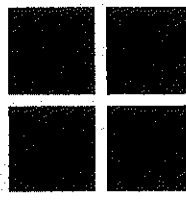


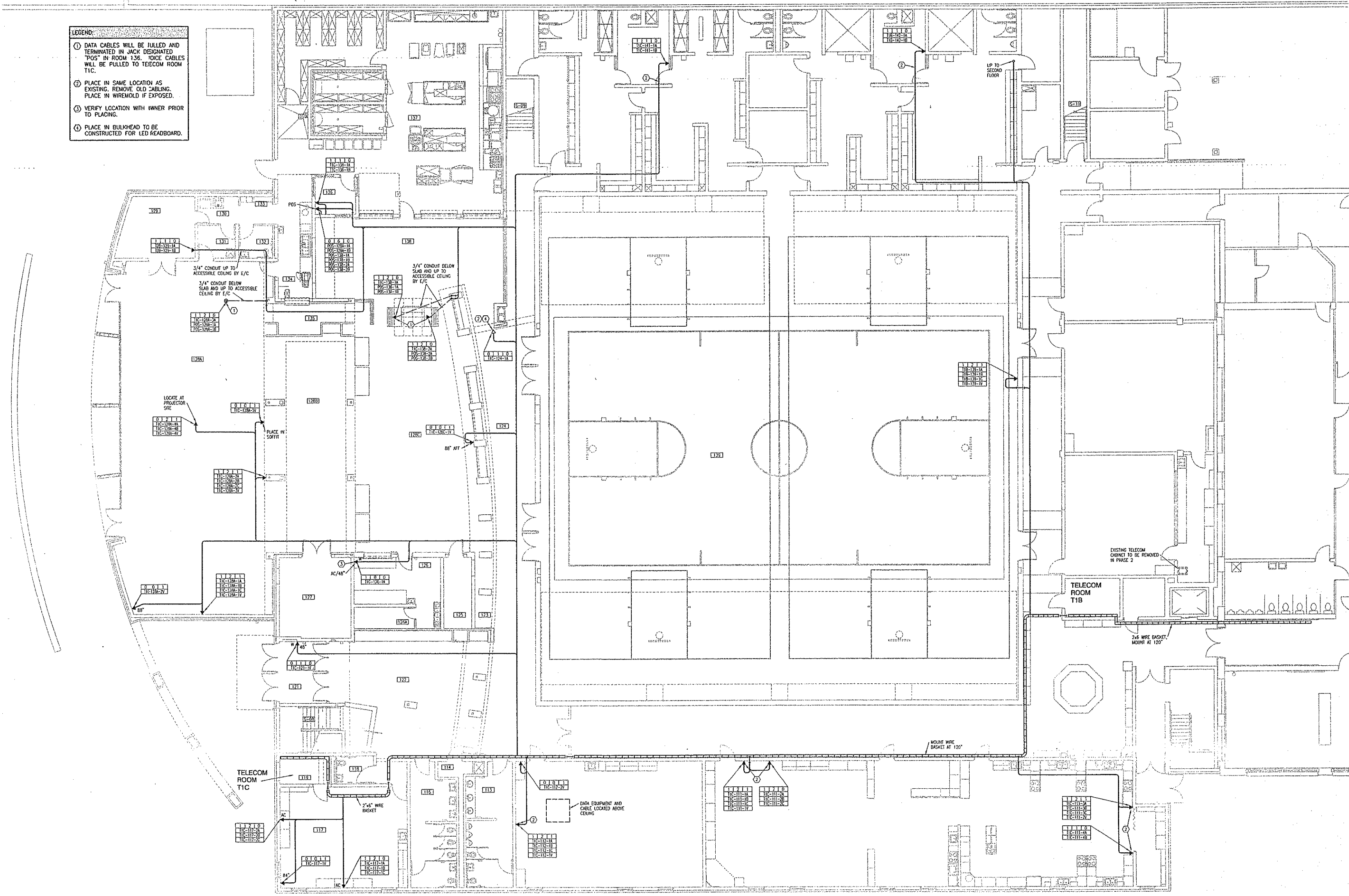
**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
 115 Westport Drive Suite F  
 Manhattan, Kansas 66502  
 (785) 776-8000 (785) 776-9906 FAX



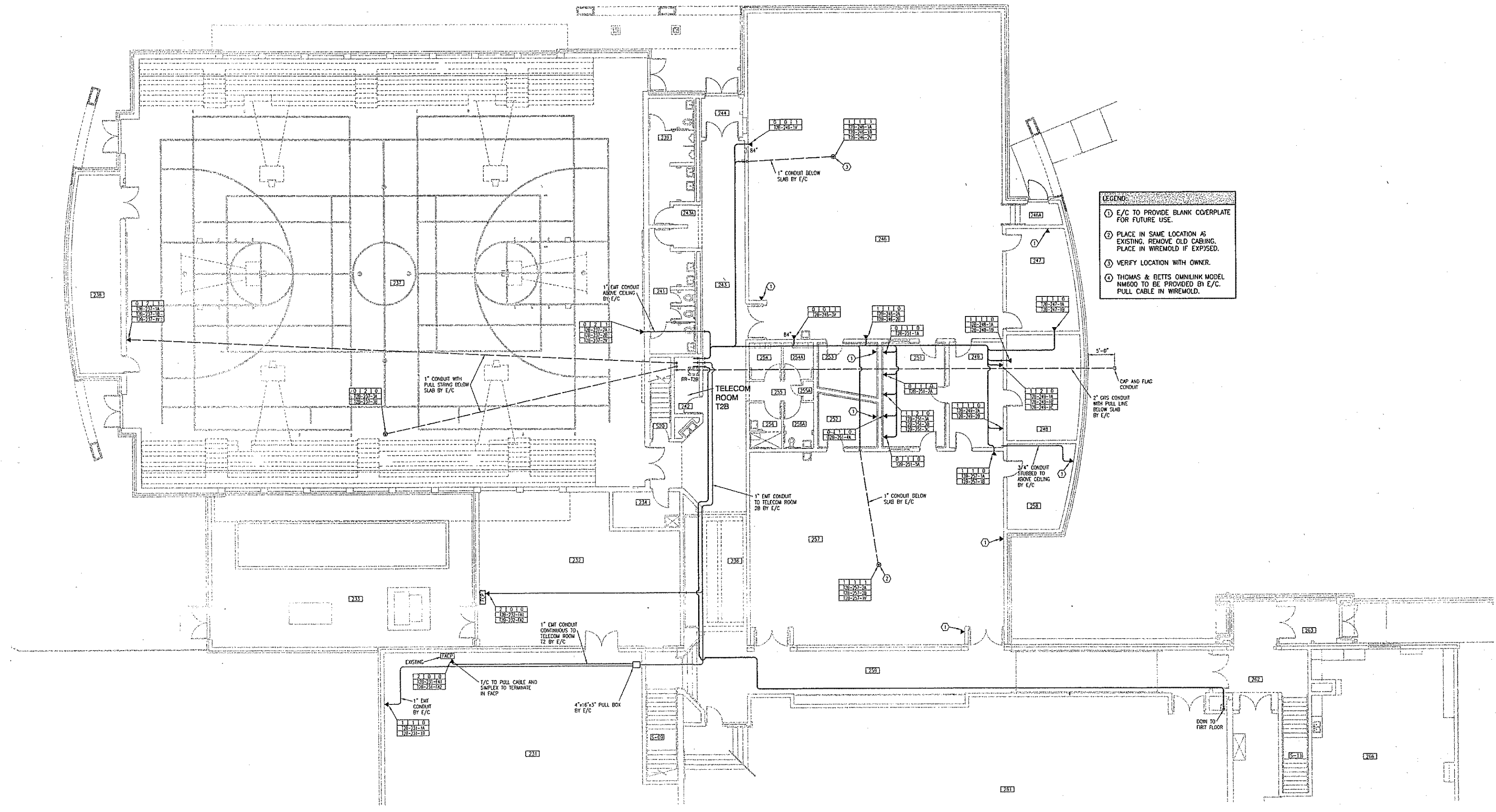

**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**T1.1**  
 FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST TELECOMMUNICATIONS

**LEGEND:**  
 ① DATA CABLES WILL BE TULLED AND TERMINATED IN JACK DESIGNATED "TOS" IN ROOM 135. VOICE CABLES WILL BE PULLED TO TELECOM ROOM TIC.  
 ② PLACE IN SAME LOCATION AS EXISTING. REMOVE OLD CABLING. PLACE IN WIREMOLD IF EXPOSED.  
 ③ VERIFY LOCATION WITH OWNER PRIOR TO PLACING.  
 ④ PLACE IN BULKHEAD TO BE CONSTRUCTED FOR LED KEADBOARD.



11-1493 1/10/05/03 MHT



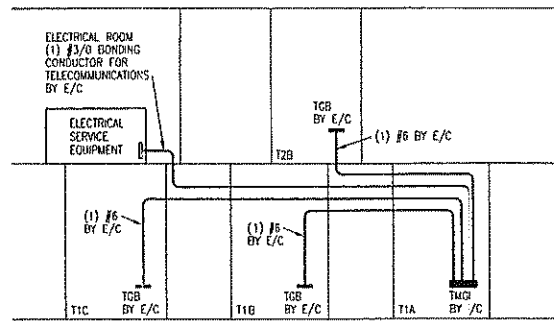
**LEGEND:**  
 ① E/C TO PROVIDE BLANK COVERPLATE FOR FUTURE USE.  
 ② PLACE IN SAME LOCATION AS EXISTING. REMOVE OLD CABING. PLACE IN WIREMOLD IF EXPOSED.  
 ③ VERIFY LOCATION WITH OWNER.  
 ④ THOMAS & BETTS OMNILINK MODEL N1000 TO BE PROVIDED BY E/C. PULL CABLE IN WIREMOLD.

**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8"=1'-0" TELECOMMUNICATIONS

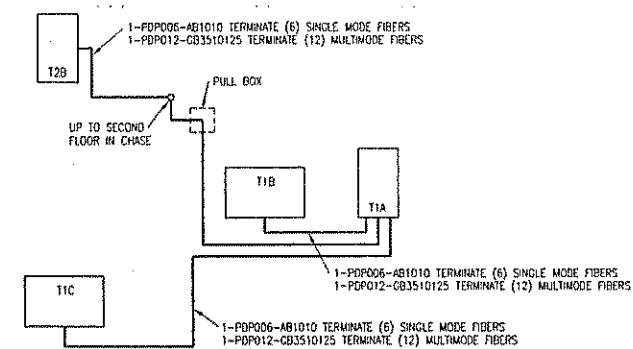


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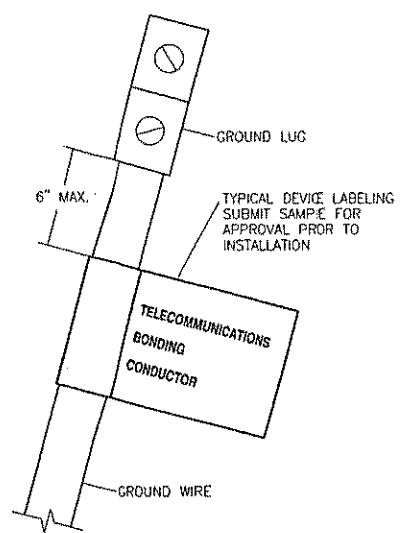
TELECOMMUNICATIONS CABLING SCHEDULE							
MARK	DESCRIPTION	CABLE CONDUCTORS	MANUFACTURER	MODEL NUMBER	NOMINAL O.D.	JACKET COLOR	REMARKS
[1]	CATEGORY 6 PLENUM COPPER CABLE	4	BERK-TEK	10032094	0.215	BLUE	
[2]	CATEGORY 3 PLENUM COPPER CABLE	25	BERK-TEK	10032111	0.382	GRAY	
[3]	SERIES 6 (RG6) PLENUM COAX CABLE	1	COMMSCOPE	2276V			
[4]	25 PAIR VOICE CABLE ASSEMBLY	25	ORTRONICS	OR-80102SP025-1G	0.17	GRAY	
[5]	3 FT CATEGORY 3 PATCH CABLE	4	ORTRONICS	OR-837G1P80030E		GREEN	PROVIDE 40
[6]	5 FT CATEGORY 3 PATCH CABLE	4	ORTRONICS	OR-837G1P80030E		GREEN	PROVIDE 15
[7]	5 FT CATEGORY 6 PATCH CABLE (FOR FCP)	4	ORTRONICS	OR-837G1P80030E-02		RED	PROVIDE 2
[8]	15 FT CATEGORY 6 PATCH CABLE	4	ORTRONICS	OR-837G1P8015DE		GREEN	PROVIDE 25
[9]	CATEGORY 3 PLENUM COPPER CABLE	50	BERK-TEK	10032112	0.525	GRAY	PROVIDE 25



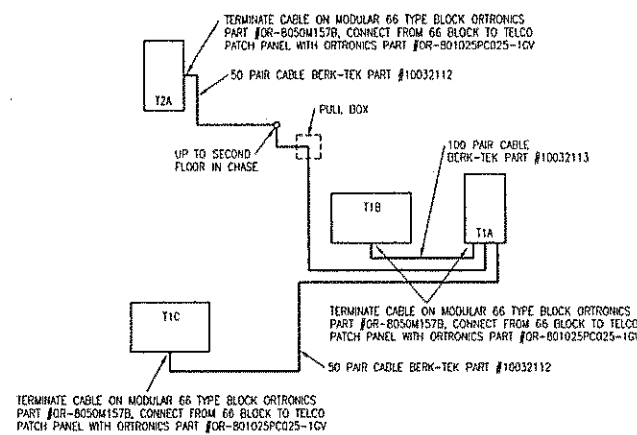
**GROUNDING RISER DIAGRAM**  
NO SCALE



**BACKBONE FIBER CABLE DETAIL**  
NO SCALE

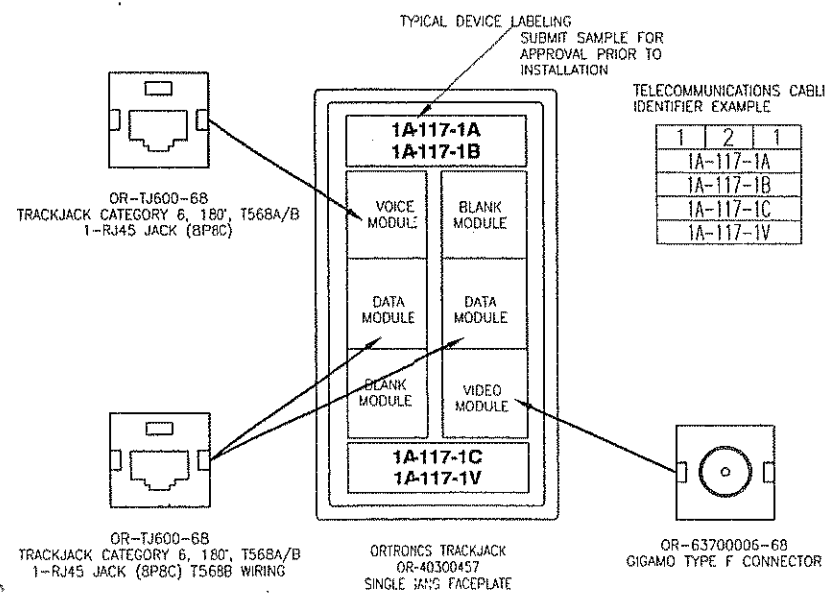


**GROUND WIRE LABEL**  
NO SCALE

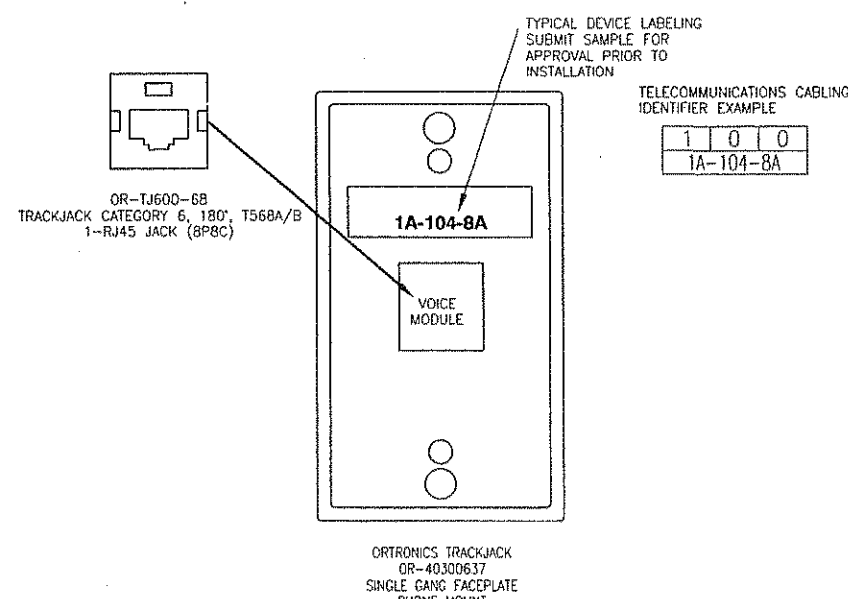


**BACKBONE COPPER CABLE DETAIL**  
NO SCALE

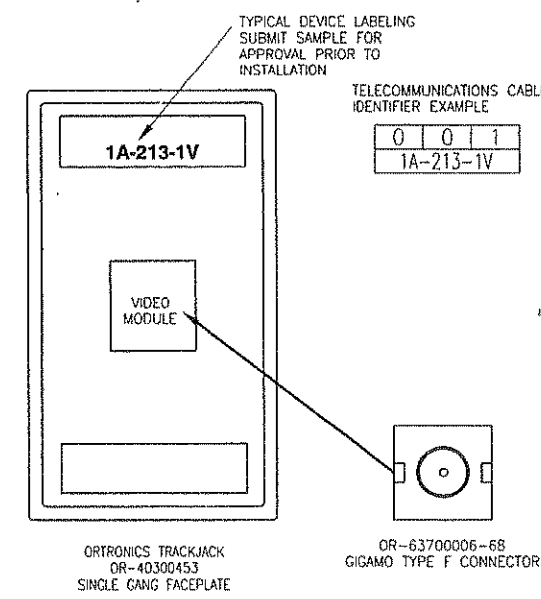
- NOTES:
- PROVIDE BLANK MODULE OR-42100002-28 AS REQUIRED IF THE SPACE IS NOT USED TO FILL THE FACEPLATE.
  - SPLITTING CABLES ACROSS JACKS IS NOT PERMITTED.
  - PROVIDE COLOR CODED VOICE AND DATA TABS OR-40326200 AND OR-40300100.



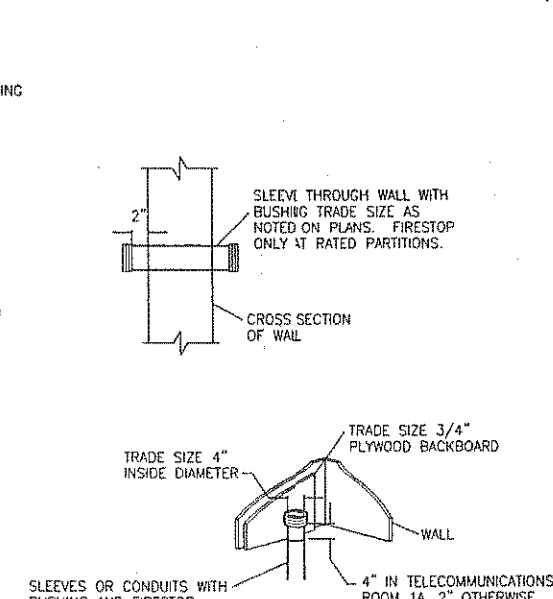
**SINGLE GANG FACEPLATE DETAIL - 1**  
NO SCALE



**SINGLE GANG FACEPLATE DETAIL - 2**  
NO SCALE



**SINGLE GANG FACEPLATE DETAIL - 3**  
NO SCALE



**SLEEVE/CONDUIT DETAIL**  
NO SCALE

MARK	DESCRIPTION	PROVIDED BY	INSTALLED BY	REMARKS
(1)	ORTRONICS OR-40300457	T/C	T/C	TRACJACK SINGLE GANG 6-PLEX FACEPLATE
(2)	ORTRONICS OR-40300637	T/C	T/C	WALL PHONE FACEPLATE
(3)	ORTRONICS OR-40300453	T/C	T/C	TRACJACK SINGLE GANG SIMPLEX FACEPLATE
(4)	ORTRONICS OR-TJ600-68	T/C	T/C	CATEGORY 6 1568 A/B TRACJACK MODULE
(5)	ORTRONICS OR-42100002-68	T/C	T/C	TRACJACK BLANK
(6)	ORTRONICS OR-63700006-68	T/C	T/C	TRACJACK F-CONNECTOR
(7)	ORTRONICS OR-40300100	T/C	T/C	VOICE COLOR CODED TABS - BLACK (VOICE)
(8)	ORTRONICS OR-40326200	T/C	T/C	DATA COLOR CODED TABS - BLUE (DATA)
(9)	ORTRONICS OR-40324200	T/C	T/C	DATA COLOR CODED TABS - YELLOW (VACANT)
(10)	ORTRONICS OR-PSD60448	T/C	T/C	48 PORT CATEGORY 6 PATCH PANEL
(11)	ORTRONICS OR-41700107	T/C	T/C	CABLE MANAGEMENT WATERFALL (FOR BACKSIDE OF RACK)
(12)	ORTRONICS OR-80804723	T/C	T/C	48 PORT TELCO PATCH PANEL
(13)	ORTRONICS OR-60400426	T/C	T/C	WIRE MANAGEMENT PANEL
(14)	ORTRONICS OR-60400435	T/C	T/C	4"x7" VERTICAL CABLE MANAGEMENT
(15)	ORTRONICS OR-20400089	T/C	T/C	VIDEO PANEL (1x8)
(16)	ORTRONICS OR-40100791	T/C	T/C	BLANK FILLER PANEL
(17)	ORTRONICS OR-401045390	T/C	T/C	PATCH PANEL KIT
(18)	ORTRONICS OR-60400169	T/C	T/C	MOCKY MD IN CABLE MOUNT RACK
(19)	FLEXTRAY FT2X06X106LE	T/C	T/C	WIRE BASKET (BLACK)
(20)	THOMAS & BETTS GF6AMP328	T/C	T/C	RG6 COAX CONNECTOR
(21)	ORTRONICS OR-40300575	T/C	T/C	MODULAR FURNITURE BEZEL
(22)	ORTRONICS OR-30200145	T/C	T/C	100 PAIR 110 WIRING BLOCK
(23)	ORTRONICS OR-60404486	T/C	T/C	VENEED EQUIPMENT SHELVES
(24)	ORTRONICS OR-60400433	T/C	T/C	6"x7" VERTICAL CABLE MANAGEMENT
(25)	ORTRONICS OR-604045451	T/C	T/C	WALL MOUNTED RACK
(26)	ORTRONICS OR-808004722	T/C	T/C	24 PORT TELCO PATCH PANEL
(27)	ORTRONICS OR-625MM-12PG1RB	T/C	T/C	12 PORT SINGLE MODE FIBER TERM
(28)	ORTRONICS OR-625MM-12PF1RB	T/C	T/C	12 PORT MULTI MODE FIBER TERM
(29)	ORTRONICS OR-60400438	T/C	T/C	VERTICAL CABLE FINGER DUCT WITH COVER
(30)	ORTRONICS OR-5090005T	T/C	T/C	POWER STRIP - 20 AMP
(31)	ORTRONICS OR-PSD65024	T/C	T/C	24 PORT CATEGORY 6 PATCH PANEL

**RACK DETAIL - ROOM T1C**  
NO SCALE

TELECOMMUNICATIONS HARDWARE SCHEDULE						
MARK	MANUFACTURER	MODEL/PART NUMBER	PROVIDED BY	INSTALLED BY	DESCRIPTION	REMARKS
(1)	ORTRONICS	OR-40300457	T/C	T/C	TRACJACK SINGLE GANG 6-PLEX FACEPLATE	
(2)	ORTRONICS	OR-40300637	T/C	T/C	WALL PHONE FACEPLATE	
(3)	ORTRONICS	OR-40300453	T/C	T/C	TRACJACK SINGLE GANG SIMPLEX FACEPLATE	
(4)	ORTRONICS	OR-TJ600-68	T/C	T/C	CATEGORY 6 1568 A/B TRACJACK MODULE	2, 3
(5)	ORTRONICS	OR-42100002-68	T/C	T/C	TRACJACK BLANK	3
(6)	ORTRONICS	OR-63700006-68	T/C	T/C	TRACJACK F-CONNECTOR	3
(7)	ORTRONICS	OR-40300100	T/C	T/C	VOICE COLOR CODED TABS - BLACK (VOICE)	
(8)	ORTRONICS	OR-40326200	T/C	T/C	DATA COLOR CODED TABS - BLUE (DATA)	
(9)	ORTRONICS	OR-40324200	T/C	T/C	DATA COLOR CODED TABS - YELLOW (VACANT)	
(10)	ORTRONICS	OR-PSD60448	T/C	T/C	48 PORT CATEGORY 6 PATCH PANEL	2
(11)	ORTRONICS	OR-41700107	T/C	T/C	CABLE MANAGEMENT WATERFALL (FOR BACKSIDE OF RACK)	
(12)	ORTRONICS	OR-80804723	T/C	T/C	48 PORT TELCO PATCH PANEL	
(13)	ORTRONICS	OR-60400426	T/C	T/C	WIRE MANAGEMENT PANEL	
(14)	ORTRONICS	OR-60400435	T/C	T/C	4"x7" VERTICAL CABLE MANAGEMENT	
(15)	ORTRONICS	OR-20400089	T/C	T/C	VIDEO PANEL (1x8)	
(16)	ORTRONICS	OR-40100791	T/C	T/C	BLANK FILLER PANEL	
(17)	ORTRONICS	OR-401045390	T/C	T/C	PATCH PANEL KIT	
(18)	ORTRONICS	OR-60400169	T/C	T/C	MOCKY MD IN CABLE MOUNT RACK	
(19)	FLEXTRAY	FT2X06X106LE	T/C	T/C	WIRE BASKET (BLACK)	1
(20)	THOMAS & BETTS	GF6AMP328	T/C	T/C	RG6 COAX CONNECTOR	
(21)	ORTRONICS	OR-40300575	T/C	T/C	MODULAR FURNITURE BEZEL	4
(22)	ORTRONICS	OR-30200145	T/C	T/C	100 PAIR 110 WIRING BLOCK	5
(23)	ORTRONICS	OR-60404486	T/C	T/C	VENEED EQUIPMENT SHELVES	
(24)	ORTRONICS	OR-60400433	T/C	T/C	6"x7" VERTICAL CABLE MANAGEMENT	
(25)	ORTRONICS	OR-604045451	T/C	T/C	WALL MOUNTED RACK	
(26)	ORTRONICS	OR-808004722	T/C	T/C	24 PORT TELCO PATCH PANEL	
(27)	ORTRONICS	OR-625MM-12PG1RB	T/C	T/C	12 PORT SINGLE MODE FIBER TERM	
(28)	ORTRONICS	OR-625MM-12PF1RB	T/C	T/C	12 PORT MULTI MODE FIBER TERM	
(29)	ORTRONICS	OR-60400438	T/C	T/C	VERTICAL CABLE FINGER DUCT WITH COVER	
(30)	ORTRONICS	OR-5090005T	T/C	T/C	POWER STRIP - 20 AMP	
(31)	ORTRONICS	OR-PSD65024	T/C	T/C	24 PORT CATEGORY 6 PATCH PANEL	

- REMARKS:
- PROVIDE ASSOCIATED HARDWARE COMPONENTS TO COMPLETE INSTALLATION PER MFG REQUIREMENTS.
  - WIRE CABLING 1568B.
  - BLACK JACKS FOR FLOOR BOXES, POKE THRU, AND RACKS. GRAY FOR WALL PLATES.
  - VERIFY FURNITURE MANUFACTURE AND COLOR PRIOR TO ORDERING/INSTALLATION.
  - PROVIDE WITH OR-30200110 110C CONNECTING BLOCKS.

TELECOMMUNICATIONS PULL BOX SIZING SCHEDULE				
CONDUIT TRADE SIZE	WIDTH (INCHES)	LENGTH (INCHES)	DEPTH (INCHES)	WIDTH INCREASE FOR ADDITIONAL CONDUIT
3/4"	4	12	3	2
1"	4	16	3	2
1 1/4"	6	20	3	3
1 1/2"	8	27	4	4
2"	8	36	4	5
2 1/2"	10	42	5	6
3"	12	48	5	6
3 1/2"	12	54	6	6
4"	15	60	8	8

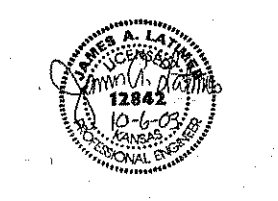
- GENERAL NOTES:
- CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO INSTALLATION.
  - T/C INSTALL FIRE STOP IN ALL SLEEVES AND CONDUITS LOCATED IN RATED PARTITIONS. INSTALL PER MANUFACTURERS LISTED UL SYSTEM.
  - PROVIDE 12" OF SLACK AFTER TERMINATION TO FACILITATE FUTURE RE-TERMINATIONS AT USER END OF ALL STATION CABLES IN THE OUTLET BOX.
  - E/C TO COORDINATE LOCATIONS OF CONDUITS AND SLEEVES WITH T/C TO ENSURE AN OBSTRUCTION FREE PATHWAY.
  - E/C TO INSTALL BUSHINGS ON ALL CONDUITS AND SLEEVES PRIOR TO T/C PULLING CABLING.

LEGEND:	
▼	TELECOMMUNICATIONS OUTLET *
▼▼	TELECOMMUNICATIONS OUTLET WALL PHONE PLATE *
▼▼	TELECOMMUNICATIONS OUTLET CEILING MOUNTED *
⊕	DUPLEX RECEPTACLE
⊕	FOURPLEX RECEPTACLE
■	SURFACE PANELBOARD BY E/C
□	WIRE BASKET RUNWAY
—	ABOVE FINISHED FLOOR
T/C	TELECOMMUNICATIONS CONTRACTOR
E/C	ELECTRICAL CONTRACTOR
G/C	GENERAL CONTRACTOR
AC	DEVICE LOCATED ABOVE COUNTER
MG	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
—	EMT SLEEVE/CONDUIT (1" UNLESS NOTED OTHERWISE) BY E/C
—	TELECOMMUNICATIONS CABLING **
[ATCP]	AUTOMATIC TEMPERATURE CONTROL PANEL
[FACP]	FIRE ALARM CONTROL PANEL
SM	SINGLEMODE FIBER
MM	MULTIMODE FIBER
VOICE/DATA/VIDEO TELECOM OUTLET #	TELECOMMUNICATIONS CABLING IDENTIFIER

- \* 4x4 BACKBOX W/ SINGLE GANG PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING BY E/C.  
\*\* CABLING SHALL BE SUPPORTED WITH J-HOOKS AT 48" O.C. WHERE NOT IN CONDUIT.

PROJECT NO. 9920.09  
DATE OCT 2009  
DRAWN BY CAD  
REVISION

**The Ken Ebert Design Group**  
Architects and Planning Consultants  
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(785) 776-1800

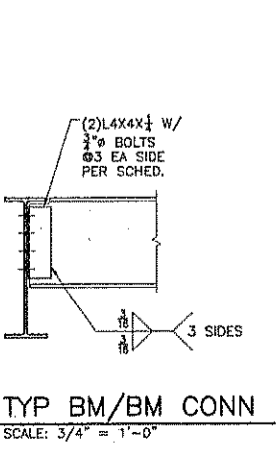
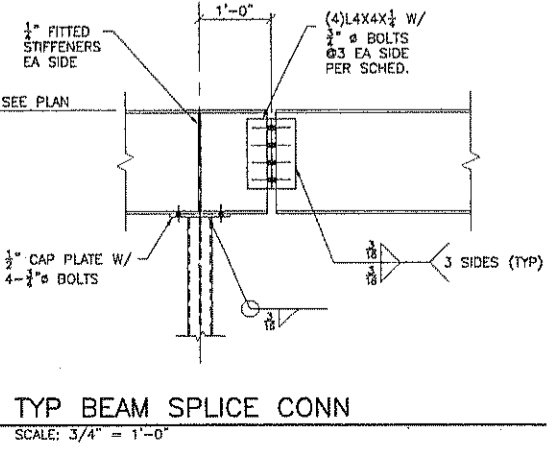
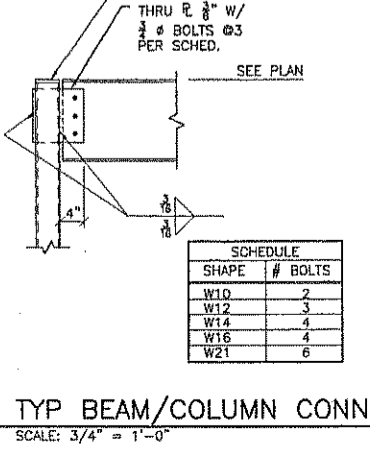
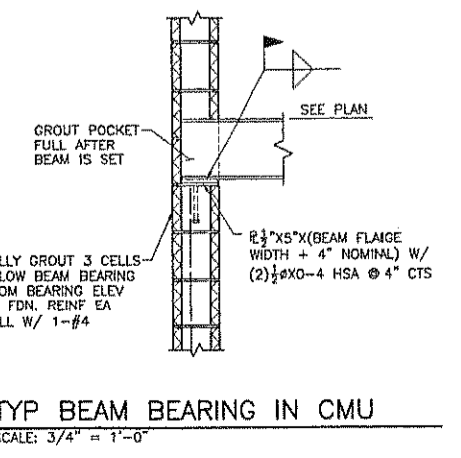
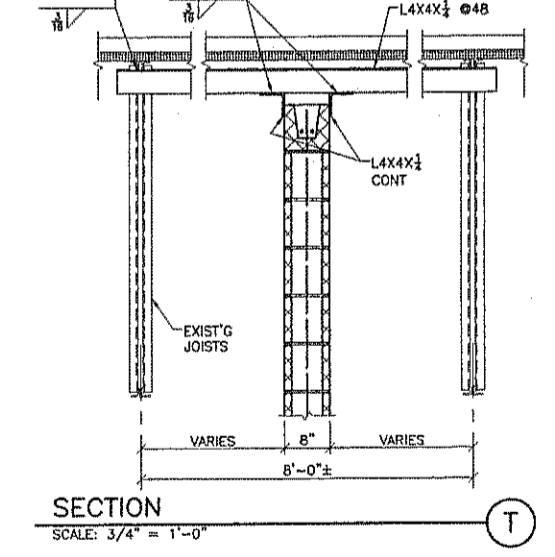
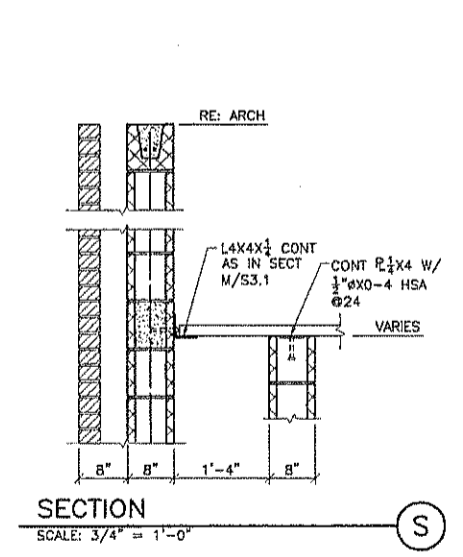
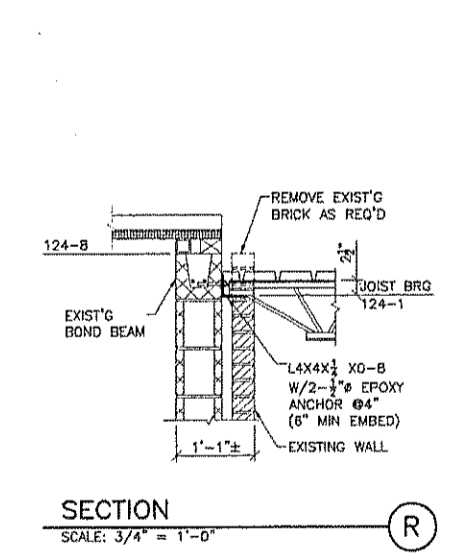
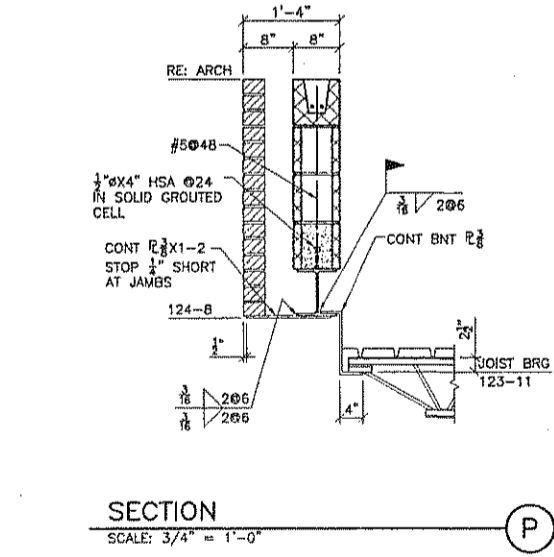
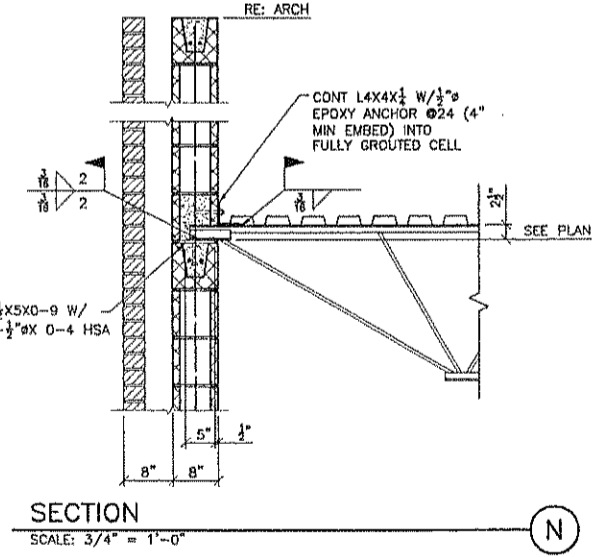
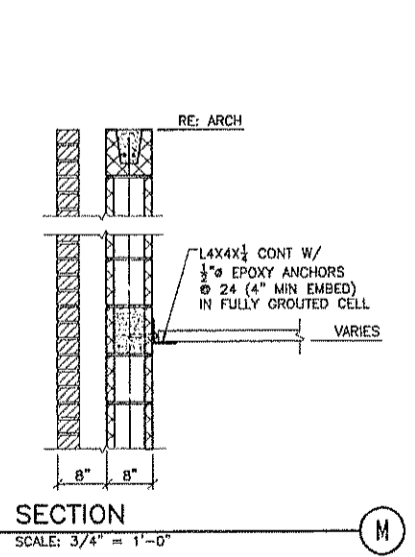
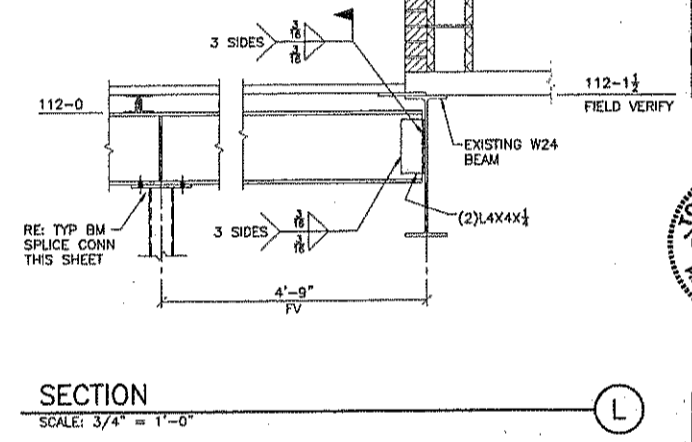
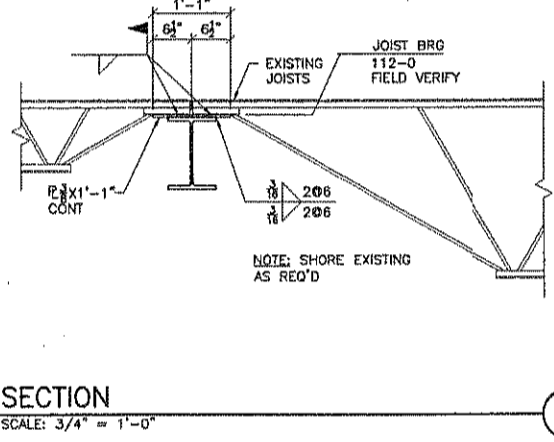
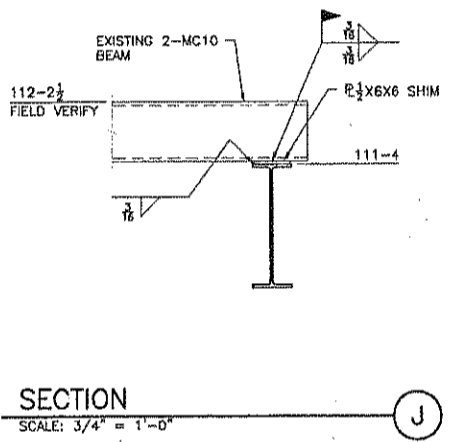
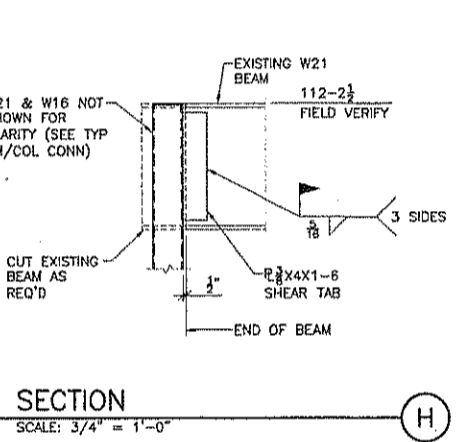
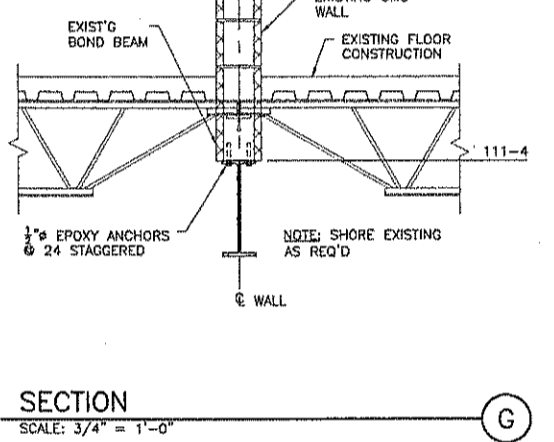
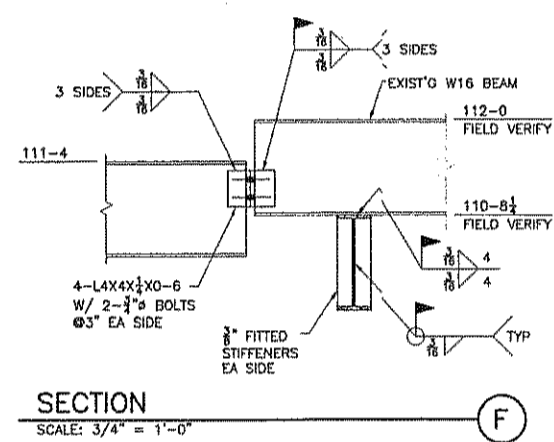
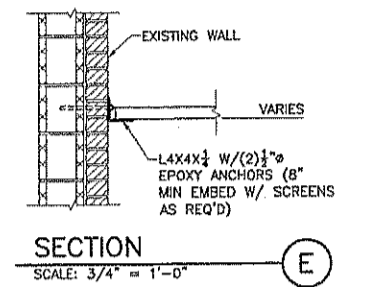
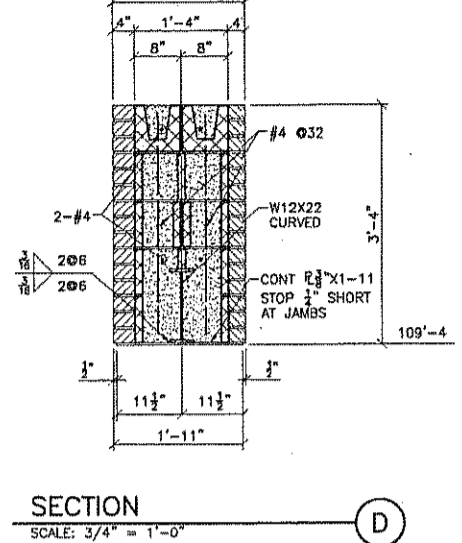
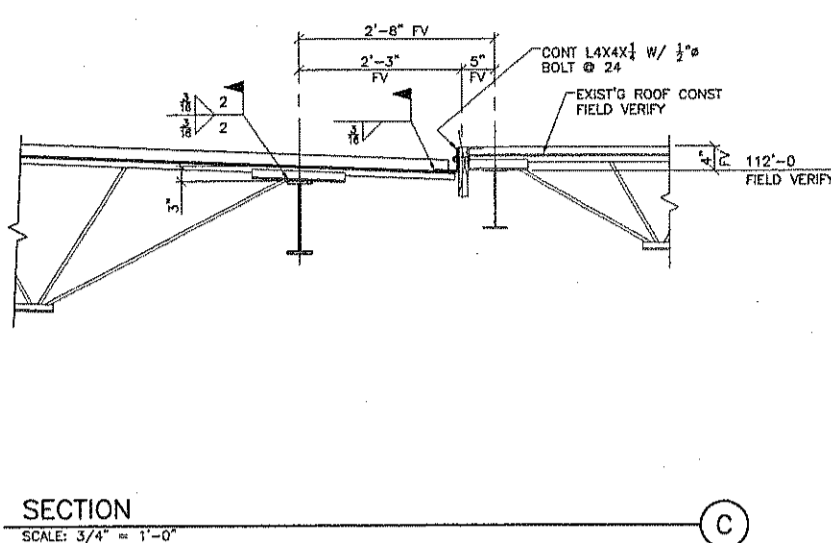
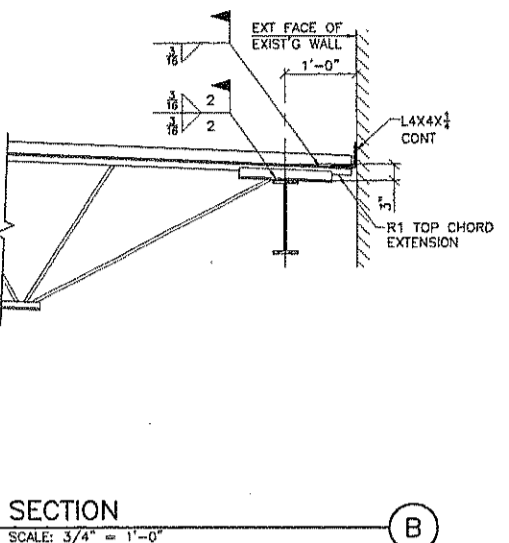
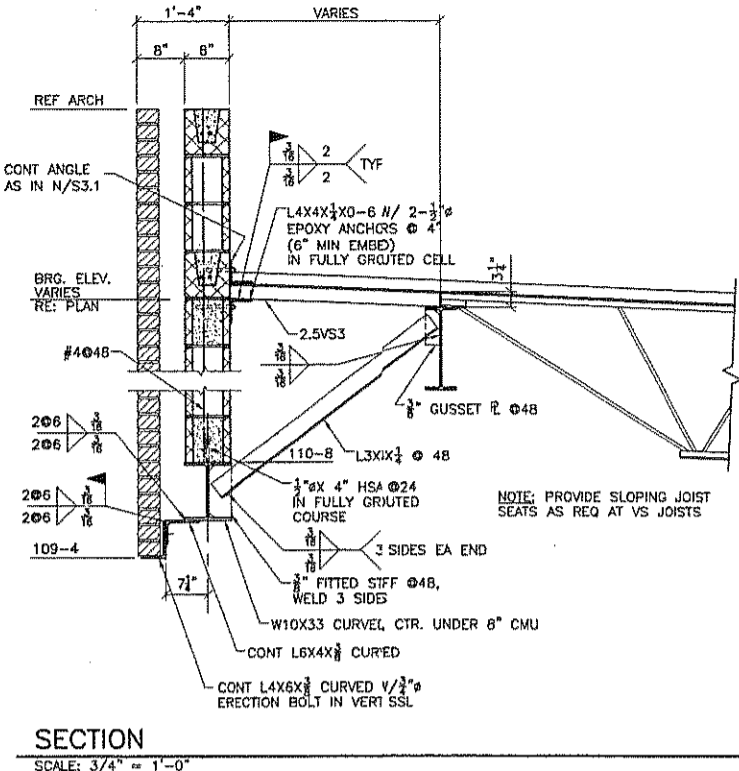


**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**T1.3**  
TELECOMMUNICATIONS DETAILS

**LS & A**  
Lattner, Sommers & Associates, P.A., Engineers  
3653 SW Sumnerfield Drive, Suite A  
Topeka, KS 66614-3972  
Telephone: (785) 233-3232 • FAX: (785) 233-0647  
Email: lsapa@lsapa.com

Drawing name: F:\13100\13100\01\Structural\Drawings\Wamego High Phase 1\13100-000 - S3.1 Roof Framing Sections.dwg Plotted on: Oct 06, 2003 - 1:51pm Plotted by: scs00268



PROJECT NO 9928.03  
DATE OCT 2003  
DRAWN BY LSA  
REVISION

**The Ken Ebert Design Group**  
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1115 Westport Drive Suite F  
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**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**S3.1**  
FRAMING  
SECTIONS/DETAILS I

**BARTLETT & WEST**  
ENGINEERS



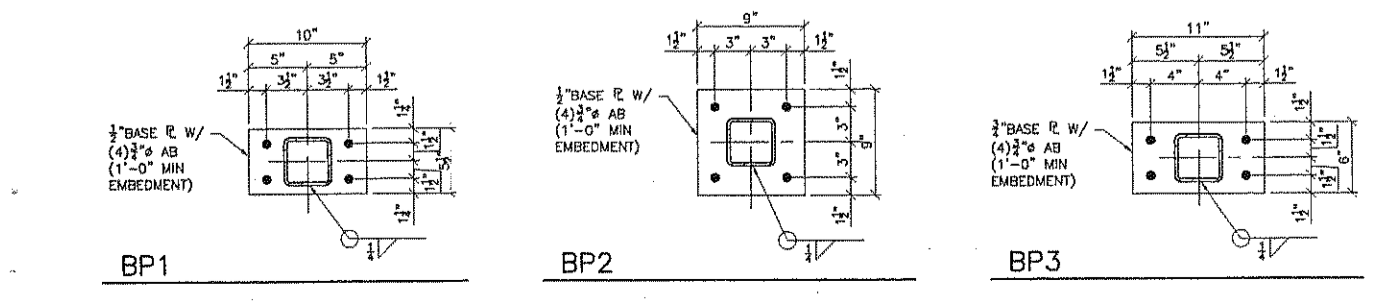
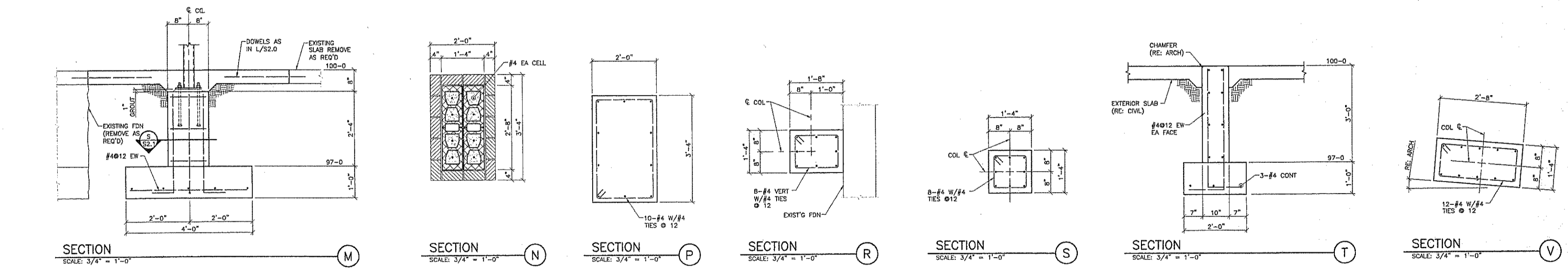
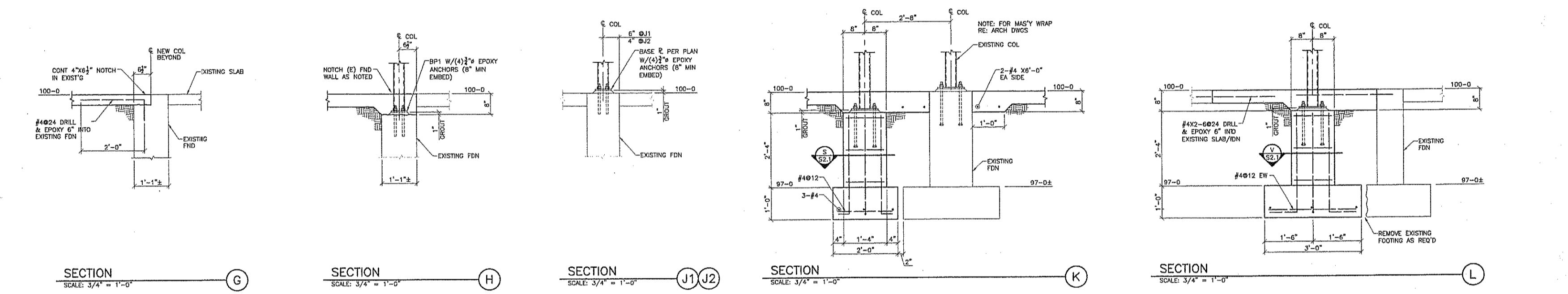
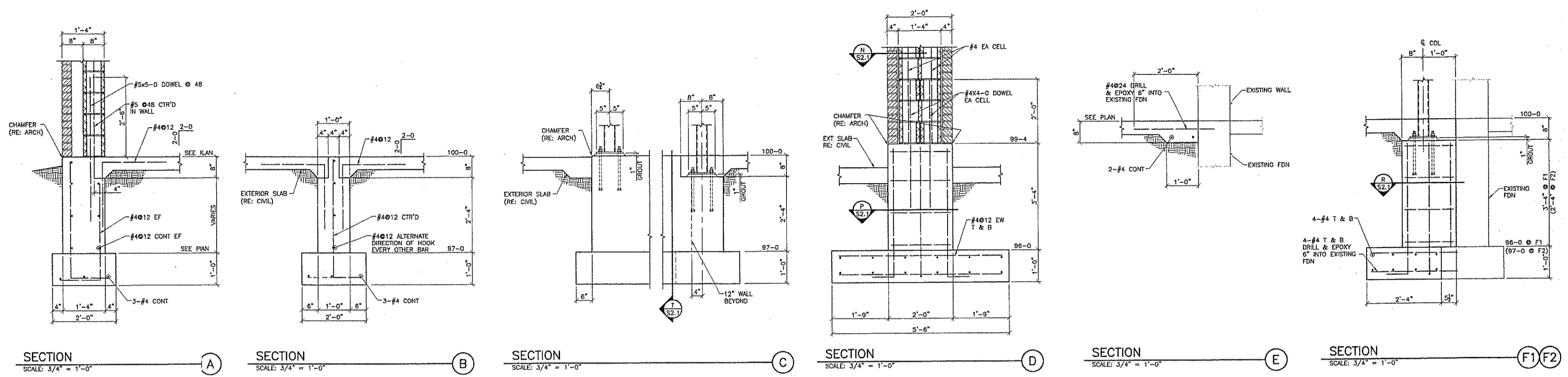
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 Manhattan, Kansas 66502  
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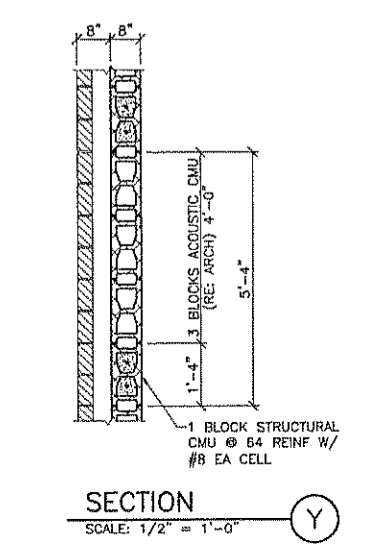
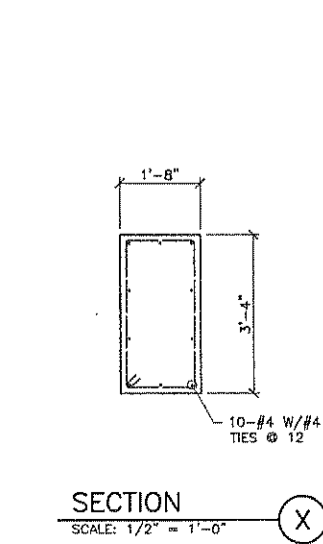
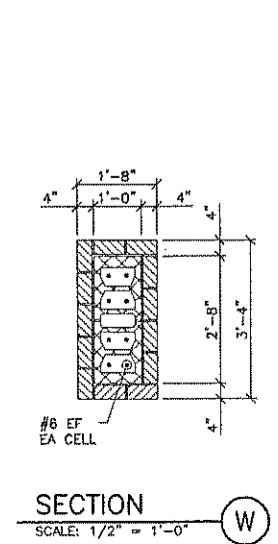
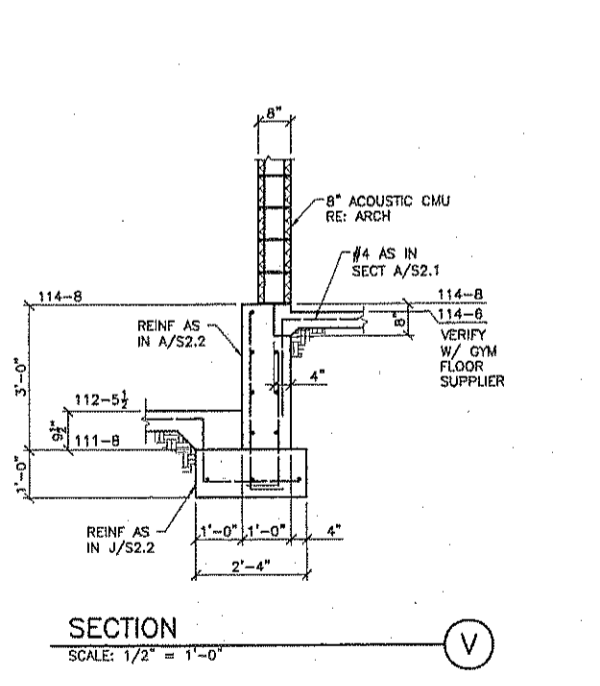
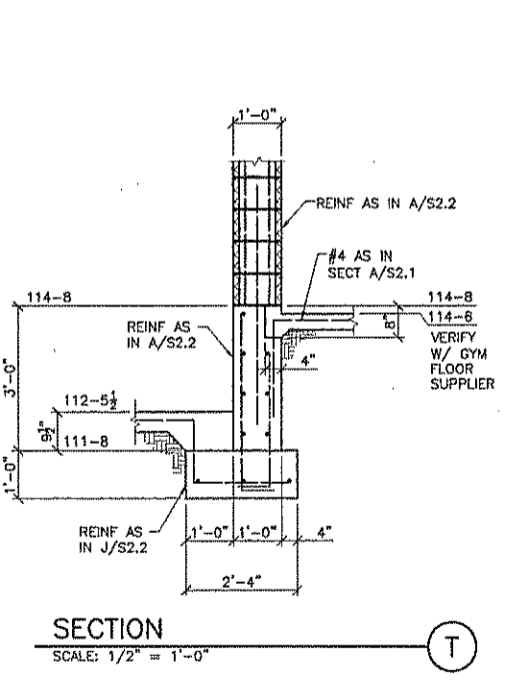
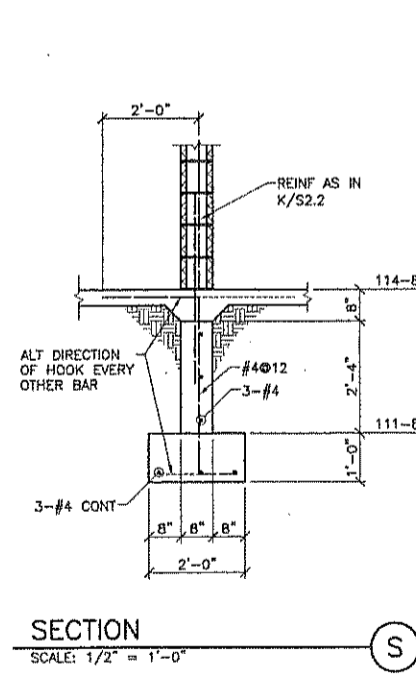
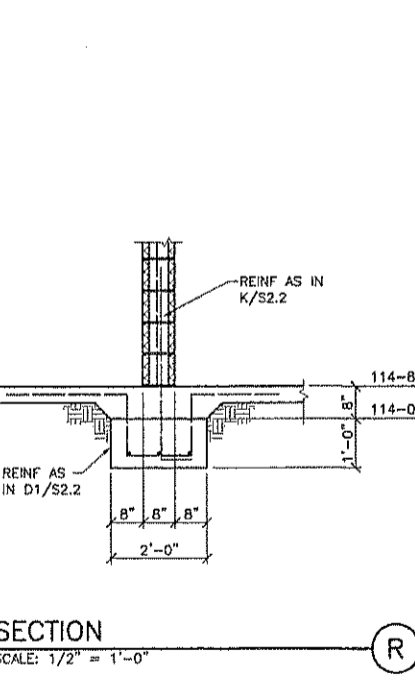
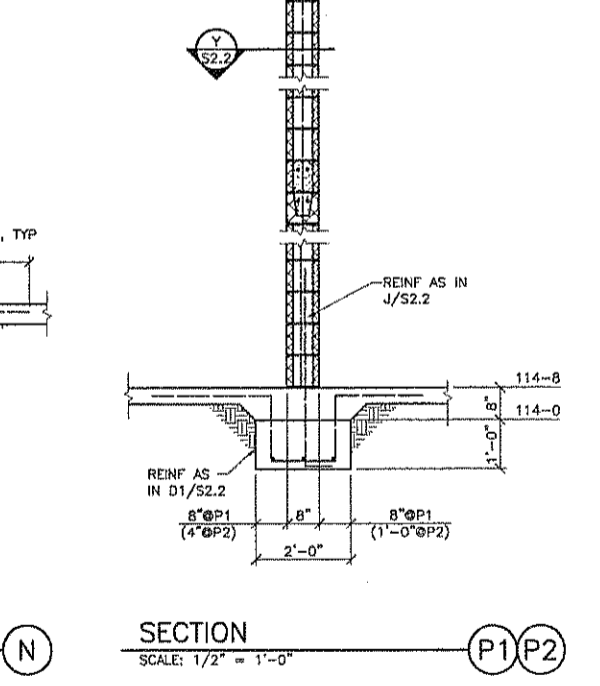
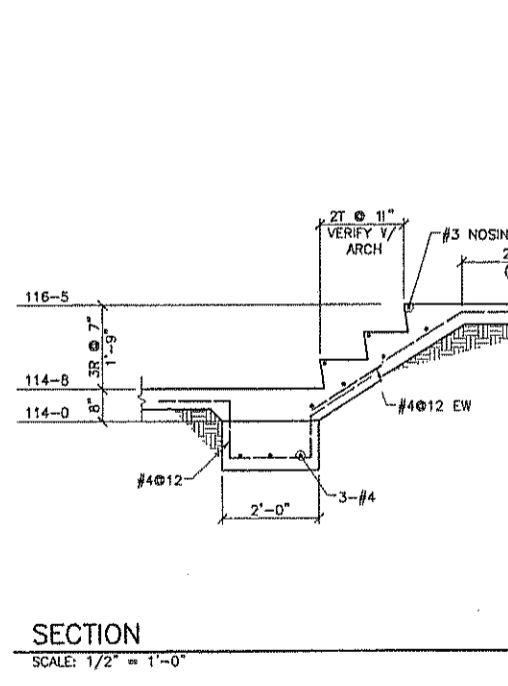
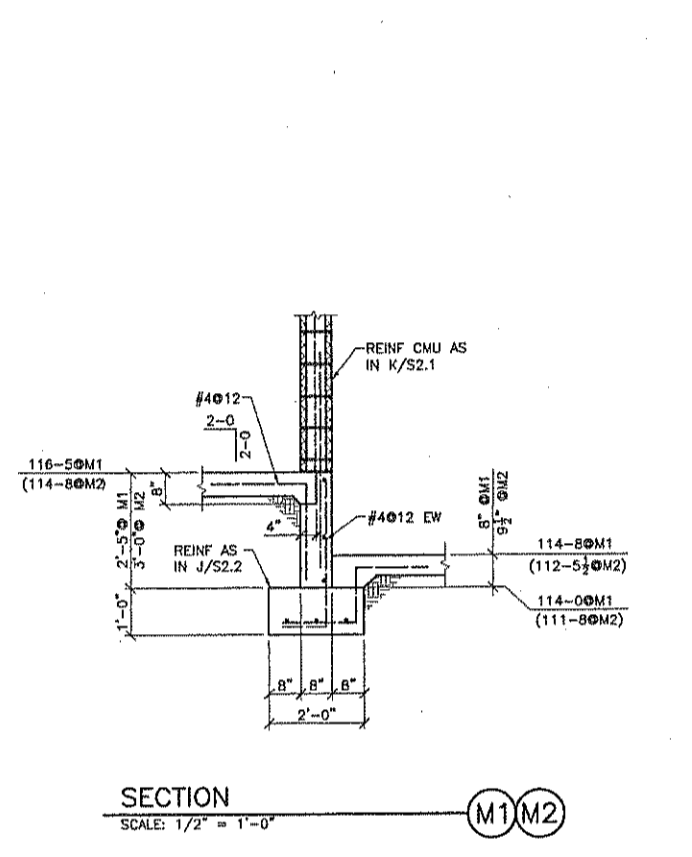
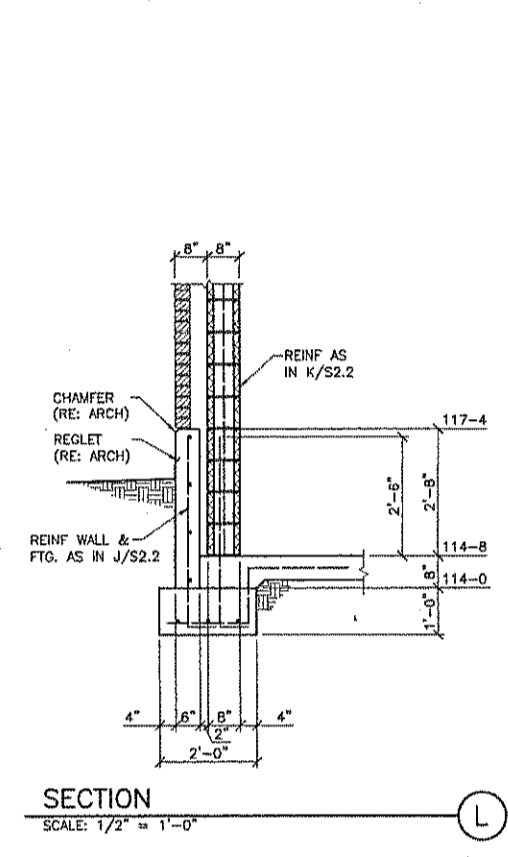
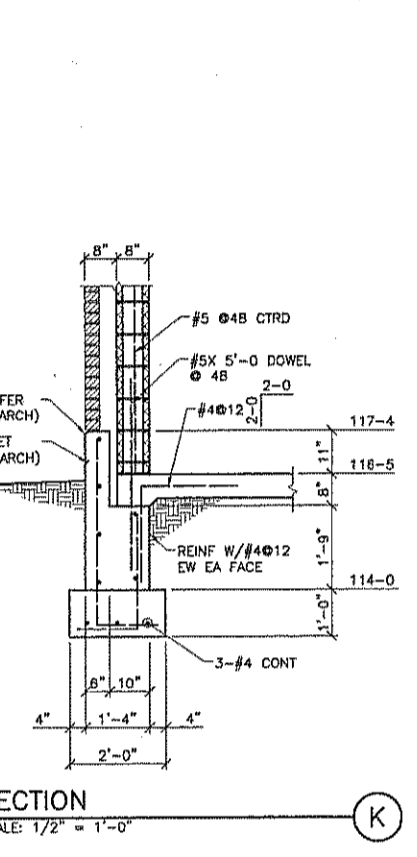
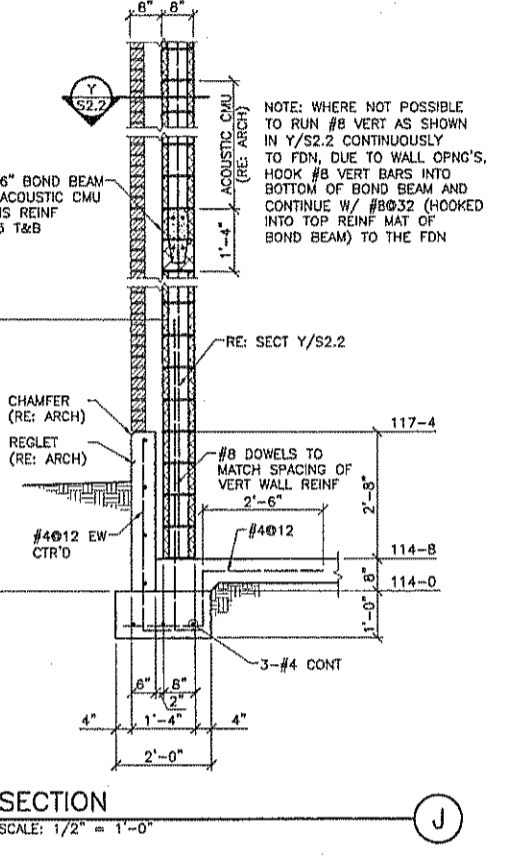
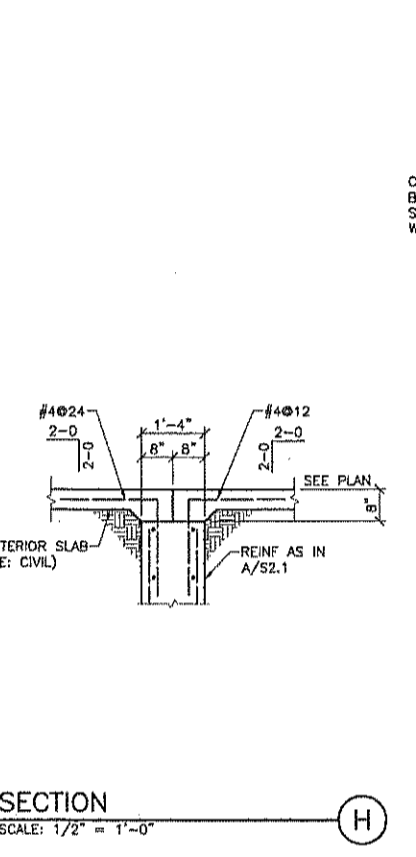
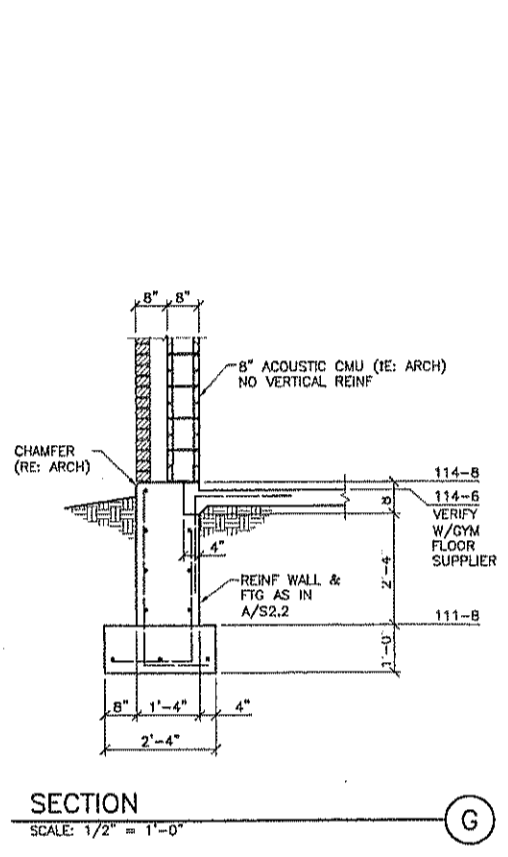
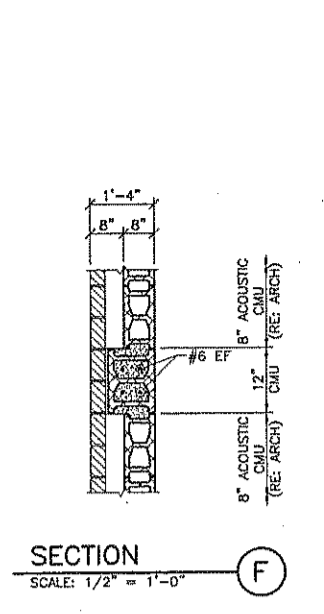
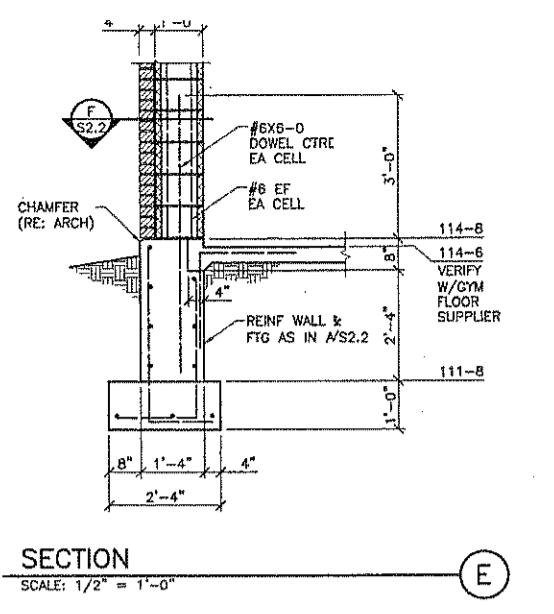
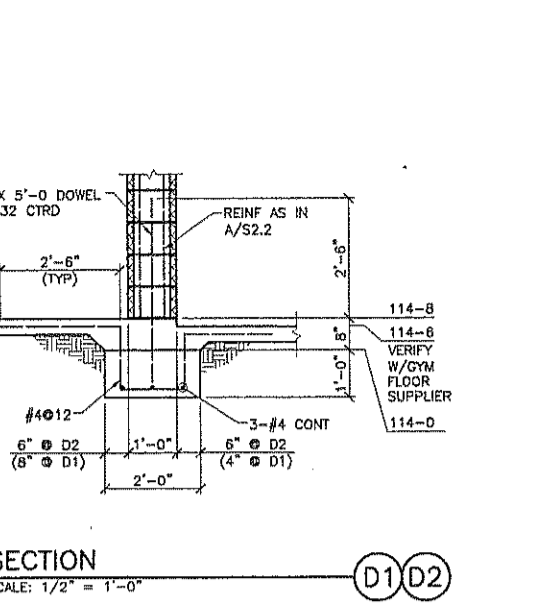
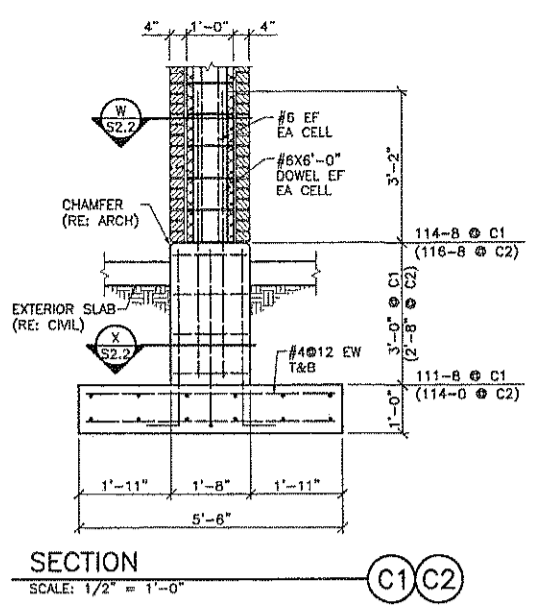
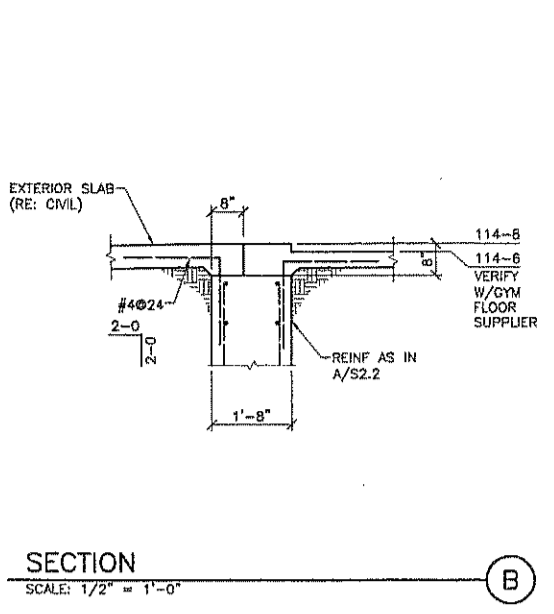
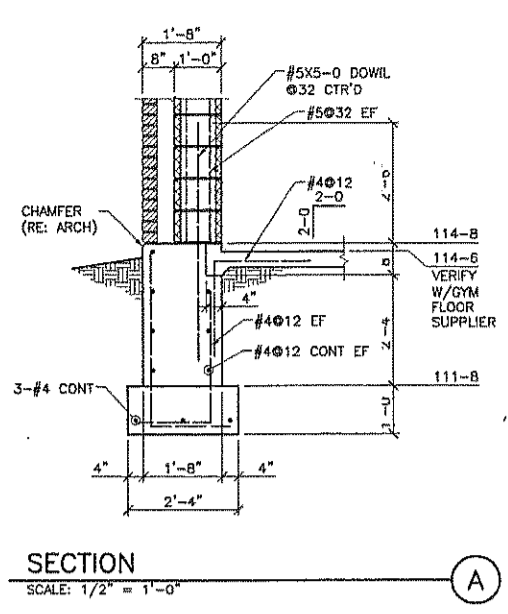
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET S2.1**  
 FOUNDATION SECTIONS/DETAILS I

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Drawing name: F:\13820000\13820000\Structural\Drawings\Wamego High Phase 1\13820000 - S2.2 Foundation\Sections.dwg Plotted on: Oct 05, 2003 4:14pm Plotted by: lsc00202



NOTE: WHERE NOT POSSIBLE TO RUN #6 VERT AS SHOWN IN Y/S2.2 CONTINUOUSLY TO FDN, DUE TO WALL OPEN'GS, HOOK #6 VERT BARS INTO BOTTOM OF BOND BEAM AND CONTINUE W/ #8032 (HOOKED INTO TOP REIN MAT OF BOND BEAM) TO THE FDN

PROJECT NO 4428.03  
DATE OCT 2003  
DRAWN BY LSA  
REVISION

The Ken Ebert Design Group  
Architects and Planning Consultants  
115 Westport Drive Suite F  
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Wamego High School Improvements  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

SHEET  
S2.2  
FOUNDATION  
SECTIONS/DETAILS I

BARTLETT & WEST  
ENGINEERS  
1400 SW BRADLEY AVENUE - TOP FLOOR SUITE 600  
PHOTO: 781-252-5232 FAX: 781-252-7234  
WWW.BARTLETTWEST.COM

13820000





**STRUCTURAL GENERAL NOTES.**

**A. DESIGN**

- CODES (LATEST EDITIONS)
  - DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2000 INTERNATIONAL BUILDING CODE AS AMENDED AND ADOPTED BY THE CITY OF WAMEGO, KANSAS.
  - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
  - SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC).
  - SPECIFICATIONS, LOAD TABLES, AND WEIGHT TABLES FOR STEEL JOISTS (SJI).
  - STEEL DECK INSTITUTE DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS.
  - SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF LOAD BEARING MASONRY (ACI 530).
  - AMERICAN WELDING SOCIETY STANDARDS AND SPECIFICATIONS.

**2. LOADS:**

ROOF LOAD (BASIC) (SNOW DRIFTING ADDITIONAL) 20 PSF

WIND LOAD:  
WIND SPEED = 90 MPH  
EXPOSURE C

SEISMIC LOAD:  
SEISMIC USE GROUP II  
SEISMIC DESIGN CATEGORY B  
SITE CLASS D

MEZZANINE FLOOR LIVE LOAD = 100 PSF

STAIRS AND EXITWAYS LIVE LOAD 100 PSF

- VERIFY ALL DIMENSIONS BEFORE BEGINNING WORK. CHECK WITH ELECTRICAL AND MECHANICAL CONTRACTOR FOR CONDUIT, PIPE SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE, AS WELL AS OPENINGS IN STRUCTURE FOR MECHANICAL AND ELECTRICAL INSTALLATIONS.
- SHOP DETAILS, ERECTION AND PLACING DIAGRAMS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER/ARCHITECT BEFORE FABRICATION, SUBMIT PER SPECIFICATION.
- PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADING DUE TO CONSTRUCTION.

**B. EARTHWORK**

- REFERENCED GEOTECHNICAL REPORT - ADDITIONS TO WAMEGO HIGH SCHOOL AND WAMEGO WEST ELEMENTARY SCHOOL, WAMEGO, KANSAS DATED JULY 2, 2003 BY TERRACON.
- SPREAD FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE BEARING PRESSURE OF 2000 PSF.
- ALL FOOTING BEARING MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE CONCRETE IS PLACED.
- UNUSUAL CONDITIONS OR REQUIRED CHANGES IN FOUNDATION AS REQUIRED BY FIELD CONDITIONS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL BEFORE CHANGES ARE MADE.
- FOR DETAILS OF FILL AND COMPACTION REQUIREMENTS REFER TO SPECIFICATIONS.
- FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO (2) FEET ON EITHER SIDE AT ANY TIME. WALL BACKFILL SHALL NOT BE PLACED BEFORE THE INTERIOR FLOOR SLAB IS PLACED.
- AT STEPPED FOOTINGS THE LOWER FOOTING SHALL BE PLACED FIRST.

**C. CONCRETE:**

- CONCRETE USED IN THE WORK SHALL HAVE THE FOLLOWING MINIMUM ULTIMATE STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED:  
FOOTINGS AND INTERIOR SLAB-ON-GRADE 3,000 PSI  
FOUNDATION WALLS 3,000 PSI
- ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM ULTIMATE STRENGTH AT 28 DAYS OF 4000 PSI AND BE AIR ENTRAINED.
- SLEEVES, OPENINGS, OR OTHER ATTACHMENTS NOT SHOWN ON DRAWINGS SHALL BE APPROVED BY THE ENGINEER/ARCHITECT PRIOR TO PLACING CONCRETE.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 SPECIFICATIONS, GRADE 60.
- MAINTAIN MINIMUM CONCRETE COVERAGE FOR REINFORCING AS FOLLOWS UNLESS OTHERWISE INDICATED:  
A. 3" CLEAR WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH.  
B. 2" CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER BUT POURING AGAINST FORMS FOR BARS #6 OR LARGER.  
C. 1 1/2" CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER BUT POURING AGAINST FORMS FOR BARS #5 OR SMALLER.

- CONSTRUCTION JOINTS IN WALLS SHALL BE KEYPED (1 1/2" DEEP BY 1/3 MEMBER AREA) AND REINFORCING SHALL CONTINUE THRU JOINT, OR BE TENSION LAP SPLICED. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR, APPROVED BY THE ENGINEER/ARCHITECT, TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE.
- AT THE CORNERS OF ALL WALLS SUPPLY CORNER BARS INDICATED.
- SLABS-ON-GRADE SHALL BE JOINTED (CONSTRUCTION OR CONTROL) ALONG COLUMN LINES OR MORE OFTEN TO PROVIDE APPROXIMATELY SQUARE PANELS NO LARGER THAN 15' X 15' UNLESS OTHERWISE INDICATED. PROVIDE SQUARE ISOLATION JOINTS AT ALL COLUMNS WITH 1/2" PREFORMED JOINT FILLER AROUND THE COLUMNS.
- INTERIOR GRADE SLABS SHALL BE AS INDICATED.
- CUTTING AND/OR CORING CONCRETE WILL NOT BE ALLOWED. HOLES IN CONCRETE SLABS AND WALLS SHALL HAVE, ADDITIONALLY, 2 #5 OPENING DIMENSION PLUS 2 FT. ALONG EACH SIDE OF OPENING AND 2 #5 X 35"-0" DIAGONALLY AT EACH OF THE CORNERS UNLESS OTHERWISE INDICATED.
- CONTINUOUS REINFORCING IN FOOTING SHALL BE LAP-SPLICED 1'-0".
- THE FOLLOWING MINIMUM LAPS AND SPLICES SHALL BE MAINTAINED, INCLUDING DOWEL EXTENSIONS AND EMBEDMENT UNLESS SPECIFIED OR INDICATED OTHERWISE.  
VERTICAL BARS IN WALLS - 36 BAR DIAMETERS - MIN. 1'-0"  
HORIZONTAL BARS IN WALLS - 36 BAR DIAMETERS - MIN. 1'-0"

- BEARING LENGTH 2'-0" (STRAIGHT BARS)
- CLEAR SPAN
- BEARING LENGTH 1'-4" (HOOKED BARS)

- SIZE OF BARS TO MATCH VERT CMU WALL REINFORCING. PROVIDE 2 BARS PER CELL.
- SOLID GROUT ALL REINFORCING CELLS AND CONTINUE REINFORCING TO FULL HEIGHT OF WALL.
- 2-#5 BELOW BEAM BEARING, SOLID GROUT.

- 2-#5 DOWELS EACH VERT BAR BELOW BEAM BEARING
- NOTE: INFILL POCKET W/CMU AFTER BM IS SET

- PROVIDE FOUNDATION DOWELS TO MATCH VERT JAMB REIN. REFER TO MASONRY WALL REINFORCING DIAGRAM FOR SPLICES IN VERT REIN.
- CONTINUE VERTICAL WALL REIN OVER OPENING. ANCHOR VERT REIN BOND BEAM OVER STEEL LINTEL WITH STANDARD ACI HOOK.

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

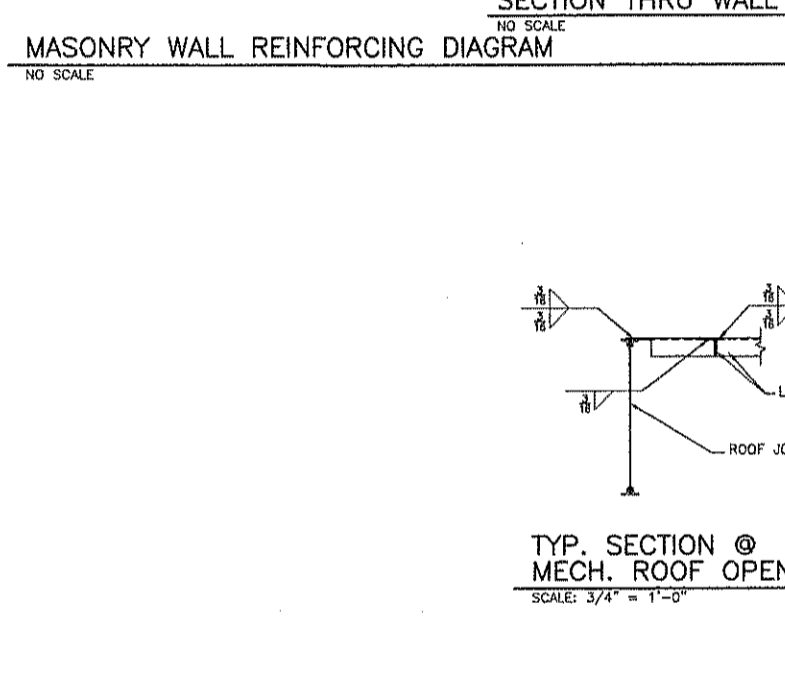
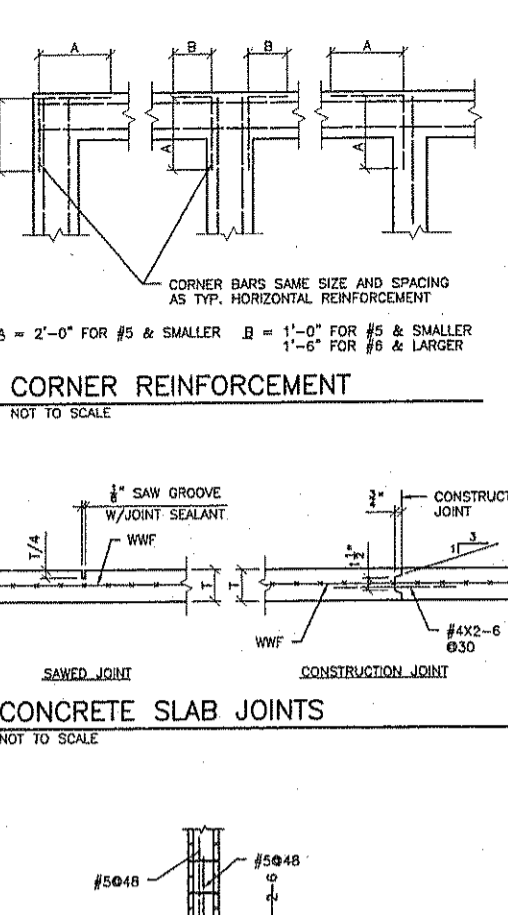
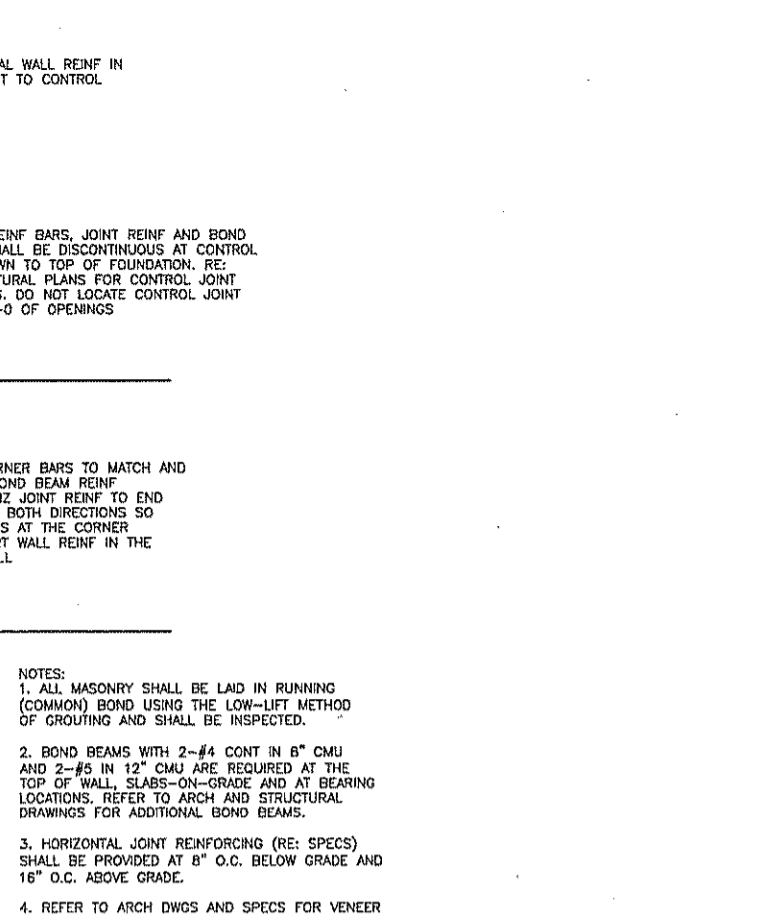
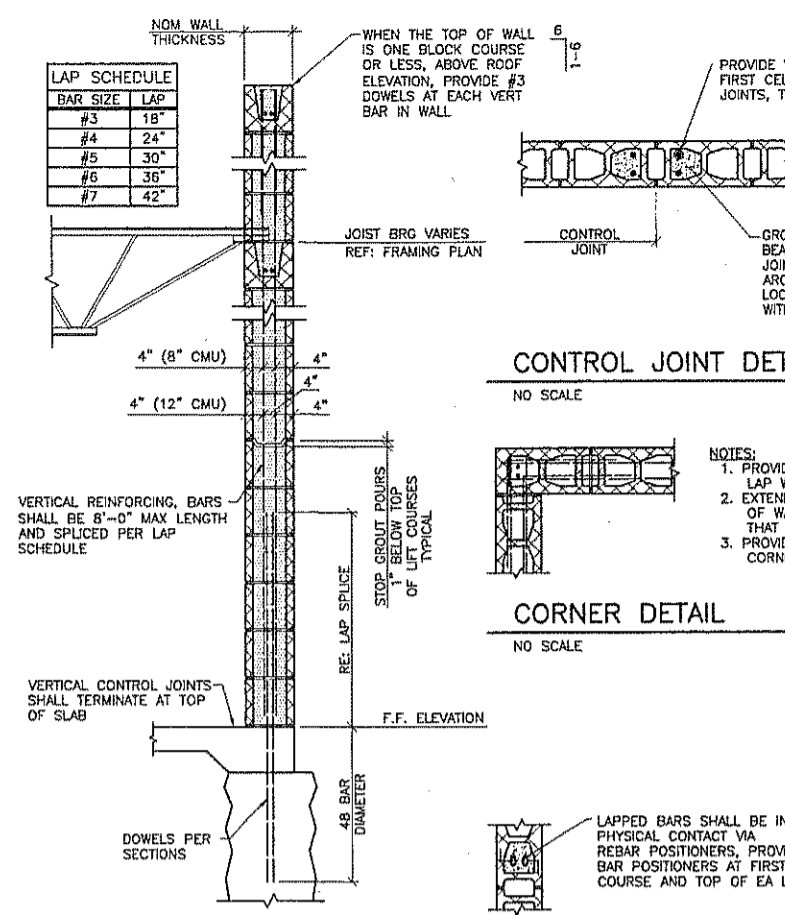
- WBX10 @ SL1  
WBX24 @ SL4 W/  
#3 X7, STOP @ 1" SHORT OF JAMB
- WBX10 @ SL2, SL3  
W12X22 @ SL5  
W16X26 @ SL6 W/  
#3 X11-0, STOP @ 1" SHORT OF JAMB

**D. MASONRY:**

- MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-88 ASCE 6-88).
- LIGHTWEIGHT CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N WITH MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI.
- MORTAR SHALL BE TYPE N AND SHALL CONFORM TO ASTM C270.
- GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. AT 28 DAYS AND CONFORM TO REQUIREMENTS OF ASTM C478. GROUT LIFT HEIGHT SHALL NOT EXCEED 4 FEET. EACH LIFT SHALL BE MECHANICALLY VIBRATED.
- VERTICAL REINFORCING IN MASONRY SHALL BE SPLICED A MINIMUM OF 40 BAR DIAMETERS. HORIZONTAL REINFORCING IN MASONRY SHALL BE CONTINUOUS WITH SPLICES LAPPED A MINIMUM OF 40 BAR DIAMETERS.
- ALL JOINT REINFORCEMENT SHALL BE AS SPECIFIED AND SHALL HAVE SPLICES LAPPED A MINIMUM OF 6 INCHES.
- CONTINUOUS REINFORCED BOND BEAM SHALL HAVE TYPICAL CORNER REINFORCING AT CORNERS AND INTERSECTION AS INDICATED FOR TYPICAL CORNER DETAIL.

**E. STEEL:**

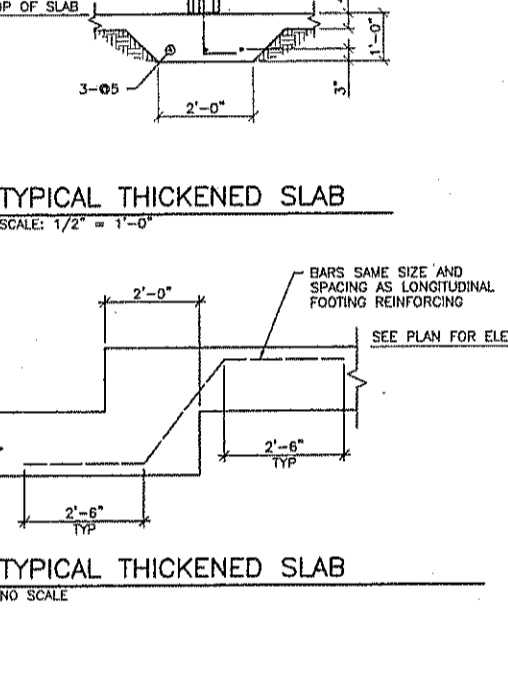
- STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATIONS ASTM A992 FOR SHAPES, ASTM A36 FOR PLATES, ASTM A500 GRADE B FOR TUBES AND ASTM A53, TYPE E OR S, GRADE B FOR PIPES.
- ANCHOR BOLTS SHALL BE ASTM A307 USING A36 STEEL, UNLESS OTHERWISE INDICATED.
- PROPER FIT IN THE FIELD OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH GOOD STANDARD PRACTICE AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- HIGH-STRENGTH BOLTED CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325N BOLTS. HIGH STRENGTH BOLTS MAY BE TIGHTENED BY ANY METHOD THEREIN, REGARDLESS OF THE METHOD USED IN TIGHTENING. A HARDENED WASHER SHALL BE USED UNDER THE TURNED ELEMENT.
- HIGH-STRENGTH BOLTED CONNECTIONS USING DOUBLE CLIP ANGLES SHALL BE IMPACT TIGHTENED.
- FIELD WELDS SHALL CONFORM TO THE SPECIFICATIONS AND TO THE DETAILS SHOWN.
- FIELD WELDING SHALL NOT BE STARTED UNTIL JOINT ELEMENTS ARE BOLTED IN INTIMATE CONTACT AND/OR ADJUSTED TO DIMENSIONS INDICATED WITH ALLOWANCE FOR ANY EXPECTED WELD SHRINKAGE. MAINTAIN PLUMBNESS AND TRUENESS OF THE STRUCTURE.
- FIELD WELDS FOR STRUCTURAL STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.
- ELECTRODES SHALL BE DRIED AND STORED IN ACCORDANCE WITH AWS D1.1-82.
- MINIMUM PREHEAT AND INTERPASS TEMPERATURE SHALL BE AS SPECIFIED IN TABLE 1.23.6 OF THE AISC SPECIFICATIONS.
- FIELD WELDING WILL NOT BE PERMITTED WHEN TEMPERATURE OF THE BASE MATERIAL IS 32 DEGREES F OR LOWER. AT TEMPERATURES BETWEEN 32 DEGREES F AND 70 DEGREES F THE SURFACE OF ALL AREAS WITHIN 3" OF THE POINT WHERE A WELD IS TO BE STARTED SHALL BE HEATED TO A TEMPERATURE AT LEAST WARM TO THE HAND BEFORE WELDING IS STARTED.
- WELDERS (SHOP & FIELD) SHALL BE AWS CERTIFIED. WELDER'S CERTIFICATION PAPERS SHALL BE FILED WITH THE GENERAL CONTRACTOR.
- OPEN-WEB BAR JOISTS SHALL BE AS INDICATED AND CONFORM TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.
- BAR JOISTS SHALL BE WELDED TO SUPPORTING STEEL AS INDICATED.
- BAR JOISTS SHALL HAVE CONTINUOUS BRIDGING AS PER THE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS.
- CAMBER FOR BAR JOISTS SHALL BE A MINIMUM AS PER SJI.
- STEEL ROOF DECK SHALL BE 27X18 GAGE GALVANIZED DECK WITH MINIMUM SECTION PROPERTIES AS FOLLOWS:  
MOMENT OF INERTIA 0.803 IN<sup>4</sup>/FT  
SECTION MODULUS 0.527 IN<sup>3</sup>/FT
- MEZZANINE STEEL FLOOR DECK SHALL BE 28X26 GAGE PAINTED FORM DECK WITH SECTION PROPERTIES AS FOLLOWS:  
MOMENT OF INERTIA 0.024 IN<sup>4</sup>/FT  
SECTION MODULUS 0.070 IN<sup>3</sup>/FT
- SECOND FLOOR CORRIDOR STEEL DECK SHALL BE 1 1/2"X20 GAGE PAINTED FORM DECK WITH SECTION PROPERTIES AS FOLLOWS:  
MOMENT OF INERTIA 0.222 IN<sup>4</sup>/FT  
SECTION MODULUS 0.247 IN<sup>3</sup>/FT
- METAL ROOF DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS TO PROVIDE A LATERAL LOAD DIAPHRAGM AS INDICATED.



**CMU LINTEL SCHEDULE**

MARK	NOMINAL WALL THICKNESS	NOMINAL DEPTH	MAX CLEAR SPAN	BOTTOM REINFORCING	TOP REINFORCING	STIRRUPS
ML1	12"	24"	8'-0"	3-#4	2-#4	
ML2	12"	24"	8'-0"	3-#4	2-#4	
	8"	8"	4'-0"	2-#4	2-#4	
	8"	16"	6'-0"	2-#4	2-#4	
	8"	24"	8'-0"	2-#4	2-#4	
	12"	16"	6'-4"	2-#4	2-#4	

**MASONRY WALL OPENING DIAGRAM - CMU LINTEL**  
NO SCALE



**MASONRY WALL OPENING DIAGRAM - STEEL LINTEL**  
NO SCALE

**MASONRY WALL OPENING DIAGRAM - CMU LINTEL**  
NO SCALE

Drawing name: F:\1300\13820\000\Structural\Drawings\Wamego High Phase 1\13820.000 - S41 Typical Details.dwg Plotted on Oct 05, 2003 - 3:30pm Plotted by: ls00532

PROJECT NO 9428.03  
DATE OCT 2003  
DRAWN BY LSA  
REVISION

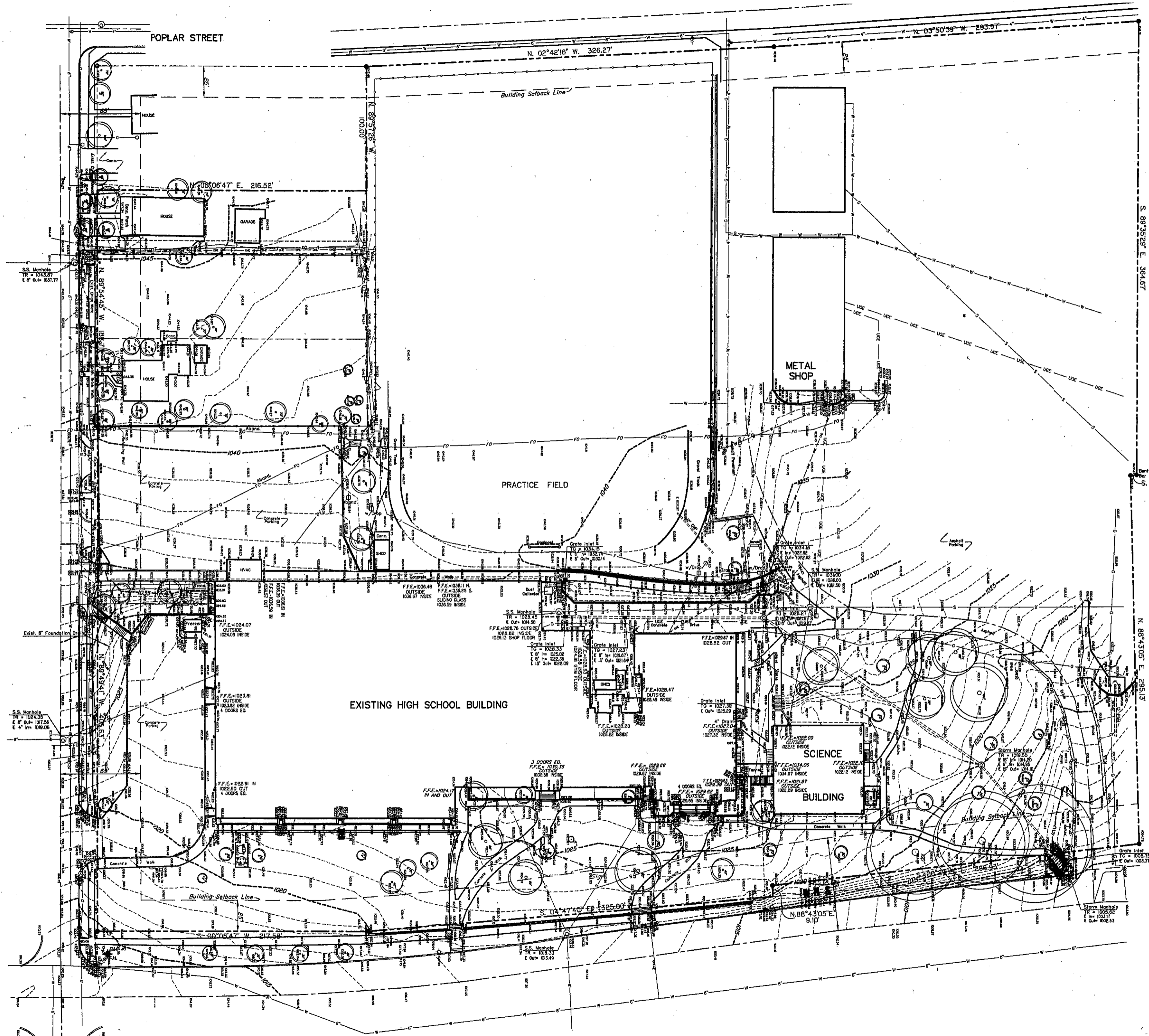
**The Ken Ebert Design Group**  
Architects and Planning Consultants  
115 Westport Drive Suite F  
Manhattan, Kansas 66502  
(785) 776-1800 (785) 776-9906 FAX

Professional Engineer Seal: TERRY TAGGART, 18800, 10/03, KANSAS  
Professional Engineer Seal: L. W. GARDNER, 11480, 10/03, KANSAS

**Wamego High School Improvements Phase I**  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET S4.1**  
GENERAL NOTES / TYPICAL DETAILS

**BARTLETT & WEST ENGINEERS**  
1800 NW EXECUTIVE DRIVE, TOLSON KS 66560  
PHONE: 785-838-2200 FAX: 785-838-2201  
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**LEGEND**

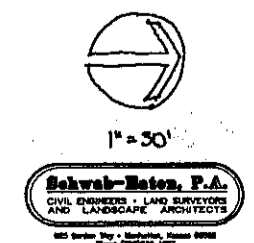
- BAR FOUND IN PLACE
- BAR SET THIS SURVEY
- △ SECTION CORNER
- ① CORNER NUMBER
- ② CURVE NUMBER
- ⊕ WATER VALVE
- ⊕ TELEPHONE PIEDestal
- ⊕ FIRE HYDRANT
- ⊕ POWER POLE
- ⊕ AREA LIGHT
- ⊕ FACADE MTD. LIGHT
- ⊕ SPOT ELEVATION
- ⊕ WATER METER
- ⊕ DECIDUOUS TREE
- ⊕ CONIFEROUS TREE
- S SANITARY SEWER LINE (EXIST.)
- W WATER LINE (EXIST.)
- G GAS LINE (EXIST.)
- T TELEPHONE CABLE (EXIST.)
- UGE U.G. ELEC. (EXIST.)
- OHP O.H. ELEC. (EXIST.)

