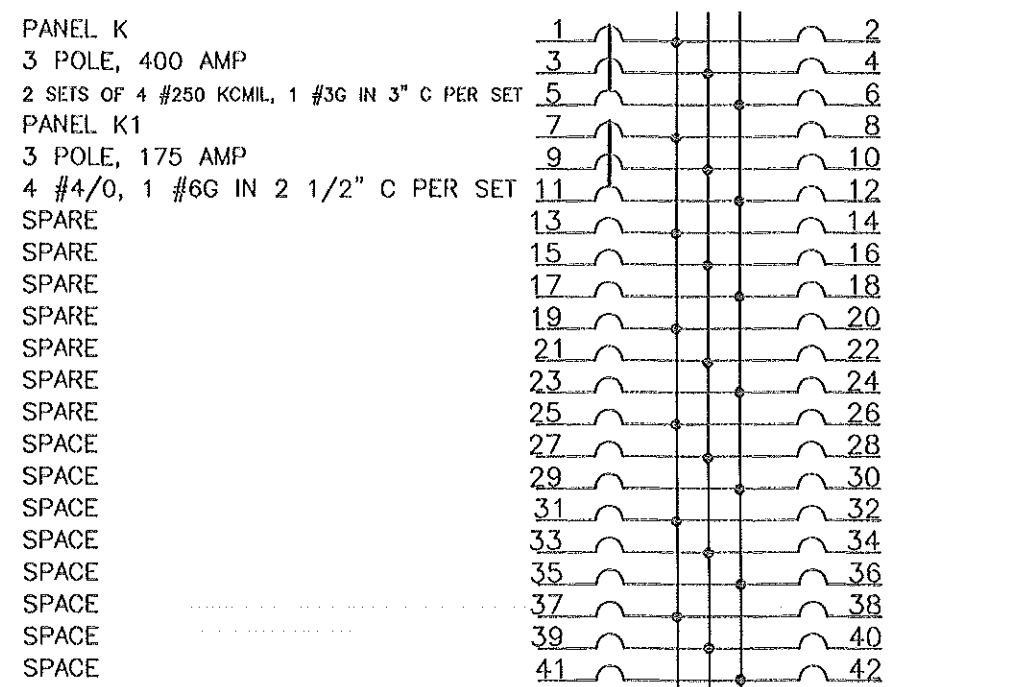
225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
12 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: 300	1	2
RECEPTACLES: 300	3	4
RECEPTACLES: 300	5	6
RECEPTACLES: 300	7	8
RECEPTACLES: 300	9	10
RECEPTACLES: 300	11	12
RECEPTACLES: 300	13	14
RECEPTACLES: 300	15	16
RECEPTACLES: 300	17	18
RECEPTACLES: 300	19	20
RECEPTACLES: 300	21	22
RECEPTACLES: 300	23	24
RECEPTACLES: 300	25	26
RECEPTACLES: 300	27	28
RECEPTACLES: 300	29	30
RECEPTACLES: 300	31	32
RECEPTACLES: 300	33	34
RECEPTACLES: 300	35	36
RECEPTACLES: 300	37	38
RECEPTACLES: 300	39	40
RECEPTACLES: 300	41	42

PANEL CH

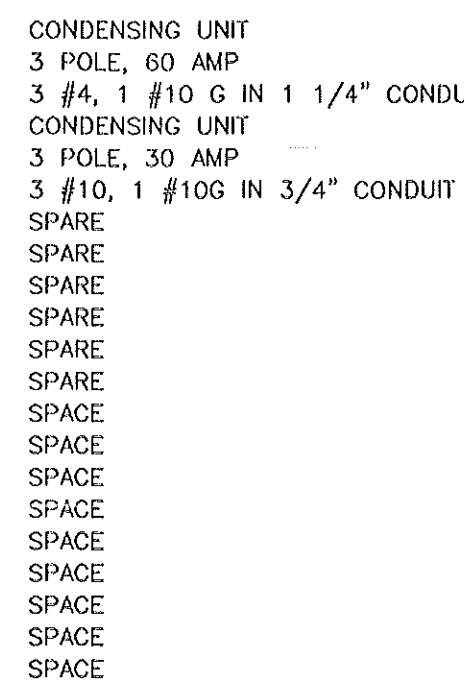
1000 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH 1000 AMP MAIN BREAKER
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
28 KA ISC RATED UNLESS OTHERWISE NOTED

RECEPTACLES: EXTERIOR	1	2
RECEPTACLES: 317	3	4
RECEPTACLES: 315	5	6
RECEPTACLES: 315	7	8
RECEPTACLES: 315	9	10
RECEPTACLES: 315A	11	12
RECEPTACLES: 313	13	14
RECEPTACLES: 313	15	16
RECEPTACLES: 313	17	18
RECEPTACLES: 300M	19	20
RECEPTACLES: 311	21	22
RECEPTACLES: 309	23	24
RECEPTACLES: 317A	25	26
RECEPTACLES: 303	27	28
RECEPTACLES: 300	29	30
PANEL: 015	31	32
3 POLE, 175 AMP	33	34
4 #4/0, 1 #6 G IN 2 1/2" CONDUIT	35	36
TVSS	37	38
4 POLE, 60 AMP	39	40
TVSS	41	42



PANEL ML1

600 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



PANEL GH1

225 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
14 KA ISC RATED UNLESS OTHERWISE NOTED



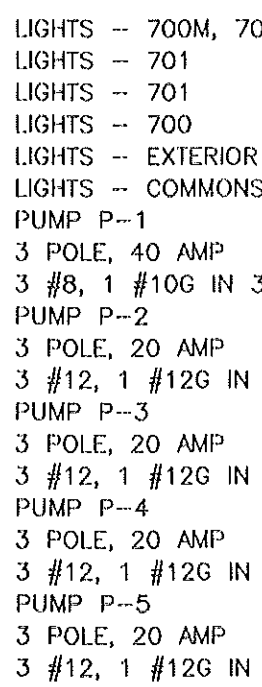
PANEL ML1

600 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



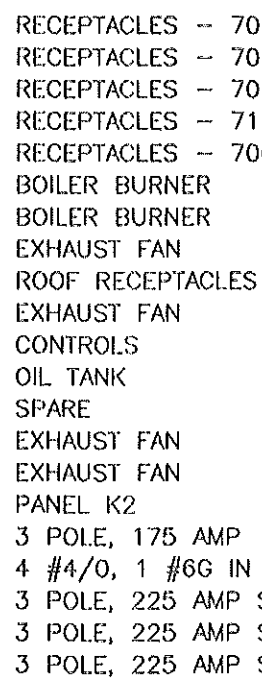
PANEL ML1

600 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



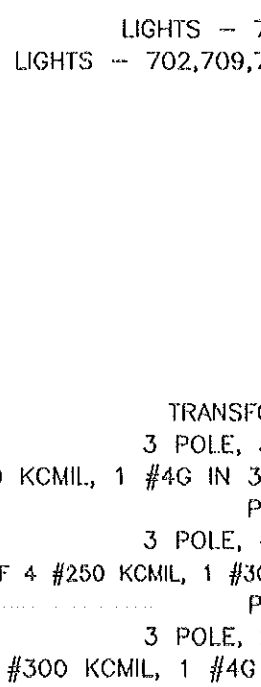
PANEL MH

800 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
42 KA ISC RATED UNLESS OTHERWISE NOTED