PROJECT NO 4429.03  
 DATE OCT 2008  
 DRAWN BY LLB  
 REVISION

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 115 Westport Drive, Suite F  
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**Wamego High School Improvements  
 Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547








SHEET  
**C1.1**  
 EXISTING CONDITIONS

**EXISTING CONDITIONS**

**GENERAL NOTES REGARDING SITE DEMOLITION**

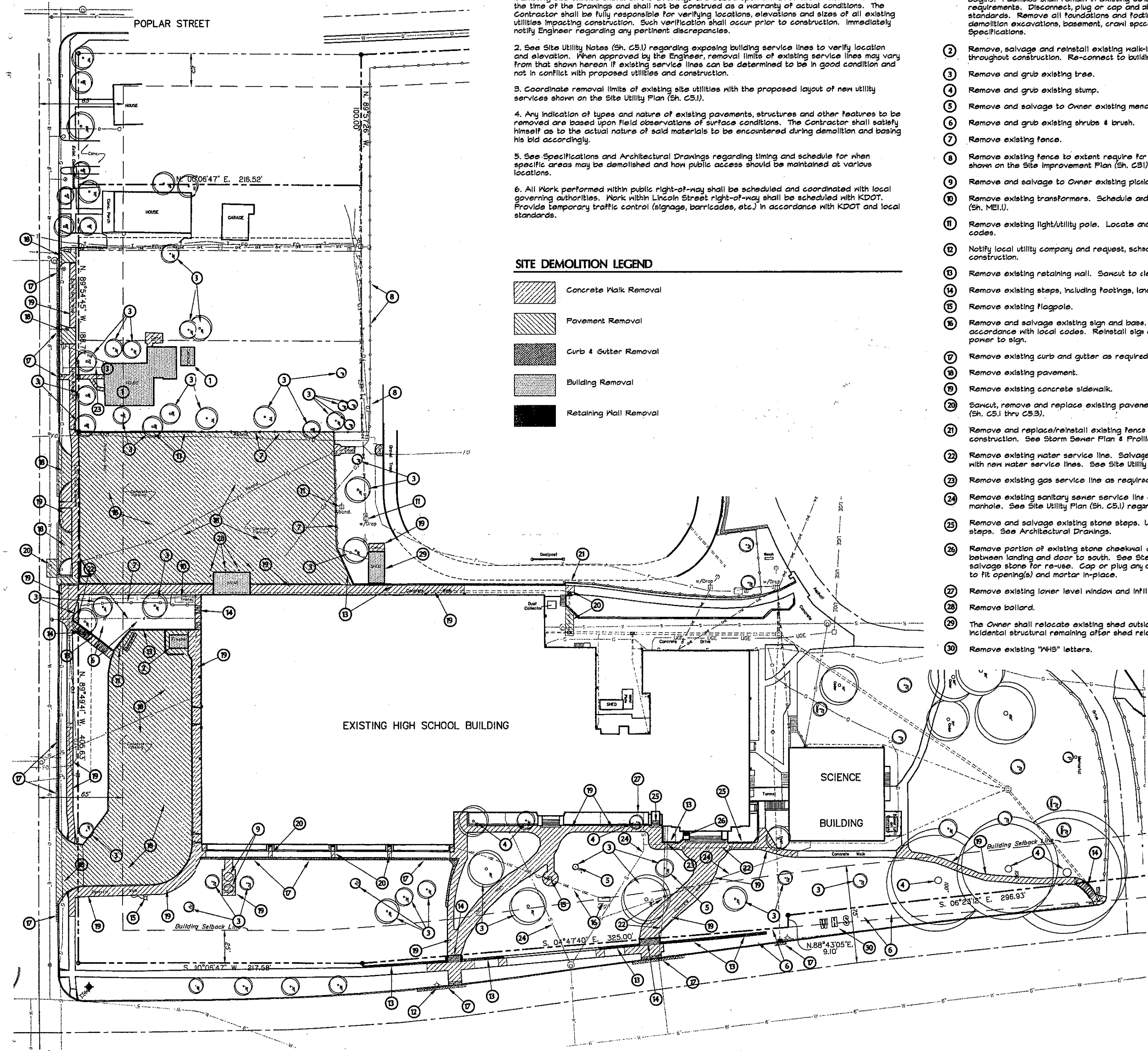
- Existing site utilities shown on the Drawings are based upon the best information available at the time of the Drawings and shall not be construed as a warranty of actual conditions. The Contractor shall be fully responsible for verifying locations, elevations and sizes of all existing utilities impacting construction. Such verification shall occur prior to construction. Immediately notify Engineer regarding any pertinent discrepancies.
- See Site Utility Notes (Sh. C5.1) regarding exposing building service lines to verify location and elevation. When approved by the Engineer, removal limits of existing service lines may vary from that shown hereon if existing service lines can be determined to be in good condition and not in conflict with proposed utilities and construction.
- Coordinate removal limits of existing site utilities with the proposed layout of new utility services shown on the Site Utility Plan (Sh. C5.1).
- Any indication of types and nature of existing pavements, structures and other features to be removed are based upon field observations of surface conditions. The Contractor shall satisfy himself as to the actual nature of said materials to be encountered during demolition and basing his bid accordingly.
- See Specifications and Architectural Drawings regarding timing and schedule for when specific areas may be demolished and how public access should be maintained at various locations.
- All Work performed within public right-of-way shall be scheduled and coordinated with local governing authorities. Work within Lincoln Street right-of-way shall be scheduled with KDOT. Provide temporary traffic control (signage, barricades, etc.) in accordance with KDOT and local standards.

**SITE DEMOLITION LEGEND**

-  Concrete Walk Removal
-  Pavement Removal
-  Curb & Gutter Removal
-  Building Removal
-  Retaining Wall Removal

**DEMOLITION SCHEDULE**

- Completely remove existing building in accordance with local codes. Facilities may still be in use when construction begins. Facilities shall remain in existing condition and accessible to residents until date indicated in project requirements. Disconnect, plug or cap and abandon all utility services to building in accordance with utility owner's standards. Remove all foundations and footings to a minimum depth of 36-inches below finish grade. Backfill demolition excavations, basement, crawl space and other depressions to required elevations in accordance with specifications.
- Remove, salvage and reinstall existing walk-in freezer at location shown on Site Improvement Plan (Sh. C3.1). Protect throughout construction. Re-connect to building power and make fully operational.
- Remove and grub existing tree.
- Remove and grub existing stump.
- Remove and salvage to Owner existing memorial marker.
- Remove and grub existing shrubs & brush.
- Remove existing fence.
- Remove existing fence to extent required for construction. Salvage and reinstall after construction at location(s) shown on the Site Improvement Plan (Sh. C3.1). Reinstall in good condition and protect throughout construction.
- Remove and salvage to Owner existing picnic tables.
- Remove existing transformers. Schedule and coordinate removal with Owner and utility company. See M/E Site Plan (Sh. ME1.1).
- Remove existing light/utility pole. Locate and disconnect electrical service prior to removal in accordance with local codes.
- Notify local utility company and request, schedule and coordinate relocation of existing light pole to avoid new construction.
- Remove existing retaining wall. Sawcut to clean, neat lines where removal limits abut new construction.
- Remove existing steps, including footings, landings, railings and related appurtenances.
- Remove existing flagpole.
- Remove and salvage existing sign and base. Locate and disconnect electrical service prior to removal in accordance with local codes. Reinstall sign and base at location shown on Site Improvement Plan (Sh. C3.1). Provide power to sign.
- Remove existing curb and gutter as required for new construction. See Site Improvement Plans (Sh. C3.1 thru C3.5).
- Remove existing pavement.
- Remove existing concrete sidewalk.
- Sawcut, remove and replace existing pavement to extent required to facilitate utility construction. See Utility Plans (Sh. C5.1 thru C5.3).
- Remove and replace/reinstall existing fence and segmental retaining wall to extent required facilitating storm sewer construction. See Storm Sewer Plan & Profile (Sh. C5.3).
- Remove existing water service line. Salvage existing meter, box, valves & related appurtenances for reinstallation with new water service lines. See Site Utility Plan (Sh. C5.1) regarding new water service installation.
- Remove existing gas service line as required to facilitate construction.
- Remove existing sanitary sewer service line as required to facilitate construction. Cap service line(s) at existing manhole. See Site Utility Plan (Sh. C5.1) regarding new sanitary service installation.
- Remove and salvage existing stone steps. Use stone to replace damaged or deteriorated portions of other building steps. See Architectural Drawings.
- Remove portion of existing stone cheekwall as required to facilitate new walk connection (min. 36-inches wide) between landing and door to south. See Site Improvement Plans (Sh. C3.1 & C3.5). Remove to clean, neat lines and salvage stone for re-use. Cap or plug any openings left during demolition with salvaged stone. Cut stone as required to fit opening(s) and mortar in-place.
- Remove existing lower level window and infill with masonry construction. See Architectural Drawings.
- Remove bollard.
- The Owner shall relocate existing shed outside the construction limits. Contractor shall remove remaining footings and incidental structural remaining after shed relocation.
- Remove existing "NHS" letters.

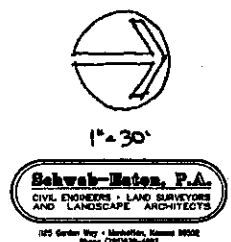


PROJECT NO 4928.03  
 DATE OCT 2008  
 DRAWN BY LLB  
 REVISION

The Ken Ebert Design Group  
 Architects and Planning Consultants  
 115 Westport Drive Suite F  
 Manhattan, Kansas 66502  
 (785) 776-1800 (785) 776-9906 FAX

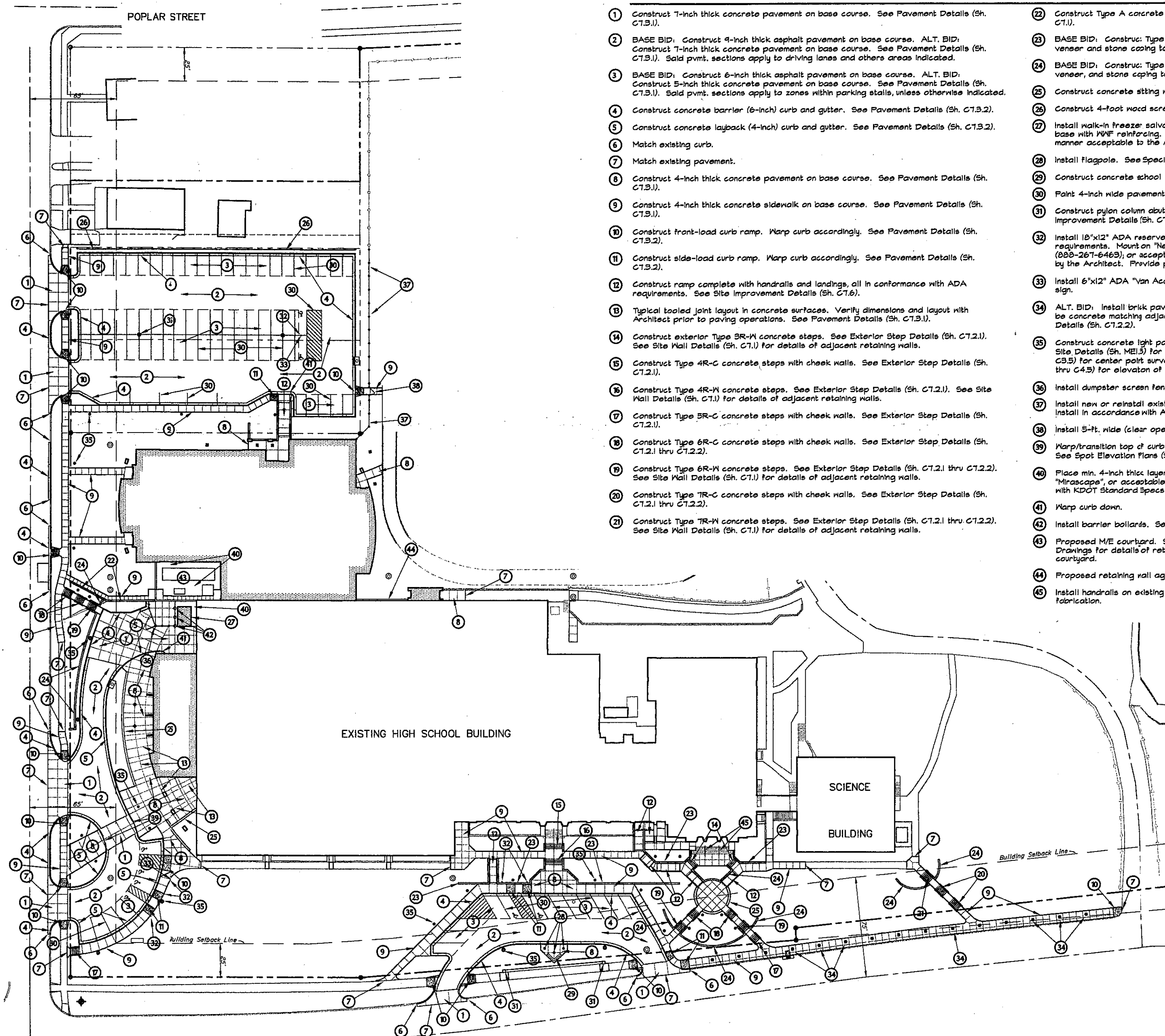


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SHEET  
**C2.1**  
 SITE DEMOLITION

**SITE DEMOLITION**



**SITE IMPROVEMENT SCHEDULE**

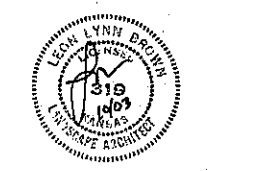
- ① Construct 7-inch thick concrete pavement on base course. See Pavement Details (Sh. C7.3.1).
- ② BASE BID: Construct 9-inch thick asphalt pavement on base course. ALT. BID: Construct 7-inch thick concrete pavement on base course. See Pavement Details (Sh. C7.3.1). Said pvmt. sections apply to driving lanes and others areas indicated.
- ③ BASE BID: Construct 6-inch thick asphalt pavement on base course. ALT. BID: Construct 5-inch thick concrete pavement on base course. See Pavement Details (Sh. C7.3.1). Said pvmt. sections apply to zones within parking stalls, unless otherwise indicated.
- ④ Construct concrete barrier (6-inch) curb and gutter. See Pavement Details (Sh. C7.3.2).
- ⑤ Construct concrete layback (4-inch) curb and gutter. See Pavement Details (Sh. C7.3.2).
- ⑥ Match existing curb.
- ⑦ Match existing pavement.
- ⑧ Construct 4-inch thick concrete pavement on base course. See Pavement Details (Sh. C7.3.1).
- ⑨ Construct 4-inch thick concrete sidewalk on base course. See Pavement Details (Sh. C7.3.1).
- ⑩ Construct front-load curb ramp. Warp curb accordingly. See Pavement Details (Sh. C7.3.2).
- ⑪ Construct side-load curb ramp. Warp curb accordingly. See Pavement Details (Sh. C7.3.2).
- ⑫ Construct ramp complete with handrails and landings, all in conformance with ADA requirements. See Site Improvement Details (Sh. C7.6).
- ⑬ Typical toled joint layout in concrete surfaces. Verify dimensions and layout with Architect prior to paving operations. See Pavement Details (Sh. C7.3.1).
- ⑭ Construct exterior Type BR-W concrete steps. See Exterior Step Details (Sh. C7.2.1). See Site Wall Details (Sh. C7.1) for details of adjacent retaining walls.
- ⑮ Construct Type 4R-C concrete steps with cheek walls. See Exterior Step Details (Sh. C7.2.1).
- ⑯ Construct Type 4R-W concrete steps. See Exterior Step Details (Sh. C7.2.1). See Site Wall Details (Sh. C7.1) for details of adjacent retaining walls.
- ⑰ Construct Type 5R-C concrete steps with cheek walls. See Exterior Step Details (Sh. C7.2.1).
- ⑱ Construct Type 6R-C concrete steps with cheek walls. See Exterior Step Details (Sh. C7.2.1 thru C7.2.2).
- ⑲ Construct Type 6R-W concrete steps. See Exterior Step Details (Sh. C7.2.1 thru C7.2.2). See Site Wall Details (Sh. C7.1) for details of adjacent retaining walls.
- ⑳ Construct Type 7R-C concrete steps with cheek walls. See Exterior Step Details (Sh. C7.2.1 thru C7.2.2).
- ㉑ Construct Type 7R-W concrete steps. See Exterior Step Details (Sh. C7.2.1 thru C7.2.2). See Site Wall Details (Sh. C7.1) for details of adjacent retaining walls.
- ㉒ Construct Type A concrete retaining wall with steel pipe guardrail. See Site Wall Details (Sh. C7.1).
- ㉓ BASE BID: Construct Type B concrete retaining wall. ALT. BID: Add masonry ledge, stone veneer and stone coping to wall. See Site Wall Details (Sh. C7.1).
- ㉔ BASE BID: Construct Type C concrete retaining wall. ALT. BID: Add masonry ledge, stone veneer, and stone coping to wall. See Site Wall Details (Sh. C7.1).
- ㉕ Construct concrete sitting wall. See Site Wall Details (Sh. C7.1).
- ㉖ Construct 4-foot wood screen fence. See Site Improvement Details (Sh. C7.6).
- ㉗ Install walk-in freezer salvaged during site demolition. Construct minimum 8-inch thick concrete base with WWF reinforcing. Install freezer and anchor support system to concrete base in manner acceptable to the Architect. Provide power and make freezer fully operational.
- ㉘ Install flagpole. See Specifications. See Site Improvement Details (Sh. C7.6).
- ㉙ Construct concrete school identification sign. See Site Improvement Details (Sh. C7.6).
- ㉚ Paint 4-inch wide pavement markings and parking lot striping.
- ㉛ Construct pylon column abutting end of salvaged portion of existing retaining wall. See Site Improvement Details (Sh. C7.6).
- ㉜ Install 18"x12" ADA reserved parking sign (rust-proof reflective steel) in accordance with ADA requirements. Mount on "Nex" sign support system as manufactured by S-Square Tube Products (888-267-6463) or acceptable equivalent. Post finish shall be powder-coat in color selected by the Architect. Provide product submittal for sign content selection and sign support system.
- ㉝ Install 6"x12" ADA "Van Accessible" sign (rust-proof reflective steel) beneath reserved parking sign.
- ㉞ ALT. BID: Install brick paver "windmill" motif panel in walk or pavement (Note: Base bid shall be concrete matching adjacent pavement construction at this location). See Site Improvement Details (Sh. C7.2.2).
- ㉟ Construct concrete light pole base (typ). See M/E Site Plan (Sh. ME.1) for fixture type and M/E Site Details (Sh. ME.3) for base construction. See Site Improvement Locations (Sh. C3.2 thru C3.5) for center point survey coordinates of each base. See Spot Elevation Plans (Sh. C4.2 thru C4.5) for elevation of top of each base.
- ㊱ Install dumpster screen fence and gates. See Site Improvement Details (Sh. C7.6).
- ㊲ Install new or reinstall exist chain link fence salvaged in good condition during site demolition. Install in accordance with ASTM F-567.
- ㊳ Install 5-ft. wide (clear opening) chain link gate to match adjacent fence.
- ㊴ Warp/transition top of curb to match curb ramp and permit barrier-free pedestrian access. See Spot Elevation Plans (Sh. C4.2 thru C4.5) for supplementary elevation information.
- ㊵ Place min. 4-inch thick layer of compacted crushed rock surface on weed control mat (Mirafi "Mirascapa", or acceptable equivalent). Crushed rock shall be CA-5 or SS-1, in accordance with KDOT Standard Specs.
- ㊶ Warp curb down.
- ㊷ Install barrier bollards. See Site Improvement Details (Sh. C7.6.1).
- ㊸ Proposed M/E courtyard. See M/E Drawings for more information. See Building Structural Drawings for details of retaining wall and masonry wall construction on east and south side of courtyard.
- ㊹ Proposed retaining wall against existing building. See Building Structural Drawings.
- ㊺ Install handrails on existing steps. Field verify dimensions & submit shop drawings prior to fabrication.

**GENERAL NOTES:**

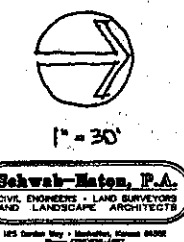
1. See Site Improvement Locations (Sh. C3.2 thru C3.5) for respective locations of proposed improvements shown hereon based upon survey coordinate system.
2. Transition or warp proposed curbs and pavements to match adjacent existing construction indicated to remain. Transition in smooth, clean manner.
3. All work performed within public right-of-way shall be scheduled and coordinated with local governing authorities. Work within Lincoln Street right-of-way shall be scheduled with KDOT. Provide temporary traffic control (signage, barricades, etc.) in accordance with KDOT and local standards.

PROJECT NO 4428.03  
DATE OCT 2003  
DRAWN BY LLB  
REVISION

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Architects and Planning Consultants  
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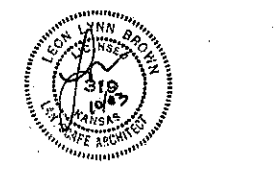


Schwab-Matus, P.A.  
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100 South Hwy. 16, Manhattan, Kansas 66502  
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**SITE IMPROVEMENT PLAN**

SHEET  
**C3.1**  
SITE IMPROVEMENT PLAN

**The Ken Ebert Design Group**  
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**Wamego High School Improvements Phase I**  
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**SHEET C3.2**  
SITE IMPROVEMENT LOCATIONS (NORTHEAST)

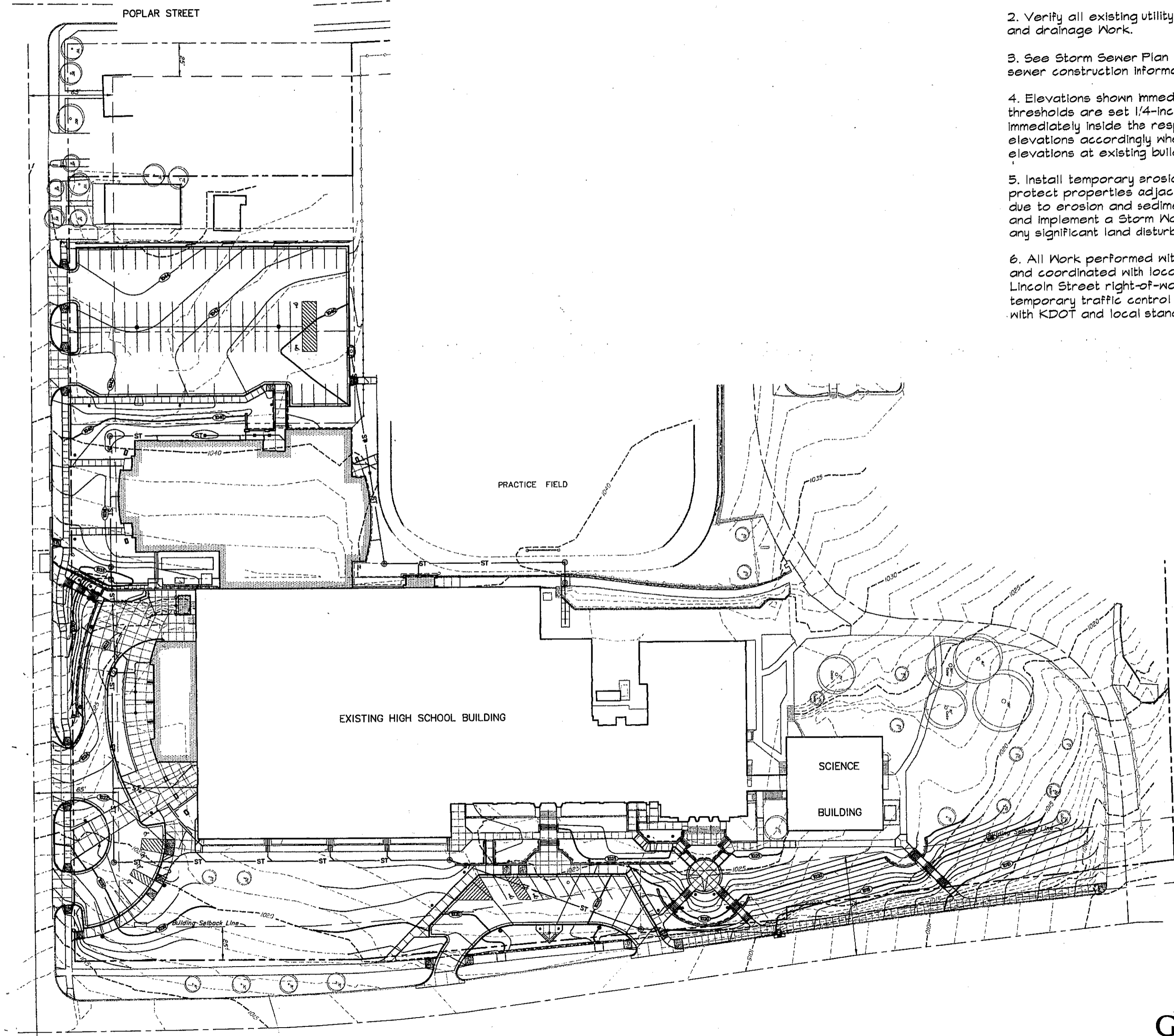
327	4468.32	4458.40	PC	327	4472.00	4462.50	WP	527	4533.00	4523.50	WP	727	4608.00	4598.50	WP	927	4694.00	4684.50	WP	1127	4780.00	4770.50	WP	1327	4866.00	4856.50	WP	1527	4952.00	4942.50	WP	1727	5038.00	5028.50	WP	1927	5124.00	5114.50	WP	2127	5210.00	5200.50	WP	2327	5296.00	5286.50	WP	2527	5382.00	5372.50	WP	2727	5468.00	5458.50	WP	2927	5554.00	5544.50	WP	3127	5640.00	5630.50	WP	3327	5726.00	5716.50	WP	3527	5812.00	5802.50	WP	3727	5898.00	5888.50	WP	3927	5984.00	5974.50	WP	4127	6070.00	6060.50	WP	4327	6156.00	6146.50	WP	4527	6242.00	6232.50	WP	4727	6328.00	6318.50	WP	4927	6414.00	6404.50	WP	5127	6500.00	6490.50	WP	5327	6586.00	6576.50	WP	5527	6672.00	6662.50	WP	5727	6758.00	6748.50	WP	5927	6844.00	6834.50	WP	6127	6930.00	6920.50	WP	6327	7016.00	7006.50	WP	6527	7102.00	7092.50	WP	6727	7188.00	7178.50	WP	6927	7274.00	7264.50	WP	7127	7360.00	7350.50	WP	7327	7446.00	7436.50	WP	7527	7532.00	7522.50	WP	7727	7618.00	7608.50	WP	7927	7704.00	7694.50	WP	8127	7790.00	7780.50	WP	8327	7876.00	7866.50	WP	8527	7962.00	7952.50	WP	8727	8048.00	8038.50	WP	8927	8134.00	8124.50	WP	9127	8220.00	8210.50	WP	9327	8306.00	8296.50	WP	9527	8392.00	8382.50	WP	9727	8478.00	8468.50	WP	9927	8564.00	8554.50	WP	10127	8650.00	8640.50	WP	10327	8736.00	8726.50	WP	10527	8822.00	8812.50	WP	10727	8908.00	8898.50	WP	10927	8994.00	8984.50	WP	11127	9080.00	9070.50	WP	11327	9166.00	9156.50	WP	11527	9252.00	9242.50	WP	11727	9338.00	9328.50	WP	11927	9424.00	9414.50	WP	12127	9510.00	9500.50	WP	12327	9596.00	9586.50	WP	12527	9682.00	9672.50	WP	12727	9768.00	9758.50	WP	12927	9854.00	9844.50	WP	13127	9940.00	9930.50	WP	13327	10026.00	10016.50	WP	13527	10112.00	10102.50	WP	13727	10198.00	10188.50	WP	13927	10284.00	10274.50	WP	14127	10370.00	10360.50	WP	14327	10456.00	10446.50	WP	14527	10542.00	10532.50	WP	14727	10628.00	10618.50	WP	14927	10714.00	10704.50	WP	15127	10800.00	10790.50	WP	15327	10886.00	10876.50	WP	15527	10972.00	10962.50	WP	15727	11058.00	11048.50	WP	15927	11144.00	11134.50	WP	16127	11230.00	11220.50	WP	16327	11316.00	11306.50	WP	16527	11402.00	11392.50	WP	16727	11488.00	11478.50	WP	16927	11574.00	11564.50	WP	17127	11660.00	11650.50	WP	17327	11746.00	11736.50	WP	17527	11832.00	11822.50	WP	17727	11918.00	11908.50	WP	17927	12004.00	11994.50	WP	18127	12090.00	12080.50	WP	18327	12176.00	12166.50	WP	18527	12262.00	12252.50	WP	18727	12348.00	12338.50	WP	18927	12434.00	12424.50	WP	19127	12520.00	12510.50	WP	19327	12606.00	12596.50	WP	19527	12692.00	12682.50	WP	19727	12778.00	12768.50	WP	19927	12864.00	12854.50	WP	20127	12950.00	12940.50	WP	20327	13036.00	13026.50	WP	20527	13122.00	13112.50	WP	20727	13208.00	13198.50	WP	20927	13294.00	13284.50	WP	21127	13380.00	13370.50	WP	21327	13466.00	13456.50	WP	21527	13552.00	13542.50	WP	21727	13638.00	13628.50	WP	21927	13724.00	13714.50	WP	22127	13810.00	13800.50	WP	22327	13896.00	13886.50	WP	22527	13982.00	13972.50	WP	22727	14068.00	14058.50	WP	22927	14154.00	14144.50	WP	23127	14240.00	14230.50	WP	23327	14326.00	14316.50	WP	23527	14412.00	14402.50	WP	23727	14498.00	14488.50	WP	23927	14584.00	14574.50	WP	24127	14670.00	14660.50	WP	24327	14756.00	14746.50	WP	24527	14842.00	14832.50	WP	24727	14928.00	14918.50	WP	24927	15014.00	15004.50	WP	25127	15100.00	15090.50	WP	25327	15186.00	15176.50	WP	25527	15272.00	15262.50	WP	25727	15358.00	15348.50	WP	25927	15444.00	15434.50	WP	26127	15530.00	15520.50	WP	26327	15616.00	15606.50	WP	26527	15702.00	15692.50	WP	26727	15788.00	15778.50	WP	26927	15874.00	15864.50	WP	27127	15960.00	15950.50	WP	27327	16046.00	16036.50	WP	27527	16132.00	16122.50	WP	27727	16218.00	16208.50	WP	27927	16304.00	16294.50	WP	28127	16390.00	16380.50	WP	28327	16476.00	16466.50	WP	28527	16562.00	16552.50	WP	28727	16648.00	16638.50	WP	28927	16734.00	16724.50	WP	29127	16820.00	16810.50	WP	29327	16906.00	16896.50	WP	29527	16992.00	16982.50	WP	29727	17078.00	17068.50	WP	29927	17164.00	17154.50	WP	30127	17250.00	17240.50	WP	30327	17336.00	17326.50	WP	30527	17422.00	17412.50	WP	30727	17508.00	17498.50	WP	30927	17594.00	17584.50	WP	31127	17680.00	17670.50	WP	31327	17766.00	17756.50	WP	31527	17852.00	17842.50	WP	31727	17938.00	17928.50	WP	31927	18024.00	18014.50	WP	32127	18110.00	18100.50	WP	32327	18196.00	18186.50	WP	32527	18282.00	18272.50	WP	32727	18368.00	18358.50	WP	32927	18454.00	18444.50	WP	33127	18540.00	18530.50	WP	33327	18626.00	18616.50	WP	33527	18712.00	18702.50	WP	33727	18798.00	18788.50	WP	33927	18884.00	18874.50	WP	34127	18970.00	18960.50	WP	34327	19056.00	19046.50	WP	34527	19142.00	19132.50	WP	34727	19228.00	19218.50	WP	34927	19314.00	19304.50	WP	35127	19400.00	19390.50	WP	35327	19486.00	19476.50	WP	35527	19572.00	19562.50	WP	35727	19658.00	19648.50	WP	35927	19744.00	19734.50	WP	36127	19830.00	19820.50	WP	36327	19916.00	19906.50	WP	36527	20002.00	19992.50	WP	36727	20088.00	20078.50	WP	36927	20174.00	20164.50	WP	37127	20260.00	20250.50	WP	37327	20346.00	20336.50	WP	37527	20432.00	20422.50	WP	37727	20518.00	20508.50	WP	37927	20604.00	20594.50	WP	38127	20690.00	20680.50	WP	38327	20776.00	20766.50	WP	38527	20862.00	20852.50	WP	38727	20948.00	20938.50	WP	38927	21034.00	21024.50	WP	39127	21120.00	21110.50	WP	39327	21206.00	21196.50	WP	39527	21292.00	21282.50	WP	39727	21378.00	21368.50	WP	39927	21464.00	21454.50	WP	40127	21550.00	21540.50	WP	40327	21636.00	21626.50	WP	40527	21722.00	21712.50	WP	40727	21808.00	21798.50	WP	40927	21894.00	21884.50	WP	41127	21980.00	21970.50	WP	41327	22066.00	22056.50	WP	41527	22152.00	22142.50	WP	41727	22238.00	22228.50	WP	41927	22324.00	22314.50	WP	42127	22410.00	22400.50	WP	42327	22496.00	22486.50	WP	42527	22582.00	22572.50	WP	42727	22668.00	22658.50	WP	42927	22754.00	22744.50	WP	43127	22840.00	22830.50	WP	43327	22926.00	22916.50	WP	43527	23012.00	23002.50	WP	43727	23098.00	23088.50	WP	43927	23184.00	23174.50	WP	44127	23270.00	23260.50	WP	44327	23356.00	23346.50	WP	44527	23442.00	23432.50	WP	44727	23528.00	23518.50	WP	44927	23614.00	23604.50	WP	45127	23700.00	23690.50	WP	45327	23786.00	23776.50	WP	45527	23872.00	23862.50	WP	45727	23958.00	23948.50	WP	45927	24044.00	24034.50	WP	46127	24130.00	24120.50	WP	46327	24216.00	24206.50	WP	46527	24302.00	24292.50	WP	46727	24388.00	24378.50	WP	46927	24474.00	24464.50	WP	47127	24560.00	24550.50	WP	47327	24646.00	24636.50	WP	47527	24732.00	24722.50	WP	47727	24818.00	24808.50	WP	47927	24904.00	24894.50	WP	48127	24990.00	24980.50	WP	48327	25076.00	25066.50	WP	48527	25162.00	25152.50	WP	48727	25248.00	25238.50	WP	48927	25334.00	25324.50	WP	49127	25420.00	25410.50	WP	49327	25506.00	25496.50	WP	49527	25592.00	25582.50	WP	49727	25678.00	25668.50	WP	49927	25764.00	25754.50	WP	50127	25850.00	25840.50	WP	50327	25936.00	25926.50	WP	50527	26022.00	26012.50	WP	50727	26108.00	26098.50	WP	50927	26194.00	26184.50	WP	51127	26280.00	26270.50	WP	51327	26366.00	26356.50	WP	51527	26452.00	26442.50	WP	51727	26538.00	26528.50	WP	51927	26624.00	26614.50	WP	52127	26710.00	26700.50	WP	52327	26796.00	26786.50	WP	52527	26882.00	26872.50	WP	52727	26968.00	26958.50	WP	52927	27054.00	27044.50	WP	53127	27140.00	27130.50	WP	53327	27226.00	27216.50	WP	53527	27312.00	27302.50	WP	53727	27398.00	27388.50	WP	53927	27484.00	27474.50	WP	54127	27570.00	27560.50	WP	54327	27656.00	27646.50	WP	54527	27742.00	27732.50	WP	54727	27828.00	27818.50	WP	54927	27914.00	27904.50	WP	55127	28000.00	27990.50	WP	55327	28086.00	28076.50	WP	55527	28172.00	28162.50	WP	55727	28258.00	28248.50	WP	55927	28344.00	28334.50	WP	56127	28430.00	28420.50	WP	56327	28516.00	28506.50	WP	56527	28602.00	28592.50	WP	56727	28688.00	28678.50	WP	56927	28774.00	28764.50	WP	57127	28860.00	28850.50	WP	57327	28946.00	28936.50	WP	57527	29032.00	29022.50	WP	57727	29118.00	29108.50	WP	57927	29204.0
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**GENERAL NOTES REGARDING GRADING & DRAINAGE:**

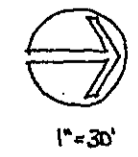
1. See Spot Elevation Plans (Sh. C4.2 thru C4.5) for spot elevation control at critical locations of construction. Spot elevations at top and base of all landings may be shown offset slightly from the actual intended location(s) for legibility purposes. Add 1000 feet to spot elevations given to set to project site datum.
2. Verify all existing utility locations prior to commencing grading and drainage work.
3. See Storm Sewer Plan & Profiles (Sh. C5.2 and C5.3) for storm sewer construction information.
4. Elevations shown immediately outside all building entrance thresholds are set 1/4-inch below the finish floor elevation immediately inside the respective entrance. Adjust said elevations accordingly where variation in actual finish floor elevations at existing building entrances are found to occur.
5. Install temporary erosion control devices as required to protect properties adjacent to construction limits from damage due to erosion and sedimentation. The Contractor shall develop and implement a Storm Water Pollution Prevention Plan prior to any significant land disturbance. See Specifications.
6. All Work performed within public right-of-way shall be scheduled and coordinated with local governing authorities. Work within Lincoln Street right-of-way shall be scheduled with KDOT. Provide temporary traffic control (signage, barricades, etc.) in accordance with KDOT and local standards.

PROJECT NO	9428-03
DATE	OCT 2003
DRAWN BY	LLB
REVISION	

**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
 115 Westport Drive Suite F  
 Manhattan, Kansas 66502  
 (785) 776-1800 (785) 776-9906 FAX



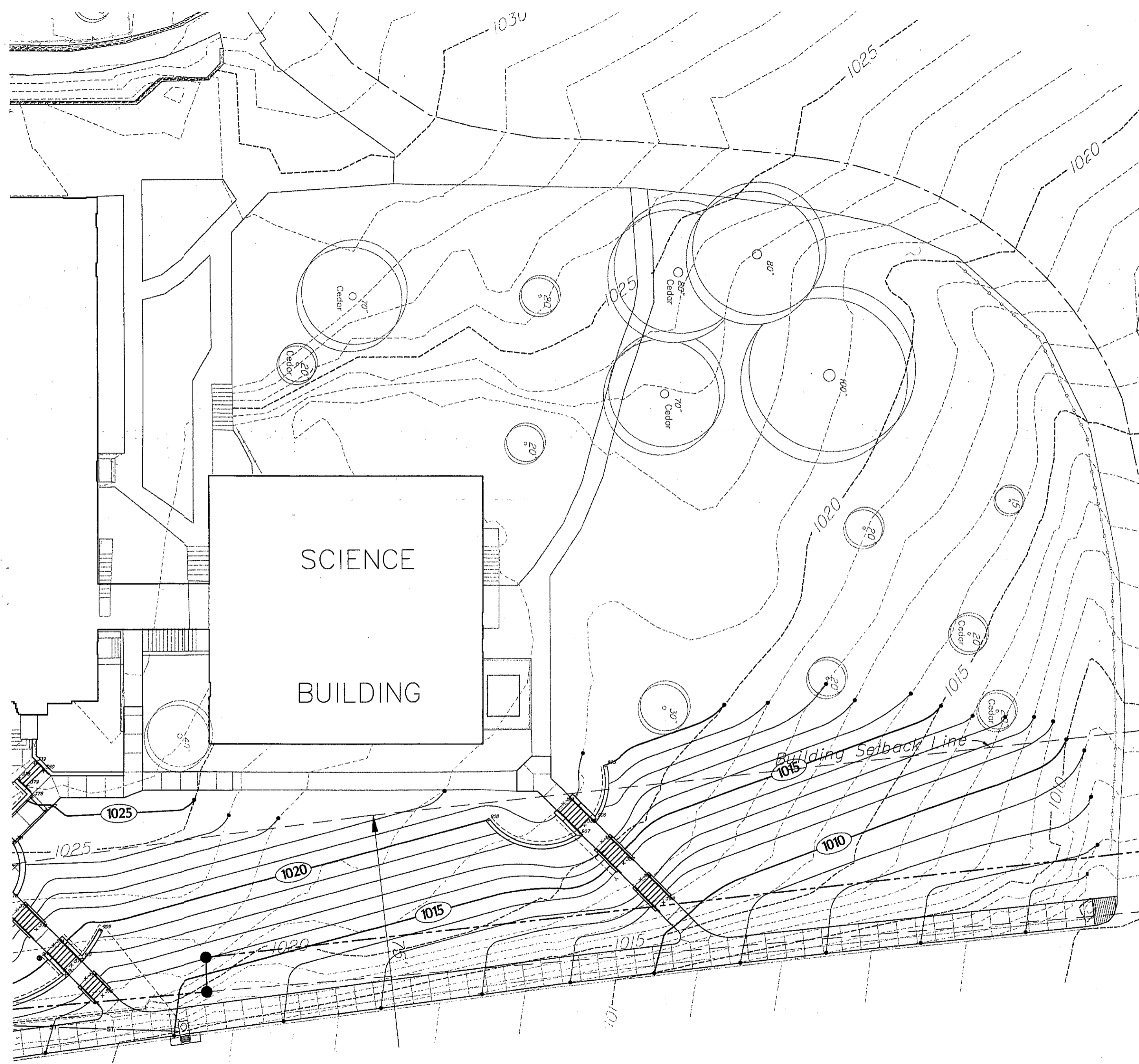
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547



1"=30'  
**Schwab-Bates, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS  
 AND ARCHITECTS  
 100 South Main Street, Wamego, Kansas 66547  
 Phone: (785) 832-2400

**GRADING & DRAINAGE**

SHEET  
**C4.1**  
 GRADING & DRAINAGE



STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
1+00	1015.00	1+50	1015.00	2+00	1015.00	2+50	1015.00
1+01	1015.00	1+51	1015.00	2+01	1015.00	2+51	1015.00
1+02	1015.00	1+52	1015.00	2+02	1015.00	2+52	1015.00
1+03	1015.00	1+53	1015.00	2+03	1015.00	2+53	1015.00
1+04	1015.00	1+54	1015.00	2+04	1015.00	2+54	1015.00
1+05	1015.00	1+55	1015.00	2+05	1015.00	2+55	1015.00
1+06	1015.00	1+56	1015.00	2+06	1015.00	2+56	1015.00
1+07	1015.00	1+57	1015.00	2+07	1015.00	2+57	1015.00
1+08	1015.00	1+58	1015.00	2+08	1015.00	2+58	1015.00
1+09	1015.00	1+59	1015.00	2+09	1015.00	2+59	1015.00
1+10	1015.00	1+60	1015.00	2+10	1015.00	2+60	1015.00
1+11	1015.00	1+61	1015.00	2+11	1015.00	2+61	1015.00
1+12	1015.00	1+62	1015.00	2+12	1015.00	2+62	1015.00
1+13	1015.00	1+63	1015.00	2+13	1015.00	2+63	1015.00
1+14	1015.00	1+64	1015.00	2+14	1015.00	2+64	1015.00
1+15	1015.00	1+65	1015.00	2+15	1015.00	2+65	1015.00
1+16	1015.00	1+66	1015.00	2+16	1015.00	2+66	1015.00
1+17	1015.00	1+67	1015.00	2+17	1015.00	2+67	1015.00
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1+28	1015.00	1+78	1015.00	2+28	1015.00	2+78	1015.00
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1+42	1015.00	1+92	1015.00	2+42	1015.00	2+92	1015.00
1+43	1015.00	1+93	1015.00	2+43	1015.00	2+93	1015.00
1+44	1015.00	1+94	1015.00	2+44	1015.00	2+94	1015.00
1+45	1015.00	1+95	1015.00	2+45	1015.00	2+95	1015.00
1+46	1015.00	1+96	1015.00	2+46	1015.00	2+96	1015.00
1+47	1015.00	1+97	1015.00	2+47	1015.00	2+97	1015.00
1+48	1015.00	1+98	1015.00	2+48	1015.00	2+98	1015.00
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PROJECT NO 9426.03  
 DATE OCT 2003  
 DRAWN BY TS  
 REVISION

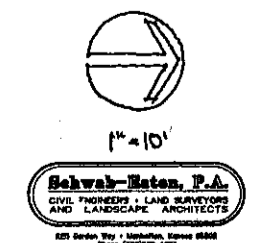
**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
 115 Westport Drive, Suite F  
 Manhattan, Kansas 66502  
 (785) 776-1800 (785) 776-9906 FAX



**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

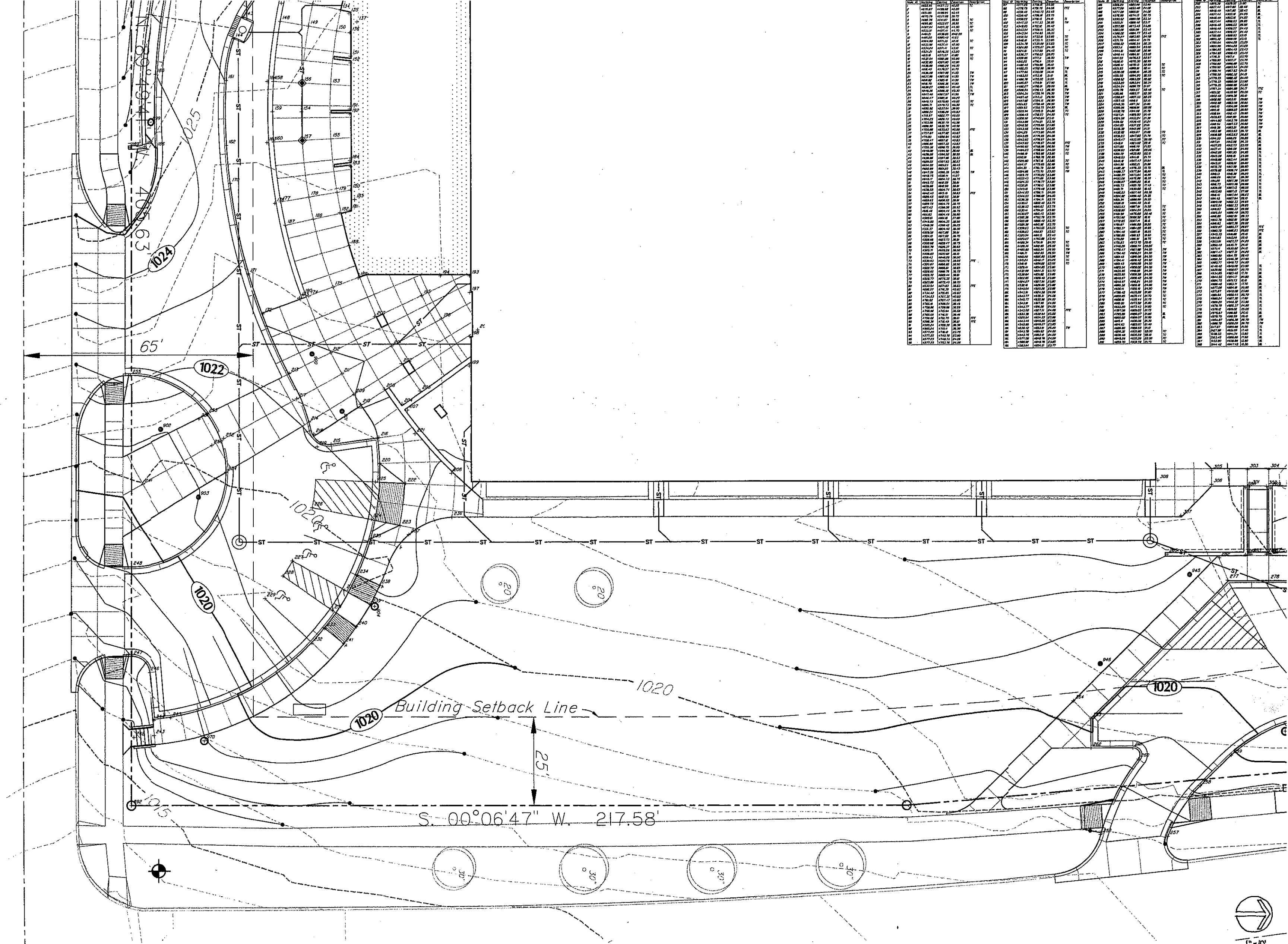
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SPOT ELEVATION PLAN (NORTHEAST)

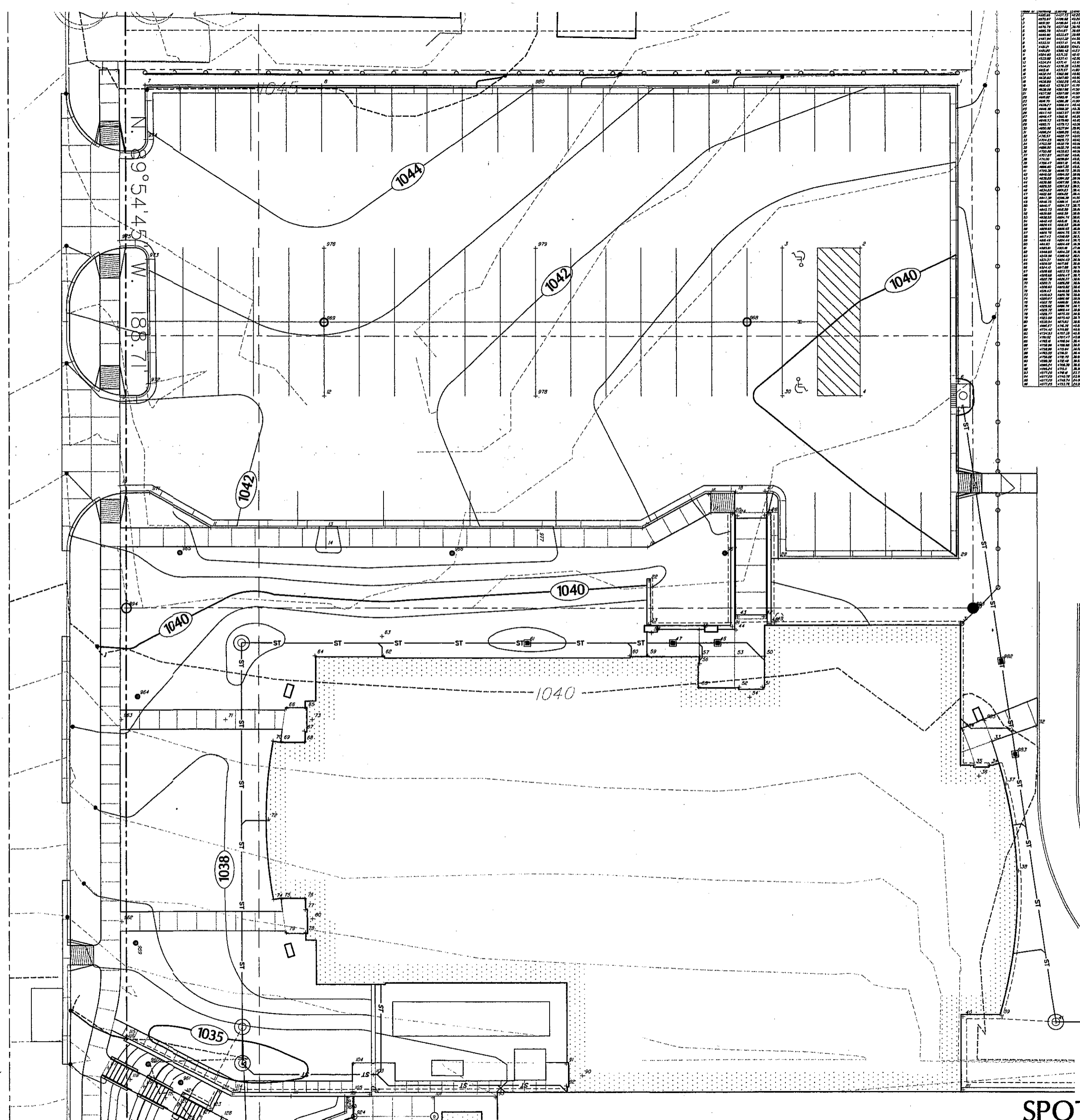


Schwalb-Rosen, P.A.  
 CIVIL ENGINEER & LAND SURVEYOR  
 AND LANDSCAPE ARCHITECTS  
 400 North 10th Street, Suite 200  
 Manhattan, Kansas 66502





Station	Spot Elevation	Station	Spot Elevation
1+00	1020.50	1+50	1021.20
1+05	1020.80	1+55	1021.50
1+10	1021.10	1+60	1021.80
1+15	1021.40	1+65	1022.10
1+20	1021.70	1+70	1022.40
1+25	1022.00	1+75	1022.70
1+30	1022.30	1+80	1023.00
1+35	1022.60	1+85	1023.30
1+40	1022.90	1+90	1023.60
1+45	1023.20	1+95	1023.90
1+50	1023.50	2+00	1024.20
1+55	1023.80	2+05	1024.50
1+60	1024.10	2+10	1024.80
1+65	1024.40	2+15	1025.10
1+70	1024.70	2+20	1025.40
1+75	1025.00	2+25	1025.70
1+80	1025.30	2+30	1026.00
1+85	1025.60	2+35	1026.30
1+90	1025.90	2+40	1026.60
1+95	1026.20	2+45	1026.90
2+00	1026.50	2+50	1027.20
2+05	1026.80	2+55	1027.50
2+10	1027.10	2+60	1027.80
2+15	1027.40	2+65	1028.10
2+20	1027.70	2+70	1028.40
2+25	1028.00	2+75	1028.70
2+30	1028.30	2+80	1029.00
2+35	1028.60	2+85	1029.30
2+40	1028.90	2+90	1029.60
2+45	1029.20	2+95	1029.90
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2+55	1029.80	3+05	1030.50
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2+65	1030.40	3+15	1031.10
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3+20	1033.70	3+70	1034.40
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3+60	1036.10	4+10	1036.80
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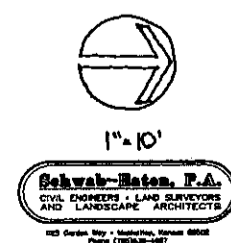
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100	ISSUED FOR PERMITS	10/20/03	LLB	

PROJECT NO 9929.03  
 DATE OCT 2003  
 DRAWN BY LLB  
 REVISION

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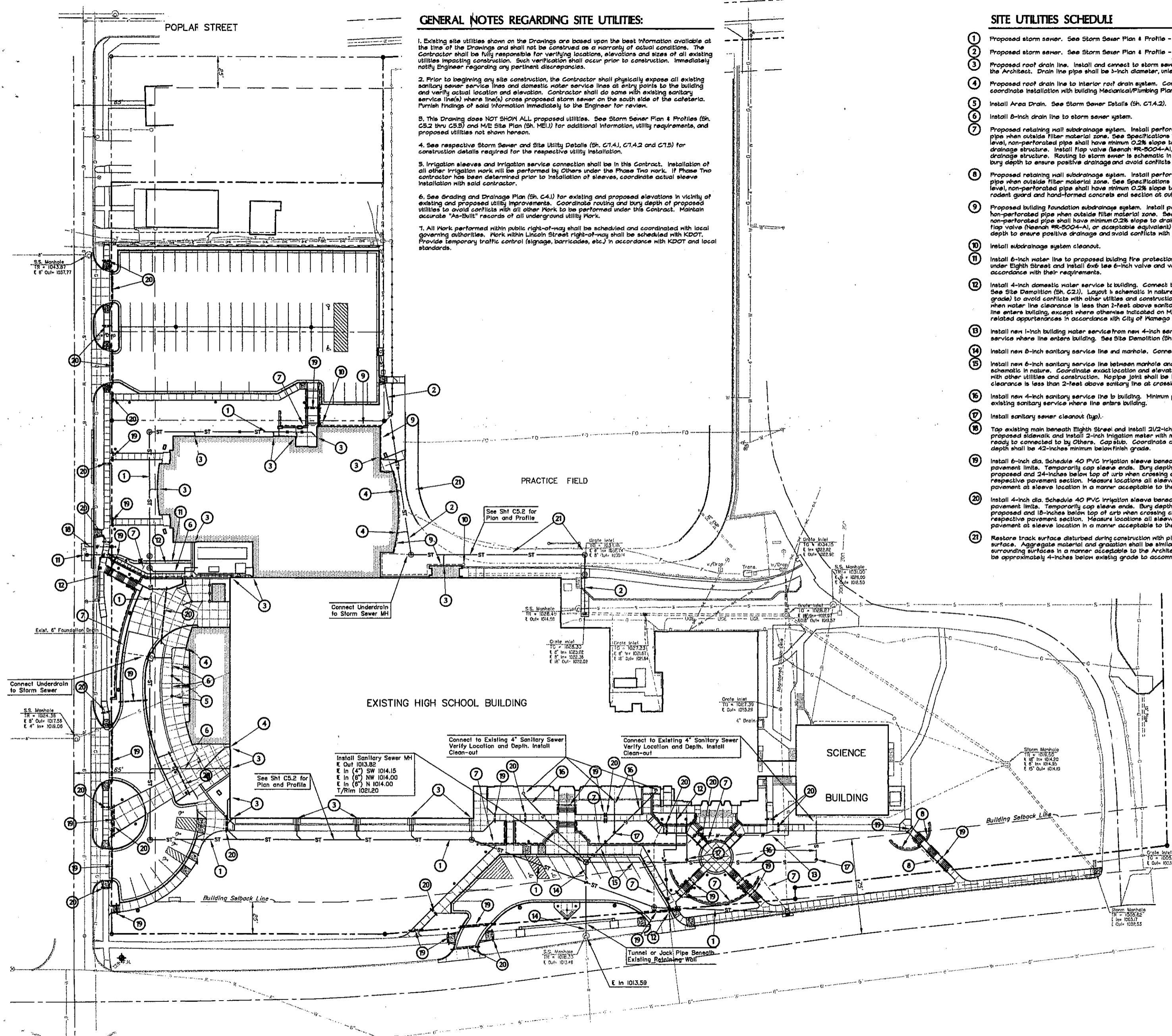


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547



SHEET  
**C4.5**  
 SPOT ELEVATION PLAN (WEST)

SPOT ELEVATION PLAN (WEST)



**GENERAL NOTES REGARDING SITE UTILITIES:**

1. Existing site utilities shown on the Drawings are based upon the best information available at the time of the Drawings and shall not be construed as a warranty of actual conditions. The Contractor shall be fully responsible for verifying locations, elevations and sizes of all existing utilities impacting construction. Such verification shall occur prior to construction. Immediately notify Engineer regarding any pertinent discrepancies.
2. Prior to beginning any site construction, the Contractor shall physically expose all existing sanitary sewer service lines and domestic water service lines at entry points to the building and verify actual location and elevation. Contractor shall do same with existing sanitary service line(s) where line(s) cross proposed storm sewer on the south side of the cafeteria. Furnish findings of said information immediately to the Engineer for review.
3. This Drawing does NOT SHOW ALL proposed utilities. See Storm Sewer Plan & Profiles (Sh. C5.2 thru C5.5) and M/E Site Plan (Sh. ME1.1) for additional information, utility requirements, and proposed utilities not shown herein.
4. See respective Storm Sewer and Site Utility Details (Sh. C7.1, C7.2 and C7.5) for construction details required for the respective utility installation.
5. Irrigation sleeves and irrigation service connection shall be in this Contract. Installation of all other irrigation work will be performed by Others under the Phase Two work. If Phase Two contractor has been determined prior to installation of sleeves, coordinate actual sleeve installation with said contractor.
6. See Grading and Drainage Plan (Sh. C4.1) for existing and proposed elevations in vicinity of existing and proposed utility improvements. Coordinate routing and bury depth of proposed utilities to avoid conflicts with all other work to be performed under this Contract. Maintain accurate "As-Built" records of all underground utility work.
7. All work performed within public right-of-way shall be scheduled and coordinated with local governing authorities. Work within Lincoln Street right-of-way shall be scheduled with KDOT. Provide temporary traffic control (signage, barricades, etc.) in accordance with KDOT and local standards.

**SITE UTILITIES SCHEDULE**

- 1 Proposed storm sewer. See Storm Sewer Plan & Profile - South (Sh. C5.2) for installation requirements.
- 2 Proposed storm sewer. See Storm Sewer Plan & Profile - North (Sh. C5.5) for installation requirements.
- 3 Proposed roof drain line. Install and connect to storm sewer and to building downspout with boot in manner acceptable to the Architect. Drain line pipe shall be 3-inch diameter, unless otherwise indicated.
- 4 Proposed roof drain line to interior roof drain system. Connect to storm sewer and to building roof drain system. See and coordinate installation with Building Mechanical/Plumbing Plans for line size(s), location(s) and elevation(s).
- 5 Install Area Drain. See Storm Sewer Details (Sh. C7.4.2).
- 6 Install 8-inch drain line to storm sewer system.
- 7 Proposed retaining wall subdrainage system. Install perforated pipe within filter material along wall and non-perforated pipe when outside filter material zone. See Specifications and Site Wall Details (Sh. C7.1). Perforated pipe may be set level, non-perforated pipe shall have minimum 0.2% slope to drain to outlet. Install and connect to storm sewer manhole or drainage structure. Install flap valve (Nansen WR-5004-A), or acceptable equivalent at pipe connection to manhole or drainage structure. Routing to storm sewer is schematic in nature and may vary from that shown. Coordinate location and bury depth to ensure positive drainage and avoid conflicts with other utilities.
- 8 Proposed retaining wall subdrainage system. Install perforated pipe within filter material along wall and non-perforated pipe when outside filter material zone. See Specifications and Site Wall Details (Sh. C7.1). Perforated pipe may be set level, non-perforated pipe shall have minimum 0.2% slope to drain to outlet. Install and drain to daylight. Install acceptable rodent guard and hand-formed concrete and section at outlet.
- 9 Proposed building foundation subdrainage system. Install perforated pipe within filter material along wall and non-perforated pipe when outside filter material zone. See Specifications and Site Wall Details (Sh. C7.1). Perforated and non-perforated pipe shall have minimum 0.2% slope to drain to outlet. Install and connect to storm sewer manhole. Install flap valve (Nansen WR-5004-A), or acceptable equivalent at pipe connection to manhole. Coordinate location and bury depth to ensure positive drainage and avoid conflicts with other utilities.
- 10 Install subdrainage system cleanout.
- 11 Install 6-inch water line to proposed building fire protection system. See M/E Site Plan (Sh. ME1.1). Connect to existing main under Eighth Street and install 6x6 inch valve and valve box. Coordinate with City of Wamego and make connection in accordance with their requirements.
- 12 Install 4-inch domestic water service to building. Connect to existing service at point of disconnection during demolition. See Site Demolition (Sh. C2.1). Layout is schematic in nature. Coordinate location and bury depth (min. 42-inches below finish grade) to avoid conflicts with other utilities and construction. No pipe joint shall be less than 10-feet from sanitary sewer when water line clearance is less than 2-feet above sanitary line at crossing(s). Connect to existing water service where line enters building, except where otherwise indicated on M/E Site Plan (Sh. ME1.1). Reinstall salvaged meter, meter box and related appurtenances in accordance with City of Wamego requirements.
- 13 Install new 1-inch building water service from new 4-inch service to the existing Science Building wing. Connect to existing service where line enters building. See Site Demolition (Sh. C2.1).
- 14 Install new 8-inch sanitary service line and manhole. Connect to existing manhole.
- 15 Install new 6-inch sanitary service line between manhole and proposed service eye. Install 6x4x4 service eye. Layout is schematic in nature. Coordinate exact location and elevation of service line to maintain adequate slope and avoid conflicts with other utilities and construction. No pipe joint shall be less than 10-feet from domestic water line when water line clearance is less than 2-feet above sanitary line at crossing(s).
- 16 Install new 4-inch sanitary service line to building. Minimum pipe slope shall be 2.0%, unless otherwise specified. Connect to existing sanitary service where line enters building.
- 17 Install sanitary sewer cleanout (top).
- 18 Tap existing main beneath Eighth Street and install 2 1/2-inch copper irrigation service line to a point 2-feet north of proposed sidewalk and install 2-inch irrigation meter with meter box, setter, related appurtenances and 2-foot pipe stub ready to be connected to by Others. Cap stub. Coordinate and install in accordance with City of Wamego requirements. Bury depth shall be 42-inches minimum below finish grade.
- 19 Install 6-inch dia. Schedule 40 PVC irrigation sleeve beneath pavement. Sleeve shall extend minimum 12-inches beyond pavement limits. Temporarily cap sleeve ends. Bury depth shall be 18-inches below pavement surface where no curb is proposed and 24-inches below top of curb when crossing curb. Increase bury depth when necessary to place sleeve below respective pavement section. Measure locations all sleeve ends from permanent improvements and permanently mark pavement at sleeve location in a manner acceptable to the Architect/Engineer to facilitate future locating.
- 20 Install 4-inch dia. Schedule 40 PVC irrigation sleeve beneath pavement. Sleeve shall extend minimum 12-inches beyond pavement limits. Temporarily cap sleeve ends. Bury depth shall be 12-inches below pavement surface where no curb is proposed and 18-inches below top of curb when crossing curb. Increase bury depth when necessary to place sleeve below respective pavement section. Measure locations all sleeve ends from permanent improvements and permanently mark pavement at sleeve location in a manner acceptable to the Architect/Engineer to facilitate future locating.
- 21 Restore track surface disturbed during construction with placement of a minimum of 4-inch thick compacted aggregate surface. Aggregate material and gradation shall be similar to that existing on the track. Drag and fine grade to match surrounding surfaces in a manner acceptable to the Architect. Top of rim of new manhole located within track boundary shall be approximately 4-inches below existing grade to accommodate placement of aggregate surface on top.

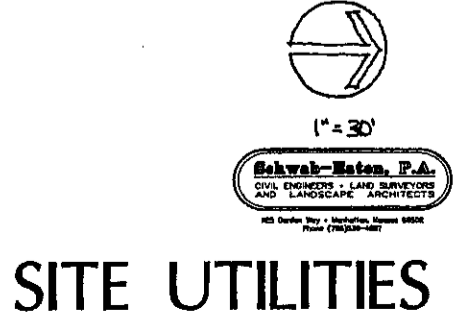
PROJECT NO 1928.03  
DATE OCT 2008  
DRAWN BY LLB  
REVISION

**The Ken Ebert Design Group**  
Architects and Planning Consultants  
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Mantoloking, Kansas 66502  
(765) 776-1800 (765) 776-9906 FAX



**Wamego High School Improvements Phase I**  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

SHEET  
**C5.1**  
SITE UTILITIES

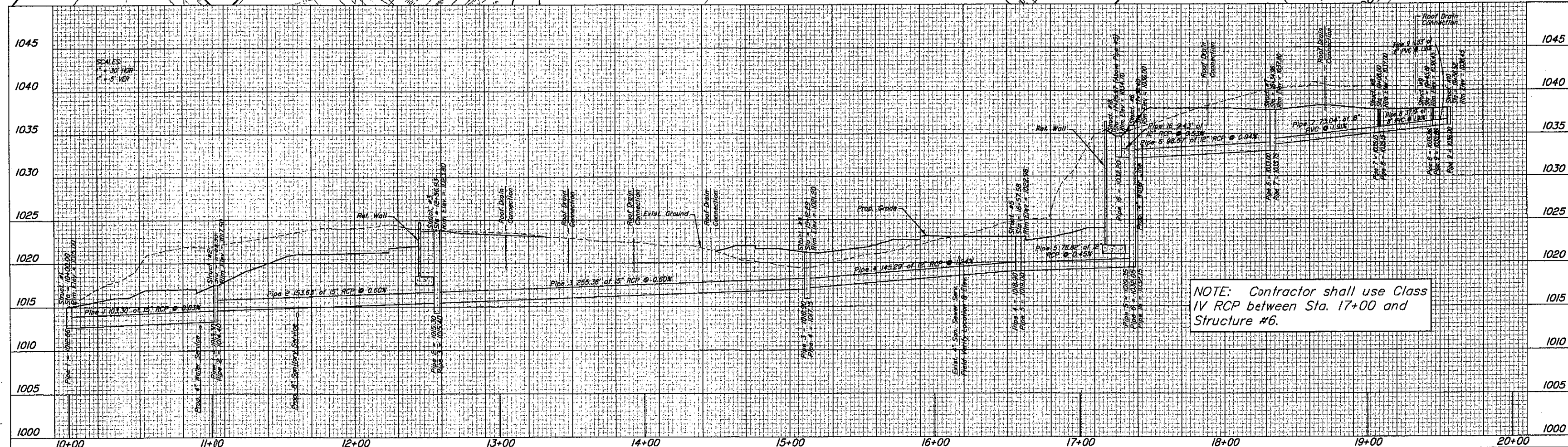
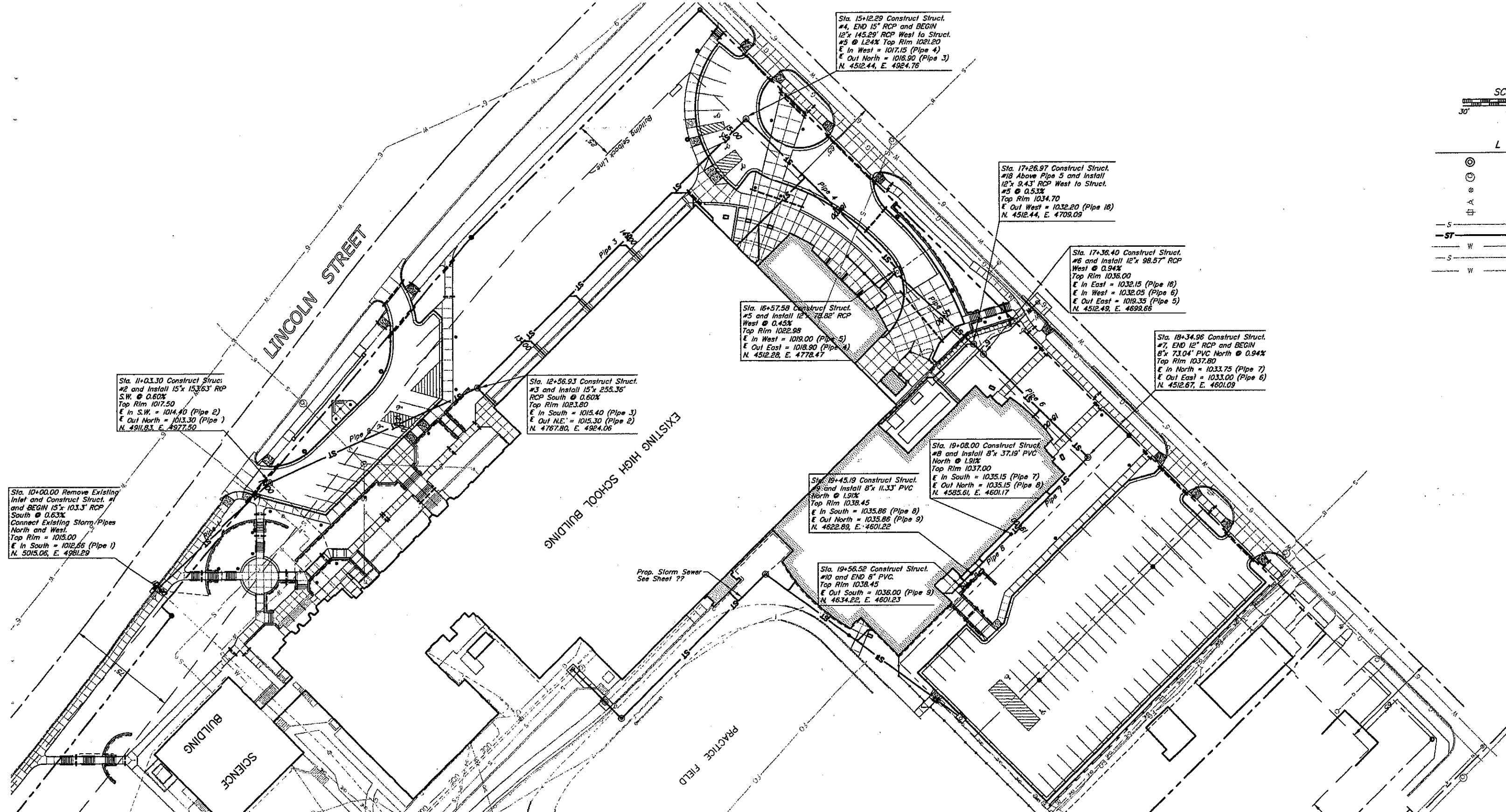


**Schwab-Eaton, P.A.**  
CIVIL ENGINEERS - LAND SURVEYORS AND LANDSCAPE ARCHITECTS  
48 South Hwy. 100, Wamego, Kansas 66547

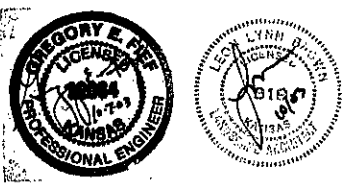


SCALE 1" = 30'  
 30' 0 30' 60'

- LEGEND**
- ⊙ STORM SEWER MANHOLE
  - ⊙ SANITARY SEWER MANHOLE
  - ⊙ WATER VALVE
  - ⊙ FIRE HYDRANT
  - ⊙ POWER POLE
  - PROP. SANITARY SEWER LINE
  - PROP. STORM SEWER LINE
  - PROP. WATER LINE
  - EXIST. SANITARY SEWER LINE
  - EXIST. WATER LINE



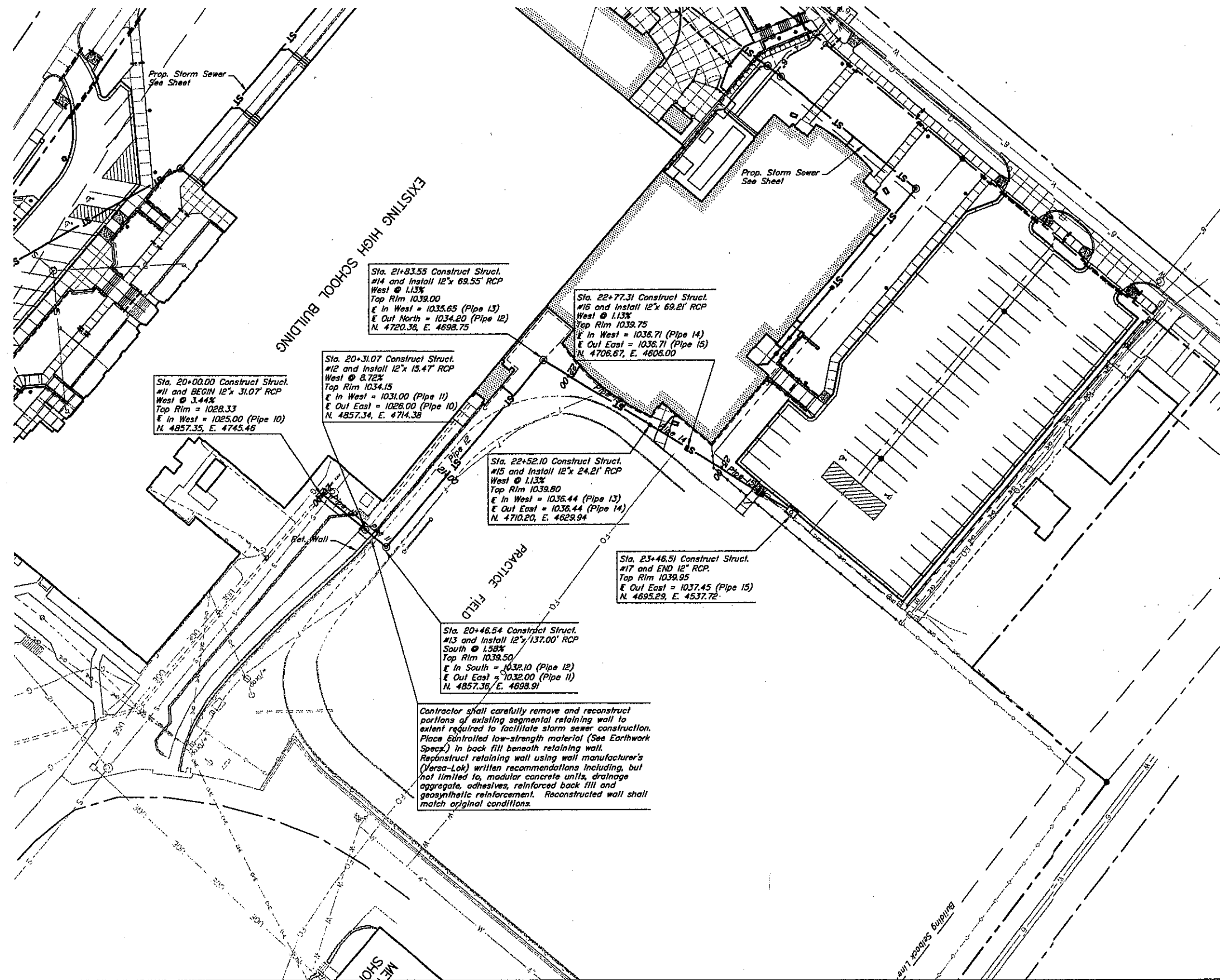
NOTE: Contractor shall use Class IV RCP between Sta. 17+00 and Structure #6.



**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
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SHEET  
**C5.2**  
 STORM SEWER PLAN & PROFILE (SOUTH)

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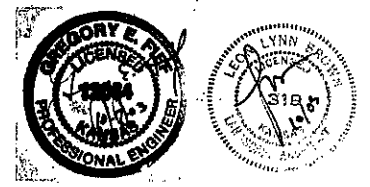
SCALE 1" = 30'

LEGEND

- ⊙ STORM SEWER MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ WATER VALVE
- ⊙ FIRE HYDRANT
- ⊙ POWER POLE
- S- PROP. SANITARY SEWER LINE
- ST- PROP. STORM SEWER LINE
- W- PROP. WATER LINE
- S- EXIST. SANITARY SEWER LINE
- W- EXIST. WATER LINE

PROJECT NO 1928.03  
 DATE OCT 2009  
 DRAWN BY DC  
 REVISION

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 (785) 776-1800 (785) 776-9906 FAX



Sta. 21+83.55 Construct Struct. #14 and install 12" x 69.55' RCP West @ 1.13% Top Rim 1039.00  
 E In West = 1035.65 (Pipe 13)  
 E Out North = 1034.20 (Pipe 12)  
 N. 4720.36, E. 4692.75

Sta. 22+77.31 Construct Struct. #16 and install 12" x 69.21' RCP West @ 1.13% Top Rim 1039.75  
 E In West = 1036.71 (Pipe 14)  
 E Out East = 1036.71 (Pipe 15)  
 N. 4706.67, E. 4606.00

Sta. 20+00.00 Construct Struct. #11 and BEGIN 12" x 31.07' RCP West @ 3.44% Top Rim = 1028.33  
 E In West = 1025.00 (Pipe 10)  
 N. 4857.35, E. 4743.46

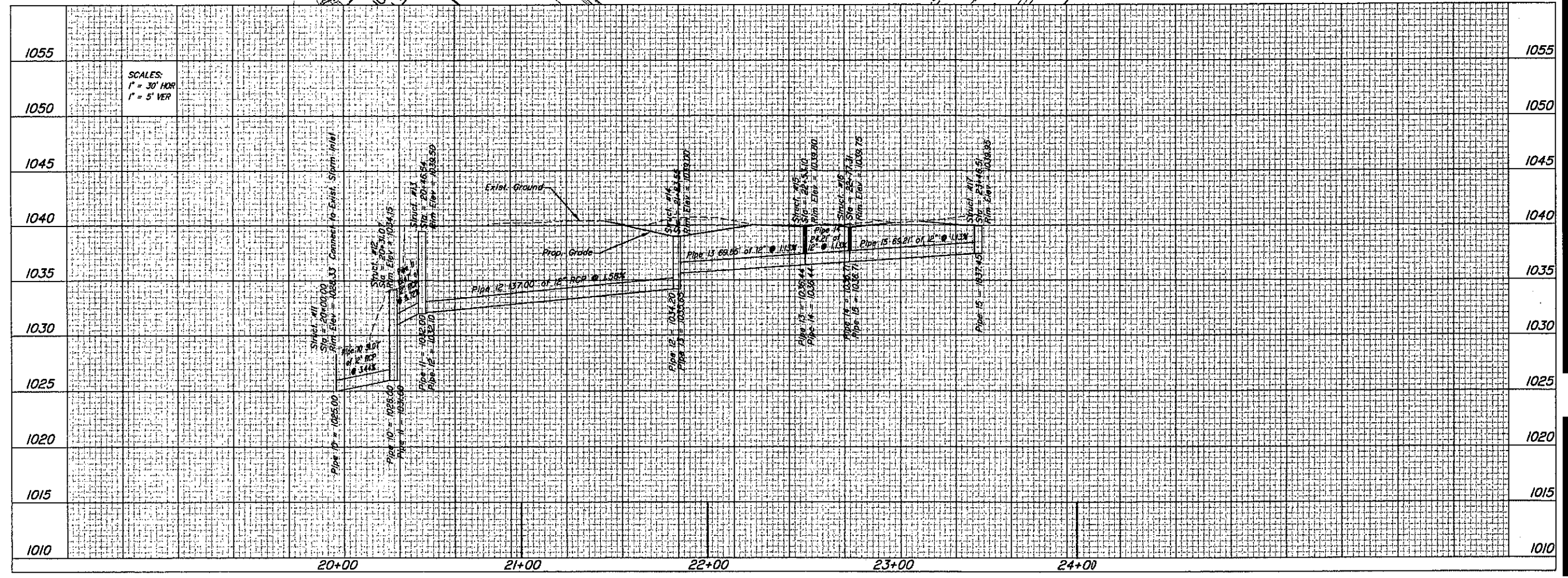
Sta. 20+31.07 Construct Struct. #12 and install 12" x 15.47' RCP West @ 6.72% Top Rim 1034.15  
 E In West = 1031.00 (Pipe 11)  
 E Out East = 1026.00 (Pipe 10)  
 N. 4857.34, E. 4714.38

Sta. 22+52.10 Construct Struct. #15 and install 12" x 24.21' RCP West @ 1.13% Top Rim 1039.80  
 E In West = 1036.44 (Pipe 13)  
 E Out East = 1036.44 (Pipe 14)  
 N. 4710.20, E. 4629.94

Sta. 23+46.51 Construct Struct. #17 and END 12" RCP Top Rim 1039.55  
 E Out East = 1037.45 (Pipe 15)  
 N. 4695.29, E. 4537.72

Sta. 20+46.54 Construct Struct. #13 and install 12" x 137.00' RCP South @ 1.26% Top Rim 1039.50  
 E In South = 1032.10 (Pipe 12)  
 E Out East = 1032.00 (Pipe 11)  
 N. 4857.35, E. 4698.91

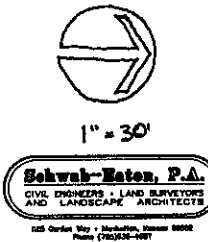
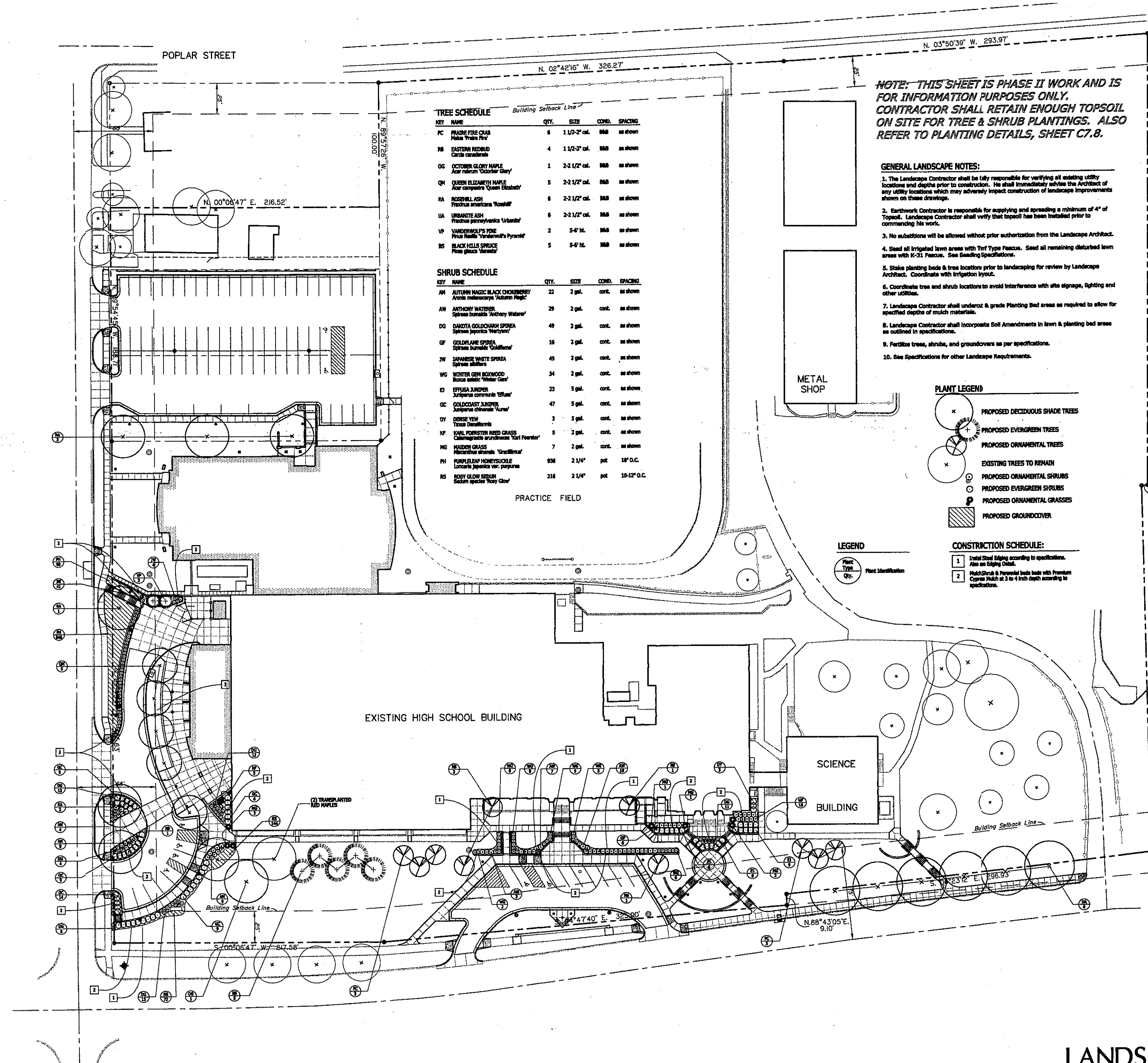
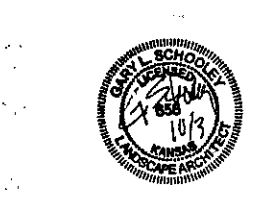
Contractor shall carefully remove and reconstruct portions of existing segmental retaining wall to extent required to facilitate storm sewer construction. Place substituted low-strength material (See Earthwork Specs.) in back fill beneath retaining wall. Reconstruct retaining wall using wall manufacturer's (Versa-Lok) written recommendations including, but not limited to, modular concrete units, drainage aggregate, adhesives, reinforced back fill and geosynthetic reinforcement. Reconstructed wall shall match original conditions.



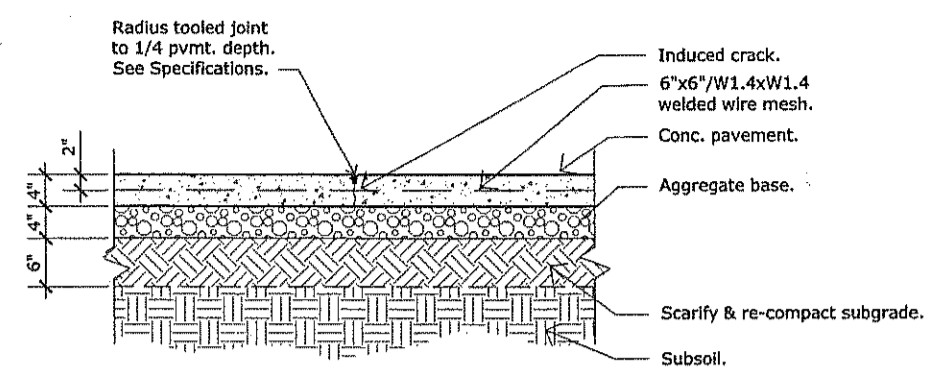
**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

SHEET  
**C5.3**  
 STORM SEWER PLAN & PROFILE (NORTH)

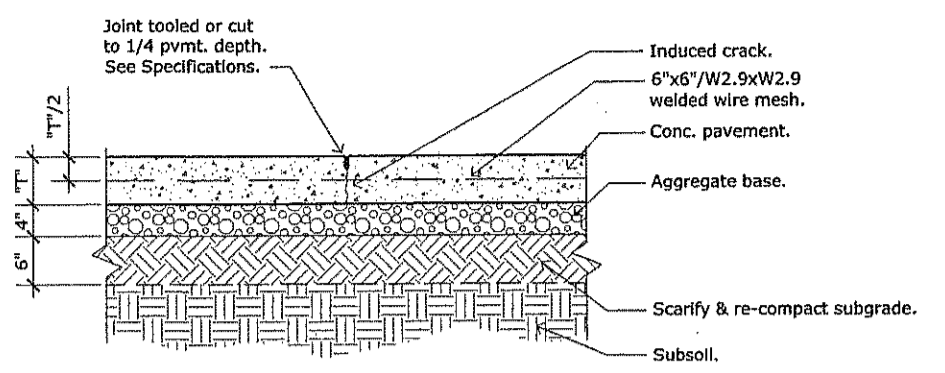




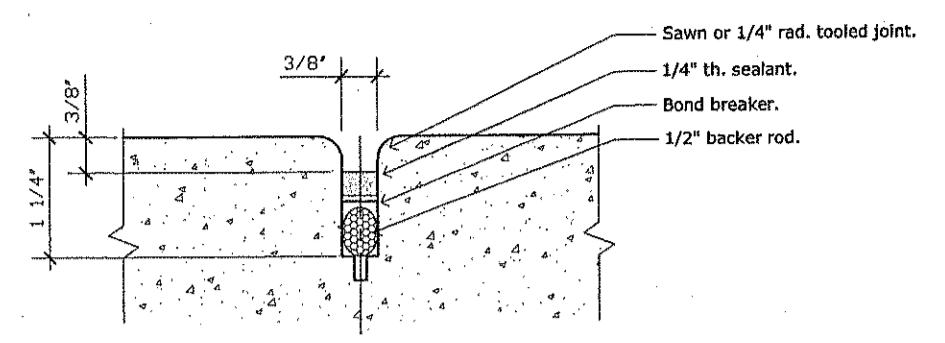




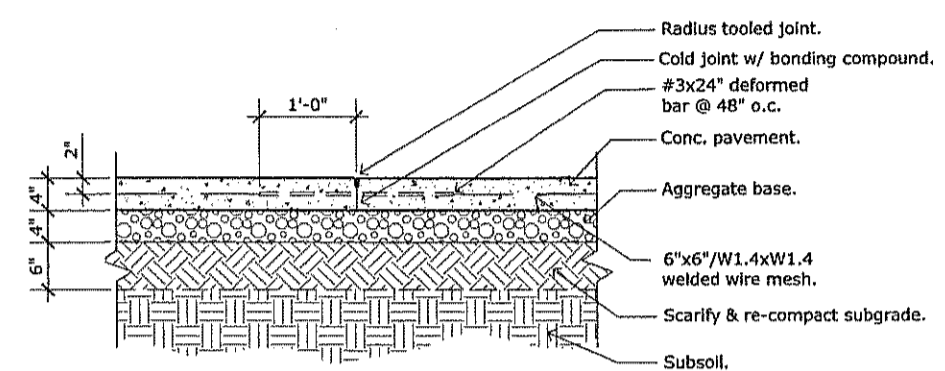
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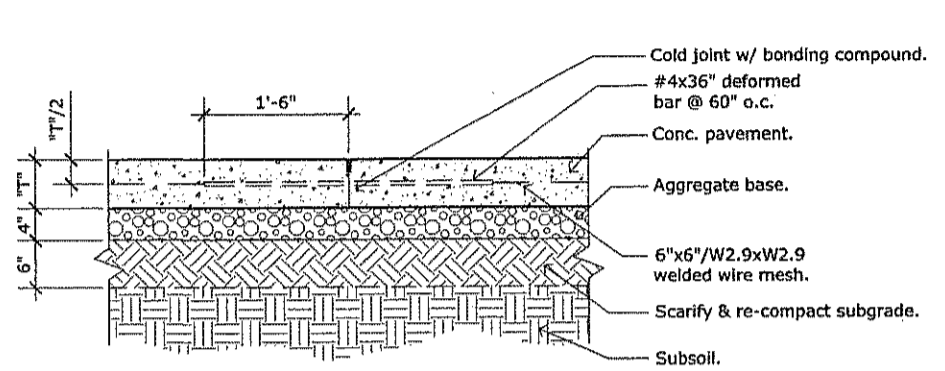
**E** TYP. CONTRACTION JOINT  
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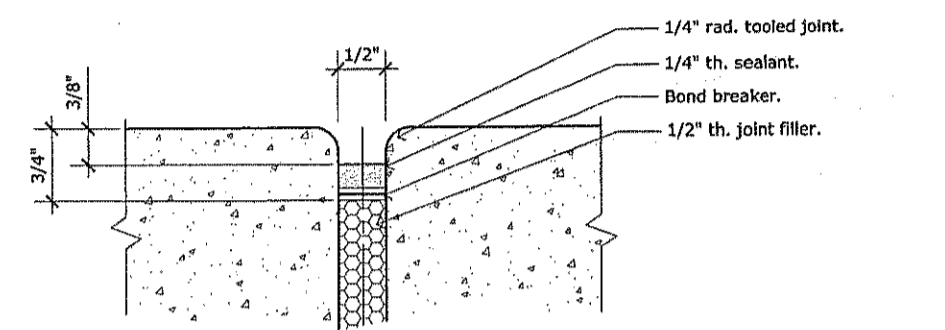
**I** TYP. JOINT SEALANT RESERVIOR  
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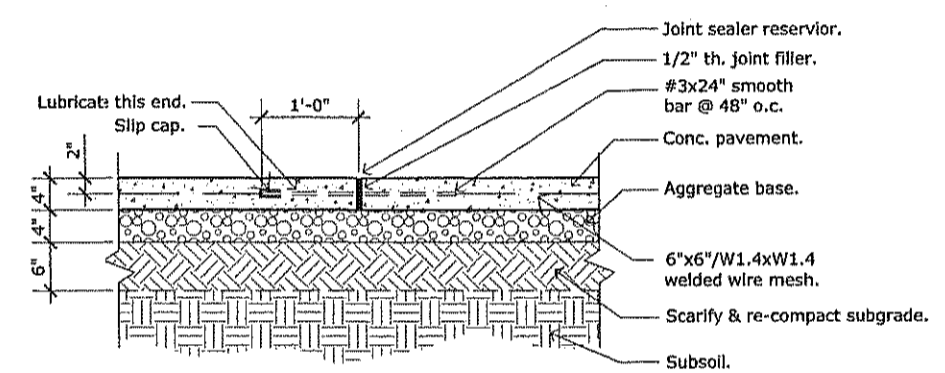
**B** TYP. CONSTRUCTION JOINT  
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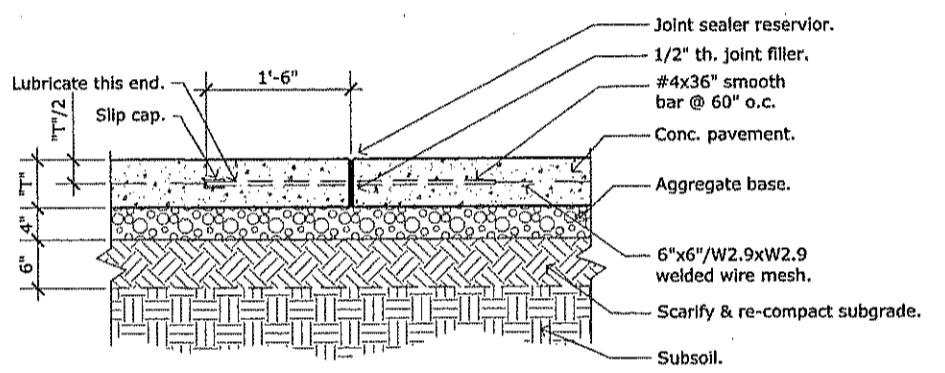
**F** TYP. CONSTRUCTION JOINT  
 Scale: 1" = 1'-0" (VEHICULAR PVMT.)



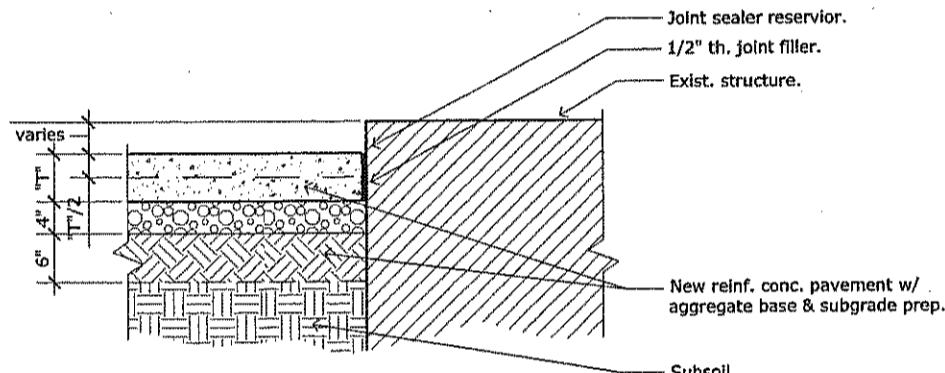
**J** TYP. JOINT SEALANT RESERVIOR @ EXPANSION JOINT  
 Scale: 1" = 1'



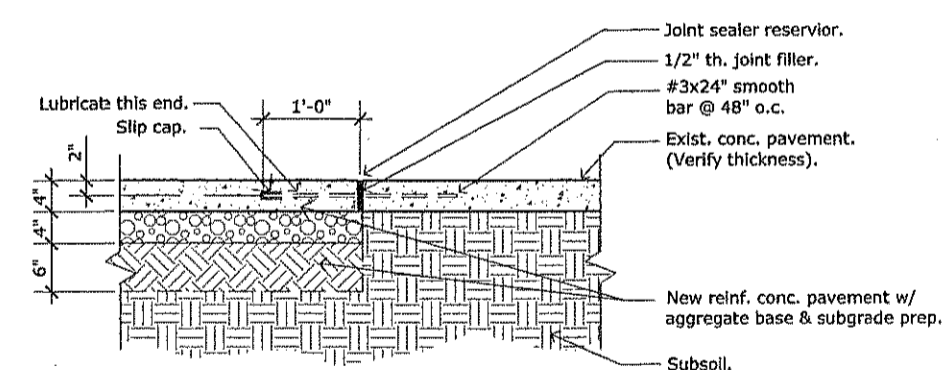
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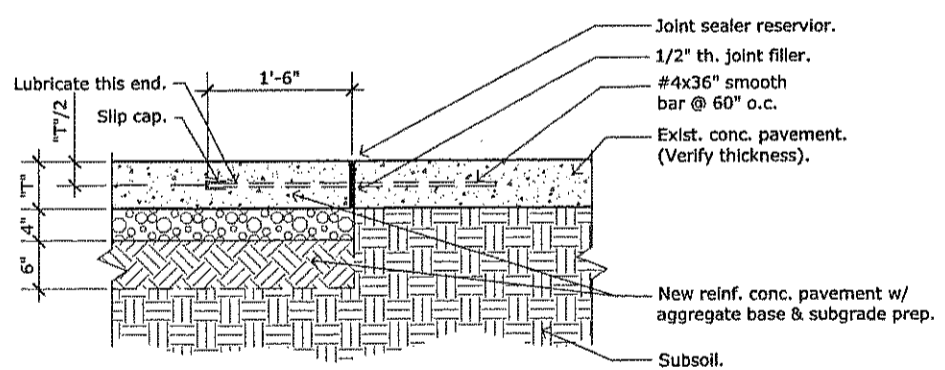
**G** TYP. EXPANSION JOINT  
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**K** TYP. ISOLATION JOINT  
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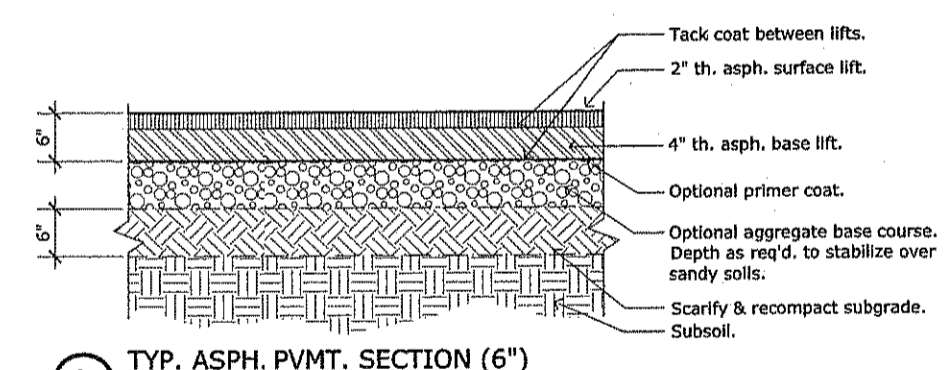


**D** TYP. EXPANSION JOINT AGAINST EXIST. CONC. PVG.  
 Scale: 1" = 1'-0" (PEDESTRIAN PVMT.)

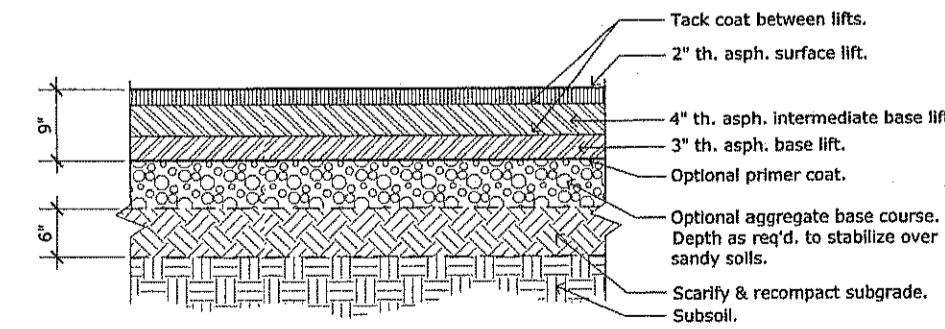


**H** TYP. EXPANSION JOINT AGAINST EXIST. CONC. PVG.  
 Scale: 1" = 1'-0" (VEHICULAR PVMT.)

THICKNESS "T":  
 "T" = 5" in parking stalls.  
 "T" = 7" in drives and aisles.