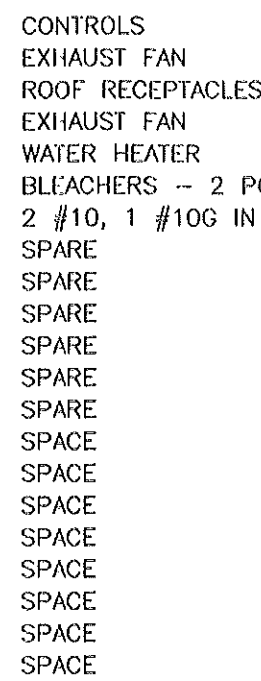
PANEL ML

600 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
14 KA ISC RATED UNLESS OTHERWISE NOTED



PANEL GL

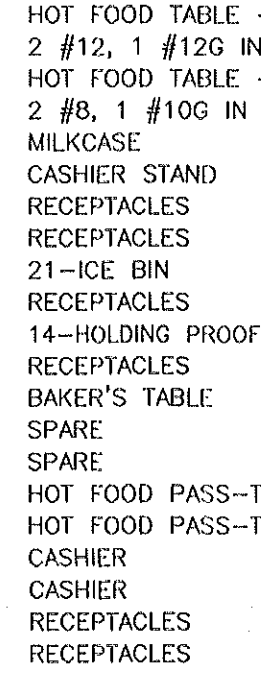
225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



PANEL GL1

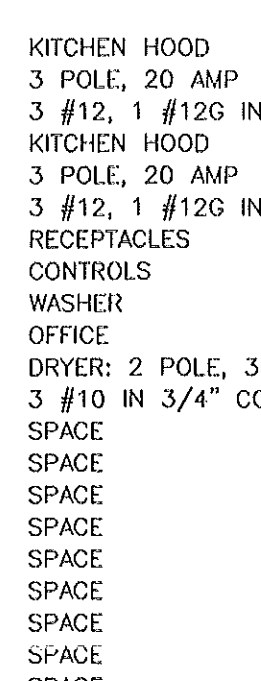
60 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED

* IF ALTERNATE E-2 IS NOT ACCEPTED, THIS BREAKER IS A SPARE.



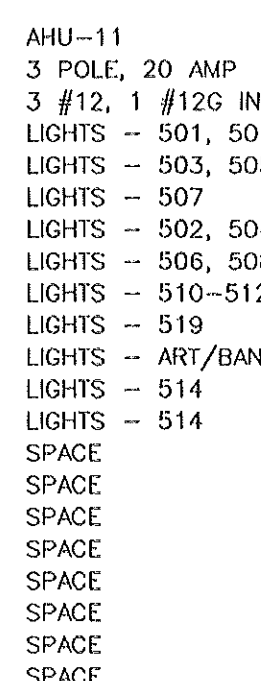
PANEL K1

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



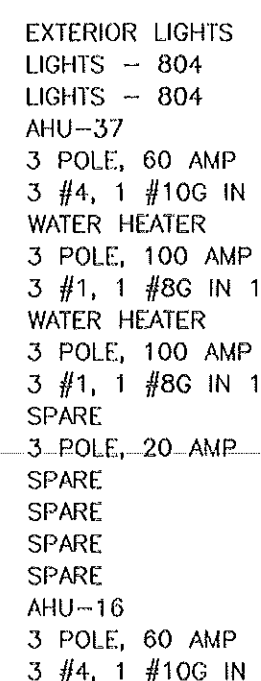
PANEL K2

225 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



PANEL BH1

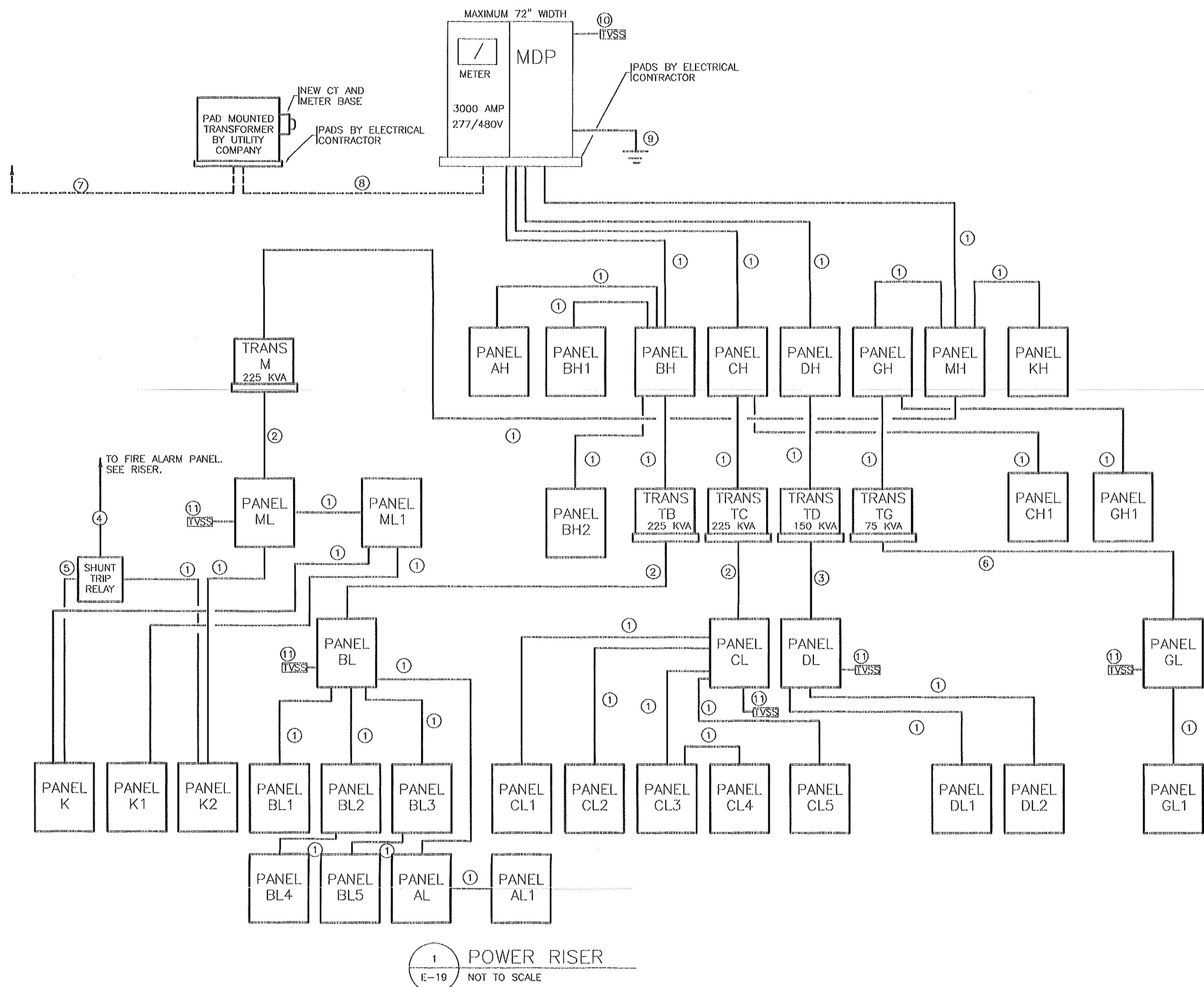
100 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED



PANEL GH

400 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
14 KA ISC RATED UNLESS OTHERWISE NOTED

* IF ALTERNATE E-2 IS NOT ACCEPTED, THIS BREAKER IS A SPARE.



NOTES:

- EACH PANELBOARD SHALL BE CONSIDERED A POINT OF ACCESS FOR CHECK METERING. ACCESS MAY BE GAINED BY QUALIFIED PERSONNEL BY REMOVING THE ENCLOSURE COVER, THEREBY ACCESSING THE CIRCUIT FEEDERS.
- ALL DRY TYPE TRANSFORMERS SHALL HAVE A NEUTRAL WIRE, ON THE SECONDARY SIDE OF THE TRANSFORMER, EQUAL TO THE CONDUCTOR SIZE.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A CIRCLE)

- SEE PANEL SCHEDULES FOR BREAKER, CONDUIT, AND WIRE SIZES.
- 2 SETS OF 4 #500 KCMIL, 1 #1 GROUND IN 3 1/2" CONDUIT PER SET.
- 2 SETS OF 3 #250 KCMIL, 1 #3 GROUND IN 2 1/2" CONDUIT PER SET.
- PROVIDE ALL COILS AND RELAYS/ CONTACTS TO ACTIVATE KITCHEN INSUL SYSTEM. SEE SHEET E-4 NOTE (4) AND FIRE ALARM RISER SHEET E-1.
- SIZE AS REQUIRED.
- 3 #300 KCMIL, 1 #4G IN 3" CONDUIT.
- UNDERGROUND UTILITY CONDUCTORS BY THE UTILITY COMPANY.
- 8 SETS OF 4 #500 KCMIL, 1 #3/0 GROUND IN 4" CONDUIT PER SET. CONCRETE ENCASE IN A 20"x20" CONCRETE DUCT BANK. BURY CONDUITS 18" BELOW GRADE TO THE TOP OF THE DUCT BANK. LEAVE 6" OF POTENTIAL WIRING INSIDE THE TRANSFORMER FOR WIRING OF THE SECONDARIES BY THE UTILITY COMPANY.
- GROUND SERVICE ENTRANCE SWITCHBOARD WITH THE FOLLOWING:
 - ONE #3/0 GROUND IN 1" CONDUIT TO A 3/4"x10" DRIVEN COPPER GROUND ROD.
 - ONE #3/0 GROUND IN 1" CONDUIT TO THE UNDERGROUND METAL COLD WATER PIPING.
 - ONE #3/0 GROUND IN 1" CONDUIT TO THE BUILDING STRUCTURAL STEEL WHERE IT IS BELOW GRADE.
- INSTALL LIEBERT TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS) MODEL LC2277Y33 WITH TRANSIENT COUNTER, AUDIBLE ALARM, INDICATOR LIGHTS, AND DISCONNECTS ON THIS PANEL. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL LIEBERT TVSS MODEL ACCUAR ACV277Y111RE IN THIS PANEL. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

RECORD DRAWINGS: FEBRUARY 1998

THESE DRAWINGS HAVE BEEN REVISED TO SHOW SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS, BASED ON MARKED-UP PRINTS, DRAWINGS, AND OTHER DATA FURNISHED BY THE CONTRACTOR. THESE DRAWINGS ARE NOT REPRESENTED TO CONTAIN EVERY MINOR CHANGE MADE DURING CONSTRUCTION AND ARE NOT TO BE CONSIDERED AS "AS-BUILT".

LOAD SUMMARY

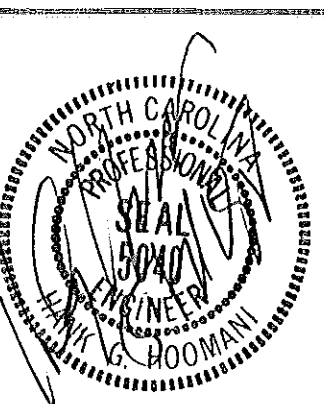
	TOTAL KW	DIVERSITY	CONNECTED KW
INTERIOR LIGHTING	157.67	x .8	126.14
DECORATIVE EXTERIOR LIGHTING	13.5	x .4	5.4
WATER HEATERS	321.42	x .7	224.99
HEATING AND COOLING	909.76	x .7	636.83
HVAC AUXILIARIES	82.5	x .6	49.5
COOKING EQUIPMENT	278.80	x .4	111.52
COMPUTERS	104.00	x .6	62.4
GENERAL PURPOSE RECEPTACLES	250.00	x .5	125.00
BUILDING MISC.	120.00	x .7	84.00
			1311.78

$$I = \frac{(1311.78)(1000)}{480 \times 1.73} = 1579.70 \text{ AMPS}$$

THE SMITH SINNETT ASSOCIATES, P.A.

Architects * Planners

4601 Lake Boone Trail
Suite 3C
Raleigh, N.C. 27607
919-781-8582



CONSULTING ENGINEERS

PROGRESSIVE DESIGN COLLABORATIVE, INC.

POST OFFICE BOX 61249
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Project Manager: John F. Sinnett, AIA

Project Designer: Rhonda Angerio

Project Engineer: J. Kevin Mason

drawn by: Hank G. Hoomani

checked by:

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no.	description	date
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Revisions

New Havelock Middle School

Craven County North Carolina

project title

PANEL SCHEDULES

LOAD SUMMARY

POWER RISER

sheet title

9502.00

PDC #95045

project no.

1/15/98

date

1/8" = 1'-0"

scale:

sheet no. 19 of 20

E-19

RECEPTACLES - 129	1	2
RECEPTACLES - 119	3	4
RECEPTACLES - 126	5	6
RECEPTACLES - 128	7	8
RECEPTACLES - 120	9	10
RECEPTACLES - 120	11	12
RECEPTACLES - 120	13	14
EXHAUST FAN	15	16
SPACE	17	18
SPACE	19	20
SPACE	21	22
SPACE	23	24
SPACE	25	26
SPACE	27	28
SPACE	29	30
SPACE	31	32
SPACE	33	34
SPACE	35	36
SPACE	37	38
SPACE	39	40
SPACE	41	42

PANEL AL1

100 AMP 120/208 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED.

RECEPTACLES - 508	1	2
RECEPTACLES - 508	3	4
RECEPTACLES - 510	5	6
RECEPTACLES - 510	7	8
RECEPTACLES - 510	9	10
RECEPTACLES - 510	11	12
RECEPTACLES - 513	13	14
RECEPTACLES - 516	15	16
RECEPTACLES - 516	17	18
RECEPTACLES - 514	19	20
SPACE	21	22
SPACE	23	24
SPACE	25	26
SPACE	27	28
SPACE	29	30
SPACE	31	32
SPACE	33	34
SPACE	35	36
SPACE	37	38
SPACE	39	40
SPACE	41	42

PANEL BL5

100 AMP 120/208 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED.

RECEPTACLES - 218	1	2
RECEPTACLES - 218	3	4
RECEPTACLES - 218	5	6
RECEPTACLES - 218	7	8
RECEPTACLES - 218	9	10
RECEPTACLES - 218	11	12
RECEPTACLES - 218	13	14
RECEPTACLES - 218	15	16
RECEPTACLES - 218	17	18
EXHAUST FAN	19	20
ROOF RECEPTACLES	21	22
SPACE	23	24
SPACE	25	26
SPACE	27	28
SPACE	29	30
SPACE	31	32
SPACE	33	34
SPACE	35	36
SPACE	37	38
SPACE	39	40
SPACE	41	42

PANEL BL4

100 AMP 120/208 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED.

NOTE: THIS PANEL IS TO BE PROVIDED ONLY UNDER ALTERNATE E-1.

3 POLE, 20 AMP	1	2
3 POLE, 20 AMP	3	4
3 POLE, 20 AMP	5	6
3 POLE, 20 AMP	7	8
3 POLE, 20 AMP	9	10
3 POLE, 20 AMP	11	12
3 POLE, 20 AMP	13	14
3 POLE, 20 AMP	15	16
3 POLE, 20 AMP	17	18
3 POLE, 20 AMP	19	20
3 POLE, 20 AMP	21	22
3 POLE, 20 AMP	23	24
3 POLE, 20 AMP	25	26
3 POLE, 20 AMP	27	28
3 POLE, 20 AMP	29	30
3 POLE, 20 AMP	31	32
3 POLE, 20 AMP	33	34
3 POLE, 20 AMP	35	36
3 POLE, 20 AMP	37	38
3 POLE, 20 AMP	39	40
3 POLE, 20 AMP	41	42

PANEL CH1

100 AMP 277/480 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
22 KA ISC RATED UNLESS OTHERWISE NOTED.
NOTE: THIS PANEL IS TO BE PROVIDED ONLY UNDER ALTERNATE E-1.