**L** TYP. ASPH. PVMT. SECTION (6")  
 Scale: 1" = 1'-0"



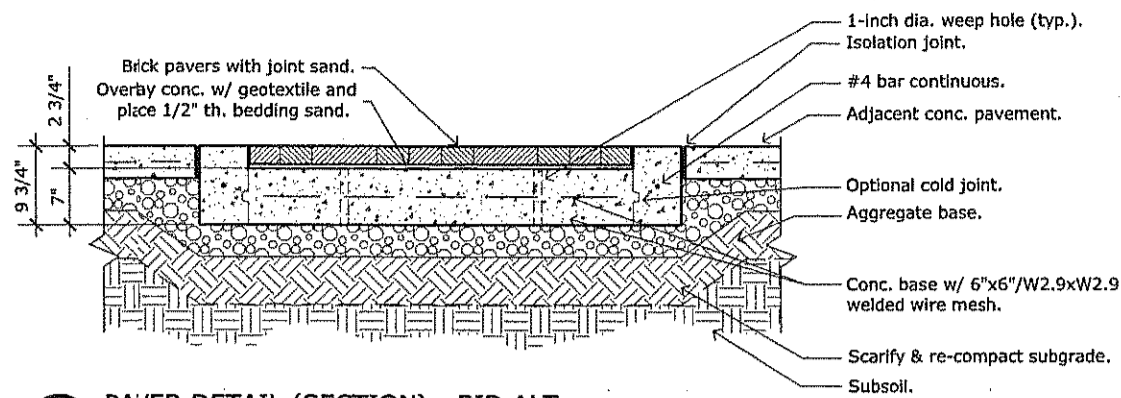
**A** TYP. ASPH. PVMT. SECTION (9")  
 Scale: 1" = 1'-0"

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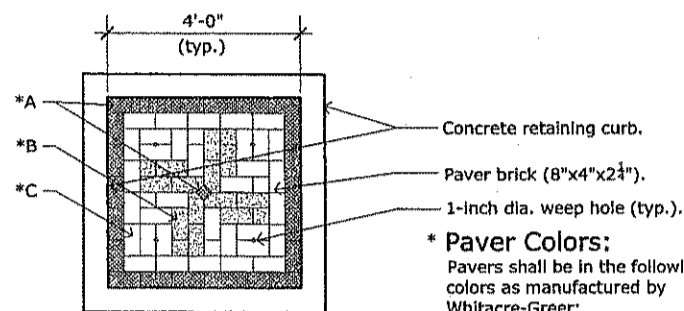


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
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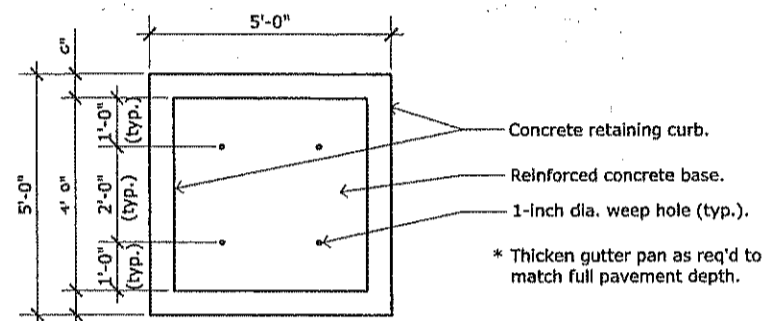




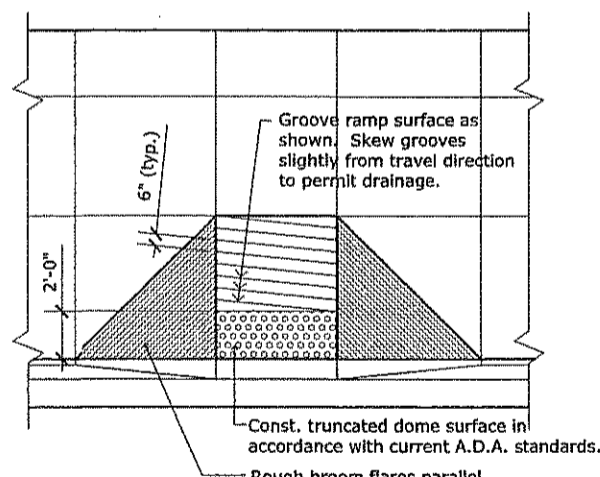
**A PAVER DETAIL (SECTION) - BID ALT.**  
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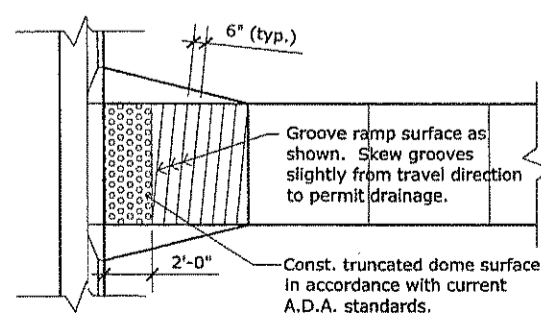
**B PAVER MOTIF (PLAN) - BID ALT.**  
Scale: 1/2" = 1'-0"



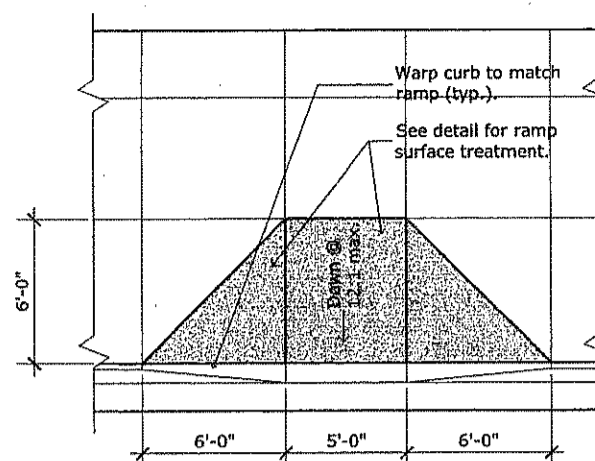
**C PAVER BASE (PLAN) - BID ALT.**  
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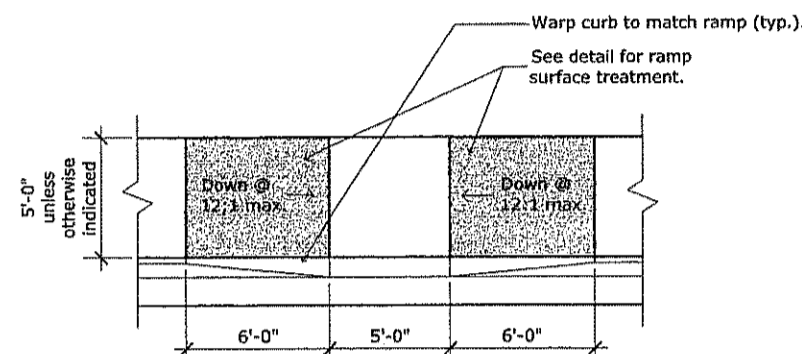
**D FLARED CURB RAMP SURFACE (PLAN)**  
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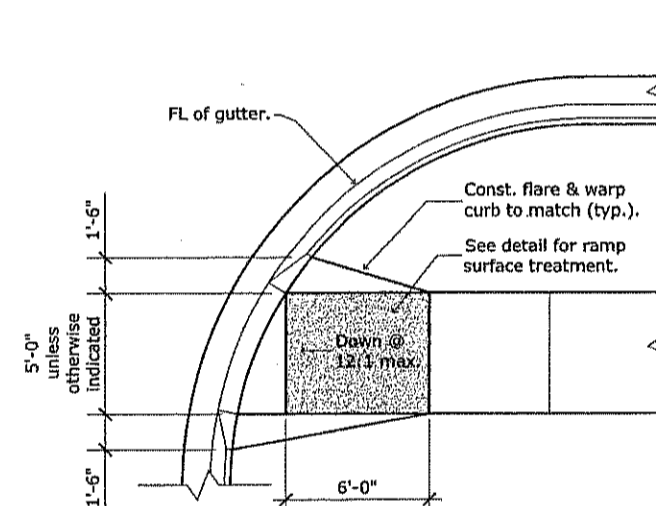
**E STD. CURB RAMP SURFACE (PLAN)**  
Scale: 1/4" = 1'-0"



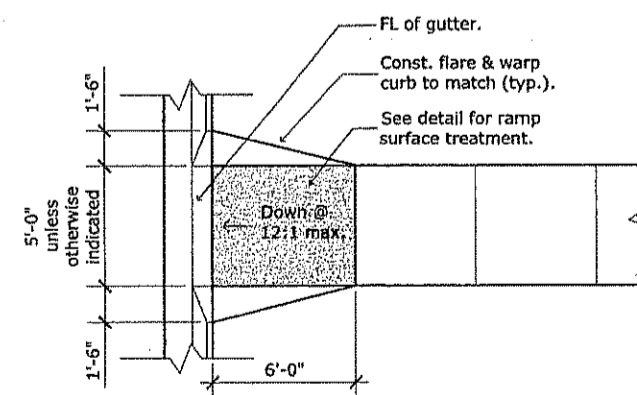
**F SIDEWALK CURB RAMP LOCATED IN PEDESTRIAN CROSS-TRAFFIC (PLAN)**  
Scale: 1/4" = 1'-0"



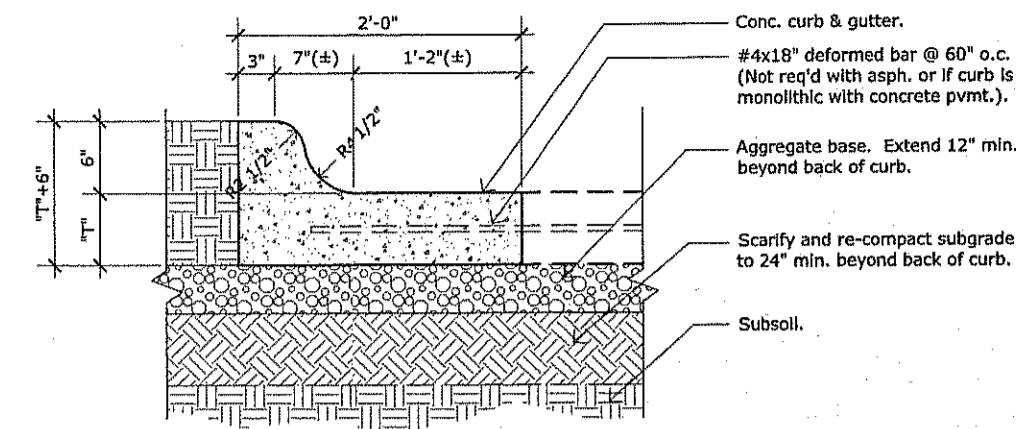
**G STD. SIDE-LOAD CURB RAMP (PLAN)**  
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**H SIDEWALK CURB RAMP ON CURB RADIUS (PLAN)**  
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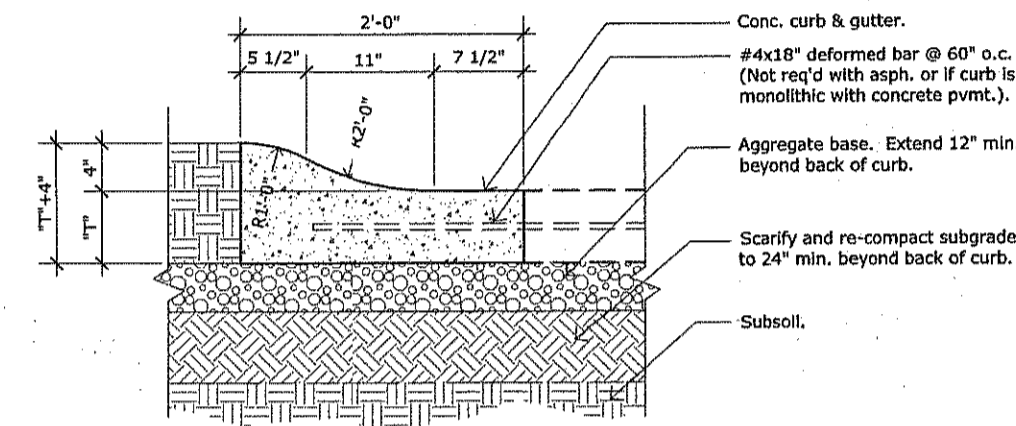


**I STD. SIDEWALK CURB RAMP (PLAN)**  
Scale: 1/4" = 1'-0"

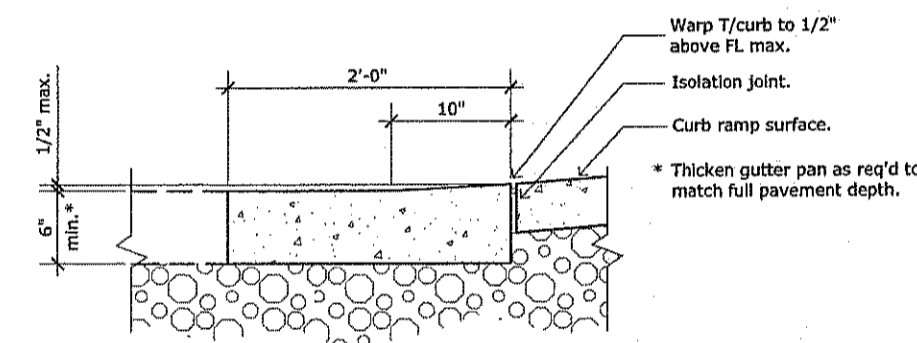


**J TYP. CONC. BARRIER CURB**  
Scale: 1 1/2" = 1'-0"

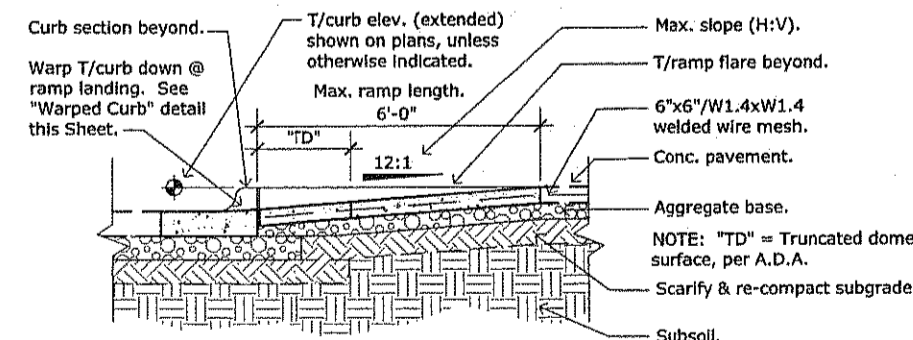
THICKNESS "T":  
T = 6" abutting parking stalls.  
T = 7" abutting 7" conc.  
T = 9" abutting 9" asphalt.



**K TYP. CONC. LAYBACK CURB**  
Scale: 1 1/2" = 1'-0"

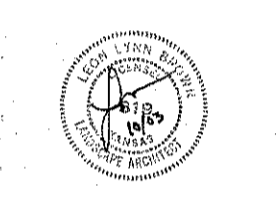


**L WARPED CURB @ RAMP LANDING**  
Scale: 1 1/2" = 1'-0"



**M TYP. CURB RAMP (SECTION "X-X")**  
Scale: 1/2" = 1'-0"

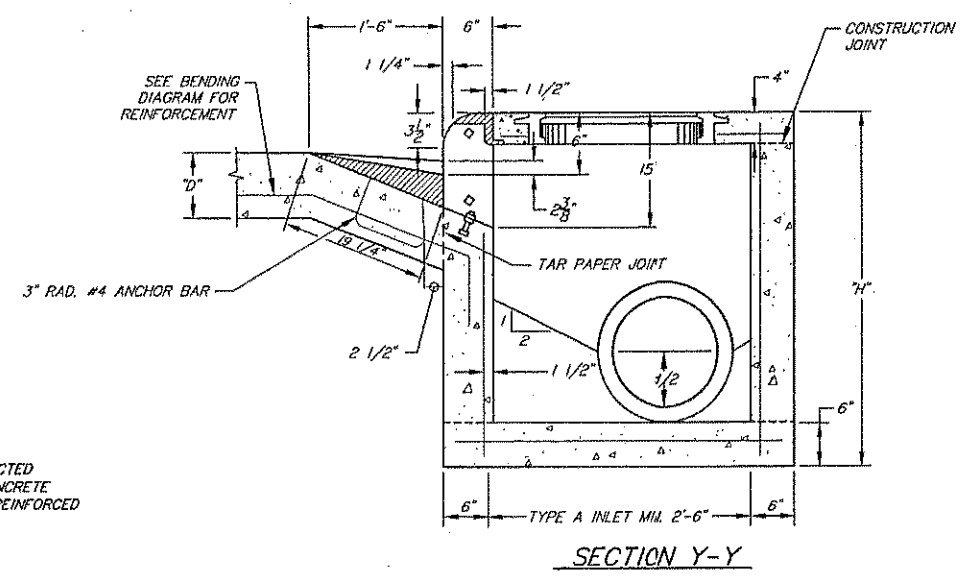
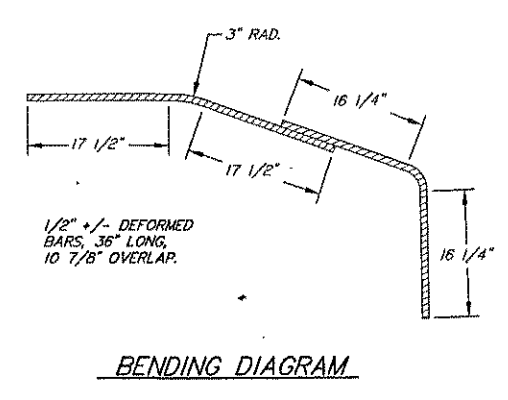
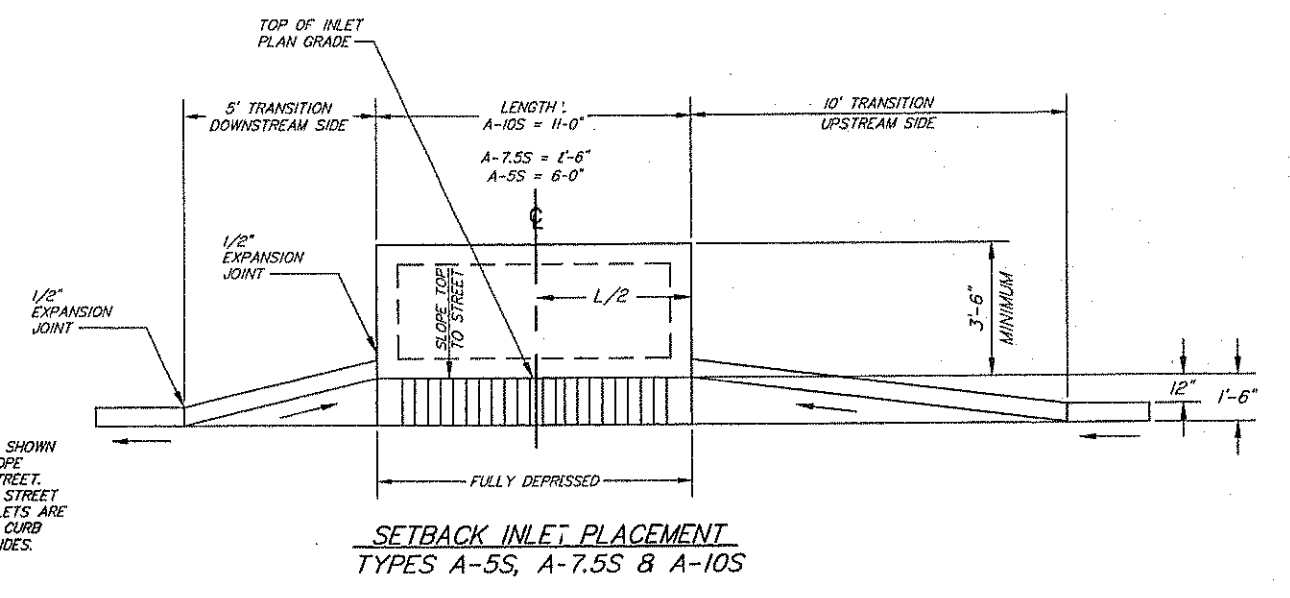
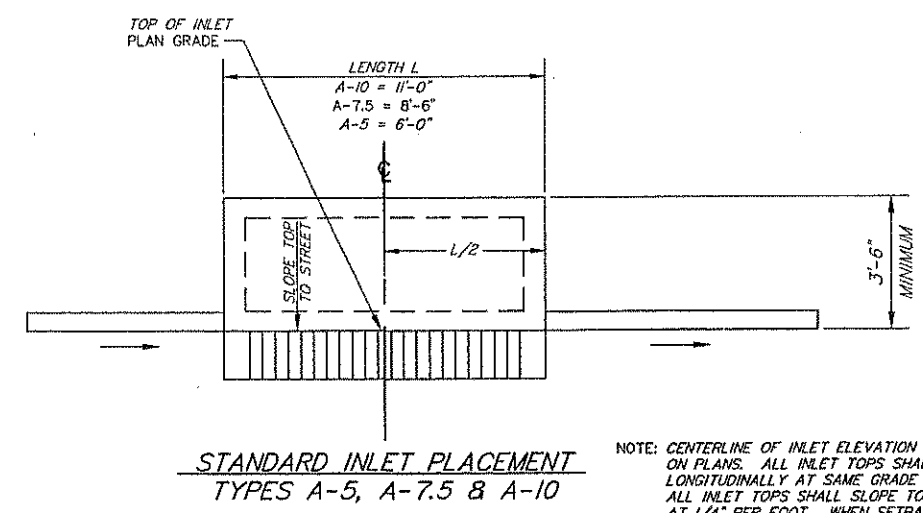
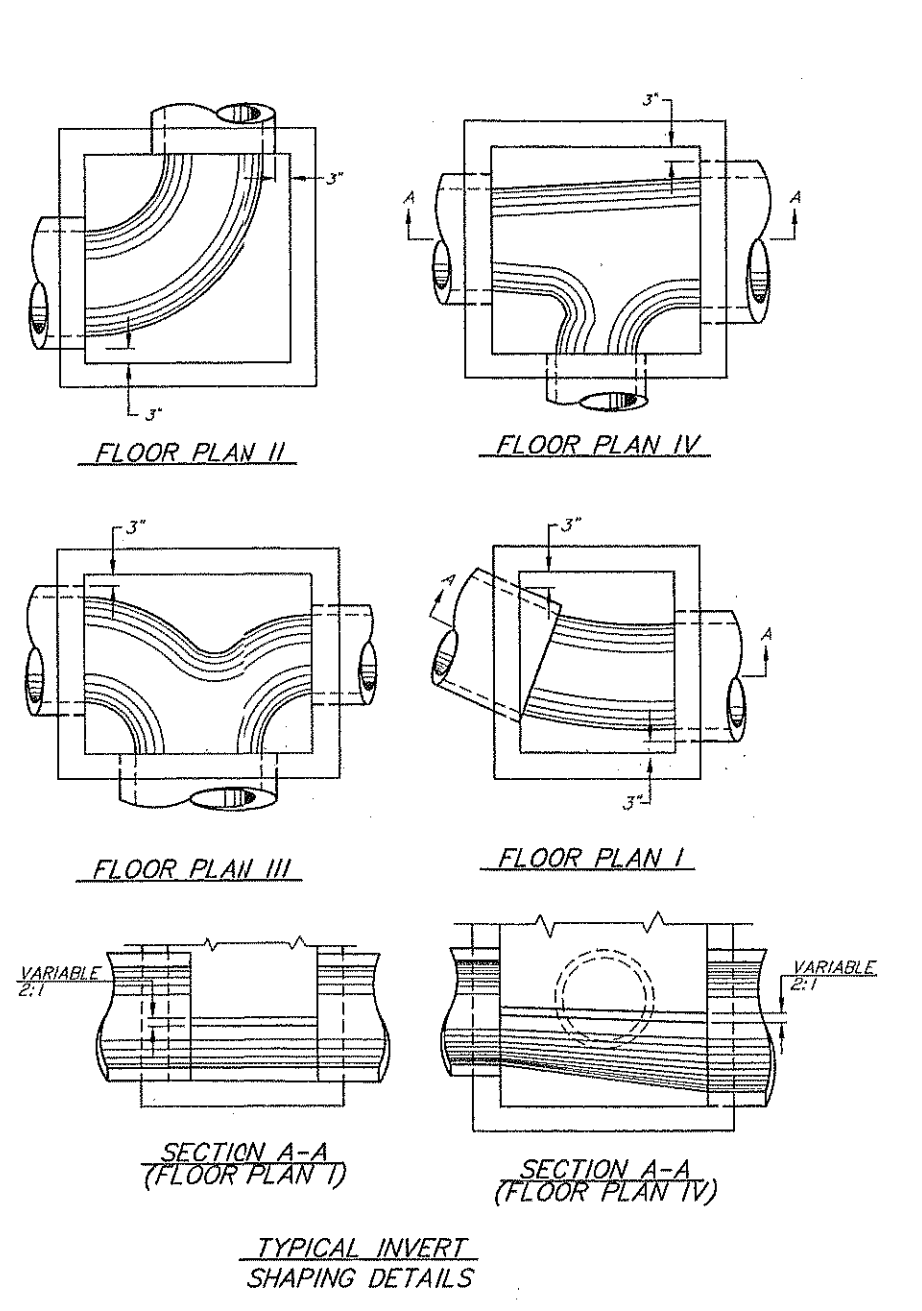
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7851 776-1800 7851 776-9906 FAX



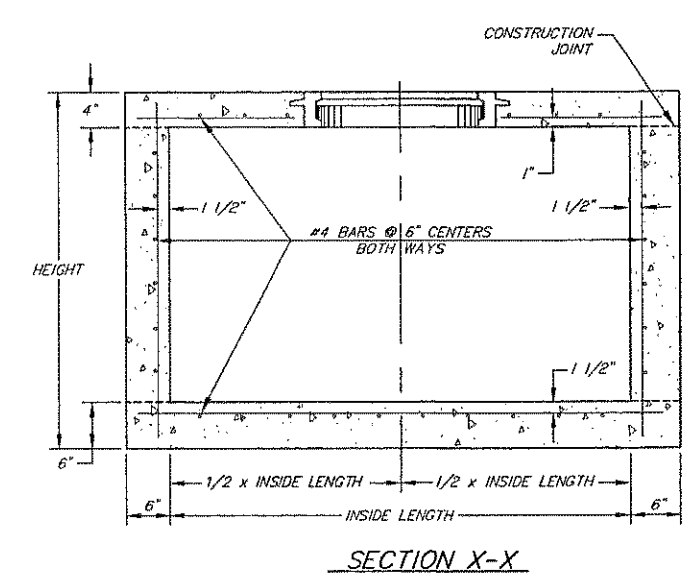
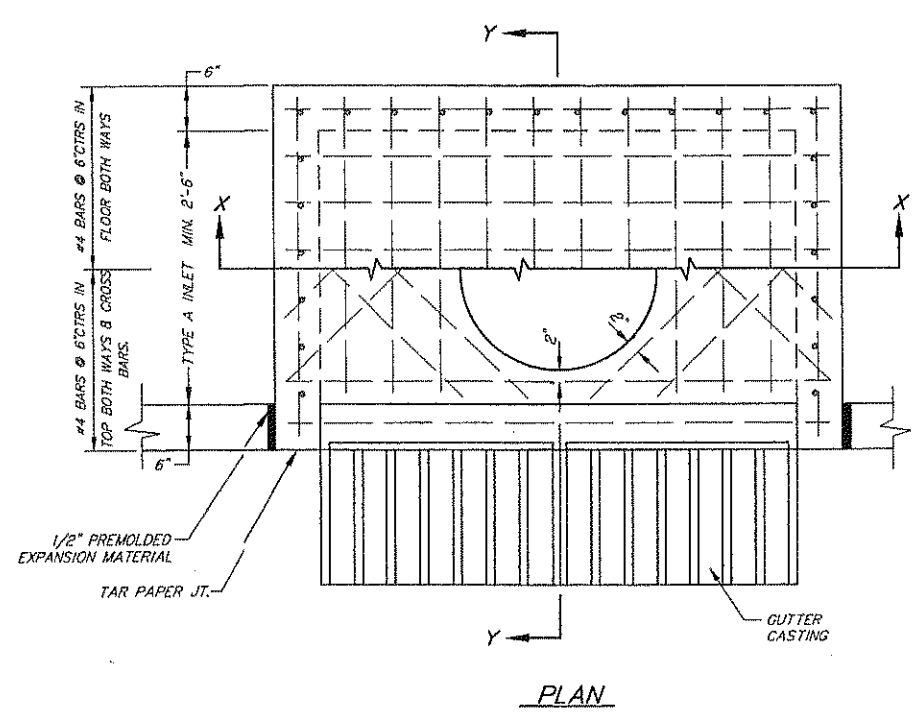
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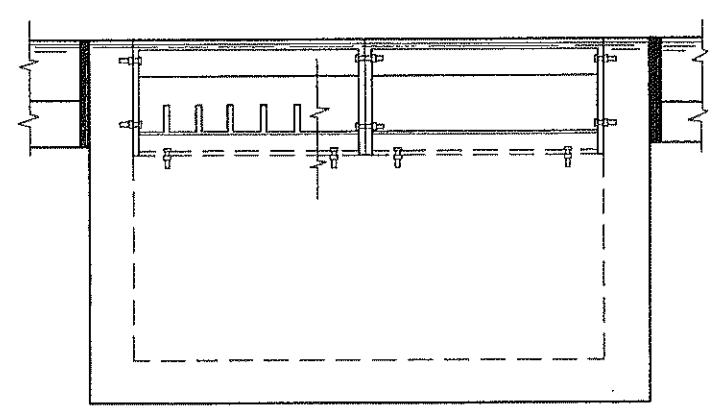


NOTES:  
 AT THE CONTRACTOR'S OPTION, INLET BOXES MAY BE CONSTRUCTED OF REINFORCED CONCRETE AS SHOWN, OR MAY BE PRE-CAST CONCRETE BOXES WITH A POURED REINFORCED CONCRETE TOP SLAB. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III OR BETTER. THE RING AND COVER SHALL BE CLAY AND BAILEY NO.2084-3 OR APPROVED EQUIVALENT.  
 GUTTER CASTINGS SHALL BE CLAY AND BAILEY NO. 2084-1 OR APPROVED EQUIVALENT, AND SHALL BE INSTALLED WHEN THE INLET IS NOT LOCATED IN A SWAMP.  
 INLET LID SUPPORT AT FACE OF INLET SHALL BE CLAY AND BAILEY NO. 2086-2.



TYPE	INSIDE WIDTH *	INSIDE LENGTH
A-5	2'-6" MIN	5'-0"
A-5S	2'-6" MIN	5'-0"
A-7.5	2'-6" MIN	7'-6"
A-7.5S	2'-6" MIN	7'-6"
A-10	2'-6" MIN	10'-0"
A-10S	2'-6" MIN	10'-0"

\* FOR PIPES UP TO 24" IN DIAMETER WIDTH SHALL BE 2'6". FOR PIPES LARGER THAN 24" IN DIAMETER WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 3" CLEARANCE ON EACH SIDE.

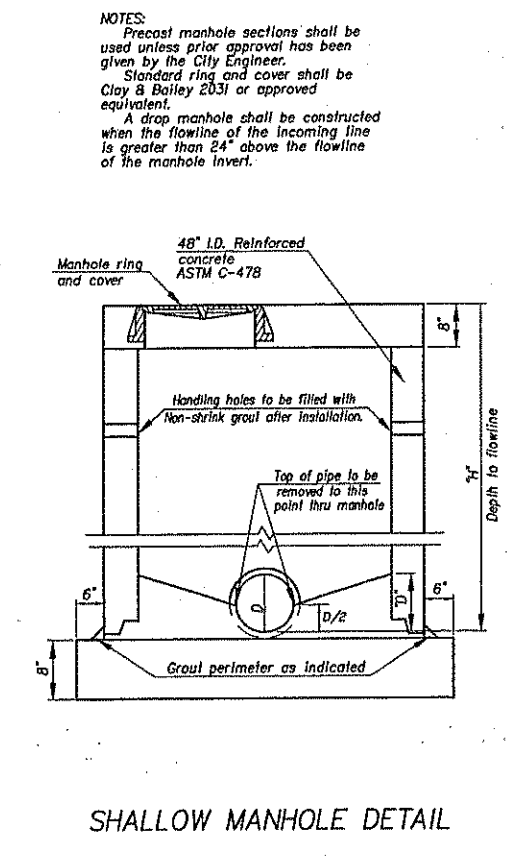
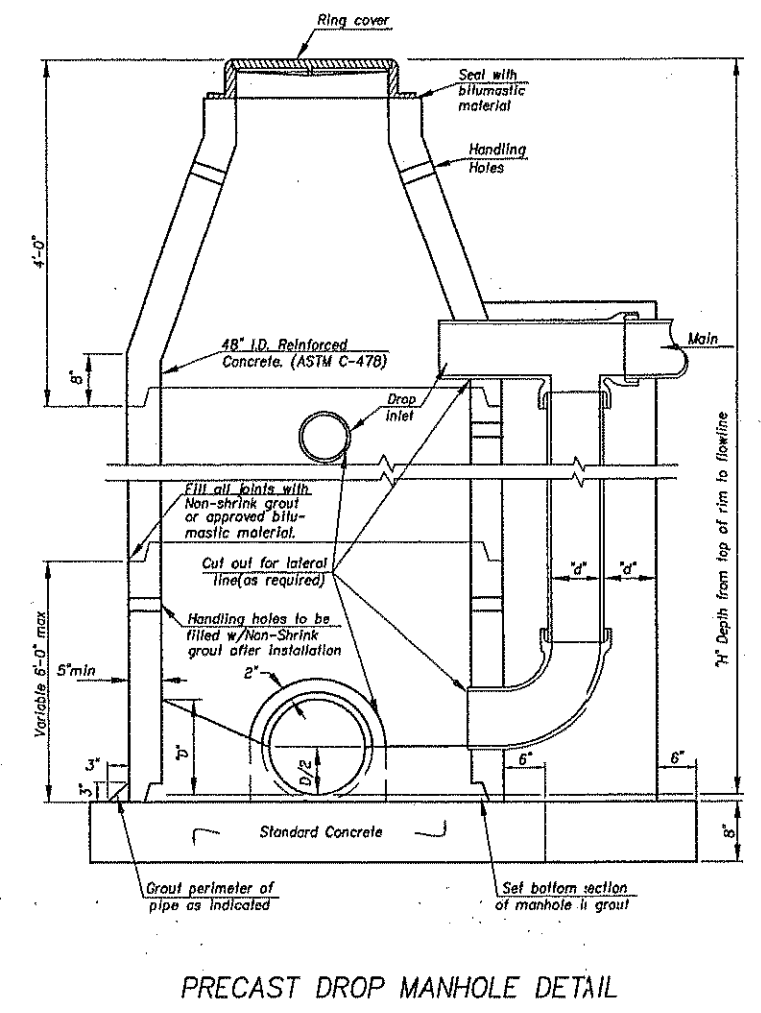
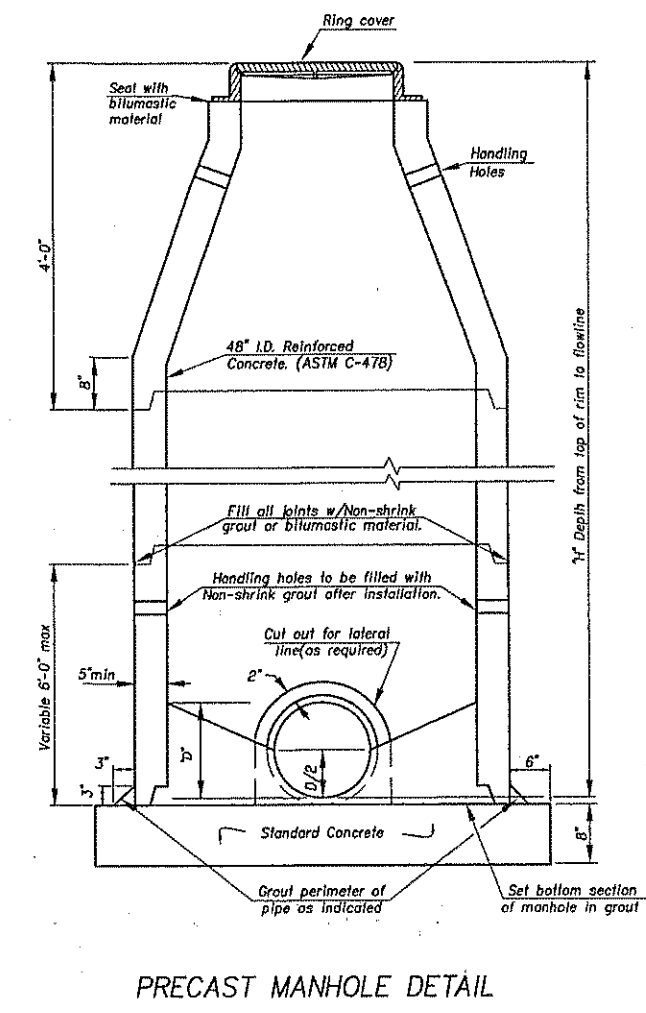
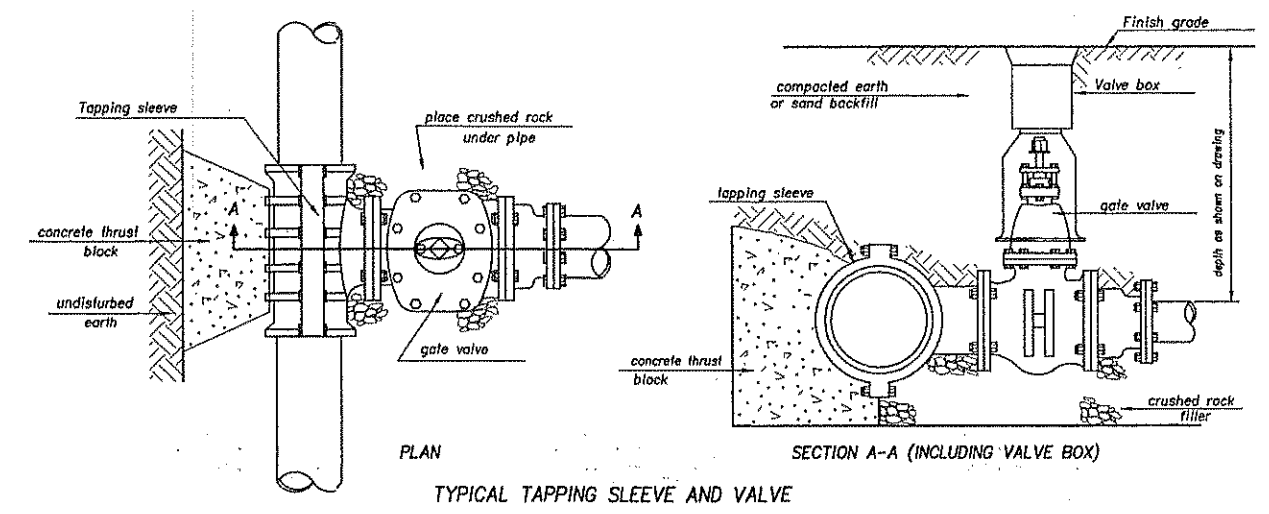


**STORM SEWER DETAILS**

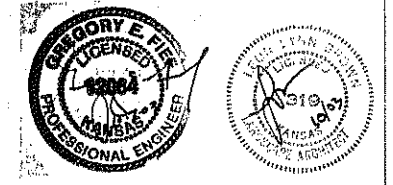
**Schwab-Eaton, P.A.**  
 CIVIL ENGINEERS • LAND SURVEYORS  
 AND LANDSCAPE ARCHITECTS  
 125 Garden Way • Manhattan, Kansas 66502  
 Phone (785)333-6261 • Fax (785)333-6449

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NOTES:  
 Precast manhole sections shall be used unless prior approval has been given by the City Engineer.  
 Standard ring and cover shall be City & Bailey 2031 or approved equivalent.  
 A drop manhole shall be constructed when the flowline of the incoming line is greater than 24" above the flowline of the manhole invert.

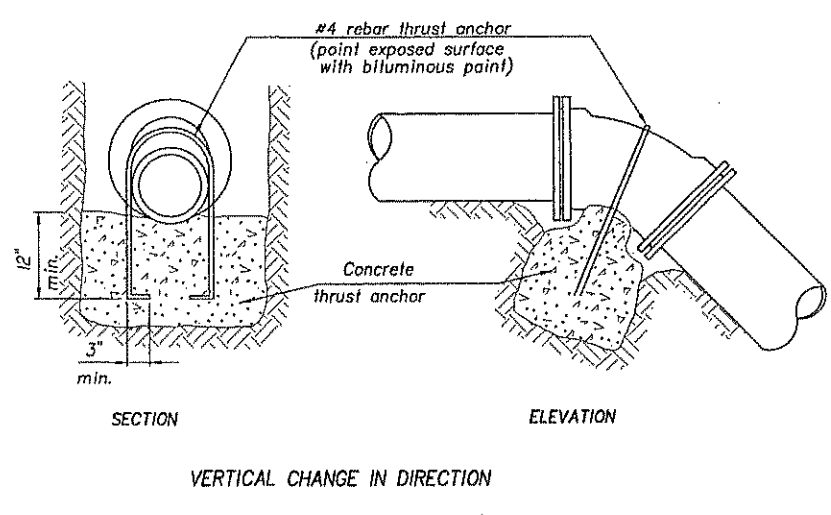
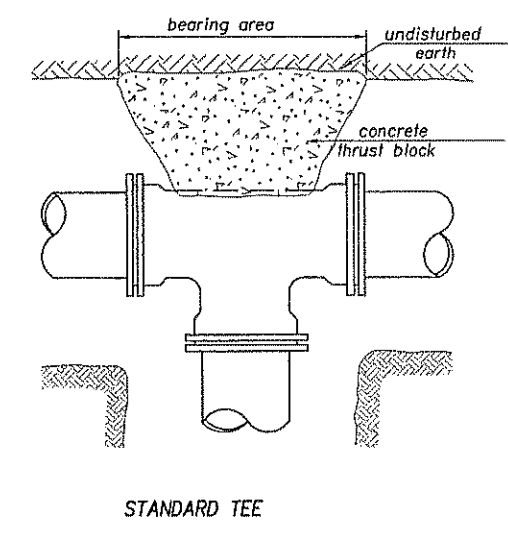
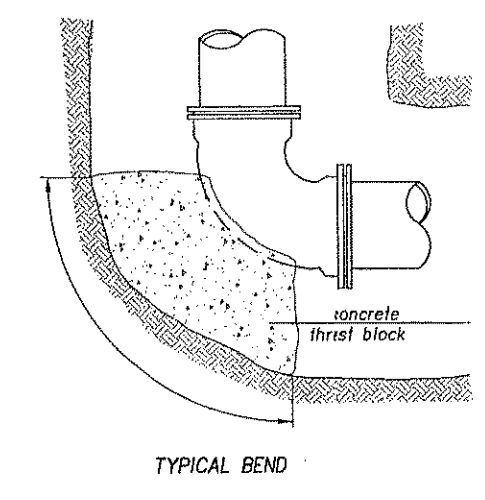


THRUST BLOCK BEARING AREA					
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE
4"	2 Sq.Ft.	1 Sq.Ft.	1 Sq.Ft.	1 Sq.Ft.	1 Sq.Ft.
6"	3 Sq.Ft.	2 Sq.Ft.	1 Sq.Ft.	1 Sq.Ft.	2 Sq.Ft.
8"	5 Sq.Ft.	3 Sq.Ft.	2 Sq.Ft.	1 Sq.Ft.	3 Sq.Ft.
10"	7 Sq.Ft.	4 Sq.Ft.	2 Sq.Ft.	2 Sq.Ft.	5 Sq.Ft.
12"	12 Sq.Ft.	7 Sq.Ft.	4 Sq.Ft.	3 Sq.Ft.	8 Sq.Ft.

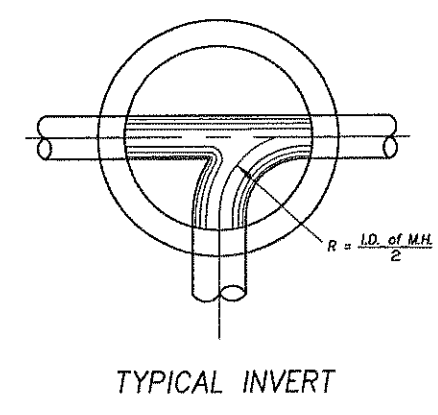
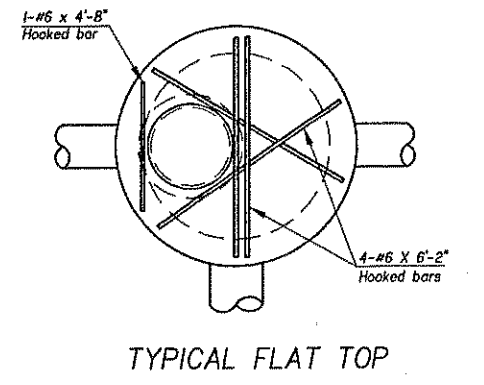
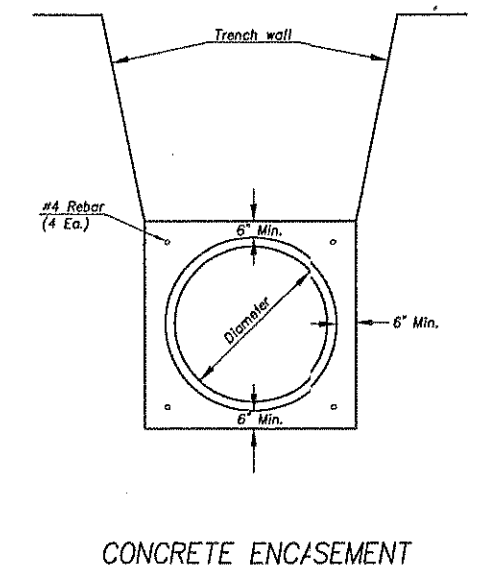
Blocking of tees is to be placed opposite the branch B area is based on branch size. All material, labor, and equipment required to construct concrete thrust blocks shall be considered subsidiary to other items of work.

VERTICAL CHANGE ANCHORS								
PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	CONCRETE NO.	BAR	CONCRETE NO.	BAR	CONCRETE NO.	BAR	CONCRETE NO.	BAR
6"	2.0	2	1.0	1	1.0	1	1.0	1
8"	3.5	4	2.0	2	1.0	1	1.0	1
10"	5.5	6	3.0	3	1.5	2	1.0	1
12"	8.0	8	4.5	5	2.5	3	2.0	2

The concrete and steel required for all fittings not listed shall be the same amount as required for the 22 1/2 bend. Concrete and steel are subsidiary to other items of work. The spacing for multiple rebar anchors shall be 2' c.c.

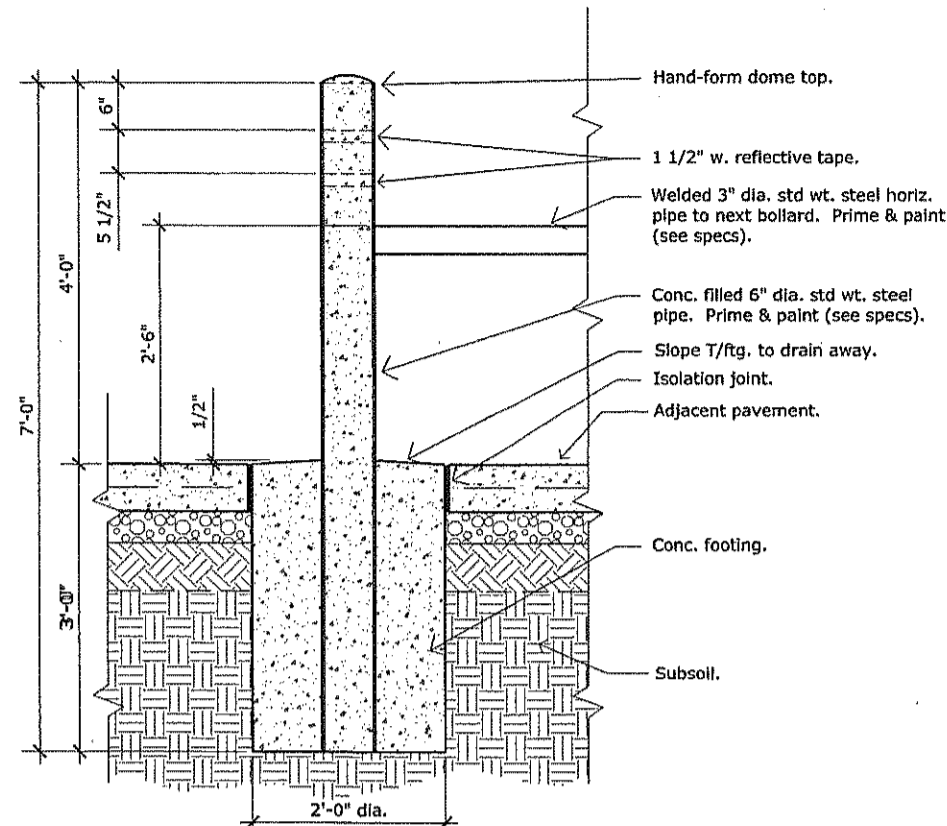


NOTE: Where existing sanitary sewer is to be encased in concrete, the Contractor shall excavate to the top of pipe and pour a 6" cap with a minimum width of 18". The cap shall have 2 #4 bars running the length of the encasement.

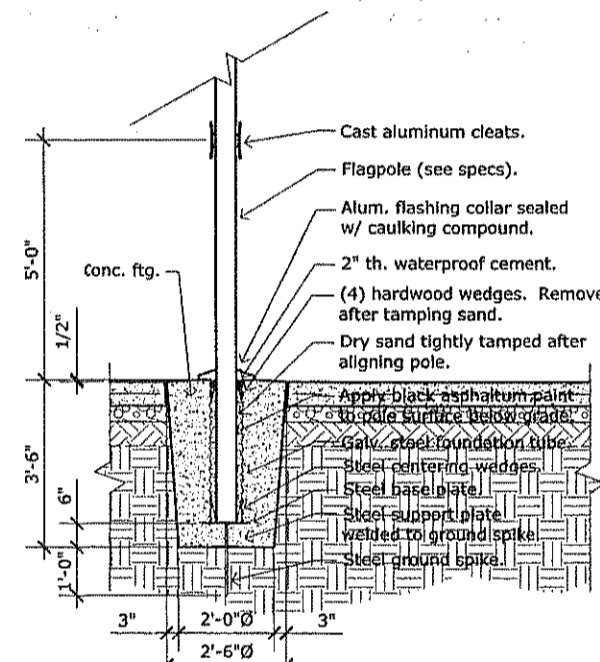


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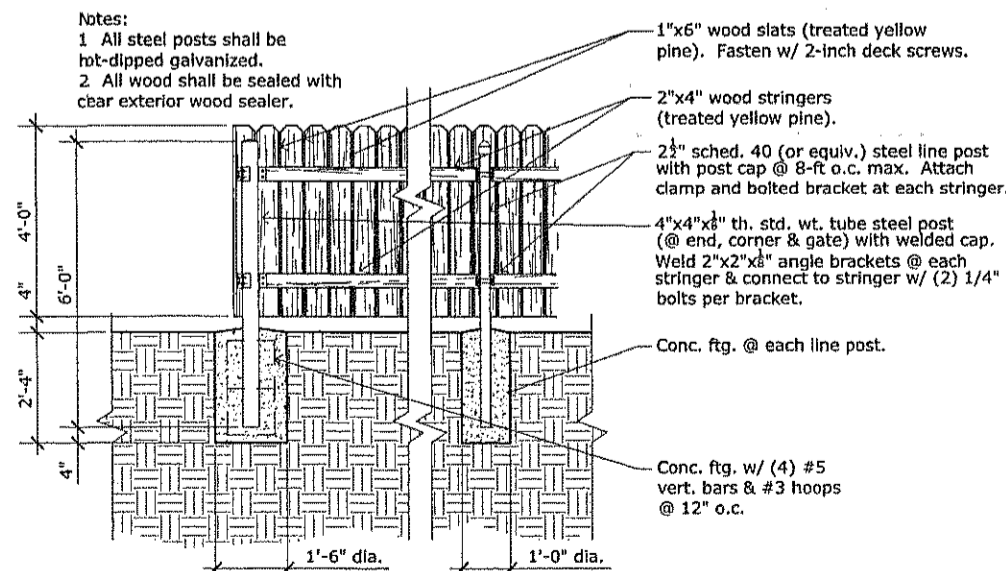




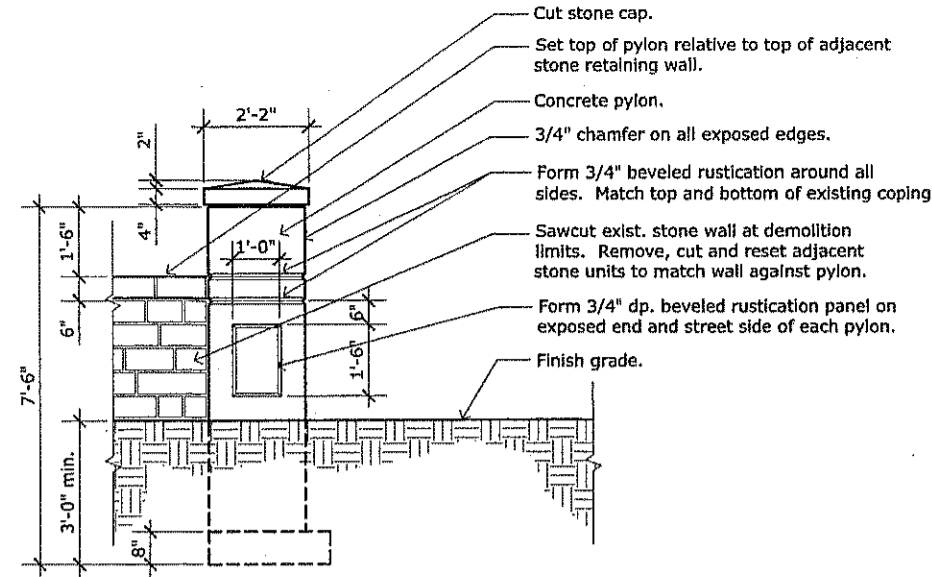
**A TYP. PIPE BOLLARD BARRIER**  
Scale: 1" = 1'-0"



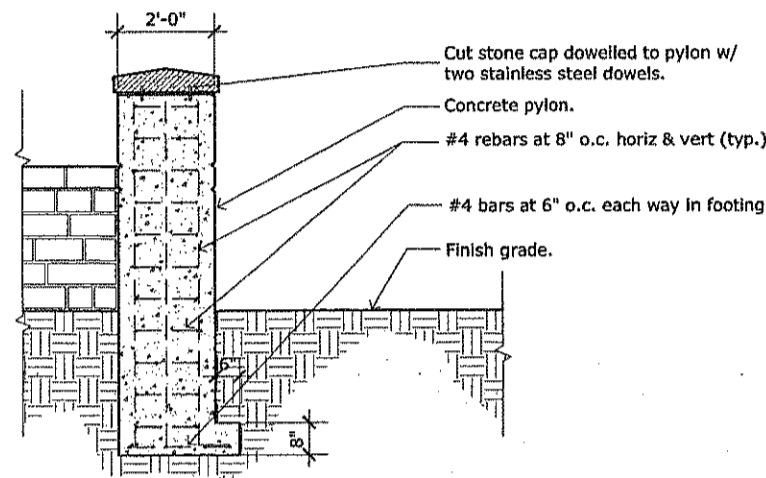
**B FLAGPOLE DETAIL**  
Scale: 1/2" = 1'-0"



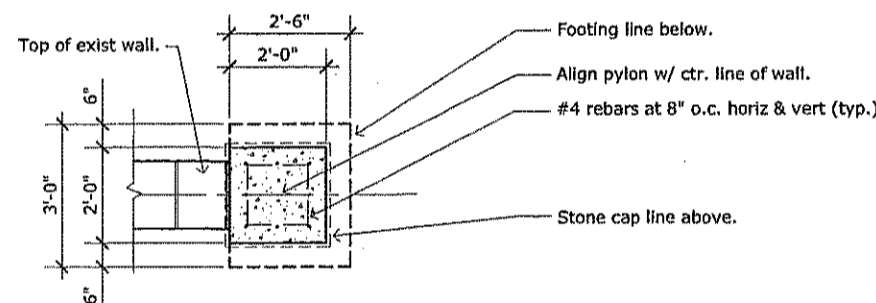
**C TYP. WOOD SCREEN FENCE (4-FT.)**  
Scale: 1/2" = 1'-0"



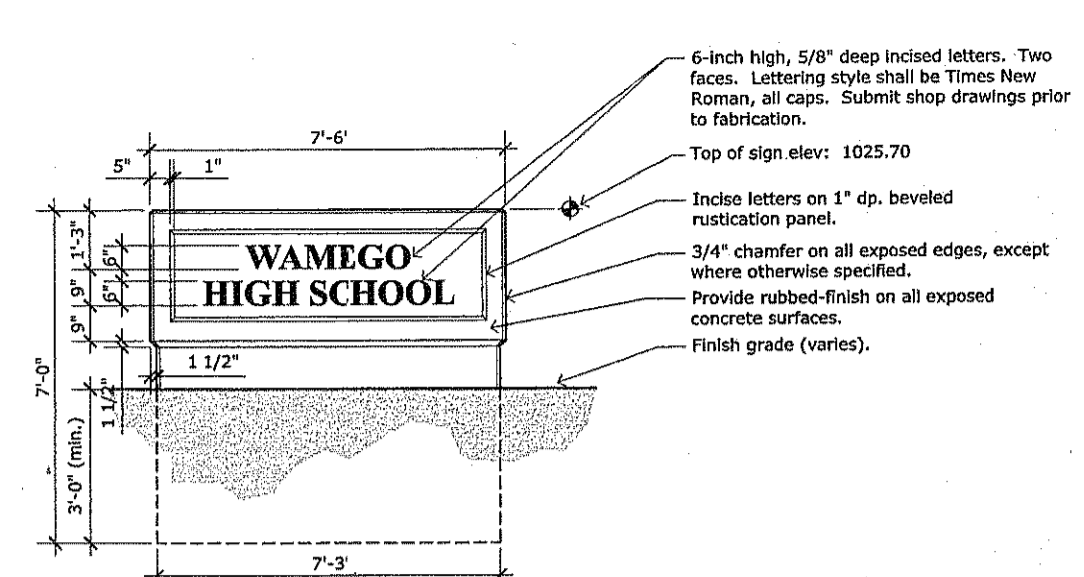
**D WALL PYLON (FRONT ELEV.)**  
Scale: 1/2" = 1'-0"



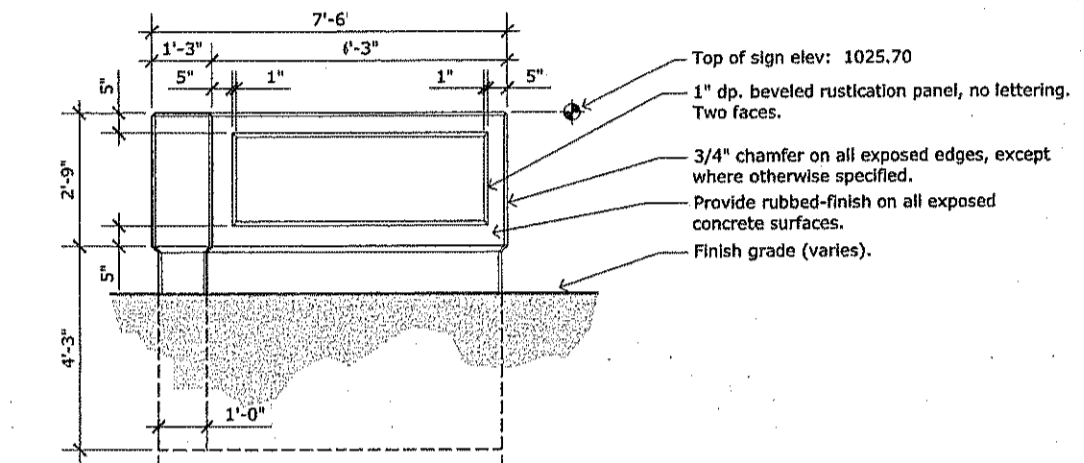
**E WALL PYLON (SECTION)**  
Scale: 1/2" = 1'-0"



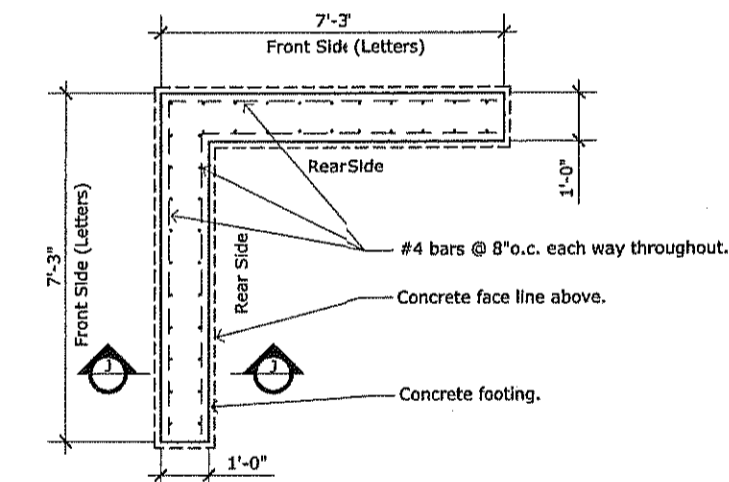
**F WALL PYLON (PLAN VIEW/SECTION)**  
Scale: 1/2" = 1'-0"



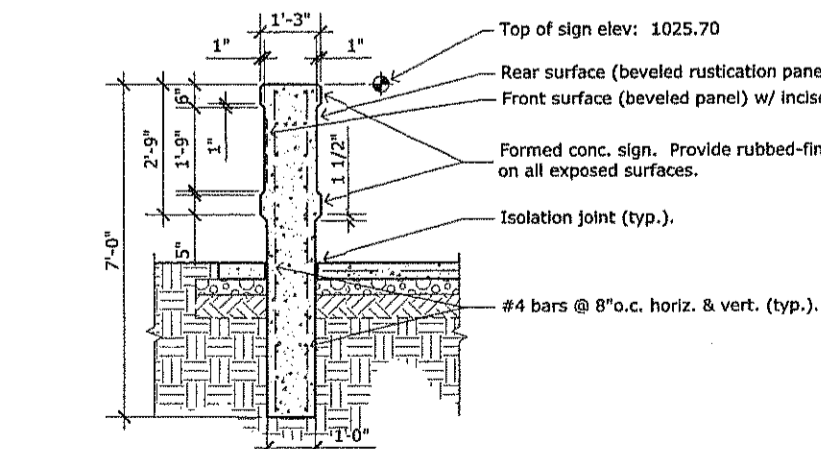
**G IDENTIFICATION SIGN (FRONT ELEV.)**  
Scale: 1/2" = 1'-0"



**H IDENTIFICATION SIGN (REAR ELEV.)**  
Scale: 1/2" = 1'-0"



**I IDENTIFICATION SIGN (FTG. PLAN)**  
Scale: 1/2" = 1'-0"



**J IDENTIFICATION SIGN (SECTION)**  
Scale: 1/2" = 1'-0"

PROJECT NO. 4425.03  
DATE OCT 2003  
DRAWN BY L.L.B.  
REVISION

The Ken Ebert Design Group  
Architects and Planning Consultants  
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115 Westport Drive  
Lawrence, Kansas 66044  
(785) 776-8800 (785) 776-9906 FAX

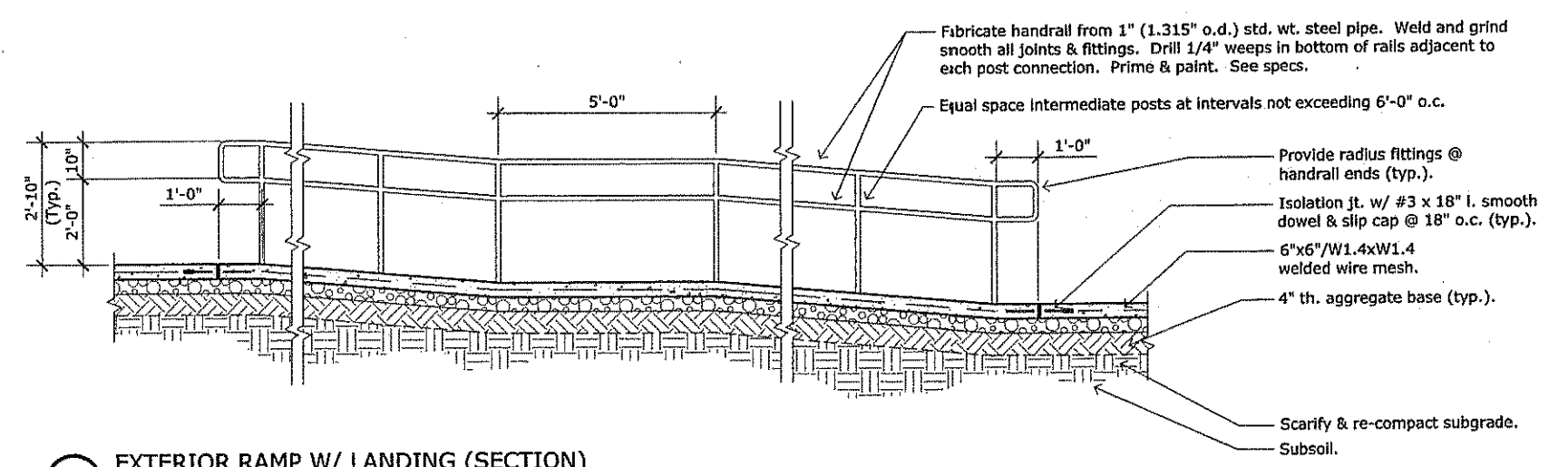
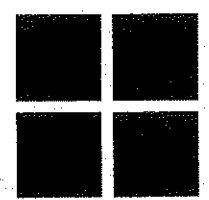


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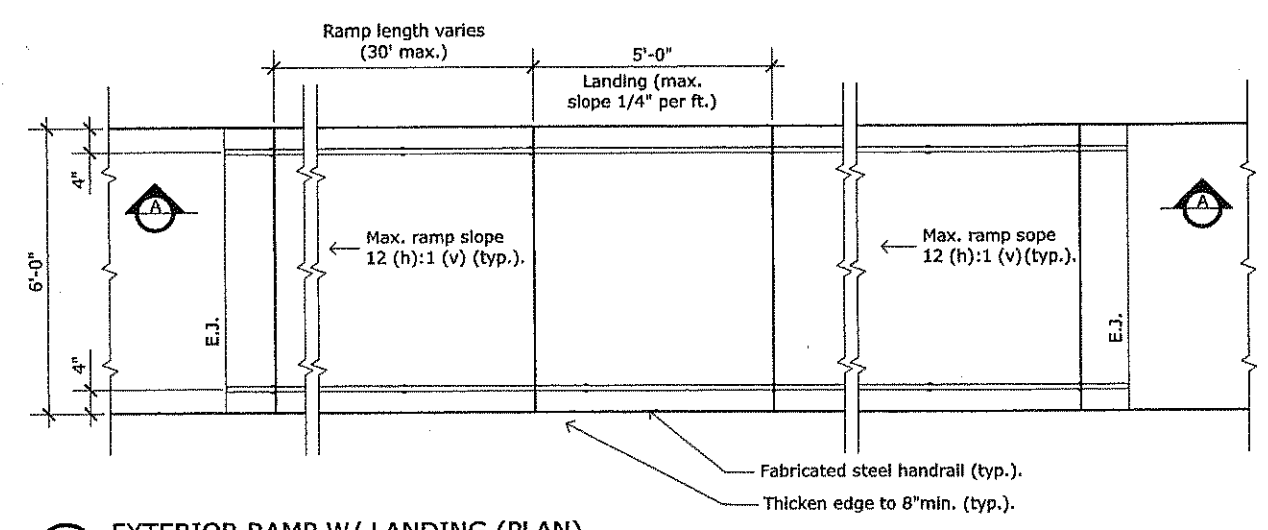
SHEET  
C7.6.1  
SITE IMPROVEMENT  
DETAILS



SITE IMPROVEMENT DETAILS



**A** EXTERIOR RAMP W/ LANDING (SECTION)  
 Scale: 1/2" = 1'-0"



**B** EXTERIOR RAMP W/ LANDING (PLAN)  
 Scale: 1/2" = 1'-0"

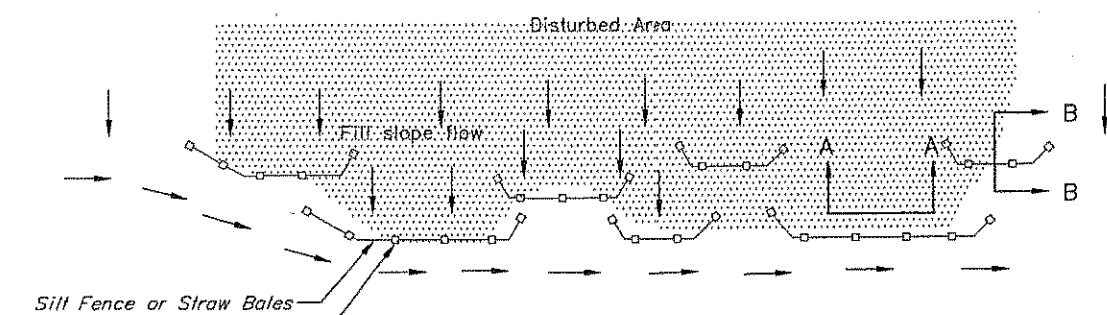




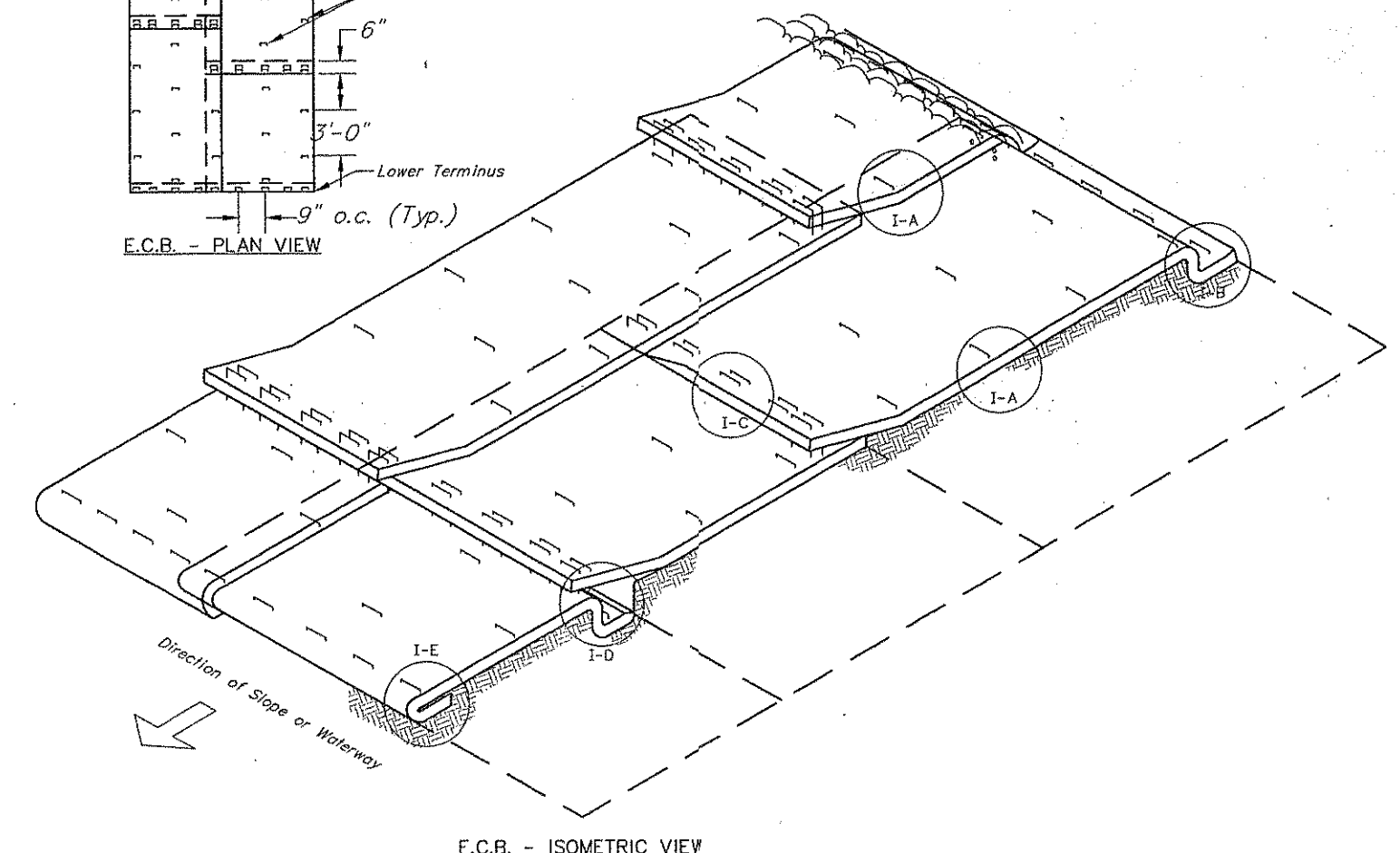
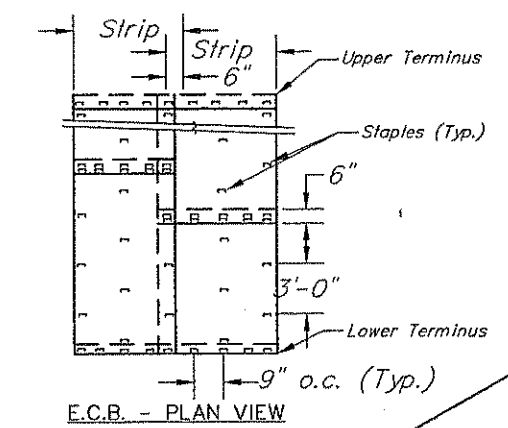
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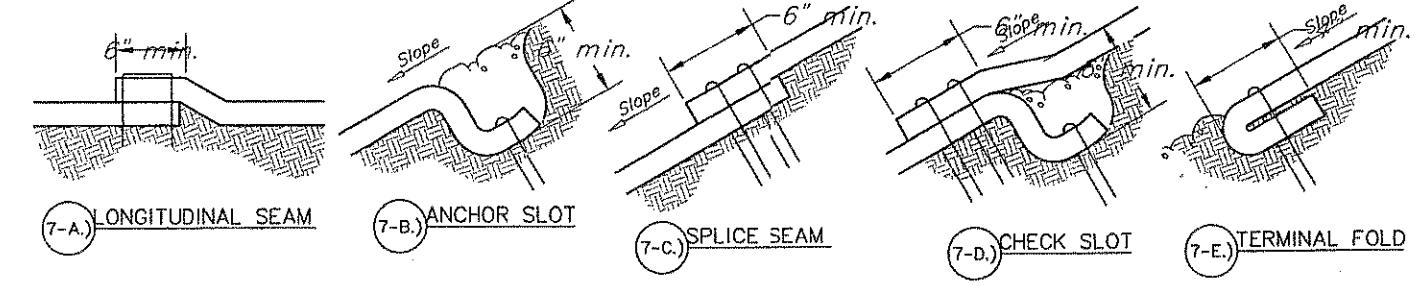
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6 TYPICAL SLOPE BARRIER PLAN

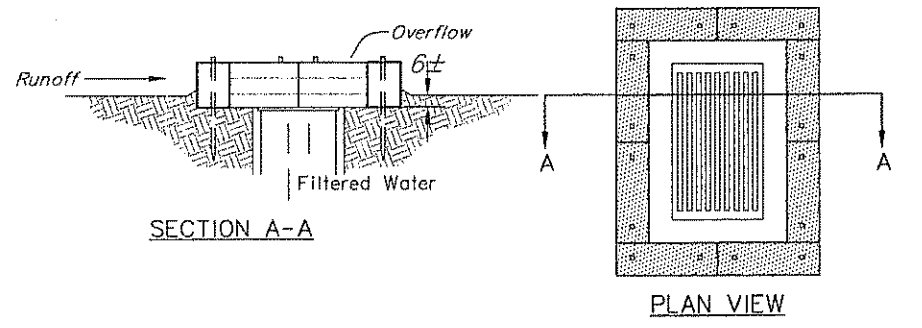
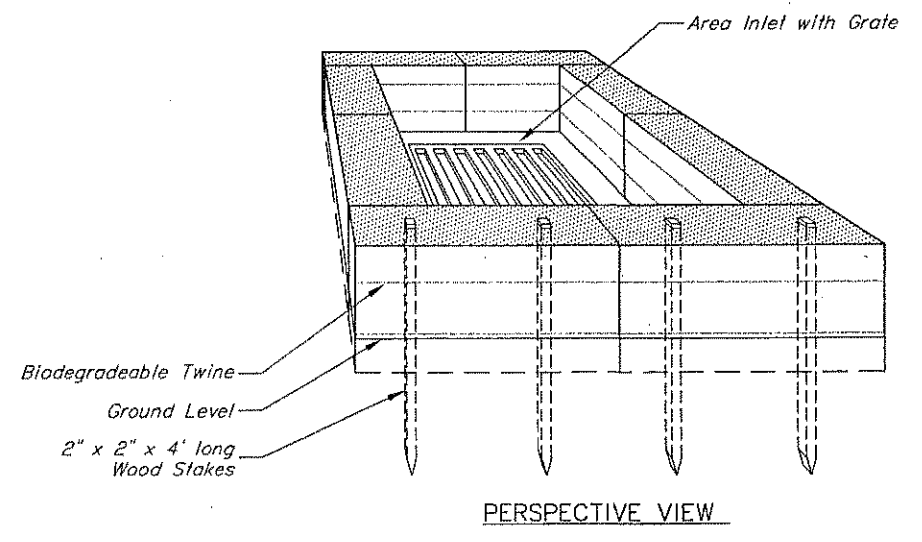


E.C.B. - ISOMETRIC VIEW



7 EROSION CONTROL BLANKET

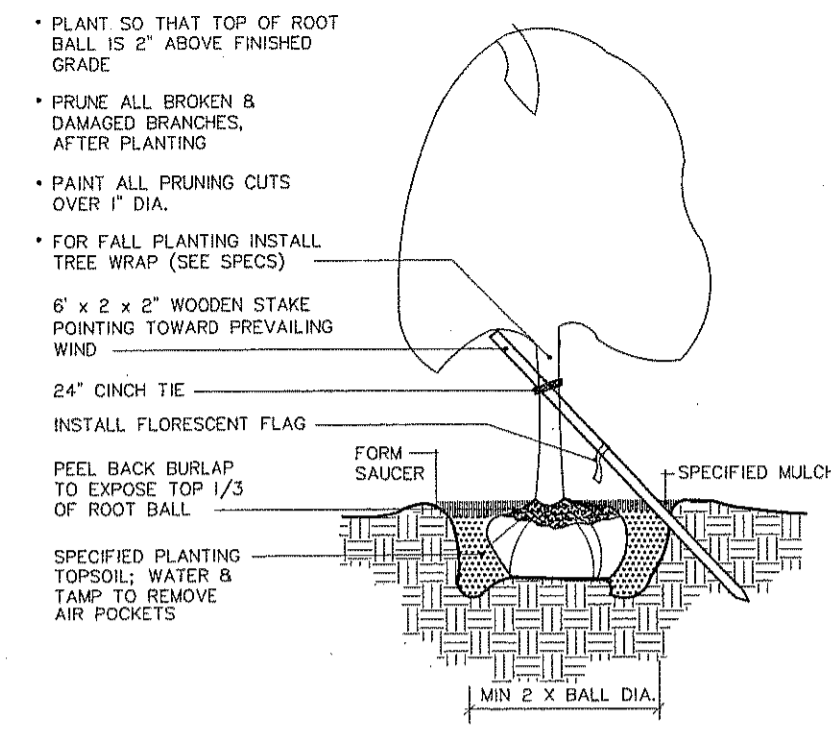
- ECB & TRM INSTALLATION NOTES**
- Erosion Control Blankets (ECBs) and Turf Reinforcement Mats (TRMs) shall be used where indicated on the Drawings or required, biodegradable ECBs shall be used for temporary erosion control in disturbed slopes and minor waterways. Permanent TRMs shall be used in larger waterways where stabilization with established turf alone is not feasible.
  - ECBs used for slope protection shall be laid in the direction of the slope. ECBs and TRMs used for waterway protection shall be laid in the direction of the waterway alignment with the first course being laid in the centerline of the waterway.
  - ECBs and TRMs shall be laid loosely, in close contact with the soil, and without stretching.
  - Install with longitudinal seams, splice seams, check slots and anchoring of edges and upper and lower terminus shall be in accordance with the details shown hereon unless otherwise recommended by the Manufacturer.
  - Secure ECBs and TRMs with staples or stakes as recommended by or supplied from the Manufacturer. Placement pattern and spacing of staples and stakes shall be as detailed hereon unless otherwise recommended by the Manufacturer. Staples and stakes placed along seams, folds and overlaps shall be secure anchorage of both layer of blanket or mat.
  - Stagger splice seams.
  - Check slots shall be placed at intervals not exceeding 30-feet on center.



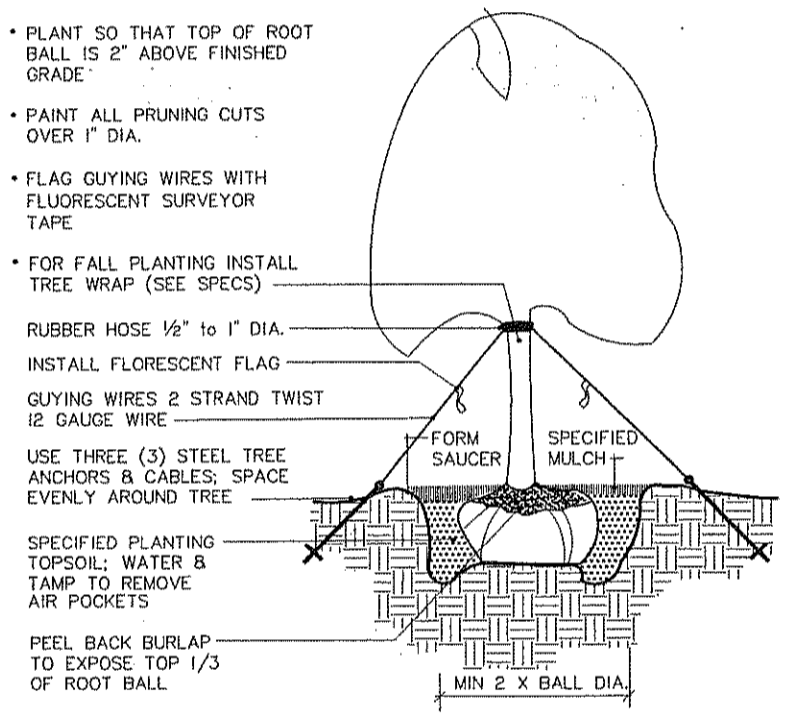
Straw bales are to be placed on edge, four inches in the soil. Bales are to be tightly abutting with no gaps, staked and backfilled around the entire perimeter.

5 STRAW BALE FILTER FOR AREA INLET

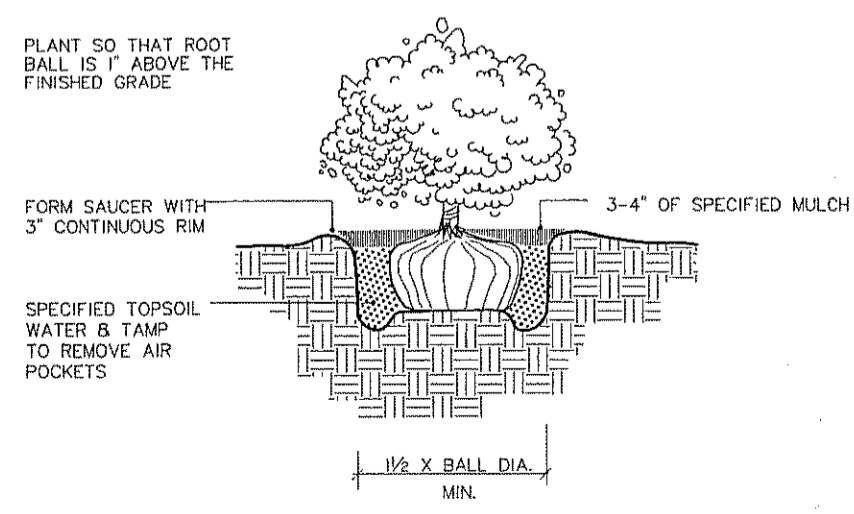




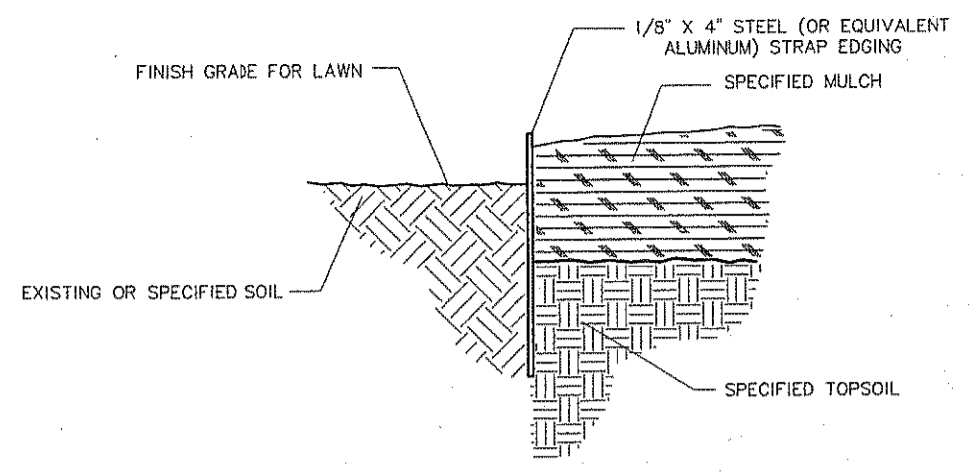
① TREE PLANTING  
 (SMALLER THAN 2" CAL.) NOT TO SCALE



② TREE PLANTING  
 (2" CAL. & LARGER) NOT TO SCALE

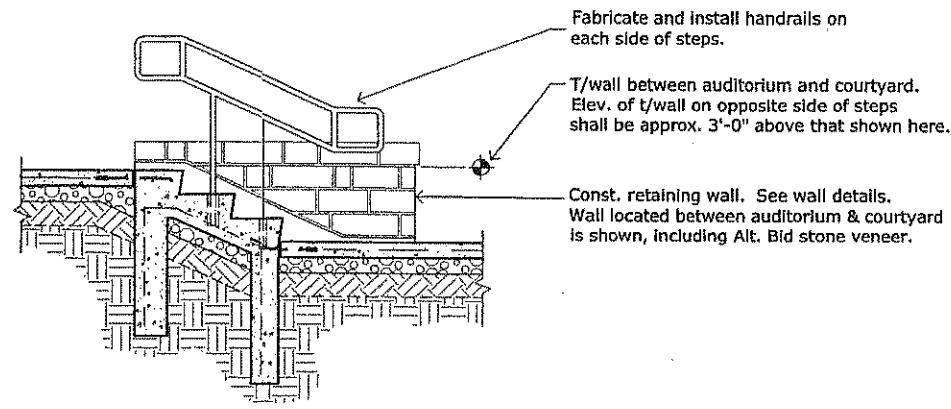


③ SHRUB PLANTING  
 NOT TO SCALE

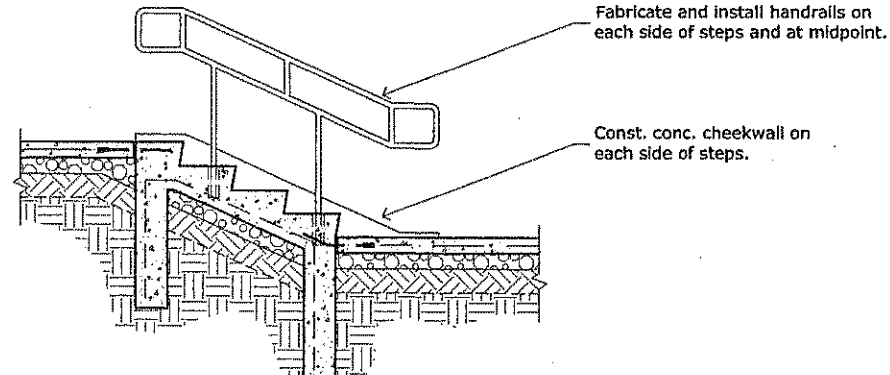


④ STEEL EDGING  
 NOT TO SCALE

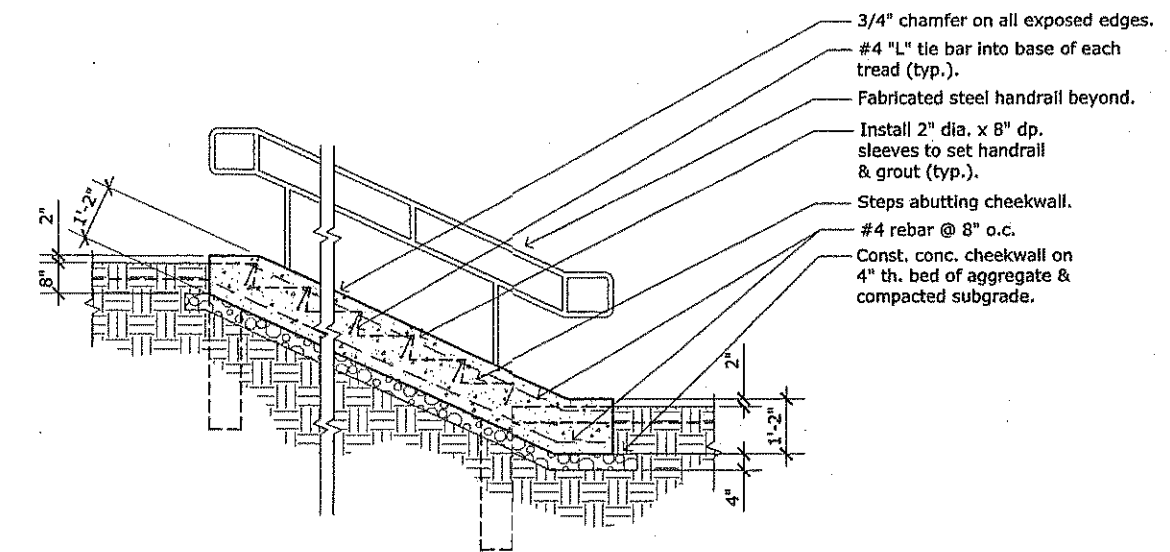




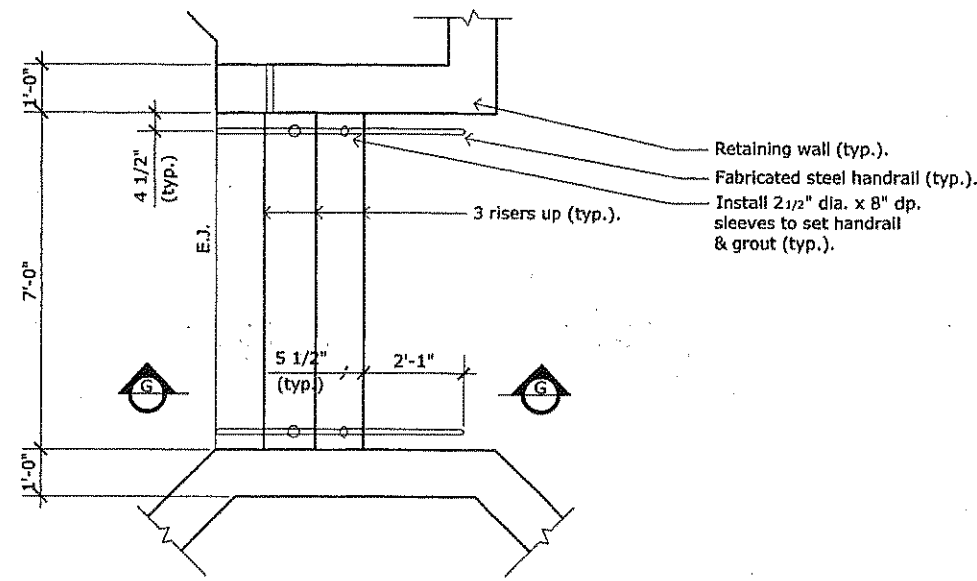
**A** TYPE 3R-W EXTERIOR STEPS (SECTION)  
Scale: 1/2" = 1'-0"



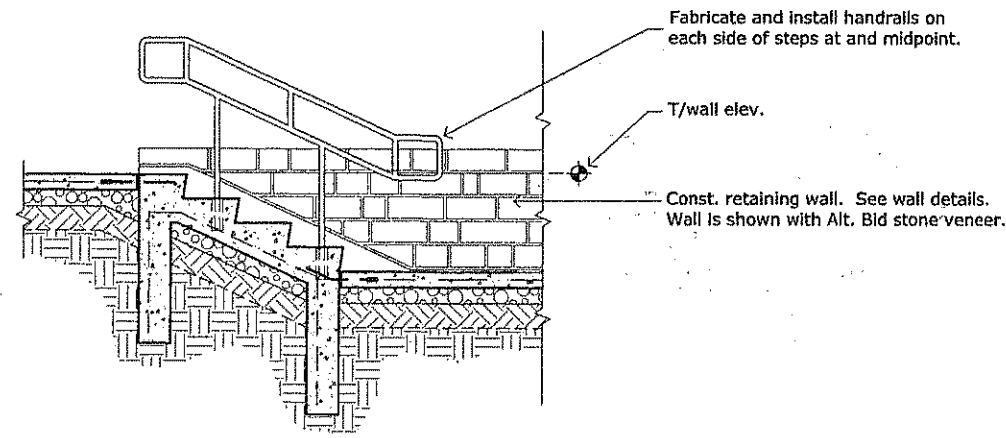
**C** TYPE 4R-C EXTERIOR STEPS (SECTION)  
Scale: 1/2" = 1'-0"



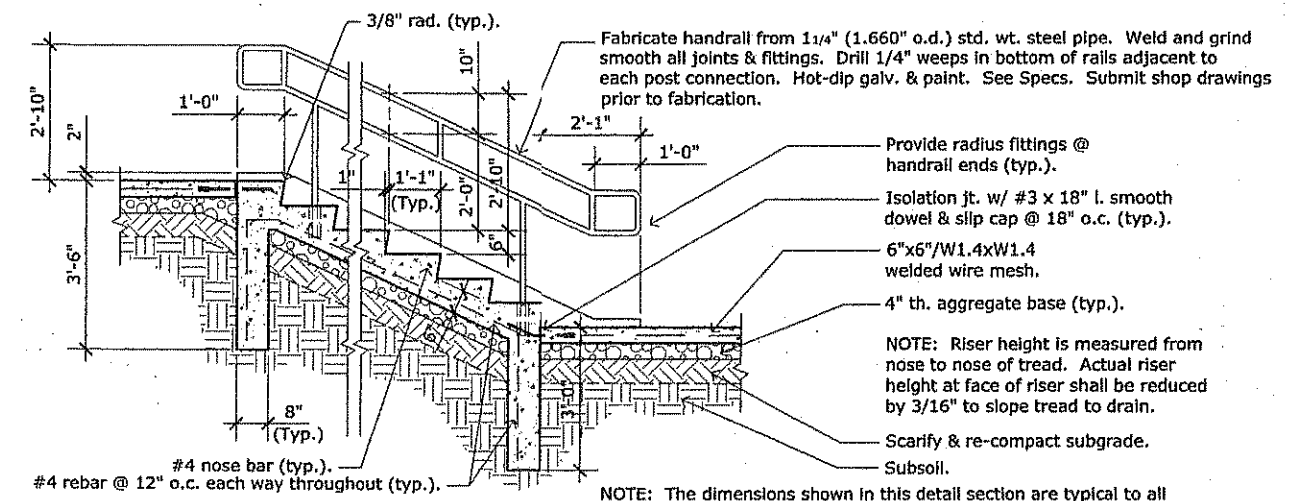
**F** CHEEKWALL @ STEPS (TYP. PROFILE)  
Scale: 1/2" = 1'-0"



**B** TYPE 3R-W EXTERIOR STEPS (PLAN)  
Scale: 1/2" = 1'-0"

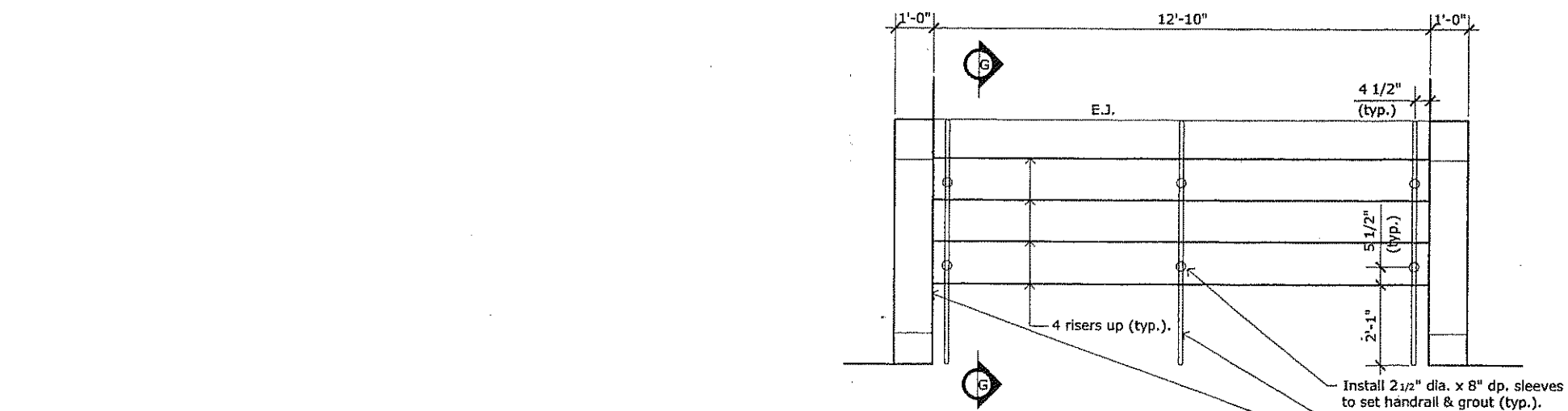


**D** TYPE 4R-W EXTERIOR STEPS (SECTION)  
Scale: 1/2" = 1'-0"

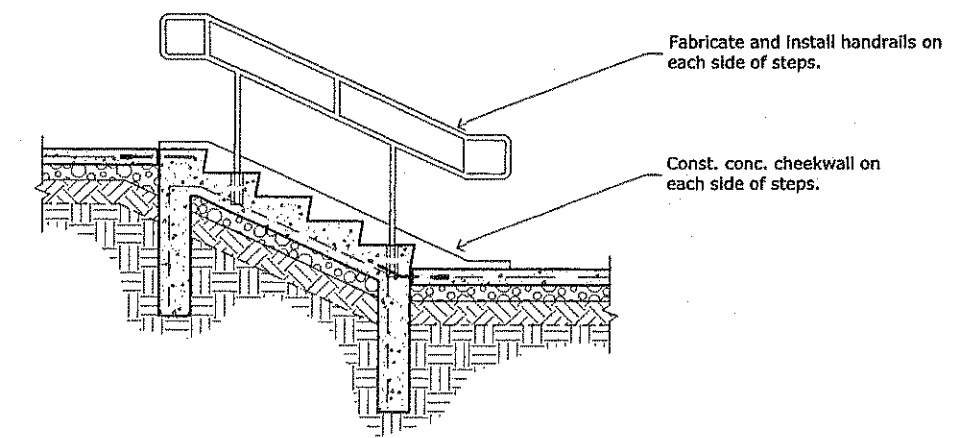


**G** EXTERIOR STEPS (TYP. SECTION)  
Scale: 1/2" = 1'-0"

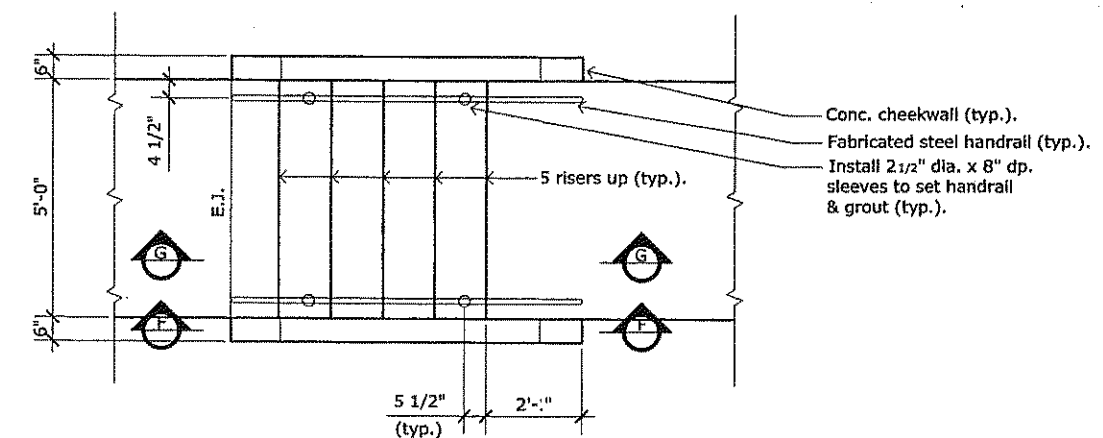
NOTE: The dimensions shown in this detail section are typical to all exterior steps. Variation exists in the requirements with respect to the number of risers/treads and the construction of cheekwalls vs. retaining walls. See details of specific steps noted.