3 POLE, 20 AMP	1	2
3 POLE, 20 AMP	3	4
3 POLE, 20 AMP	5	6
3 POLE, 20 AMP	7	8
3 POLE, 20 AMP	9	10
3 POLE, 20 AMP	11	12
3 POLE, 20 AMP	13	14
3 POLE, 20 AMP	15	16
3 POLE, 20 AMP	17	18
3 POLE, 20 AMP	19	20
3 POLE, 20 AMP	21	22
3 POLE, 20 AMP	23	24
3 POLE, 20 AMP	25	26
3 POLE, 20 AMP	27	28
3 POLE, 20 AMP	29	30
3 POLE, 20 AMP	31	32
3 POLE, 20 AMP	33	34
3 POLE, 20 AMP	35	36
3 POLE, 20 AMP	37	38
3 POLE, 20 AMP	39	40
3 POLE, 20 AMP	41	42

PANEL BH2

100 AMP 277/480 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
22 KA ISC RATED UNLESS OTHERWISE NOTED.
NOTE: THIS PANEL IS TO BE PROVIDED ONLY UNDER ALTERNATE E-1.

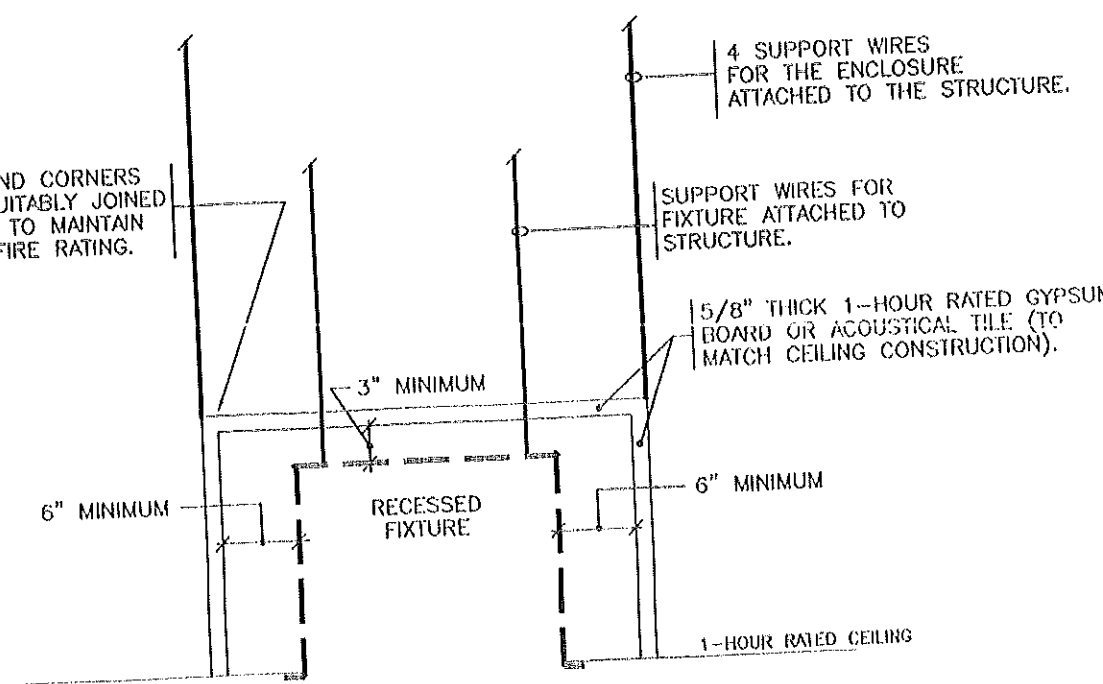
RECEPTACLES - 318	1	2
RECEPTACLES - 318	3	4
RECEPTACLES - 318	5	6
RECEPTACLES - 318	7	8
RECEPTACLES - 318	9	10
RECEPTACLES - 318	11	12
RECEPTACLES - 318	13	14
RECEPTACLES - 318	15	16
RECEPTACLES - 318	17	18
RECEPTACLES - 318	19	20
RECEPTACLES - 318	21	22
RECEPTACLES - 318	23	24
RECEPTACLES - 318	25	26
RECEPTACLES - 318	27	28
RECEPTACLES - 318	29	30
RECEPTACLES - 318	31	32
RECEPTACLES - 318	33	34
RECEPTACLES - 318	35	36
RECEPTACLES - 318	37	38
RECEPTACLES - 318	39	40
RECEPTACLES - 318	41	42

PANEL CL5

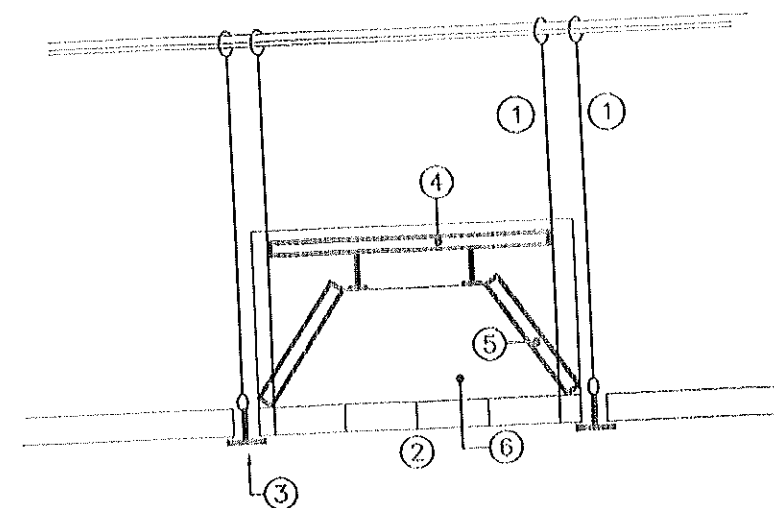
225 AMP 120/208 VOLT, 3 PHASE 4 WIRE
SURFACE MOUNTED WITH MAIN LUGS ONLY
ALL CIRCUIT BREAKERS SHALL BE 1 POLE, 20 AMP
10 KA ISC RATED UNLESS OTHERWISE NOTED.

NOTE: THIS PANEL IS TO BE PROVIDED ONLY UNDER ALTERNATE E-1.

RECEPTACLES - 521	1	2
RECEPTACLES - 520	3	4
RECEPTACLES - 519	5	6
RECEPTACLES - 519	7	8
RECEPTACLES - 519	9	10
RECEPTACLES - 519	11	12
RECEPTACLES - 519	13	14
RECEPTACLES - 519	15	16
RECEPTACLES - 519	17	18
RECEPTACLES - 519	19	20
RECEPTACLES - 519	21	22
RECEPTACLES - 519	23	24
RECEPTACLES - 519	25	26
RECEPTACLES - 519	27	28
RECEPTACLES - 519	29	30
RECEPTACLES - 519	31	32
RECEPTACLES - 519	33	34
RECEPTACLES - 519	35	36
RECEPTACLES - 519	37	38
RECEPTACLES - 519	39	40
RECEPTACLES - 519	41	42



NONLAY-IN RECESSED FIXTURE FIRE PROTECTION



NOTES: (AS INDICATED ON THIS DETAIL BY A NUMBER IN A ○)

1. HANGER WIRE NO. 12 SWG GALVANIZED STEEL TWIST-TIED TO BOTTOM CHORD OF JOISTS, BRIDGING BARS OR COLD-ROLLED CHANNELS. WIRE TO OCCUR 48\"/>

LAY-IN FIXTURE FIRE PROTECTION

THE ELECTRICAL CONTRACTOR SHALL BOX AROUND ALL LIGHT FIXTURES IN THE RATED CEILING. SEE ARCHITECTURAL PLANS FOR RATINGS.