**E** TYPE 4R-C & W EXTERIOR STEPS (PLAN)  
Scale: 1/2" = 1'-0"



**H** TYPE 5R-C EXTERIOR STEPS (SECTION)  
Scale: 1/2" = 1'-0"



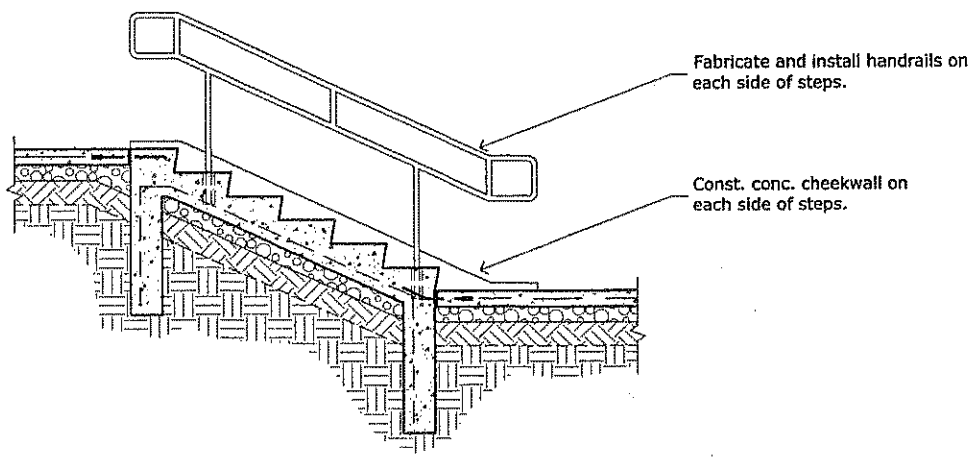
**I** TYPE 5R-C EXTERIOR STEPS (PLAN)  
Scale: 1/2" = 1'-0"



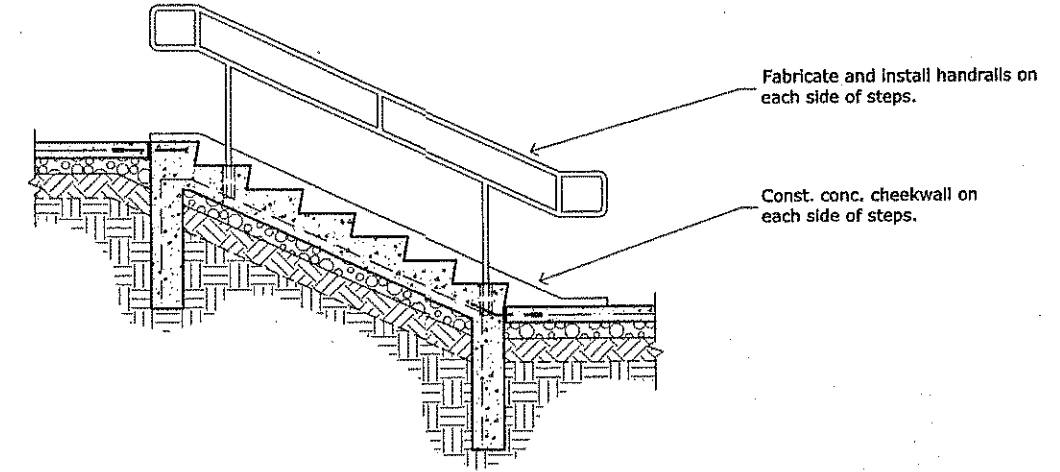
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Architects and Planning Consultants  
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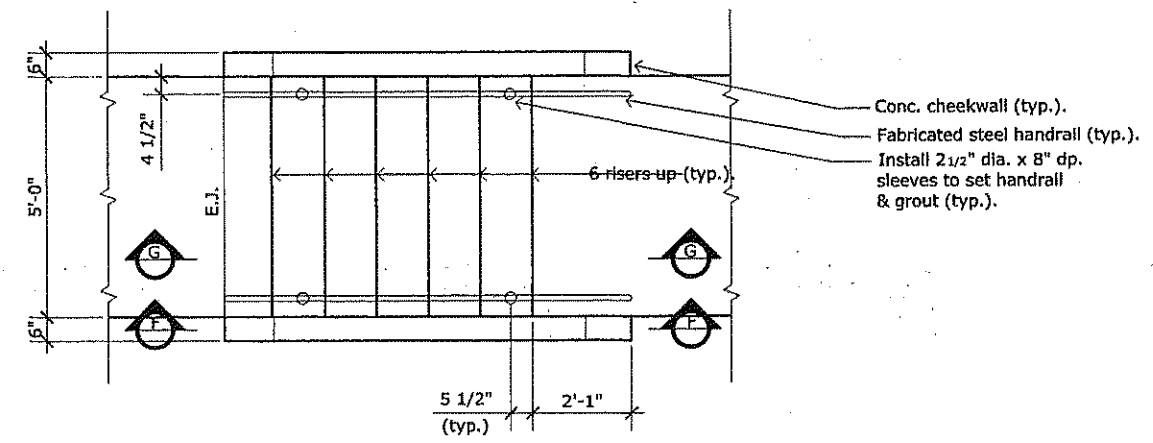
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801 North Lincoln Street  
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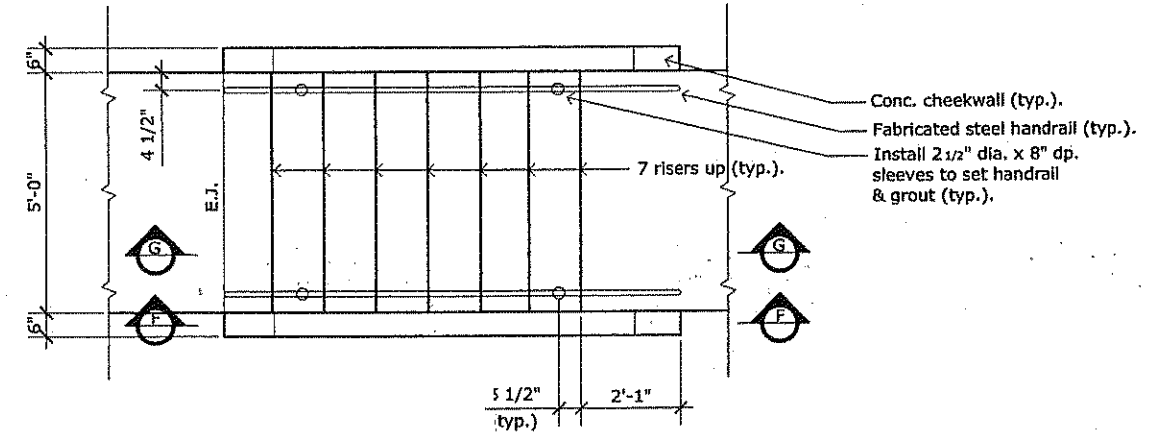
**J** TYPE 6R-C EXTERIOR STEPS (SECTION)  
 Scale: 1/2" = 1'-0"



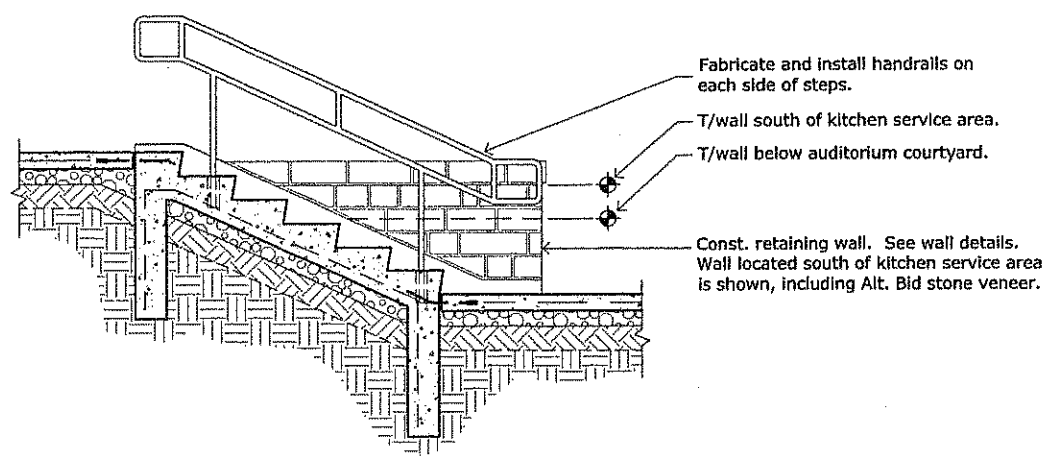
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 Scale: 1/2" = 1'-0"



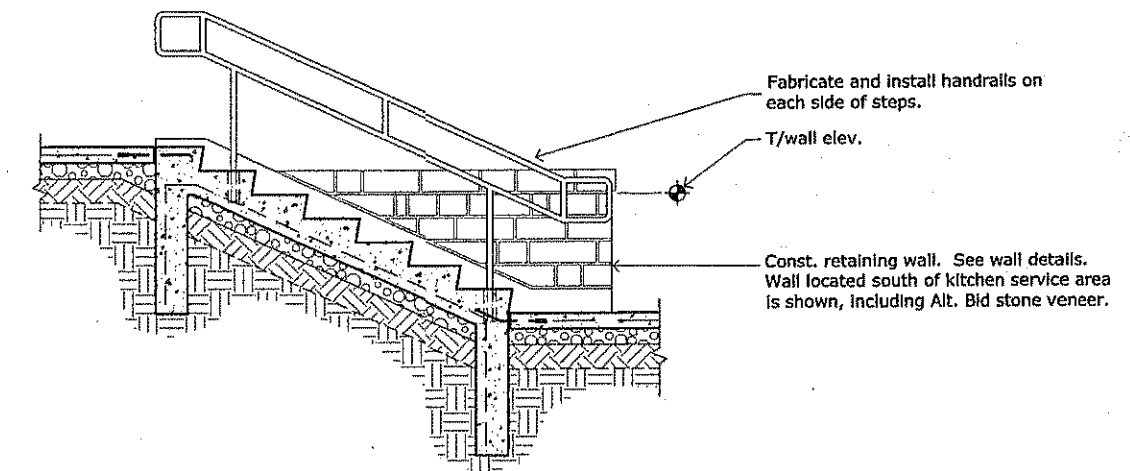
**K** TYPE 6R-C EXTERIOR STEPS (PLAN)  
 Scale: 1/2" = 1'-0"



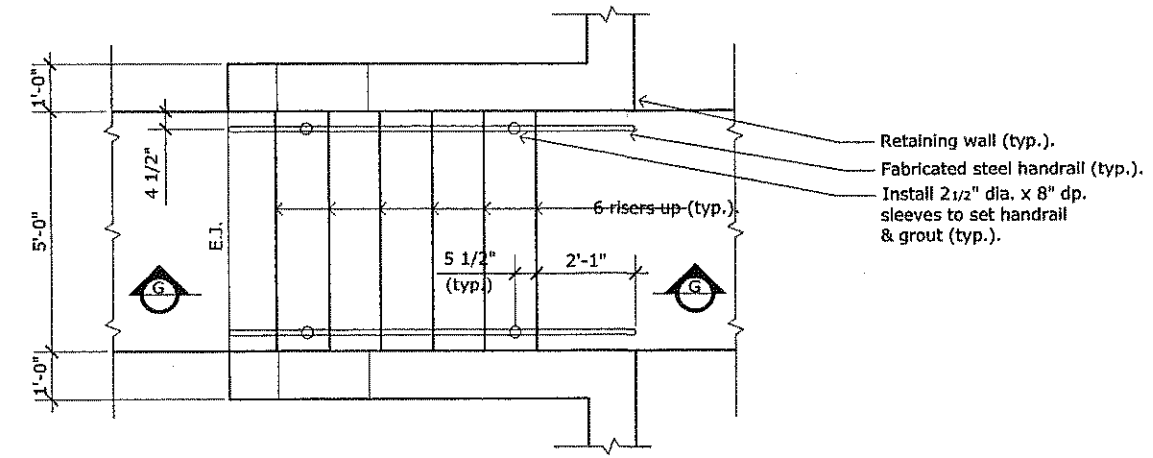
**O** TYPE 7R-C EXTERIOR STEPS (PLAN)  
 Scale: 1/2" = 1'-0"



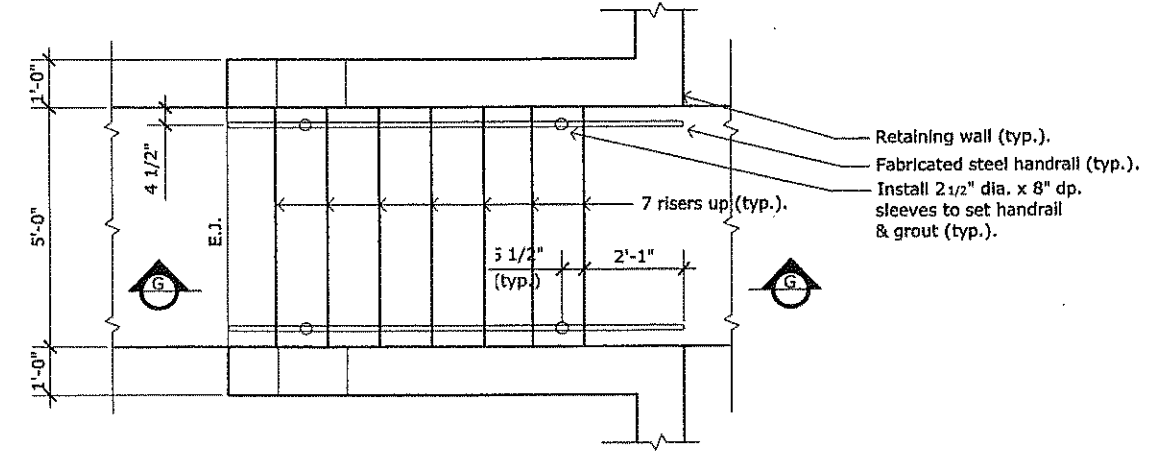
**L** TYPE 6R-W EXTERIOR STEPS (SECTION)  
 Scale: 1/2" = 1'-0"



**P** TYPE 7R-W EXTERIOR STEPS (SECTION)  
 Scale: 1/2" = 1'-0"

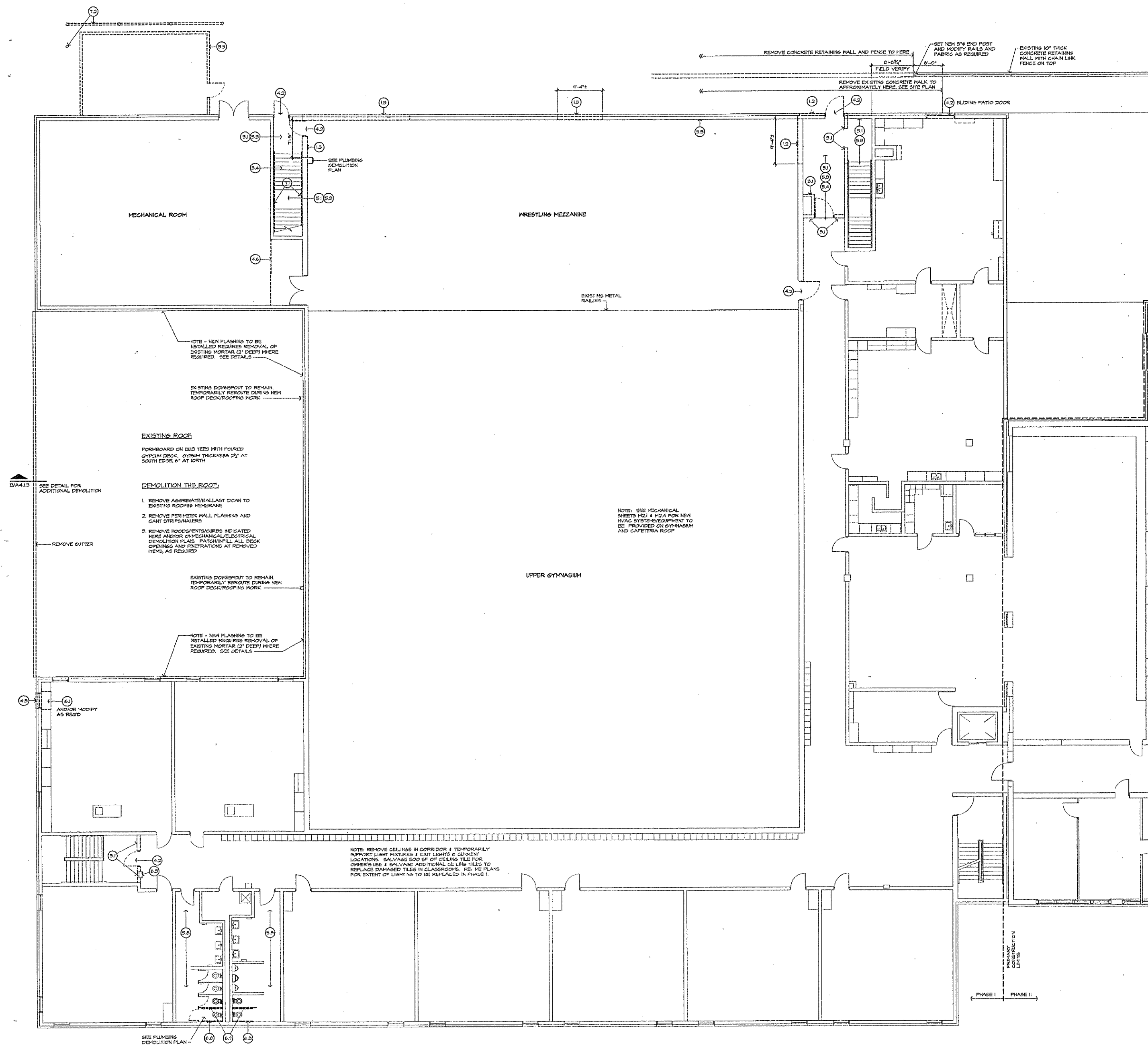


**M** TYPE 6R-W EXTERIOR STEPS (PLAN)  
 Scale: 1/2" = 1'-0"



**Q** TYPE 7R-W EXTERIOR STEPS (PLAN)  
 Scale: 1/2" = 1'-0"





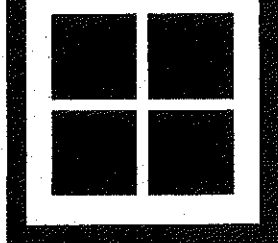
### General Notes

- A. VERIFY EXTENT OF ALL DEMOLITION PRIOR TO START OF WORK. EXISTING CONSTRUCTION, FINISHES, EQUIPMENT, REMOVED WHERE NOT REQUIRED SHALL BE REPLACED/RESTORED TO ORIGINAL EXTENT AT NO ADDITIONAL COST TO OWNER.
- B. VERIFY EXTENT OF STRUCTURAL LOADS, LOAD-BEARING WALLS, BEAMS AND COLUMNS, ETC. PRIOR TO DEMOLITION. ADEQUATELY SHORE AND BRACE ADJACENT CONSTRUCTION TO PREVENT DAMAGE, COLLAPSE, ETC. SEE STRUCTURAL DRAWINGS FOR NEW BEAMS, COLUMNS, LINTELS, ETC.
- C. REFERENCED NOTES IN ROOMS OR AREAS MAY NOT "FIT" TO EACH AND EVERY SUCH ITEM OR EXTENT. ASSUME ALL SUCH LIKE ITEMS ARE TO BE REMOVED AS PER NOTE.
- D. ALL ITEMS OF SALVAGE VALUE SHALL FIRST BE OFFERED TO THE OWNER, OTHERWISE, CONTRACTOR TO DISPOSE OF REMOVED/DENISHED CONSTRUCTION OFF SITE.
- E. EXTENT OF CUTTING & PATCHING FOR UTILITY INSTALLATION, ETC. REQUIRED IS NOT SHOWN. REFER TO NEW PLANS FOR EXTENT OF NEW WORK REQUIRED.

### Referenced Demolition Notes

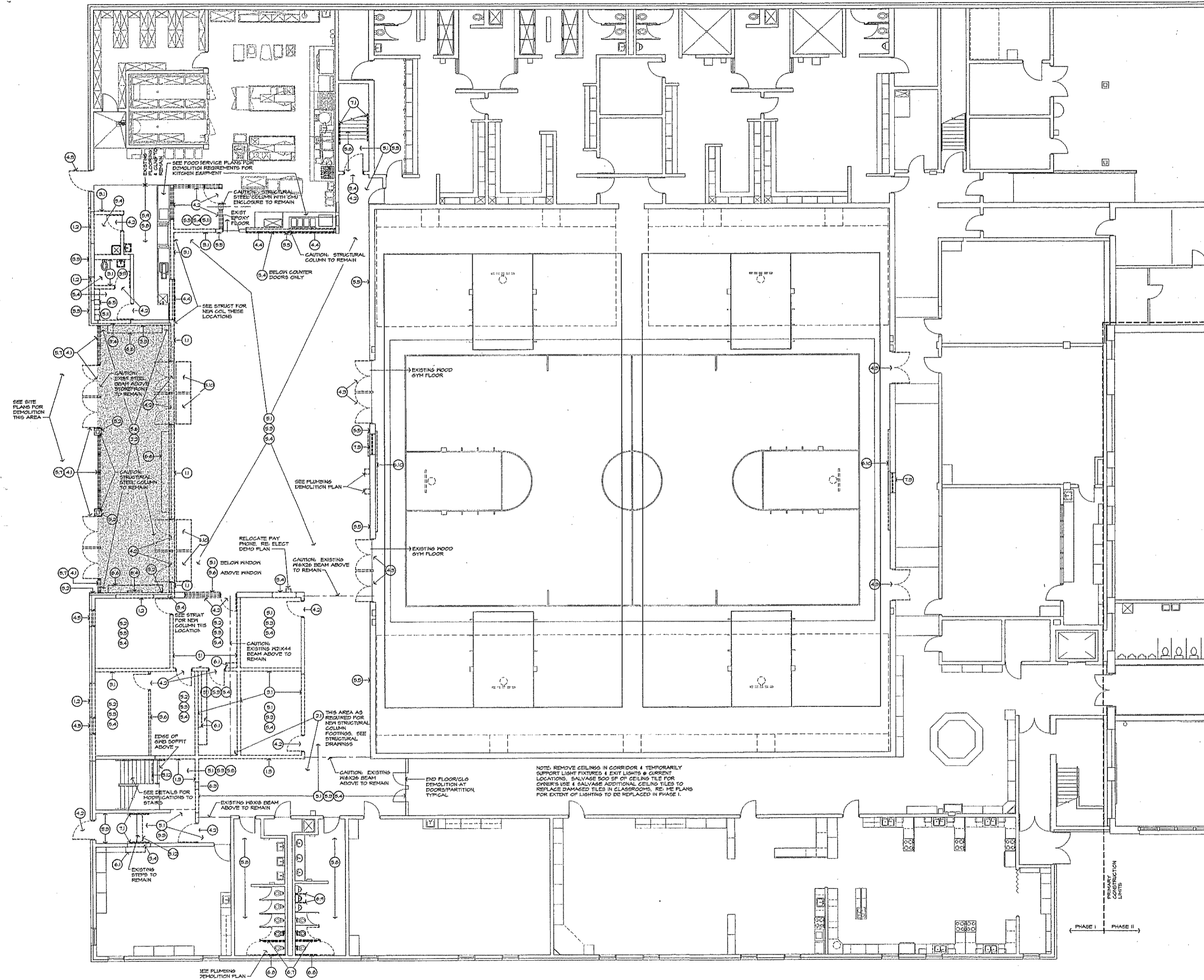
- Symbol**
- STRUCTURAL**
- NOTE: THE FOLLOWING ITEMS AND CONSTRUCTION ARE KNOWN TO BE LOAD BEARING. TEMPORARILY BRACE AND SHORE CONSTRUCTION TO REMAIN UNTIL NEW PERMANENT STRUCTURAL SUPPORT IS INSTALLED. SEE STRUCTURAL DRAWINGS.
- 11 REMOVE CONCRETE MASONRY/BRICK VENEER WALL TO ROOF STRUCTURE.
  - 12 REMOVE CONCRETE MASONRY (AND BRICK VENEER WHERE OCCURS) WALL TO PROVIDE NEW MASONRY OPENING. SIZE AS REQUIRED. WIDTH OF NEW OPENING SHALL BE AT LEAST 16" WIDER THAN FINAL OPENING REQUIRED, AND OF SUFFICIENT HEIGHT TO INSTALL NEW LINTEL/STRUCTURAL SUPPORT. WHENEVER POSSIBLE, REMOVE MASONRY AT EXISTING JOINTS. SEE STRUCTURAL DRAWINGS.
  - 13 REMOVE CONCRETE MASONRY PARTITION TO EXTENT INDICATED ON STRUCTURAL DRAWINGS.
- FLOORS AND ROOF**
- 21 REMOVE CONCRETE SLAB ON GRADE AS REQUIRED TO INSTALL NEW WORK. FOOTINGS AND FOUNDATIONS, MECHANICAL AND ELECTRICAL, ETC.
  - 22 REMOVE CONCRETE FLOOR SLAB ON GRADE.
  - 23 REMOVE ROOF BALLAST.
- WALLS AND PARTITIONS**
- NOTE: THE FOLLOWING ITEMS AND CONSTRUCTION ARE ASSUMED TO BE NON-STRUCTURAL/LOAD BEARING EXCEPT FOR THEIR OWN HEIGHT.
- 31 REMOVE CONCRETE MASONRY PARTITION.
  - 32 REMOVE BRICK VENEER TO 4" MINIMUM ABOVE NEW FINISHED CEILING. ADD SHELF ANGLE/LINTEL SUPPORT FOR BRICK VENEER ABOVE TO REMAIN. SEE STRUCTURAL.
  - 33 REMOVE BRICK VENEER ENTIRE HEIGHT OF WALL.
  - 34 REMOVE CONCRETE MASONRY WALL TO PROVIDE NEW MASONRY OPENING. SIZE AS REQUIRED. WIDTH OF OPENING SHALL BE AT LEAST 16" WIDER THAN FINAL OPENING REQUIRED, AND OF SUFFICIENT HEIGHT TO INSTALL NEW LINTEL/HEADER. WHENEVER POSSIBLE, REMOVE MASONRY AT EXISTING JOINTS. SEE STRUCTURAL DRAWINGS.
  - 35 REMOVE MECHANICAL EQUIPMENT ENCLOSURE/SCREEN.
  - 36 REMOVE 5/8" AND 3/4" PARTITION.
- DOORS AND WINDOWS**
- 41 REMOVE ALUMINUM STOREFRONT AND ENTRANCE SYSTEM. SALVAGE DOORS AND HARDWARE FOR REINSTALLATION WHERE SCHEDULED. (AT CONTRACTOR'S OPTION, DOOR FRAMES MAY BE SALVAGED FOR REUSE OR PROVIDED NEW FRAMES).
  - 42 REMOVE HM FRAME AND DOOR (AND SIDLIGHTS/TRANSOM WHERE OCCURS), AND HARDWARE.
  - 43 REMOVE DOOR ONLY, RETAIN FRAME FOR INSTALLATION OF NEW DOOR.
  - 44 REMOVE COILING COUNTER DOOR, HARDWARE AND GUIDES.
  - 45 REMOVE AND SALVAGE WINDOW.
  - 46 REMOVE CHAIN LINK FENCE.
- FINISHES AND TRIM**
- 51 REMOVE VINYL ASBESTOS FLOOR TILE (BY OWNER).
  - 52 REMOVE CARPET.
  - 53 REMOVE VINYL WALL BASE.
  - 54 REMOVE SUSPENDED ACOUSTIC PANEL CEILING (SALVAGE UNDAMAGED ACOUSTIC PANELS IN QUANTITY REQUESTED BY OWNER).
  - 55 REMOVE HOOD PICTURE RAIL.
  - 56 REMOVE HARDBOARD CEILING PANELS AND FURNING CHANNELS/SUPPORT FRAMES.
  - 57 REMOVE METAL FASCIA PANELS AND SUPPORT FRAMING. SEE DETAILS FOR EXTENT AND OTHER DEMOLITION REQUIRED AT ROOF EDGE.
  - 58 REMOVE GYPS SOFFIT/CEILING AND SUPPORT FRAMING.
  - 59 REMOVE SEAMLESS EPOXY FLOORING.
  - 60 REMOVE RECESSED WALK-OFF MAT.
  - 61 REMOVE ASBESTOS SHEET VINYL FLOORING (BY OWNER).
  - 62 REMOVE EXISTING STAIR NOSING.
- EQUIPMENT, CASEWORK, FIXTURES**
- NOTE: SALVAGE ALL ITEMS REQUESTED BY OWNER.
- 63 REMOVE FOOD CABINETRY/CASEWORK.
  - 64 REMOVE DISPLAY CASE.
  - 65 REMOVE FIRE EXTINGUISHER CABINET.
  - 66 REMOVE CHALK OR TACK BOARD, PLACER, ETC.
  - 67 REMOVE LOCKERS.
  - 68 REMOVE FOOD BENCH.
  - 69 MODIFY TOILET PARTITIONS FOR HANDICAP ACCESS.
  - 70 REMOVE GRAB BARS.
  - 71 REMOVE URINAL SCREENS.
  - 72 REMOVE AND SALVAGE WALL MOUNTED SAFETY PADS FOR RELOCATION TO GYMNASIUM [237]
- MISCELLANEOUS**
- 73 REMOVE HANDRAIL.
  - 74 REMOVE PIPE BOLLARDS/GUARDRAIL.
  - 75 REMOVE 48"x32" AIR TRANSFER GRILLES, DAMPERS, ETC.

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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**A SECOND FLOOR DEMOLITION PLAN**  
 1/8" = 1'-0"



**General Notes**

- A. VERIFY EXTENT OF ALL DEMOLITION PRIOR TO START OF WORK. EXISTING CONSTRUCTION, FINISHES, EQUIPMENT, AND/OR REMOVED ITEMS NOT REQUIRED SHALL BE REPLACED/RESTORED TO ORIGINAL EXTENT AT NO ADDITIONAL COST TO OWNER.
- B. VERIFY EXTENT OF STRUCTURAL LOADS, LOAD-BEARING WALLS, BEAMS AND COLLARS, ETC. PRIOR TO DEMOLITION. ADEQUATELY SHORE AND BRACE ADJACENT CONSTRUCTION TO PREVENT DAMAGE, COLLAPSE, ETC. SEE STRUCTURAL DRAWINGS FOR NEW BEAMS, COLLARS, LINTELS, ETC.
- C. REFERENCED NOTES IN ROOMS OR AREAS MAY NOT "POINT" TO EACH AND EVERY SUCH ITEM OR EXTENT. ASSUME ALL SUCH LIKE ITEMS ARE TO BE REMOVED AS PER NOTE.
- D. ALL ITEMS OF SALVAGE VALUE SHALL FIRST BE OFFERED TO THE OWNER; OTHERWISE, CONTRACTOR TO DISPOSE OF REMOVED/DEMOLISHED CONSTRUCTION OFF SITE.
- E. EXTENT OF CUTTING & PATCHING FOR UTILITY INSTALLATION, ETC. REQUIRED IS NOT SHOWN. REFER TO MEP PLANS FOR EXTENT OF NEW WORK REQUIRED.

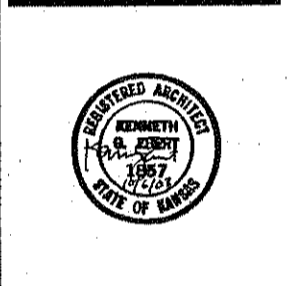
**Referenced Demolition Notes**

**Symbol**

- STRUCTURAL**
- (1) REMOVE CONCRETE MASONRY/BRICK VENEER WALL TO ROOF STRUCTURE.
  - (2) REMOVE CONCRETE MASONRY (AND BRICK VENEER WHERE OCCURS) WALL TO PROVIDE NEW MASONRY OPENING, SIZE AS REQUIRED. WIDTH OF NEW OPENING SHOULD BE AT LEAST 24" WIDER THAN FINAL OPENING REQUIRED, AND OF SUFFICIENT HEIGHT TO INSTALL NEW LINTEL/STRUCTURAL SUPPORT. WHENEVER POSSIBLE, REMOVE MASONRY AT EXISTING JOINTS. SEE STRUCTURAL DRAWINGS.
  - (3) REMOVE CONCRETE MASONRY PARTITION TO EXTENT INDICATED ON STRUCTURAL DRAWINGS.
- FLOORS AND ROOF**
- (21) REMOVE CONCRETE SLAB ON GRADE AS REQUIRED TO INSTALL NEW WORK. FOOTINGS AND FOUNDATIONS, MECHANICAL AND ELECTRICAL, ETC.
  - (22) REMOVE CONCRETE FLOOR SLAB ON GRADE.
  - (23) REMOVE ROOF BALLAST.
- HALLS AND PARTITIONS**
- NOTE: THE FOLLOWING ITEMS AND CONSTRUCTION ARE ASSUMED TO BE NON-STRUCTURAL/NON-LOAD BEARING EXCEPT FOR THEIR OWN HEIGHT.
- (31) REMOVE CONCRETE MASONRY PARTITION.
  - (32) REMOVE BRICK VENEER TO 4" MINIMUM ABOVE NEW FINISHED CEILING. ADD SHEET ANGLE/IRATEL SUPPORT FOR BRICK VENEER ABOVE TO REMAIN. SEE STRUCTURAL.
  - (33) REMOVE BRICK VENEER ENTIRE HEIGHT OF WALL.
  - (34) REMOVE CONCRETE MASONRY WALL TO PROVIDE NEW MASONRY OPENING, SIZE AS REQUIRED. WIDTH OF OPENING SHOULD BE AT LEAST 24" WIDER THAN FINAL OPENING REQUIRED, AND OF SUFFICIENT HEIGHT TO INSTALL NEW LINTEL/BEAM. WHENEVER POSSIBLE, REMOVE MASONRY AT EXISTING JOINTS. SEE STRUCTURAL DRAWINGS.
  - (35) REMOVE MECHANICAL EQUIPMENT ENCLOSURE/SCREEN.
  - (36) REMOVE STUD AND GIBS PARTITION.
- DOORS AND WINDOWS**
- (41) REMOVE ALUMINUM STOREFRONT AND ENTRANCE SYSTEM. SALVAGE DOORS AND HARDWARE FOR REINSTALLATION WHERE SCHEDULED. (AT CONTRACTOR'S OPTION, DOOR FRAMES MAY BE SALVAGED FOR REUSE OR PROVIDE NEW FRAMES).
  - (42) REMOVE I.M. FRAME AND DOOR (AND Sidelights/TRANSOM WHERE OCCURS), AND HARDWARE.
  - (43) REMOVE DOOR ONLY, RETAIN FRAME FOR INSTALLATION OF NEW DOOR.
  - (44) REMOVE COILING COUNTER DOOR, HARDWARE AND SIZES.
  - (45) REMOVE AND SALVAGE WINDOW.
  - (46) REMOVE CHAIN LINK FENCE.
- FINISHES AND TRIM**
- (51) REMOVE VINYL ASBESTOS FLOOR TILE (BY OWNER).
  - (52) REMOVE CARPET.
  - (53) REMOVE VINYL WALL BASE.
  - (54) REMOVE SUSPENDED ACOUSTIC PANEL CEILING (SALVAGE UNDAMAGED ACOUSTIC PANELS IN QUANTITY REQUESTED BY OWNER).
  - (55) REMOVE FOOD PICTURE RAIL.
  - (56) REMOVE HARDBOARD CEILING PANELS AND FURRING CHANNELS/SUPPORT FRAMING.
  - (57) REMOVE METAL FASCIA PANELS AND SUPPORT FRAMING. SEE DETAILS FOR EXTENT AND OTHER DEMOLITION REQUIRED AT ROOF EDGE.
  - (58) REMOVE GIBS SOFFIT/CEILING AND SUPPORT FRAMING.
  - (59) REMOVE SEAMLESS EPOXY FLOORING.
  - (60) REMOVE RECESSED WALK-OFF MAT.
  - (61) REMOVE ASBESTOS SHEET VINYL FLOORING (BY OWNER).
  - (62) REMOVE EXISTING STAIR NOSING.
- EQUIPMENT, CASEWORK, FIXTURES**
- NOTE: SALVAGE ALL ITEMS REQUESTED BY OWNER.
- (63) REMOVE FOOD CABINETS/CASEWORK.
  - (64) REMOVE DISPLAY CASE.
  - (65) REMOVE FIRE EXTINGUISHER CABINET.
  - (66) REMOVE CHALK OR TALK BOARD, FLAGEL, ETC.
  - (67) REMOVE LOCKERS.
  - (68) REMOVE WOOD BENCH.
  - (69) MODIFY TOILET PARTITIONS FOR HANDICAP ACCESS.
  - (70) REMOVE GRAB BARS.
  - (71) REMOVE URINAL SCREENS.
  - (72) REMOVE AND SALVAGE WALL MOUNTED SAFETY PADS FOR RELOCATION TO GYMNASIUM
- MISCELLANEOUS**
- (11) REMOVE HANDRAIL.
  - (12) REMOVE PIPE BOLLARDS/GUARDRAIL.
  - (13) REMOVE 48"x32" AIR TRANSFER GRILLES, DAMPERS, ETC.

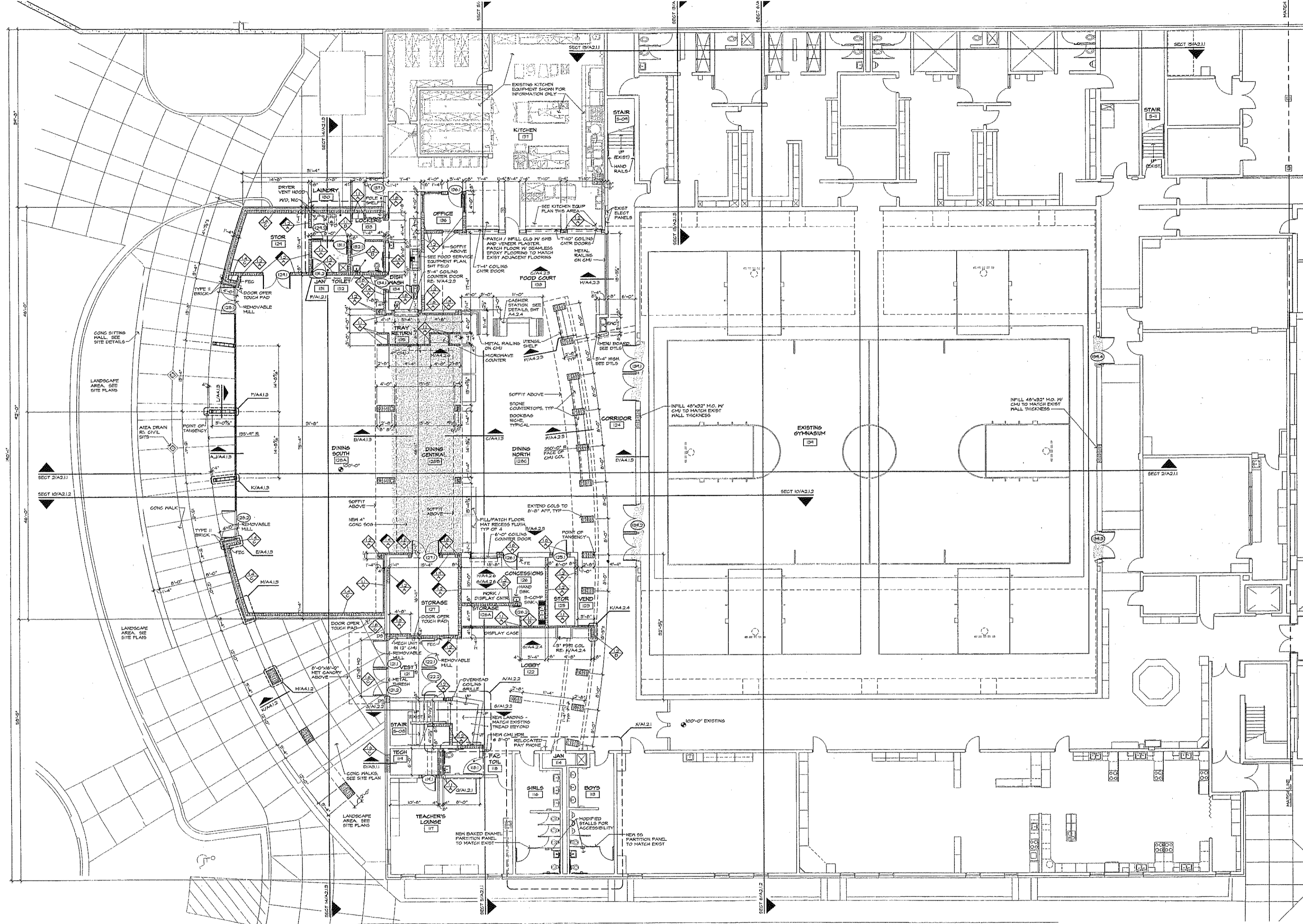
**A FIRST FLOOR DEMOLITION PLAN**  
 1/8" = 1'-0"

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**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
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**SHEET D1.1**  
 FIRST FLOOR DEMOLITION PLAN



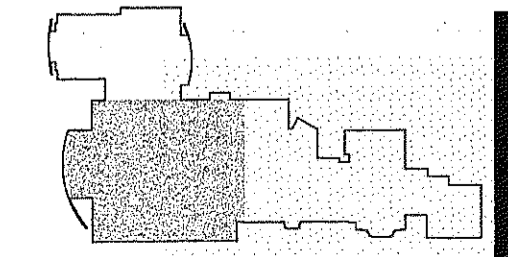
PROJECT NO 4928.03  
 DATE OCT 2003  
 DRAWN BY  
 REVISION

**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
 THE WICKERT DRIVE, SUITE F  
 MANHATTAN, KANSAS 66502  
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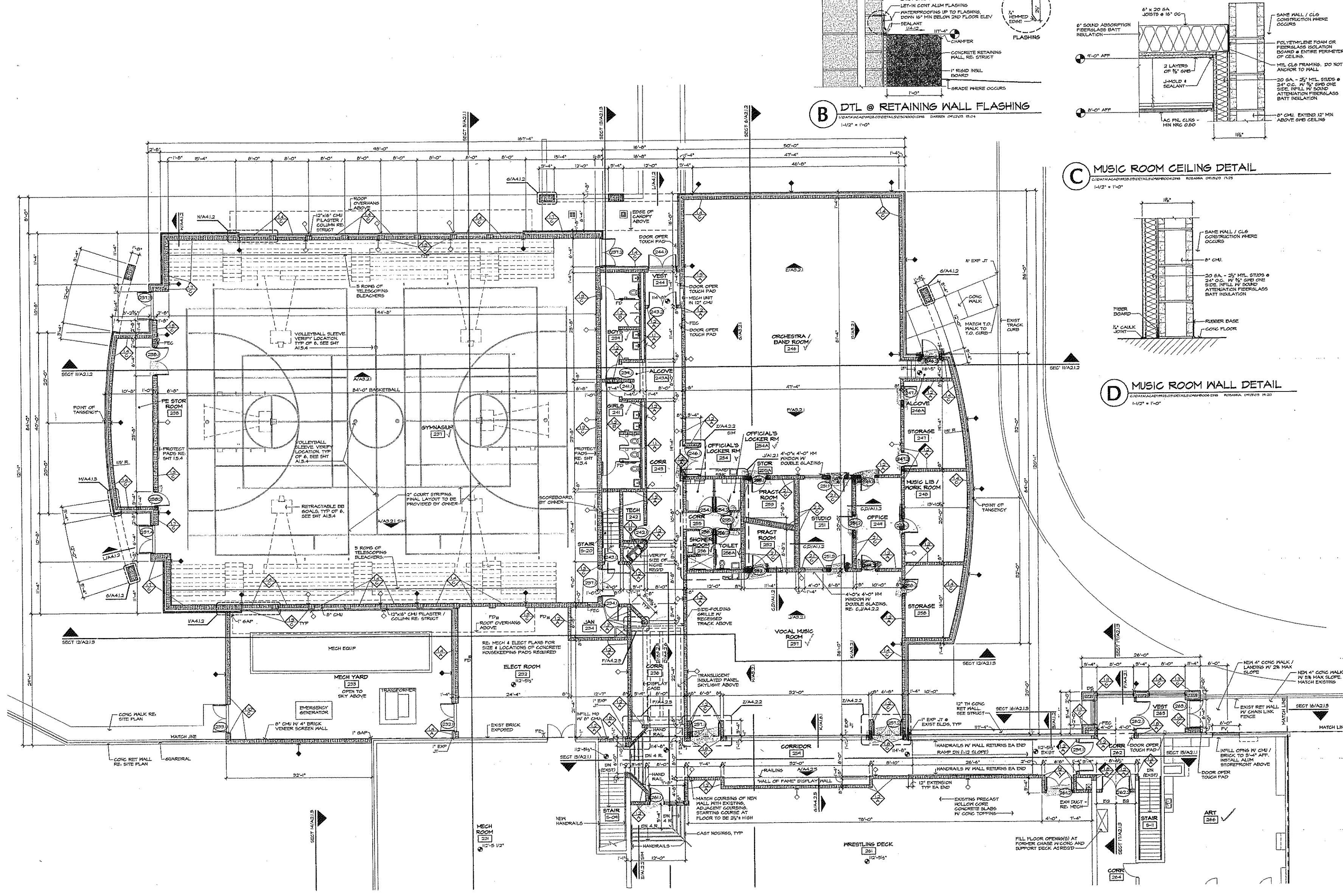
**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**A** FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST  
 1/8" = 1'-0"



KEY PLAN

SHEET  
**A1.1.1**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST



**A** SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST  
1/8" = 1'-0"

**B** DTL @ RETAINING WALL FLASHING  
1/2" = 1'-0"

**C** MUSIC ROOM CEILING DETAIL  
1/2" = 1'-0"

**D** MUSIC ROOM WALL DETAIL  
1/2" = 1'-0"

KEY PLAN

PROJECT NO 9428.03  
DATE OCT 2003  
DRAWN BY  
REVISION

The Ken Ebert Design Group  
Architects and Planning Consultants  
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Manhattan, Kansas 66502  
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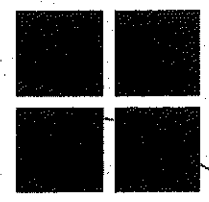


Wamego High School Improvements  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

SHEET  
**A1.1.2**  
SECOND FLOOR IMPROVEMENT  
PLAN - SOUTHWEST

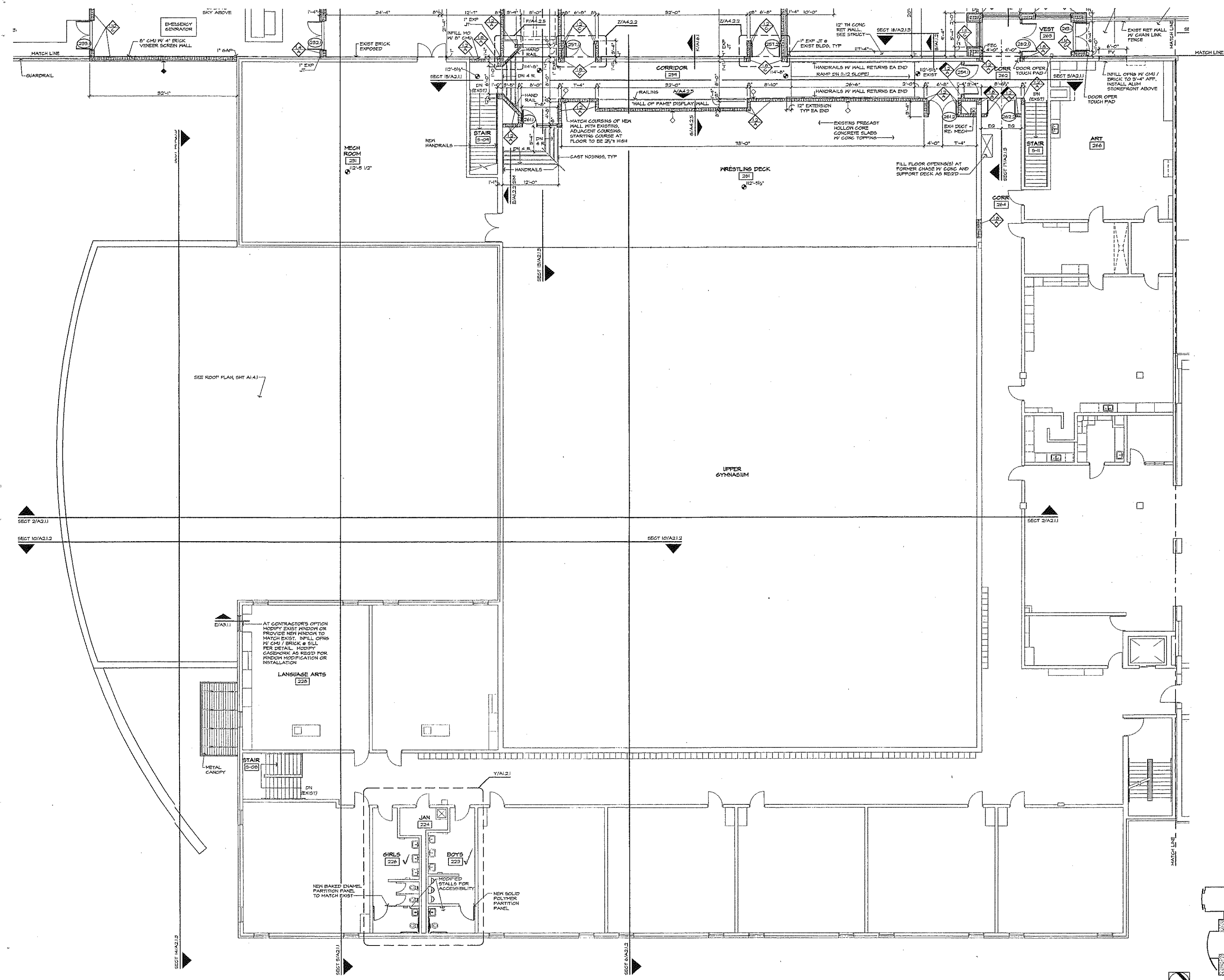


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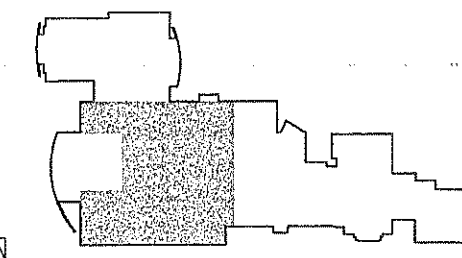

**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
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**SHEET**  
**A1.1.3**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTH-EAST



**A** SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST  
 1/8" = 1'-0"

THIS SHEET IS PROVIDED FOR THE BENEFIT OF THE AUTOMATIC FIRE SPRINKLER CONTRACTOR



KEY PLAN

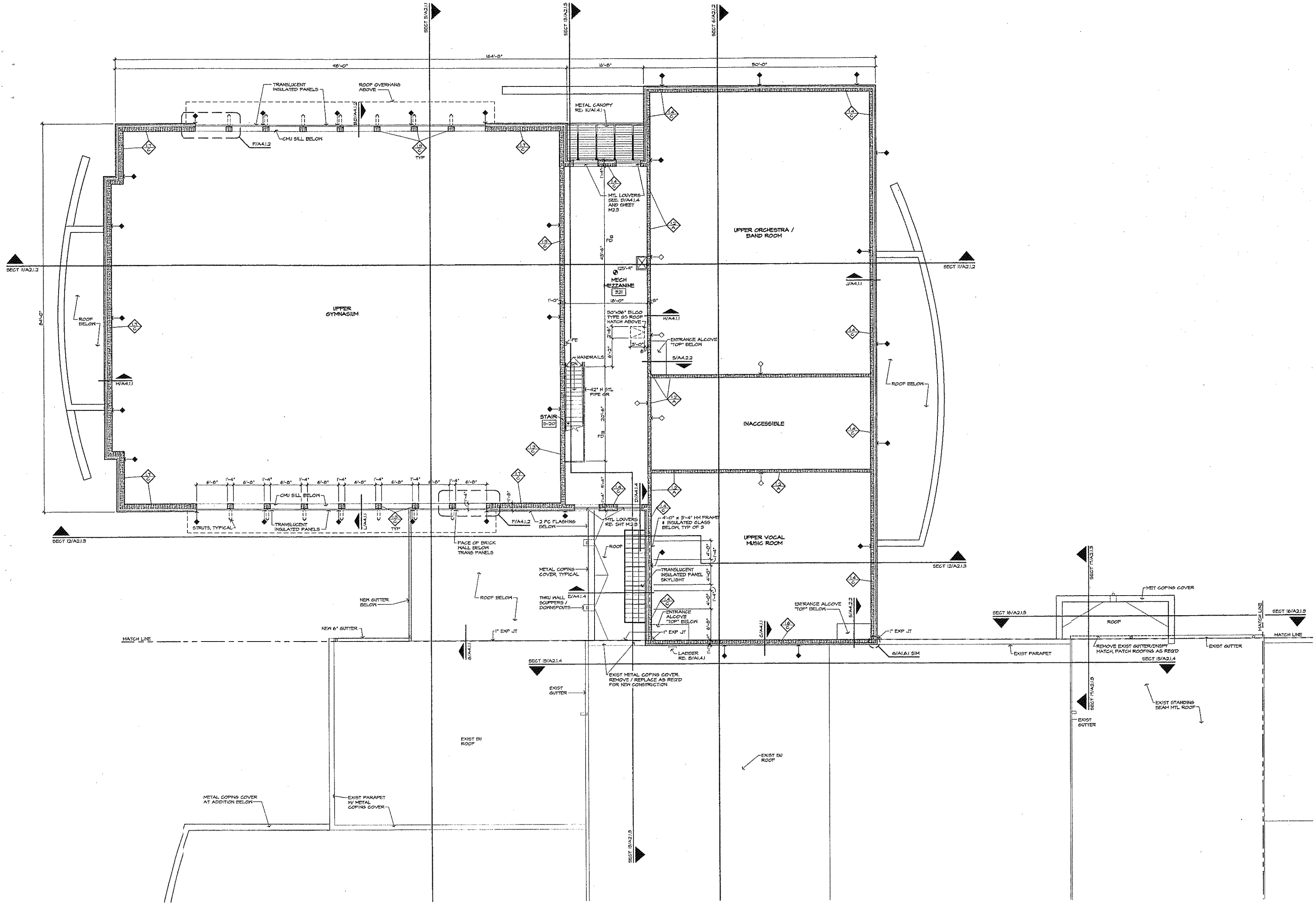


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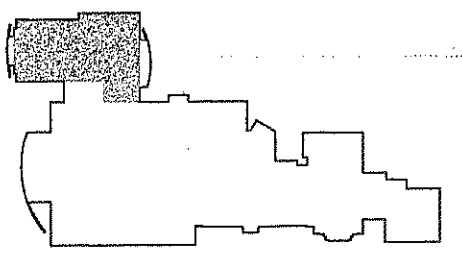


**Wamego High School Improvements**  
 Phase I  
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SHEET  
**A1.1.4**  
 MEZZANINE IMPROVEMENT  
 PLAN - SOUTHWEST



**A** MEZZANINE IMPROVEMENT PLAN - SOUTHWEST  
 1/8" = 1'-0"

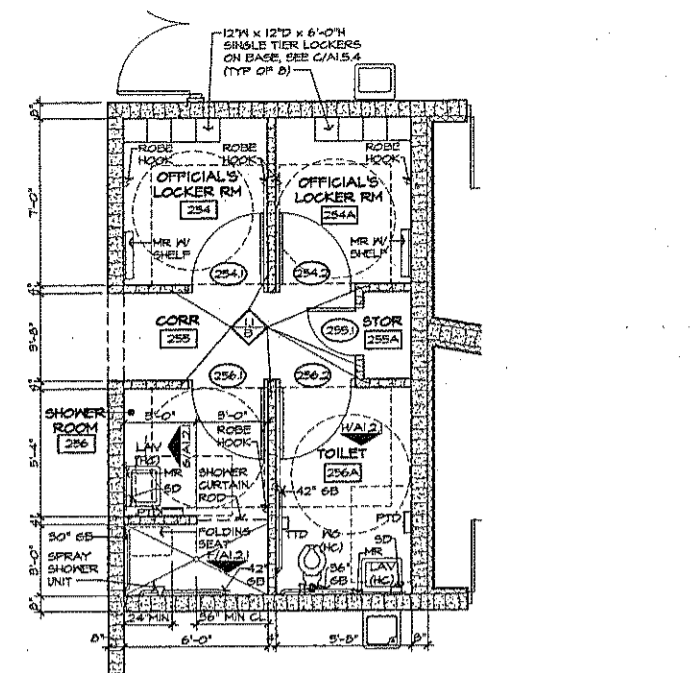


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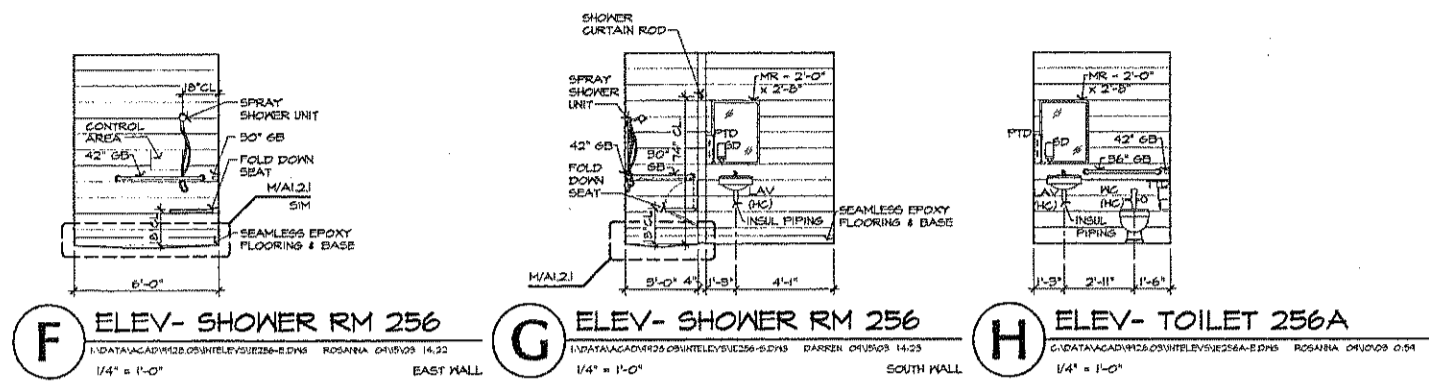
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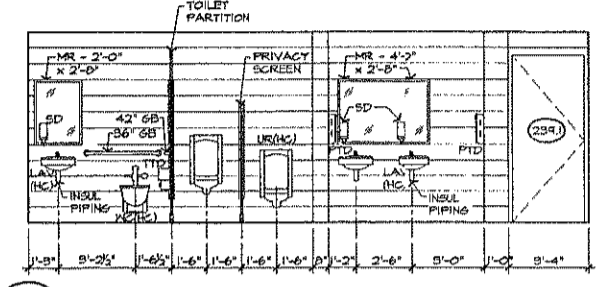
**Wamego High School Improvements Phase I**  
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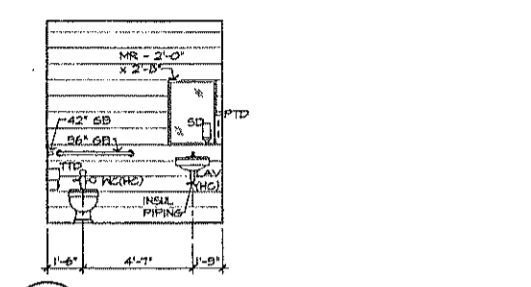
**J ENLARGED PLANS**  
 RMS 254, 254A, 255, 255A, 256 & 256A  
 1/4" = 1'-0"



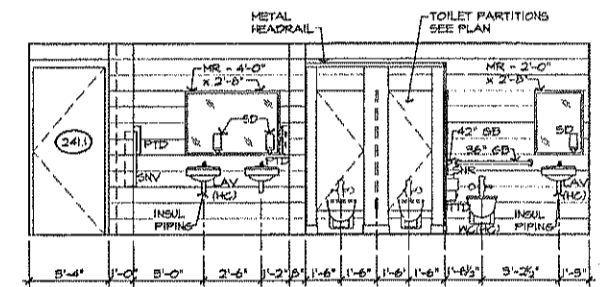
**F ELEV- SHOWER RM 256** 1/4" = 1'-0"  
**G ELEV- SHOWER RM 256** 1/4" = 1'-0"  
**H ELEV- TOILET 256A** 1/4" = 1'-0"



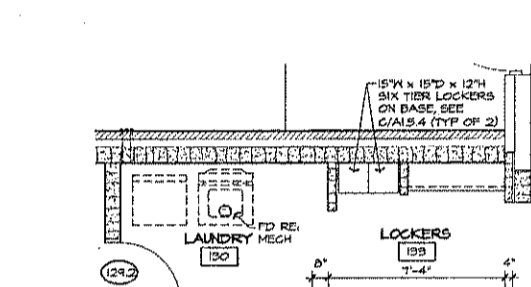
**D ELEV- BOY'S RESTROOM 239**  
 1/4" = 1'-0"



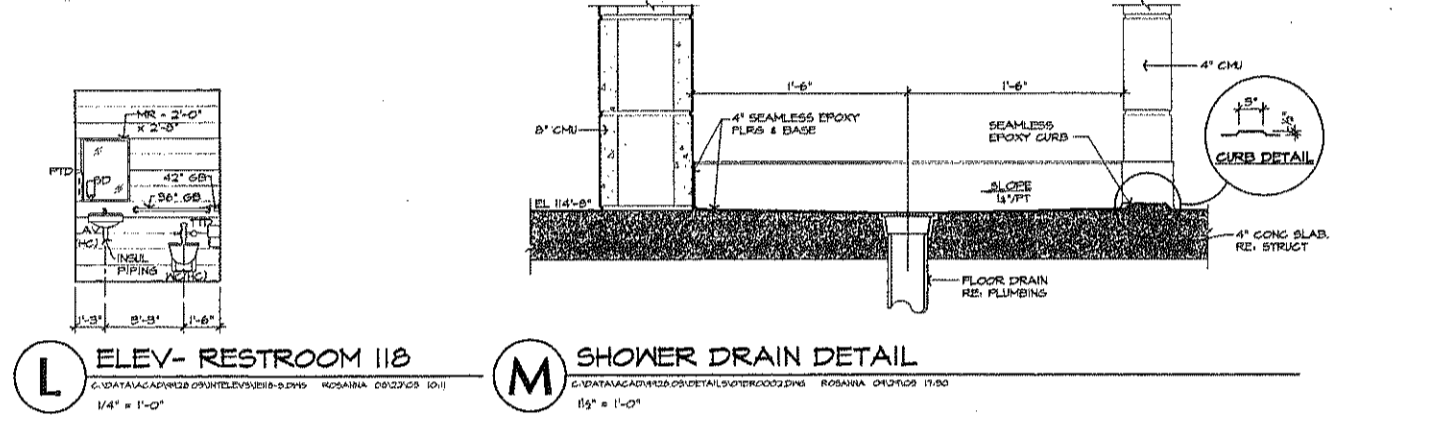
**E ELEV- RESTROOM 132**  
 1/4" = 1'-0"



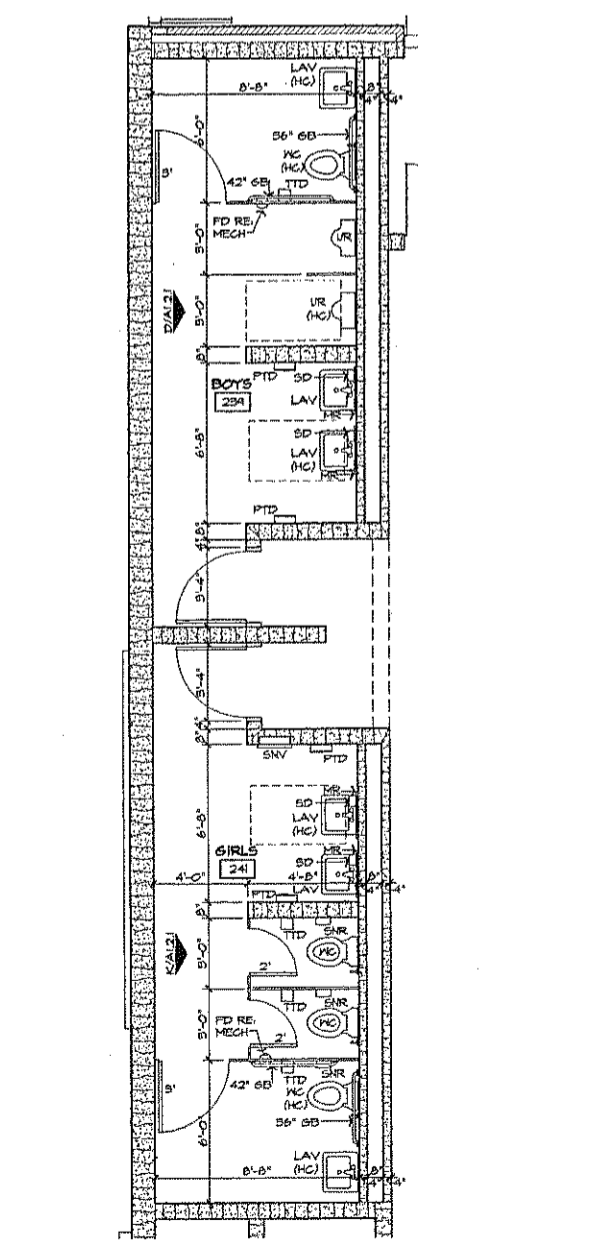
**K ELEV- GIRLS RESTROOM 241**  
 1/4" = 1'-0"



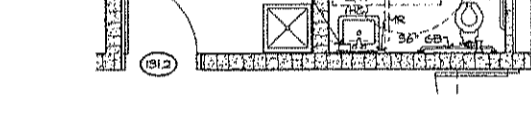
**L ELEV- RESTROOM 118**  
 1/4" = 1'-0"



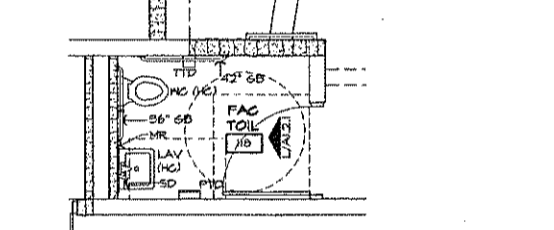
**M SHOWER DRAIN DETAIL**  
 1/2" = 1'-0"



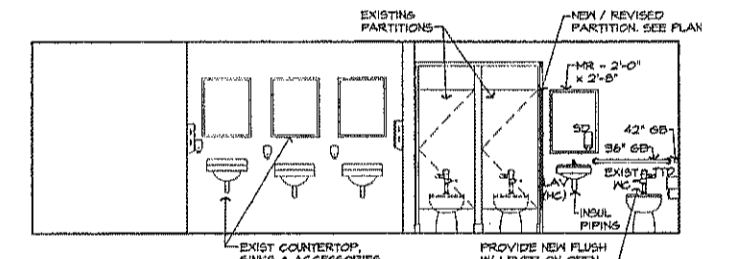
**S ENLARGED PLANS - RMS 239 & 241**  
 1/4" = 1'-0"



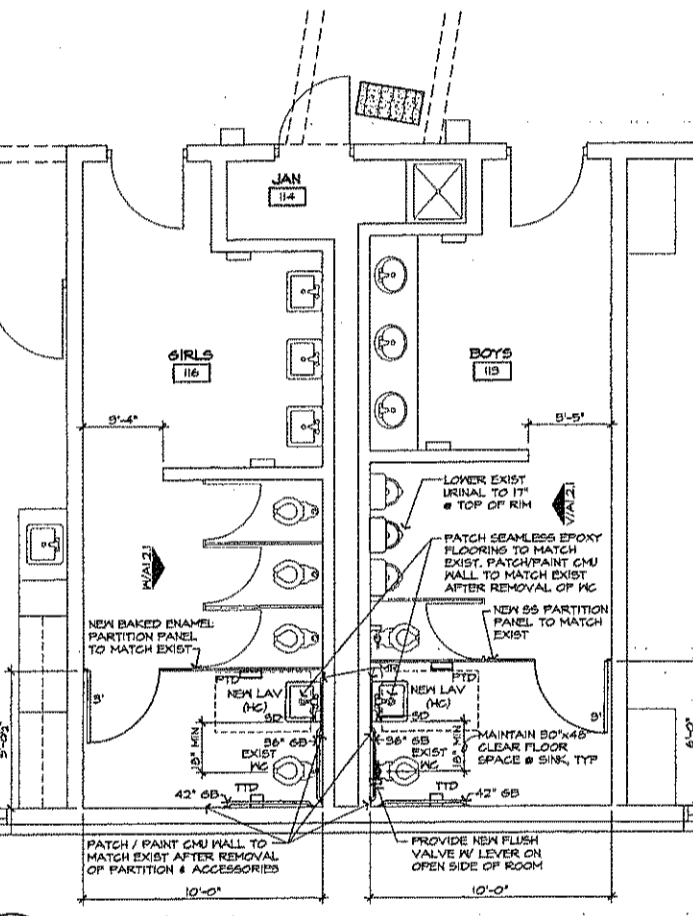
**P ENLARGED PLANS**  
 RMS 130, 131, 132 & 133  
 1/4" = 1'-0"



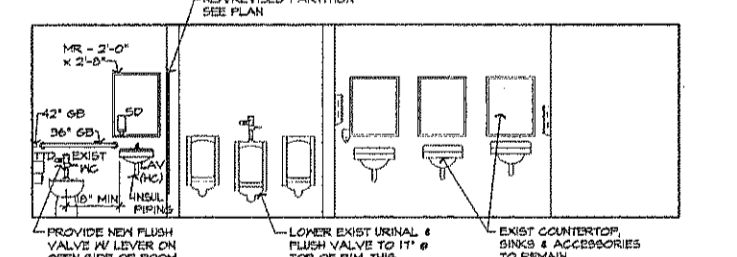
**Q ENLARGED PLAN - RM 118**  
 1/4" = 1'-0"



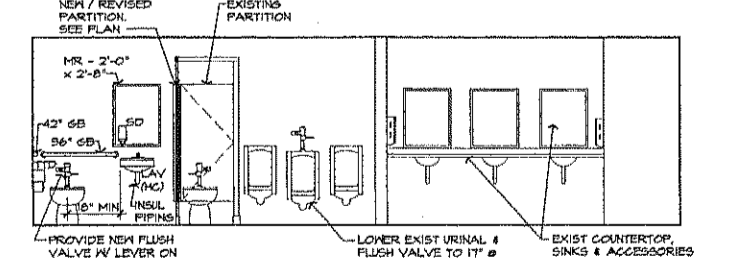
**R ELEV- GIRL'S RESTROOM 226**  
 1/4" = 1'-0"



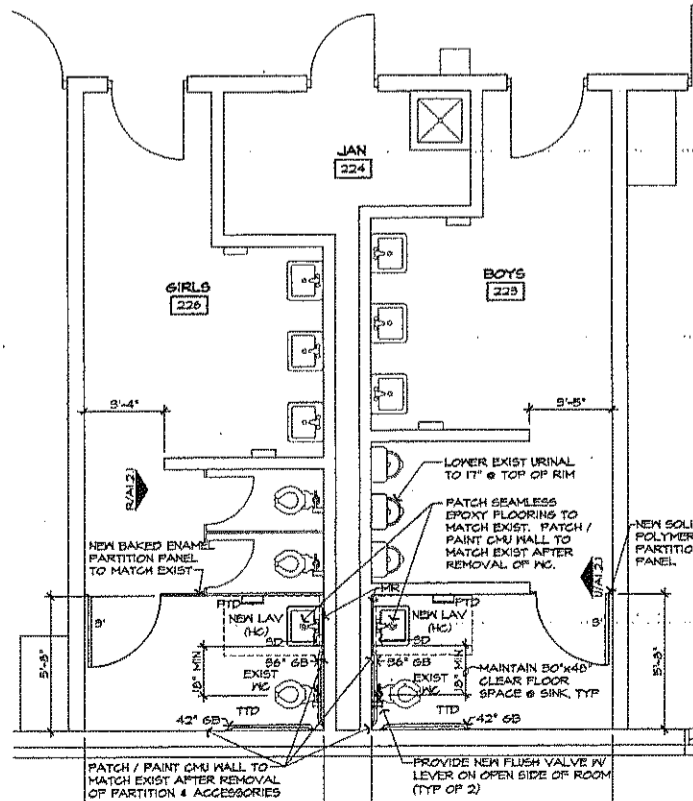
**X ENLARGED PLANS - RMS 113 & 116**  
 1/4" = 1'-0"



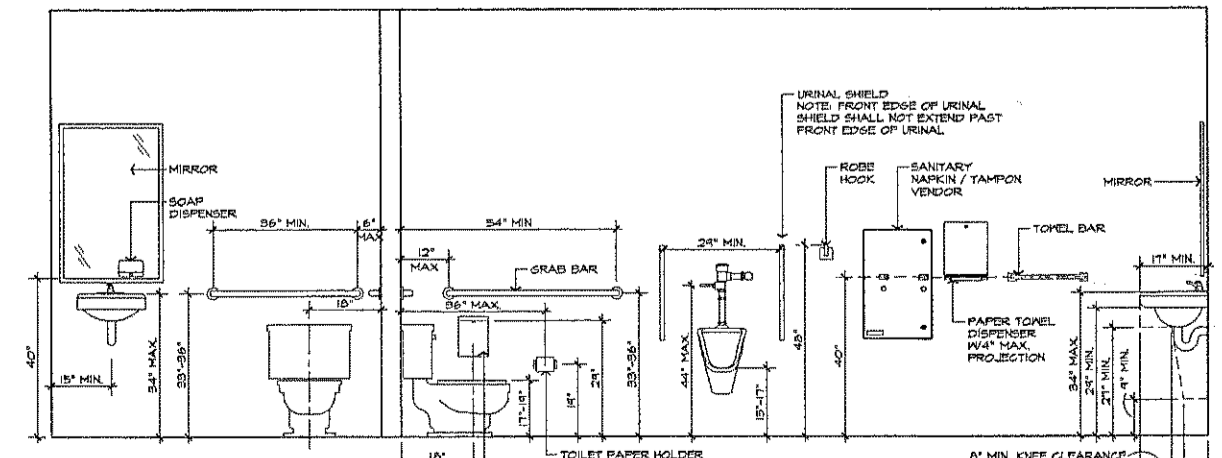
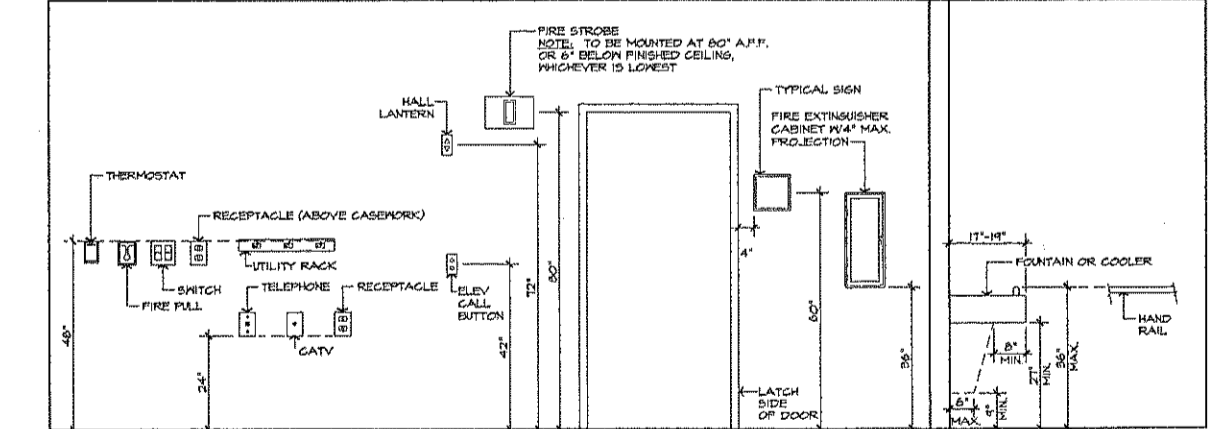
**U ELEV- BOY'S RESTROOM 223**  
 1/4" = 1'-0"



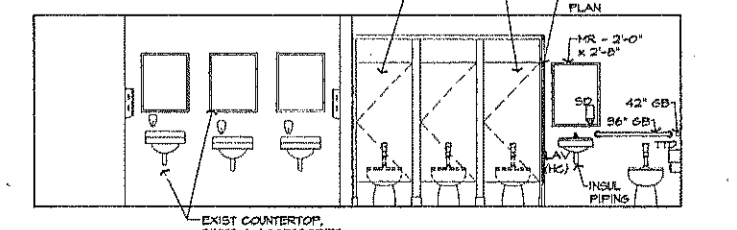
**V ELEV- BOY'S RESTROOM 113**  
 1/4" = 1'-0"



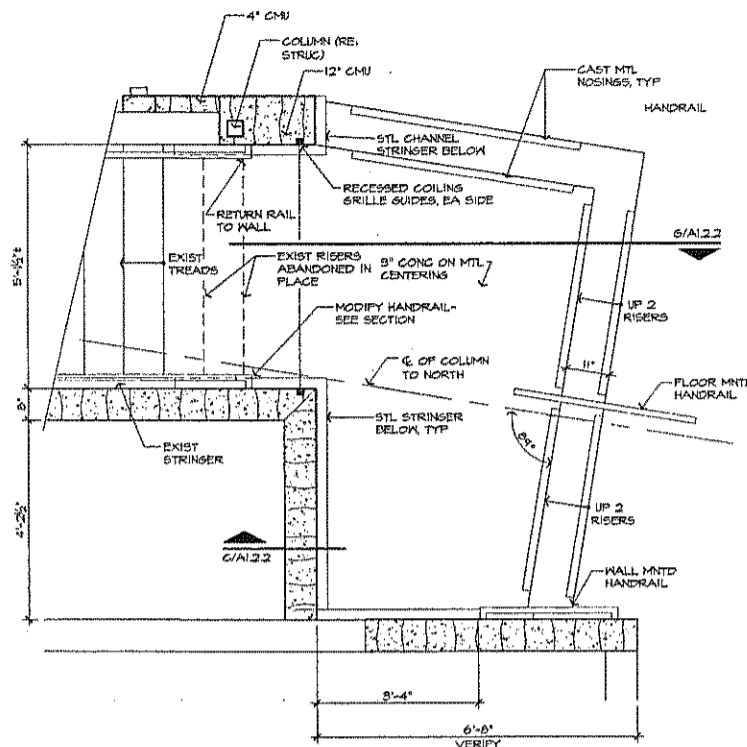
**Y ENLARGED PLANS - RMS 223 & 226**  
 1/4" = 1'-0"



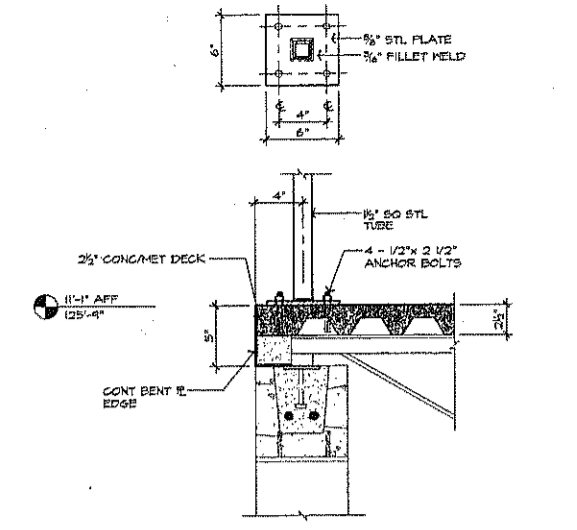
**T TYPICAL FIXTURE MOUNTING HEIGHTS**  
 1/2" = 1'-0"



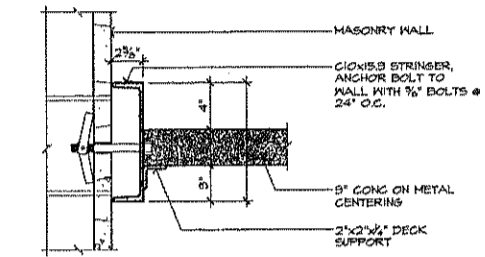
**W ELEV- GIRL'S RESTROOM 116**  
 1/4" = 1'-0"



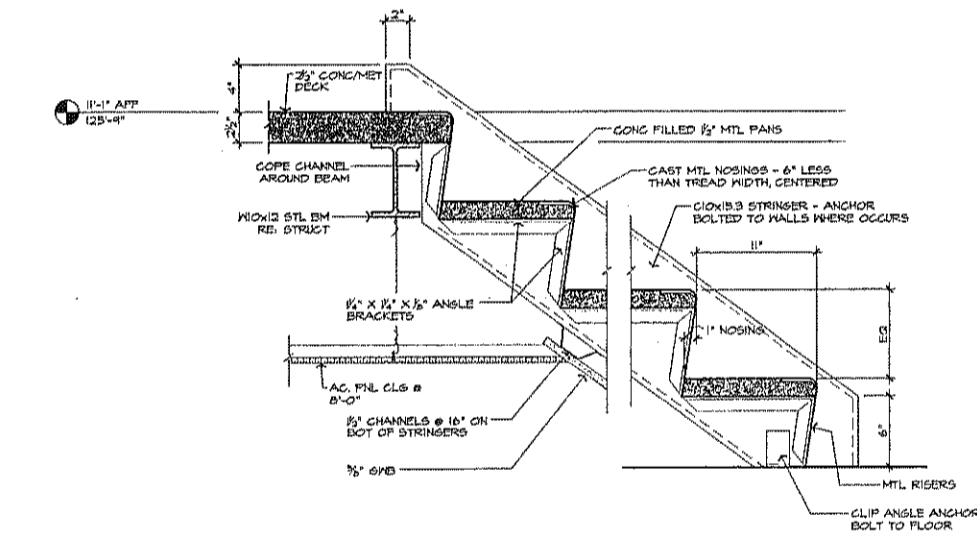
**A** MODIFIED STAIR LANDING PLAN  
 1/2\"/>



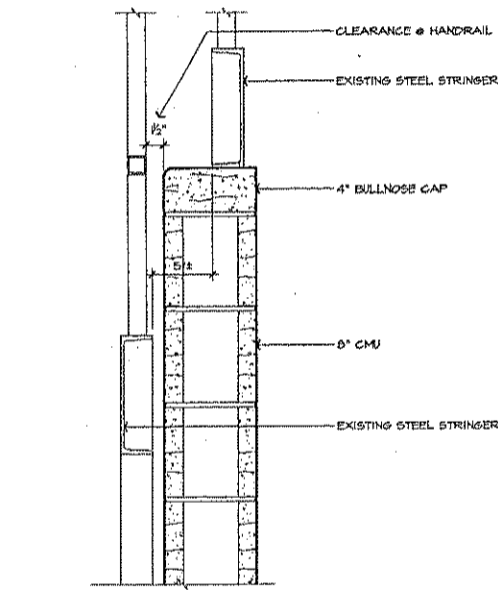
**B** HANDRAIL BASE DETAIL  
 1/2\"/>



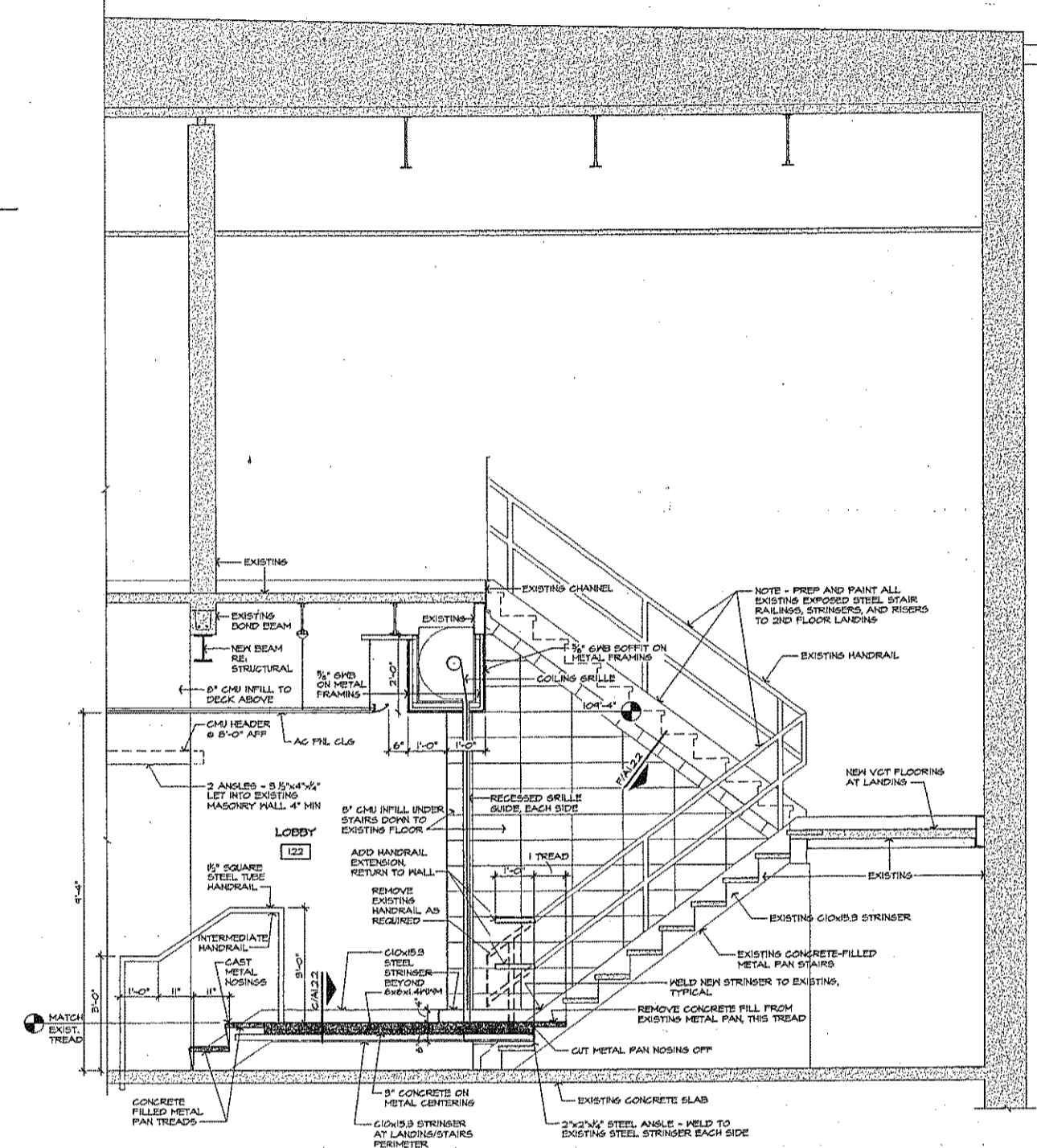
**C** TYPICAL STRINGER DETAIL  
 1/2\"/>



**E** METAL PAN STAIR S-20 DETAIL  
 1/2\"/>



**F** SECTION @ MASONRY INFILL  
 1/2\"/>



**G** MODIFICATION TO STAIR - 08  
 1/2\"/>

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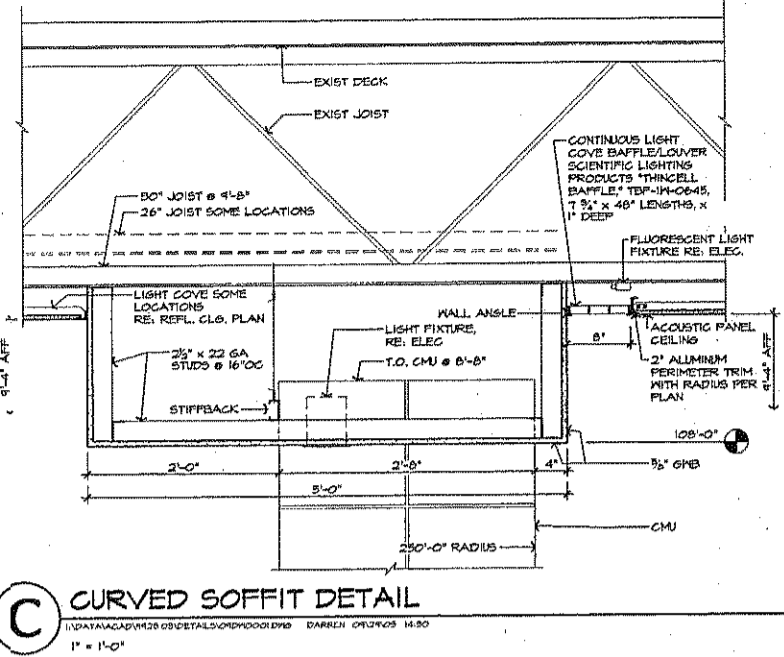
Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

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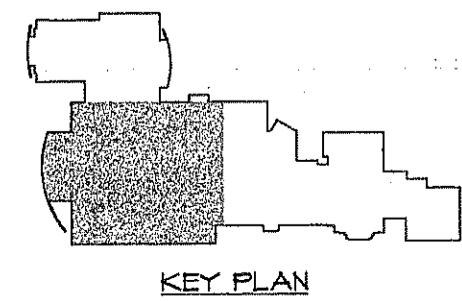
**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

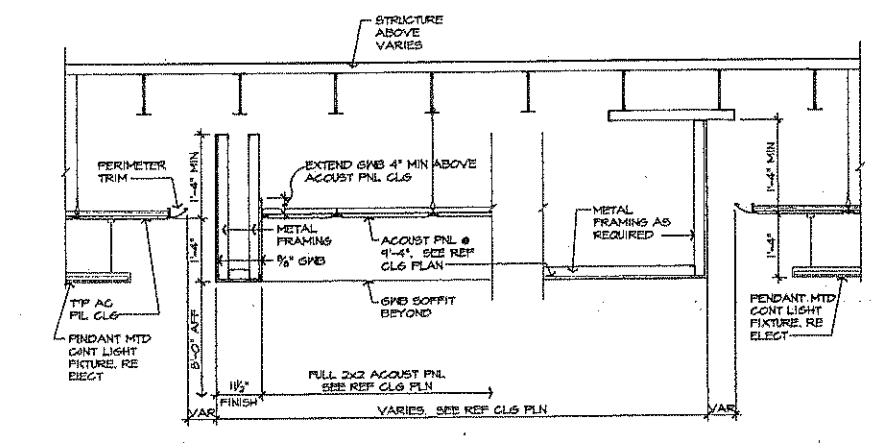
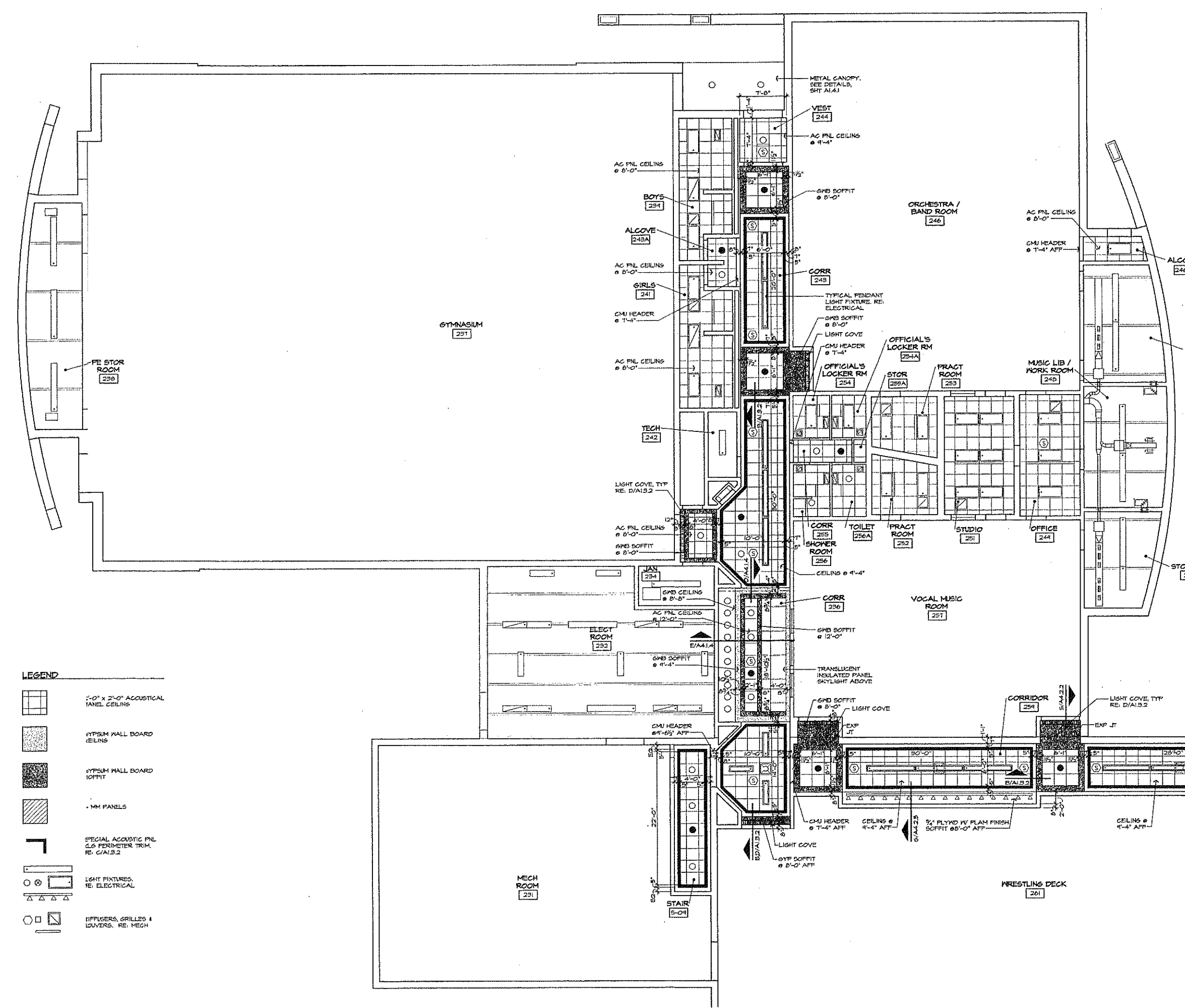
**SHEET**  
**A1.3.1**  
 FIRST FLOOR REFLECTED CEILING PLAN - SOUTHEAST



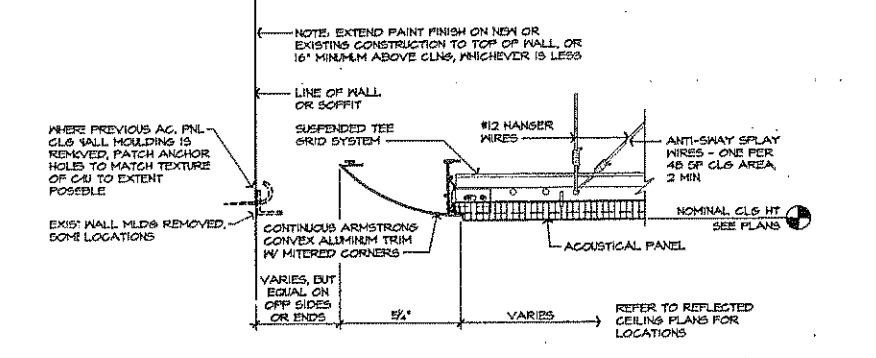
- LEGEND**
- 2'-0" x 2'-0" ACOUSTICAL PANEL CEILING
  - GYPSUM WALL BOARD CEILING
  - GYPSUM WALL BOARD SOFFIT
  - 4 MM PANELS
  - SPECIAL ACOUSTIC P.L. CLG PERIMETER TRIM RE. CA1.3.2
  - LIGHT FIXTURES, RE. ELECTRICAL
  - DIFFUSERS, GRILLES & LOUVERS, RE. MECH

**A** FIRST FLOOR REFLECTED CEILING PLAN - SOUTHEAST  
 1/8" = 1'-0"

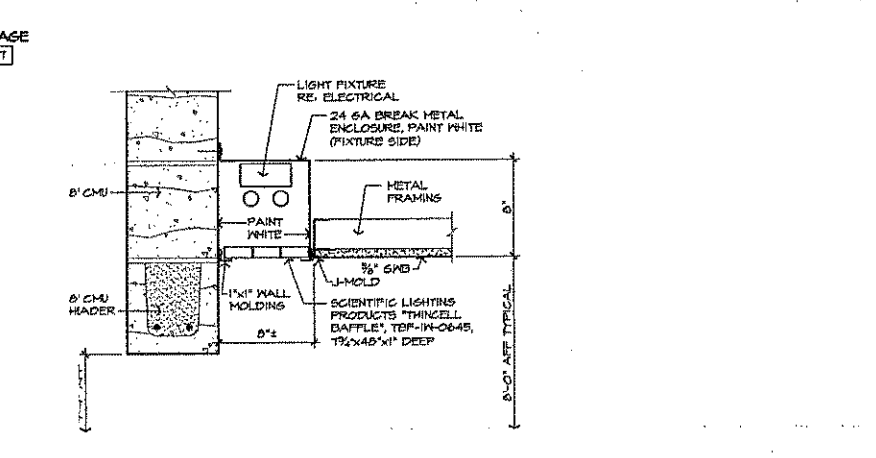




**B** TYPICAL CORRIDOR CEILING SOFFIT DETAILS  
DATA: ACPHUBS.DETALS\060002.DWG ROSANKA 09/05/08 11:00  
 1/2" = 1'-0"



**C** SPECIAL ACOUST PNL CLG PERIMETER TRIM DTL  
DATA: ACPHUBS.DETALS\060003.DWG ROSANKA 09/05/08 11:00  
 3/4" = 1'-0"

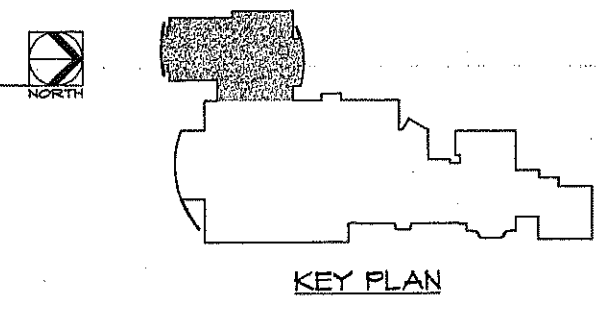


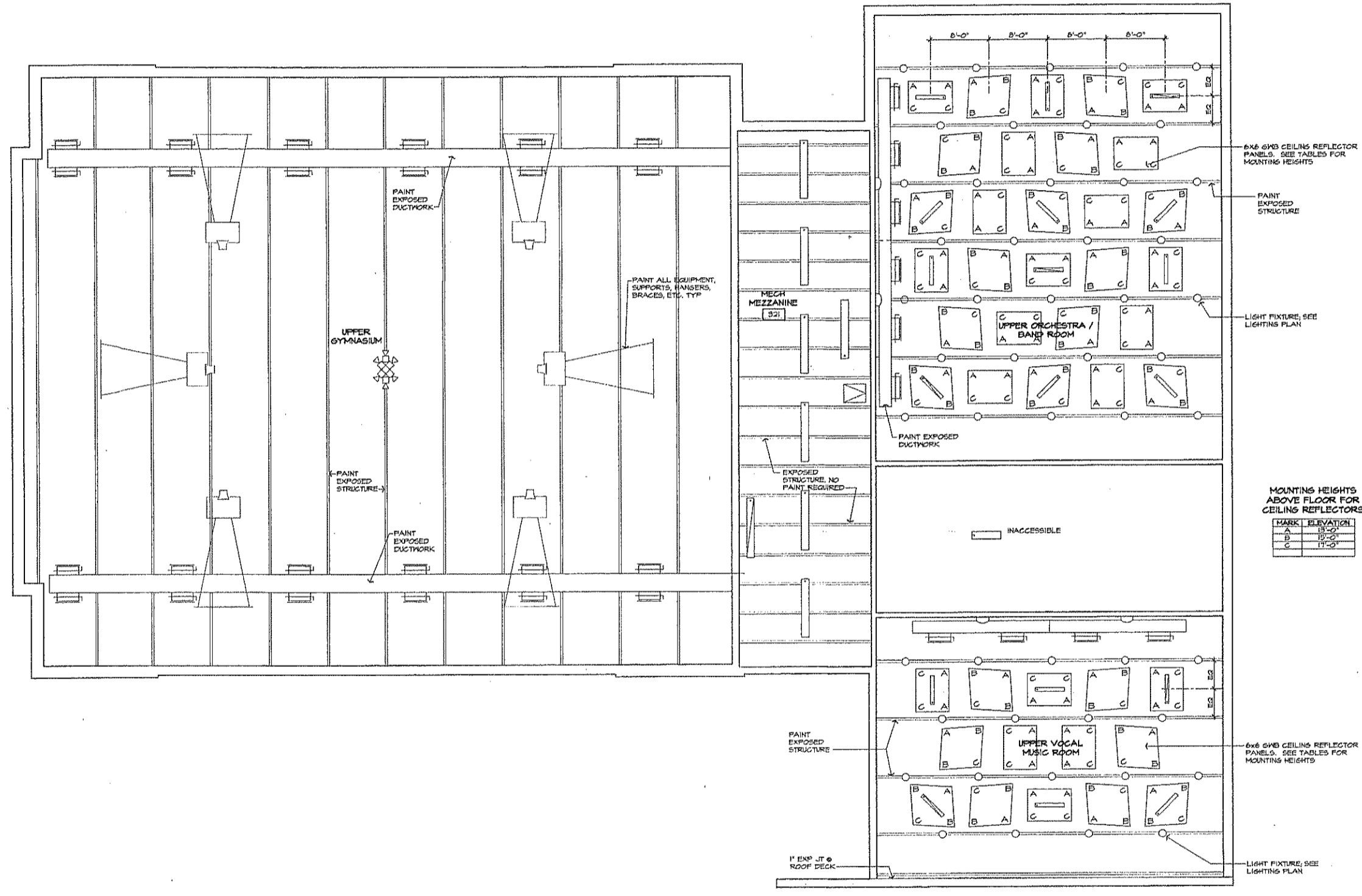
**D** TYPICAL LIGHT COVE DETAIL  
DATA: ACPHUBS.DETALS\060004.DWG ROSANKA 09/05/08 11:00  
 1/2" = 1'-0"

**LEGEND**

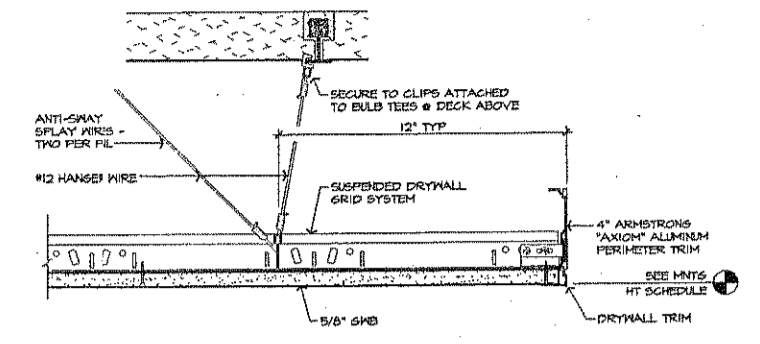
	2'-0" x 2'-0" ACOUSTICAL PANEL CEILING
	GYPSUM WALL BOARD CEILING
	GYPSUM WALL BOARD SOFFIT
	1/2" MM PANELS
	SPECIAL ACOUSTIC PNL CLG PERIMETER TRIM RE. G.A.I.S.2
	LIGHT FIXTURES, RE. ELECTRICAL
	DIFFUSERS, GRILLES & COVERS, RE. MECH.

**A** SECOND FLOOR REFLECTED CEILING PLAN - SOUTHWEST  
 1/8" = 1'-0"

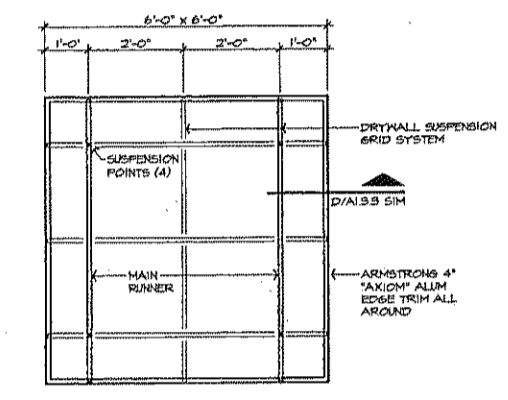




**A** MEZZANINE / HIGH ROOF REFLECTED CEILING PLAN - SOUTHWEST  
 1/8" = 1'-0"

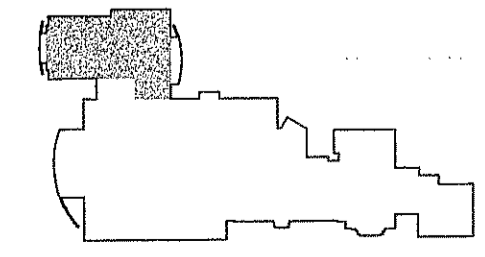


**D** CLG REFLECTOR PERIMETER TRIM DETAIL  
 3/4\"/>

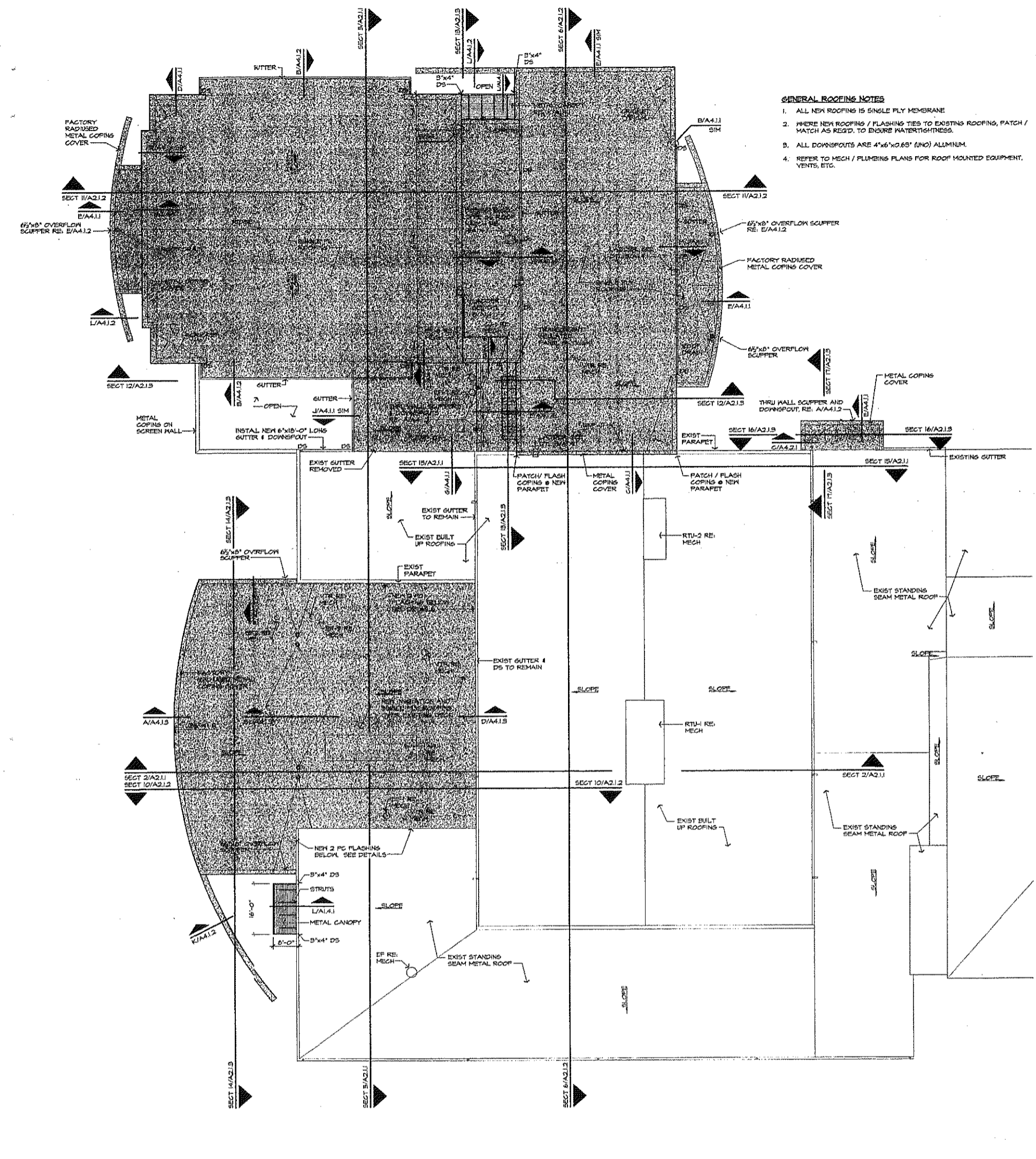


**E** TYPICAL CLG REFLECTOR FRAMING PLAN  
 1/2\"/>

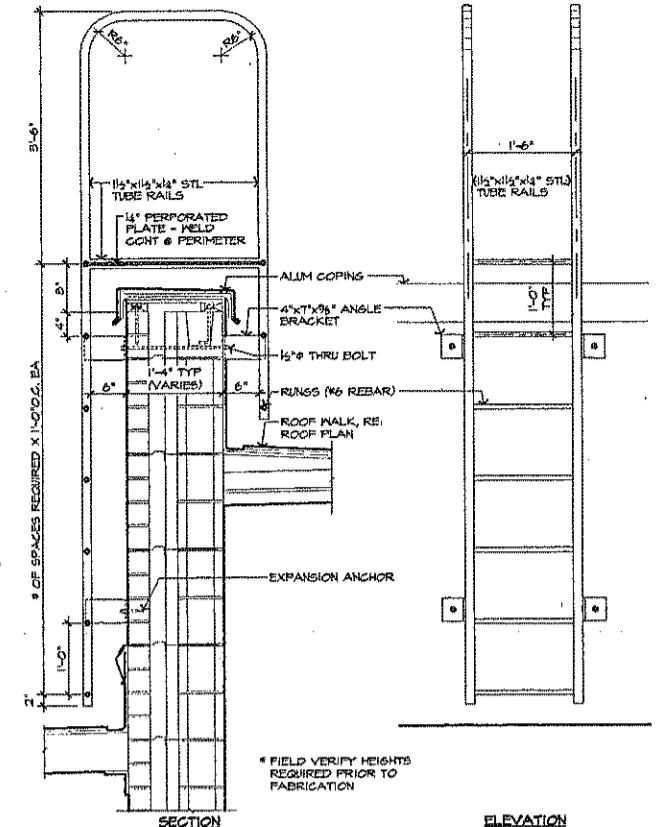
- LEGEND**
- 2'-0\"/>
  - 2'-0\"/>
  - GYMNASIUM HALL BOARD CEILING
  - GYMNASIUM HALL BOARD SOFFIT
  - 4 MM PANELS
  - SPECIAL ACOUSTIC PNL. CLG PERIMETER TRIM. RE: C/A13.2
  - LIGHT FIXTURES. RE: ELECTRICAL
  - DIFFUSERS, GRILLES & LOUVERS. RE: MECH



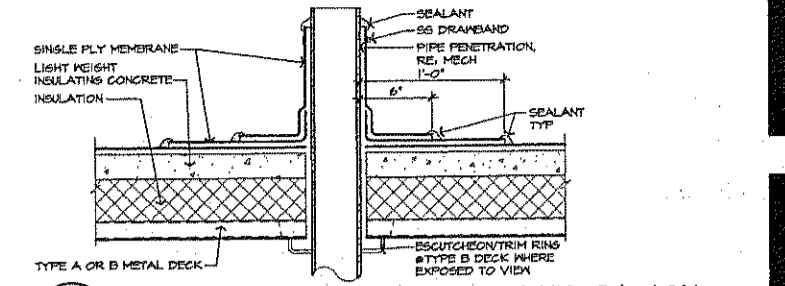
KEY PLAN



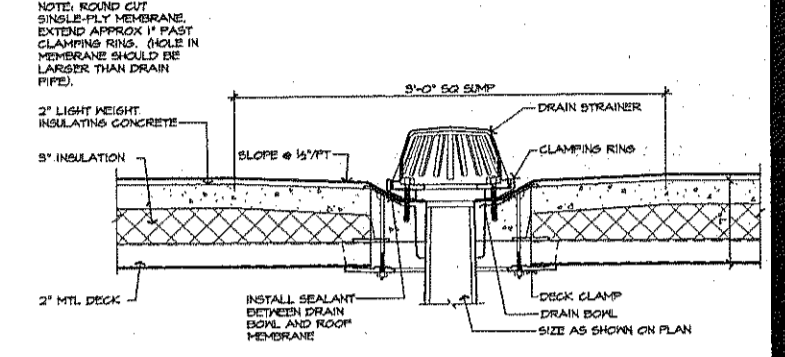
- GENERAL ROOFING NOTES**
1. ALL NEW ROOFING IS SINGLE FLY MEMBRANE
  2. WHERE NEW ROOFING / FLASHING TIES TO EXISTING ROOFING, PATCH / MATCH AS REQ'D. TO ENSURE WATER TIGHTNESS.
  3. ALL DOWNSPOUTS ARE 4"x6"x10" (AND) ALUMINUM.
  4. REFER TO MECH / PLUMBING PLANS FOR ROOF MOUNTED EQUIPMENT, VENTS, ETC.



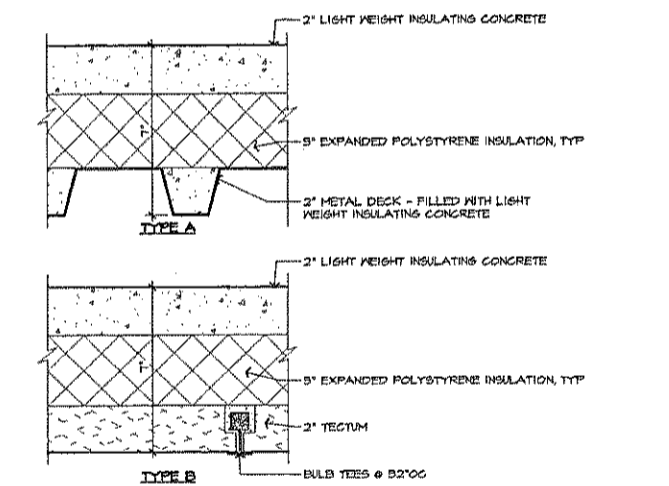
**B LADDER DETAIL**  
 1/2" x 1'-0"



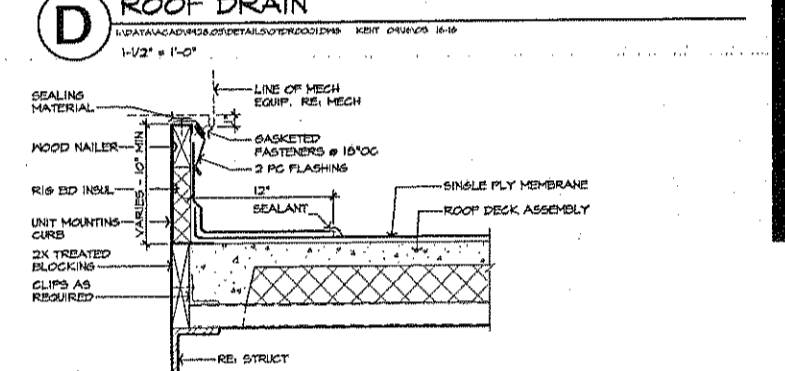
**C TYP. PIPE/CONDUIT ROOF PENETRATION**  
 1/2" x 1'-0"



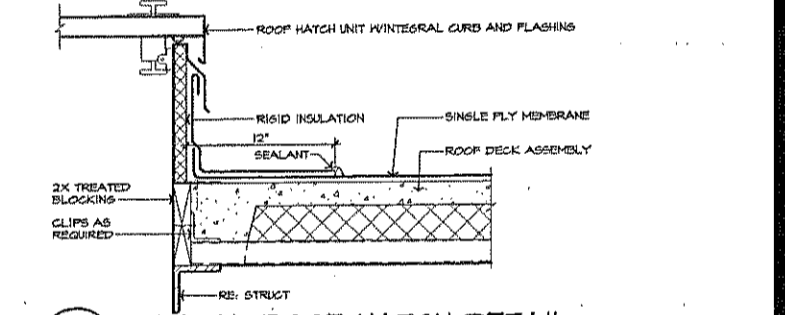
**D ROOF DRAIN**  
 1/2" x 1'-0"



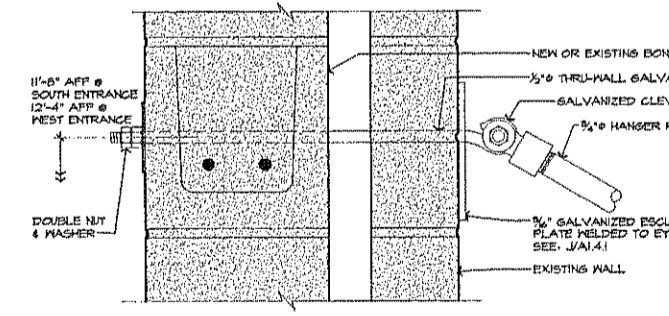
**E ROOF DECK ASSEMBLIES**  
 1/2" x 1'-0"



**F TYPICAL EQUIP CURB DETAIL**  
 1/2" x 1'-0"

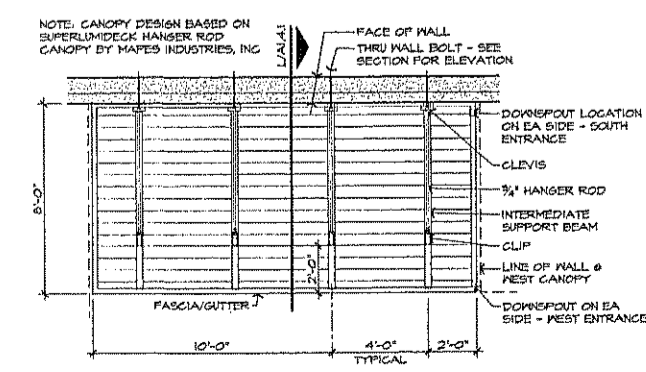


**H TYPICAL ROOF HATCH DETAIL**  
 1/2" x 1'-0"

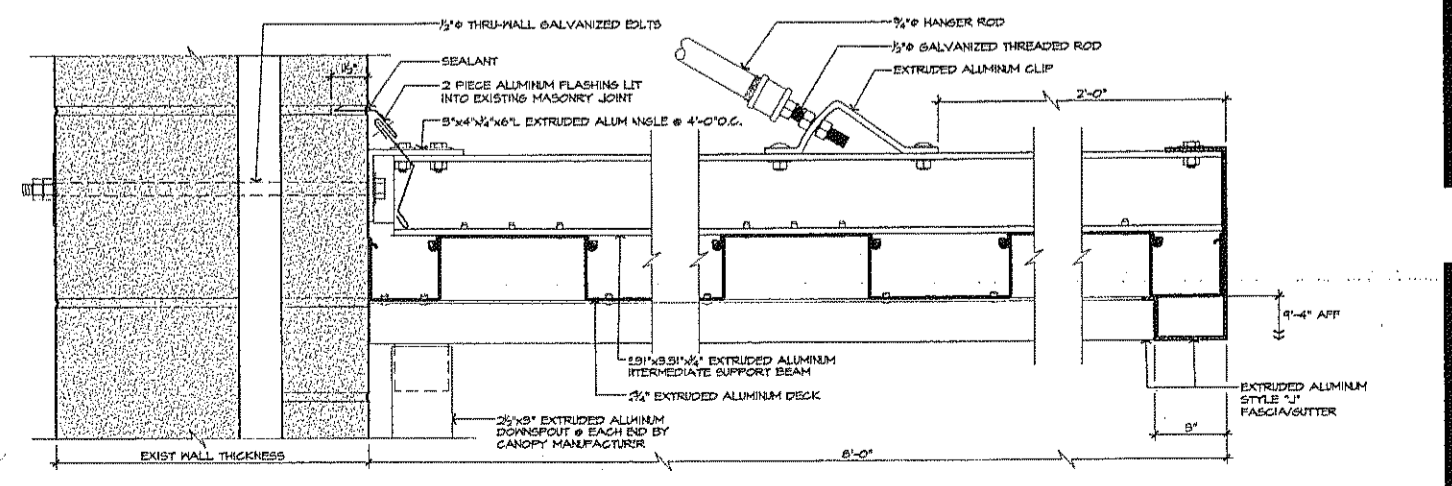


**J METAL CANOPY SUSP ROD WALL ESCUTCHEON**  
 1/2" x 1'-0"

**A ROOF PLAN**  
 1/8" = 1'-0"

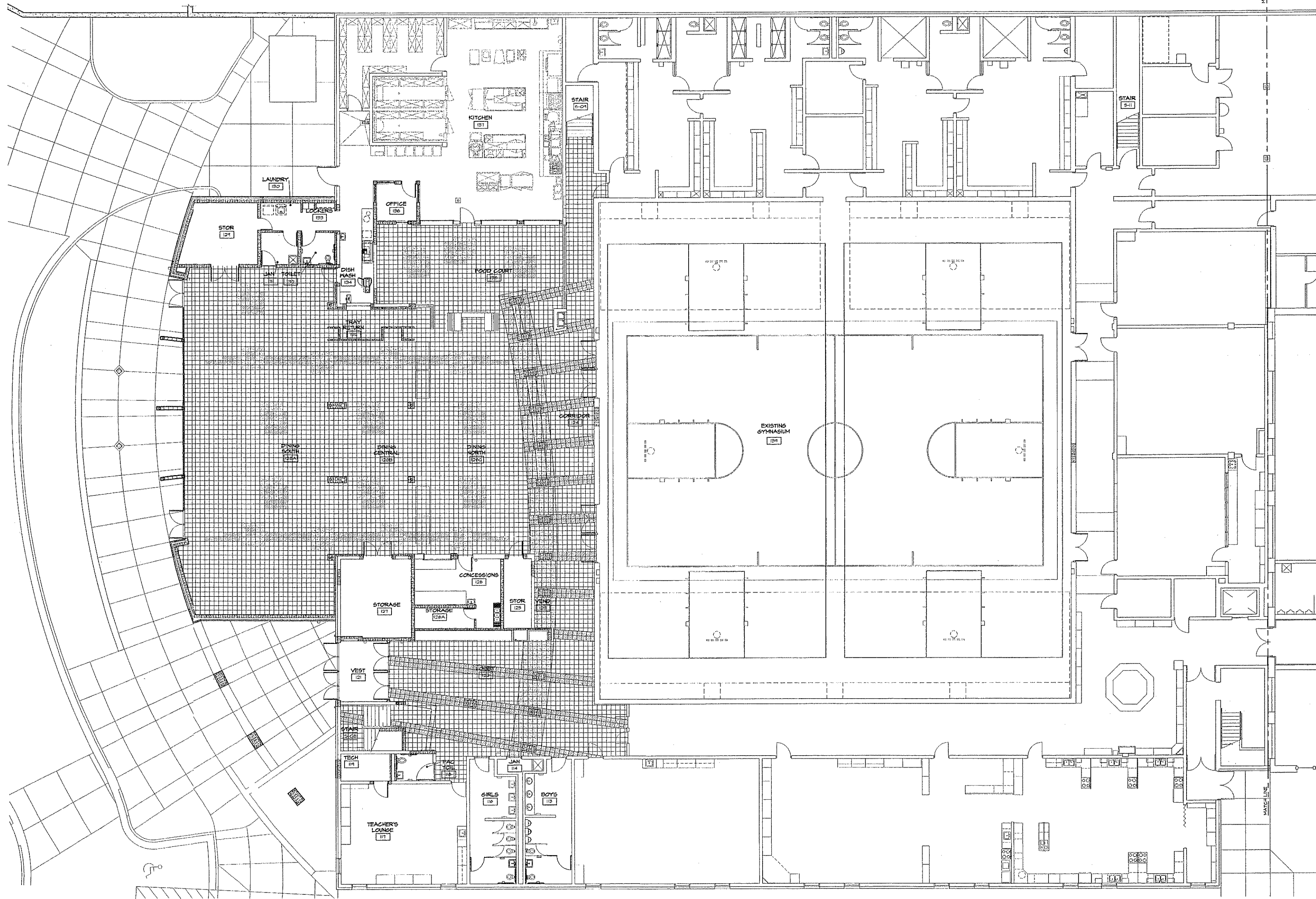


**K METAL CANOPY PLAN**  
 1/4" = 1'-0"



**L METAL CANOPY SECTION**  
 1/2" = 1'-0"



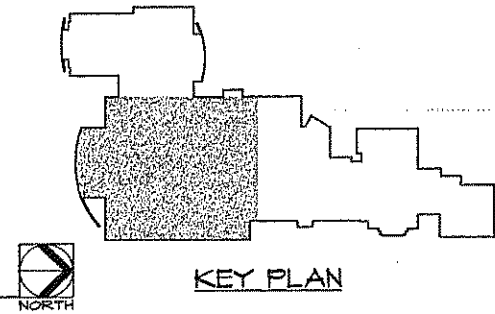


**A** FIRST FLOOR FINISH PLAN - SOUTHEAST  
1/8" = 1'-0"

KEY:

	VCT-1
	VCT-2
	VCT-3

NOTES:  
 1. FLOOR FINISH PLANS ARE TO BE USED FOR FLOOR PATTERNS ONLY. ALL OTHER FLOORING INFORMATION IS LOCATED WITHIN THE ROOM FINISH SCHEDULE.  
 2. IF ALTERNATE BID FOR EPOXY TERRAZZO FLOORING IS ACCEPTED, PATTERN LAYOUT AND COLORS WILL BE SAME AS SHOWN FOR VCT.



PROJECT NO 4128.03  
 DATE OCT 2008  
 DRAWN BY  
 REVISION

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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

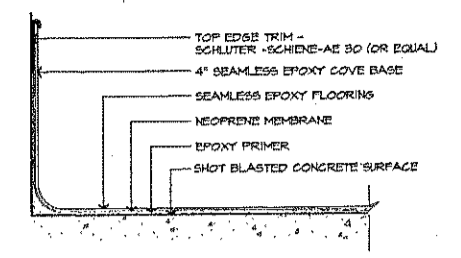
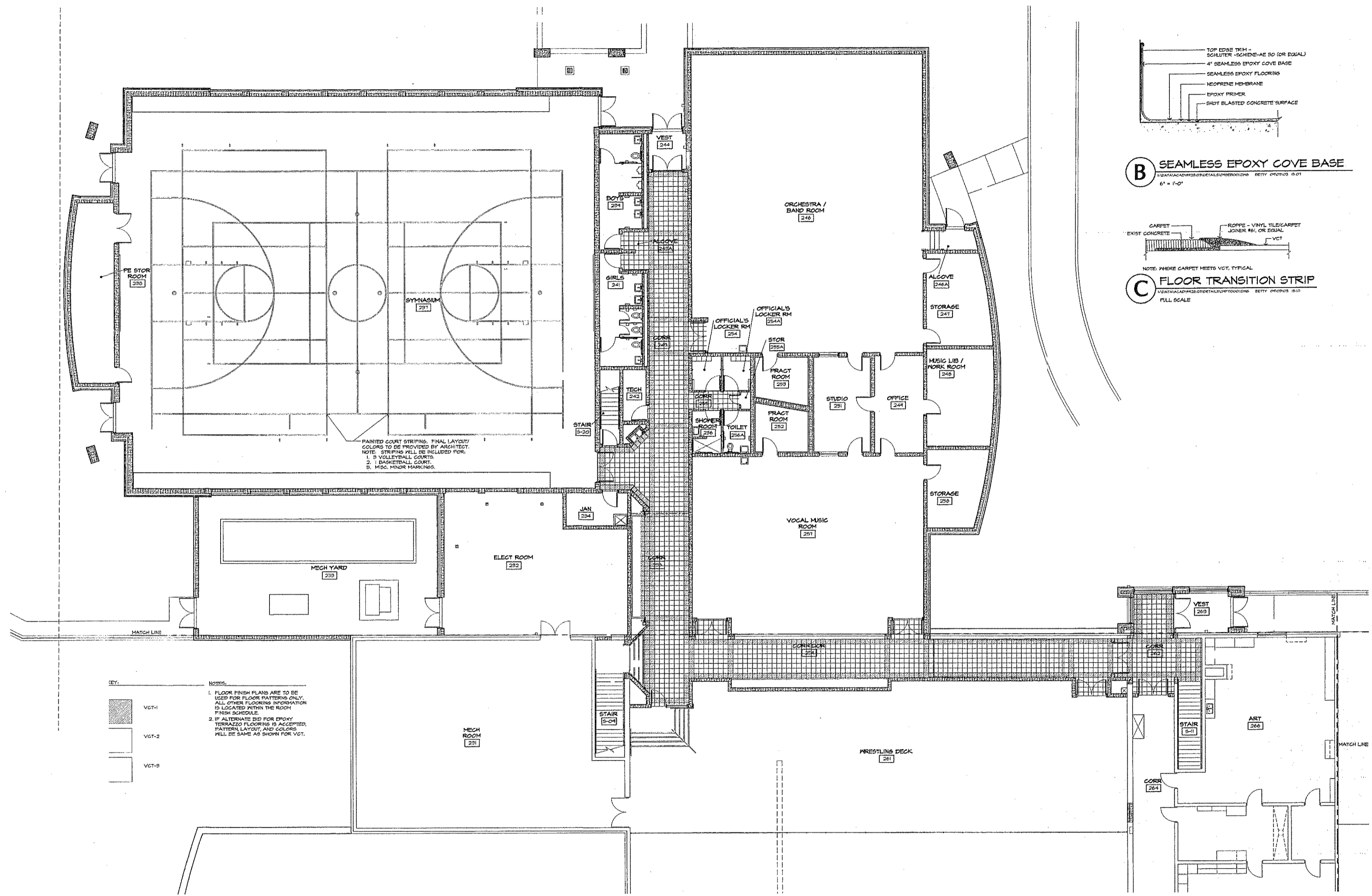
**SHEET**  
**A1.5.1**  
 FIRST FLOOR FINISH PLAN - SOUTHEAST

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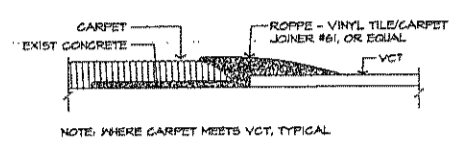


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
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**SHEET A15.2**  
 SECOND FLOOR FINISH PLAN - SOUTHWEST



**B SEAMLESS EPOXY COVE BASE**  
 6\"/>

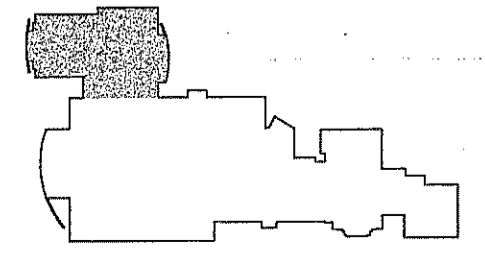


**C FLOOR TRANSITION STRIP**  
 FULL SCALE

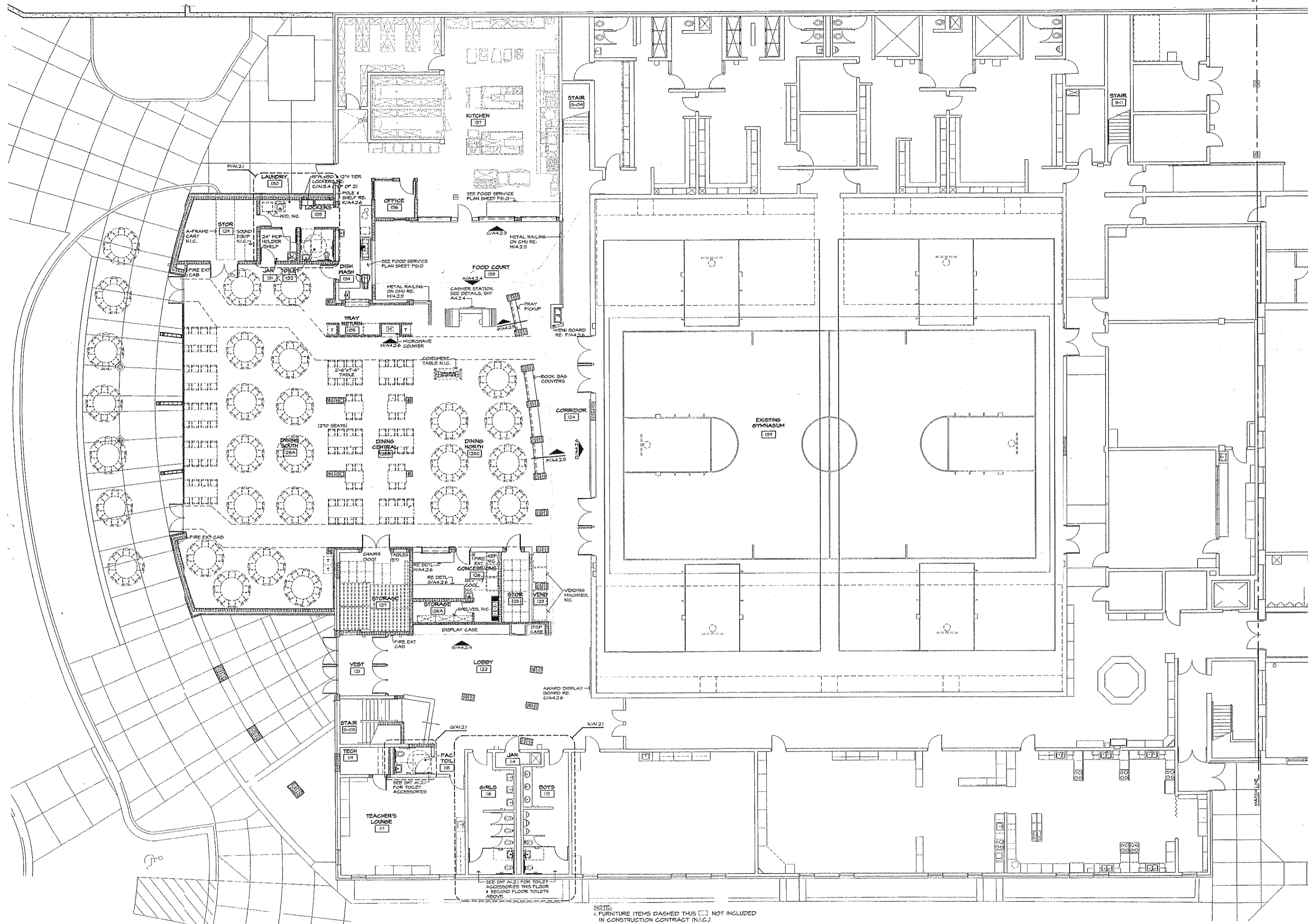
PAINTED COURT STRIPING, FINAL LAYOUT/ COLORS TO BE PROVIDED BY ARCHITECT.  
 NOTE: STRIPING WILL BE INCLUDED FOR:  
 1. VOLLEYBALL COURTS  
 2. BASKETBALL COURT  
 3. MISC. HONR MARKINGS

- NOTES:**
- FLOOR FINISH PLANS ARE TO BE USED FOR FLOOR PATTERNING ONLY. ALL OTHER FLOORING INFORMATION IS LOCATED WITHIN THE ROOM FINISH SCHEDULE.
  - IF ALTERNATE BID FOR EPOXY TERRAZZO FLOORING IS ACCEPTED, PATTERN, LAYOUT, AND COLORS WILL BE SAME AS SHOWN FOR VCT.

**A SECOND FLOOR FINISH PLAN - SOUTHWEST**  
 1/8\"/>

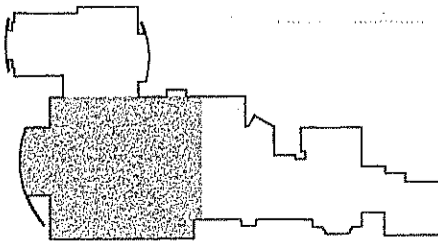


KEY PLAN



NOTE:  
 1. FURNITURE ITEMS DASHED THIS [ ] NOT INCLUDED  
 IN CONSTRUCTION CONTRACT (N.I.C.)

**A** FIRST FLOOR FURNITURE, FIXTURE & EQUIPMENT PLAN - SOUTHEAST  
 1/8" = 1'-0"



KEY PLAN

PROJECT NO 4428.03  
 DATE OCT 2003  
 DRAWN BY  
 REVISION

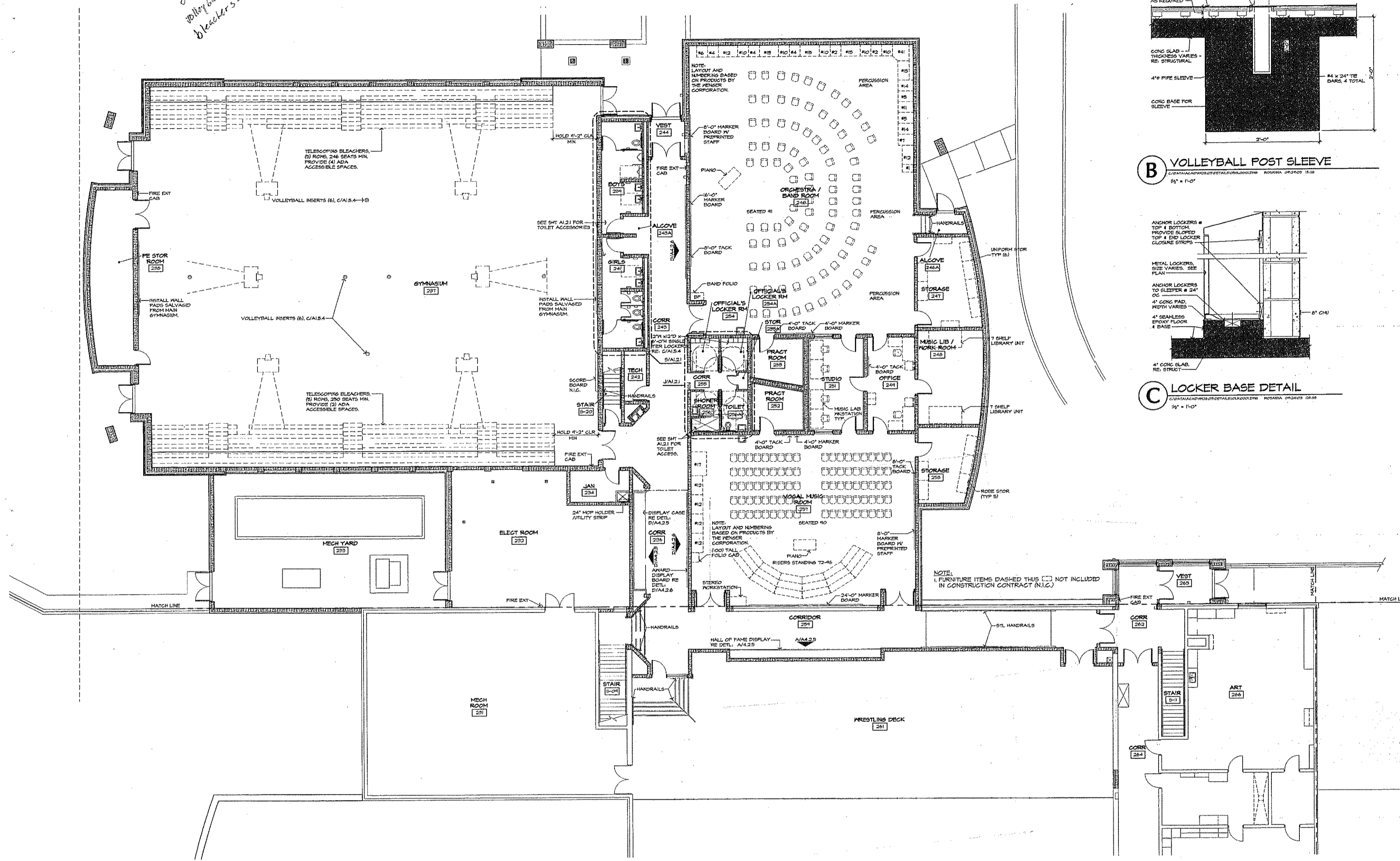
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**Wamego High School Improvements  
 Phase I**  
 Wamego Public Schools - Unified School District 320  
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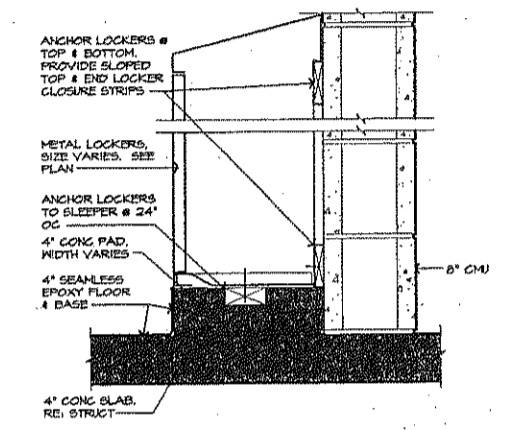
SHEET  
**A15.3**  
 FIRST FLOOR FFE  
 PLAN - SOUTHEAST

82 ft wide  
Volleyball court = 60 ft  
bleachers = 5' deep



**A** SECOND FLOOR FURNITURE, FIXTURE & EQUIPMENT PLAN - SOUTHWEST  
1/8" = 1'-0"

**B** VOLLEYBALL POST SLEEVE  
1/8" = 1'-0"



**C** LOCKER BASE DETAIL  
1/8" = 1'-0"



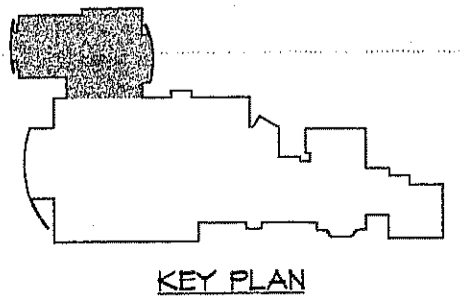
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DATE OCT 2003  
DRAWN BY  
REVISION

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**Wamego High School Improvements**  
**Phase I**  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**A15.4**  
SECOND FLOOR FURNITURE PLAN - SOUTHWEST



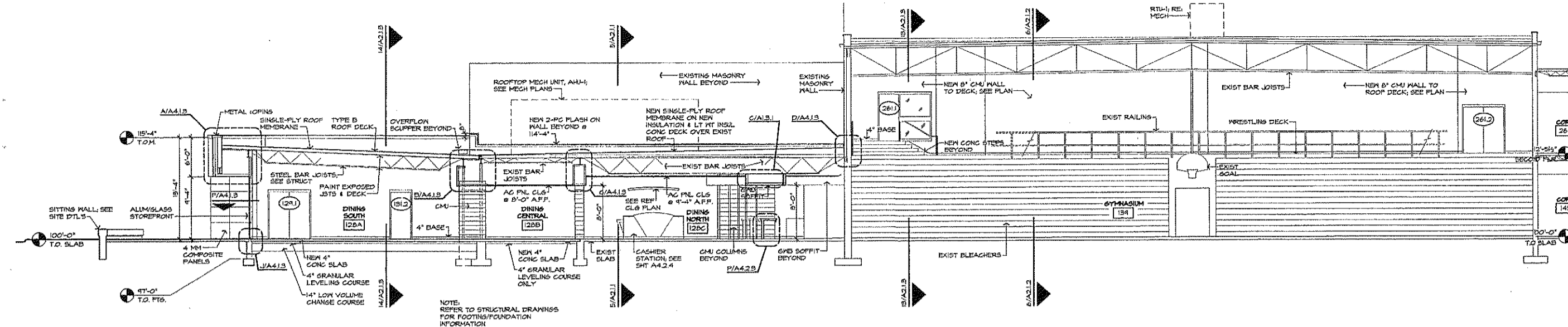
KEY PLAN



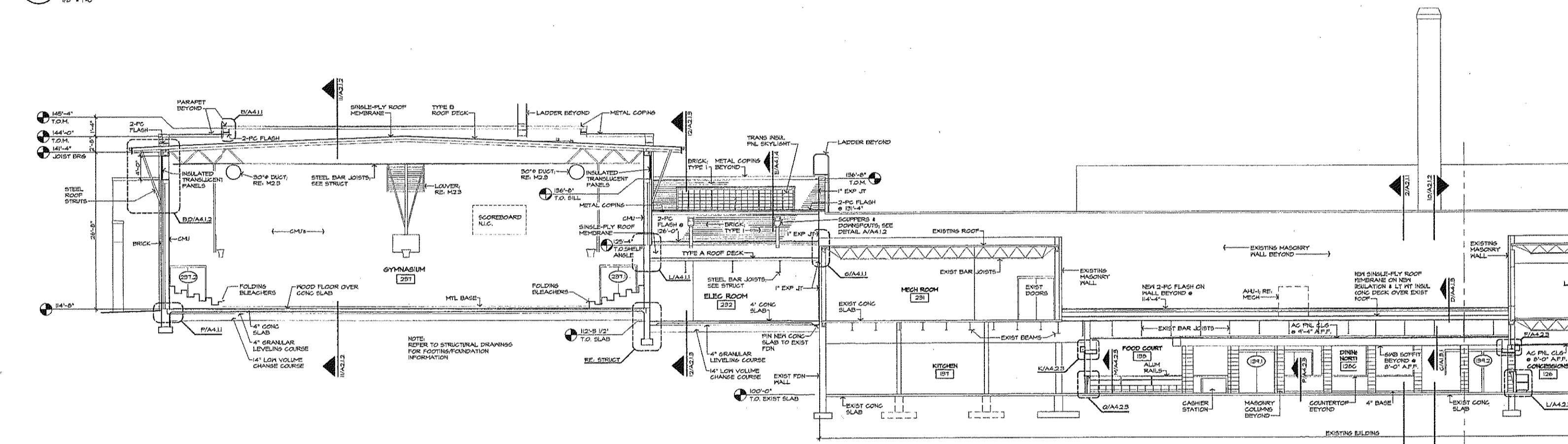
**The Ken Ebert Design Group**  
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 Wamego, Kansas 66560  
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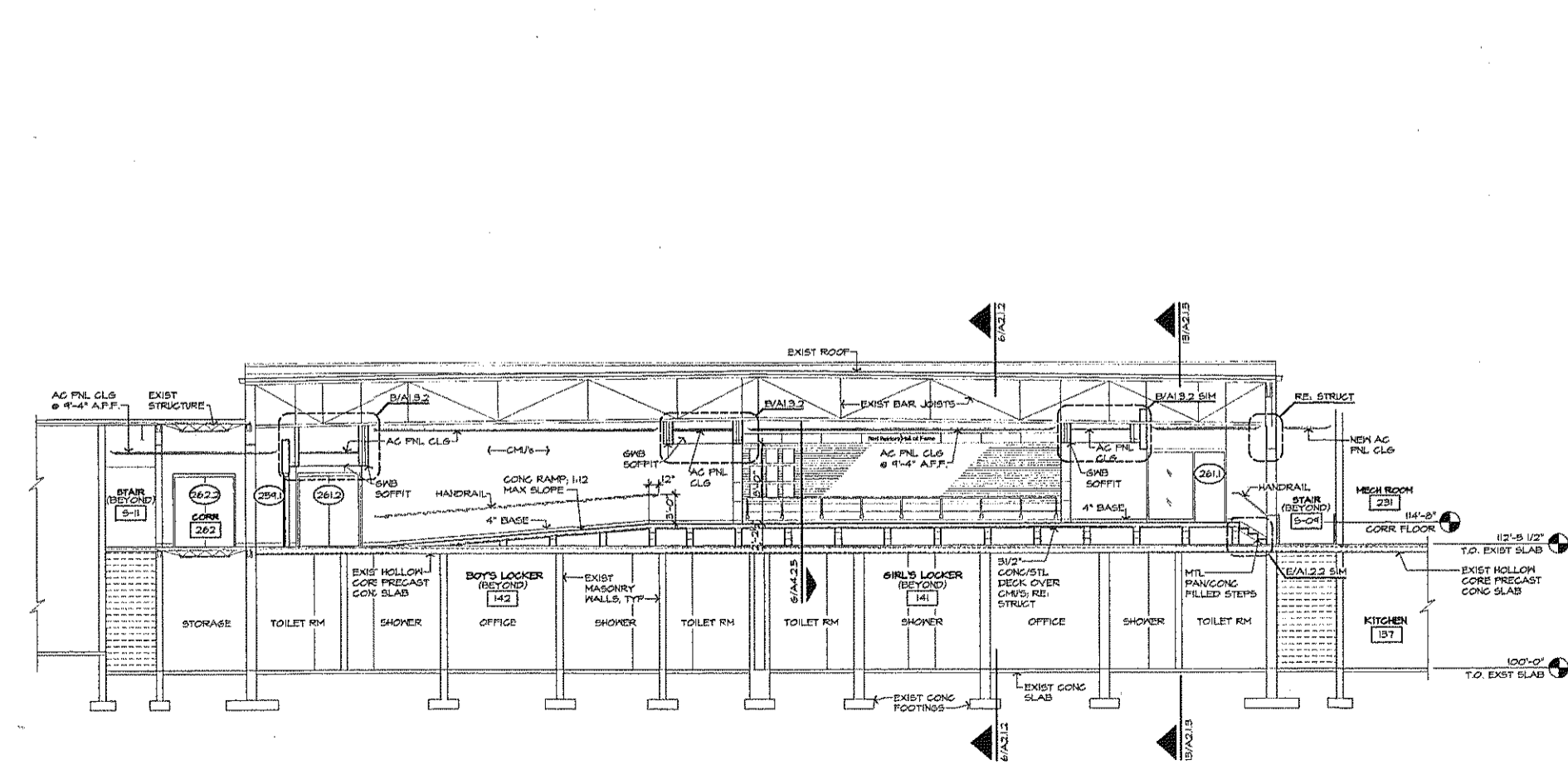
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547



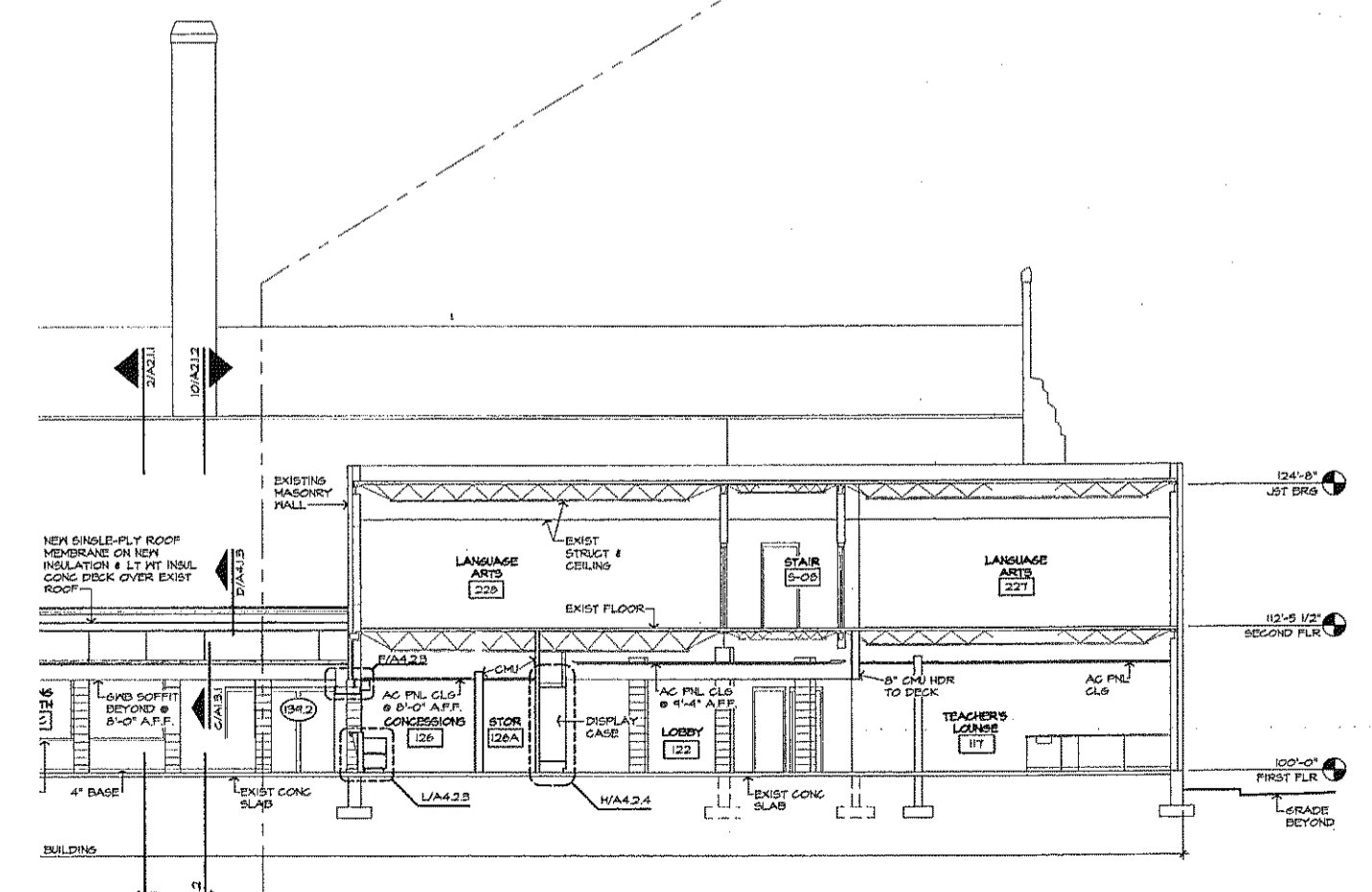
**A** SECTION 2  
 1/8" = 1'-0"



**B** SECTION 5  
 1/8" = 1'-0"



**C** SECTION 15  
 1/8" = 1'-0"



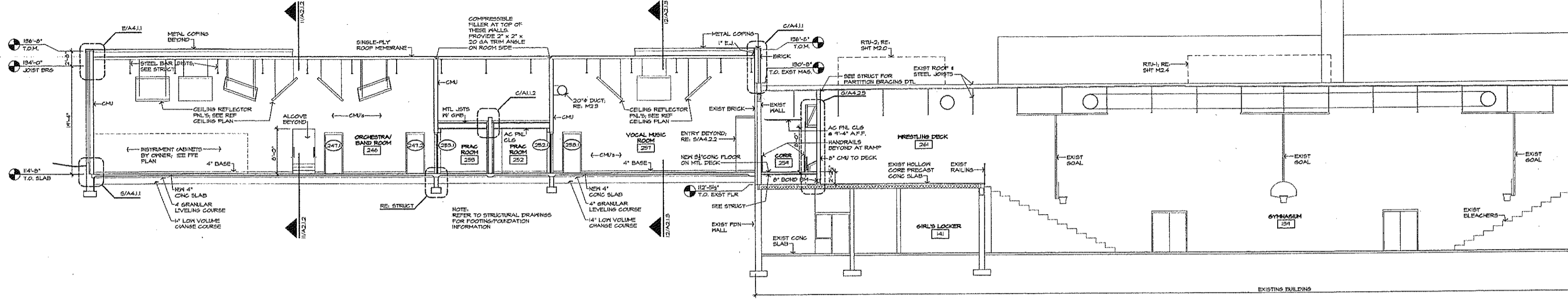
**D** SECTION 5 (CONT)  
 1/8" = 1'-0"

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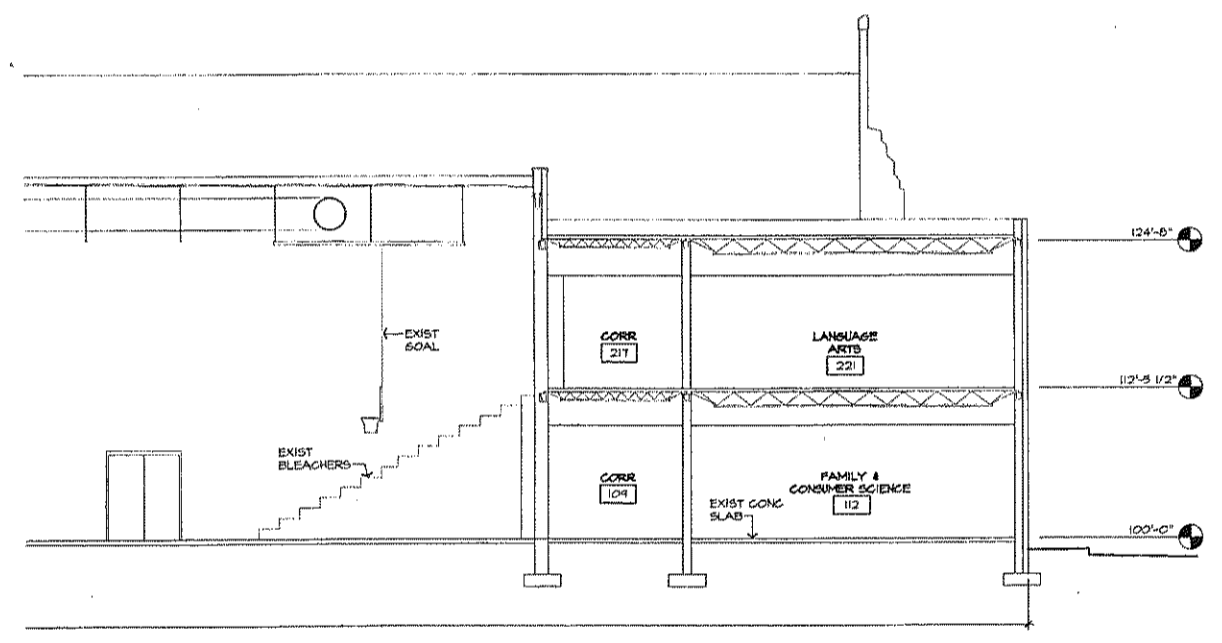


**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
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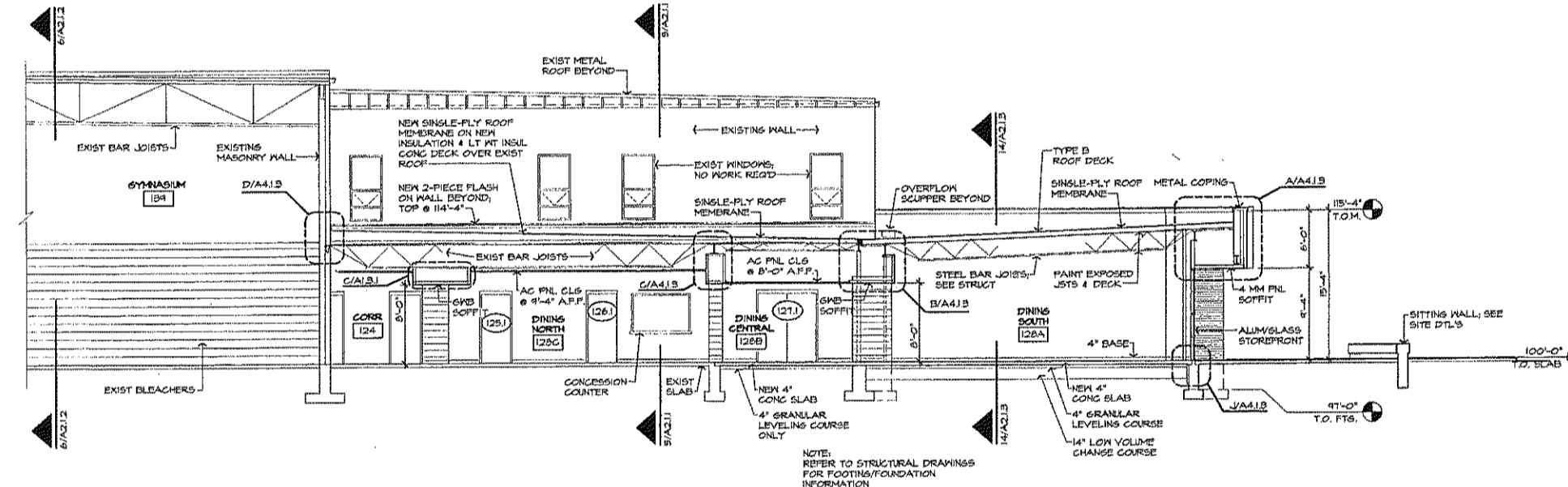
**SHEET**  
**A2.1.2**  
 BUILDING SECTIONS



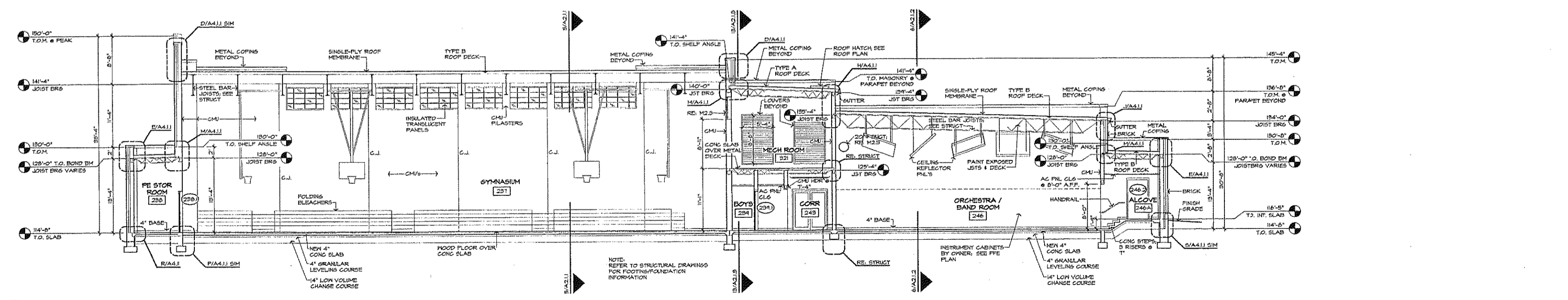
**A** SECTION 6  
 1/8" = 1'-0"



**B** SECTION 6 (CONT)  
 1/8" = 1'-0"



**C** SECTION 10  
 1/8" = 1'-0"

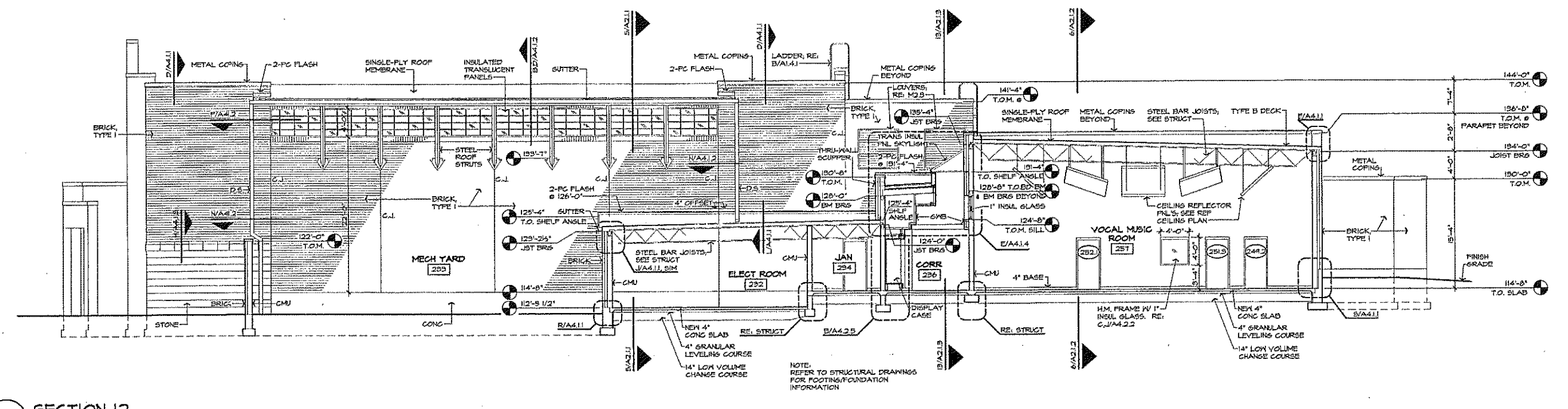


**D** SECTION 11  
 1/8" = 1'-0"

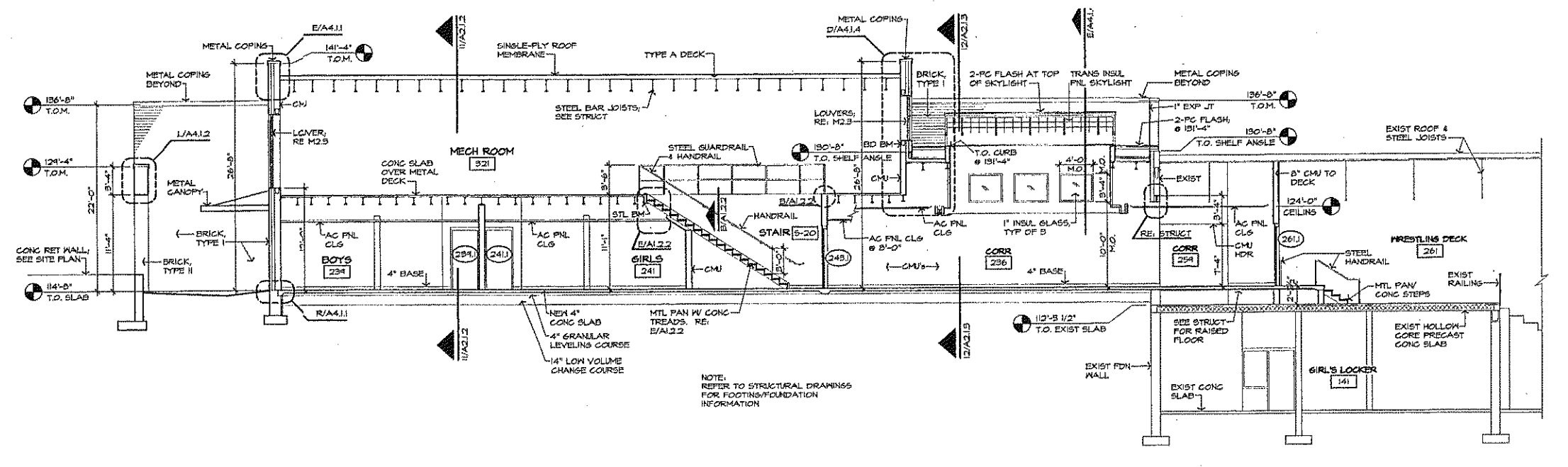
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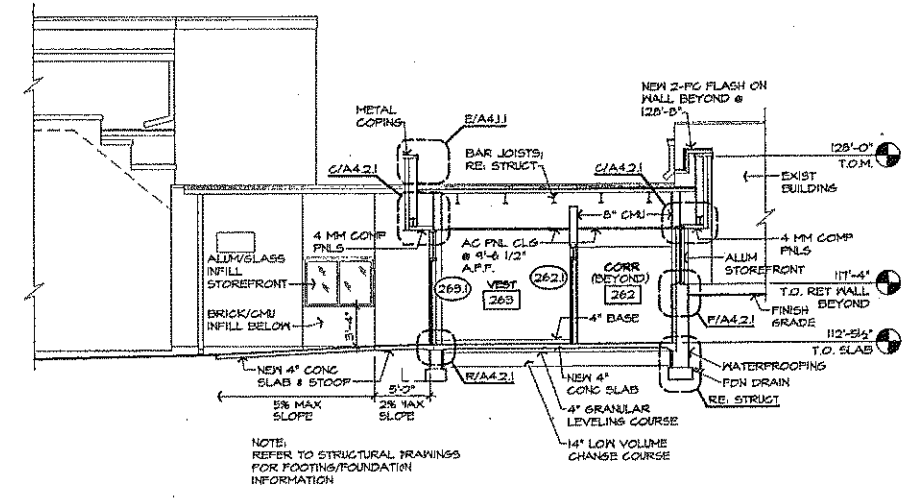
Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547



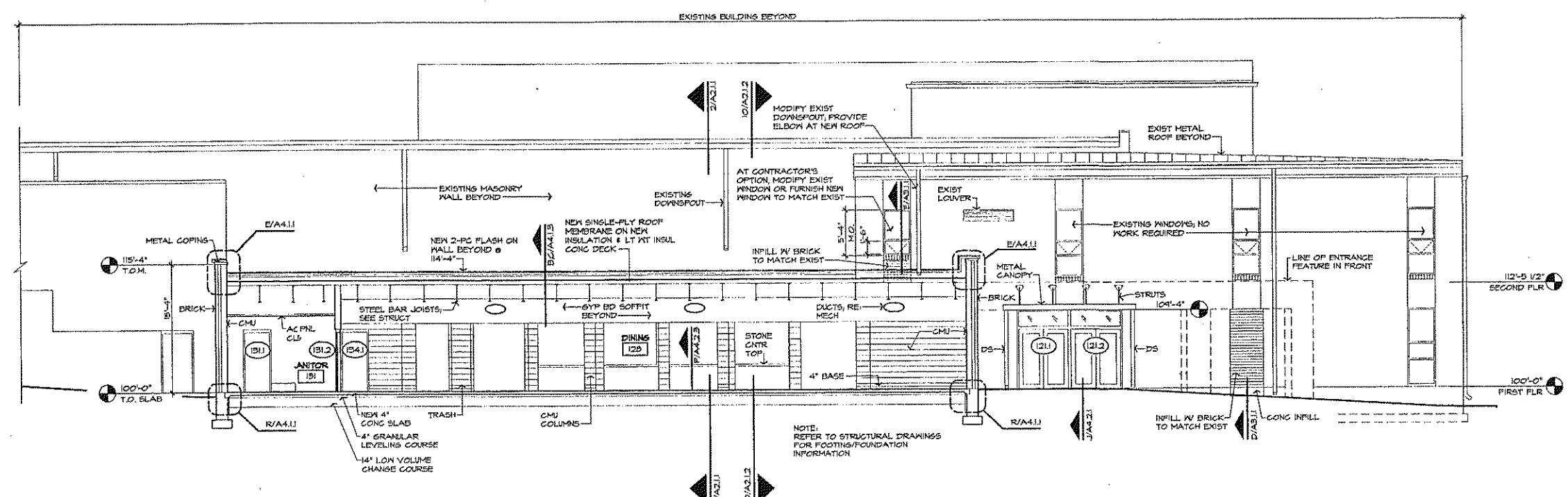
**A** SECTION 12  
 1/8" = 1'-0"



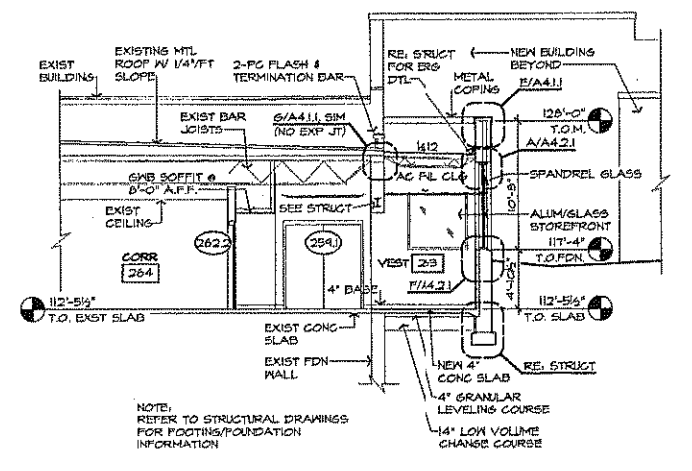
**B** SECTION 13  
 1/8" = 1'-0"



**C** SECTION 16  
 1/8" = 1'-0"



**D** SECTION 14  
 1/8" = 1'-0"



**E** SECTION 17  
 1/8" = 1'-0"

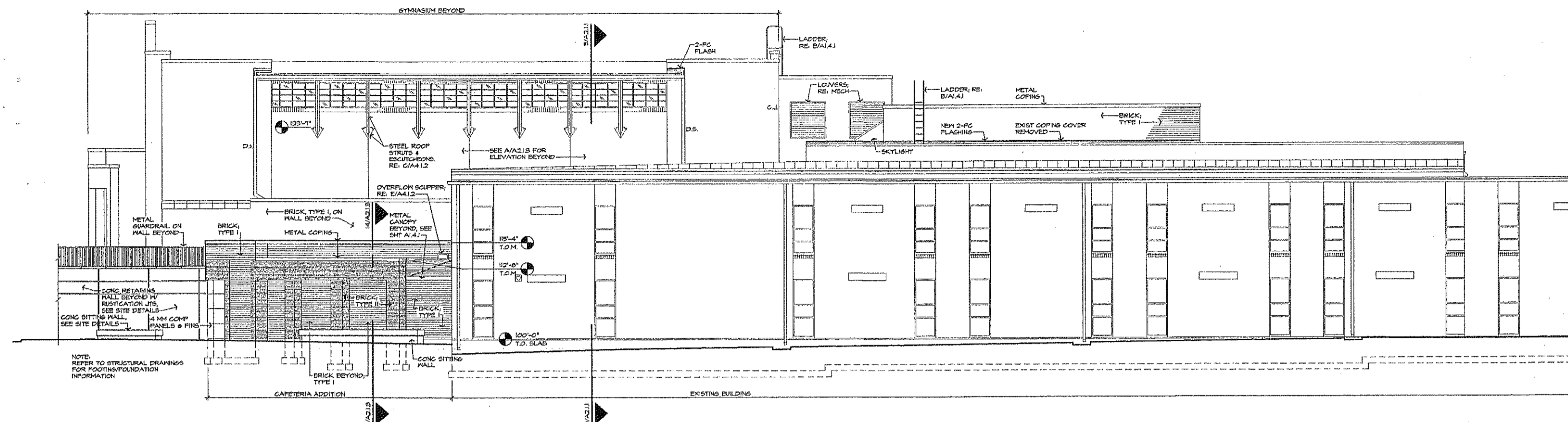


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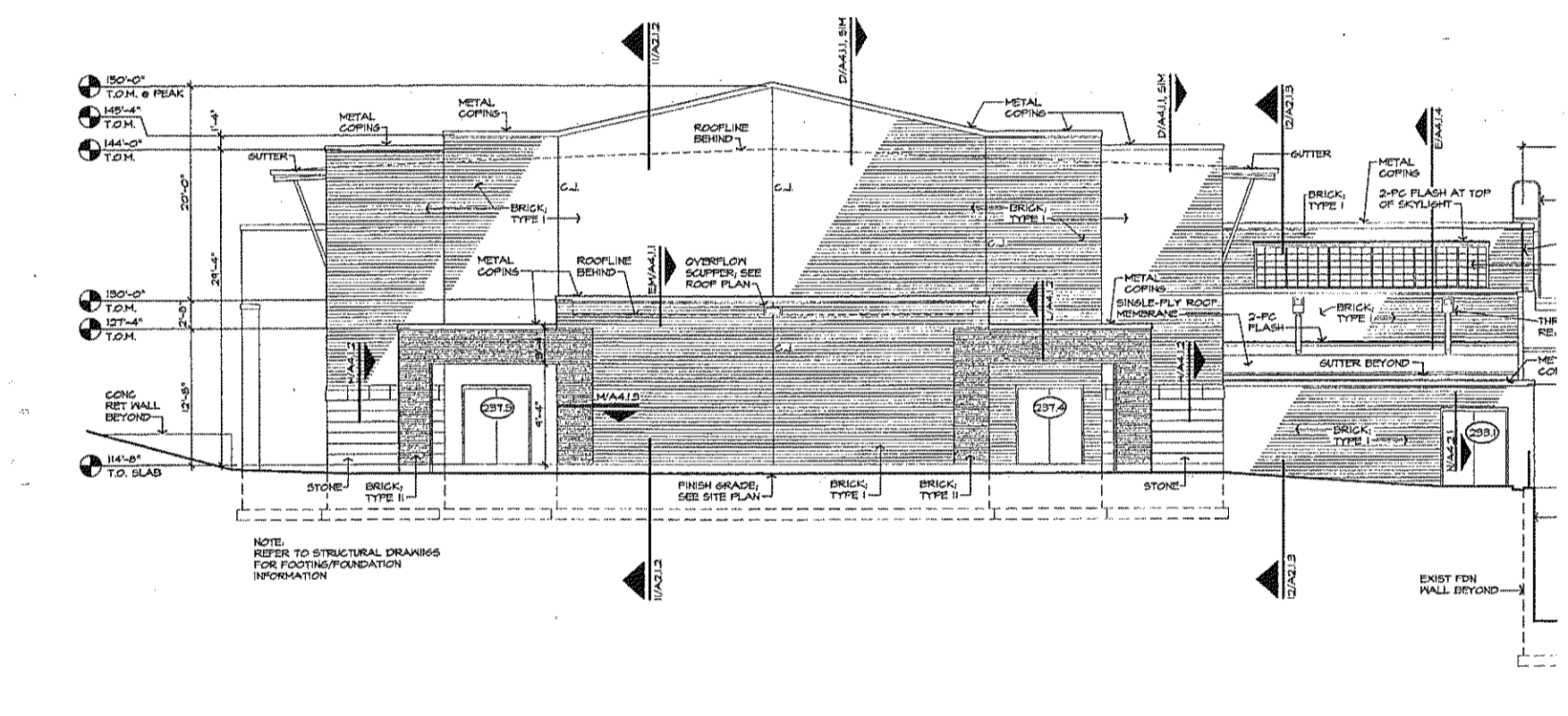


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

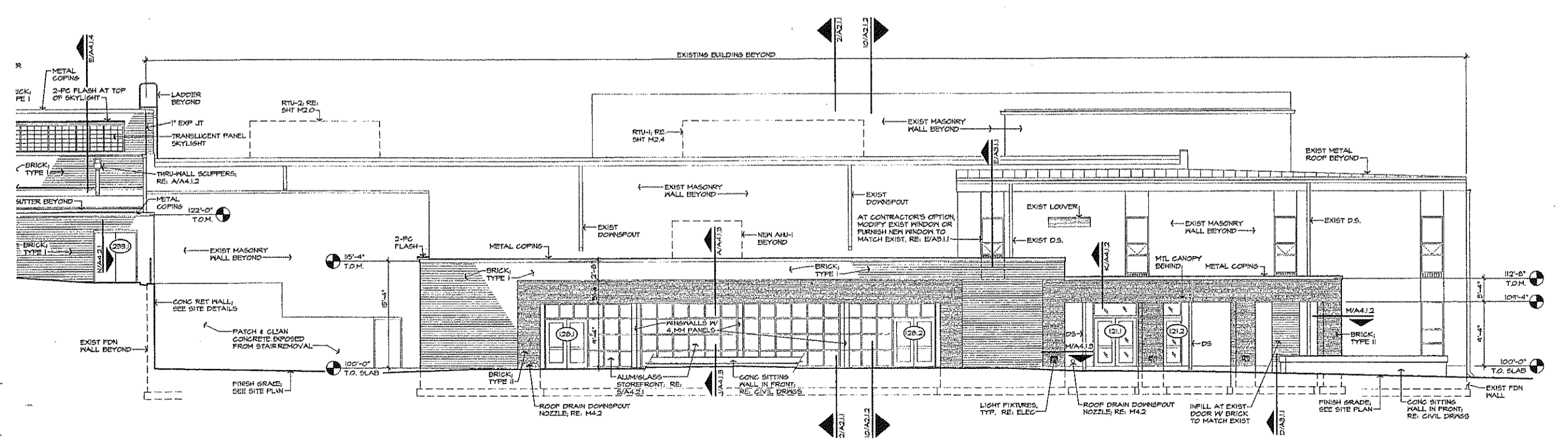
**SHEET A3.11**  
 EXTERIOR ELEVATIONS



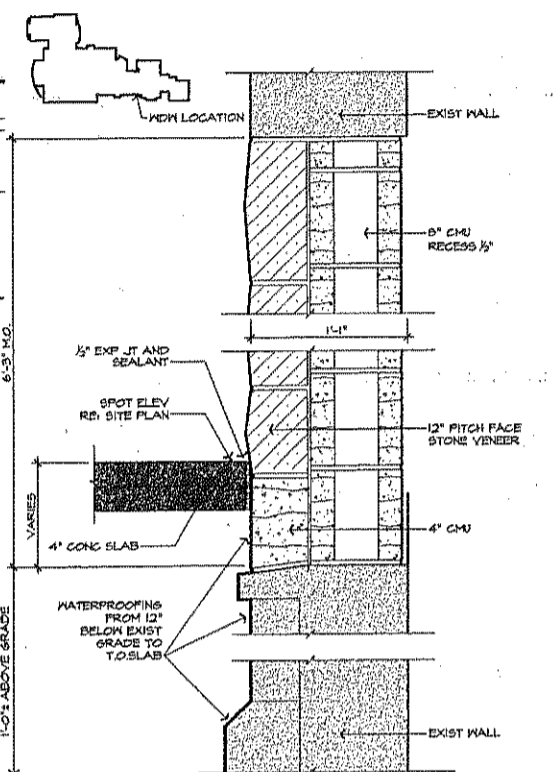
**A EAST ELEVATION**  
 1/8" = 1'-0"



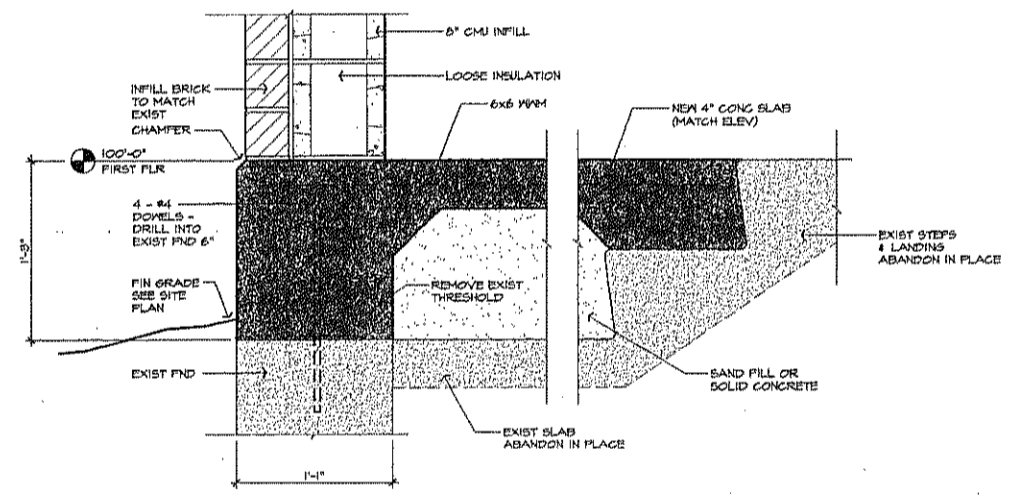
**B SOUTH ELEVATION**  
 1/8" = 1'-0"



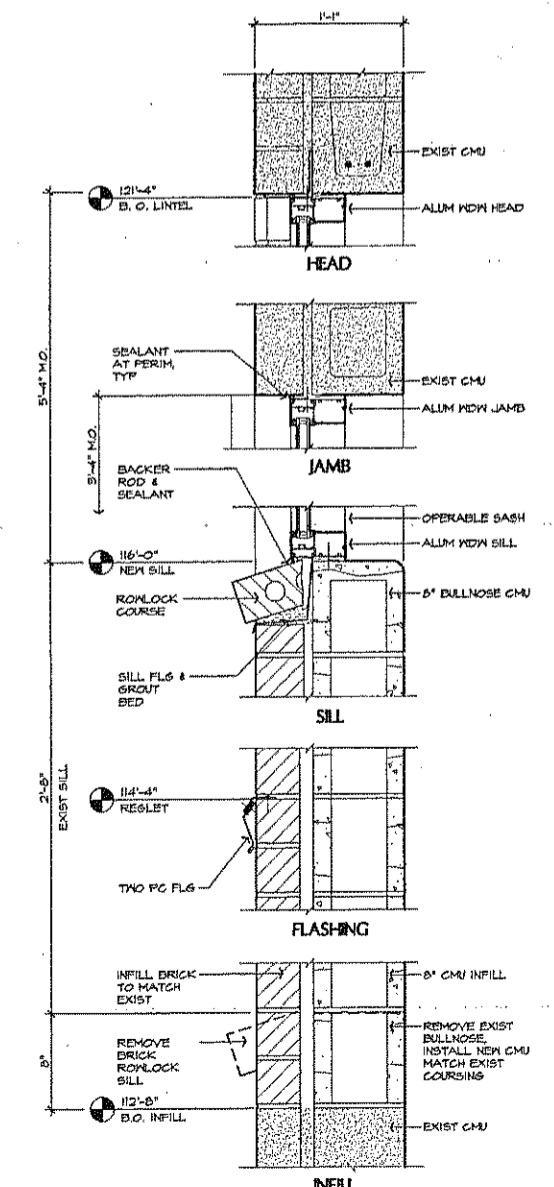
**C SOUTH ELEVATION (CONT)**  
 1/8" = 1'-0"



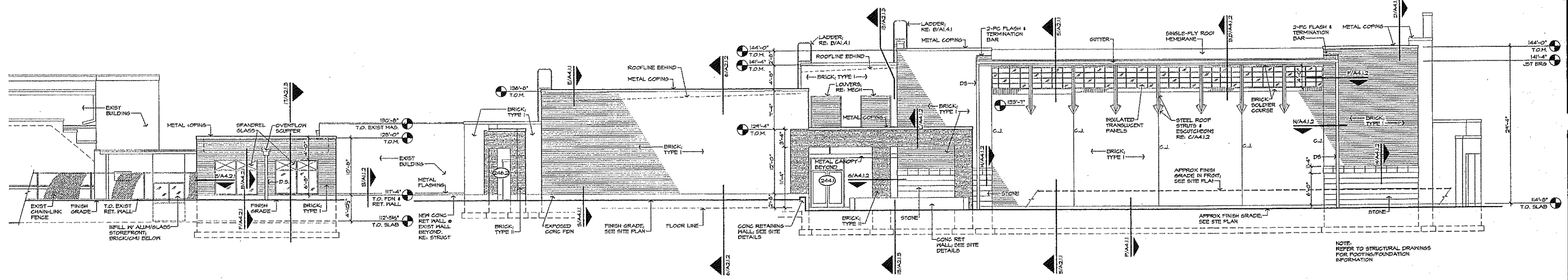
**F WINDOW INFILL DETAIL @ RAMP**  
 1/4" = 1'-0"



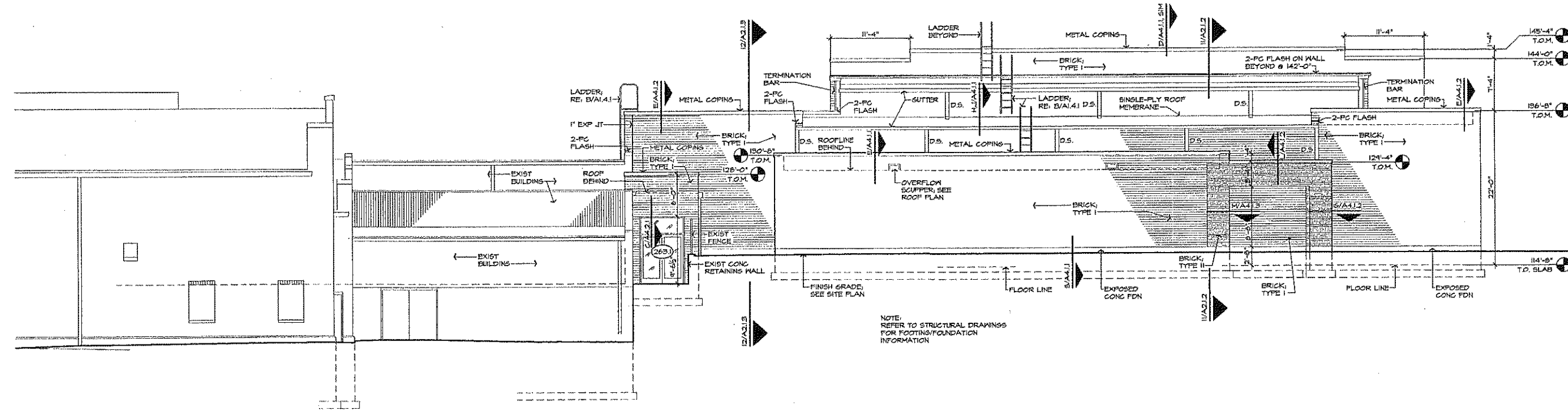
**D MASONRY INFILL @ REMOVED DOOR**  
 1/4" = 1'-0"



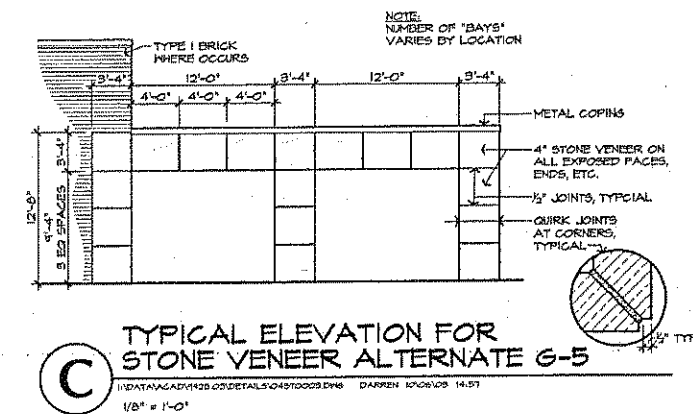
**E EXISTING WINDOW INFILL DETAIL**  
 1/4" = 1'-0"



**A** WEST ELEVATION  
1/8" = 1'-0"



**B** NORTH ELEVATION  
1/8" = 1'-0"



**C** TYPICAL ELEVATION FOR STONE VENEER ALTERNATE G-5  
1/8" = 1'-0"

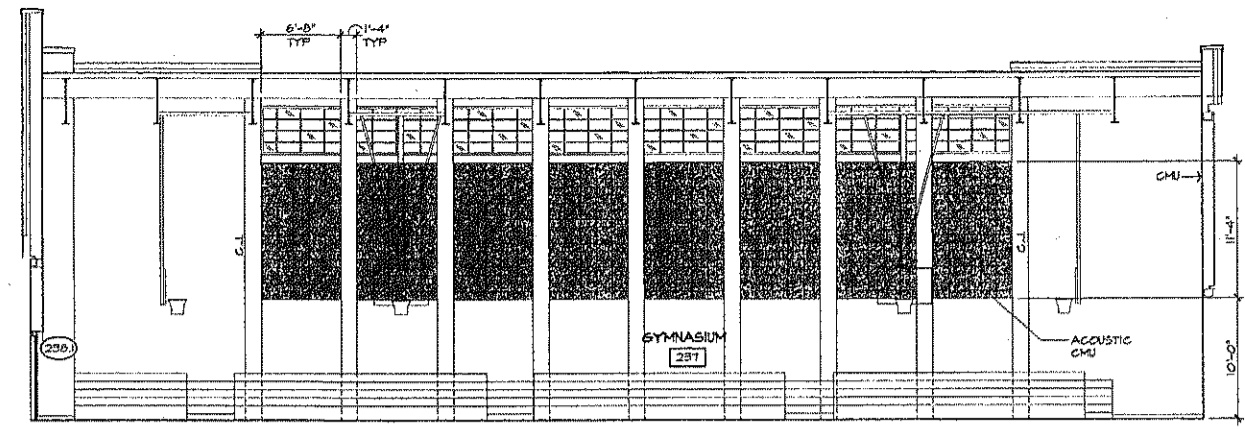
PROJECT NO 4429.03  
DATE OCT 2008  
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REVISION

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Architects and Planning Consultants  
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Manhattan, Kansas 66502  
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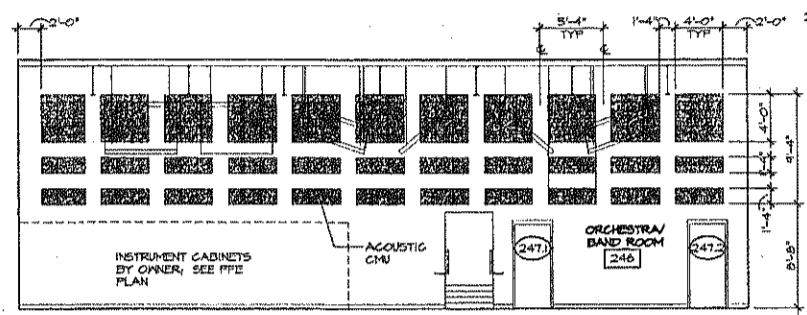


Wamego High School Improvements  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

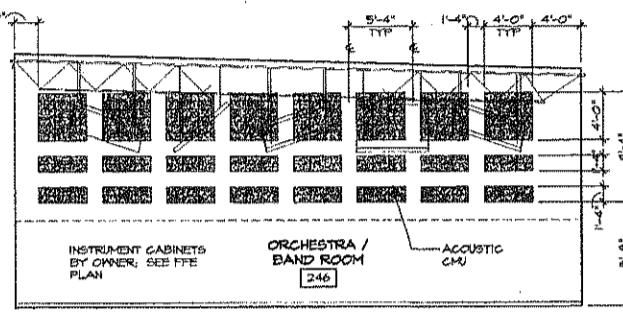
SHEET  
A3.1.2  
EXTERIOR ELEVATIONS



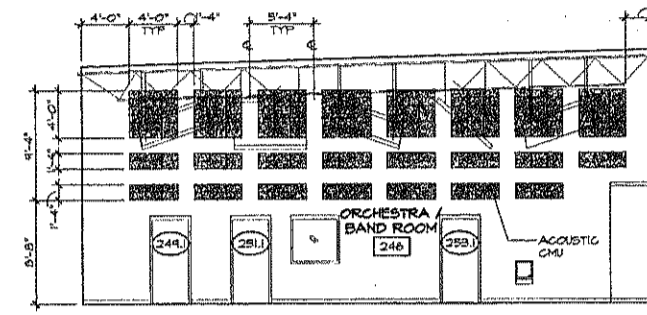
**A WEST ELEVATION (EAST SMLR)**  
1:\DATA\A3.2.1\PROJ\WLEV0324.DWG KENT 04/03/03 14:30  
 1/8" = 1'-0"



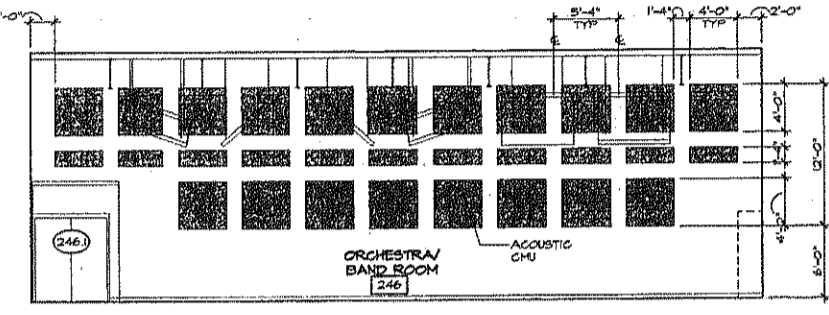
**D NORTH ELEVATION**  
1:\DATA\A3.2.1\PROJ\NLEV0324.DWG KENT 04/03/03 14:30  
 1/8" = 1'-0"



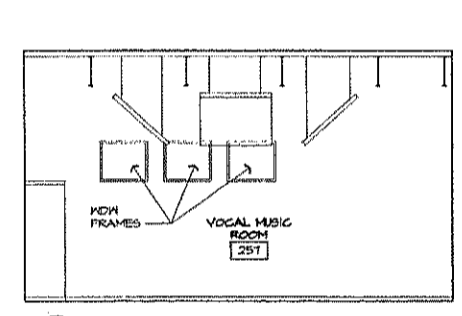
**E WEST ELEVATION**  
1:\DATA\A3.2.1\PROJ\WLEV0324.DWG KENT 04/03/03 14:30  
 1/8" = 1'-0"



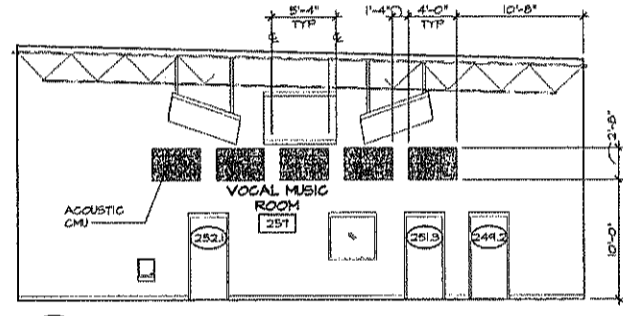
**F EAST ELEVATION**  
1:\DATA\A3.2.1\PROJ\ELEV0324.DWG KENT 04/03/03 14:31  
 1/8" = 1'-0"



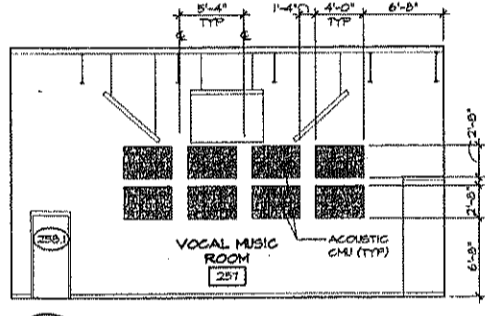
**G SOUTH ELEVATION**  
1:\DATA\A3.2.1\PROJ\SLEV0324.DWG KENT 04/03/03 14:31  
 1/8" = 1'-0"



**H SOUTH ELEVATION**  
1:\DATA\A3.2.1\PROJ\SLEV0325.DWG KENT 10/03/03 10:14  
 1/8" = 1'-0"



**J WEST ELEVATION**  
1:\DATA\A3.2.1\PROJ\WLEV0325.DWG KENT 10/03/03 10:14  
 1/8" = 1'-0"



**K NORTH ELEVATION**  
1:\DATA\A3.2.1\PROJ\NLEV0325.DWG KENT 10/03/03 10:14  
 1/8" = 1'-0"

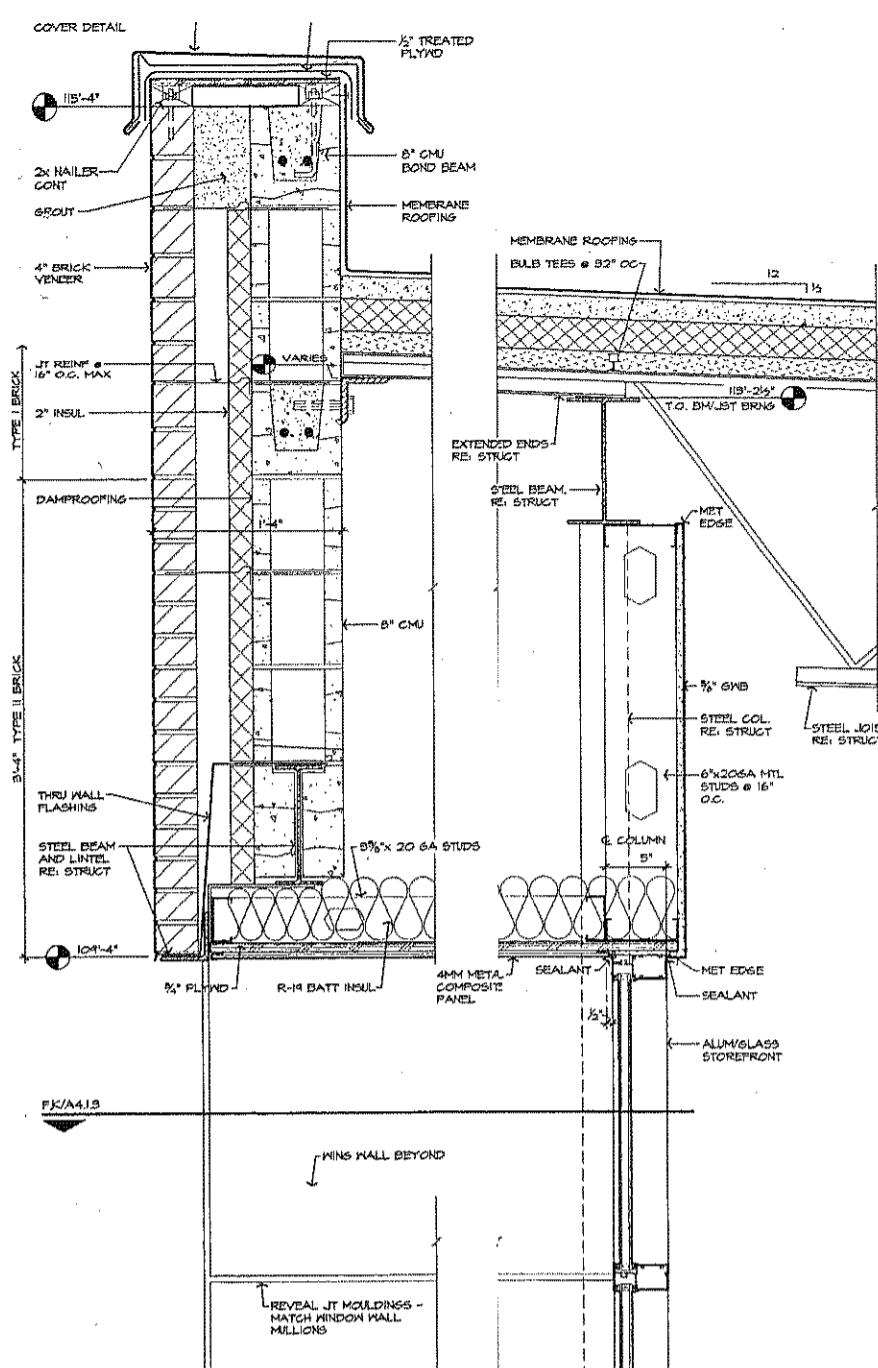
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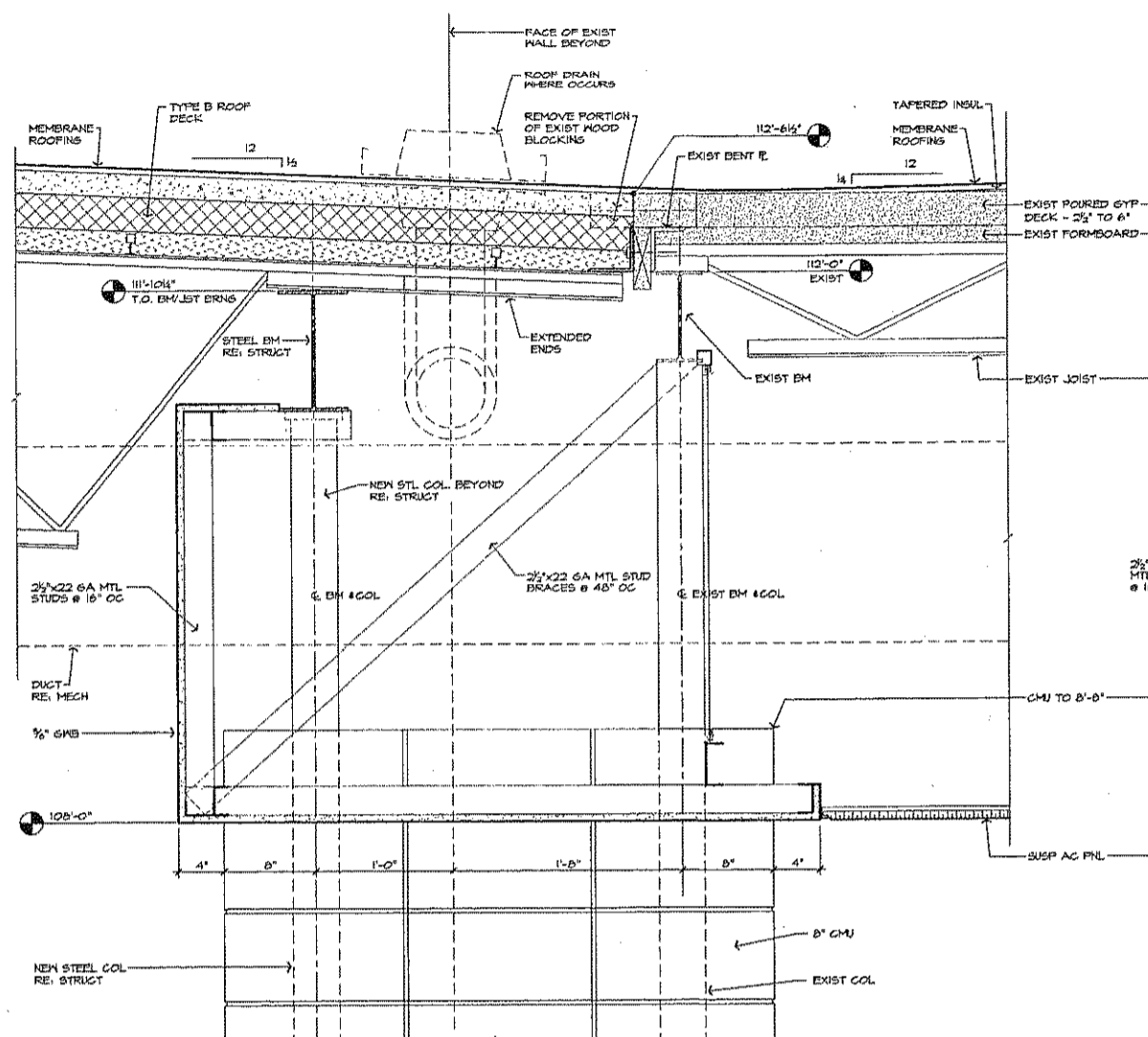
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

1:\DATA\A3.2.1\PROJ\WLEV0324.DWG KENT 04/03/03 14:30

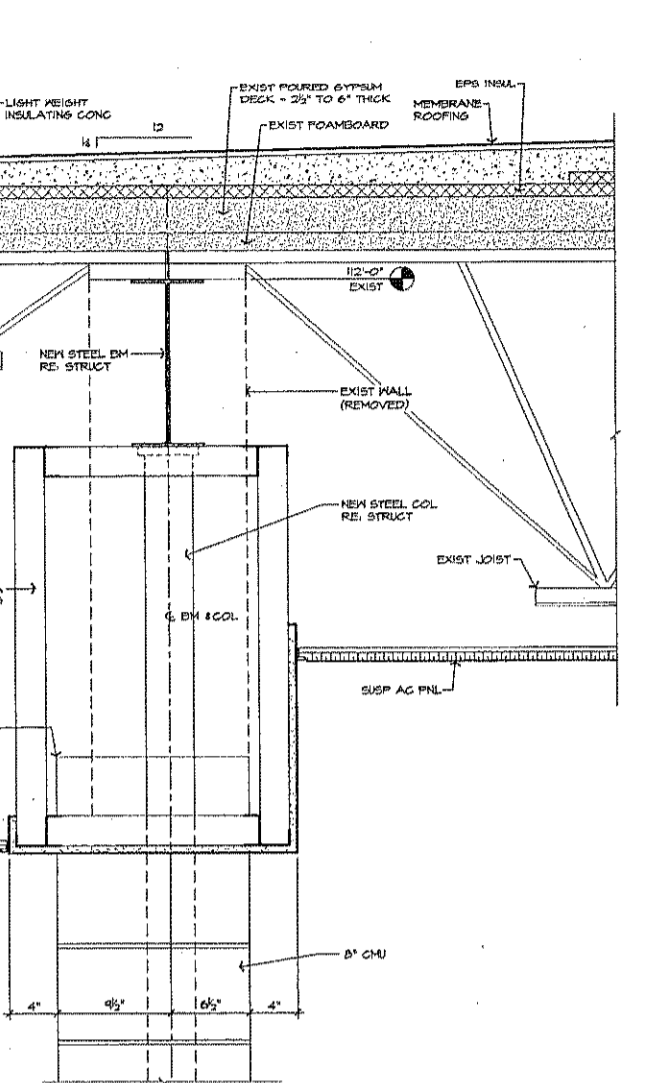




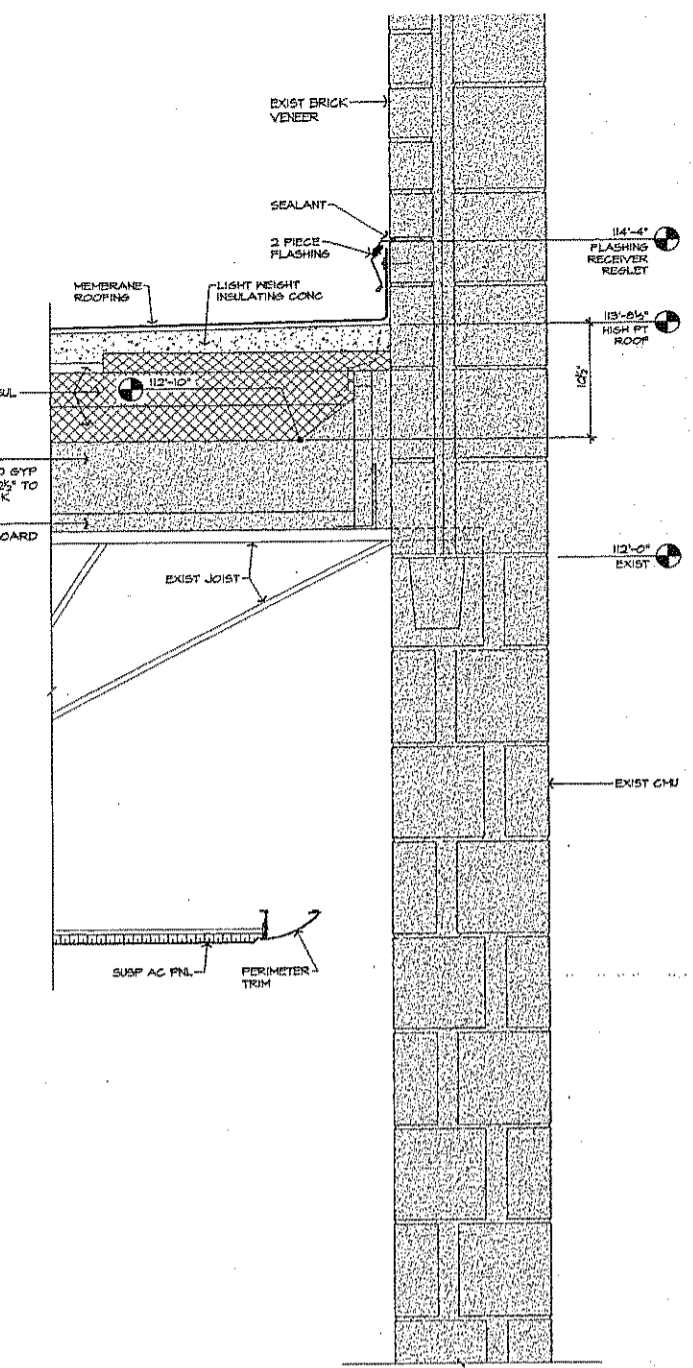
**A** DETAIL  
1/4\"/>



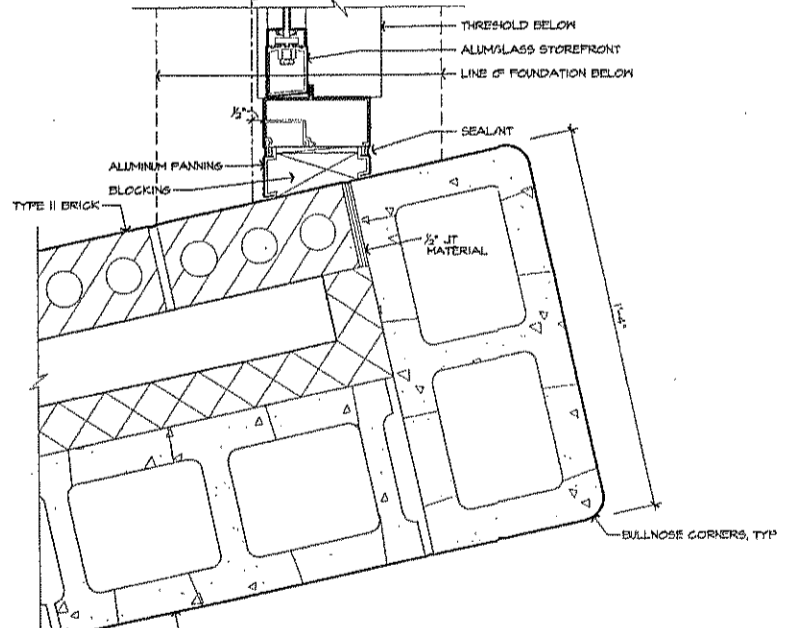
**B** SOFFIT DETAIL  
1/4\"/>



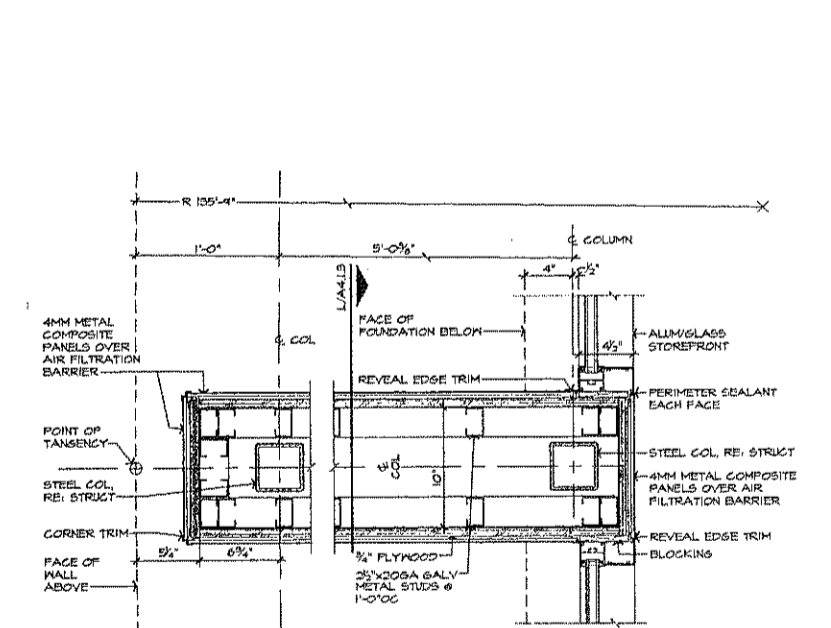
**C** SOFFIT DETAIL  
1/4\"/>



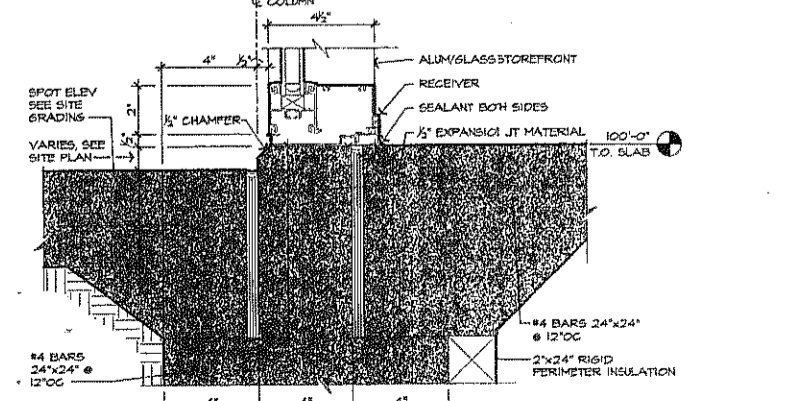
**D** DETAIL  
1/4\"/>



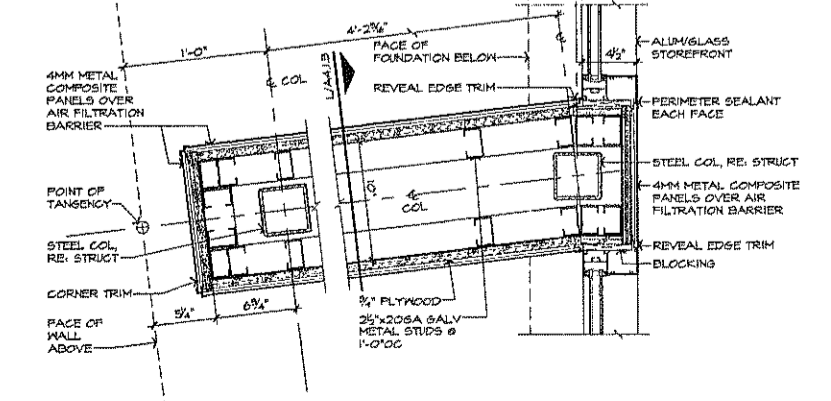
**E** STOREFRONT JAMB  
3\"/>



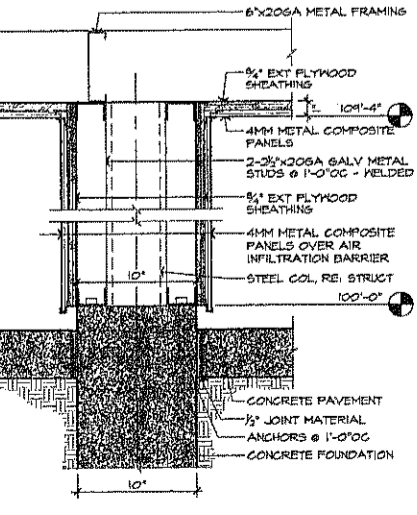
**F** WING WALL PLAN DETAIL  
1/4\"/>



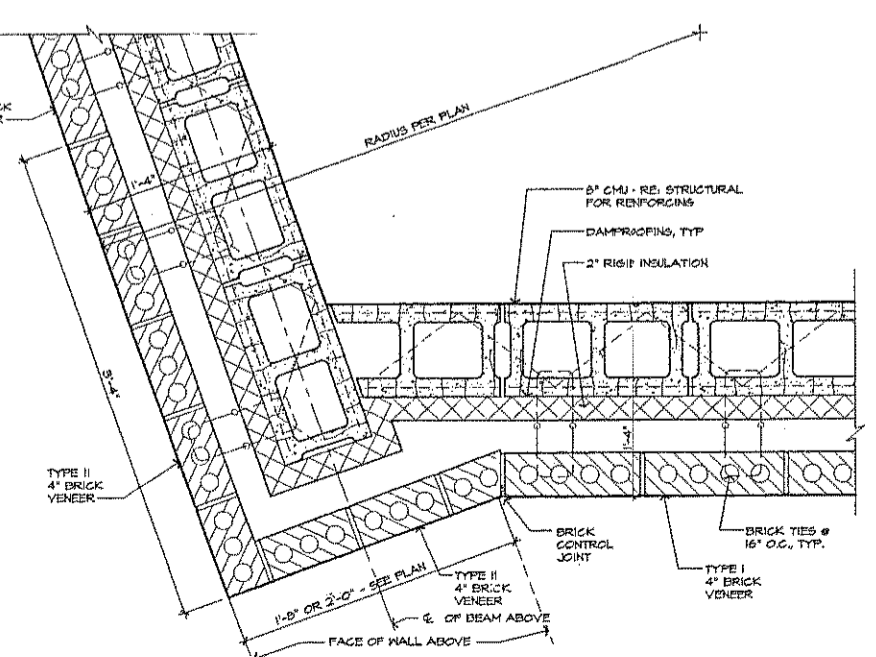
**J** STOREFRONT SILL DETAIL  
3\"/>



**K** WING WALL PLAN DETAIL  
1/4\"/>



**L** WING-WALL DETAIL  
1/4\"/>



**M** CORNER DETAIL  
1/4\"/>

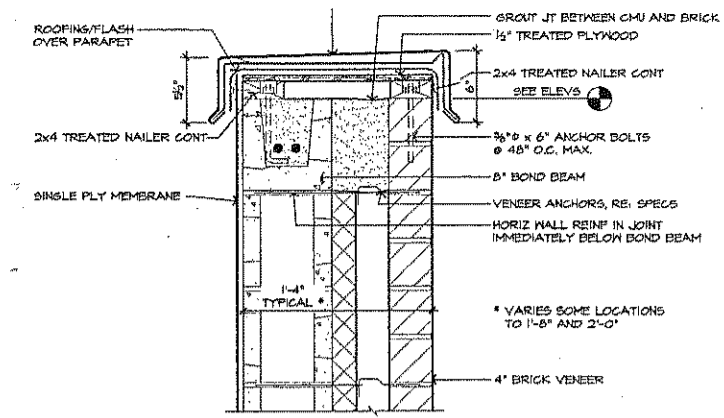
PROJECT NO 4426.03  
 DATE OCT 2003  
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 REVISION