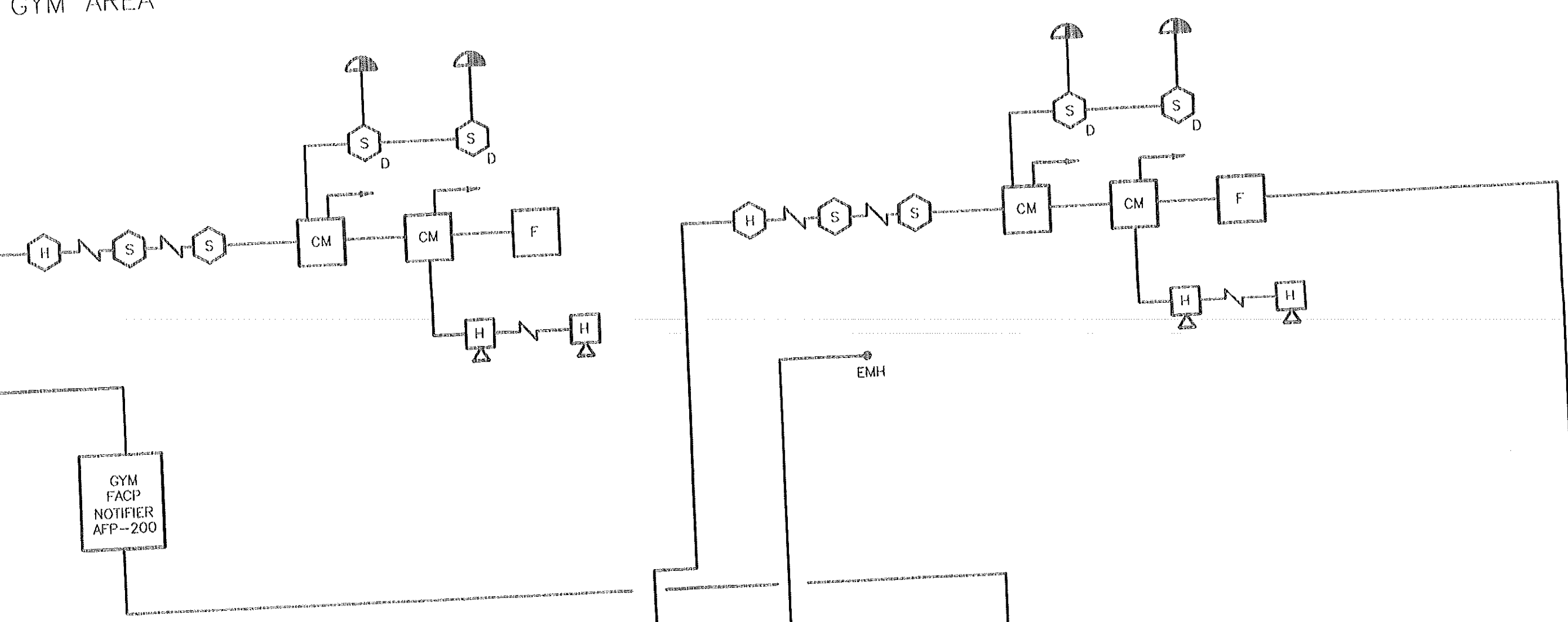
NOTES:

1. THE GENERAL CONTRACTOR SHALL BOX AROUND ALL LIGHTING FIXTURES IN RATED CEILING. SEE ARCHITECTURAL PLANS FOR RATINGS. BOX AROUND FIXTURES AS PER ELECTRICAL SKETCHES E-2 AND E-3 INCLUDING IN ADDENDUM.
2. THE GENERAL CONTRACTOR SHALL SUPPORT THE CEILING GRID AT ALL FOUR CORNERS OF EACH LIGHT FIXTURE. THEREFORE, THE ELECTRICAL CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR CLIPPING THE LIGHT FIXTURES TO THE GRID.
3. WHERE MECHANICAL OR PLUMBING EQUIPMENT IS FED DIRECTLY FROM A PANEL LOCATED WITHIN SIGHT OF THE EQUIPMENT, THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY ENDS AT THE BREAKER REGARDING CONNECTING POWER TO EQUIPMENT.
4. PROVIDE WALL MOUNTED RECESSED ELECTROMAGNETIC DOOR HOLDERS, CONNECTED TO THE FIRE ALARM SYSTEM AND CONTROLLED VIA THE FIRE ALARM PANEL, AT EACH SMOKE DOOR. SEE THE ARCHITECTURAL PLANS FOR SMOKE DOOR LOCATIONS.
5. IF ALTERNATE E-1 IS NOT ACCEPTED, ALL EQUIPMENT USED FOR EXIT, INCLUDING EXIT SIGNS, SWITCHES, PULL STATIONS, EXTERIOR LIGHT, P.A. SYSTEM, AND FIRE ALARM HORN/STROBE, SHALL BE LOCATED AT THE NEW EXIT DOORS LOCATED IN CONDOOR OR MATCH LINE.