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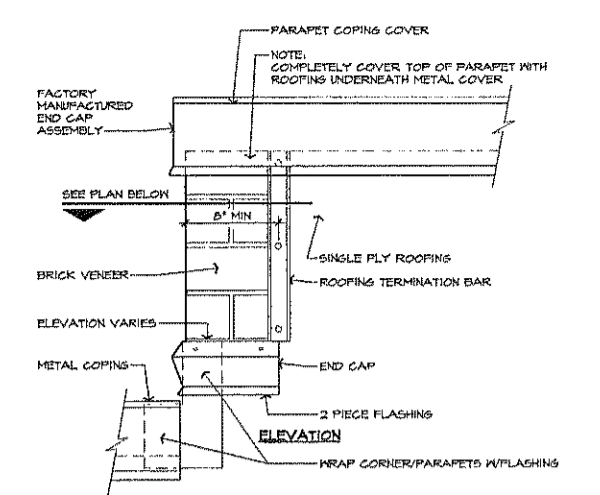


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

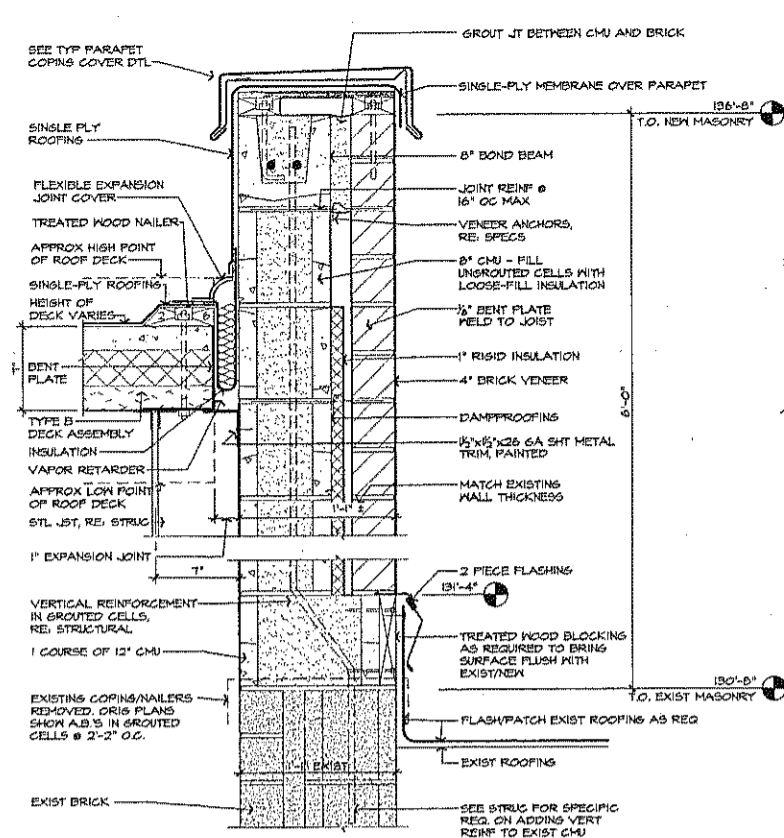
SHEET  
**A4.13**  
 EXTERIOR DETAILS



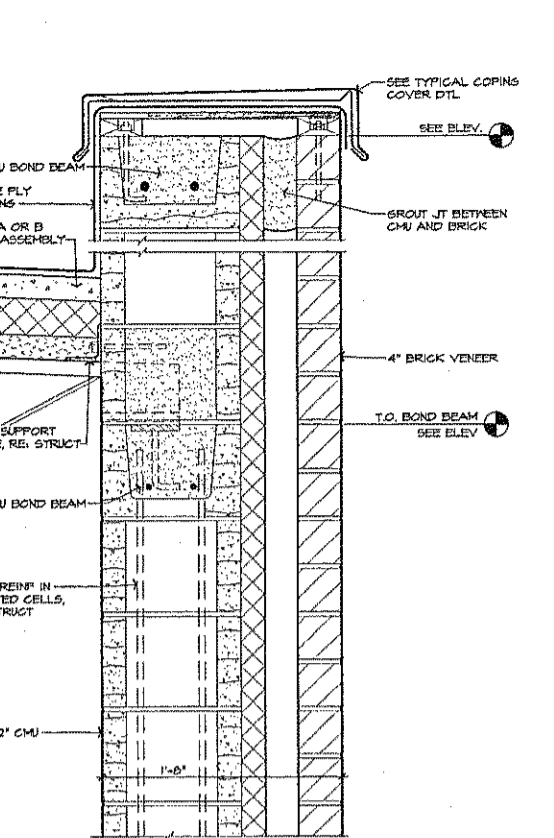
**A TYPICAL PARAPET COPING COVER DETAIL**  
1/2" = 1'-0"



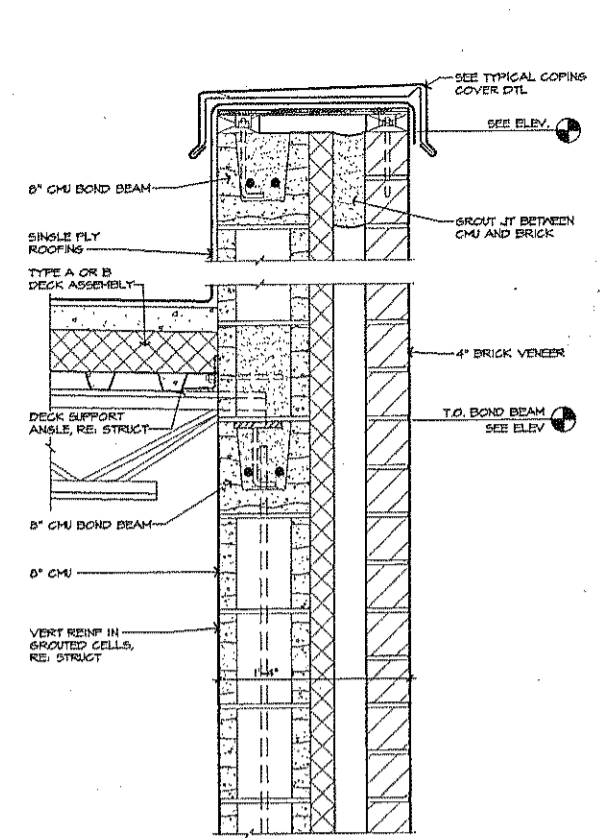
**B PARAPET TERMINATION DETAILS**  
1/2" = 1'-0"



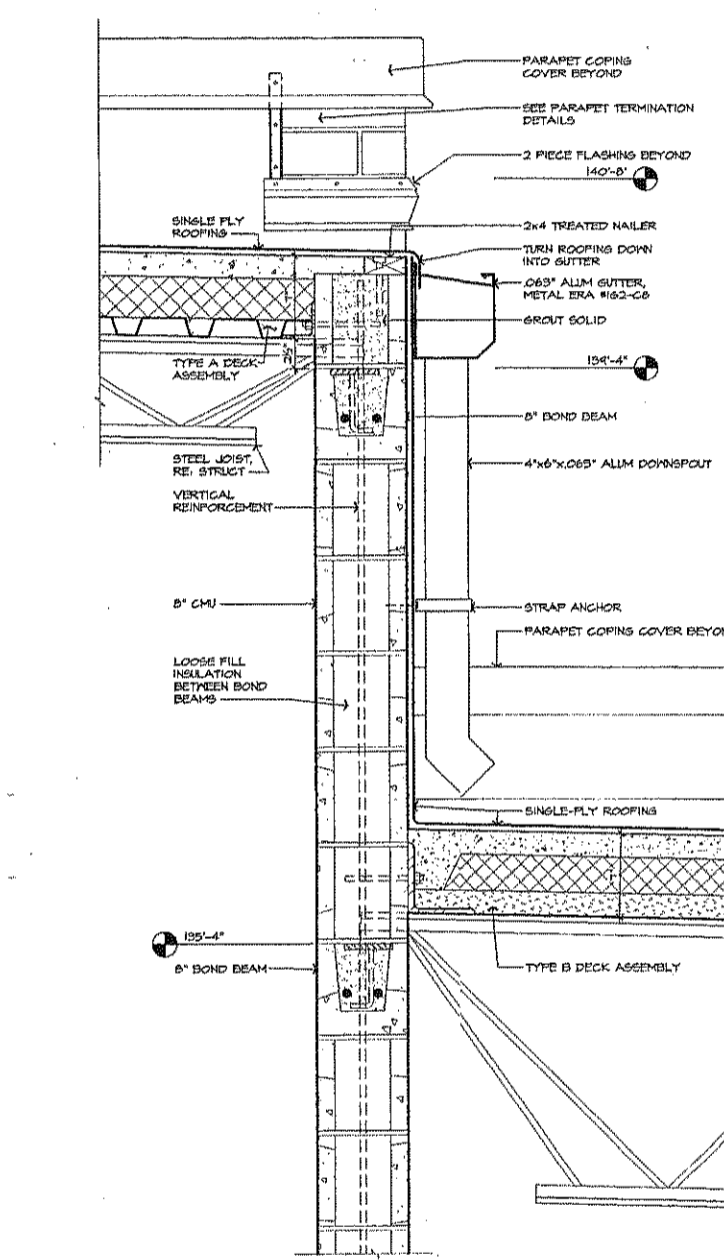
**C WALL DETAIL**  
1/2" = 1'-0"



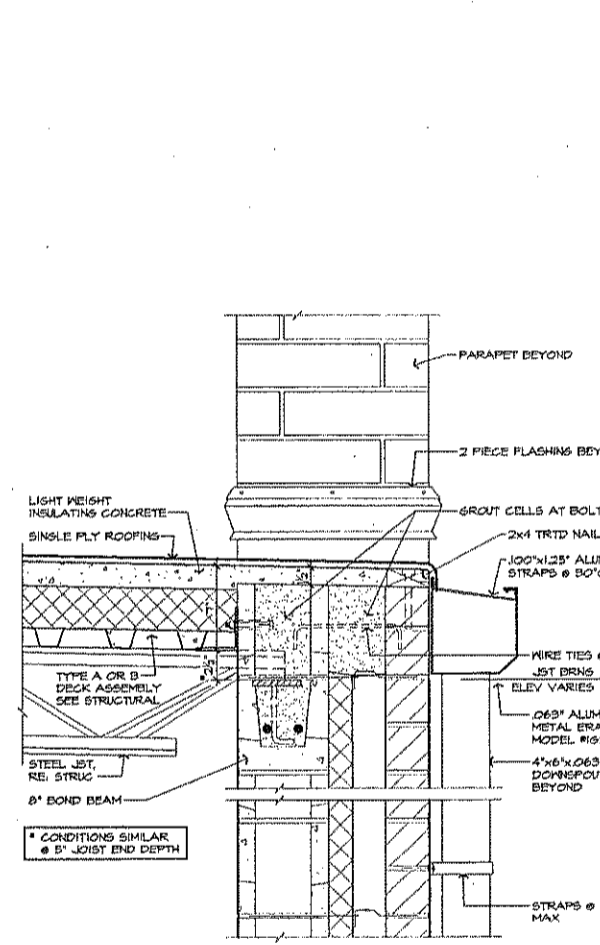
**D PARAPET WALL DETAIL**  
1/2" = 1'-0"



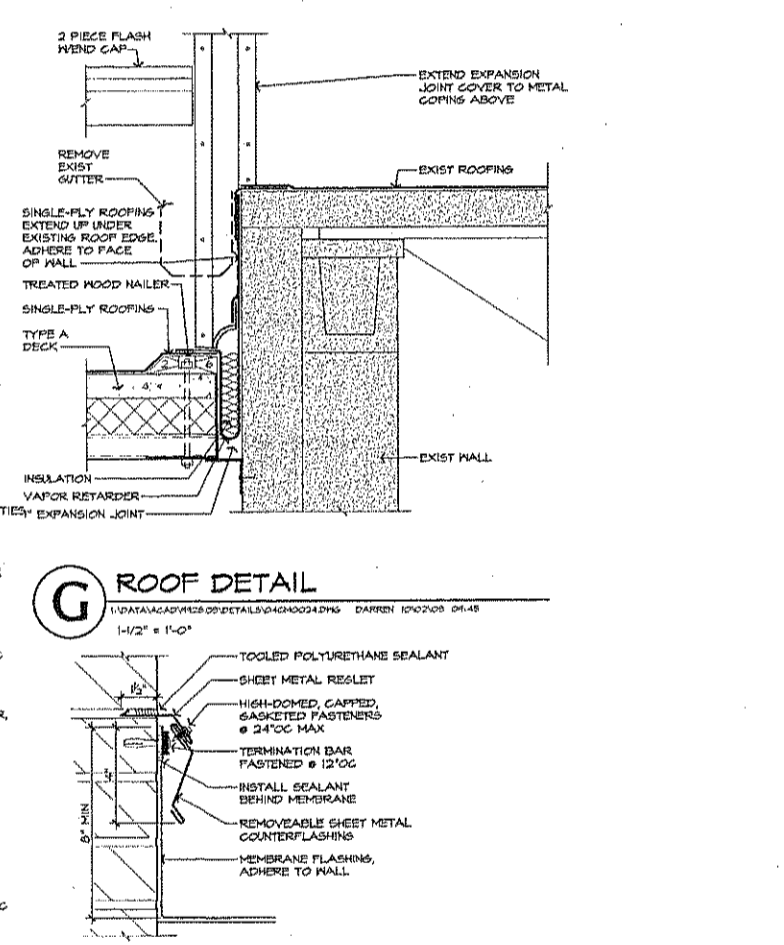
**E PARAPET WALL DETAIL**  
1/2" = 1'-0"



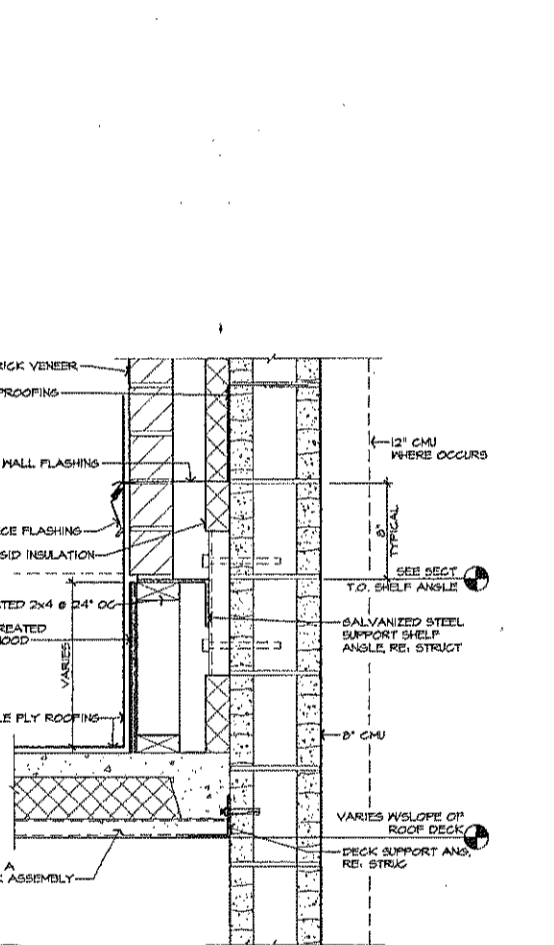
**H SECTION @ MECHANICAL ROOM ROOF**  
1/2" = 1'-0"



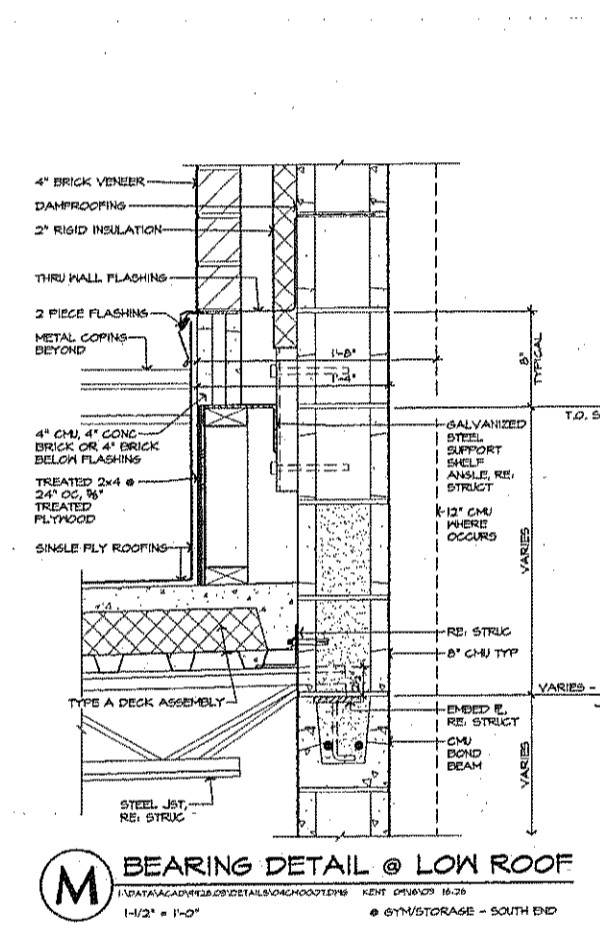
**J ROOF EDGE DETAIL**  
1/2" = 1'-0"



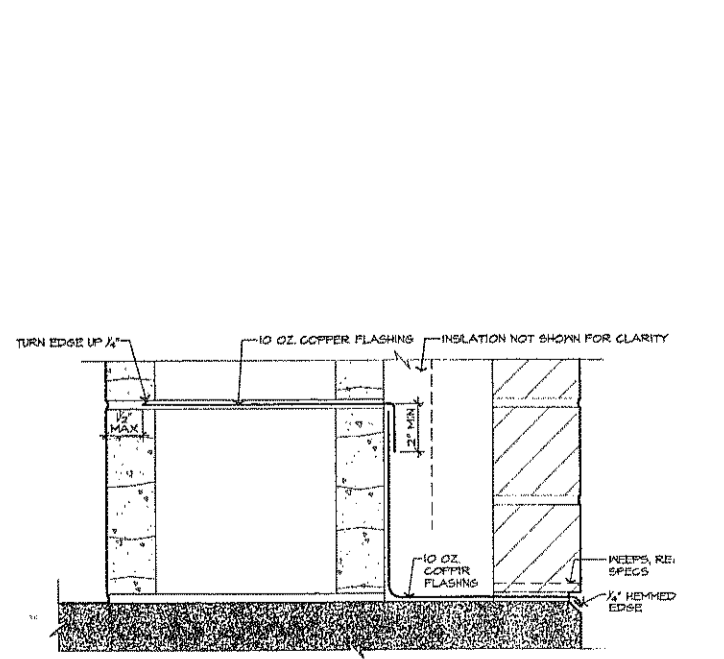
**K TYP 2 PIECE FLASHING**  
1/2" = 1'-0"



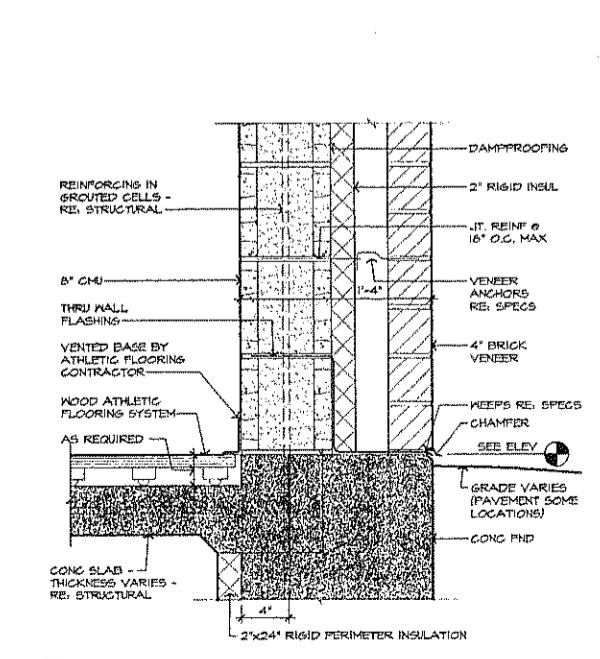
**L EDGE DETAIL @ LOW ROOF**  
1/2" = 1'-0"



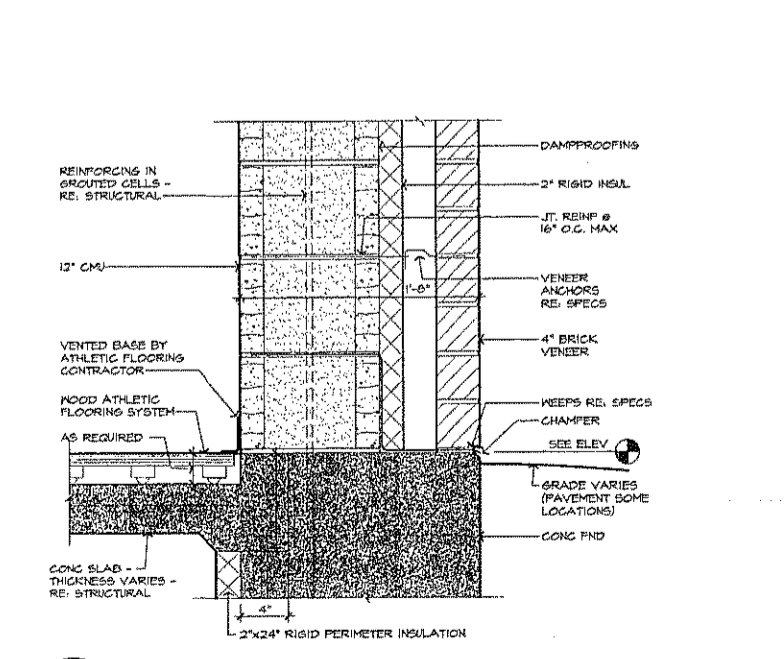
**M BEARING DETAIL @ LOW ROOF**  
1/2" = 1'-0"



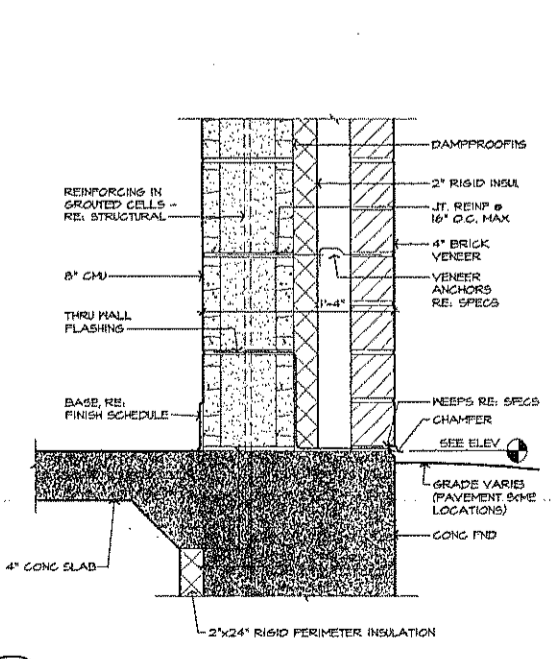
**N TYP. THRU WALL BASE FLASHING DTL.**  
1/2" = 1'-0"



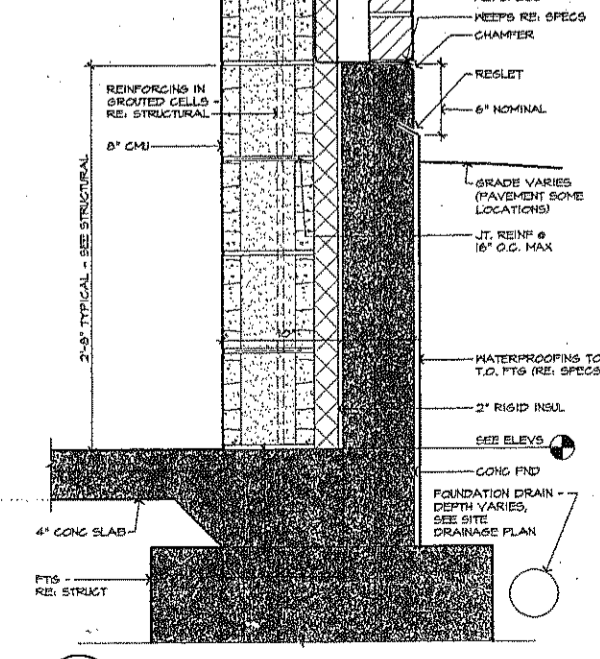
**P WALL BASE DTL @ GYMNASIUM**  
1/2" = 1'-0"



**Q TYP 20\"/>
1/2" = 1'-0"**



**R TYP 16\"/>
1/2" = 1'-0"**



**S WALL BASE DETAIL**  
1/2" = 1'-0"

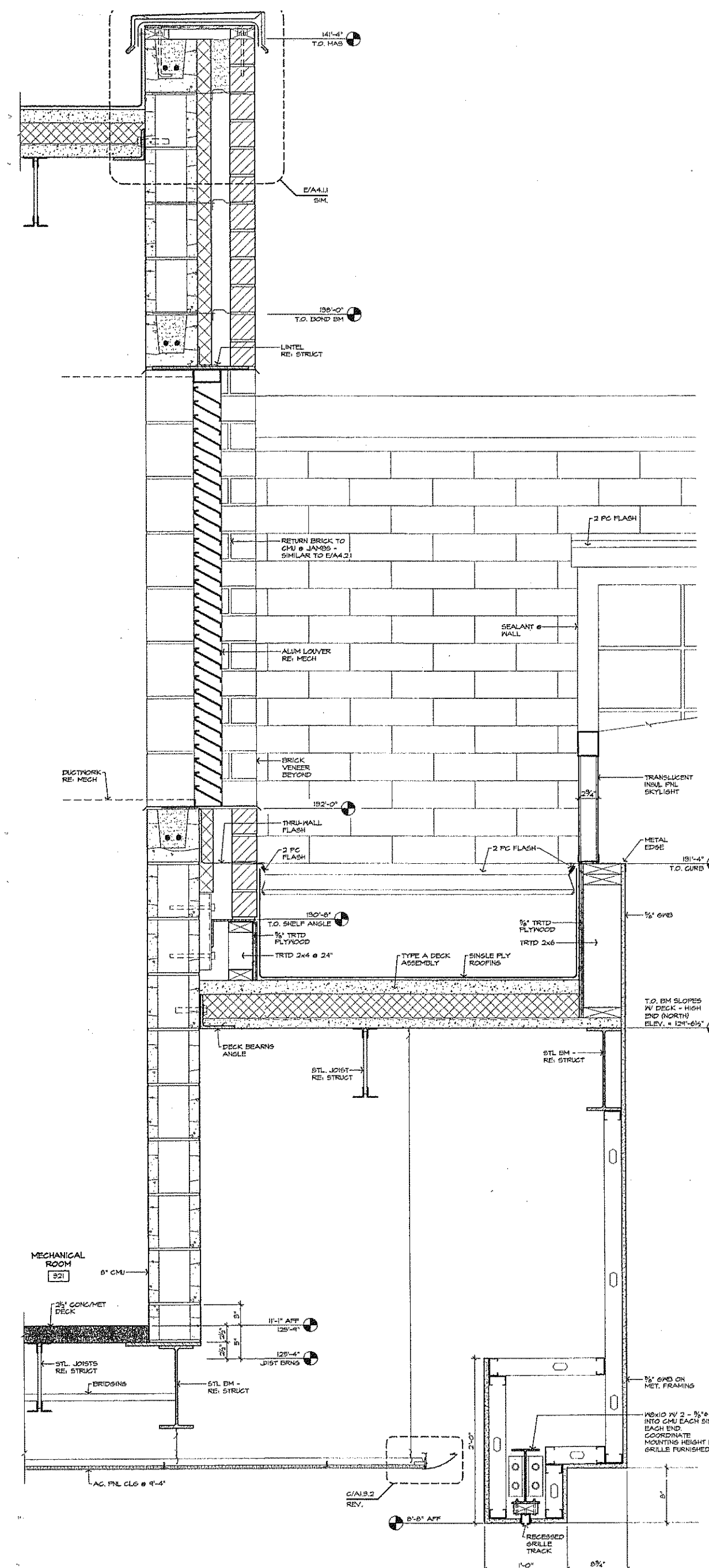
PROJECT NO 4926.03  
 DATE OCT 2003  
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 REVISION

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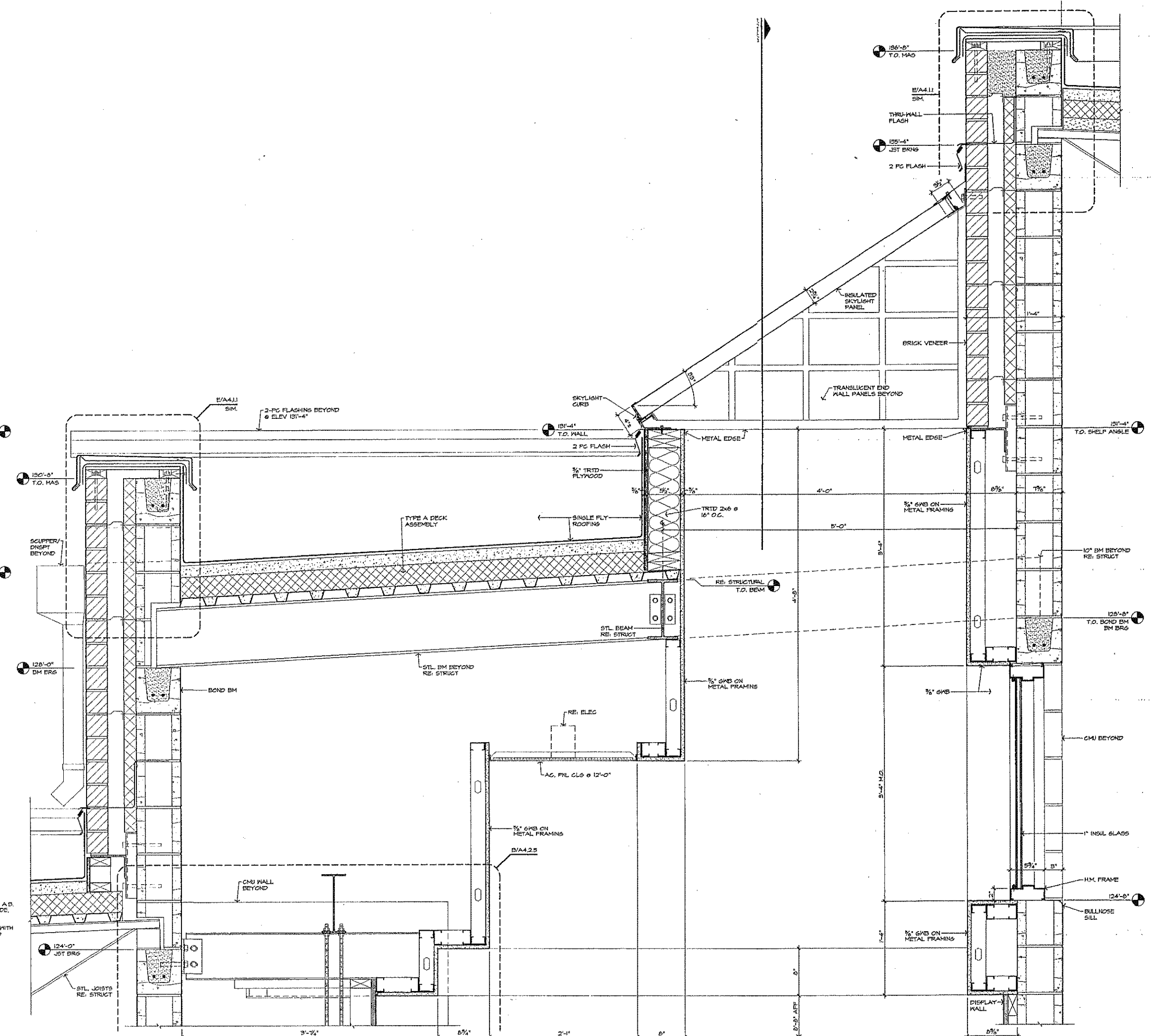


**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**A4.1.1**  
 EXTERIOR  
 DETAILS



**D SECTION @ SKYLIGHT**  
 1/2" = 1'-0"



**E SKYLIGHT DETAIL**  
 1/2" = 1'-0"

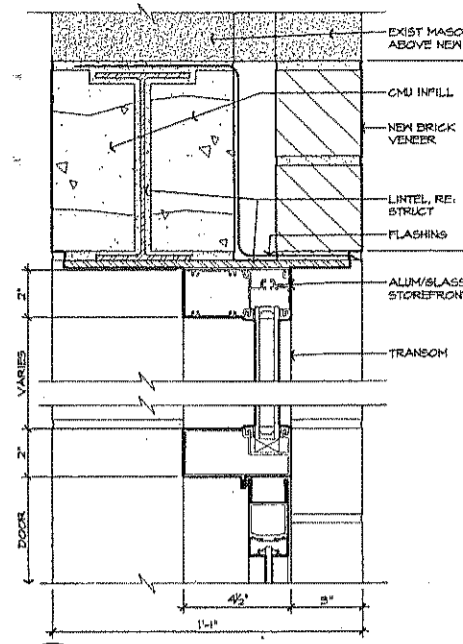
PROJECT NO 4426.03  
 DATE OCT 2003  
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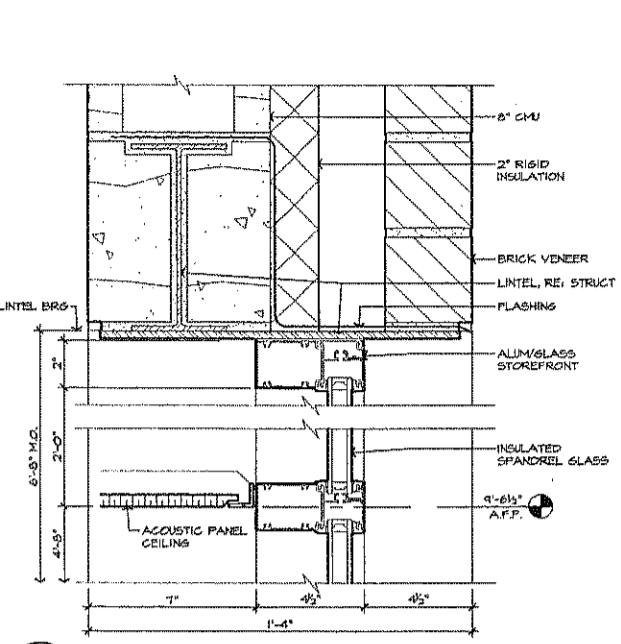


**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

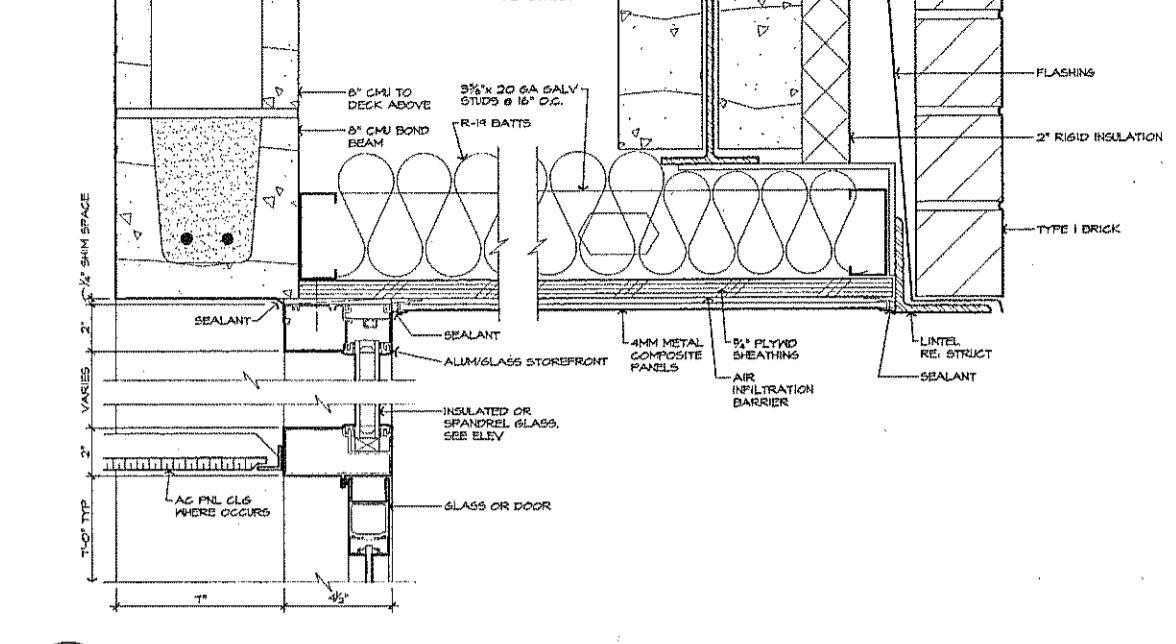
**SHEET**  
**A4.1.4**  
 EXTERIOR DETAILS



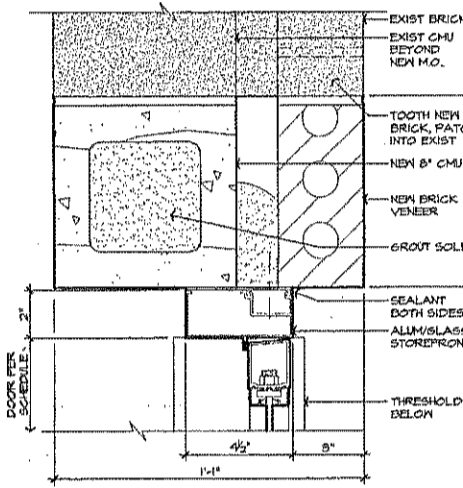
**A HEAD DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\HEAD\A.DWG DARRIN 09/20/03 14:23  
 3\"/>



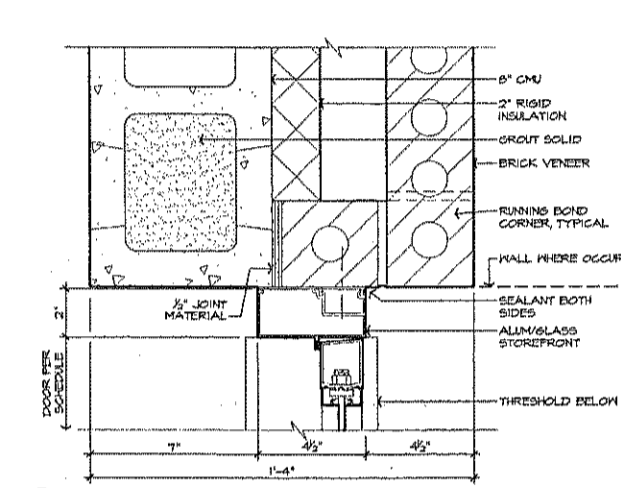
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 3\"/>



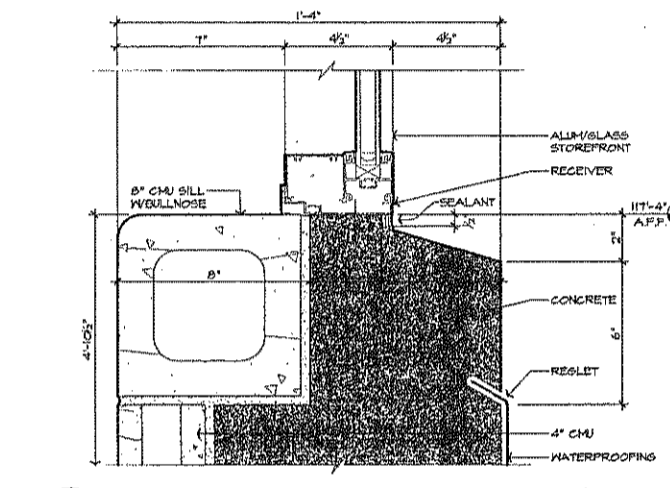
**C HEAD DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\HEAD\C.DWG DARRIN 09/20/03 14:26  
 3\"/>



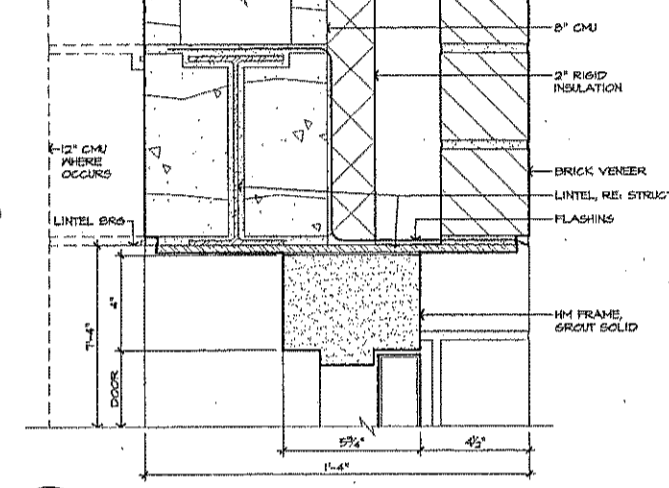
**D JAMB DETAIL**  
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 3\"/>



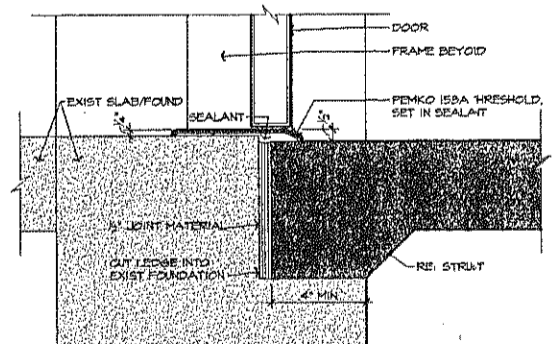
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 3\"/>



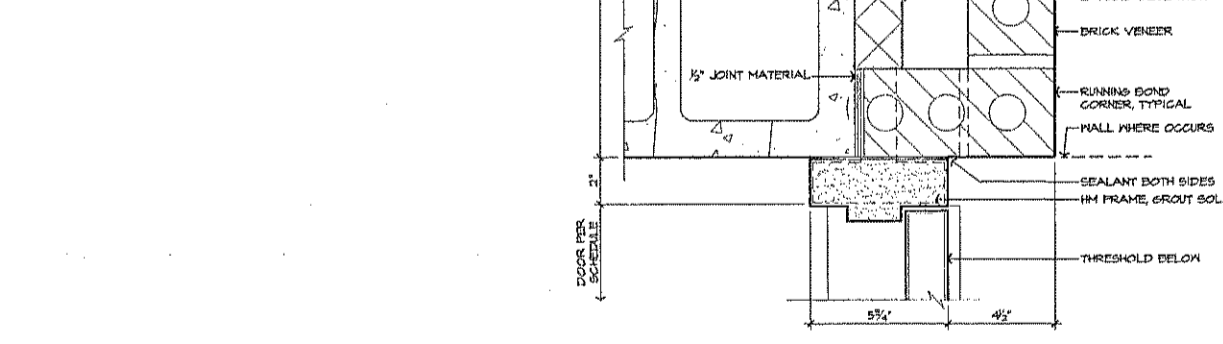
**F SILL DETAIL**  
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 3\"/>



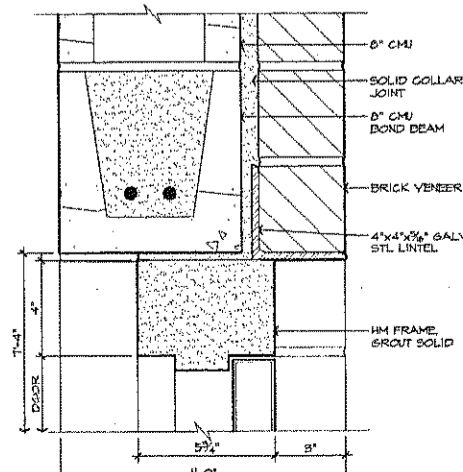
**G HEAD DETAIL**  
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 3\"/>



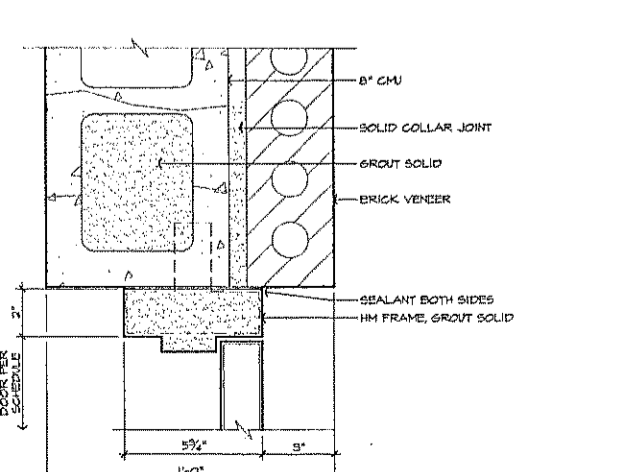
**H SILL DETAIL**  
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 3\"/>



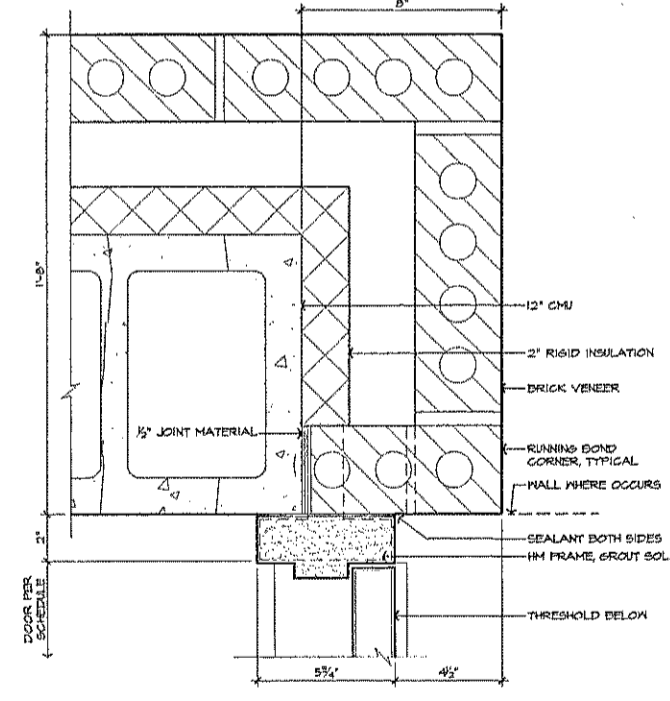
**I JAMB DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\JAMB\I.DWG DARRIN 09/20/03 14:26  
 3\"/>



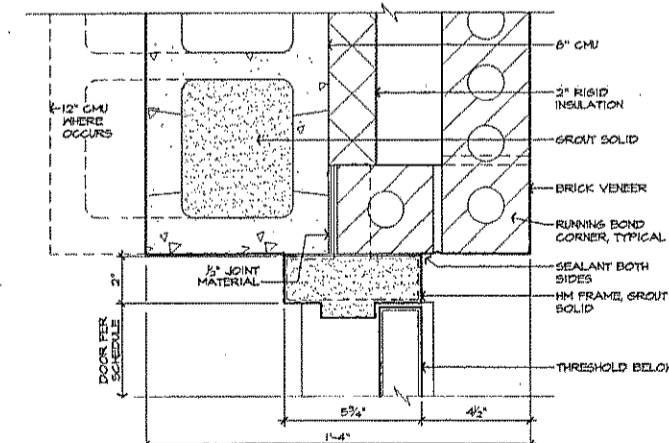
**N HEAD DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\HEAD\N.DWG DARRIN 09/20/03 14:26  
 3\"/>



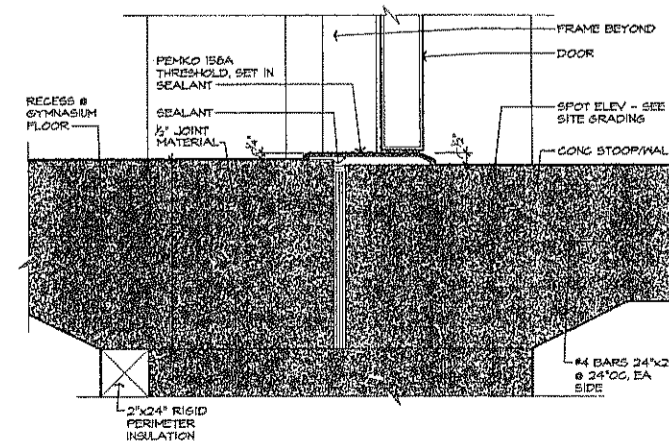
**O JAMB DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\JAMB\O.DWG DARRIN 09/20/03 14:23  
 3\"/>



**L JAMB DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\JAMB\L.DWG DARRIN 09/20/03 14:24  
 3\"/>



**M JAMB DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\JAMB\M.DWG DARRIN 09/20/03 14:18  
 3\"/>



**R SILL DETAIL**  
 1:8 DATA\ACAD\PHASE2\DETAILS\DOOR\SILL\R.DWG DARRIN 09/20/03 14:27  
 3\"/>

### Door Schedule - Phase I

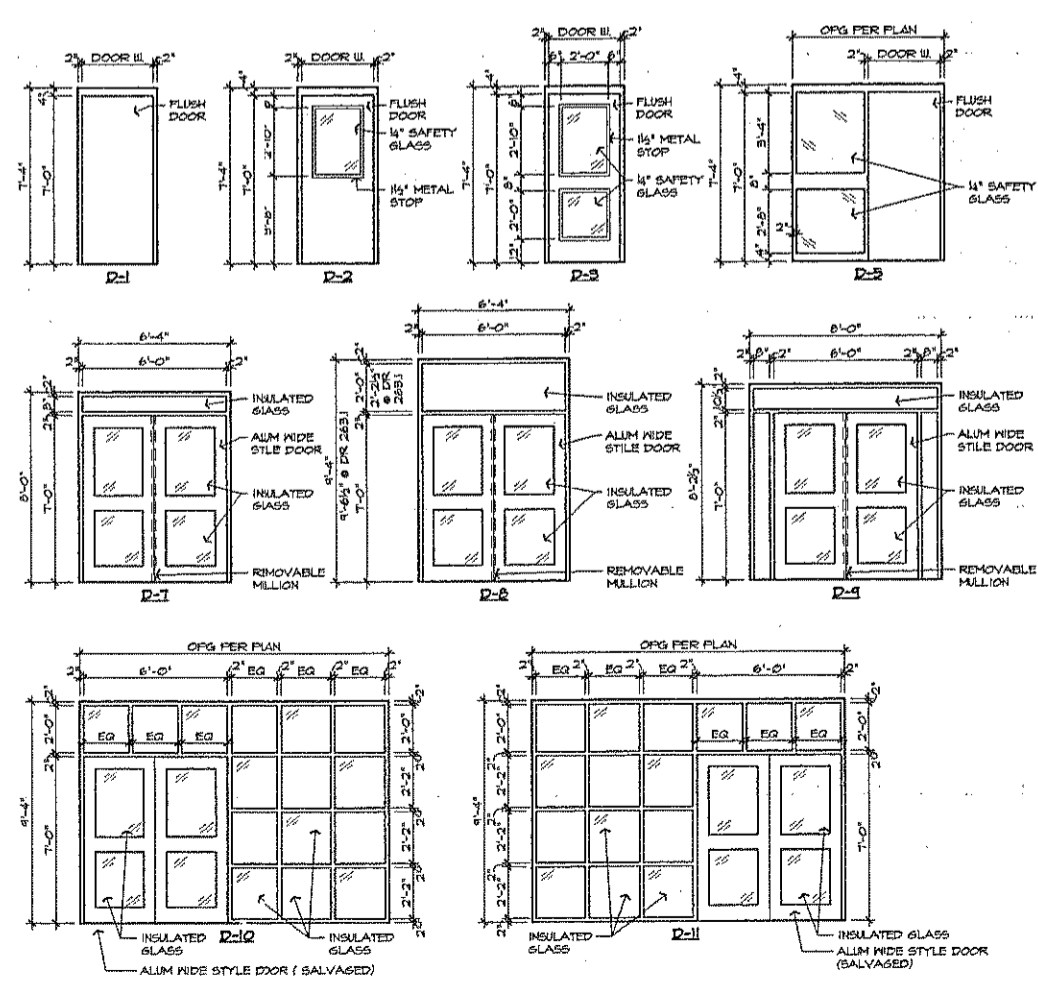
Door Number	Door Size	Door & Frame Type	Door Material	Frame Material	Details			Remarks
					Head	Jamb	Sill	
101	3'-0\"/>							
102	3'-0\"/>							
103	3'-0\"/>							
104	3'-0\"/>							
105	3'-0\"/>							
106	3'-0\"/>							
107	3'-0\"/>							
108	3'-0\"/>							
109	3'-0\"/>							
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**Abbreviations**  
 ALUM ALUMINUM  
 HM HOLLOW METAL  
 SGR SOLID CORE WOOD  
 STG SOLID TRANSPARENT GLASS  
 EXISTING/NOT APPLICABLE

**General Notes**  
 A HOLLOW METAL FRAMES TO BE PAINTED.  
 B HOLLOW METAL DOORS TO BE PAINTED.  
 C WOOD DOOR TRIM TO HAVE TRANSPARENT FINISH.  
 D SOLID CORE WOOD DOORS TO BE FACTORY FINISHED. RE. SPECS.  
 E BORROW LITE METAL STRIPS TO BE FIELD PAINTED.  
 F SEE DETAIL W/A4.2.3 FOR TYPICAL DOOR LAYOUT IN MASONRY WALL COURSES.

**Keyed Notes**  
 1 SALVAGED DOORS RE. PLANS.  
 2 NEW DOOR INSTALLED ON EXISTING HM FRAME. VERIFY DOOR SIZE, REED.  
 PROVIDE 1\"/>

**Color Legend**  
 ALL COLORS TO BE SELECTED BY ARCHITECT



**S DOOR & FRAME TYPES**  
 1/4\"/>

PROJECT NO 4928.03  
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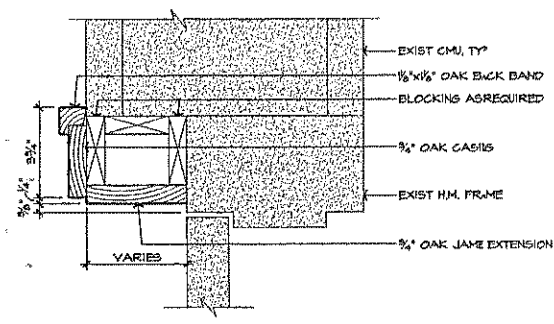
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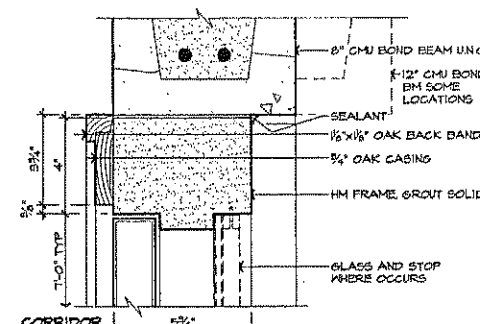
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 Phase I  
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SHEET  
**A4.2.1**  
 DOOR SCHEDULE AND DOOR DETAILS

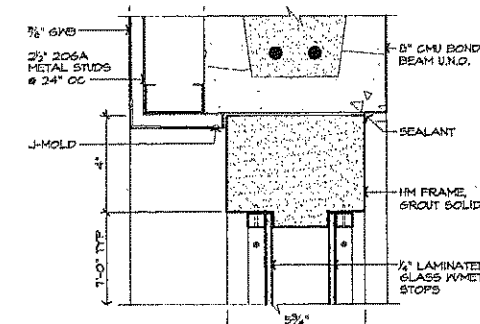




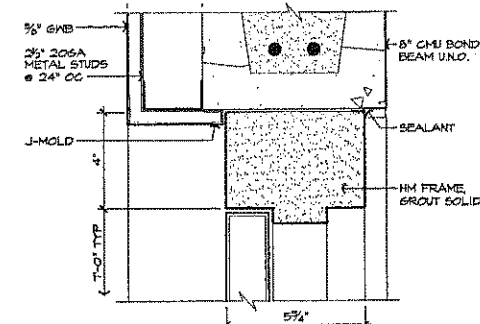
**A** TYP EXIST DOOR HEAD FRAME ENHANCEMENT  
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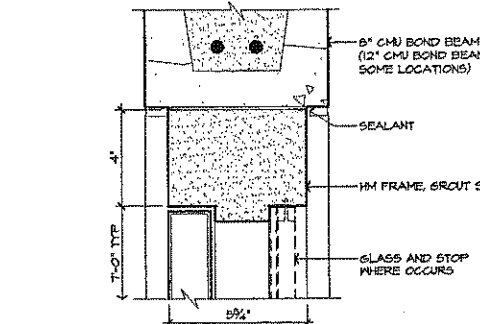
**B** HEAD DETAIL  
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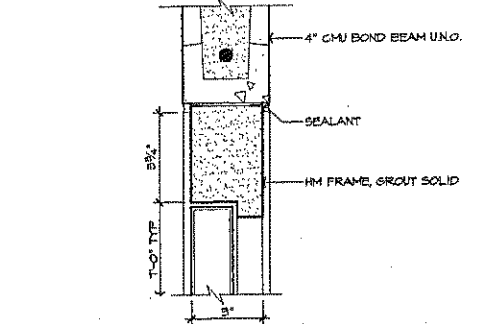
**C** HEAD DETAIL  
1:1/2\"/>



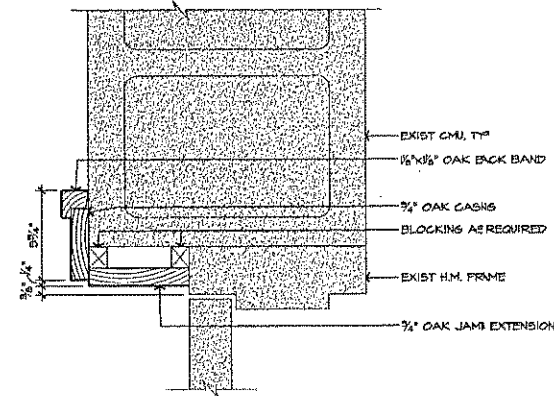
**D** HEAD DETAIL  
1:1/2\"/>



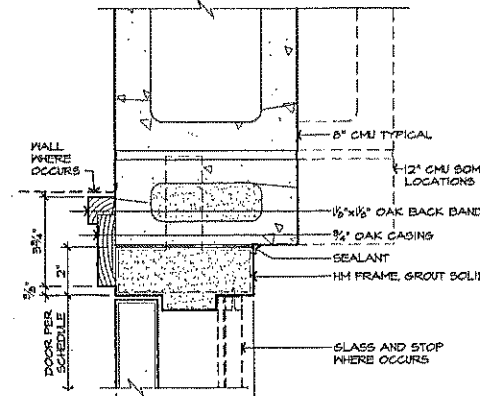
**E** TYPICAL HEAD DETAIL  
1:1/2\"/>



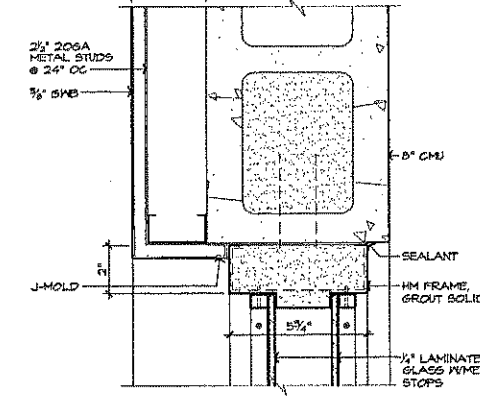
**F** HEAD DETAIL @ 4\"/>



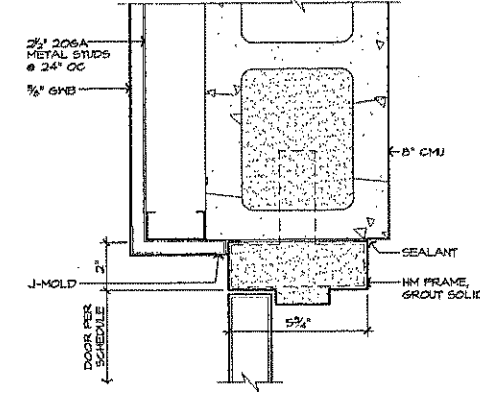
**G** TYP EXIST DOOR JAMB FRAME ENHANCEMENT  
1:1/2\"/>



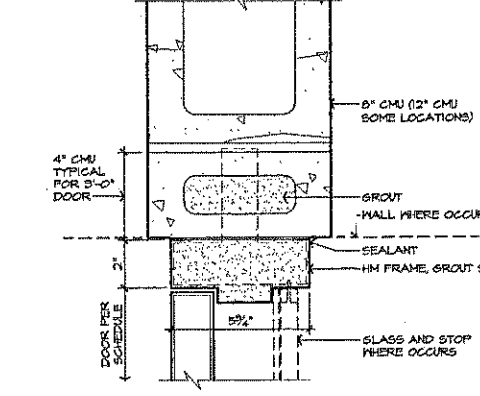
**H** JAMB DETAIL  
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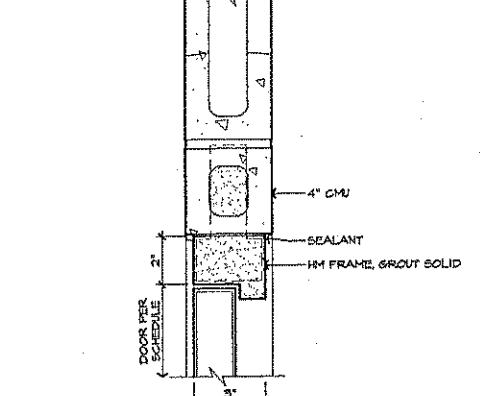
**J** JAMB DETAIL  
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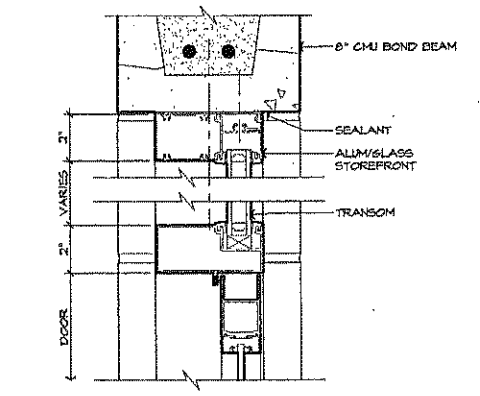
**K** JAMB DETAIL  
1:1/2\"/>



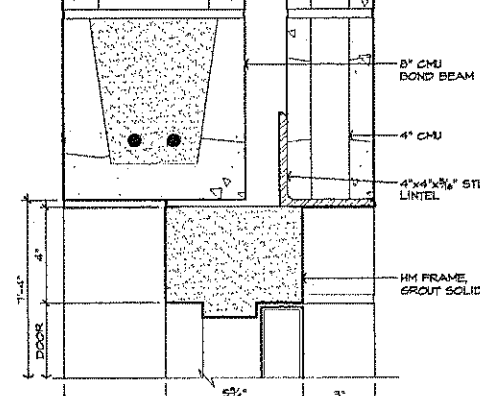
**L** TYPICAL JAMB DETAIL  
1:1/2\"/>



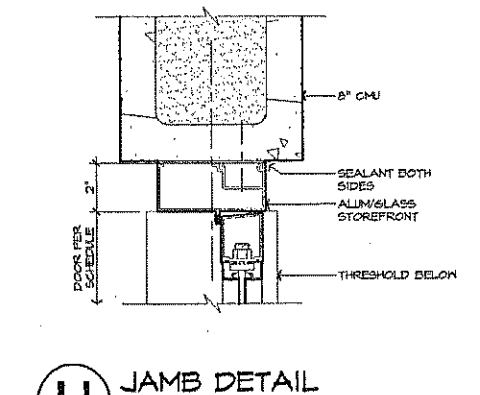
**M** JAMB DETAIL @ 4\"/>



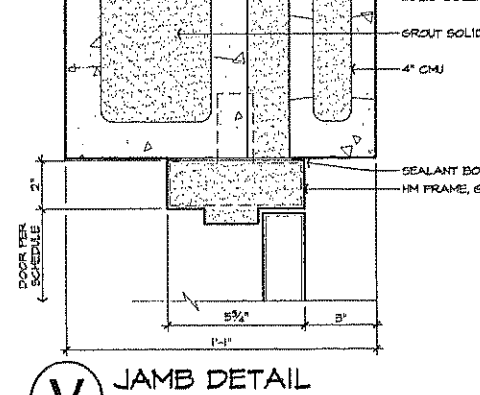
**P** HEAD DETAIL  
1:1/2\"/>



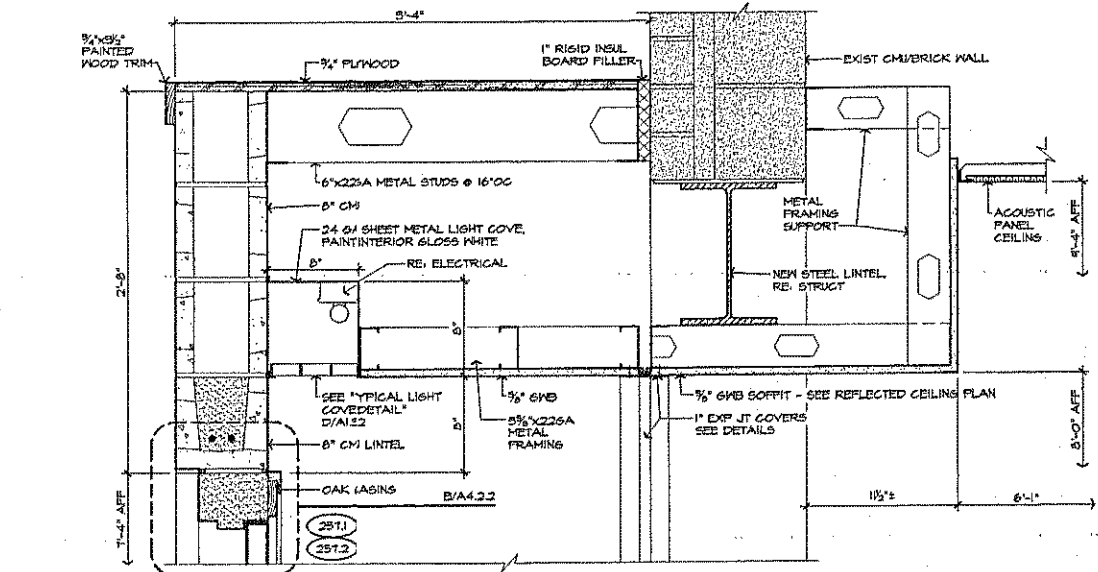
**Q** HEAD DETAIL  
1:1/2\"/>



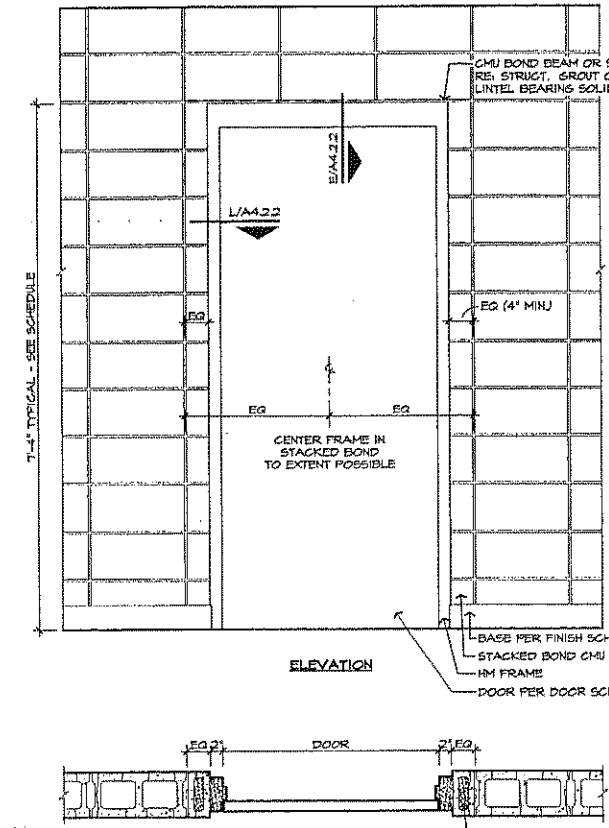
**U** JAMB DETAIL  
1:1/2\"/>



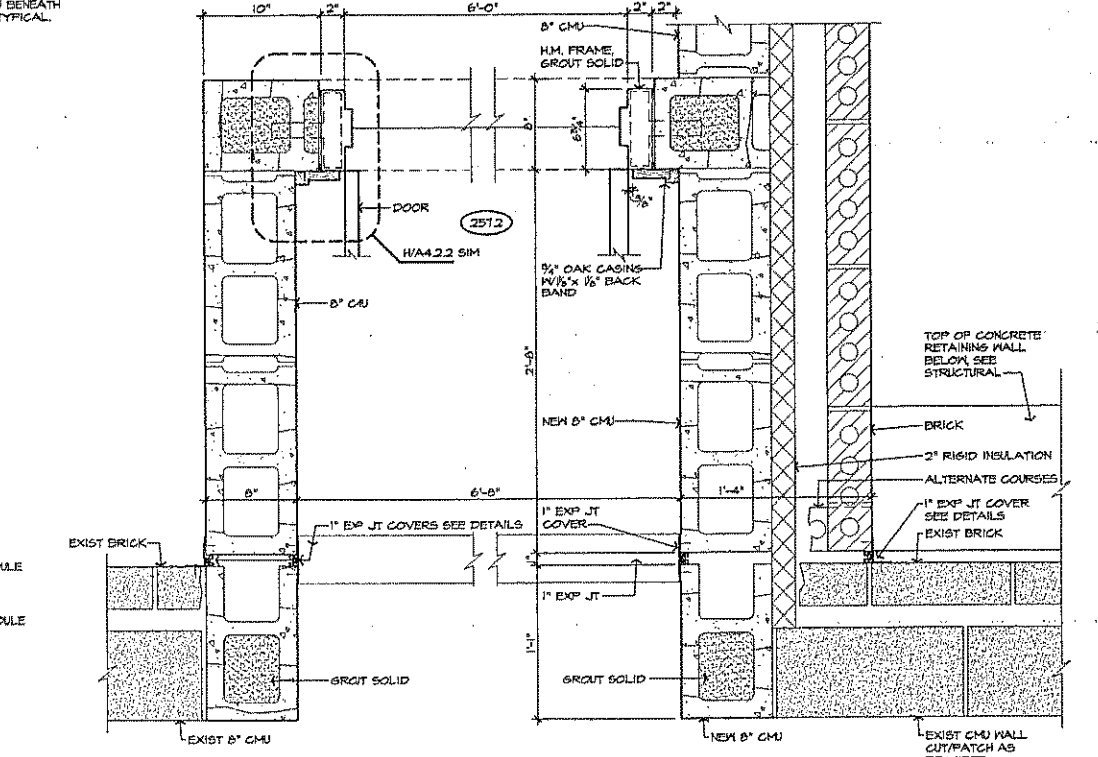
**V** JAMB DETAIL  
1:1/2\"/>



**S** ALCOVE HEAD/SOFFIT DETAIL  
1:1/2\"/>



**Y** TYPICAL HM DOOR LAYOUT  
1:1/2\"/>



**Z** ALCOVE PLAN  
1:1/2\"/>

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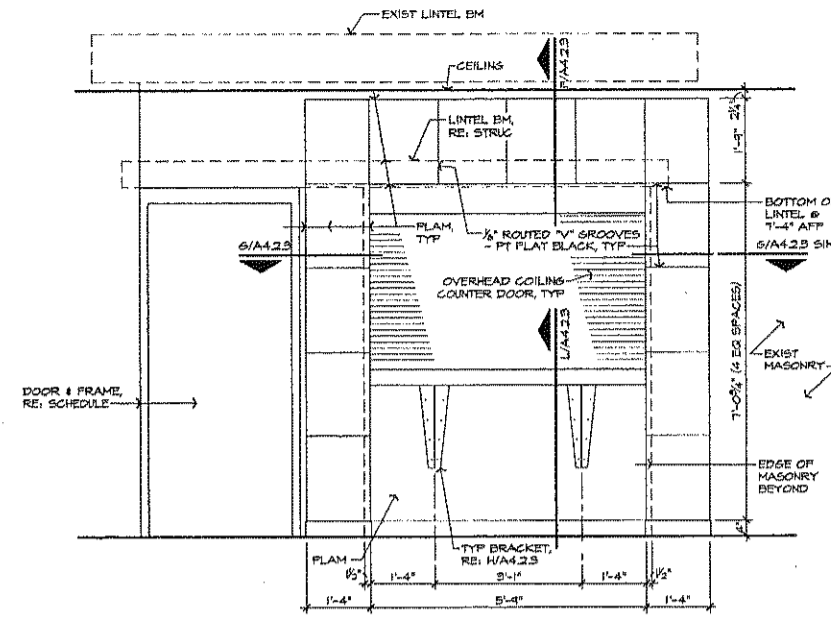
Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
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 Wamego, Kansas 66547

SHEET  
**A4.2.2**  
 DOOR DETAILS

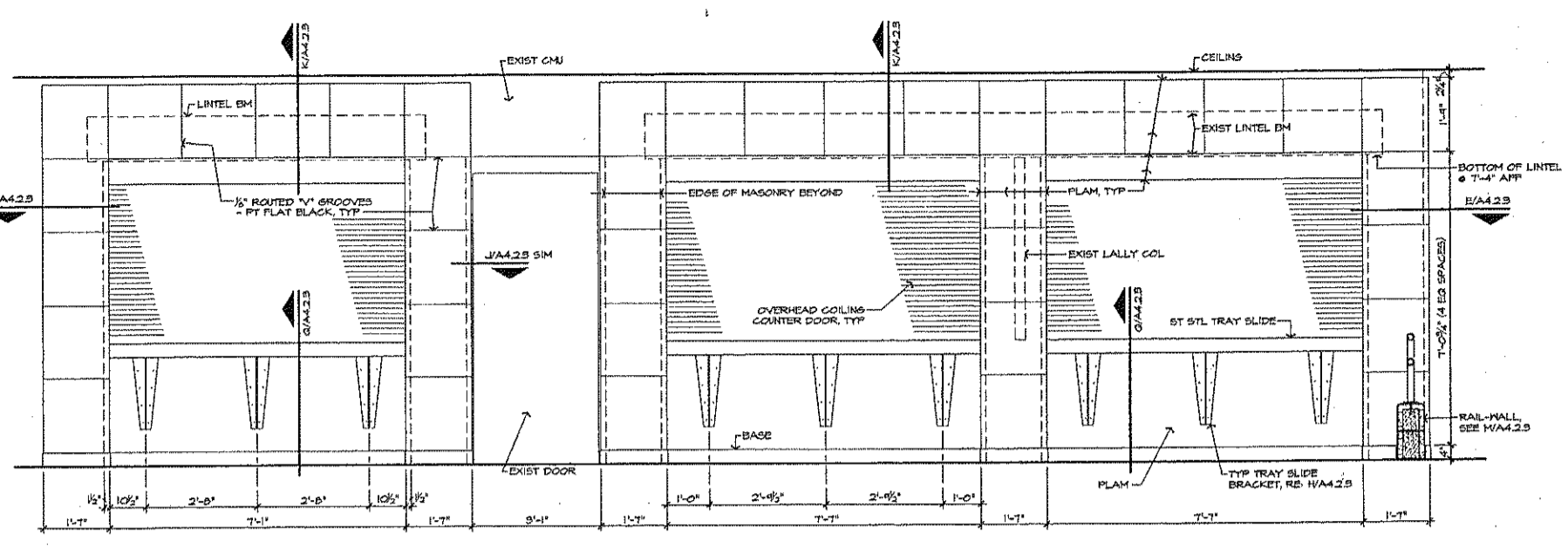
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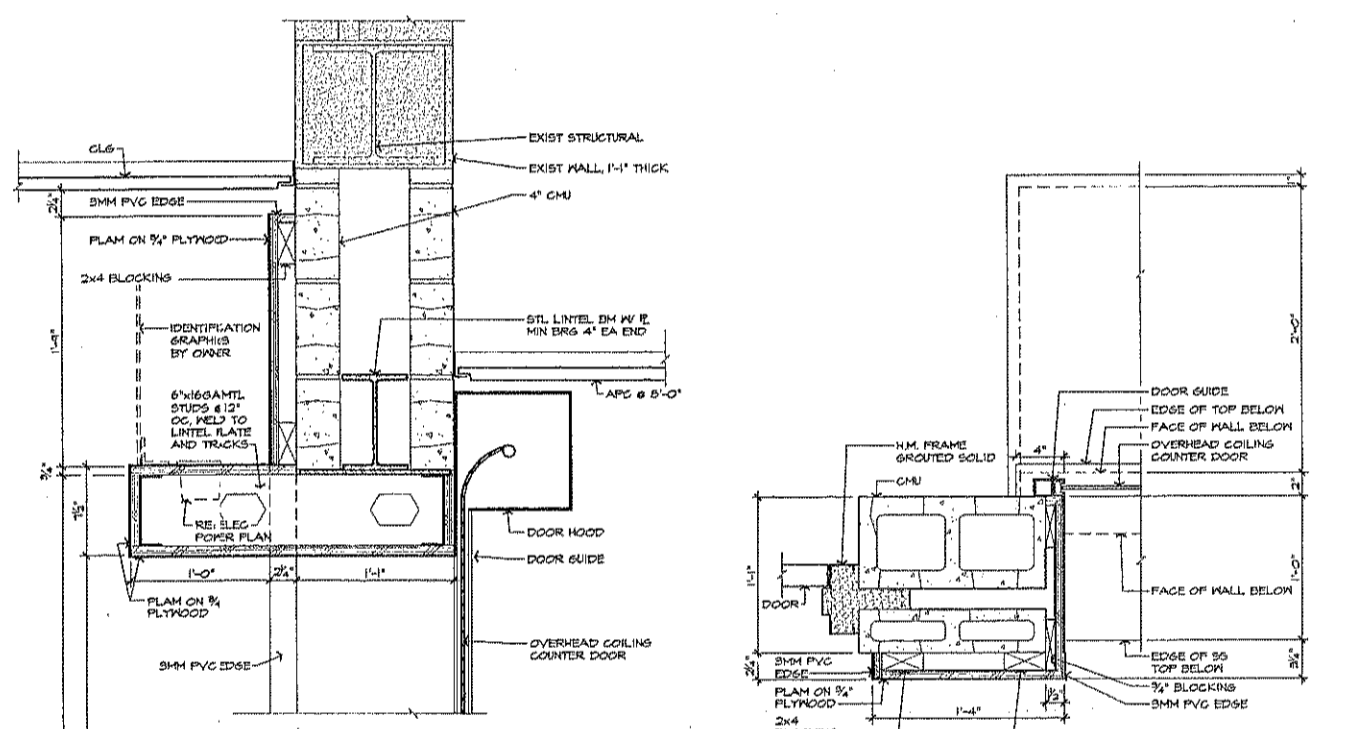
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547



**B** CONCESSIONS SERVING WINDOW ELEV  
 1/2" = 1'-0"

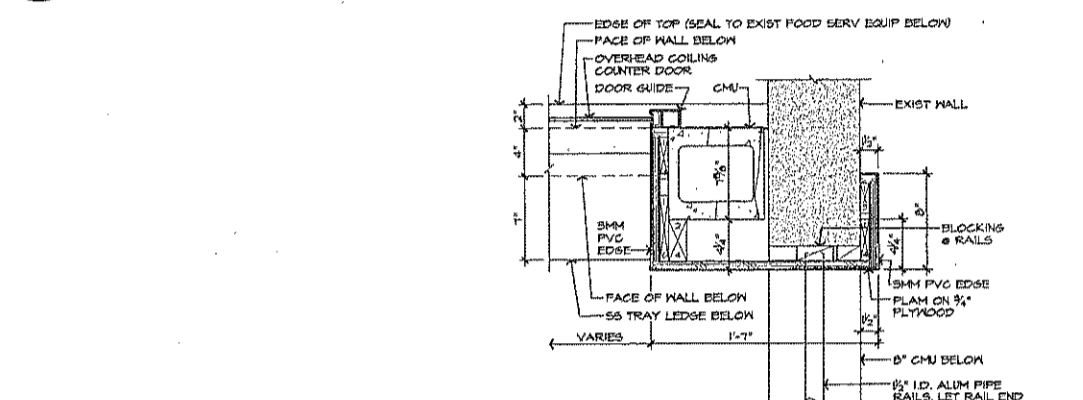


**C** WEST WALL OF FOOD COURT - SERVING WINDOWS  
 1/2" = 1'-0"

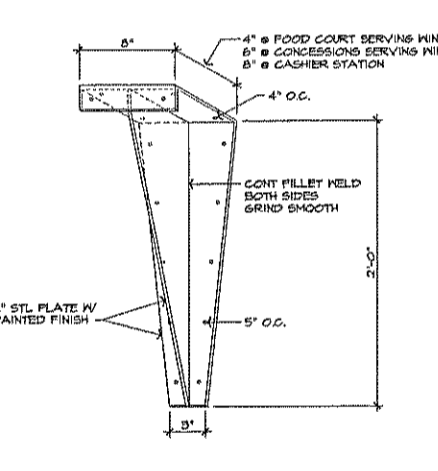


**F** CONCESSIONS WINDOW HEAD  
 1/2" = 1'-0"

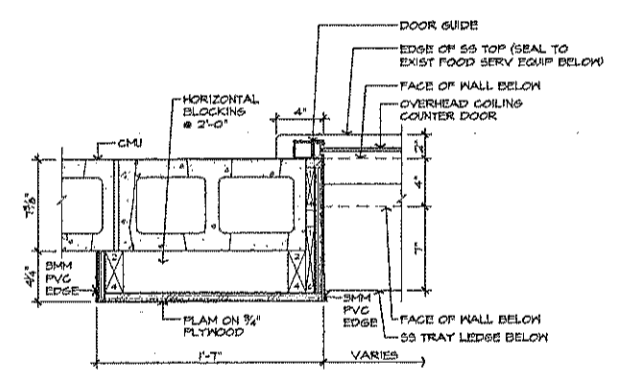
**G** CONCESSIONS SERVING WINDOW JAMB  
 1/2" = 1'-0"



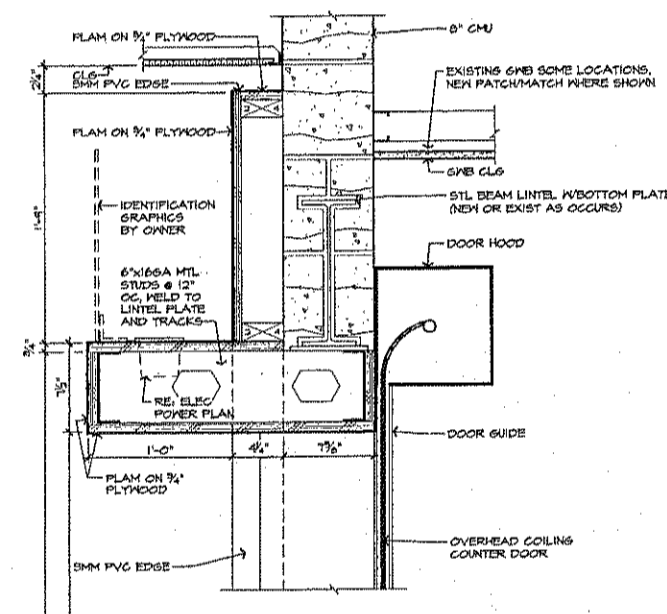
**E** FOOD COURT SERVING WIN JAMB  
 1/2" = 1'-0"



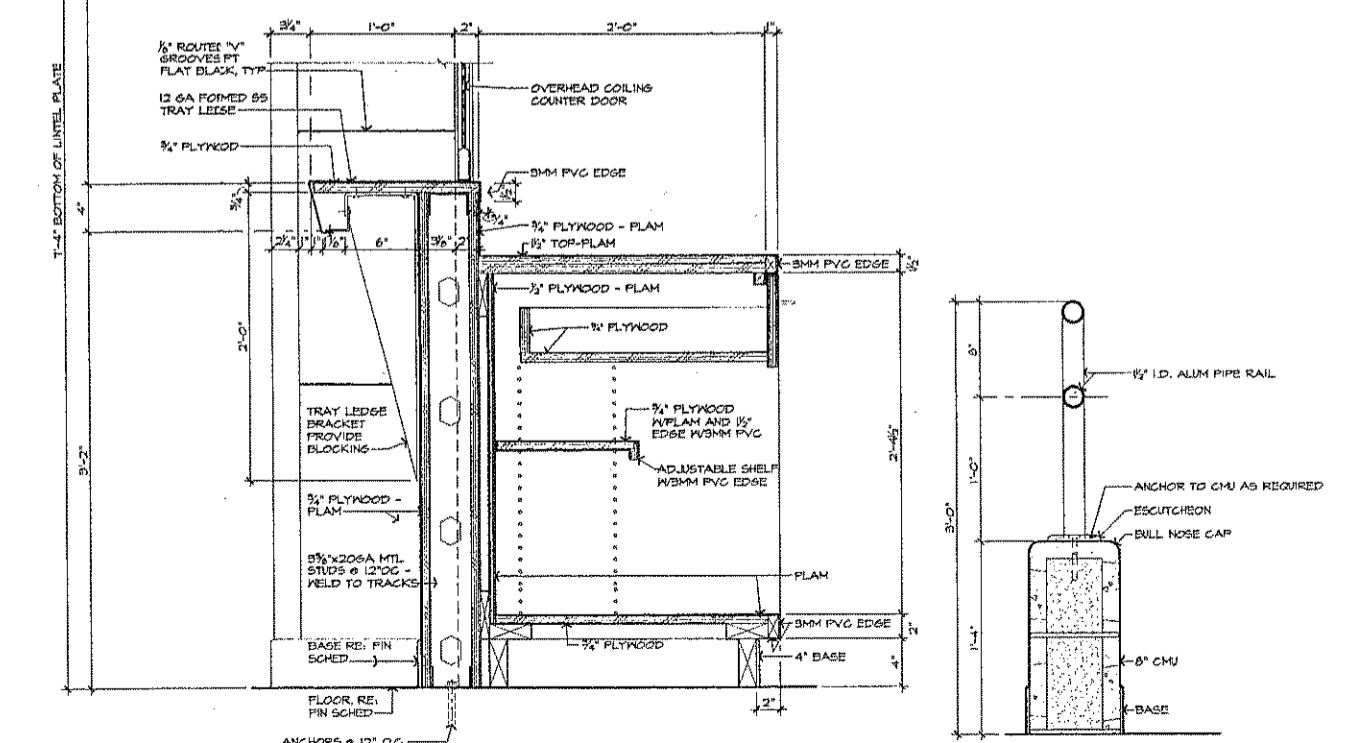
**H** TRAY LEDGE BRACKET  
 1/2" = 1'-0"



**J** FOOD COURT SERVING WIN JAMB  
 1/2" = 1'-0"

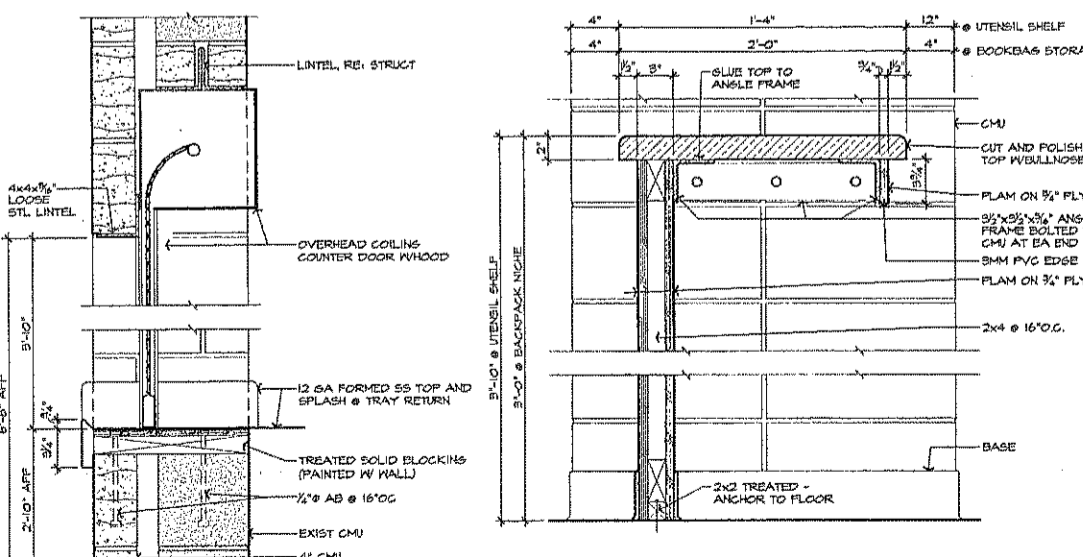


**K** FOOD COURT WINDOW HEAD  
 1/2" = 1'-0"



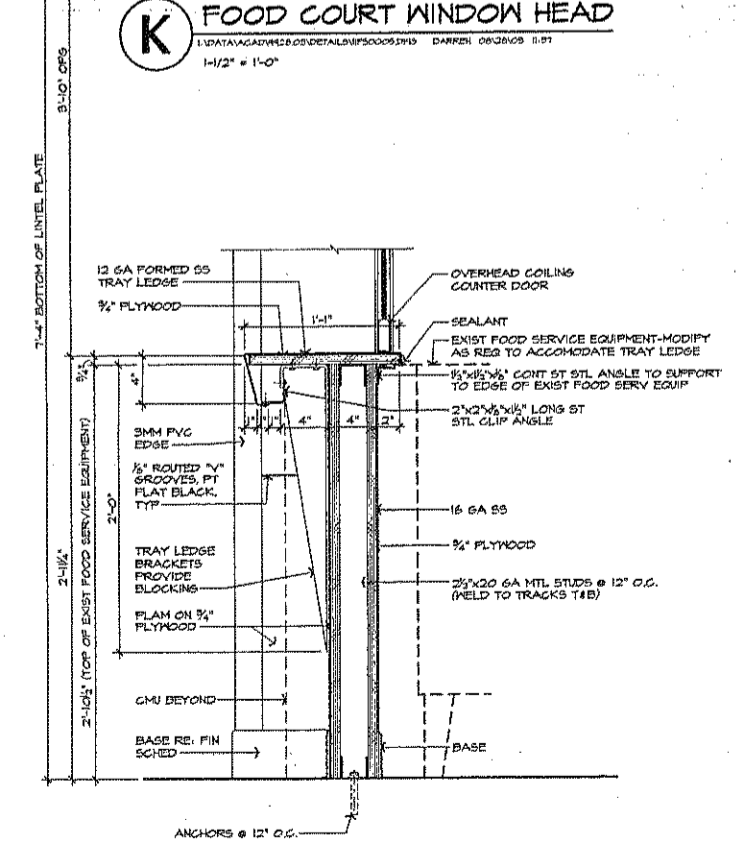
**L** CONCESSIONS SERVING WINDOW SECT  
 1/2" = 1'-0"

**M** SECT @ RAIL-WALL  
 1/2" = 1'-0"



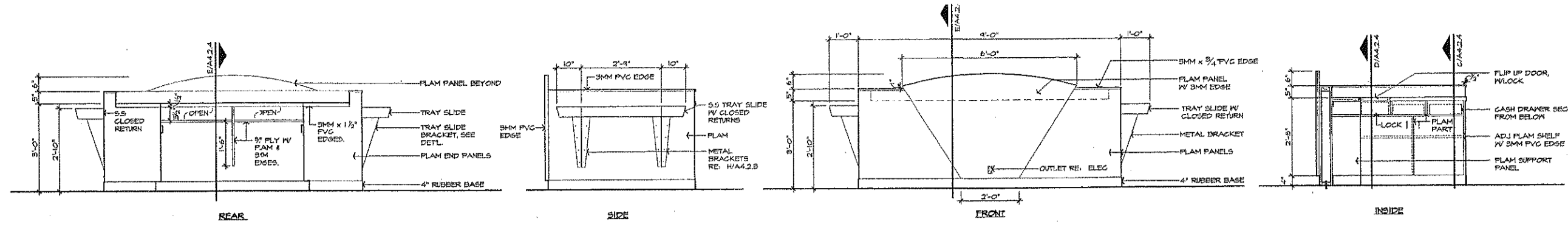
**N** TRAY RETURN WINDOW  
 1/2" = 1'-0"

**P** SHELF DETAIL  
 1/2" = 1'-0"

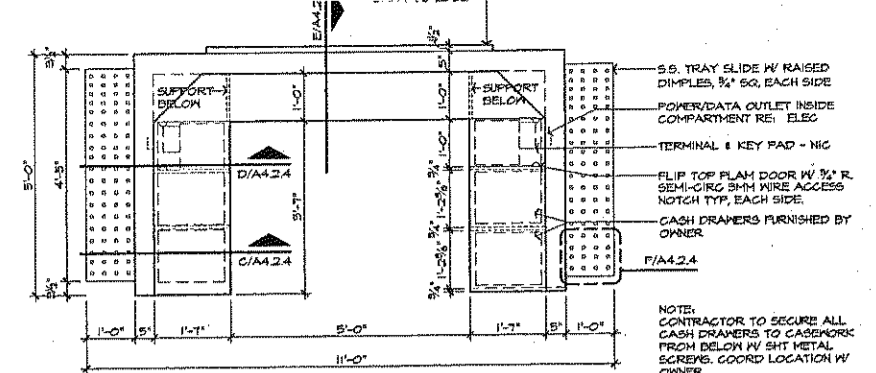


**Q** FOOD COURT SERVING WINDOW SECT  
 1/2" = 1'-0"

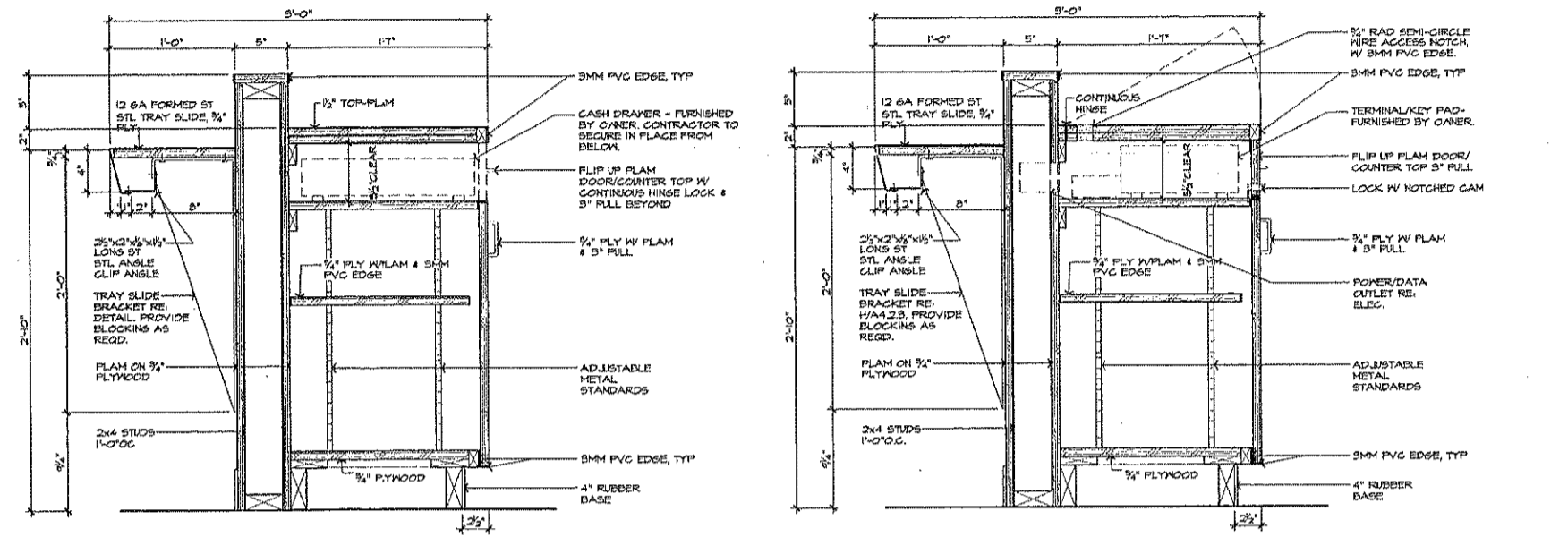
1/2" = 1'-0" (VERTICAL SCALE)



**A CASHIER STATION ELEVATIONS**  
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 1/2" = 1'-0"

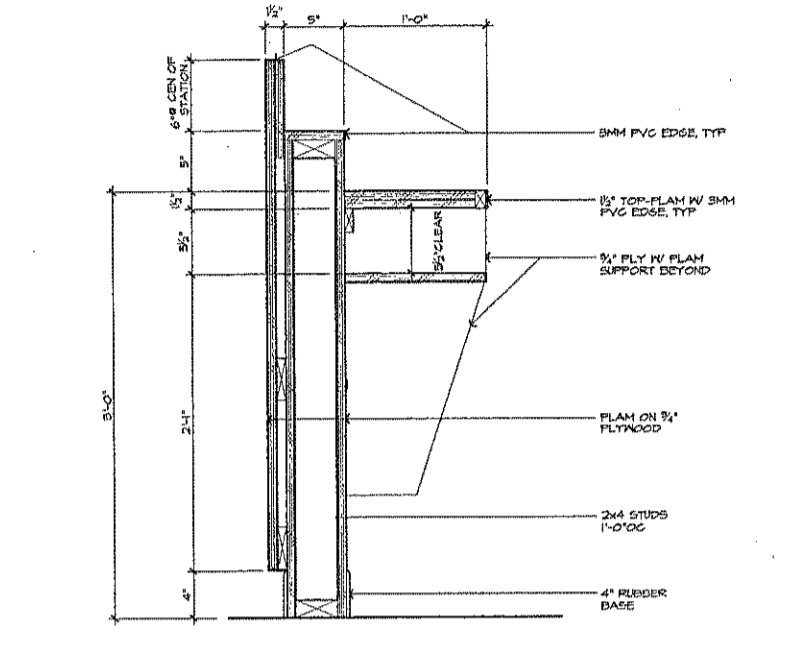


**B CASHIER STATION PLAN**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 14:31  
 1/2" = 1'-0"

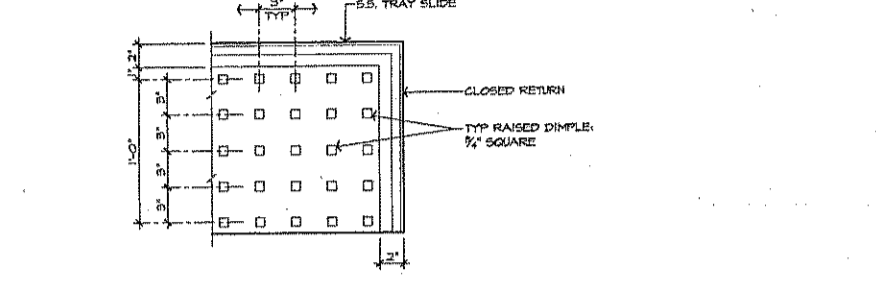


**C CASHIER STATION SECTION**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 15:12  
 1/2" = 1'-0"

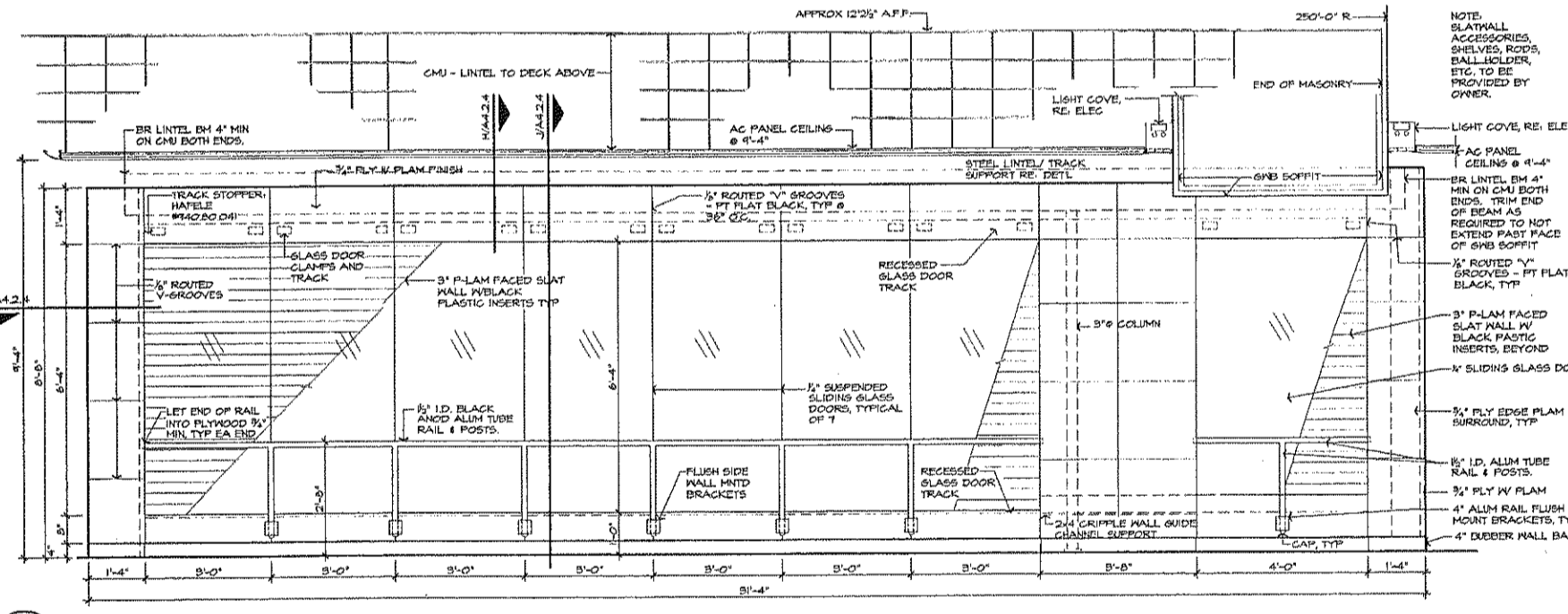
**D CASHIER STATION SECTION**  
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 1/2" = 1'-0"



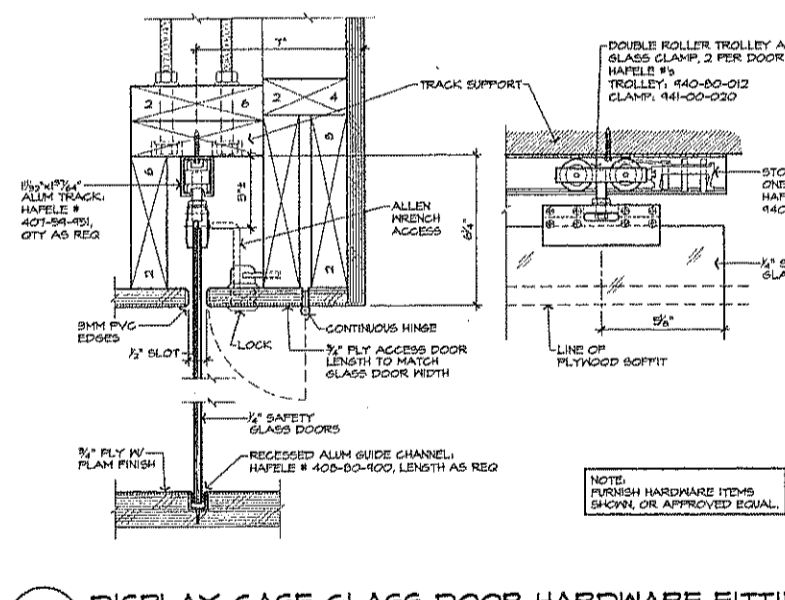
**E CASHIER STATION SECTION**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 16:34  
 1/2" = 1'-0"



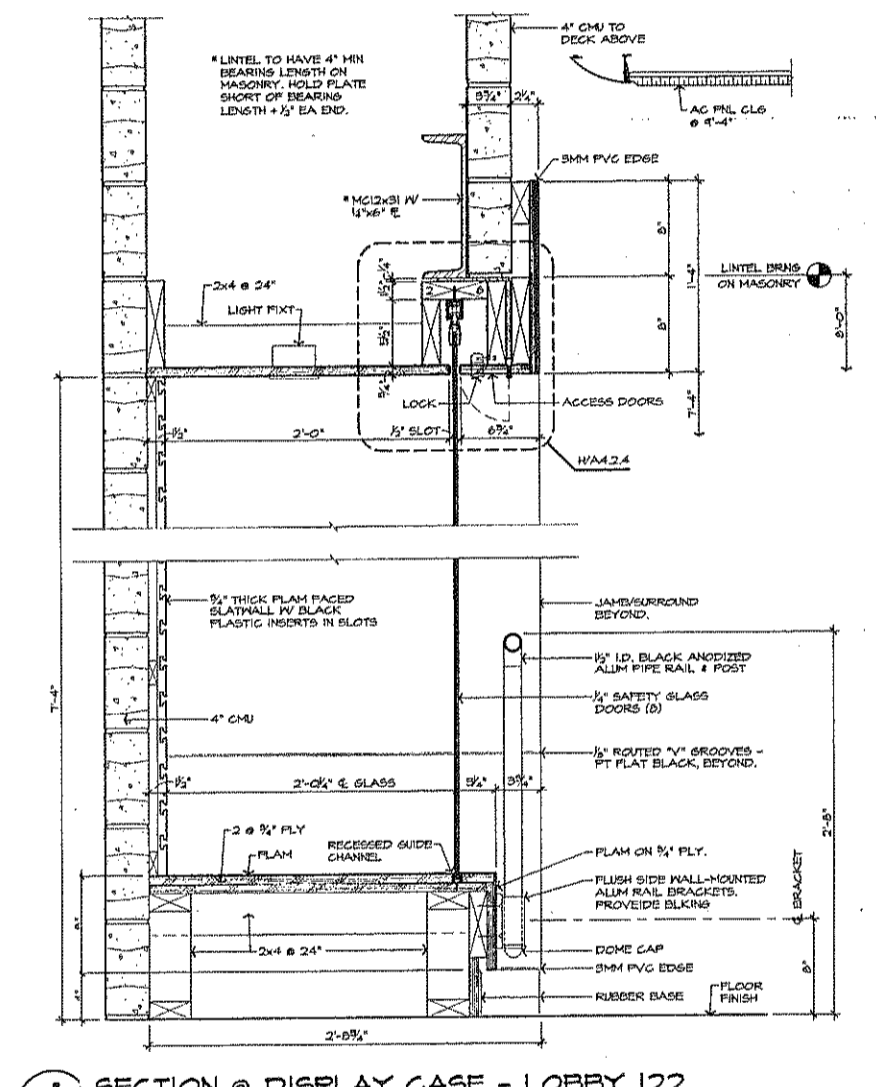
**F TRAY SLIDE END RETURN**  
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 1/2" = 1'-0"



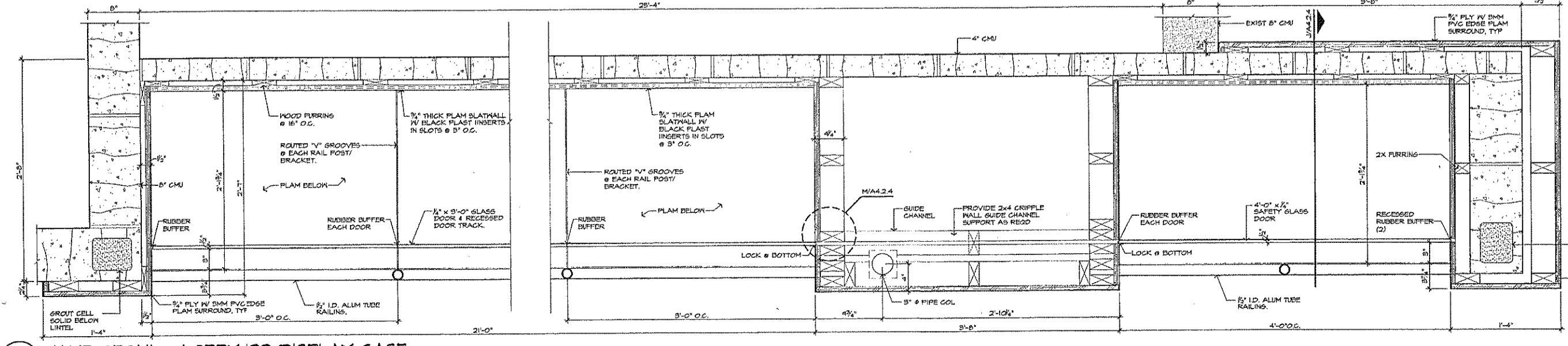
**G DISPLAY CASE - LOBBY 122**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 10:02  
 1/2" = 1'-0"



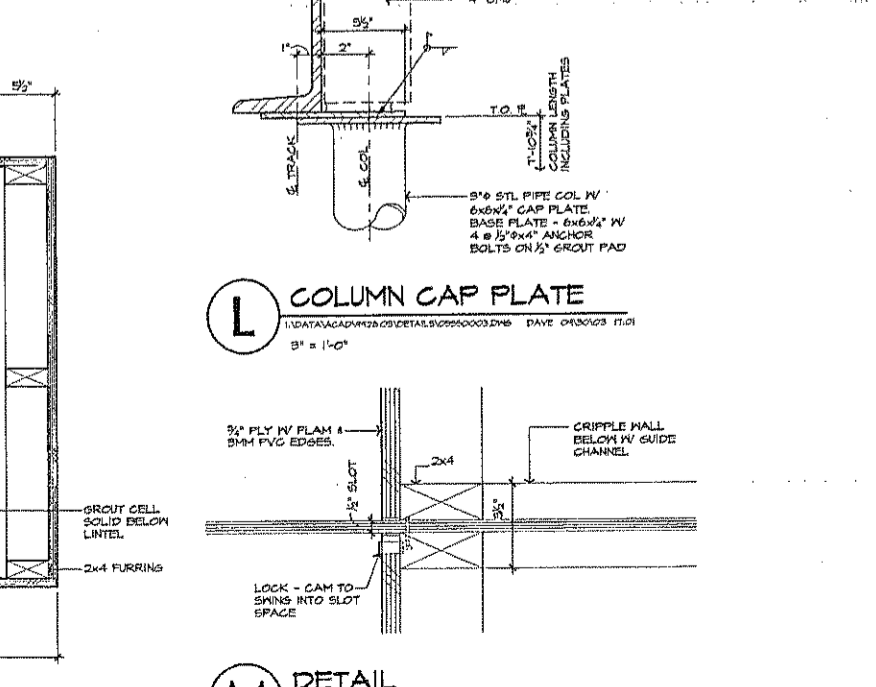
**H DISPLAY CASE GLASS DOOR HARDWARE FITTINGS**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 08:44  
 3" = 1'-0"



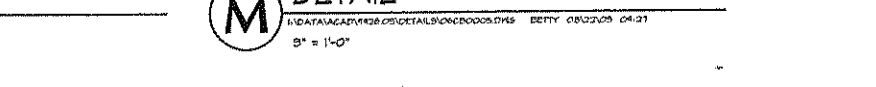
**J SECTION @ DISPLAY CASE - LOBBY 122**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 14:46  
 1/2" = 1'-0"



**K JAMB DETAIL - LOBBY 122 DISPLAY CASE**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 04:23  
 1/2" = 1'-0"



**L COLUMN CAP PLATE**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 14:11  
 3" = 1'-0"



**M DETAIL**  
 1:\DATA\A424\A424.DWG\DETAILS\000002.DWG BETTY 09/20/03 04:21  
 3" = 1'-0"

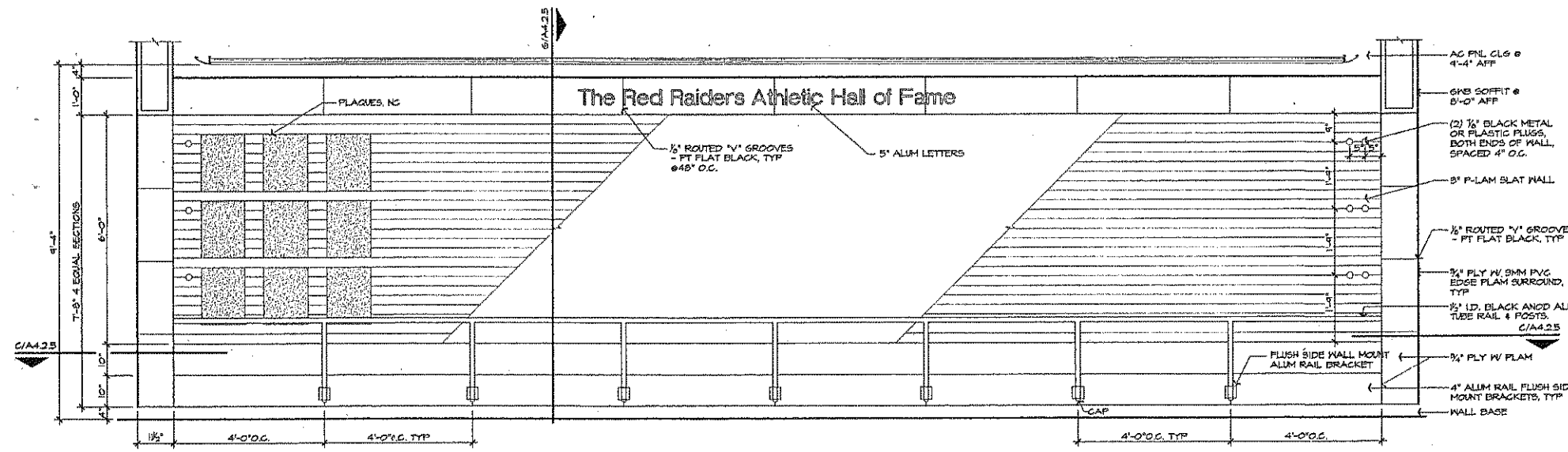
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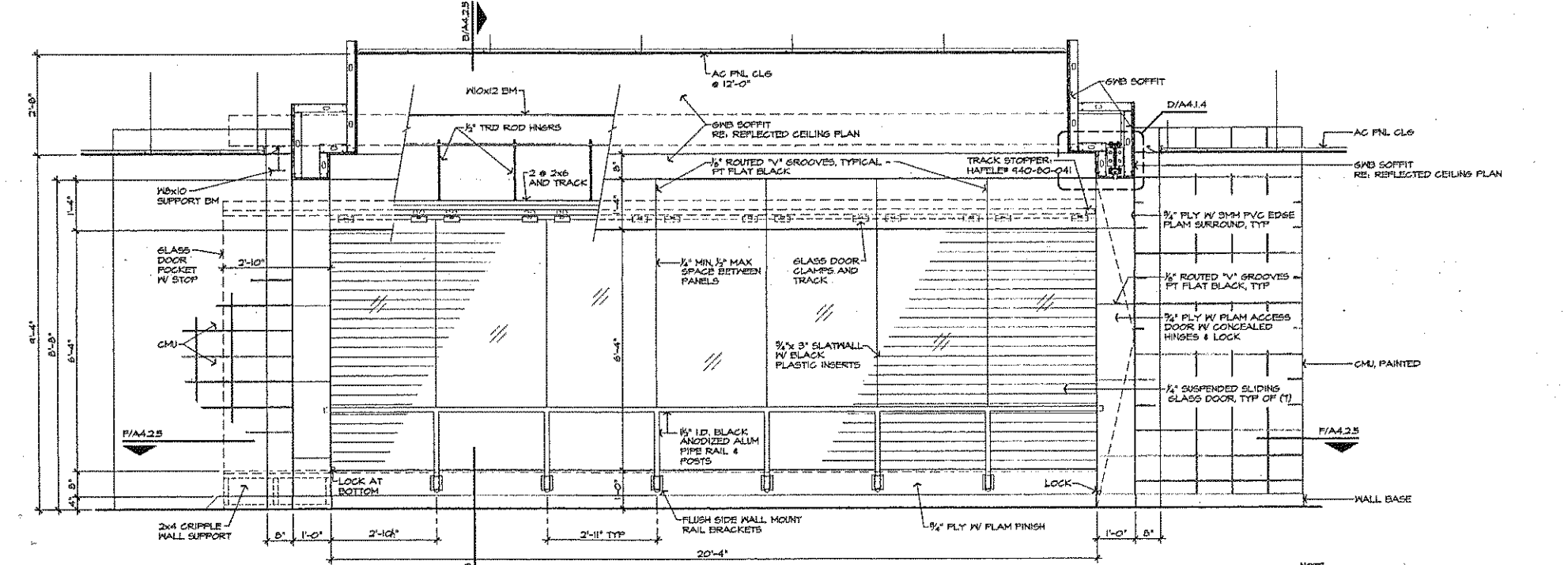


Wamego High School Improvements  
 Phase I  
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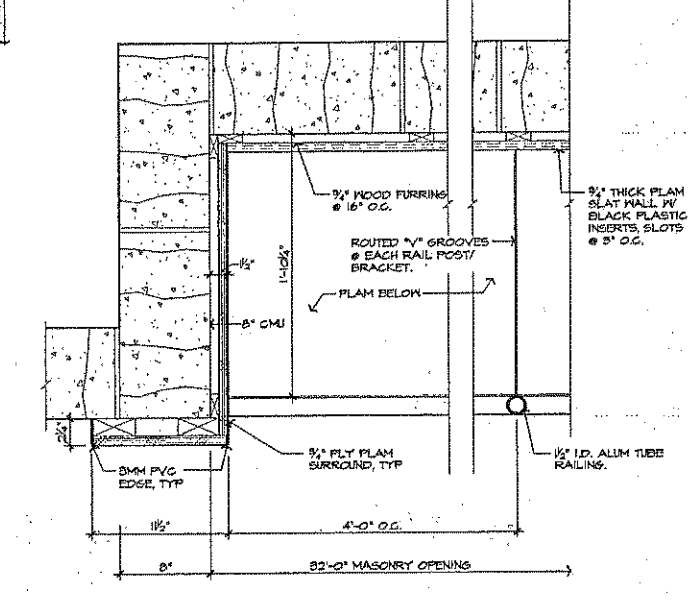
SHEET  
**A4.2.4**  
 CASEWORK  
 DETAILS



**A HALL OF FAME DISPLAY - CORRIDOR 25A**  
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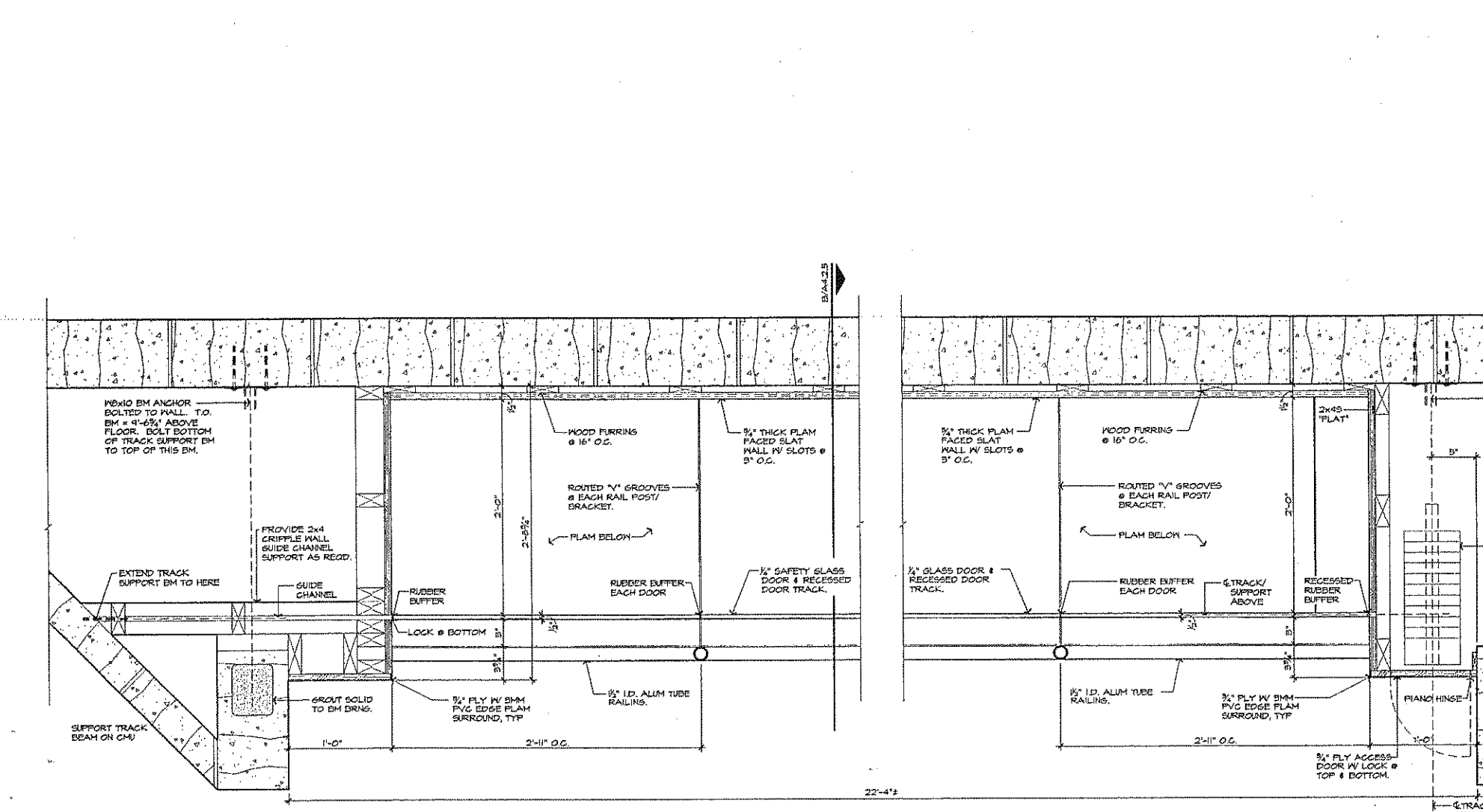


**B SECTION @ DISPLAY CASE - CORRIDOR 236**  
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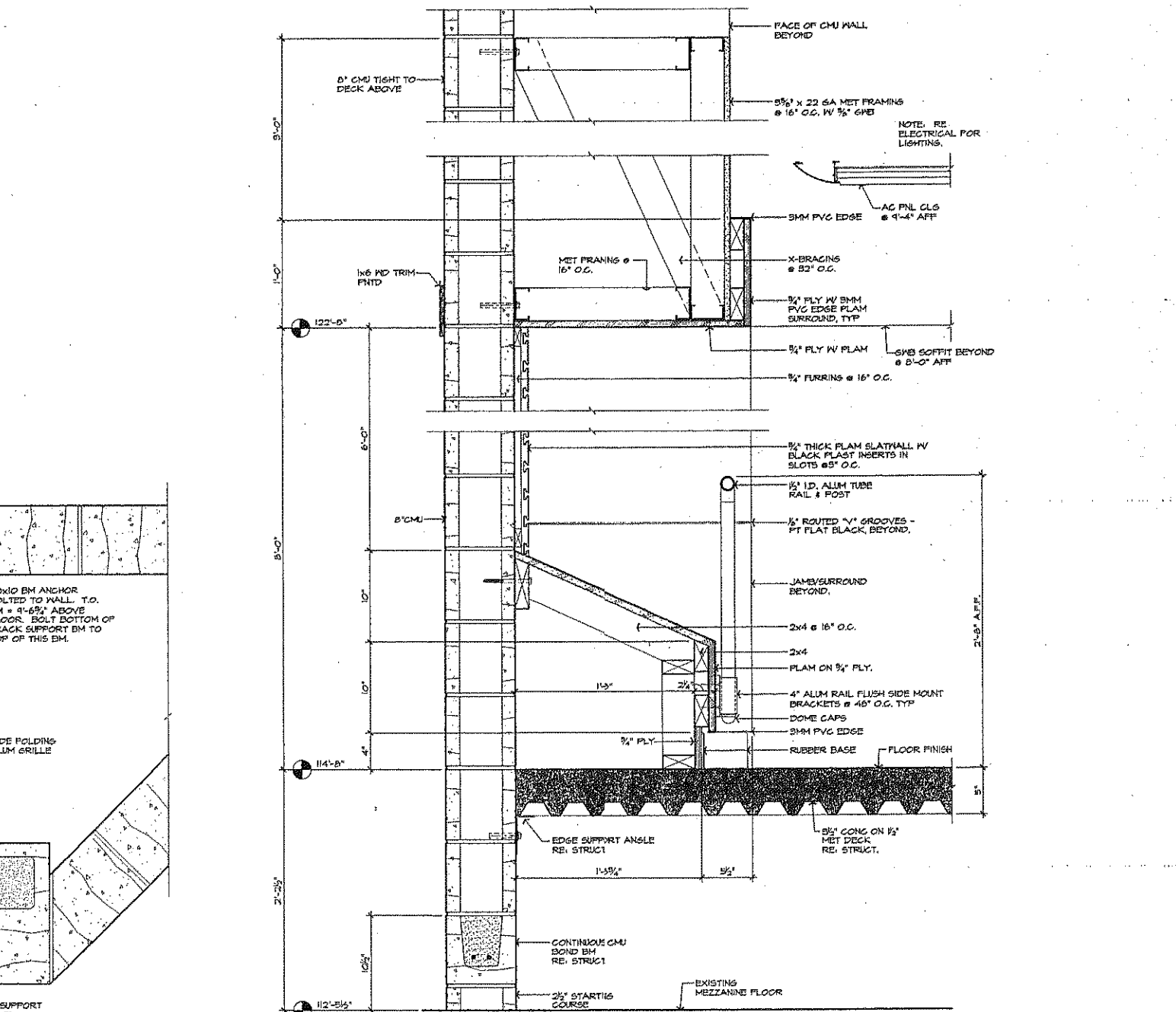


**C JAMB DTL @ HALL OF FAME DISPLAY**  
 1:1/2" = 1'-0"

**D DISPLAY CASE ELEVATION - CORRIDOR 236**  
 1:1/2" = 1'-0"



**F DISPLAY CASE PLAN CORRIDOR 236**  
 1:1/2" = 1'-0"



**G SECTION @ HALL OF FAME DISPLAY**  
 1:1/2" = 1'-0"

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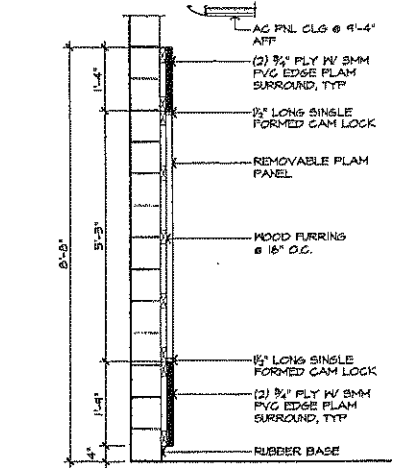
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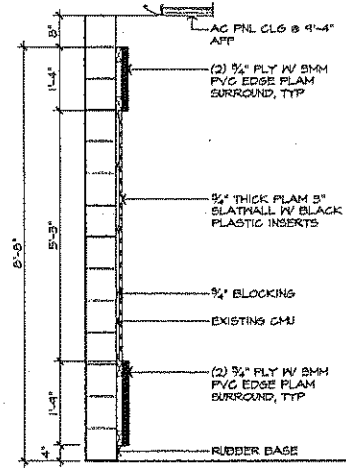
**Wamego High School Improvements Phase 1**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**A4.2.5**  
 CASEWORK DETAILS

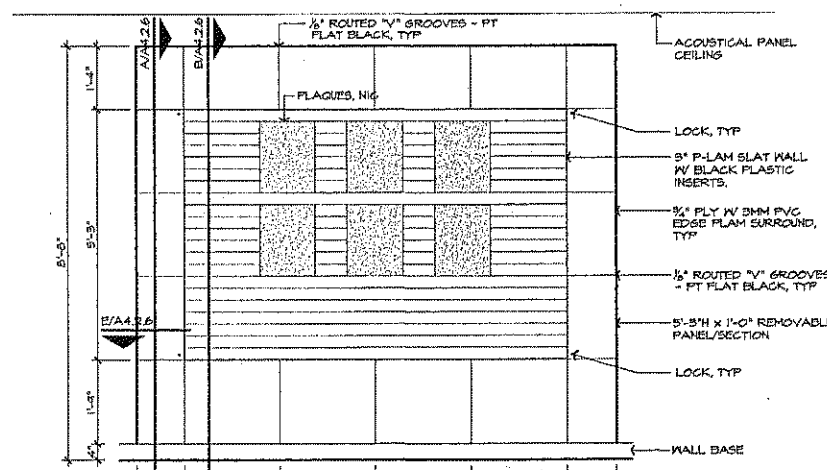
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 Manhattan, Kansas 66502  
 (785) 776-1800 (785) 776-9966 FAX



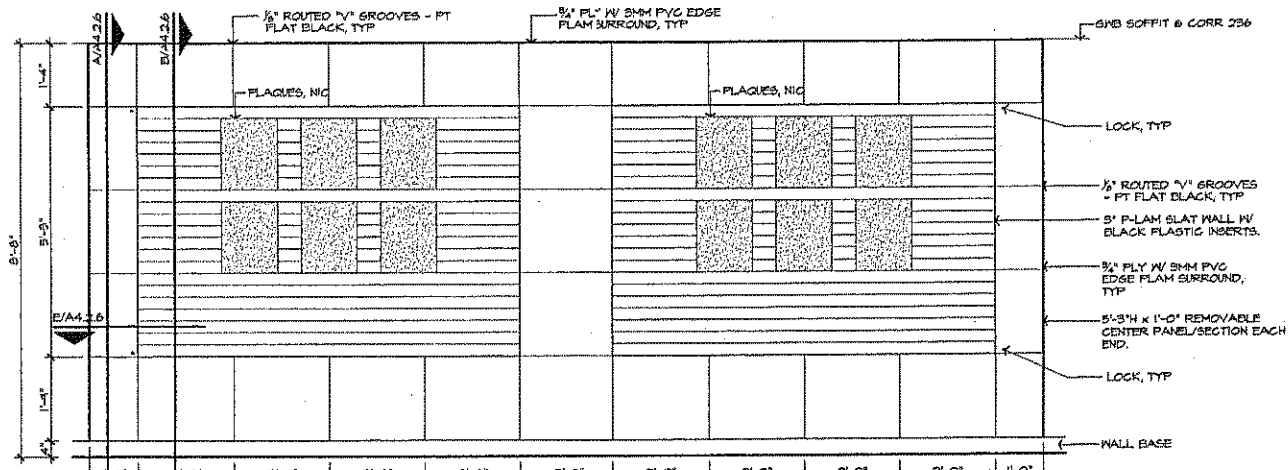
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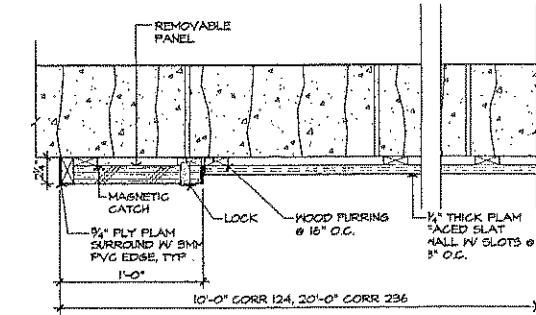
**B SECTION @ AWARD DISPLAY**  
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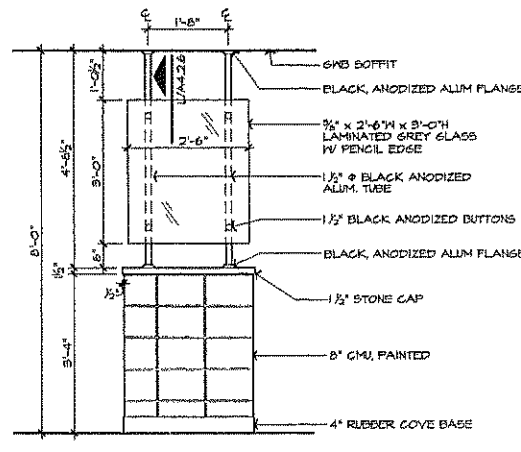
**C AWARD DISPLAY - CORRIDOR 124**  
1:0" = 1:0" (DATE: 10/29/09) (DRAWN BY: KED) (CHECKED BY: KED) (SCALE: 1:0" = 1:0")



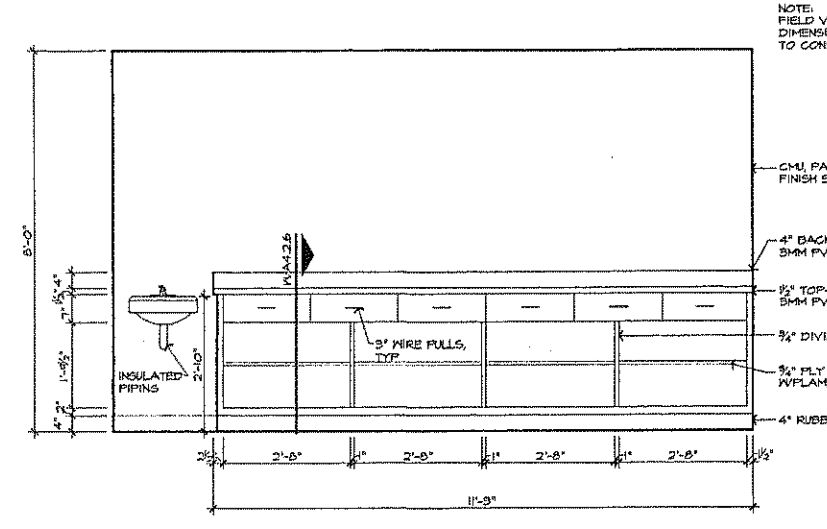
**D AWARD DISPLAY - CORRIDOR 124, 236, 243**  
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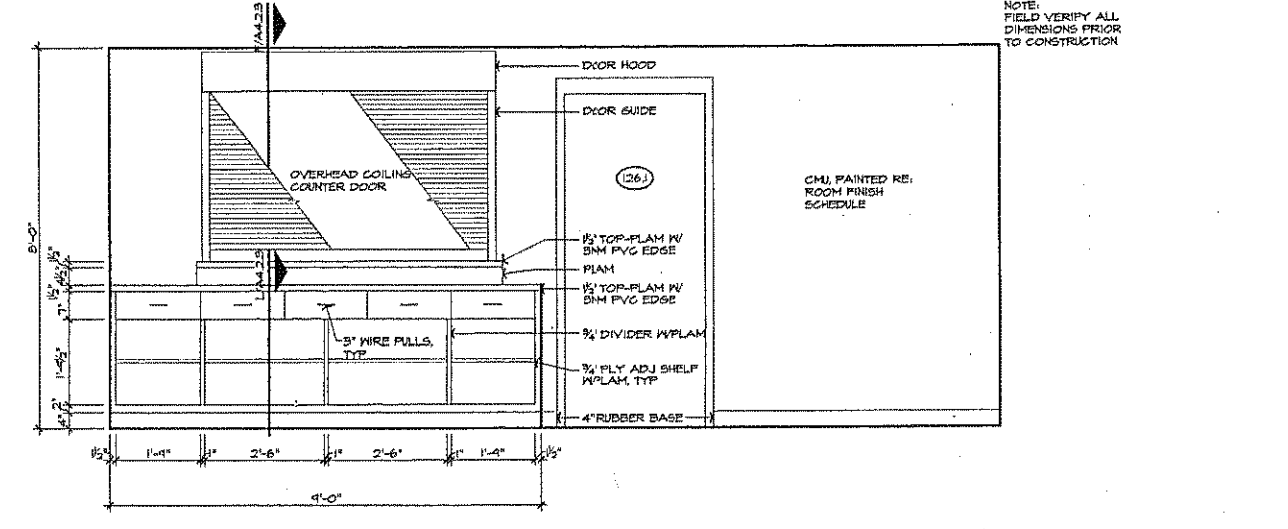
**E REMOVABLE PANEL DTL**  
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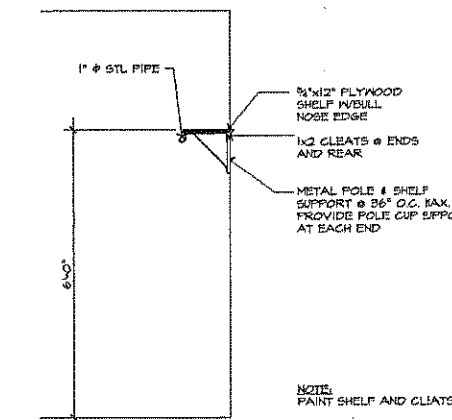
**F MENU BOARD - ROOM 124**  
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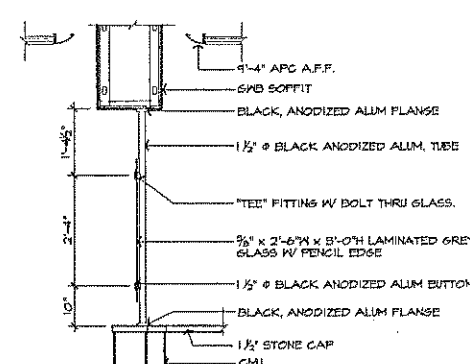
**G CONCESSIONS - RM 126**  
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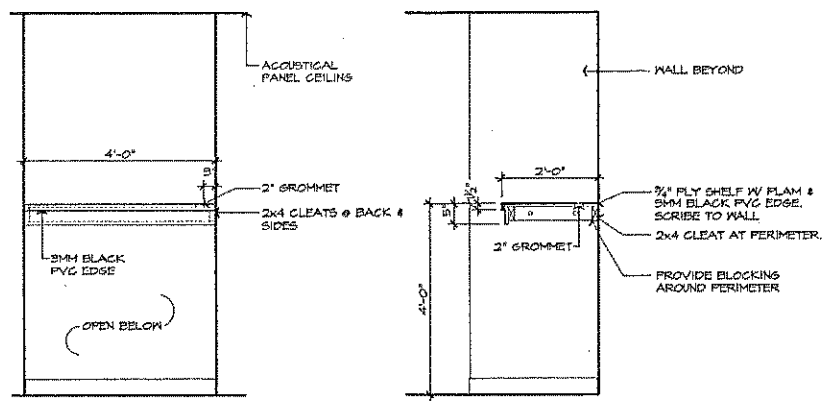
**H CONCESSIONS - RM 126**  
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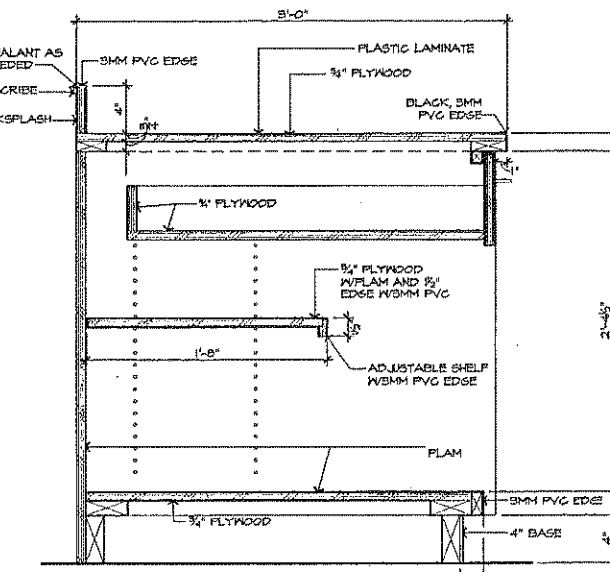
**K ROD/SHELF DETAIL**  
1:0" = 1:0" (DATE: 10/29/09) (DRAWN BY: KED) (CHECKED BY: KED) (SCALE: 1:0" = 1:0")



**L MENU BOARD SECTION - RM 124**  
1:0" = 1:0" (DATE: 10/29/09) (DRAWN BY: KED) (CHECKED BY: KED) (SCALE: 1:0" = 1:0")



**M MICROWAVE SHELF DETAILS**  
1:0" = 1:0" (DATE: 10/29/09) (DRAWN BY: KED) (CHECKED BY: KED) (SCALE: 1:0" = 1:0")



**W CONCESSION CABINET SECTION**  
1:0" = 1:0" (DATE: 10/29/09) (DRAWN BY: KED) (CHECKED BY: KED) (SCALE: 1:0" = 1:0")

Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**GENERAL SYMBOLS**

- ABV ABOVE
- ALT. ITEM BY ALTERNATE
- (BY FSC) FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR FOOD SERVICE EQUIPMENT FINISH CELLING
- CLG CONN. FC, MC, OR EC CONNECTIONS TO OR BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
- EX EXISTING
- FLR FINISH FLOOR
- FUT ITEM BY OWNER OR FUTURE
- INTERCONN FC OR EC CONNECTIONS BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
- S.O. STUB OUT FROM HALL
- SU STUB UP FROM FLOOR
- SUPP SUPPLIED

**PLUMBING/MECHANICAL SYMBOLS**

- (BY PC) FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR PLUMBING WORK
- BWF BACKFLOW PREVENTION DEVICE
- BPD BACKFLOW PREVENTION DEVICE
- C COLD WATER CONNECTION
- CLG CONN. FC OR EC CONNECTIONS TO OR BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT
- D DIRECT DRAIN CONNECTION
- DEGRS DEGREES
- DMF DECK MOUNT FAUCET
- EF EXHAUST FAN
- STANDARD FLOOR DRAIN
- FL SK/PS SANITARY FLOOR SINK WITH HALF GRATE
- H HOT WATER CONNECTION
- HW HOT WATER
- M MECHANICAL
- (BY MC) FURNISHED & INSTALLED BY THE TRADE RESPONSIBLE FOR MECHANICAL WORK
- PC PLUMBING CONNECTION BETWEEN FSC SUPPLIED/PROVIDED EQUIPMENT

**ELECTRICAL SYMBOLS**

- (BY EC) FURNISHED AND INSTALLED BY THE TRADE RESPONSIBLE FOR ELECTRICAL WORK
- EG ELECTRICAL CONNECTION
- EP 60 AMP ELECTRICAL PANEL
- ER ELECTRICAL RECEPTACLE (200V, 20A, GENERAL PURPOSE UNLESS NOTED)
- HP HORSEPOWER
- KVA KILOWATTS
- PH PHASE (SINGLE UNLESS NOTED)
- W WATTS
- HEIGHTS SHOWN TO BOTTOM OF BOX UNLESS NOTED
- 24" UNLESS NOTED
- DUPLX RECEPTACLE (200V, 20A, GENERAL PURPOSE UNLESS NOTED/ SCHEDULED OTHERWISE)
- ◇ SINGLE RECEPTACLE
- ◇ TELEPHONE OUTLET
- ◇ COMPUTER/SPECIAL COMMUNICATIONS OUTLET
- ◇ JUNCTION BOX
- ◇ MOTOR

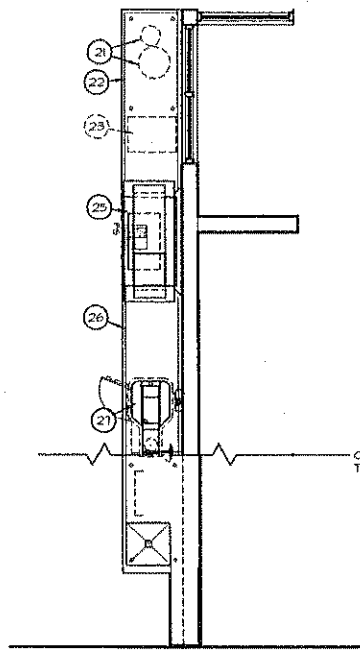
**NOTES:**

**MECHANICAL & ELECTRICAL**

IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT THE FSC WILL SUPPLY EQUIPMENT ACCESSORIES INCLUDING BUT NOT LIMITED TO PLUMBING FITTINGS, DISPOSALS, VALVES, & ELECTRICAL CONTROLS FOR INSTALLATION / CONNECTIONS BY THE TRADES PROVIDING MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN SECTION 1400. FSC WILL FURNISH SET IN PLACE, LEVEL, ANCHOR & CLEAN FOOD SERVICE EQUIPMENT READY FOR INSTALLATION OF ACCESSORIES & UTILITY CONNECTIONS / INTERCONNECTIONS BY THE TRADES RESPONSIBLE FOR MECHANICAL, PLUMBING & ELECTRICAL WORK AS SPECIFIED IN SECTION 1400.

ALL MATERIAL & LABOR FOR ROUGH-IN, INTER-CONNECTIONS & CONNECTIONS REQUIRED FOR PROPER OPERATION OF THE FOOD SERVICE EQUIPMENT & THEIR ACCESSORIES ARE BY THE MECH. PLUMB. & ELECT. CONTRACTORS UNLESS NOTED OTHERWISE. FSC WILL OVERSEE PROPER CONNECTION OF THE EQUIPMENT.

MECH. PLUMB. & ELECT. CONTRACTORS SHALL DISCONNECT ALL EQUIPMENT TO BE RELOCATED & RECONNECT IN ITS NEW LOCATION.



**1 EXISTING TRAY WASHING CONFIGURATION**

CONNECTION POINT LOCATIONS AND SIZES ARE APPROX. FOR THE BASE EQUIPMENT SPECIFIED. THEY ARE SHOWN FOR BIDDING PURPOSES ONLY. TO ESTIMATE NUMBERS AND SIZES OF POSSIBLE CONNECTIONS, THEY SHOULD NOT BE USED FOR ACTUAL ROUGH-IN OF THE BUILDING.

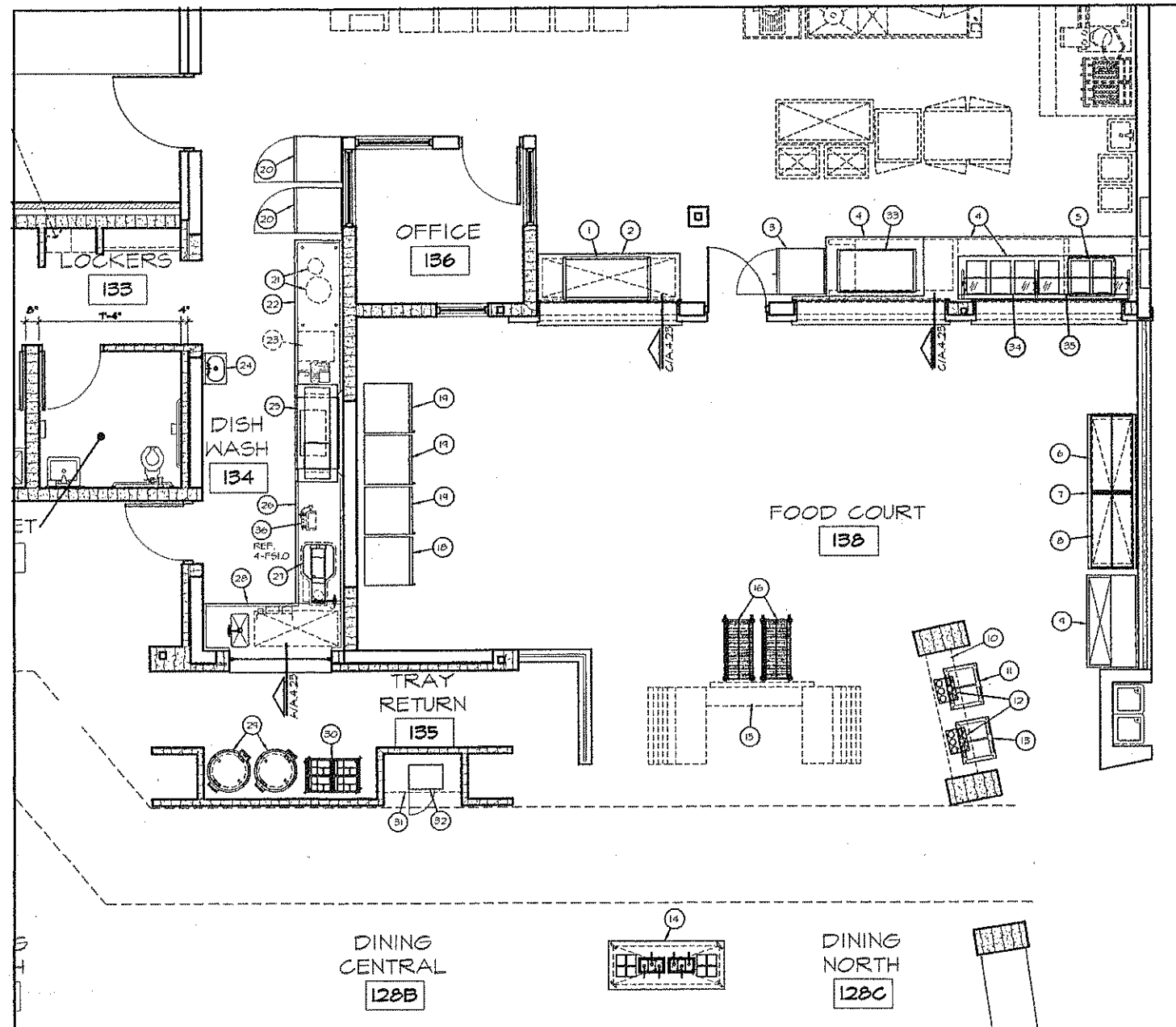
EXACT DIMENSIONED ELECTRICAL AND MECHANICAL ROUGH-IN DRAWING AND EQUIPMENT SHOP DRAWINGS ARE TO BE PROVIDED BY THE FOOD SERVICE CONTRACTOR.

HEIGHTS SHOWN ARE APPROX. TO THE CONNECTION POINT ON THE SPECIFIED BASE EQUIPMENT.

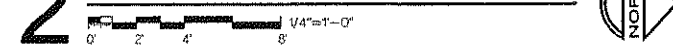
FLOOR DRAIN & FLOOR SINK GRATE TOPS SHALL BE INSTALLED FLUSH TO THE FINISHED FLOOR SURFACE WITH MAXIMUM 1/2" PERIMETER FLOOR TAPER OR DEPRESSION FROM OVERALL FLOOR PLANE. FLOOR DRAIN & SINKS ARE NOT SPECIFIED IN SECTION 1400.

MECHANICAL, PLUMBING & ELECTRICAL WORK SHALL COMPLY WITH DIVISIONS 16000 & 16000 OF THE SPECIFICATION AND OTHER APPLICABLE INFORMATION WITHIN THE CONTRACT DOCUMENTS.

REFERENCE SECTION 1400 OF THE SPECIFICATIONS FOR FURTHER INFORMATION.



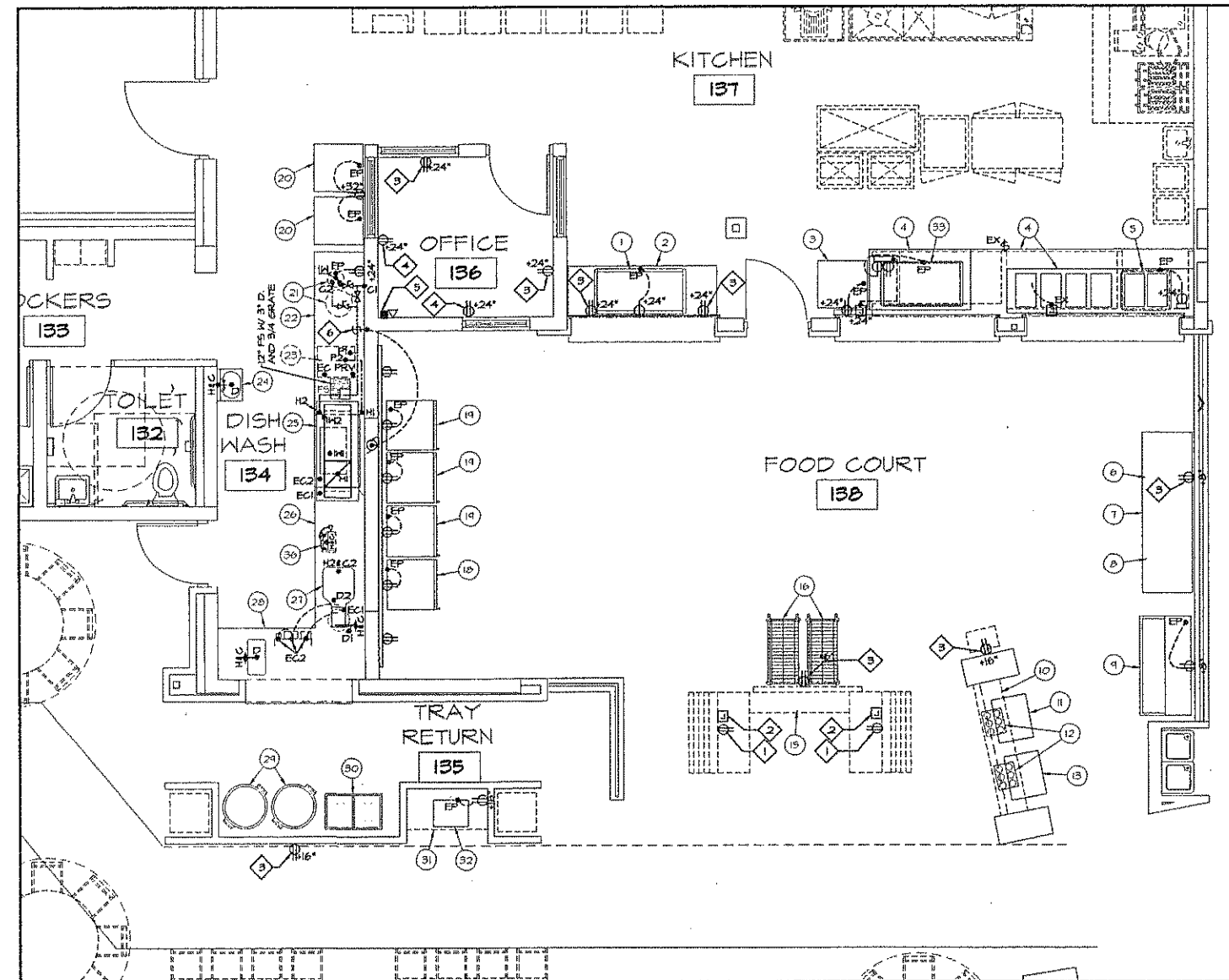
**2 FOOD SERVICE EQUIPMENT PLAN**



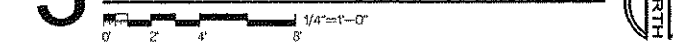
**FOOD SERVICE CONNECTION SCHEDULE**

NOTES: \* REFERS TO FOOD SERVICE CONNECTION PLAN FOR ADDITIONAL FOOD SERVICE EQUIPMENT REQUIREMENTS NOT SCHEDULED HERE-IN. SCHEDULE REFLECTS CONNECTION LOCATIONS / REQUIREMENTS, NOT SCHEDULE LOCATIONS / REQUIREMENTS.

ITEM	QTY	DESCRIPTION	ELECTRICAL				MECHANICAL				NOTES	
			TAG	VPH	KVA	HP	HT.	TAG	SIZE	BTUM		HT.
1	1	DEL. HORIZONTAL SHELF HEATED MERCHANDISER	EP	120V/1PH	2.705							WALL ER 124" RECD (BY EC) SHOWN NEMA 14-20P
2	1	1/2 HIGH HEATED HOLDING CABINET	EP	120V/1PH	0.900	1.5						WALL ER 124" RECD (BY EC) SHOWN EXISTING HOT WELLS TO REWASH CONNECTED TO EXISTING HALL J-BOX (NO CHANGE)
3	1	SERVING LINE UNIT W/ (4) HOT WELLS, OPEN SHELF BASE CABINETS, INTEGRAL TRAY SLIDE	EP	120V/1PH	1.7							SURFACE MOUNTED ER 124" RECD (BY EC) OR CABINETS IN KITCHEN
4	1	60 CASE COLD HALL MILK COOLER	EP	115V/1PH	6.3							HALL ER 114" RECD (BY EC) SHOWN COMPUTER DEDICATED ER IN BASE CABINET BELOW RECD (BY EC)
5	1	(2) POSITION CASHIERS STAND W/ LOCKING COVERS / CABINETS FOR COMPUTERS	EX	120V/1PH	20A CIRCUIT							COMPUTER DATA OUTLET IN CABINET BELOW J-BOX WITH CONDUIT TO ADV. CLG & BLANK COVER PLATE RECD (BY EC)
10	1	23 C.F. GLASS DOOR FREEZER	EP	115V/1PH	3/4	14						PLUG STRIP 16" RECD (BY EC) SHOWN
11	3	23 C.F. GLASS DOOR REFRIGERATOR	EP	115V/1PH	1/3	6						PLUG STRIP 16" RECD (BY EC) SHOWN
20	2	MOBILE HEATED BULK FOOD TRANSPORT CABINETS	EP	120V/1PH	0.900 EA	1.5 EA						HALL ER 124" RECD (BY EC) SHOWN
21	1	UNDER COUNTER HOT WATER SOFTENER	EP	120V/1PH		1.5A CIRCUIT						HALL ER 124" RECD (BY EC) SHOWN
23	1	BOOSTER HEATER	EG	410V/3PH	54							C1 3/4" IN COMING WATER CONN. W/ ISOLATION VALVES RECD (BY EC) SOFTENER WATER CONN. TO BOOSTER HEATER & DISH MACHINE WASH TANK INLET RECD (BY EC)
24	1	HAND SINK										CONN. TO BWF RECD (BY EC)
25	1	44" CONVEYOR HOT WATER SANITIZING DISH MACHINE	EG	410V/3PH	15							CONN. RECD (BY EC) ERK FAN CONTROL SHALL CHECK W/ & INTERCONN TO FAN RECD (BY EC) MOTOR'S CONN. RECD (BY EC) TANK HEATER, CONN. RECD (BY EC)
27	1	WASTE DISPOSAL SYSTEM	EG	410V/3PH	2.25	3.0						FINAL RINSE 180" INTERCONN. TO RECD (BY EC) 1/2" 1/2" RECD (BY EC) TANK FILL IN INTERCONN. TO RECD (BY EC)
28	1	TRAY RETURN DISH TABLE W/ SILVER SOAK SINK										H1 3/4 FPT 112" TANK DRAIN EXTEND TO FS (BY EC) H2 3/4 FPT 112" TANK DRAIN EXTEND TO FS (BY EC) H3 1" 124" EX. PART LEGGED DUCT OUTLET, FOOD GRIND EXH. FAN, DUCT ADV. CLG. & CONN. (BY EC)
32	1	MICROWAVE OVEN	EP	120V/1PH	20A CIRCUIT							CONN. TO DHP RECD (BY EC)
33	1	DEL. SLOPED SHELF HEATED MERCHANDISER	EP	120V/1PH	2.430							WALL ER 114" RECD (BY EC) SHOWN WALL J-BOX 124" W/ CONN. TO SURFACE MOUNTED ER'S RECD (BY EC) SHOWN
36	1	UNDER COUNTER HOSE SPRAY										CONN. RECD (BY EC) RECD (BY EC)



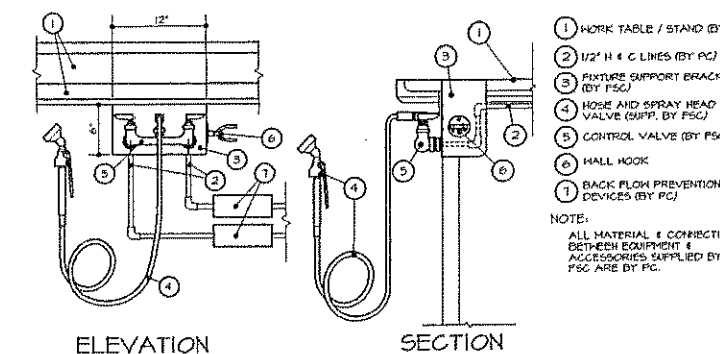
**3 KITCHEN FOOD SERVICE CONNECTION PLAN**



ITEM	QTY	DESCRIPTION
1	ONE (1)	DEL. HORIZONTAL SHELF HEATED MERCHANDISER
2	ONE (1)	88" X 30" FLAT TOP TABLE W/ UNDER SHELF
3	ONE (1)	1/2 HIGH HEATED HOLDING CABINET
3	ONE (1)	SERVING LINE UNIT W/ (4) INTEGRAL HOT WELLS, OPEN SHELF BASE CABINETS, INTEGRAL TRAY SLIDE
5	ONE (1)	DROP-IN DEL. HOT WELL
6	ONE (1)	48"L. TABLE TOP DEL. SIDED BREATH GUARD
7	ONE (1)	46"L. X 30" FLAT TOP TABLE W/ UNDER SHELF
8	ONE (1)	48"L. TABLE TOP DEL. SIDED BREATH GUARD
9	ONE (1)	(16) CASE COLD HALL MILK COOLER
10	ONE (1)	SILVER / NAPKIN DISPENSING SHELF
11	ONE (1)	MOBILE DEL. TRAY LOWRATOR / DISPENSER
12	TWO (2)	COUNTER TOP CYLINDER STYLE SILVER DISPENSERS
13	ONE (1)	MOBILE DEL. TRAY LOWRATOR / DISPENSER
14	ONE (1)	72" X 30" MOBILE CONDIMENT TABLE W/ (6) DROP-IN CONDIMENT PUMPS, (8) DROP-IN 1/6TH SIZE PANS
15	ONE (1)	(2) POSITION CASHIERS STAND W/ LOCKING COVERS / CABINETS FOR COMPUTERS
16	TWO (2)	MOBILE SLOPED SHELF MERCHANDIZING UNIT
17		NOT USED
18	ONE (1)	23 C.F. GLASS DOOR FREEZER
19	THREE (3)	23 C.F. GLASS DOOR REFRIGERATORS
20	TWO (2)	MOBILE HEATED BULK FOOD TRANSPORT CABINETS
21	ONE (1)	UNDER COUNTER HOT WATER SOFTENER
22	ONE (1)	41" CLEAN DISH TABLE
23	ONE (1)	BOOSTER HEATER
24	ONE (1)	HAND SINK
25	ONE (1)	44" CONVEYOR DISH MACHINE
26	ONE (1)	SOILED DISH TABLE W/ PRE-RINSE SPRAY
27	ONE (1)	WASTE DISPOSAL SYSTEM
28	ONE (1)	TRAY RETURN DISH TABLE W/ SILVER SOAK SINK
29	TWO (2)	55 GAL. WASTE BARRELS ON GASTER DOLLIES
30	ONE (1)	MOBILE 40 TRAY RACK
31	ONE (1)	MICROWAVE COUNTER
32	ONE (1)	MICROWAVE OVEN
33	ONE (1)	DEL. SLOPED SHELF HEATED MERCHANDISER
34	ONE (1)	41" ADJUSTABLE HT. PORTABLE BREATH GUARD
35	ONE (1)	58" ADJUSTABLE HT. PORTABLE BREATH GUARD
36	ONE (1)	UNDER COUNTER HOSE SPRAY

**PLAN NOTES**

- 1 EQUIPMENT NOT SPECIFIED IN 1400, FOOD SERVICE EQUIPMENT, REF. ARCHITECTURAL DRAWINGS.
- 2 RELOCATED EQUIPMENT (REF. SPECIFICATION)
- 3 MODIFIED EQUIPMENT (REF. SPECIFICATION)
- 4 EQUIPMENT BY OWNER / VENDOR NOT IN CONTRACT
- 5 EXISTING EQUIPMENT



**4 UNDER COUNTER SPRAY HOSE**

**CONNECTION PLAN NOTES**

- ◇ COMPUTER DEDICATED ER IN BASE CABINET BELOW RECD (BY EC)
- ◇ COMPUTER DATA OUTLET IN CABINET BELOW J-BOX WITH CONDUIT TO ADV. CLG & BLANK COVER PLATE RECD (BY EC)
- ◇ GENERAL PURPOSE HALL ER RECD (BY EC)
- ◇ COMPUTER DEDICATED HALL ER 124" RECD (BY EC)
- ◇ COMPUTER DATA OUTLET, 124" J-BOX WITH CONDUIT TO ADV. CLG & BLANK COVER PLATE RECD (BY EC)
- ◇ VENTILATION HOOD FAN SWITCH & INTERCONNECTION TO FAN RECD (BY EC)

**MHA**  
Montgomery Hoffman Associates  
Food Safety Consultants

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Topeka, Kansas 66611  
(785) 245-6996  
Fax (785) 200-4555

PROJECT NO. 4828.05  
DATE OCT. 2005  
DRAWN BY  
REVISION

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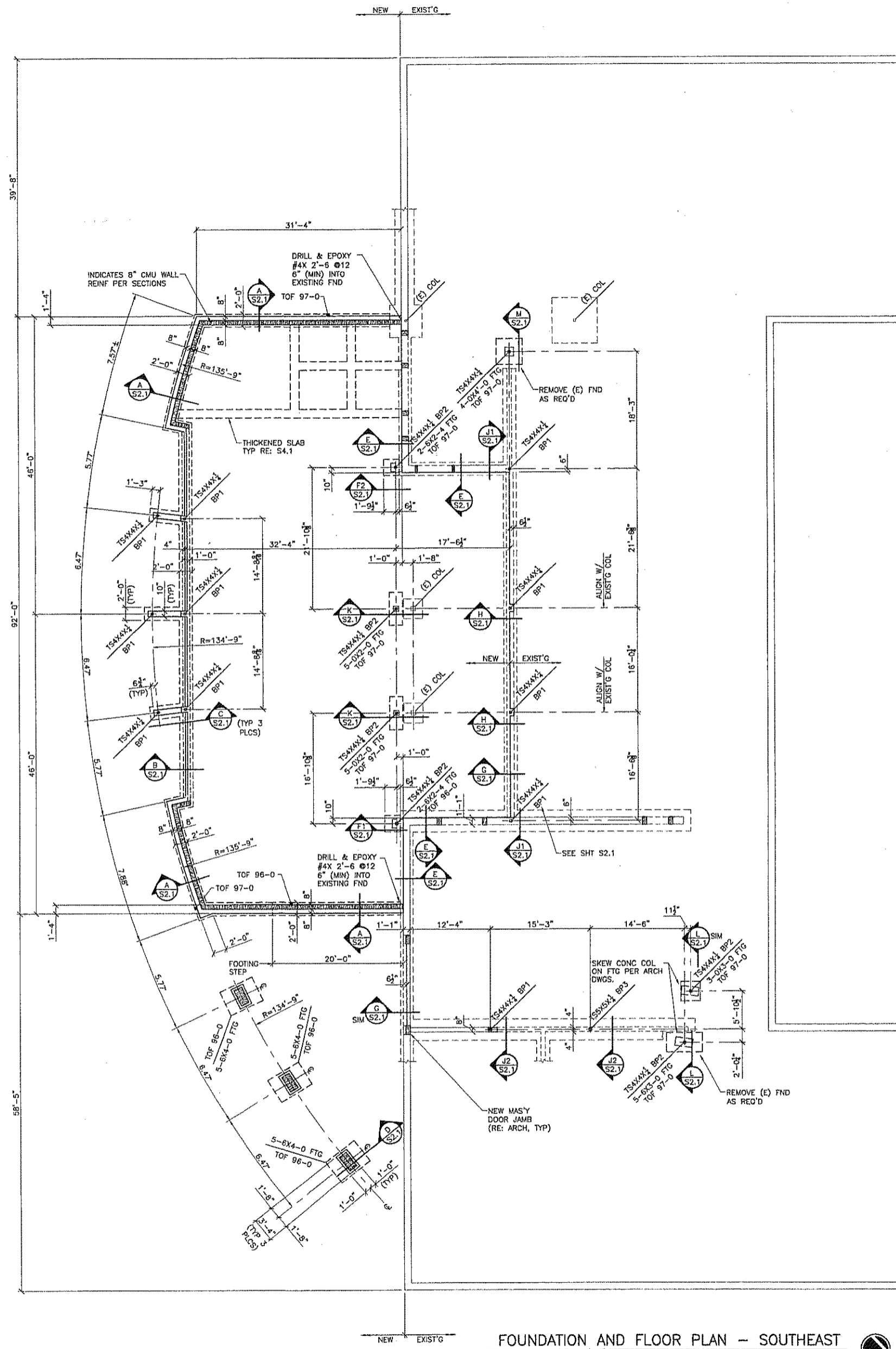
**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**FS1.0**  
FOOD SERVICE EQUIPMENT  
PLAN - SOUTHEAST

10/20/2005 7:56:23 AM

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Drawing name: F:\13020\13020\Structural\Drawings\Wamego High Phase 1\3020000 - S11 Foundation and Floor Plan SE.dwg Plotted on: Oct 06, 2003 - 09:59pm Plotted by: scs00368



**FOUNDATION AND FLOOR PLAN - SOUTHEAST**

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

FLOOR CONSTRUCTION: 4" THICK CONC SLAB ON GRADE, REINF W/ #6X - W1.4X1.4 WWF, TOP OF SLAB ELEV = 102'-0". FOR SUB-GRADE PREP SEE SPECS & GEOTECHNICAL ENGINEERING REPORT.

ELAB NOTES:

- 1) (E) INDICATES EXISTING COL OR FDN.
- 2) TOP OF FOOTING ELEVATION INDICATED THUS: TOF ELEV
- 3) FIELD VERIFY ALL DIMENSIONS RELATED TO EXISTING CONSTRUCTION PRIOR TO FABRICATION OF STRUCTURAL STEEL.

**KEY PLAN**

**BARTLETT & WEST ENGINEERS**

1500 SW EXECUTIVE DRIVE, WINTER HAVEN, FLORIDA 33880  
PHONE: 888-776-6666 FAX: 888-776-6666

PROJECT NO	092803
DATE	OCT 2003
DRAWN BY	L5A
REVISION	

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**Wamego High School Improvements**  
Phase I

Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**

**S1.1**

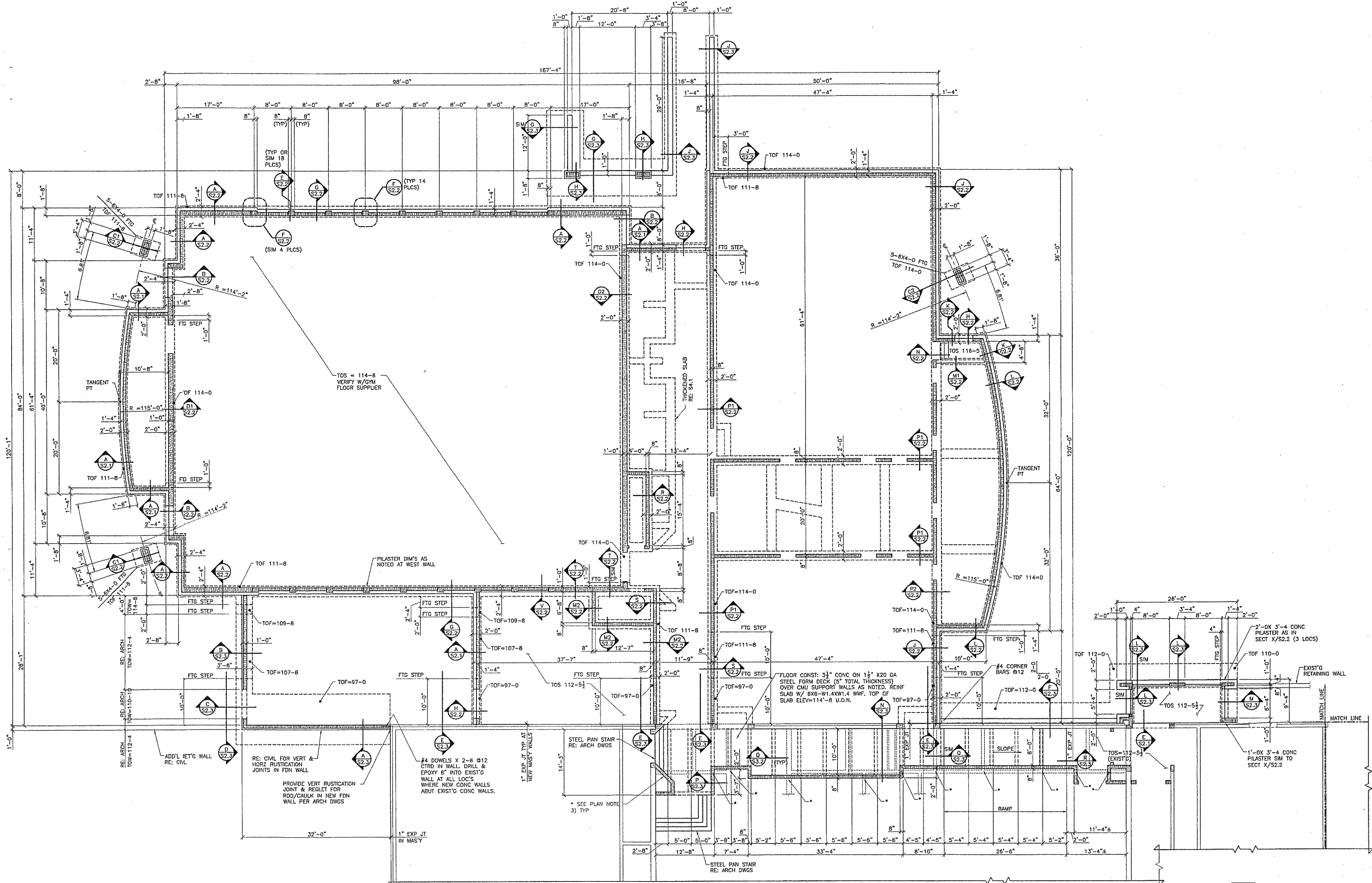
FOUNDATION & FLOOR PLAN  
SOUTHEAST

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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**S1.2**  
 FOUNDATION & SECOND FLOOR PLAN - SOUTHWEST



**FOUNDATION AND SECOND FLOOR PLAN - SOUTHWEST**  
 SCALE: 1/8" = 1'-0"

FLOOR CONSTRUCTION U.N.O.: 4" THICK CONC SLAB ON GRADE.  
 REINF W/ 6X6 = W1.4XW1.4 W/F. TOP OF SLAB ELEV = 114'-8"  
 UNLESS OTHERWISE NOTED THIS = TOS = ELEV. FOR SUBGRADE  
 PREP SEE SPECS & GEOTECHNICAL ENGR'G REPORT.

**PLAN NOTES:**

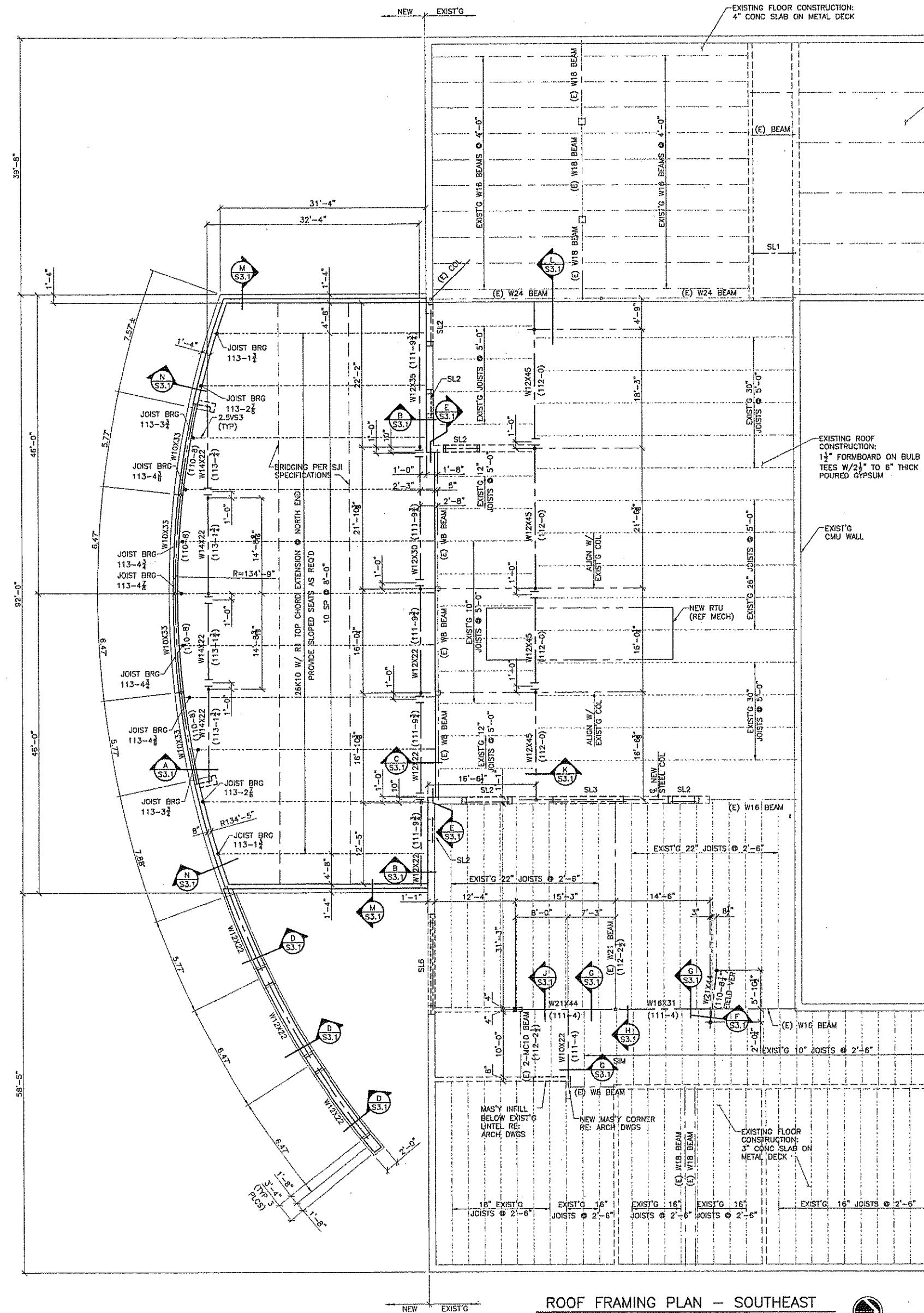
- 1) TOP OF FTG ELEVATION NOTED THUS: TOF = ELEV.
- 2) TOP OF CONC WALL NOTED THUS: TOW = ELEV.
- 3) \* INDICATES LOCATION WHERE NEW WALL DOWELS TO EXIST'G FLOOR OVER MASONRY WALL BELOW FLOOR. RE: SECT N/S2.3.

**KEY PLAN**  
  
**BARTLETT & WEST**  
 ENGINEERS  
 1800 SW EXECUTIVE DRIVE - TOPICA, KS 66540  
 PHONE 785.776.8888 FAX 785.776.7549  
 WWW.BARTLETTWEST.COM

Drawing path: F:\138200\13820000\Structural\Drawings\Wamego High Phase I\13820000 - S1.2 Foundation and Floor Plan S1.2.dwg Plotted on Oct 06, 2005 - 4:49pm Plotted by lsa00502



Drawing name: F:\1300\1982000\Structural\Drawings\Wamego High Phase 1\1982000 - S1.3 High Roof Framing Plan S1.dwg Plotted on: Oct 06, 2003 - 2:49pm Plotted by: sca00358



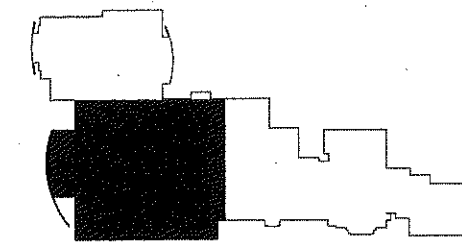
**ROOF FRAMING PLAN - SOUTHEAST**

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

ROOF CONSTRUCTION: 2" TECTUM I ROOF DECK W/ 218 BULB TEES @ 24" OVER BAR JOISTS @ 8'-0". MIN. DIAPHRAGM SHEAR CAPACITY OF ASSEMBLY = 300 LB/FT.

**PLAN NOTES:**

- 1) (E) INDICATES EXISTING BEAM OR COLUMN.
- 2) TOP OF STEEL BM ELEVATION NOTED THUS: (ELEV). SEE SHEET S3.1 FOR TYP CONNS.
- 3) FIELD VERIFY ALL DIMENSIONS RELATED TO EXISTING CONSTRUCTION PRIOR TO FABRICATION OF STRUCTURAL STEEL.
- 4) RE: SHEET S4.1 FOR LINTEL SIZES & DETAILS. STEEL LINTELS INDICATED THUS: S4.1 REINF MASONRY LINTELS INDICATED THUS: M4.1. ALL UNMARKED LINTELS SHALL BE REINF. MASONRY PER SHEET S4.1.



KEY PLAN

**BARTLETT & WEST**  
ENGINEERS

1800 W. WASHINGTON DRIVE, SUITE 1000, OMAHA, NE 68102  
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PROJECT NO 9226.03  
DATE OCT 2003  
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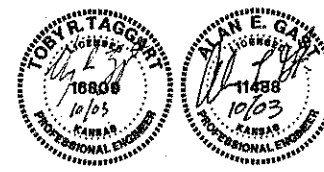
**Wamego High School Improvements  
Phase I**

Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

SHEET  
**S1.3**  
ROOF FRAMING PLAN  
SOUTHEAST

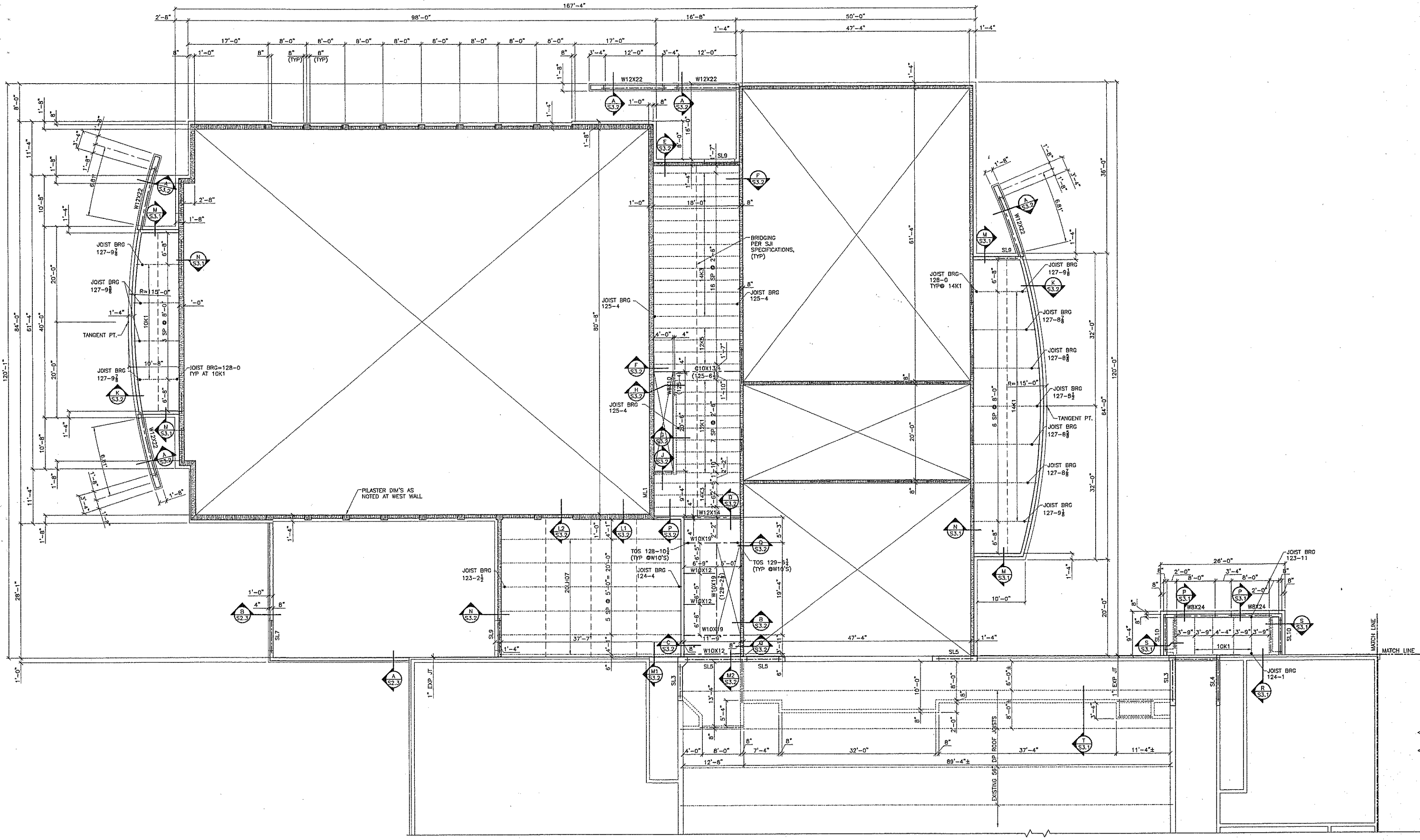
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 Manhattan, Kansas 66502  
 (785) 776-8000 (785) 776-9906 FAX



**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET S1.4**  
 MEZZANINE AND LOW ROOF FRAMING PLAN SOUTHWEST



**MEZZANINE AND LOW ROOF FRAMING PLAN - SOUTHWEST**  
 SCALE: 1/8" = 1'-0"

**MEZZANINE FLOOR CONSTRUCTION (U.N.O.):** 2 1/2" (TOTAL THICKNESS) CONCRETE OVER 3/4" X 26 GA STEEL FORM DECK OVER BAR JOIST & BEAMS AS SHOWN. REINF. SLAB W/ 6X6-W14XW1.4 WWF.  
 TOP OF SLAB ELEV = 125-9

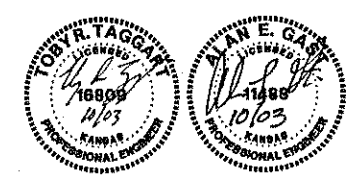
**ROOF CONSTRUCTION:** 2" TENSIFORM 200 X 18 GA (OR APPROVED EQUAL) GALVANIZED STEEL ROOF DECK OVER BAR JOISTS AND BEAMS AS SHOWN.

**PLAN NOTES:**  
 1) TOP OF STEEL BEAM ELEVATION NOTED THUS: (ELEV). SEE SHEET S3.1 FOR TYPICAL CONNS.  
 4) RE: SHEET S4.1 FOR LITEL SIZES & DETAILS. STEEL LITELS INDICATED THUS: SL#; REINF. MASONRY LITELS INDICATED THUS: ML#. ALL UNMARKED LITELS SHALL BE REINF. MASONRY PER SHEET S4.1.

**KEY PLAN**  
  
**BARTLETT & WEST ENGINEERS**  
 13202.030

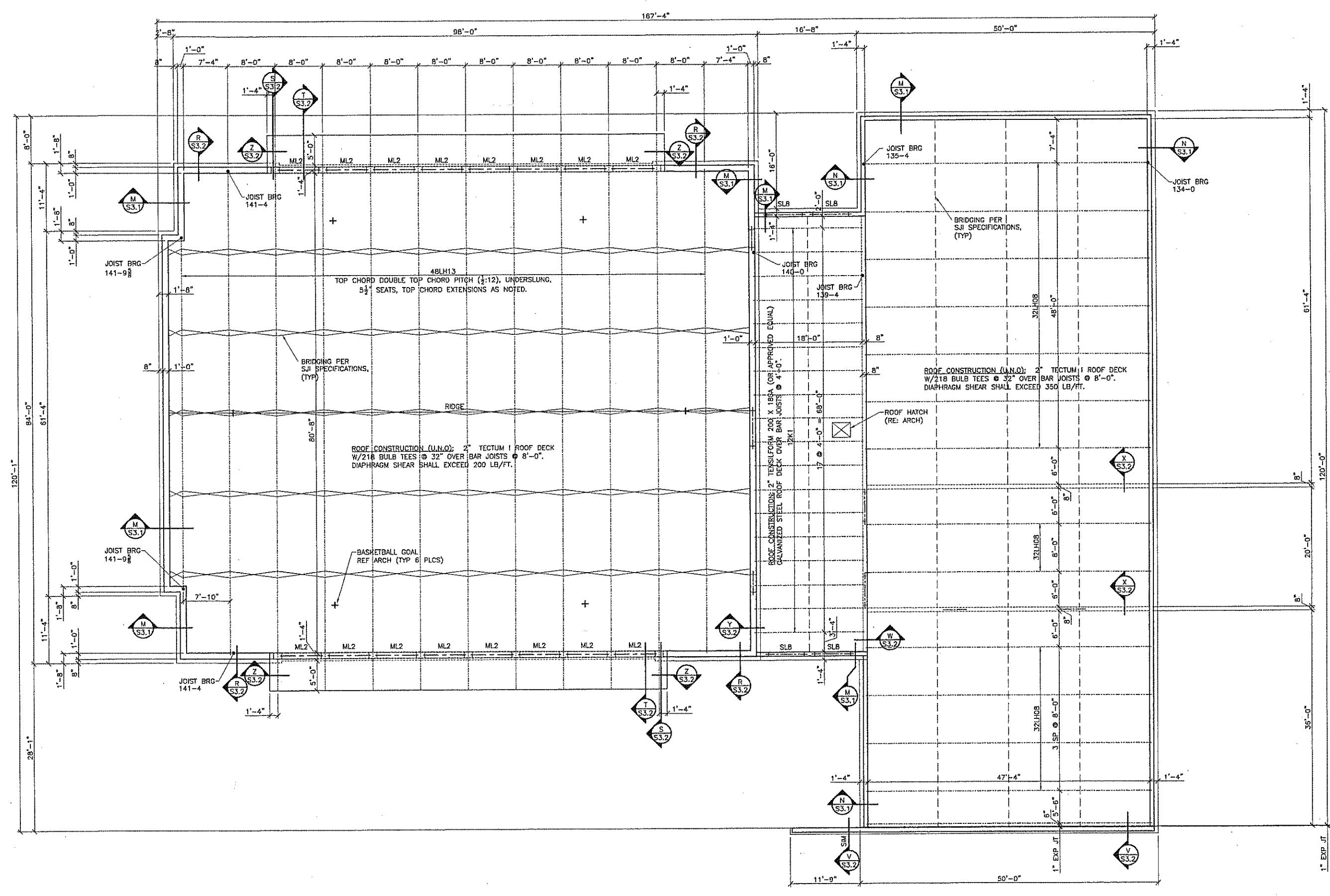
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**The Ken Ebert Design Group**  
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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**S1.5**  
 HIGH ROOF FRAMING PLAN  
 SOUTHWEST



**HIGH ROOF FRAMING PLAN - SOUTHWEST**

SCALE: 1/8" = 1'-0"  
 PLAN NOTES:  
 1) RE: SHEET S4.1 FOR LINTEL SIZES & DETAILS. STEEL LINTELS INDICATED THUS: SL#; REINF MASONRY LINTELS INDICATED THUS: ML#. ALL UNMARKED LINTELS SHALL BE REINF. MASONRY PER SHEET S4.1.

**KEY PLAN**  
**BARTLETT & WEST**  
 ENGINEERS  
 13820.000

Drawing name: F:\13820\13820.000\Structural\Drawings\Wamego High Phase I\3820.000 - S1.5 High Roof Framing Plan SW.dwg Plotted on Oct 06, 2003 - 3:44pm Plotted by: lsa02032

# Wamego High School Improvements - Phase I

Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, KS 66547

Project No. 9928.03  
October, 2003

## Design Team

 **The Ken Ebert Design Group**  
Architects and Planning Consultants  
1115 Westport Drive, Suite F  
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## Montgomery Hoffman Associates

**Food Facility Consultants**  
2400 SW 29th St., Ste 122, Topeka, KS 66611  
(785) 266-5696 Fax (785) 266-4655

## Owner

### Board of Education

Kim Mertz  
Richie Chrest  
Mike Robinson  
Sue McNickle  
Mike Norton  
Janet Armstead  
Richard Welkelman

### Superintendent

Doug Conwell  
Principal, High School  
Donna Workman

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G1.2 General Information & Phase I Exiting Plan  
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G1.3.2 Code Footprint

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C2.1 Site Demolition  
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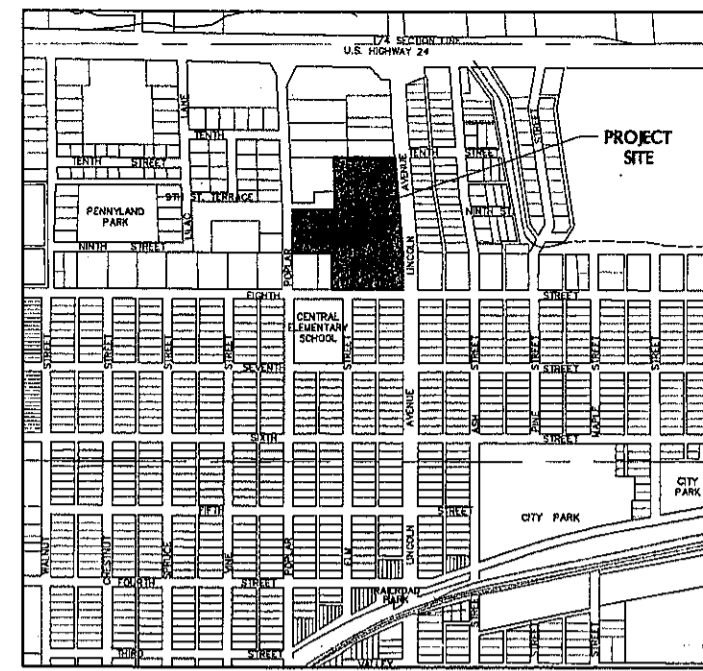
### Telecommunications

T1.1 First Floor Improvement Plan - Southeast - Telecommunications  
T1.2 Second Floor Improvement Plan - Southwest - Telecommunications  
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SHEET

G1.1

COVER SHEET



PROJECT LOCATION MAP

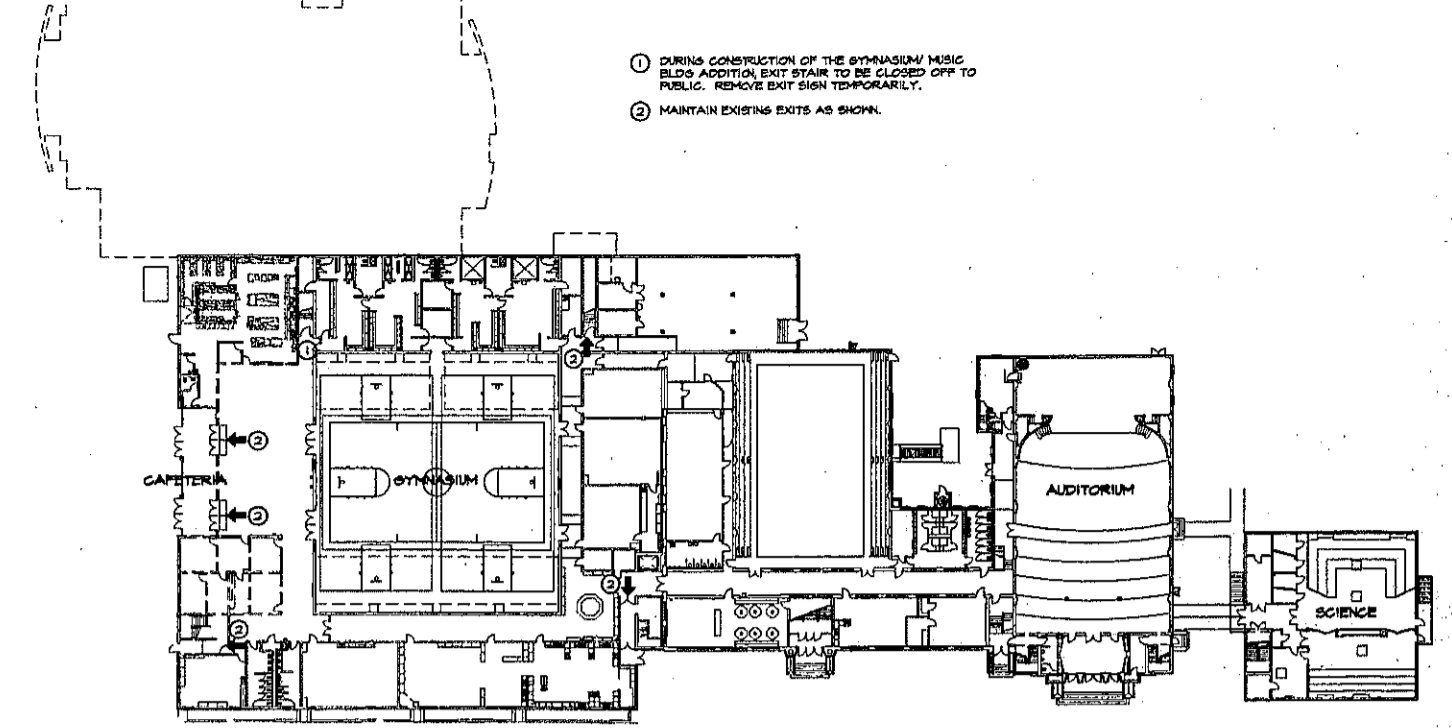
NO SCALE



Abbreviations			
4	ANGLE	FD	FLOOR DRAIN
AL	ALUMINUM	FIN	FOUNDATION
ALJ	ALUMINUM JOINT	FE	FIRE EXTINGUISHER
ALP	ALUMINUM PANEL	FC	FIRE EXTINGUISHER CABINET
ALR	ALUMINUM RAIL	FL	FLOOR FINISH
ALU	ALUMINUM	FLR	FLOOR
ALV	ALUMINUM VENT	FT	FOOT
ALW	ALUMINUM WINDOW	FTS	FOOTING
AMP	ACQUISITION PANEL	GA	GAUSE
APC	ACQUISITION PANEL CELL	GAL	GALLON
APJ	ADJUSTABLE JOINT	GALV	GALVANIZED
APF	ADJUSTABLE PANEL FINISH	GB	GRAB BAR
AQ	AIR QUALITY	GL	GLASS
AU	AIR UNIT	GR	GRASS
AV	ALTERNATE VENT	GRB	GYPSUM BOARD
AVP	ALTERNATE VENT PANEL	GRS	GRASS
B	BOARD	SYP	GYPSUM
BKS	BLOCKING	H	HIGH
BM	BENCH MARK	HD	HOSE BIBB
BO	BOTTOM	HC	HANDICAPPED
BP	BOTTOM PANEL	HCN	HEAD
BR	BRICK	HWD	HARDWOOD
BU	BUILT UP	HM	HOLLOW METAL
C	CENTRAL	HOR	HORIZONTAL
CJ	CONTROL JOINT	HT	HEIGHT
CL	CLEAR	IMP	IMPROVEMENT
CLG	CLEARANCE	INS	INSULATION
CLJ	CLEARANCE JOINT	INSU	INSULATION
CLP	CLEARANCE PANEL	INT	INTERIOR
CLT	CLEARANCE TRAIL	ISO	ISOTHERMIC
CLV	CLEARANCE VENT	ISO	ISOTHERMIC
CLW	CLEARANCE WINDOW	JAN	JANITOR
CLX	CLEARANCE WINDOW	JST	JOINT
CLY	CLEARANCE WINDOW	JT	JOINT
CLZ	CLEARANCE WINDOW	L	LENGTH
CL1	CLEARANCE WINDOW	LAV	LAVATORY
CL2	CLEARANCE WINDOW	LBS	POUNDS
CL3	CLEARANCE WINDOW	LF	LINEAL FOOT
CL4	CLEARANCE WINDOW	LT	LENGTH
CL5	CLEARANCE WINDOW	MAB	MASONRY
CL6	CLEARANCE WINDOW	MAT	MATERIAL
CL7	CLEARANCE WINDOW	MAX	MAXIMUM
CL8	CLEARANCE WINDOW	MD	MEDIUM DENSITY OVERLAY
CL9	CLEARANCE WINDOW	MECH	MECHANICAL
CL10	CLEARANCE WINDOW	MET	METAL
CL11	CLEARANCE WINDOW	MEZ	MEZZANINE
CL12	CLEARANCE WINDOW	MFR	MANUFACTURER
CL13	CLEARANCE WINDOW	MIN	MINIMUM
CL14	CLEARANCE WINDOW	MISC	MISCELLANEOUS
CL15	CLEARANCE WINDOW	MO	MASONRY OPENING
CL16	CLEARANCE WINDOW	MR	MIRROR
CL17	CLEARANCE WINDOW	MUL	MULLION
CL18	CLEARANCE WINDOW	NA	NOT APPLICABLE
CL19	CLEARANCE WINDOW	NC	NOT IN CONTRACT
CL20	CLEARANCE WINDOW	NOM	NOMINAL
CL21	CLEARANCE WINDOW	NTS	NOT TO SCALE
CL22	CLEARANCE WINDOW	OC	ON CENTER
CL23	CLEARANCE WINDOW	OCV	ON CENTER, VERTICALLY
CL24	CLEARANCE WINDOW	OD	OUTSIDE DIAMETER
CL25	CLEARANCE WINDOW	OP	OPENING
CL26	CLEARANCE WINDOW	OPP	OPPOSITE
CL27	CLEARANCE WINDOW	PC	PIECE
CL28	CLEARANCE WINDOW	PL	PLYWOOD
CL29	CLEARANCE WINDOW	PLD	PLYWOOD
CL30	CLEARANCE WINDOW	PLN	PLAN
CL31	CLEARANCE WINDOW	PLT	PANEL
CL32	CLEARANCE WINDOW	PNT	PAINT
CL33	CLEARANCE WINDOW	PNF	PAINT, FLAT FINISH
CL34	CLEARANCE WINDOW	PNF	PAINT, FLAT FINISH
CL35	CLEARANCE WINDOW	PNF	PAINT, SEMI-GLOSS FINISH
CL36	CLEARANCE WINDOW	PNF	PAINT, SEMI-GLOSS FINISH
CL37	CLEARANCE WINDOW	PNF	PAINT, SEMI-GLOSS FINISH
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CL98	CLEARANCE WINDOW	PNF	PAINT, SEMI-GLOSS FINISH
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CL100	CLEARANCE WINDOW	PNF	PAINT, SEMI-GLOSS FINISH

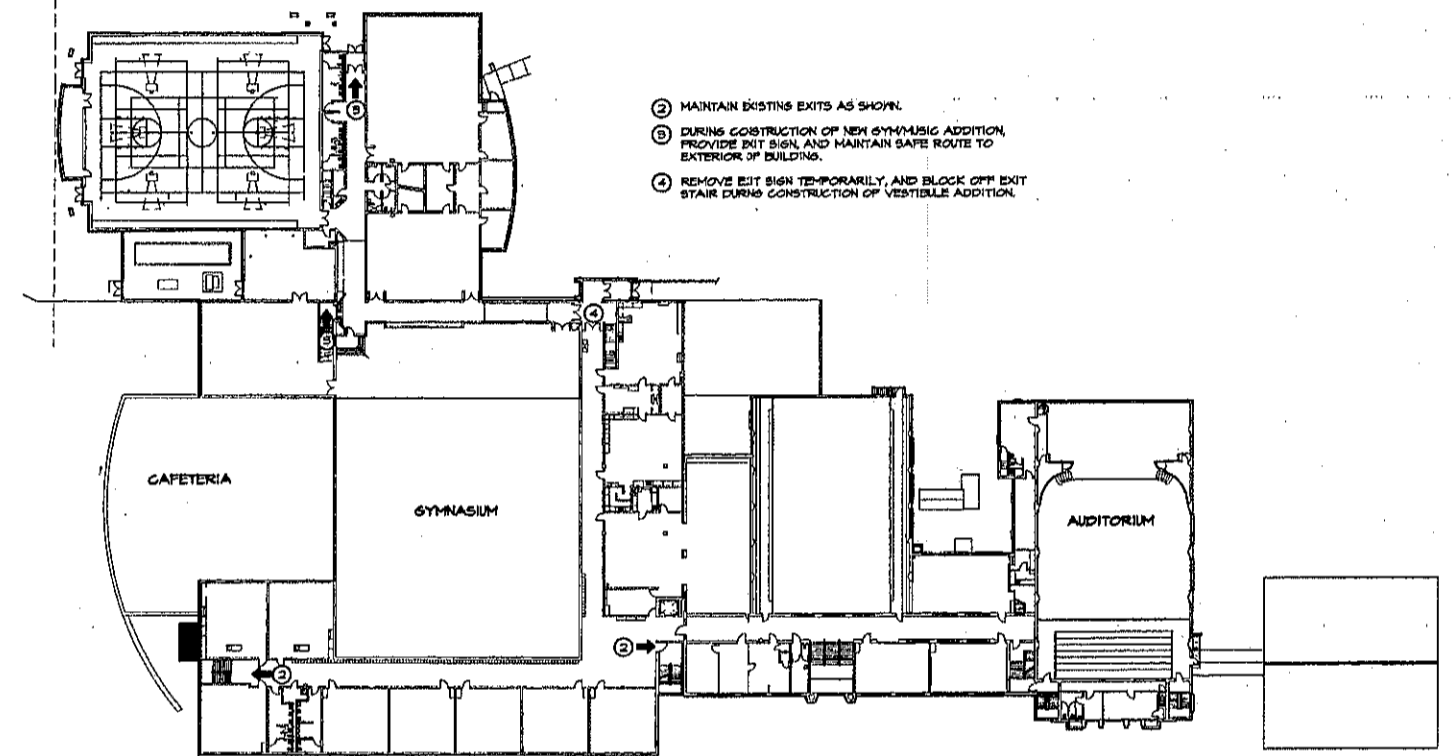
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ROOM NUMBER	100	CONTROL JOINT, BOTH WAYS	↔↔
WINDOW NUMBER	(10)	ELEVATION TAG	100'-0"
DOOR NUMBER	(01)	T.O. WALL	—
ELEVATION TAG	(A/1)	HALL TYPE (NON RATED)	◊
BUILDING SECTION TAG	(A/1)	HALL TYPE (0-HR RATED)	◊
MALL SECTION TAG	(A/1)	DETAIL REFERENCE	(A)
DETAIL REFERENCE	(A/1)	DETAIL DESCRIPTION	DETAIL

Materials Legend			
PLYWOOD	[Symbol]	METAL STUD WALL	[Symbol]
FINISHED WOOD	[Symbol]	IV GNB	[Symbol]
ROUGH FRAMING	[Symbol]	CMU WALL	[Symbol]
WOOD BLOCKING	[Symbol]	STANDARD BRICK	[Symbol]
RIGID INSULATION	[Symbol]	VENEER	[Symbol]
JOINT FILLER	[Symbol]	ACCENT BRICK	[Symbol]
STEEL	[Symbol]	VENEER	[Symbol]
ACCENT BRICK	[Symbol]	STONE VENEER	[Symbol]
UTILITY BRICK	[Symbol]	GYPSUM WALL BOARD	[Symbol]
CMU	[Symbol]		
CONCRETE	[Symbol]		
STONE	[Symbol]		



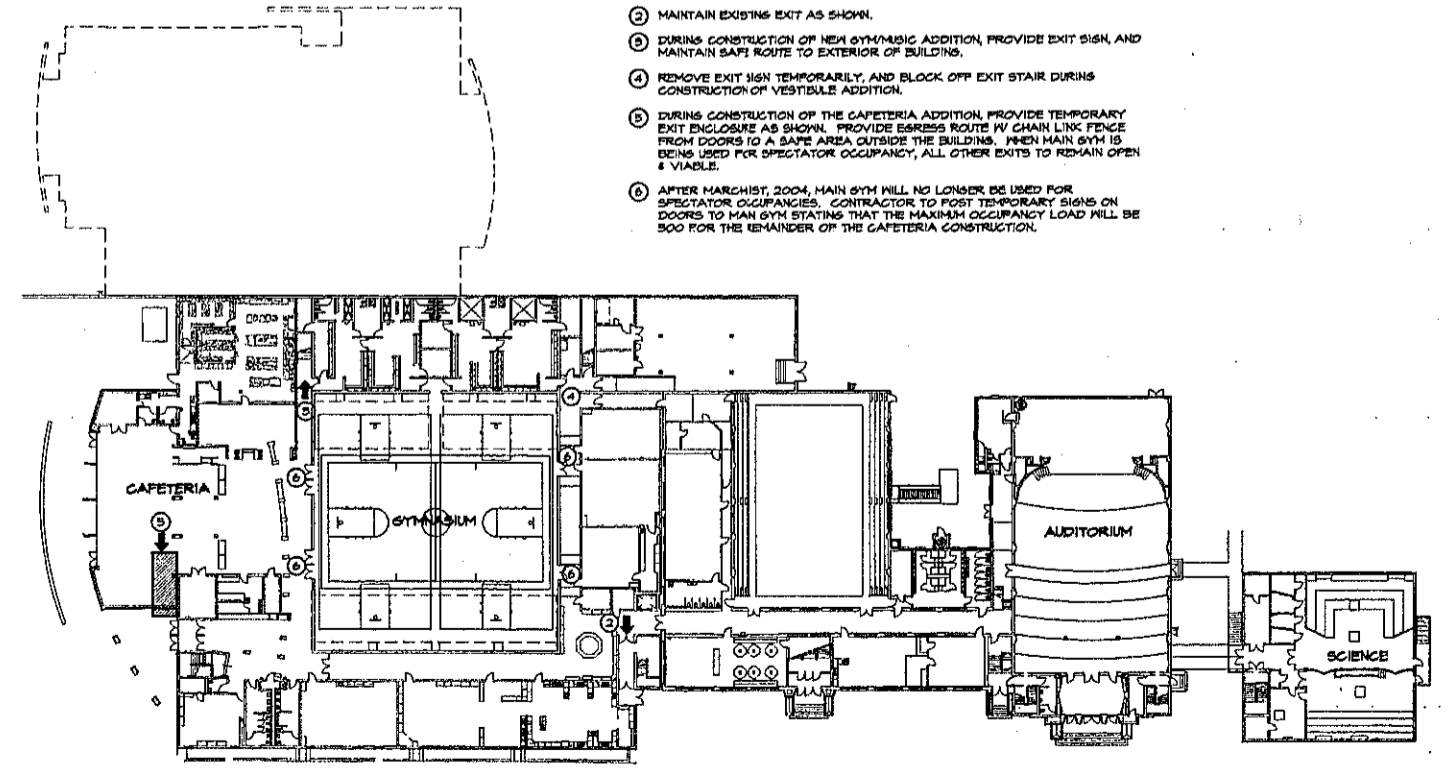
EXITING PLAN - FIRST FLOOR - STAGE I

1" = 40'-0"



EXITING PLAN - SECOND FLOOR - STAGE II

1" = 40'-0"



EXITING PLAN - FIRST FLOOR - STAGE III

1" = 40'-0"



- 1 DURING CONSTRUCTION OF THE GYMNASIUM MEIG BLDG ADDITION, EXIT STAIR TO BE CLOSED OFF TO PUBLIC. REMOVE EXIT SIGN TEMPORARILY.
- 2 MAINTAIN EXISTING EXITS AS SHOWN.

- 2 MAINTAIN EXISTING EXITS AS SHOWN.
- 3 DURING CONSTRUCTION OF NEW GYMNASIUM ADDITION, PROVIDE EXIT SIGN AND MAINTAIN SAFE ROUTE TO EXTERIOR OF BUILDING.
- 4 REMOVE EXIT SIGN TEMPORARILY, AND BLOCK OFF EXIT STAIR DURING CONSTRUCTION OF VESTIBULE ADDITION.

- 2 MAINTAIN EXISTING EXIT AS SHOWN.
- 3 DURING CONSTRUCTION OF NEW GYMNASIUM ADDITION, PROVIDE EXIT SIGN AND MAINTAIN SAFE ROUTE TO EXTERIOR OF BUILDING.
- 4 REMOVE EXIT SIGN TEMPORARILY, AND BLOCK OFF EXIT STAIR DURING CONSTRUCTION OF VESTIBULE ADDITION.
- 5 DURING CONSTRUCTION OF THE CAFETERIA ADDITION, PROVIDE TEMPORARY EXIT ENCLOSURE AS SHOWN. PROVIDE BARBER ROUTE BY CHAIN LINK FENCE FROM DOORS TO A SAFE AREA OUTSIDE THE BUILDING. WHEN MAIN GYM IS BEING USED FOR INSPECTOR OCCUPANCY, ALL OTHER EXITS TO REMAIN OPEN & VISIBLE.
- 6 AFTER MARCH 2004, MAIN GYM WILL NO LONGER BE USED FOR INSPECTOR OCCUPANCY. CONTRACTOR TO POST TEMPORARY SIGNS ON DOORS TO MAIN GYM STATING THAT THE MAXIMUM OCCUPANCY LOAD WILL BE 500 FROM THE REMAINDER OF THE CAFETERIA CONSTRUCTION.

NOTE: FIRE WATCH TO BE REQUIRED ANY TIME FLAME CUTTING OR WELDING OPERATIONS ARE IN PROGRESS.