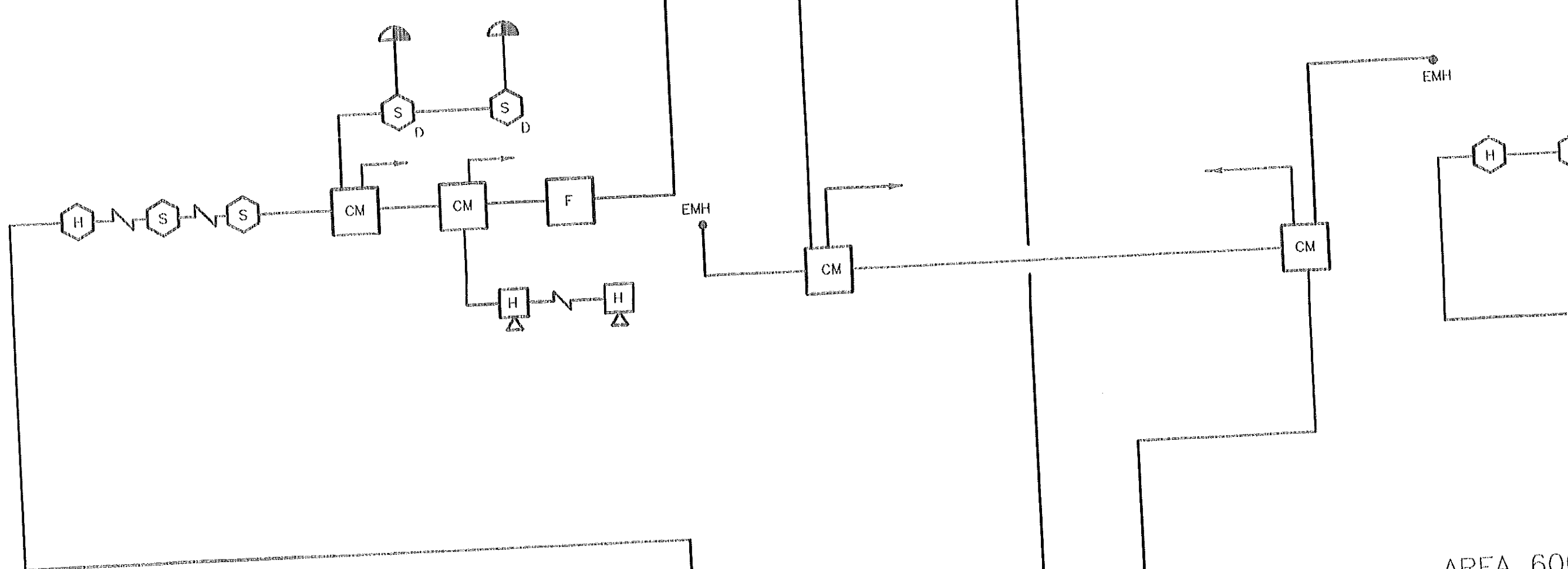
01

DETAIL
NOT TO SCALE

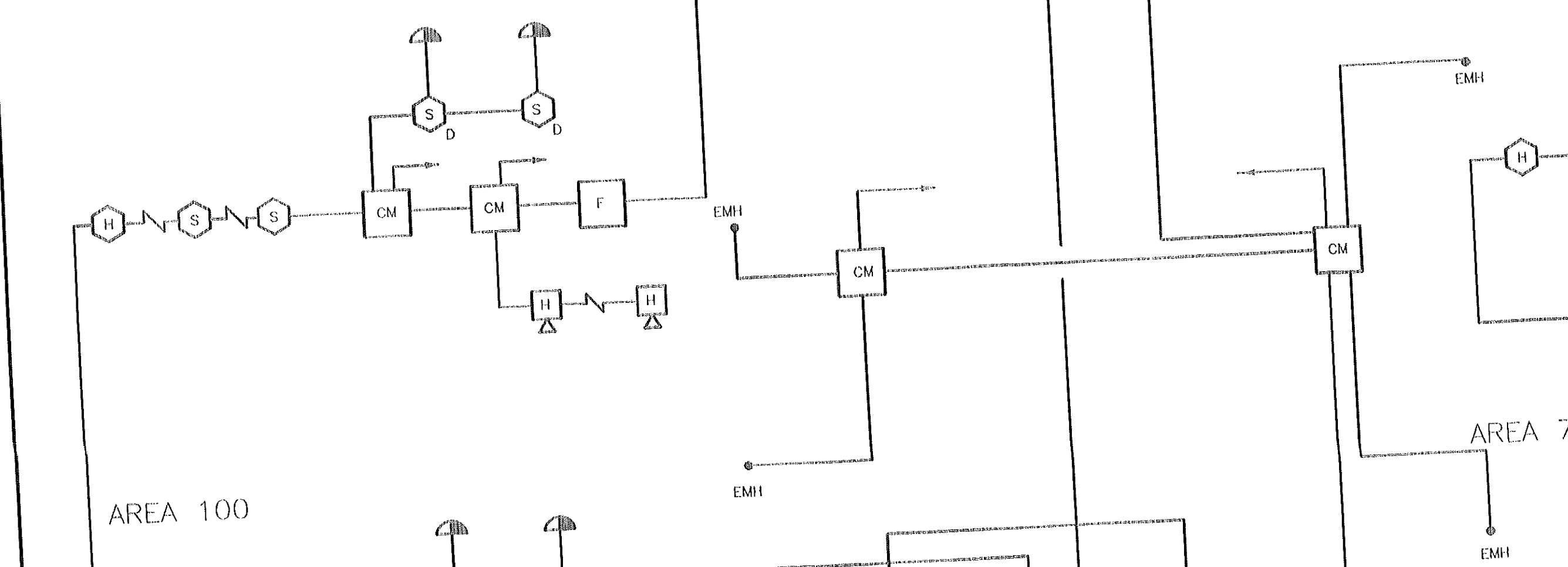
GYM AREA AREA 400



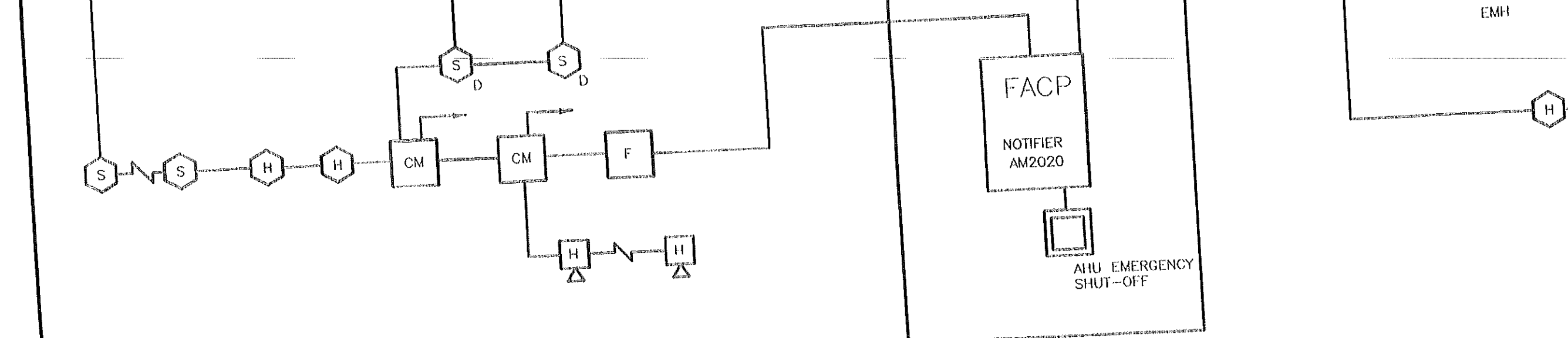
AREA 300



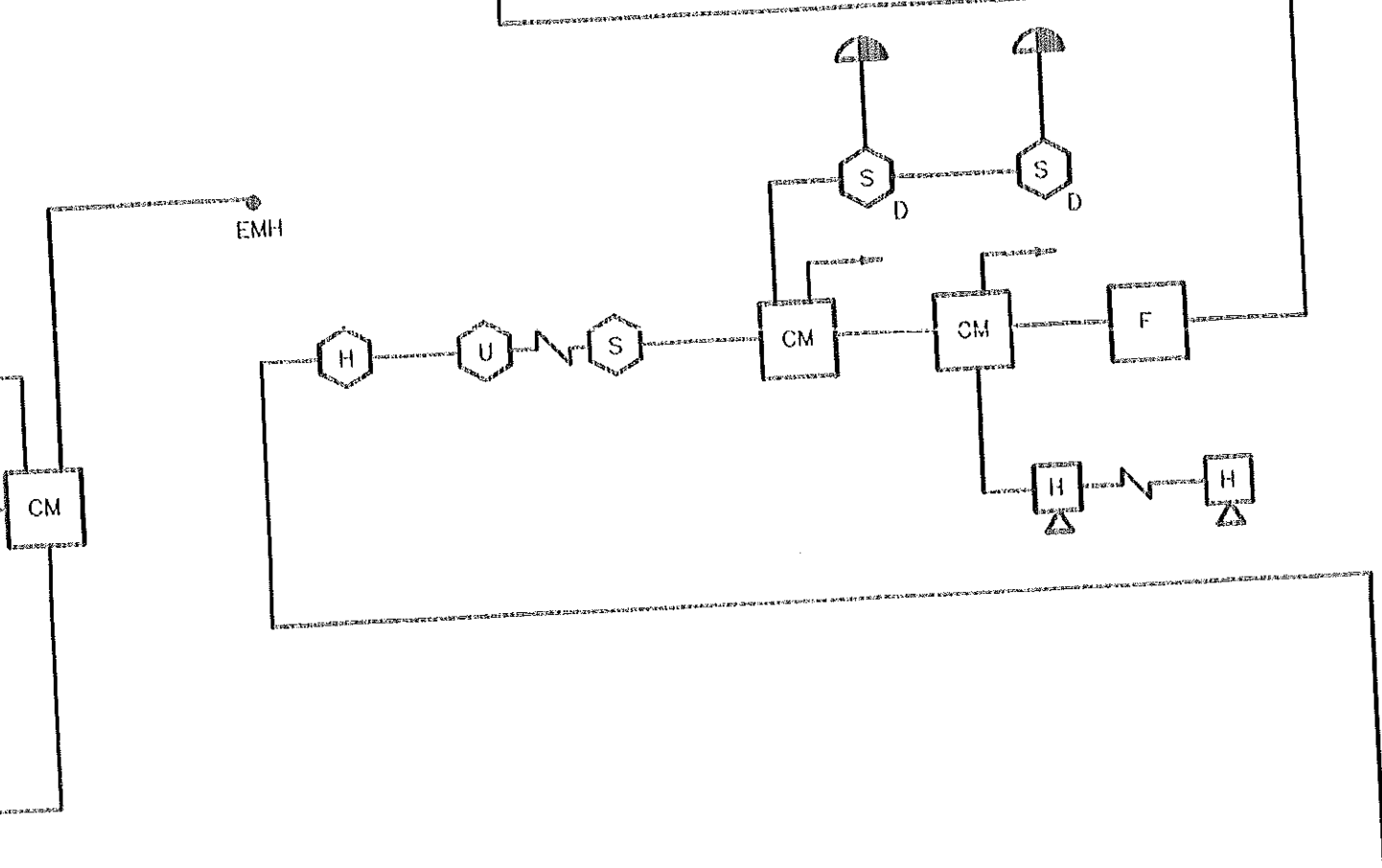
AREA 200



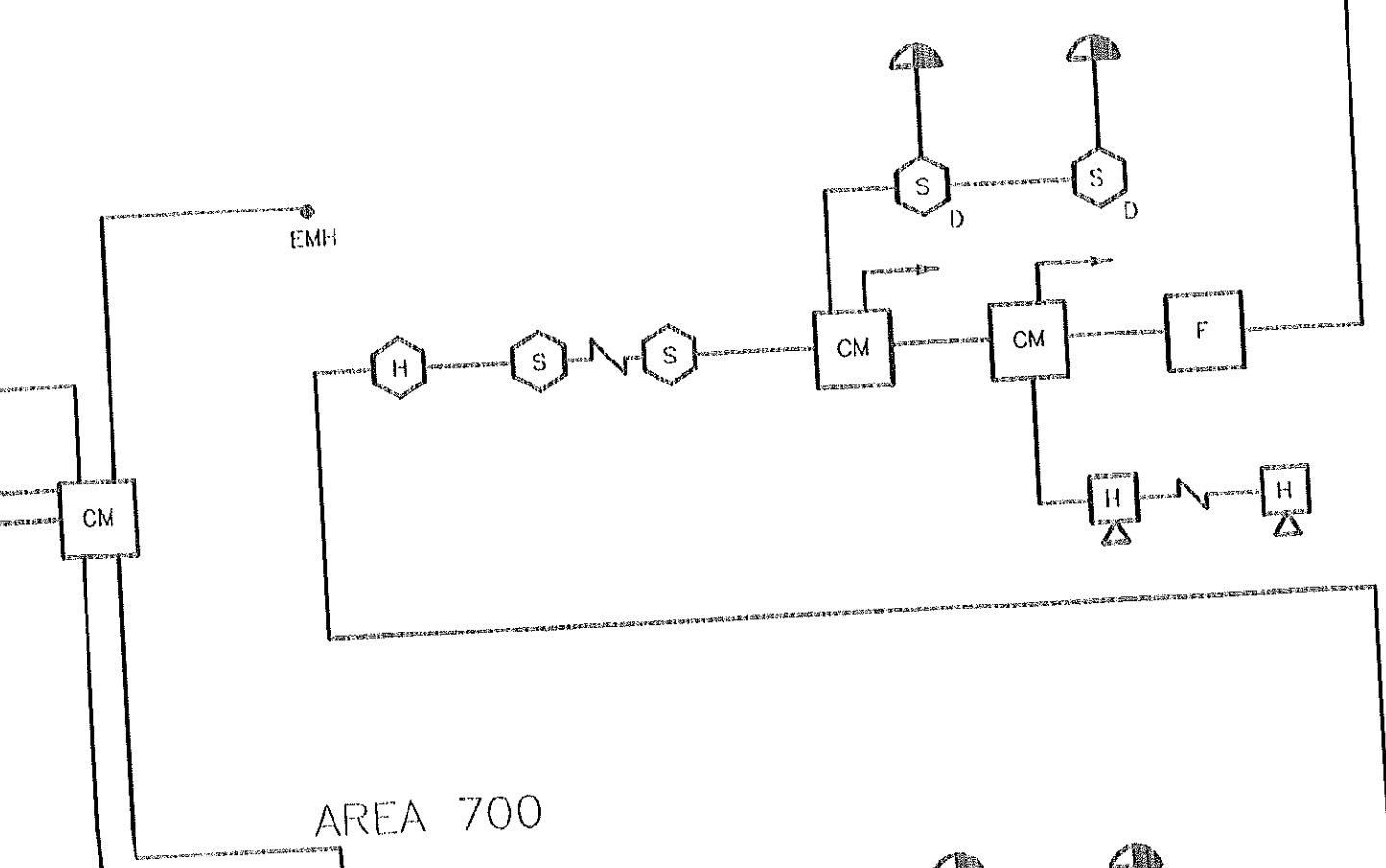
AREA 100



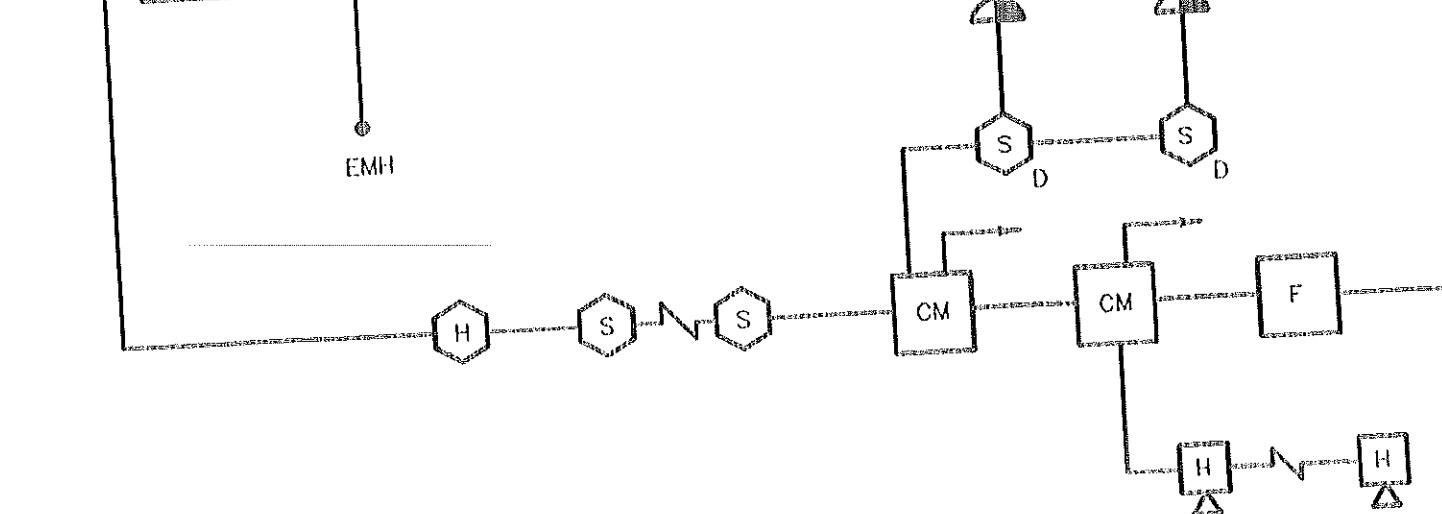
AREA 500



AREA 600



AREA 700



NOTES:

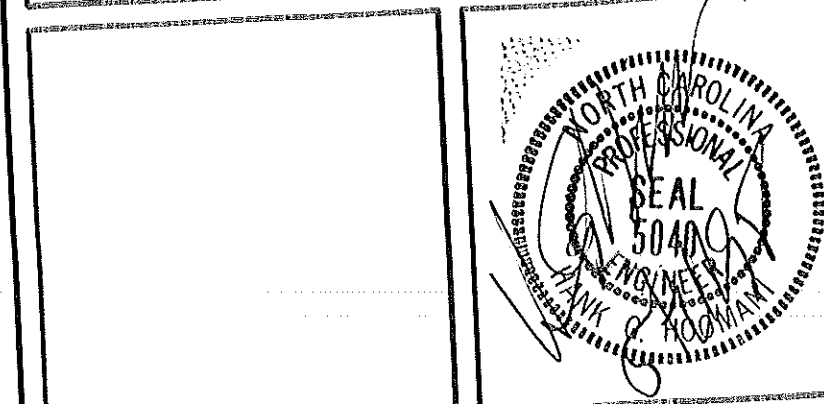
1. SEE PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL EQUIPMENT.
2. PROVIDE CONTROL MODULES AS REQUIRED TO POWER AND CONTROL ALL HORNS, DOORS, HOLDERS, DUCT DETECTORS, ETC.
3. MAGNETIC DOOR HOLDERS SHALL RELEASE UPON ANY ALARM. THEY SHALL BE FLUSH MOUNTED DEVICES. HOLDERS ARE BY THE GENERAL CONTRACTOR WITH THE CONNECTION BY THE ELECTRICAL CONTRACTOR.
4. AIR HANDLING UNITS SHALL BE SHUT DOWN SIMULTANEOUSLY UPON ANY ALARM AND SHALL RESTART SEQUENTIALLY UPON CANCELLATION OF ALARM.
5. MOUNT CONTROL MODULES FOR HORNS, DOOR HOLDERS, ETC. IN THE MECHANICAL ROOM OF ALL AREAS.
6. CONNECT THE SHUNT TRIP BREAKER FOR THE KITCHEN PANEL AS WELL AS THE HOD ANSUL SYSTEM INTO THE FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTS, ETC.
7. LOCATION OF INDICATING DEVICES SHALL BE INDICATED VIA LED ON THE GRAPHIC DISPLAY. DEVICES IN CLOSE PHYSICAL PROXIMITY TO EACH OTHER MAY BE INDICATED BY A SINGLE LED (A MAXIMUM OF FIVE DEVICES MAY BE GROUPED FOR SINGLE LED IN THIS MANNER).
8. A GRAPHIC DISPLAY IS NOT INTENDED TO BE INSTALLED FOR THE GYMNASIUM AS WELL. HOWEVER, THE MAIN GRAPHICAL PANEL SHOULD SHOW THE GYMNASIUM AS WELL.
9. SYSTEM SHALL INCLUDE A WALK TEST FEATURE AND A DIGITAL ALARM COMMUNICATOR. COORDINATE LOCATION OF THE DAC WITH THE OWNER.
10. UPON ALARM THE FACP WILL GIVE A CLEAR LOCATION OF THE DEVICE IN ALARM. EXAMPLE: "SMOKE DETECTOR IN CORRIDOR E100."
11. A GRAPHIC DISPLAY WITH AN OUTLINE OF THE BUILDING SHALL BE LOCATED BESIDE THE FACP SHOWING LOCATION OF INITIATING DEVICE BY LED.
12. ALL DEVICES SHALL BE MANUFACTURED BY NOTIFIER OR OTHER MANUFACTURER CALLED FOR IN THE SPECIFICATIONS OR WHO HAS GAINED PRIOR APPROVAL OF SUBSTITUTION.
13. PROVIDE RELAYS FOR SMOKE/FIRE DAMPERS AS CALLED FOR ON PLANS. ONE RELAY PER DAMPER. CONNECT INTO FIRE ALARM SYSTEM SO THAT DAMPERS CLOSE UPON ALARM.
14. GYMNASIUM FIRE ALARM PANEL SHALL BE A NOTIFIER AFP-200.
15. AN INA NETWORK ANNUNCIATOR SHALL BE INCLUDED IN THE SYSTEM, TO COMMUNICATE BETWEEN PANELS. COORDINATE LOCATION WITH THE OWNER.
16. CLASS A WIRING AND ISOLATION MODULES ARE REQUIRED. SEE SPECIFICATIONS.

1 FIRE ALARM RISER
E-20 NOT TO SCALE

THE SMITH

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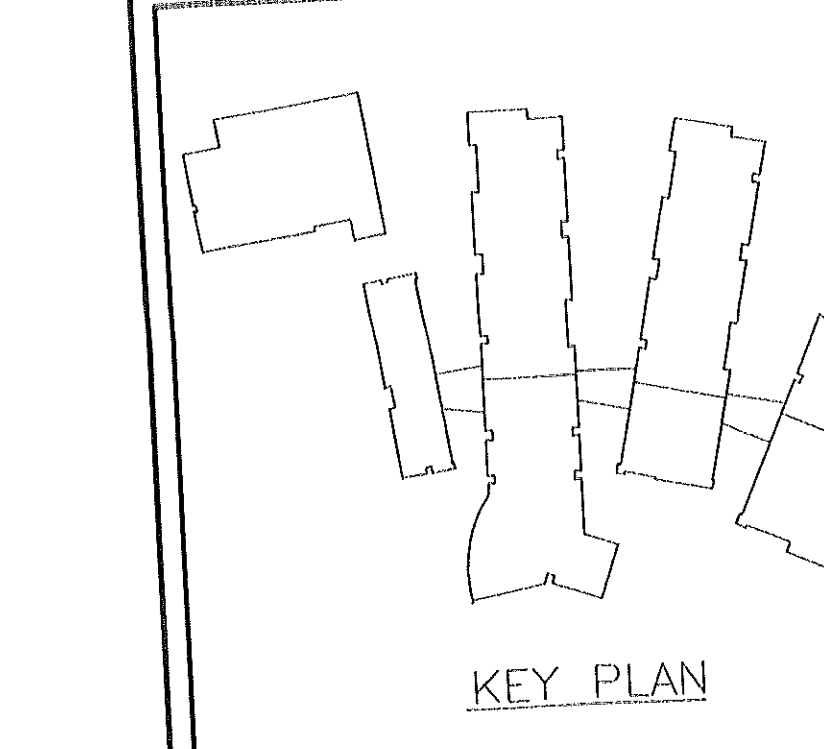


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TELEPHONE 919-790-9989

Project Manager: **John F. Sinnett, AIA**
Project Designer: **Rhonda Angerilo**
Project Engineer: **J. Kevin Mason**
checked by: **Hank G. Hooman**

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no.	description	date



New Havelock Middle School
Craven County
North Carolina

project title	1/8" = 1'-0"
PANEL SCHEDULES FIRE ALARM RISER	scale:
sheet title	sheet no. 20 of 20
9502.00 PDC #95045	project no.
1/15/96	date
sheet no.	E-20

RECORD DRAWINGS: FEBRUARY 1998
THESE DRAWINGS HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE NC BUILDING CODE AND ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT THE SIGNATURE OF THE ARCHITECT.

released for construction 1/15/98