PROJECT NO 4128.03  
DATE OCT 2003  
DRAWN BY  
REVISION

The Ken Ebert Design Group  
Architects and Planning Consultants  
1125 Westport Drive, Suite F  
Manhattan, Kansas 66502  
(785) 774-8800 (785) 774-9906 FAX



Wamego High School Improvements  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

SHEET  
G1.2  
GENERAL INFORMATION & PHASE I - EXITING PLAN

The Ken Ebert Design Group  
 Architects and Planning Consultants  
 115 Westport Drive Suite 100  
 Wamego, MO 64689  
 (785) 776-8000 (785) 776-9906 FAX



Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**GENERAL INFORMATION**  
**BUILDING INFORMATION**  
 FACILITY: WAMEGO HIGH SCHOOL  
 801 LINCOLN STREET  
 WAMEGO, KANSAS 66547  
 COUNTY: POTTAWATOMIE  
 OWNER: USD 320, WAMEGO, KS  
 500 E. HWY. 24  
 WAMEGO, KANSAS 66547  
 783-656-7343  
 AUTHORITIES HAVING JURISDICTION: KANSAS STATE FIRE MARSHAL'S OFFICE  
 700 S.W. JACKSON  
 TOPEKA, KANSAS 66603  
 KANSAS STATE DEPT. OF EDUCATION SCHOOL FACILITIES OFFICE  
 100 S.E. 10TH AVENUE  
 TOPEKA, KANSAS 66612  
 LOCAL FIRE DEPARTMENT: WAMEGO FIRE DEPARTMENT  
 WAMEGO, KANSAS 66547

**APPLICABLE CODES AND STANDARDS**  
 2000 INTERNATIONAL BUILDING CODE  
 2000 INTERNATIONAL PLUMBING CODE  
 2000 INTERNATIONAL FUEL GAS CODE  
 2000 INTERNATIONAL MECHANICAL CODE  
 2000 INTERNATIONAL ENERGY CONSERVATION CODE  
 1999 NATIONAL ELECTRICAL CODE  
 2000 INTERNATIONAL FIRE CODE

**CODE FOOTPRINT PRODUCTION NOTES**  
 MEASUREMENTS, QUANTITIES AND SQUARE FOOT VALUES GIVEN ARE BASED UPON ORIGINAL BUILDING PLANS AND WANDER FIELD VERIFICATION. DISCREPANCIES WITH THESE MEASUREMENTS WHERE TAKEN AT THE MOST RESTRICTIVE FOOTPRINT OBSERVED.

**BUILDING CODE REQUIREMENT SUMMARY**  
 PRIMARY OCCUPANCY TYPE: EDUCATIONAL, GROUP D, CLASSROOMS FOR EDUCATIONAL PURPOSES THROUGH 12TH GRADE  
 ACCESSORY OCCUPANCIES: ASSEMBLY, A-1; AUDITORIUM WITH SEATED ASSEMBLY, A-2; CAFETERIA, ASSEMBLY, A-3; DINING ROOMS, LUNARIES, CLASSROOMS WITH OCCUPANT LOADS OVER 50

**CONSTRUCTION TYPE**  
 BUILDING 1 (NORTH), TYPE III B  
 BUILDING 2 (SOUTH), TYPE III B

**FIRE RESISTIVE REQUIREMENTS (BASED ON TABLE 601)**  
 STRUCTURAL FRAME: 0 HR  
 BEARING WALLS - EXTERIOR: 2 HR  
 BEARING WALLS - INTERIOR: 0 HR  
 NON-BEARING WALL PARTITIONS: 0 HR (30 FT)  
 FLOOR CONSTRUCTION: 0 HR  
 ROOF CONSTRUCTION: 0 HR  
 SHAWT-CUT ENCLOSURES: 1 HR  
 EXTERIOR OPENINGS: 0 HR (30 FT)

**SEPARATION BETWEEN OCCUPANCY GROUPS (TABLE 302.3.3) AND INCIDENTAL USE AREAS (TABLE 302.1.1)**  
**INCIDENTAL OCCUPANCIES**  
 (ACCESSORY USES ACCESSORY TO GROUP E ARE NOT CONSIDERED SEPARATE OCCUPANCIES, TABLE 302.3.3, Footnote 4.)  
 REVIEW OF REQUIREMENTS OF FOOTNOTE 4 BY KS. DEPT. OF EDUCATION AND KANSAS FIRE MARSHAL'S OFFICE HAS DETERMINED THE FOLLOWING INTERPRETATION:  
 ASSEMBLY USES (HALL, CAFETERIA, MULTI-PURPOSE ROOMS, ETC) WITHIN A GROUP E OCCUPANCY WILL BE PERMITTED TO BE CLASSIFIED AS AN ACCESSORY USE TO THE MAIN GROUP E OCCUPANCY AND SEPARATIONS AND THE ALLOWABLE HEIGHT AND BUILDING AREA FOR SUCH GROUP E OCCUPANCY SHALL BE USED. HOWEVER, ALL REMAINING GROUP A (ASSEMBLY) OCCUPANCY USE REQUIREMENTS OF THE IBC SHALL BE APPLICABLE, I.E., AUTOMATIC FIRE PROTECTION SYSTEM REQUIREMENTS, EJECTION PROVISIONS, ETC.

**INCIDENTAL USE AREAS**  
 STORAGE ROOMS OVER 100 SF: 1 HR  
 LABORATORIES AND VOCATIONAL SHOPS IN GROUP B: 0 HR (AUTO-FINE SPRINKLER PROVIDED)  
 BOILER ROOMS, FURNACE ROOMS: 0 HR (AUTO-FINE SPRINKLER PROVIDED)

**ALLOWABLE HEIGHT (TABLE 503)**  
 GROUP E, TYPE III B: 3 STORIES (INCREASED 1 STORY PER PARADA.3)  
 75 FT (INCREASED 30 FT PER PARADA.4)  
 ACTUAL HEIGHT: BLDG 1: 3 STORIES: 75 FT.  
 BLDG 2: 3 STORIES: 75 FT.

**ALLOWABLE AREA - BLDG 1 (NORTH)**  
 BASIC AREA, TYPE III B CONSTRUCTION: 14,000 SF/FLOOR  
 STORIES ALLOWED: 3  
 INCREASE FOR FRONTAGE AND AUTOMATIC SPRINKLER SYSTEM: 50,000 (SEE CALC BELOW)  
 TOTAL ALLOWABLE AREA, ALL FLOORS: 157,750 SF

**ALLOWABLE AREA - BLDG 2 (SOUTH)**  
 BASIC AREA, TYPE III B CONSTRUCTION: 14,000 SF/FLOOR  
 STORIES ALLOWED: 3  
 INCREASE FOR FRONTAGE AND AUTOMATIC SPRINKLER SYSTEM: 50,000 (SEE CALC BELOW)  
 TOTAL ALLOWABLE AREA, ALL FLOORS: 157,750 SF

**ACTUAL AREA PROVIDED**

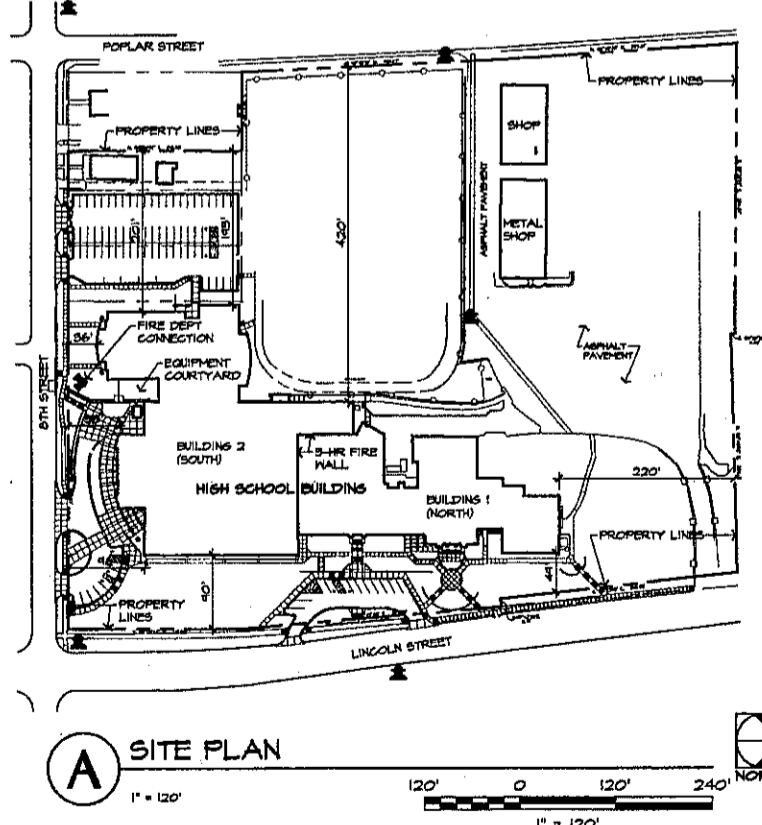
STORY	BLDG 1	BLDG 2
FIRST	32,615	43,675
SECOND	23,704	39,652
THIRD	8,292	
TOTAL	64,611 SF	83,327 SF

**LIFE SAFETY SYSTEMS SUMMARY**  
 AUTOMATIC FIRE SPRINKLER SYSTEM: PROVIDED THROUGHOUT, IN ACCORDANCE WITH NFPA 13, CONNECTED TO FIRE ALARM SYSTEM (IBC PARA. 907.2.3).  
 STAIRWELL SYSTEM: NOT REQUIRED, NOT PROVIDED.  
 FIRE ALARM SYSTEM: REQUIRED, MANUAL SYSTEM PROVIDED.  
 FIRE ESCAPE SYSTEMS: REQUIRED AS PER IBC PROVIDED.  
 EMERGENCY LIGHTING: MEANS OF EGRESS, 1 FOOT CANDLE MIN.  
 AREAS OF REFUGE: NOT REQUIRED, NOT PROVIDED (IBC PARA. 1004.10.2.2, Except 3).

**OTHER FEATURES**  
 STAIRWAY ENCLOSURE: CONNECTING UP TO 3 STORIES: 1-HR CONSTRUCTION WITH 1-HR OPENING PROTECTION. ALSO, 60% OF STAIRWAYS SERVING ONE ADJACENT FLOOR NOT ENCLOSED (IBC PARA. 1004.3.1, Except 4).  
 CORRIDOR FIRE RESISTIVE CONSTRUCTION: 0-HR (TABLE 1004.3.1), WITH AUTO-SPRINKLER SYSTEMS.  
 FIRE WALL BETWEEN BLDG 1 AND 2: 3-HR CONSTRUCTION (TABLE 705.4) WITH 3-HR OPENING PROTECTION.  
 OTHER FIRE-RATED SEPARATIONS: 1-HR CONSTRUCTION WITH 1-HR OPENING PROTECTION FOR INCIDENTAL USE AREAS (TABLE 302.1.1).

**Code Footprint Symbols Legend**

Symbol	Description	Protective Elements
[Symbol]	EXIT - EXTERIOR	
[Symbol]	EXIT - INTERIOR (assembly occupancies over 50 - IBC)	
[Symbol]	NON-PROTECTED EXIT PATH	NONE
[Symbol]	1 HOUR EXIT ENCLOSURE (STAIRWELL - 3 STORIES)	NO OPENINGS OTHER THAN REQUIRED EXIT DOORS, 1 HOUR DOOR ASSEMBLIES
[Symbol]	1 HOUR SEPARATION (Occupancy separation)	1 HOUR P.F.R. WALL CONSTRUCTION 1 HOUR RATED DOOR ASSEMBLIES FIRE & SMOKE DAMPERS
[Symbol]	2 HOUR SEPARATION (Occupancy separation)	2 HOUR P.F.R. WALL CONSTRUCTION 1 1/2 HOUR RATED DOOR ASSEMBLIES FIRE & SMOKE DAMPERS
[Symbol]	3 HOUR SEPARATION (Occupancy separation)	3 HOUR P.F.R. WALL CONSTRUCTION 2 HOUR RATED DOOR ASSEMBLIES FIRE & SMOKE DAMPERS
[Symbol]	4 HOUR SEPARATION (Occupancy separation)	4 HOUR P.F.R. WALL CONSTRUCTION 2 HOUR RATED DOOR ASSEMBLIES FIRE & SMOKE DAMPERS
[Symbol]	AGGREGATED EXIT WIDTH AT REQUIRED EXIT CLEAR WIDTH	OCCUPANTS / REQUIRED WIDTH PROVIDED WIDTH
[Symbol]	STAIR/44' CLEAR EXIT WIDTH AT REQUIRED EXIT AND CORRIDOR	STAIRS/CLEAR WIDTH PROVIDED WIDTH
[Symbol]	PUBLIC FIRE HYDRANT (FROM DISTANCE FROM BUILDING)	
[Symbol]	ROOM SEPARATION - ASSEMBLY OCCUPANCY ONLY (OVER 50 MUST BE POSTED)	ROOM TYPE / OCCUPANCY TYPE MAX ALLOWABLE OCCUPANTS
[Symbol]	SHOW AGGREGATED OCCUPANT LOADS FOR COMPLEX EXIT PATHS (WHERE APPLICABLE)	
[Symbol]	FIRE DEPARTMENT CONNECTION	
[Symbol]	FIRE ALARM ANNUNCIATION PANEL	



**A SITE PLAN**  
 1" = 120'

NOTE: THE KEN EBERT DESIGN GROUP DID NOT DESIGN THE ORIGINAL BUILDINGS, WHICH ARE CURRENTLY NON-CONFORMING. THE DESIGNED IMPROVEMENTS ARE INTENDED TO BRING THE EXISTING BUILDINGS INTO COMPLIANCE WITH THE KANSAS FIRE CODE.

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Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

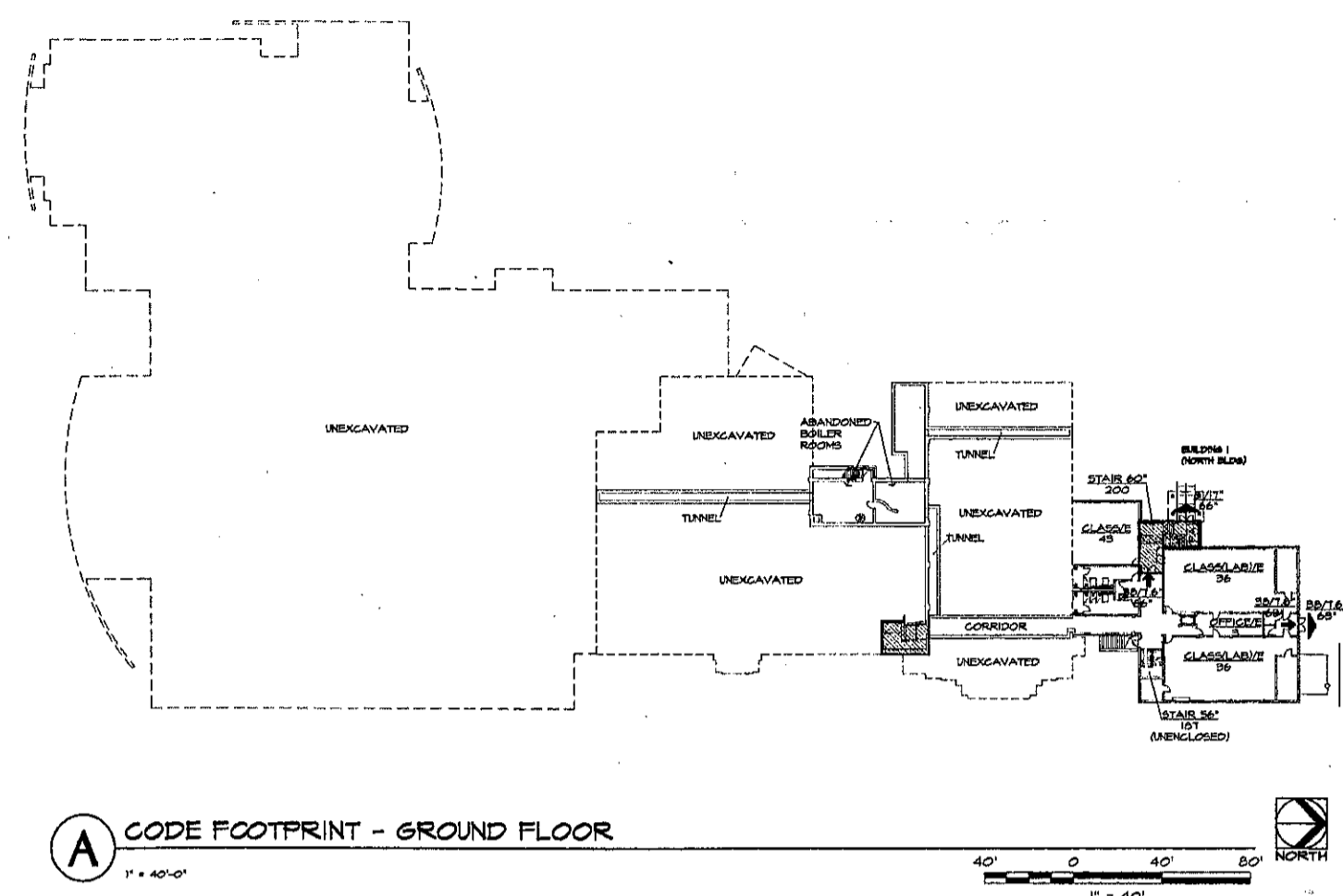
CODE SUBMITTAL  
 DRAWING  
 C1

CODE SUBMITTAL  
 DRAWING  
 C2

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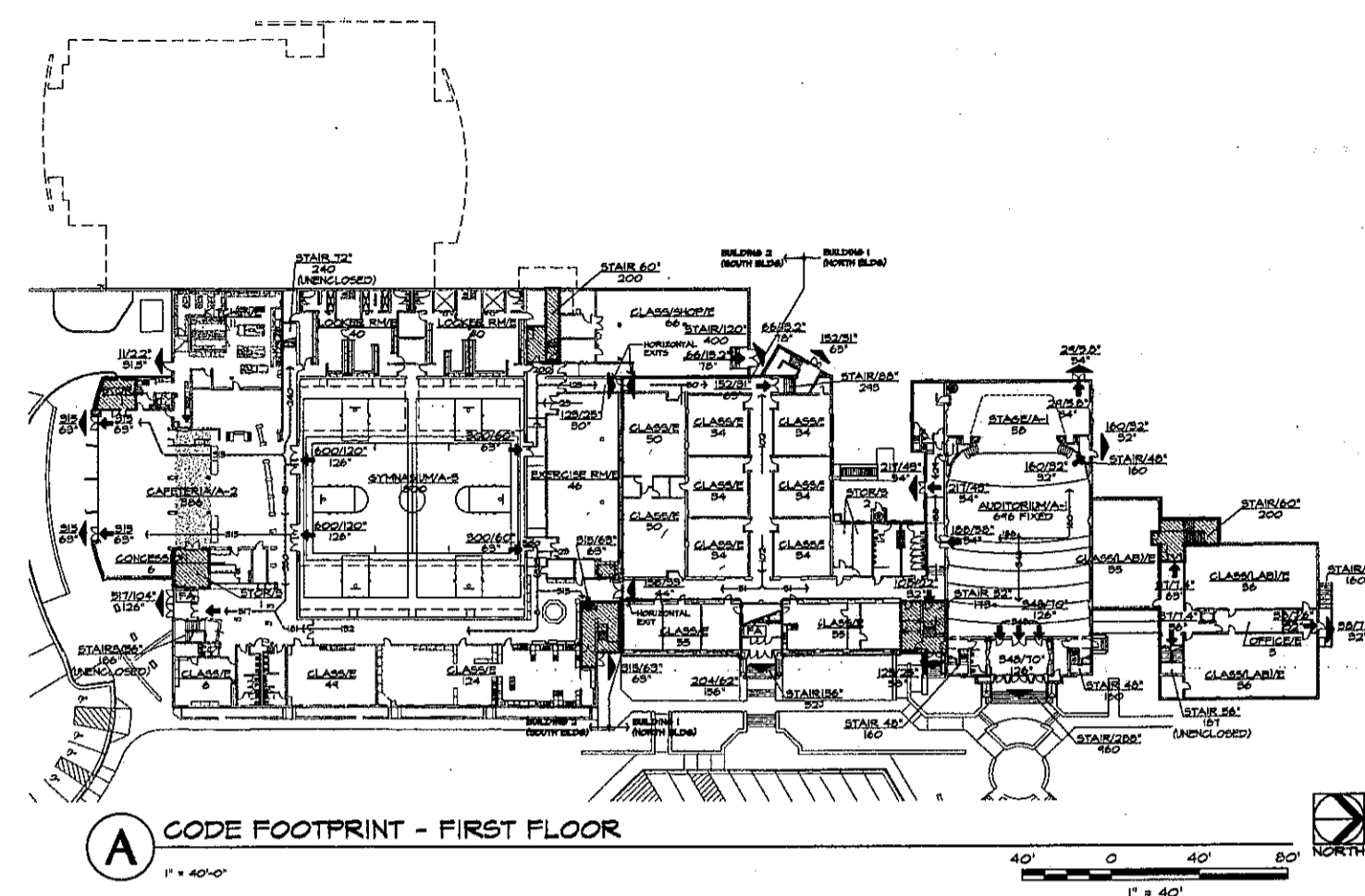
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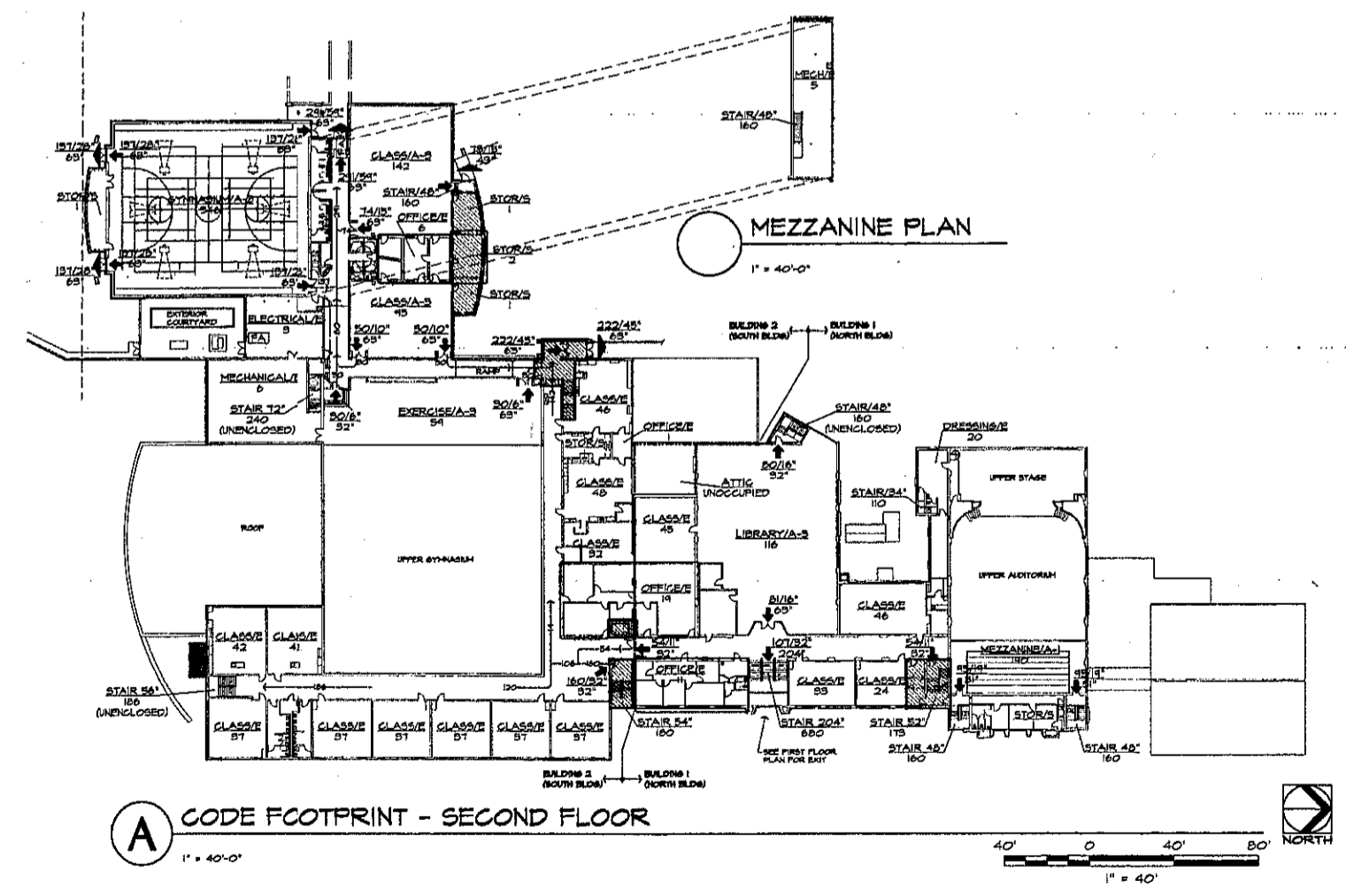
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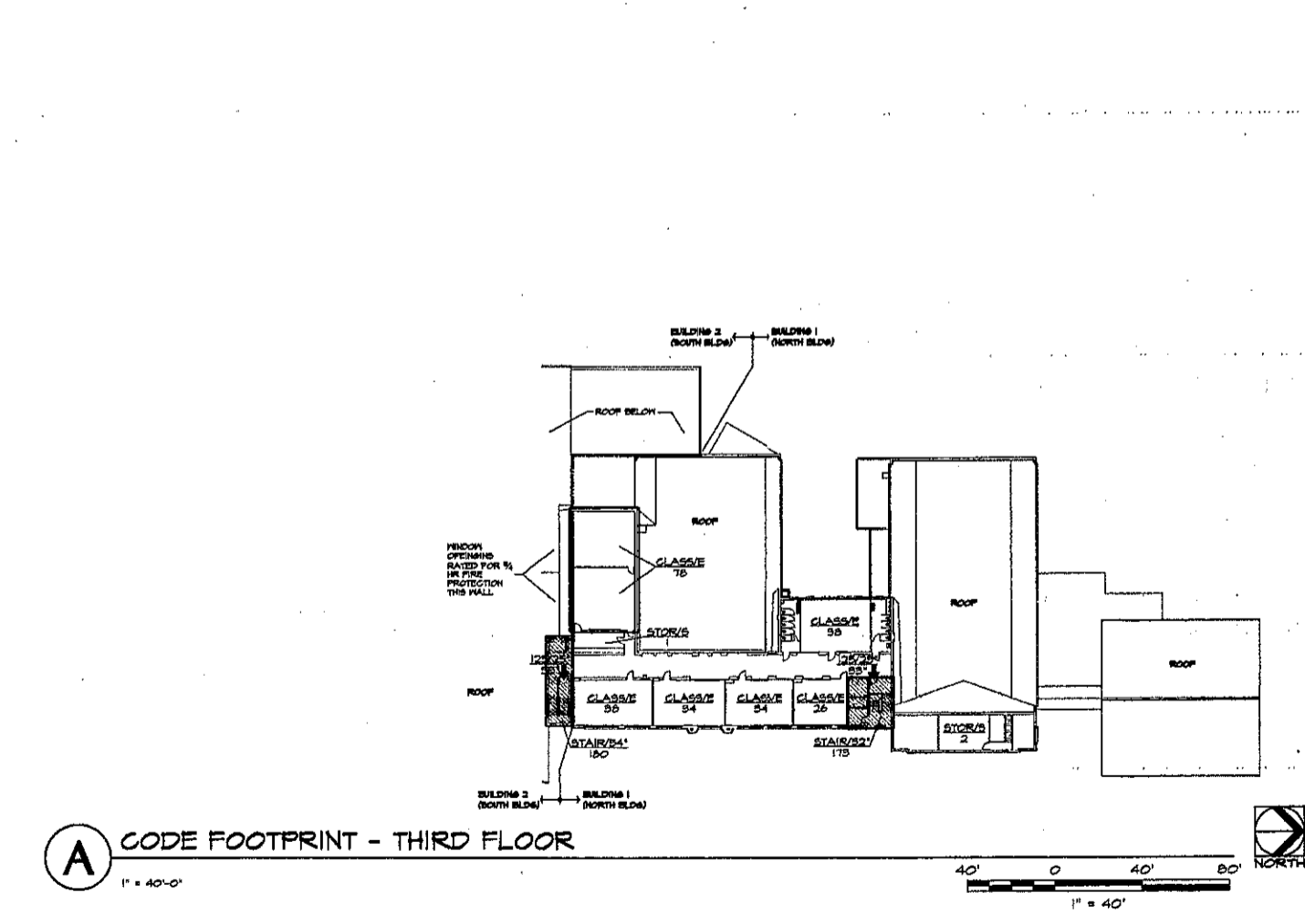
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**DRAWING C4**



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CODE SUBMITTAL  
**DRAWING C5**

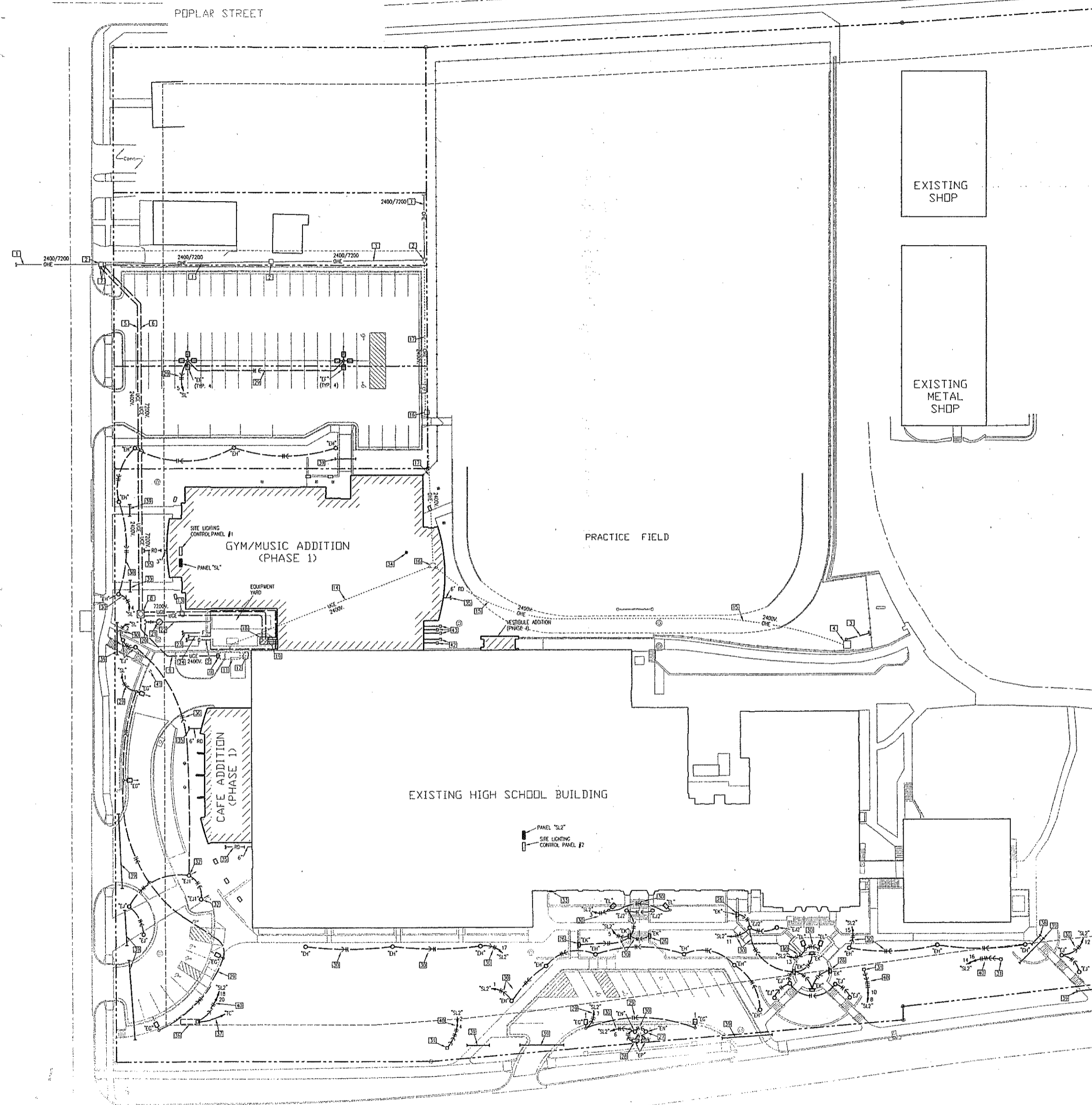


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Wamego High School Improvements Phase I  
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CODE SUBMITTAL  
**DRAWING C6**

NOTE: THE KEN EBERT DESIGN GROUP DID NOT DESIGN THE ORIGINAL BUILDINGS, WHICH ARE CURRENTLY NON-COMPLYING. THE DESIGNED IMPROVEMENTS ARE INTENDED TO BRING THE EXISTING BUILDINGS INTO COMPLIANCE WITH THE KANSAS FIRE CODE.



**M/E SITE PLAN**  
1"=30'-0"



- LEGEND:**
- 1. EXISTING 2400V/7200V OVERHEAD PRIMARY SERVICES TO REMAIN.
  - 2. EXISTING PRIMARY POWER POLE TO REMAIN.
  - 3. NEW TEMPORARY 2400V PRIMARY SERVICE TO SERVE PHASE II AREAS DURING PHASE I CONSTRUCTION PROVIDED BY CITY OF WAMEGO (CW) POWER.
  - 4. EXISTING 500 KVA PAD TRANSFORMER TO REMAIN DURING PHASE I, TO BE REMOVED BY CW POWER UNDER PHASE II.
  - 5. NEW 6" PVC CONDUIT WITH RED CONCRETE COVER AND TEMPORARY 2400V FEEDERS TO SERVE EXISTING 750 KVA PAD TRANSFORMER DURING INITIAL PART OF PHASE I CONSTRUCTION. FEEDERS BY CW POWER. CONDUIT AND COVER BY E/C. TERMINATIONS AT EXISTING 750 KVA TRANSFORMER BY CW POWER. FEEDERS TO BE REMOVED BY CW POWER WHEN NEW PHASE I TRANSFORMER AND SERVICE ENTRANCE WORK IS COMPLETE. CONDUIT TO REMAIN AS SPARE. REFER TO 2-BANK PRIMARY DUCT DETAIL.
  - 6. NEW 6" PVC CONDUIT WITH RED CONCRETE COVER AND PERMANENT 7200V FEEDERS TO SERVE NEW 2000 KVA PAD TRANSFORMER SERVING ENTIRE CONTIGUOUS SCHOOL. FEEDERS BY CW POWER. CONDUIT AND COVER BY E/C.
  - 7. POLE RISERS, STANDOFFS, AND PRIMARY TERMINATIONS BY CW POWER. STUB-UPS BY E/C. REFER TO POWER POLE DETAIL.
  - 8. NEW CONCRETE PRIMARY POWER MINIHOLE/VAULT WITH FLUSH COVER. REFER TO PRIMARY VAULT DETAIL.
  - 9. TEMPORARY 2400V FEEDERS IN 6" PVC TO BE REMOVED BY CW POWER WHEN NEW TRANSFORMER IS ENERGIZED. E/C TO INSTALL CONDUIT WITHOUT CONCRETE COVER. E/C TO REMOVE EMPTY CONDUIT AND GROUT WALK PENETRATION AFTER TEMPORARY SERVICE IS DEDICATED.
  - 10. E/C TO PROVIDE TEMPORARY 6" LONG SWEEP RIGID ELLS, PULL BOX, AND NIPPLES INTO EXISTING PAD TRANSFORMER. REMOVE BY E/C WHEN TRANSFORMER IS REMOVED.
  - 11. EXISTING 750 KVA, 3-POT PAD TRANSFORMER TO BE REMOVED BY CW POWER WHEN NEW TRANSFORMER IS ENERGIZED. G/C TO REMOVE PAD.
  - 12. SECONDARY FEEDERS TO BE REMOVED BY E/C AND FOUNDATION WALL PATCHED TO MATCH EXISTING.
  - 13. SAME AS 12 ONLY (2) 6" DUCTS WITH CONCRETE COVER. (1) SPARE.
  - 14. EXISTING UGE TO BE DISCONNECTED BY CW POWER AND REMOVED BY G/C.
  - 15. EXISTING UGE TO BE DISCONNECTED BY CW POWER AND ABANDONED IN PLACE AFTER NEW TEMPORARY FEEDERS ARE INSTALLED. G/C TO REMOVE SEGMENT UNDER STRUCTURE.
  - 16. EXISTING 2400V POWER POLE TO BE REMOVED BY CW POWER AFTER NEW TEMPORARY SERVICE IS ESTABLISHED.
  - 17. EXISTING 2400V OHE TO BE REMOVED BY CW POWER AFTER NEW TEMPORARY SERVICE IS ESTABLISHED.
  - 18. NEW 2000 KVA, 277/480V, PAD TRANSFORMER FURNISHED, INSTALLED, AND TERMINATED BY CW POWER. G/C TO PROVIDE CONCRETE PAD. REFER TO PAD DETAIL.
  - 19. SECONDARY CONDUITS, FEEDERS, AND TERMINATIONS BY E/C. REFER TO UNDERGROUND SECONDARY SERVICE DETAIL.
  - 20. PEDESTAL TYPE F.D.C. LOCATE MINIMUM OF 45' FROM EDGE OF CURB. REFER TO DETAIL.
  - 21. MAINTENANCE DRAIN IN PIT.
  - 22. 4" DUCTILE IRON FDC LINE. INSTALL BELOW FROST LINE AND SLOPE 1/8" PER FT. TOWARD FDC.
  - 23. 6" DUCTILE IRON FIRE SPRINKLER LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
  - 24. 4" DUCTILE IRON DOMESTIC WATER SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
  - 25. GAS EXTENSION BY K.G.S.
  - 26. VERIFY WITH LANDSCAPE ARCHITECT EXACT LOCATIONS AND ELEVATIONS OF RECESSED STEP LIGHTS (TYP.).
  - 27. LOCATE RECESSED FLAG LIGHTS CENTERED BETWEEN POLES.
  - 28. LOCATE SIGN LIGHTER FIXTURES 2" FROM FACE OF SIGNAGE.
  - 29. (2) #8 & (1) #10 GRD. IN 1" PVC.
  - 30. (2) #10 & (1) #10 GRD. IN 3/4" PVC.
  - 31. PROVIDE IN-GROUND JUNCTION BOX WITH 1" PVC CONDUITS AND (2) CIRCUITS AS ROUGH-IN FOR PHASE II AND/OR FUTURE LIGHTING.
  - 32. AIM DIRECTIONAL FACADE BOLLARD TOWARD STRUCTURE.
  - 33. PANEL "SL2" CIRCUITS SHALL ENTER BUILDING BELOW GRADE AT THIS POINT. REFER TO LIGHTING PLANS.
  - 34. REMOVE ABANDONED UTILITY POLE.
  - 35. BELOW GRADE ROOF DRAIN STUB-OUT FOR CONNECTION TO STORM SEWER. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
  - 36. EXISTING LIGHTED MONUMENT SIGN TO BE RELOCATED TO THIS APPROXIMATE LOCATION. REFER TO CIVIL DRAWINGS. VERIFY SIGN VOLTAGE PRIOR TO WORK.
  - 37. PROVIDE 1" PVC WITH PULL STRING BACK TO TELECOM ROOM 119 FOR FUTURE READERBOARD CABLING (BY OTHERS).
  - 38. EXTEND 3/4" PVC ROUGH-IN CONDUIT ACROSS WALKS FOR PHASE II POLE LIGHTS.
  - 39. PROVIDE (4) 1" PVC SLEEVES ACROSS DRIVES/WALKS FOR FUTURE USE.
  - 40. (4) #10 & (1) #12 GRD. IN 1" PVC.
  - 41. EXISTING LIGHTING POLE TO BE REMOVED.
  - 42. (2) 4" PVC CONDUIT STUBOUTS FROM MAIN SWITCHBOARD FOR FUTURE USE.
  - 43. (3) 4" PVC CONDUIT STUBOUTS FROM MAIN SWITCHBOARD FOR FUTURE USE.

- NOTES:**
1. VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS, ROUTING, VOLTAGES, ETC. FOR COORDINATION, INSTALLATION, AND MODIFICATIONS PRIOR TO WORK/TRENCHING.
  2. REFER TO CIVIL DOCUMENTS FOR ADDITIONAL SITE UTILITY EXTENSIONS, DEMOLITION, SERVICE REPLACEMENTS DUE TO SITE WORK, INFORMATION, AND COORDINATION. EXISTING SITE SERVICES IN NEW LANDSCAPE DRIVE, RETAINING WALL AND OTHER SITE AREAS HAVE NOT BEEN SHOWN.
  3. ALL FEES AND COSTS IMPOSED BY THE RESPECTIVE UTILITIES AND CITY OF WAMEGO SHALL BE PAID DIRECTLY BY THE OWNER.
  4. COORDINATE ALL WORK AS REQUIRED BY EACH RESPECTIVE UTILITY.
  5. SITE DEMOLITION OF EXISTING SERVICES SERVING EXISTING STRUCTURE(S) TO BE REMOVED IS NOT SHOWN AND SHALL BE BY OTHERS.
  6. EXISTING BUILDING SERVICE SERVICES SHALL REMAIN OPERATIONAL AT ALL TIMES, UNLESS NOTED OTHERWISE. COORDINATE PRIMARY OUTAGES WITH UTILITY AND OWNER PRIOR TO WORK. ASSUME PREMIUM TIME REQUIRED. SIMILAR FOR OTHER SERVICES.
  7. COORDINATE WORK AND UTILITY LOCATIONS WITH INSTALLATION OF HIGH RETAINING WALL IN SERVICE DRIVE.
  8. REFER TO TELECOM PLANS FOR ALL TELECOM SITE DEMOLITION AND NEW WORK.
  9. ALL PERMANENT SERVICES SHALL BE IN PLACE AND OPERATIONAL PRIOR TO DEMOLITION OF EXISTING AND/OR TEMPORARY SERVICES.
  10. UTILITY AND IMPORTANT CONTACTS ARE AS FOLLOWS:  
 USD 320 ADMINISTRATION -  
 DOUG CORWELL (785) 456-7643  
 USD 320 FACILITIES - (785) 456-4434 (CELL)  
 JERRY SACKRIDER (785) 456-9711 (SHOP)  
 CITY OF WAMEGO ADMINISTRATION -  
 MERL PAGE (785) 456-9119  
 CITY OF WAMEGO UTILITIES -  
 DELBERT COLSON (785) 456-4573 (CELL)  
 KANSAS GAS SERVICE - (MANHATTAN)  
 BOB SAWYER (785) 587-2324  
 CITY OF WAMEGO TELECOM -  
 KEN BLEW (785) 456-1024
  11. CONDUIT COVER SHALL BE MINIMUM OF 24" IN DRIVE AREAS, 18" ALL OTHER.
  12. ALL PRIMARY CABLING AND TERMINATIONS AT POLES AND TRANSFORMERS BY CITY OF WAMEGO POWER.

PROJECT NO 4928.03  
DATE OCT 2009  
DRAWN BY CAD  
REVISION

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**Wamego High School Improvements Phase I**  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
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**SHEET ME1.1**  
M/E SITE PLAN

**L S & A** Latimer, Sommers & Associates, P.A., Engineers  
3629 CW Summerfield Drive, Suite A  
Topeka, KS 66614-3972  
Telephone: (785) 233-3232 • FAX: (785) 233-0617  
Email: lsaj@lsajpa.com

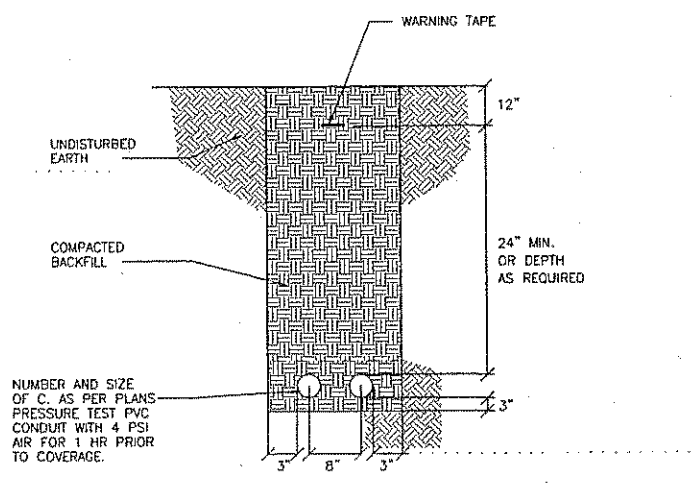
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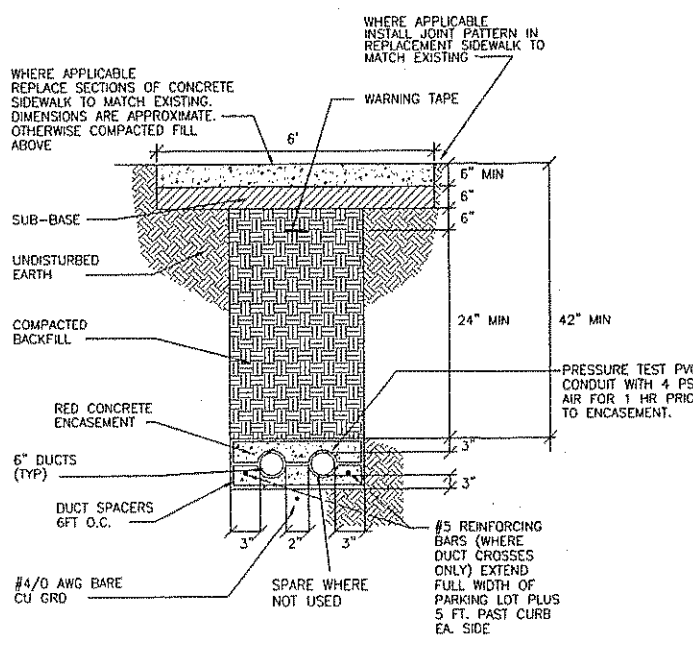
MECHANICAL SYMBOLS LEGEND	
	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)
	WASTE LINE ABOVE EARTH (W)
	WASTE LINE IN EARTH (W)
	CLEAN OUT
	FLUSH FLOOR CLEAN OUT
	FLUSH GRADE CLEAN OUT
	FLOOR DRAIN AND TYPE
	ROOF DRAIN
	ROOF DRAIN AND TYPE
	VENT LINE (V)
	DOMESTIC COLD WATER SUPPLY (DCW)
	DOMESTIC HOT WATER SUPPLY (DHW)
	DOMESTIC HOT WATER RETURN (DHRM)
	HOSE BIBB AND MOUNTING HEIGHT
	WALL HYDRANT
	FIRE LINE/STANDPIPE
	DRAIN LINE
	NATURAL GAS LINE
	RISE & DROP IN PIPE WITH CUT-OFF VALVE
	REDUCER
	CHECK VALVE
	STOP VALVE
	BALANCING VALVE
	2-WAY CONTROL VALVE OR SOLENOID VALVE
	3-WAY CONTROL VALVE OR SOLENOID VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	UNION
	FLEXIBLE PIPE CONNECTION
	MANUAL DAMPER
	BACKDRAFT DAMPER
	AUTOMATIC DAMPER
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	SMOKE DAMPER
	GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
	VOLUME EXTRACTOR AND TURNING VANES
	RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
	SUPPLY AIR DUCT SECTION UP & DOWN
	FLEXIBLE DUCT CONNECTION
	ROUND OR RECTANGULAR DUCT
	FLEXIBLE DUCT
	THERMOSTAT, DDC
	THERMOSTAT, ELECTRIC (LINE VOLTAGE)
	HUMIDISTAT, DDC
	HUMIDISTAT, ELECTRIC
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	ACCESS DOOR
	ABOVE FINISHED FLOOR
	EXHAUST AIR
	OUTSIDE AIR
	RETURN AIR
	SUPPLY AIR
	VENT BELOW SLAB
	VENT THRU ROOF
	ACID VENT
	ACID WASTE
	LAWN IRRIGATION
	FIRE DEPARTMENT SIAMESE CONNECTION
	FACILITIES MANAGEMENT SYSTEM
	PROVIDE WIRE GUARD OVER THERMOSTAT/SENSOR/DEVICE, ETC.

ELECTRICAL SYMBOLS LEGEND	
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR SLAB
	EXPOSED CONDUIT
	HOME RUN - ARROW INDICATES CAT, LINES INDICATE WIRES
	GROUND WIRE
	GROUNDING ROD
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)
	FOURPLEX RECEPTACLE
	FLOOR DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)
	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)
	PLUGLOAD
	TWO-LOCK RECEPTACLE
	TELEPHONE OUTLET *
	FLOOR TELEPHONE OUTLET **
	DATA OUTLET #
	FLOOR DATA OUTLET **
	TELEVISION OUTLET #
	MICROPHONE OUTLET
	PUSHBUTTON
	CEILING SPEAKER
	HORN TYPE SPEAKER
	WEATHERHEAD
	MOTOR
	FUSIBLE SWITCH (BUSSMAN SSI)
	DISCONNECT SWITCH (D.S.)
	COMBINATION MOTOR STARTER (CMS)
	MAGNETIC MOTOR STARTER (MMS)
	MANUAL MOTOR CONTROLLER (MMC)
	RELAY
	JUNCTION BOX
	THERMOSTAT ELECTRIC (LINE VOLTAGE)
	NIGHT THERMOSTAT ELECTRIC
	FLOOD BOX AND TYPE
	WEATHERPROOF
	VIDEO OUTLET #
	SWITCH - SINGLE POLE
	3-WAY, 4-WAY
	OPERATES CIRCUIT 'A', 'B', ETC.
	CEILING MOUNTED MOTION SENSING SWITCH
	LIGHT FIXTURE AND TYPE
	FLUORESCENT LIGHT FIXTURE
	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
	FIXTURE ON LIFE SAFETY BRANCH OF EMERGENCY SYSTEM
	INCANDESCENT OR H.I.D. LIGHT FIXTURE (WALL MOUNTED)
	EXIT LIGHT (CEILING OR WALL MOUNTED)
	FLUSH PANELBOARD (LIGHT & RECEPTABLES)
	SURFACE PANELBOARD (LIGHT & RECEPTABLES)
	DISTRIBUTION PANEL OR SWITCHBOARD
	DEVICE LOCATED ABOVE COUNTER
	ABOVE FINISHED FLOOR
	MOUNTED IN CEILING
	DOWNER
	INDICATES EXISTING DEVICE
	ELECTRIC DRINKING FOUNTAIN
	WITH GUARD
	GROUND FAULT INTERRUPTER
	ISOLATED GROUND
	KEY OPERATED
	MOTION SENSING
	NARROW SWITCH PLATE
	NIGHTLIGHT FIXTURE, WIRED HOT
	WITH PILOT LAMP
	PULL CHAIN
	SURGE SUPPRESSOR
	START/STOP
	TAMPER PROOF
	DOUBLE NEUTRAL
	TRACK LIGHTING
	PROVIDE WIRE GUARD OVER THERMOSTAT/SENSOR/DEVICE, ETC.

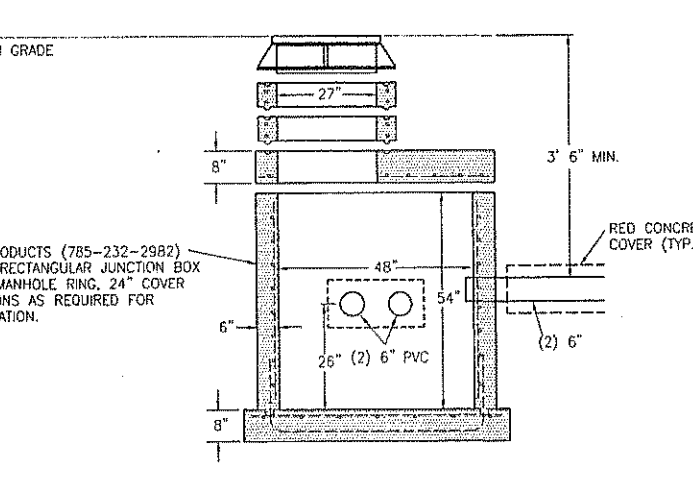
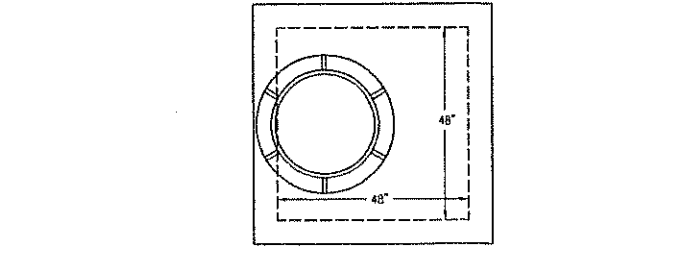
NOTES: ALL SYMBOLS SHOWN ABOVE REFER TO MECHANICAL SYMBOLS LEGEND FOR ELECTRICAL SYMBOLS THAT MAY BE SHOWN ON MECHANICAL PLANS.  
 \*\* 4x4 BACKBOX WITH SINGLE-GANG PLASTER RING COVERPLATE AND 3/4" CONDUIT AS SHOWN ON TELECOM PLANS.



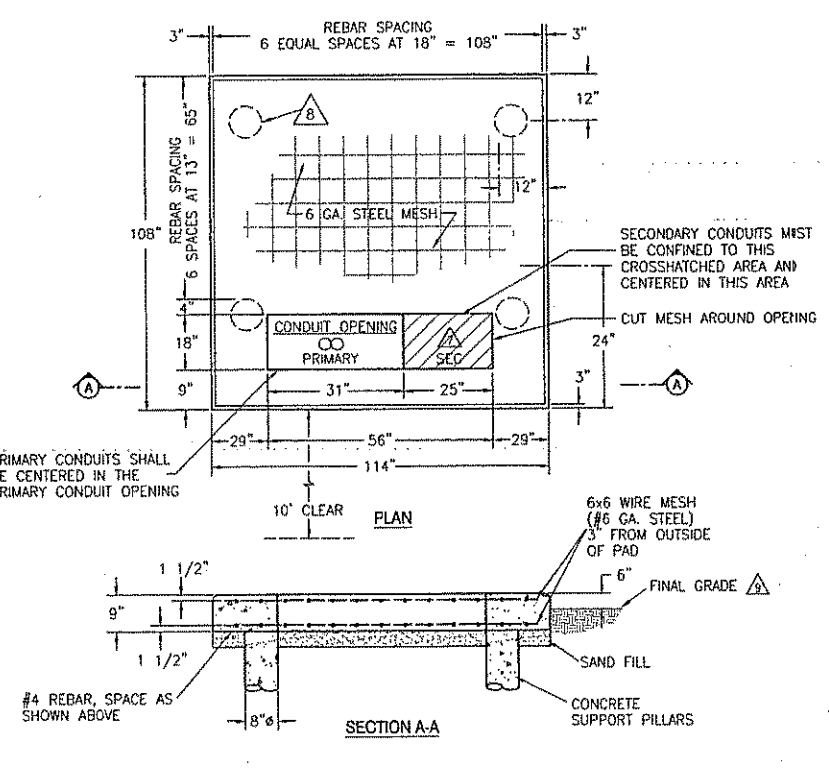
**UNDERGROUND SECONDARY SERVICE**  
 NO SCALE



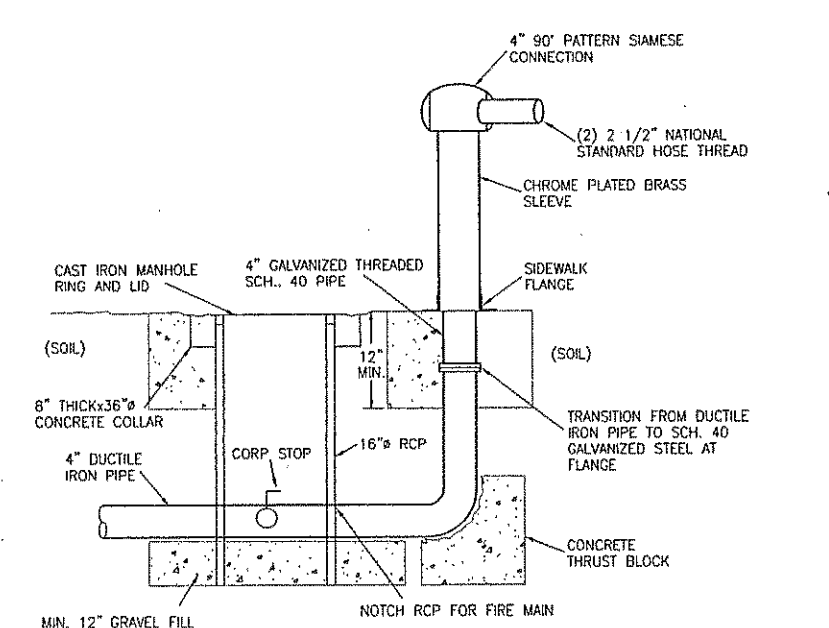
**2x1 PRIMARY DUCT BANK**  
 NO SCALE



**PRIMARY ELECTRICAL VAULT DETAIL**  
 1/2"=1'-0"



**TRANSFORMER PAD DETAIL**  
 NO SCALE 2000 KVA



**FIRE DEPARTMENT CONNECTION DETAIL**  
 1"=1'-0"

GAS DEMAND SUMMARY	
(3) BOILERS (2000 CFH EACH)	6000 CFH
EMERGENCY GENERATOR	760 CFH
<b>TOTAL GAS DEMAND = 6760 CFH AT MIN. 2 PSI DELIVERY PRESSURE.</b>	

NOTES:  
 1. 2 PSI MINIMUM DELIVERY PRESSURE FOR PROPER GENERATOR OPERATION. 5 PSI MAXIMUM PRESSURE.  
 2. EXISTING GAS SERVICE AT NORTH END OF HIGH SCHOOL TO REMAIN AND LOADS REMOVED/MODIFIED UNDER PHASE 2 CONSTRUCTION.

SERVICE LOAD CALCULATION		
ELECTRICAL LOAD (DEMAND) ESTIMATE (ENTIRE SCHOOL INCLUDING BOTH PHASE 1 AND PHASE 2 CONSTRUCTION)		
GROSS AREA = APPROX. 150,000 SQ. FT.		
SYSTEM = 277V/480, 3Ø, 4W.		
SERVICE ENTRANCE = 2500 AMPS.		
LIGHTING	375	KVA
GENERAL POWER (OUTLETS)	38	KVA
CHILLER (400 TON)	557	KVA
AIR HANDLERS	130	KVA
RELIEF FANS	45	KVA
HVAC (EXHAUST, MISC.)	70	KVA
ELEVATORS, (1) AT 20 HP, (2) AT 30 HP	80	KVA
KITCHEN BOOSTER HEATER	54	KVA
PUMPS (125 HP TOTAL)	120	KVA
SHOP EQUIPMENT	10	KVA
MISCELLANEOUS EQUIPMENT	25	KVA
SITE LIGHTING	12	KVA
<b>TOTAL CONNECTED LOAD</b>	<b>1516</b>	<b>KVA</b>
ESTIMATED PEAK DEMAND	1389	KVA
ESTIMATED PEAK CURRENT	1671	AMPS
ESTIMATED POWER FACTOR	.9	
RECOMMENDED TRANSFORMER	2000	KVA

NOTE:  
 1 - EXISTING INSTALLED TRANSFORMER CAPACITY: 1250 KVA

- NOTES:
- THE PAD LOCATION SHALL BE APPROVED BY ENGINEER AND CITY OF WAMEGO POWER (CWP). DIMENSIONS SHOWN ARE APPROXIMATE ONLY. CONTACT CWP FOR EXACT PAD REQUIREMENTS FOR ACTUAL TRANSFORMER TO BE FURNISHED.
  - CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
  - THE CONCRETE SHALL BE A MINIMUM OF 3,000 LB. MIX.
  - THE TOP OF THE TRANSFORMER PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE ROUNDED OR BEVELED.
  - THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
  - THE TOPS OF THE CONDUITS SHALL BE FLUSH WITH THE TOP OF THE CONCRETE PAD.
  - NUMBER OF CONDUITS NECESSARY IS DEPENDENT ON THE MAXIMUM NUMBER OF SERVICE CONDUCTORS ALLOWED IN THE LOW-VOLTAGE COMPARTMENT OF THE TRANSFORMER.
  - PILLARS ARE FORMED BY AUGERING AN 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH. A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THAT THE PAD CAN BE LEVELED AT A LATER TIME IF NECESSARY.
  - THE 6" ABOVE GRADE CAN BE REDUCED TO 4" ABOVE FINISHED PAVEMENT.

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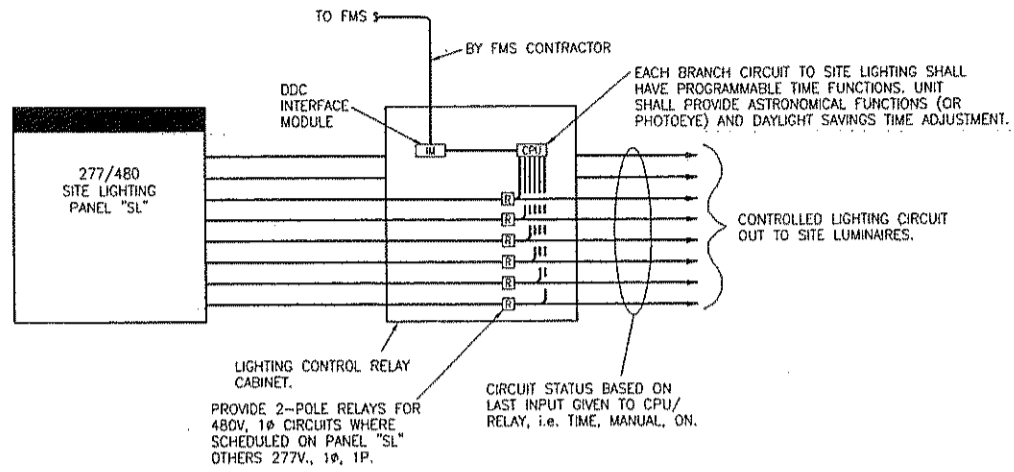


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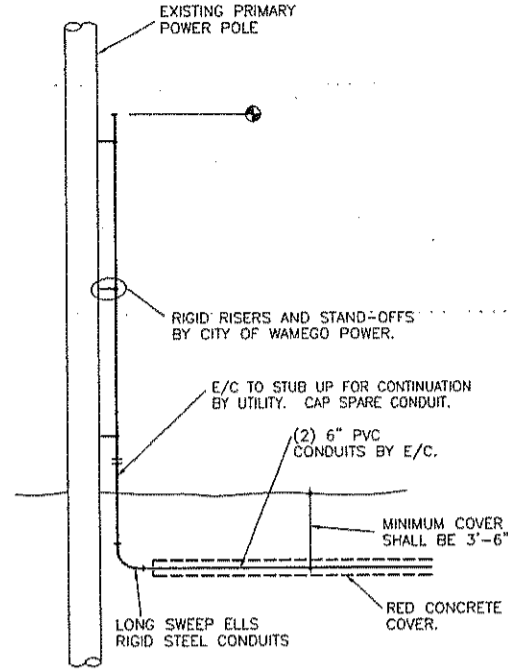
**SHEET ME1.2**  
 SITE PLAN DETAILS

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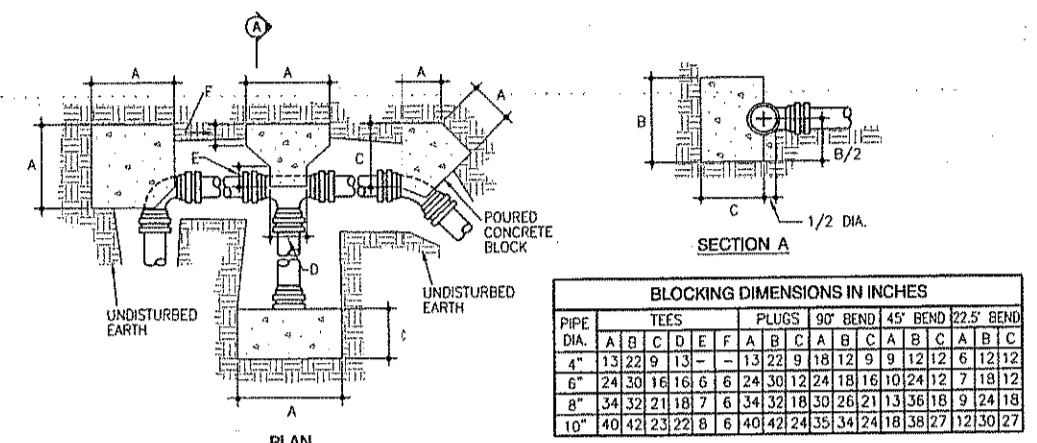
**GENERAL NOTES:**  
 1. LIGHTING CONTROL RELAY CABINET SHALL BE BY FMS VENDOR FOR FMS CONTROL.  
 2. RELAY CABINET SHALL BE FURNISHED AND INSTALLED BY FMS VENDOR.  
 3. FMS CONTRACTOR TO MAKE ALL LINE VOLTAGE CONNECTIONS.



**SITE LIGHTING CONTROL DETAIL**  
 NO SCALE

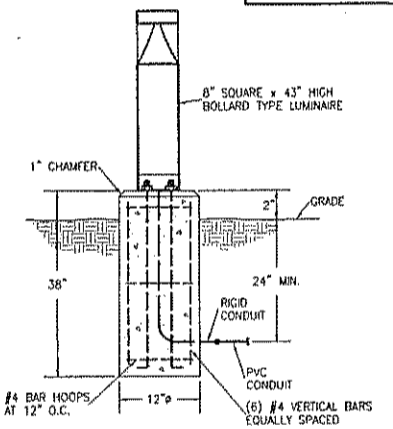


**POWER POLE DETAIL**  
 NO SCALE



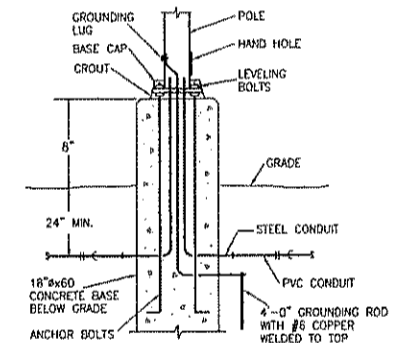
**CONCRETE BLOCKING DETAIL**  
 NO SCALE (FIRE DEPARTMENT CONNECTION LINE)

**NOTE:**  
 VERIFY BASE INSTALLATION REQUIREMENTS WITH MANUFACTURER.



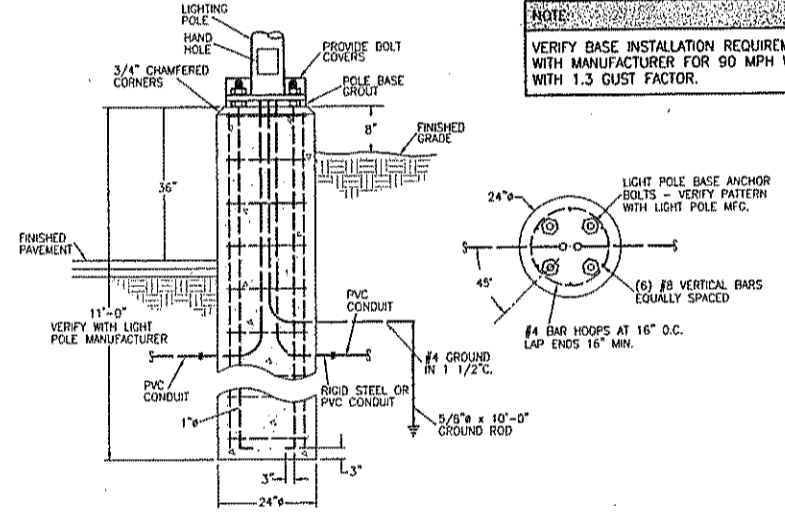
**BOLLARD TYPE LUMINAIRE DETAIL**  
 NO SCALE (TYPE "EJ", "EJ1") ("EJ2" SIMILAR)

**NOTE:**  
 VERIFY BASE INSTALLATION REQUIREMENTS WITH MANUFACTURER FOR 90 MPH WIND WITH 1.3 GUST FACTOR.



**LIGHT POLE BASE DETAIL**  
 NO SCALE (16\"/>

**NOTE:**  
 VERIFY BASE INSTALLATION REQUIREMENTS WITH MANUFACTURER FOR 90 MPH WIND WITH 1.3 GUST FACTOR.



**LIGHT POLE BASE DETAIL**  
 NO SCALE (20\"/>

SITE LIGHT FIXTURE SCHEDULE											
MARK	MANUFACTURER	MODEL NUMBER	MOUNTING			FINISH	LAMPS				REMARKS
			RECESS.	SURF.	WALL		INCAND.	FLUOR.	HD.	CODE	
"E1"	KIM	4C/ET4/400MH80/BL-P			POLE	BLACK		X	400 MH	1	TYPE IV, 480V., 1, 2
"E2"	KIM	1A/ET3/250MH80/BL-P			POLE	BLACK		X	250 MH	1	TYPE III, 480V., 2, 3
"E3"	KIM	FM/BNS1H3/150MH277/BL-P			POLE	BLACK		X	150 MH	1	TYPE II, 277V., 2, 4
"E4"	KIM	VS1/70MH277/BL-P			BALLARD	BLACK		X	70 MH	1	277V., 2
"E5"	KIM	VS2/70MH277/BL-P			BALLARD	BLACK		X	70 MH	1	277V., 2
"E6"	KIM	VS1C/70MH277/BL-P/CH-C			BALLARD	BLACK/CHARCOAL		X	70 MH	1	277V., 2, 5
"E7"	KIM	VS1C/70MH277/BL-P/CH-C			BALLARD	BLACK/CHARCOAL		X	70 MH	1	277V., 2, 6
"E8"	DEVINE	F644-70MH-277	X		X	BLACK		X	400 MH	1	277V., 2, 7
"E9"	KIM	AFL22/400MH277/BL-P/FH2/SM2		X		BLACK		X	70 MH	1	277V., 2
"E10"	KIM	LV10-SP-175MH277-TR10	X			BRONZE		X	175 MH	1	FLAG SPOT, 277V., 2
"E11"	KIM	4305/277/BL/SM18		X		BLACK		X	32W T8	1	277V., 2, 7

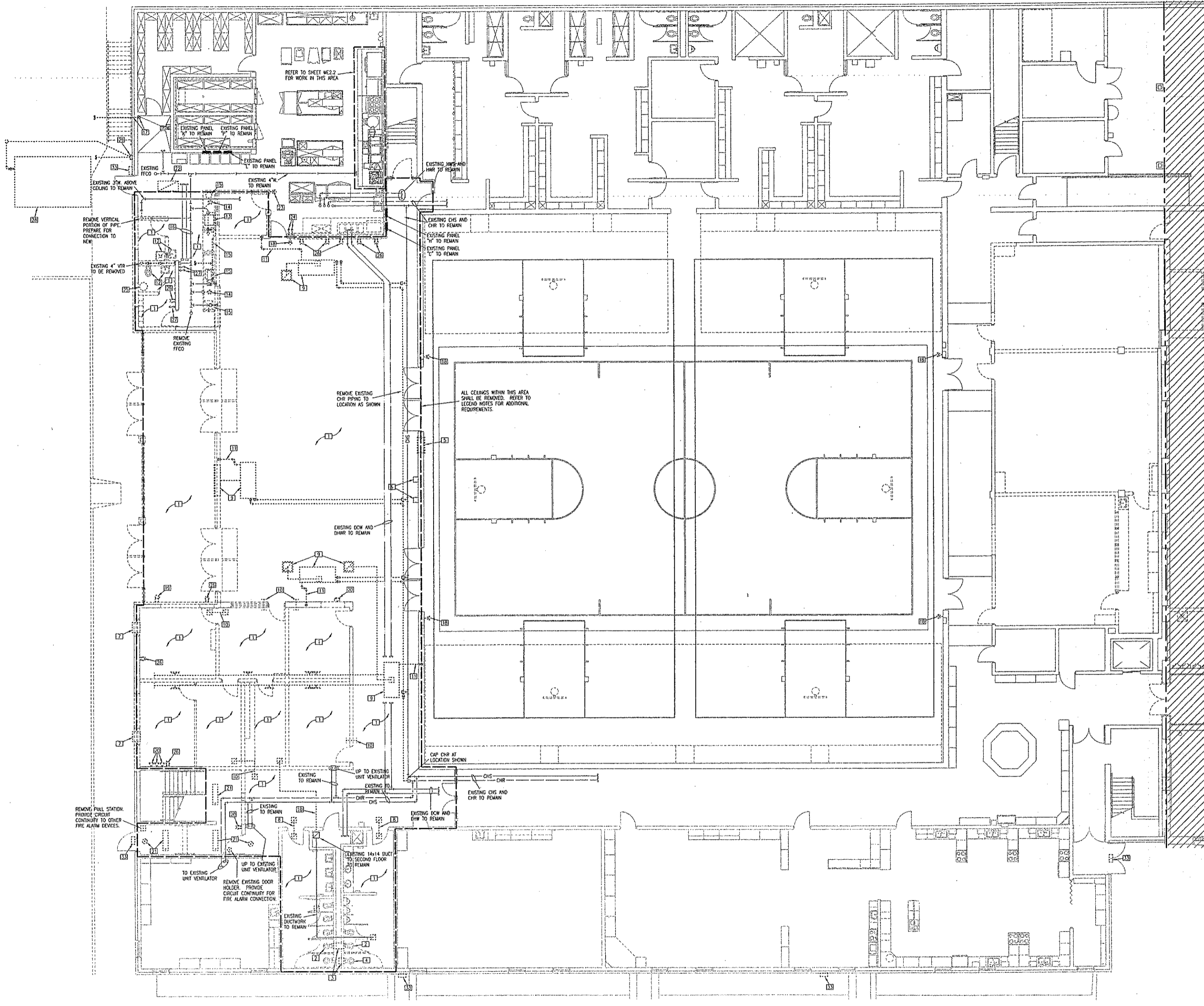
**REMARKS LEGEND:**  
 1 - 30' STRAIGHT STEEL POLE, KIM KSS30-5180-C-BL-P  
 2 - FIXTURE SHALL BE WET LOCATION LISTED.  
 3 - 20' STRAIGHT STEEL POLE, KIM KSS20-4180-A-BL-P  
 4 - 12' STRAIGHT ALUMINUM POLE, KIM PRA14-4125FM-BL-P  
 5 - BURY BASE FOR 30' AFG TO TOP OF FIXTURE.  
 6 - RECESSED WALL LIGHT. VERIFY THICKNESS OF CONCRETE WHERE INSTALLED.  
 7 - FIELD VERIFY BEST PLACEMENT OF STANCHION MOUNT.

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**NOTES:**

- WHERE WALLS ARE SHOWN TO BE REMOVED, REMOVE ALL DEVICES ON THOSE WALLS INCLUDING ALL THERMOSTATS, SWITCHES, RECEPTACLES, DATA OUTLETS, FIRE ALARM DEVICES. REMOVE ALL CONDUIT AND ASSOCIATED WIRING BACK TO PANELBOARDS. WHERE ONLY PART OF A CIRCUIT IS REMOVED, PROVIDE CIRCUIT CONTINUITY FOR RECEPTACLES, LIGHTING, PNEUMATIC TUBING, CONTROL WIRING, FIRE ALARM DEVICES ETC.

- LEGEND:**
- REMOVE CEILING, ALL LIGHT FIXTURES, CEILING FANS, ALL GRILLES, RECEPTACLES, DIFFUSERS, ALL SMOKE DETECTORS, ALL CEILING MOUNTED SPEAKERS. PROVIDE CIRCUIT CONTINUITY FOR ANY EMERGENCY LIGHTING FIXTURES REMOVED. REMOVE ALL NORMAL POWER CIRCUITS TO ALL LIGHT FIXTURES BACK TO EXISTING PANELBOARD. ALL CIRCUIT BREAKERS TO REMAIN. ALL DUCTWORK TO BE REMOVED UNLESS NOTED OTHERWISE. PROVIDE CIRCUIT CONTINUITY FOR ALL FIRE ALARM DEVICES REMOVED AND ALL SPEAKERS REMOVED. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF ALL DEMOLITION AREAS. PROVIDE CIRCUIT CONTINUITY FOR CIRCUITS WHERE ONLY PART OF CIRCUIT IS REMOVED.
  - REMOVE EXISTING FLOOR MOUNTED WATER CLOSE, REMOVE WASTE PIPE AND CAP FLUSH WITH TOP OF FLOOR. PATCH TO MATCH EXISTING FLOOR. CAP WATER INSIDE CHASE AT MAIN WATER PIPE.
  - REMOVE EXISTING WALL AS NECESSARY TO FACILITATE REMOVAL OF WATER CLOSET AND FLUSH VALVES WHERE NOTED AND INSTALLATION OF NEW FIXTURES. REFER TO ARCHITECTURAL FOR ADDITIONAL PATCHING/REPAIR REQUIREMENTS.
  - REMOVE FLUSH VALVE TO WATER CLOSET AND WATER BACK TO INSIDE CHASE. NEW FLUSH VALVE ON WIDE SIDE OF SALL TO BE PROVIDED. REFER TO NEW PLANS FOR REQUIREMENTS.
  - REMOVE EXISTING TRANSFER GRILLE MOUNTED AT APPROXIMATELY 5'-0" AFF AND ASSOCIATED FIRE SMOKE DAMPER. PROVIDE CIRCUIT CONTINUITY FOR DAMPER POWER.
  - REMOVE EXISTING WATER COOLERS. EXISTING RECEPTACLES TO REMAIN. REMOVE WASTE PIPE AND WATER PIPE AND CAP FLUSH WITH FACE OF WALL. PROVIDE COVERPLATE OVER EACH OPENING IN WALL. REMOVE ALL MOUNTING HARDWARE FLUSH WITH FACE OF WALL.
  - REMOVE EXISTING WINDOW MOUNTED A/C UNIT. REMOVE CONDUIT AND CONDUCTORS BACK TO PANELBOARD. CIRCUIT BREAKERS TO REMAIN. REFER TO ARCHITECTURAL FOR PATCHING REQUIREMENTS.
  - REMOVE EXISTING GRILLES AND TRANSFER DUCTS. REMOVE FIRE DAMPER AT WALL, OPENING TO REMAIN AT WALL. REFER TO NEW FOR NEW TRANSFER DUCT AND OPENING SIZE AT WALL.
  - REMOVE EXISTING UNIT VENTILATOR/FCU, ALL ASSOCIATED DUCTWORK, ALL ASSOCIATED CHS AND CHR PIPING, ALL THERMOSTATS AND CONTROLS AND POWER CONNECTIONS. REMOVE EXISTING OR INTAKE AT ROOF. PATCH OPENING AND ROOF TO MATCH EXISTING. REMOVE ALL CHR PIPING. REMOVE ALL CHS PIPING BACK TO MAIN AND CAP AT MAIN. REMOVE ALL CONDUIT AND CONDUCTORS FOR POWER BACK TO MAIN. CONTRACTOR TO VERIFY CONTROL WIRING CONNECTIONS. REMOVE ALL CONTROL WIRING AND DEVICES ASSOCIATED WITH UNITS TO BE REMOVED. PROVIDE CIRCUIT CONTINUITY TO OTHER UNITS NOT TO BE REMOVED. WHERE THERMOSTATS ARE TO BE REMOVED IN WALLS THAT ARE TO REMAIN, PROVIDE BLANK COVERPLATE OVER OPENING.
  - REMOVE EXISTING TRANSFER DUCT AND ASSOCIATED GRILLES AND FIRE DAMPERS. REFER TO ARCHITECTURAL FOR PATCHING REQUIREMENTS IN WALL TO REMAIN.
  - REMOVE EXISTING CONDENSATE DRAIN PIPING FROM UNIT VENTILATORS TO WALL. FOR LOCATION WHERE WALL IS TO BE REMOVED, REMOVE PIPING TO FLUSH WITH FINISH FLOOR. CAP AT FLOOR AND PATCH FLOOR TO MATCH NEW. FOR ALL OTHER LOCATIONS, REMOVE PIPE TO WALL AND CAP FLUSH WITH WALL. PROVIDE COVERPLATE AT THESE LOCATIONS. PATCH WALL TO MATCH NEW AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
  - REMOVE EXISTING PLUMBING FIXTURES. REMOVE ALL WATER PIPING BACK TO EXISTING MAIN AND CAP. REMOVE ALL WASTE PIPING TO MAIN AS SHOWN AND CAP. REMOVE ALL VENT PIPING AND VTR. PATCH ROOF TO MATCH EXISTING. PATCH ALL HOLES IN FLOOR TO MATCH NEW.
  - REMOVE EXISTING GREASE TRAP IN FLOOR, SAW CUT FLOOR TO REMOVE. REMOVE ALL ASSOCIATED WASTE PIPING AND VENT PIPING. CAP WASTE PIPING AT MAIN AS SHOWN. PATCH FLOOR TO MATCH EXISTING.
  - REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED WASTE AND VENT PIPING. CAP WASTE AT MAIN AS SHOWN.
  - REMOVE EXISTING DISHWASHER, BOOSTER HEATER, SINK AND GARBAGE DISPOSAL, AS WELL AS ALL ASSOCIATED WASTE PIPING BACK TO MAIN AS SHOWN. ALL WATER CONNECTIONS BACK TO MAIN. ALL VENT PIPING, ALL POWER CONNECTIONS INCLUDING CONDUIT AND CONDUCTORS BACK TO PANELBOARDS. ALL INTERCONNECTING PIPING AND CONDUIT, DISHWASHER, BOOSTER HEATER, SINK AND GARBAGE DISPOSALS TO BE RELOCATED TO NEW LOCATION. REFER TO PLANS.
  - EXISTING DCW, DHW AND WASTE PIPING TO REMAIN. REFER TO NEW PLANS FOR ADDITIONAL CONNECTIONS.
  - EXISTING DCW SERVICE TO BE REMOVED TO INSIDE BUILDING. PATCH WALL PENETRATIONS. REFER TO CIVIL DRAWINGS. REFER TO NEW DRAWINGS FOR CONNECTIONS TO EXISTING.
  - REMOVE EXISTING THERMOSTAT. PROVIDE BLANK COVERPLATE AT WALL. REMOVE ALL CONTROL WIRING AND PNEUMATIC TUBING TO UNITS. SALVAGE THERMOSTAT TO OWNER.
  - REMOVE EXISTING BELL AND PROVIDE CIRCUIT CONTINUITY.
  - REMOVE EXISTING RECEPTACLE, DATA OUTLET, LIGHT SWITCH AND PROVIDE CIRCUIT CONTINUITY.
  - REMOVE EXISTING LIGHT FIXTURES, JUNCTION BOX AND CIRCUIT TO REMAIN. PROVIDE CIRCUIT CONTINUITY.
  - REMOVE EXISTING 24x48 RA GRILLE. RELOCATE TO NEW POSITION INDICATED ON NEW PLANS. PATCH CEILING TO MATCH EXISTING. DUCTWORK TO BE EXTENDED TO NEW LOCATION. REFER TO NEW PLANS.
  - REMOVE EXISTING THERMOSTAT, PNEUMATIC TUBING AND CONTROL WIRING TO ABOVE CEILING. PREPARE FOR EXTENSION OF WIRING/PNEUMATIC TUBING TO RELOCATED POSITION. REFER TO NEW PLANS.
  - EXISTING LIGHT SWITCH AND FAN SWITCH TO REMAIN.
  - EXISTING EXHAUST FAN, ASSOCIATED CONDUIT AND CONDUCTORS. DUCTWORK AND ROOF PENETRATIONS TO BE REMOVED. PATCH ROOF TO MATCH EXISTING. REMOVE CONDUIT/CONDUCTORS BACK TO PANEL. CIRCUIT BREAKER TO REMAIN.
  - EXISTING RECEPTACLE TO REMAIN. PROVIDE CIRCUIT CONTINUITY FOR EXISTING CIRCUIT.
  - REMOVE EXISTING LIGHT SWITCH/FAN SWITCH AND WIRING. PROVIDE BLANK COVERPLATE.
  - EXISTING WALK-IN EXTERIOR FREEZER TO BE REMOVED AND RELOCATED. REMOVE EXISTING EXPOSED CONDUIT AND PULL BOX ON RETAINING WALL. REMOVE EXPOSED CONDUIT ON BUILDING WALL. LB ON BUILDING TO BE REMOVED. REFER TO NEW PLANS FOR LOCATION OF FREEZER. REMOVE CONDUIT AND CONDUCTORS FROM FREEZER TO PANELBOARD.
  - REMOVE EXISTING LB ON WALL FOR SITE LIGHTING. REMOVE CIRCUIT BACK TO PANELBOARD.
  - REMOVE EXISTING AHU, ASSOCIATED SUPPORTS, TEMPERATURE CONTROL WIRING BACK TO MAIN PANEL. ASSOCIATED POWER CONNECTIONS INCLUDING ALL CONDUIT, WIRING AND SUPPORTS BACK TO PANELBOARD. ALL CHS AND CHR PIPING. IF POSSIBLE, REUSE EXISTING PIPE SUPPORTS FOR NEW PIPING AND/OR DUCTWORK. REFER TO NEW PLANS.
  - REMOVE ALL EXISTING CHS AND CHR PIPING AND SUPPORTS BACK TO MECHANICAL ROOM. IF POSSIBLE, REUSE EXISTING PIPE SUPPORTS FOR NEW PIPING AND/OR DUCTWORK. REFER TO NEW PLANS.
  - REMOVE EXISTING 3/4" GAS ON ROOF. PENETRATIONS THROUGH WALLS TO REMAIN FOR CONNECTION TO NEW. REFER TO NEW PLANS.
  - REMOVE LIGHT FIXTURE. PROVIDE JUNCTION BOX ON INTERIOR OF WALL/ROOF. ABANDON CIRCUIT IN JUNCTION BOX. REPAIR PENETRATION THROUGH WALL/ROOFS AS REQUIRED TO MATCH EXISTING.



**FIRST FLOOR DEMOLITION PLAN - SOUTHEAST**  
1/8"=1'-0"  
MECHANICAL/ELECTRICAL



PROJECT NO 4428.03  
DATE OCT 2003  
DRAWN BY CAD  
REVISION

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**Wamego High School Improvements Phase I**  
Wamego Public Schools - Unified School District 320  
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**SHEET ME2.1**  
FIRST FLOOR DEMOLITION PLAN - SOUTHEAST MECHANICAL/ELECTRICAL

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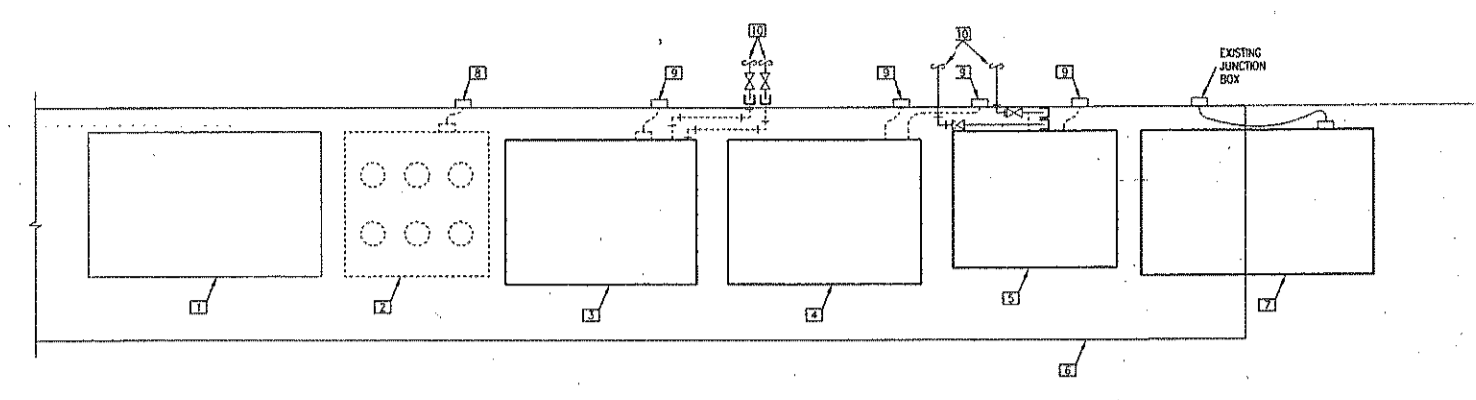
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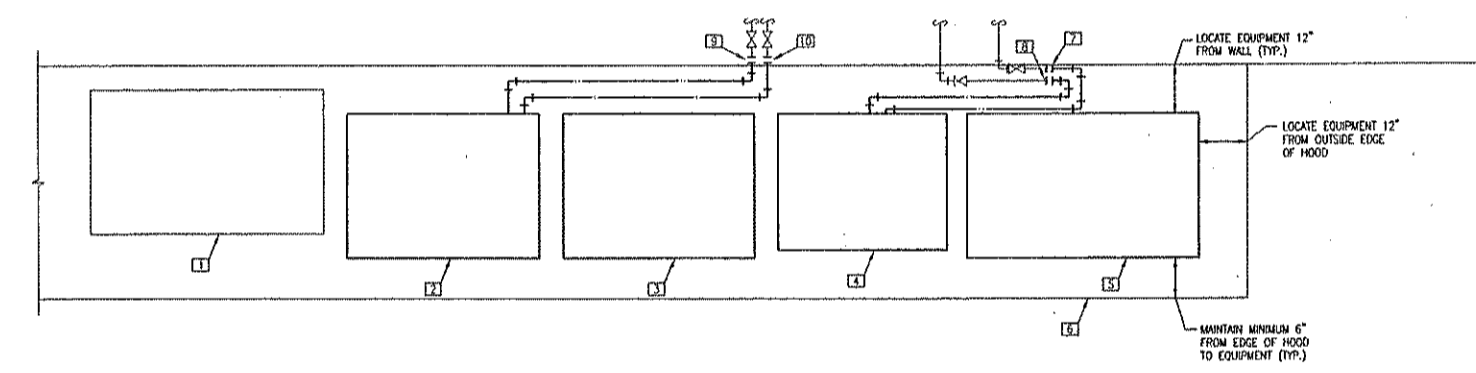
**SHEET**  
**ME2.2**  
 PARTIAL KITCHEN PLANS -  
 DEMOLITION/NEW WORK

- DEMOLITION LEGEND:**
- 1 EXISTING VULCAN TRIPLE STACK OVEN TO REMAIN IN EXISTING LOCATION.
  - 2 REMOVE EXISTING OVEN/RANGE-TOP. SALVAGE TO OWNER.
  - 3 EXISTING STEAM POT/KETTLE TO REMAIN AND TO BE RELOCATED. REFER TO NEW PLANS FOR NEW LOCATION.
  - 4 EXISTING TILT SKILLET/BRAZER TO REMAIN AND TO BE RELOCATED. REFER TO NEW PLANS FOR NEW LOCATION.
  - 5 EXISTING STEAM COOKER/HEATER TO REMAIN AND TO BE RELOCATED. REFER TO NEW PLANS FOR NEW LOCATION.
  - 6 EXISTING KITCHEN EXHAUST HOOD TO REMAIN IN EXISTING LOCATION.
  - 7 EXISTING VULCAN TRIPLE STACK OVEN TO REMAIN AND TO BE RELOCATED. REFER TO NEW PLANS FOR LOCATION. EXISTING ELECTRICAL TO REMAIN.
  - 8 REMOVE EXISTING FLEXIBLE CONDUIT FROM JUNCTION BOX TO EQUIPMENT. ABANDON CIRCUIT IN PLACE. DISCONNECT WIRES AND REMOVE WIRES WITHIN EXISTING PANELBOARD ENCLOSURE. RELABEL CIRCUIT BREAKER IN EXISTING PANEL "K". PROVIDE STAINLESS STEEL BLANK COVER PLATE OVER JUNCTION BOX.
  - 9 REMOVE EXISTING FLEXIBLE CONDUIT FROM EQUIPMENT TO JUNCTION BOX ON WALL. LEAVE WIRE LEADS TO RECONNECT NEW FLEXIBLE CONDUIT AND WIRES TO FOR NEW EQUIPMENT LOCATIONS. EXISTING FACEPLATE TO BE REMOVED.
  - 10 EXISTING 1/2" DCW AND DHW PIPING AND SHUT-OFF VALVE TO REMAIN. REMOVE AND CAP EXISTING FLEXIBLE CONNECTIONS AND FLEXIBLE PIPING TO EQUIPMENT. PREPARE 1/2" DCW AND DHW PIPING FOR NEW 3/8" FLEXIBLE WATER PIPE CONNECTION.



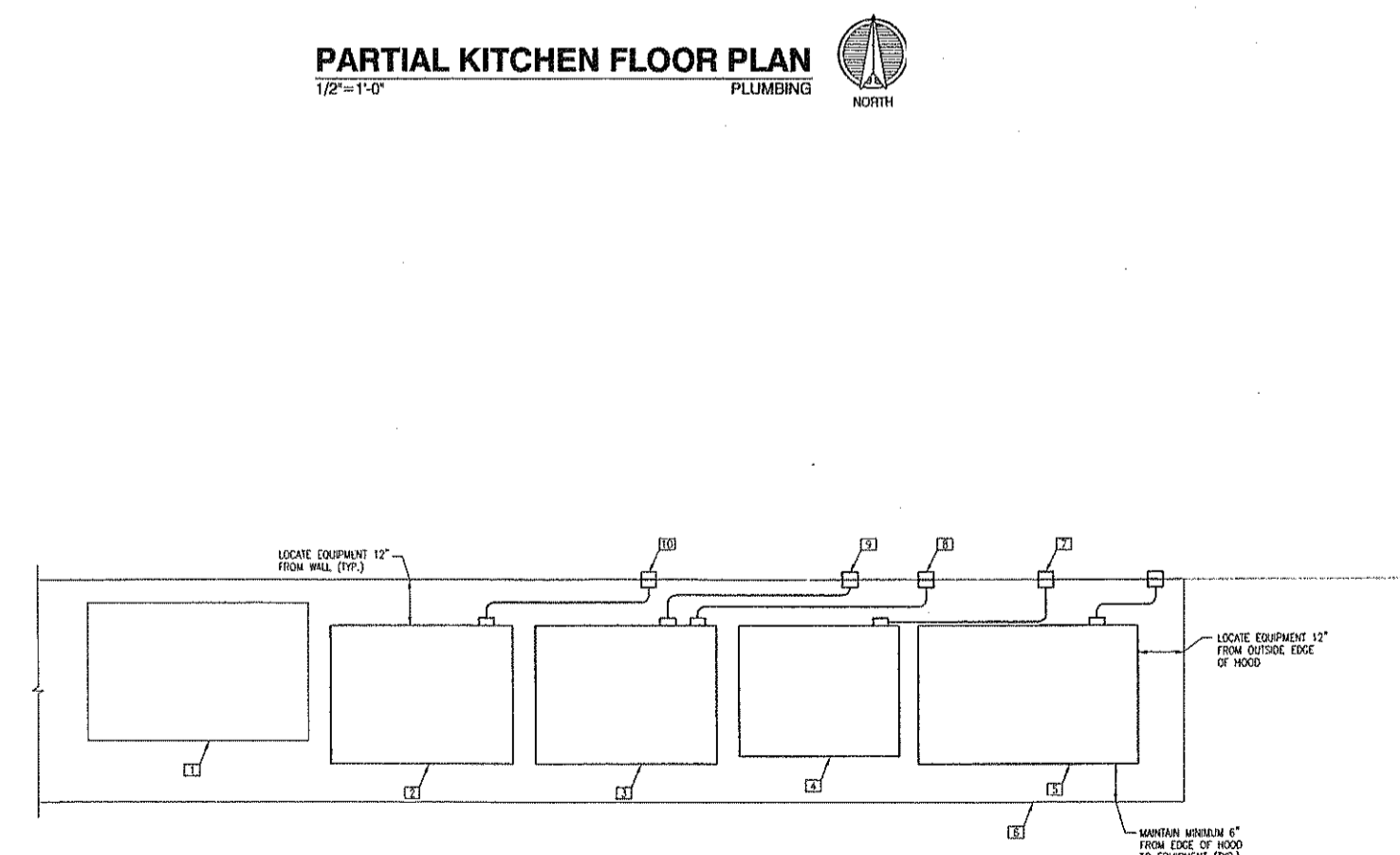
**PARTIAL KITCHEN FLOOR PLAN**  
 1/2"=1'-0" DEMOLITION

- DEMOLITION LEGEND:**
- 1 EXISTING VULCAN TRIPLE STACK OVEN TO REMAIN. NO MODIFICATIONS REQUIRED.
  - 2 EXISTING STEAM POT/KETTLE RELOCATED TO POSITION SHOWN.
  - 3 EXISTING TILT SKILLET/BRAZER RELOCATED TO POSITION SHOWN.
  - 4 EXISTING STEAM COOKER/HEATER RELOCATED TO POSITION SHOWN.
  - 5 EXISTING VULCAN TRIPLE STACK OVEN. NO MODIFICATIONS REQUIRED. EXISTING FLEXIBLE CONDUIT TO REMAIN. RELOCATE TO POSITION SHOWN.
  - 6 EXISTING KITCHEN EXHAUST HOOD TO REMAIN. NO MODIFICATIONS REQUIRED.
  - 7 PROVIDE NEW 3/8" DCW COPPER TUBING TO EXISTING STEAM COOKER/HEATER. CONNECT TO EXISTING 1/2" DCW PIPE.
  - 8 PROVIDE NEW 3/8" DHW COPPER TUBING TO EXISTING STEAM COOKER/HEATER. CONNECT TO EXISTING 1/2" DCW PIPE.
  - 9 PROVIDE NEW 3/8" DCW COPPER TUBING TO EXISTING STEAM POT/KETTLE. CONNECT TO EXISTING 1/2" DCW PIPE.
  - 10 PROVIDE NEW 3/8" DHW COPPER TUBING TO EXISTING STEAM POT/KETTLE. CONNECT TO EXISTING 1/2" DHW PIPE.



**PARTIAL KITCHEN FLOOR PLAN**  
 1/2"=1'-0" PLUMBING

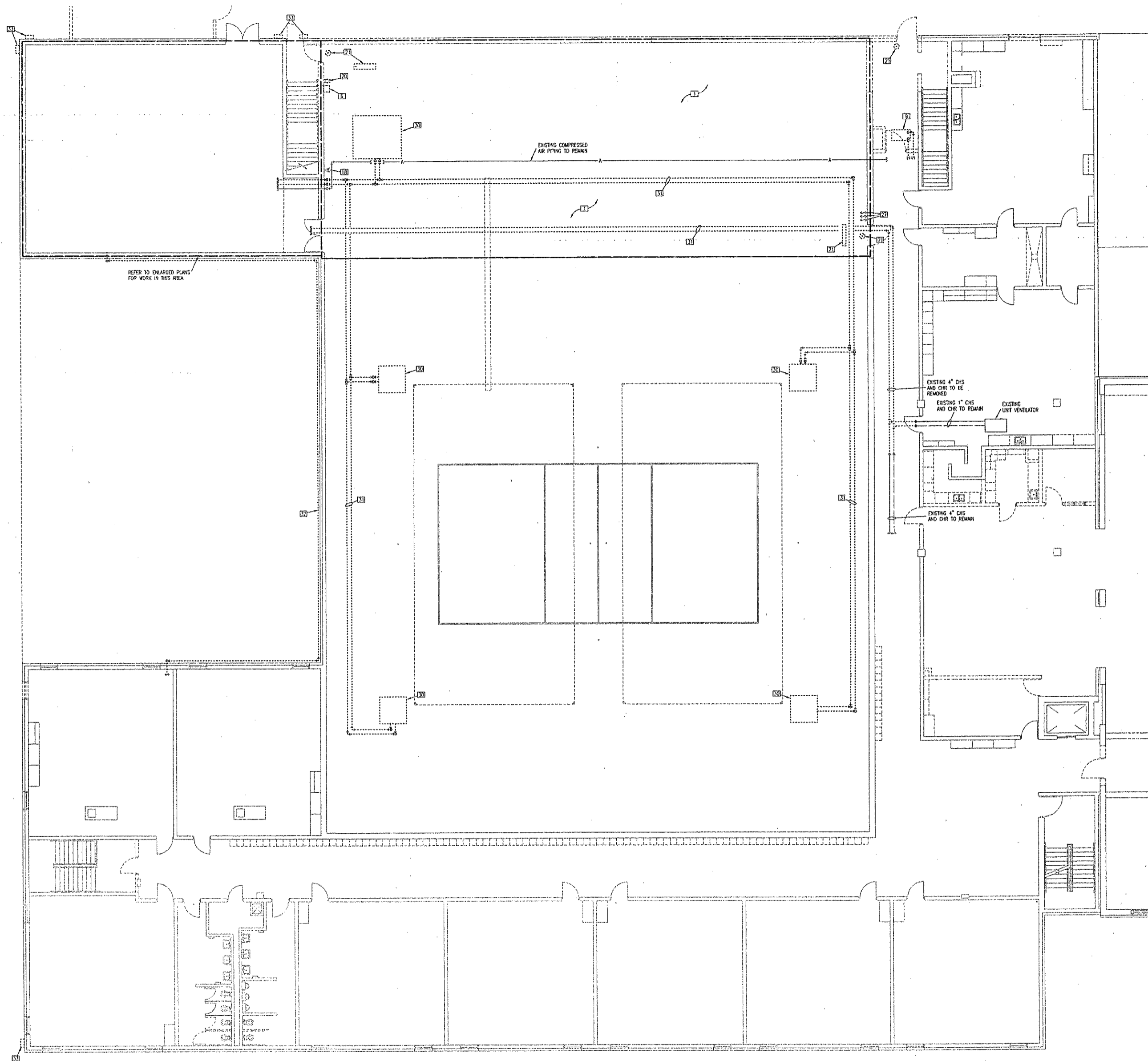
- POWER LEGEND:**
- 1 EXISTING VULCAN TRIPLE STACK OVEN TO REMAIN. NO MODIFICATIONS REQUIRED.
  - 2 EXISTING STEAM POT/KETTLE RELOCATED TO POSITION SHOWN.
  - 3 EXISTING TILT SKILLET/BRAZER RELOCATED TO POSITION SHOWN.
  - 4 EXISTING STEAM COOKER/HEATER, RELOCATED TO POSITION SHOWN.
  - 5 EXISTING VULCAN TRIPLE STACK OVEN. NO MODIFICATIONS REQUIRED. EXISTING FLEXIBLE CONDUIT TO REMAIN. RELOCATED TO POSITION SHOWN.
  - 6 EXISTING KITCHEN EXHAUST HOOD TO REMAIN. NO MODIFICATIONS REQUIRED.
  - 7 PROVIDE NEW SURFACE MOUNTED JUNCTION BOX MOUNTED TO EXISTING JUNCTION BOX. PROVIDE NEW (3) #6 AND (1) #8 GRD. IN 3/4" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM NEW JUNCTION BOX TO EXISTING STEAM COOKER/HEATER. CONNECT TO EXISTING CIRCUIT AT EXISTING JUNCTION BOX. CIRCUIT FED FROM 60A, 3P. CIRCUIT BREAKER IN EXISTING PANEL "K". VERIFY EXISTING WIRE SIZE AND CIRCUIT BREAKER. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK. PROVIDE SOLID COVER OVER NEW JUNCTION BOX.
  - 8 PROVIDE NEW SURFACE MOUNTED JUNCTION BOX MOUNTED TO EXISTING JUNCTION BOX. PROVIDE NEW (3) #12 AND (1) #12 GRD. IN 1/2" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM NEW JUNCTION BOX TO EXISTING TILT SKILLET/BRAZER. CONNECT TO EXISTING CIRCUIT AT EXISTING JUNCTION BOX. CIRCUIT FED FROM 20A, 3P. CIRCUIT BREAKER IN EXISTING PANEL "K". VERIFY EXISTING WIRE SIZE AND CIRCUIT BREAKER. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK. PROVIDE SOLID COVER OVER NEW JUNCTION BOX.
  - 9 PROVIDE NEW SURFACE MOUNTED JUNCTION BOX MOUNTED TO EXISTING JUNCTION BOX. PROVIDE NEW (3) #10 AND (1) #10 GRD. IN 3/4" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM NEW JUNCTION BOX TO EXISTING TILT SKILLET/BRAZER. CONNECT TO EXISTING CIRCUIT AT EXISTING JUNCTION BOX. CIRCUIT FED FROM 30A, 3P. CIRCUIT BREAKER IN EXISTING PANEL "K". VERIFY EXISTING WIRE SIZE AND CIRCUIT BREAKER. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK. PROVIDE SOLID COVER OVER NEW JUNCTION BOX.
  - 10 PROVIDE NEW SURFACE MOUNTED JUNCTION BOX MOUNTED TO EXISTING JUNCTION BOX. PROVIDE NEW (3) #8 AND (1) #10 GRD. IN 3/4" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM NEW JUNCTION BOX TO EXISTING STEAM POT/KETTLE. CONNECT TO EXISTING CIRCUIT AT EXISTING JUNCTION BOX. CIRCUIT FED FROM 40A, 3P. CIRCUIT BREAKER IN EXISTING PANEL "K". VERIFY EXISTING WIRE SIZE AND CIRCUIT BREAKER. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCEMENT OF WORK. PROVIDE SOLID COVER OVER NEW JUNCTION BOX.



**PARTIAL KITCHEN FLOOR PLAN**  
 1/2"=1'-0" POWER

**NOTES:**  
 1. WHERE WALLS ARE SHOWN TO BE REMOVED, REMOVE ALL DEVICES ON THOSE WALLS INCLUDING ALL THERMOSTATS, SWITCHES, RECEPTACLES, DATA OUTLETS, FIRE ALARM DEVICES. REMOVE ALL CONDUIT AND ASSOCIATED WIRING BACK TO PANELBOARDS. WHERE ONLY PART OF A CIRCUIT IS REMOVED, PROVIDE CIRCUIT CONTINUITY FOR RECEPTACLES, LIGHTING, PNEUMATIC TUBING, CONTROL WIRING, FIRE ALARM DEVICES ETC.

- LEGEND:**
- 1 REMOVE CEILING, ALL LIGHT FIXTURES, CEILING FANS, ALL GRILLES, REGISTERS, DIFFUSERS, ALL SMOKE DETECTORS, ALL CEILING MOUNTED SPEAKERS. PROVIDE CIRCUIT CONTINUITY FOR ANY EMERGENCY LIGHTING FIXTURES REMOVED. REMOVE ALL NORMAL POWER CIRCUITS TO ALL LIGHT FIXTURES BACK TO EXISTING PANELBOARD. ALL CIRCUIT BREAKERS TO REMAIN. ALL DUCTWORK TO BE REMOVED UNLESS NOTED OTHERWISE. PROVIDE CIRCUIT CONTINUITY FOR ALL FIRE ALARM DEVICES REMOVED AND ALL SPEAKERS REMOVED. REFER TO ARCHITECTURAL FOR COORDINATION OF ALL DEMOLITION AREAS. PROVIDE CIRCUIT CONTINUITY FOR CIRCUITS WHERE ONLY PART OF CIRCUIT IS REMOVED.
  - 2 REMOVE EXISTING FLOOR MOUNTED WATER CLOSET, REMOVE WASTE PIPE AND CAP FLUSH WITH TOP OF FLOOR. PATCH TO MATCH EXISTING FLOOR. CAP WATER INSIDE CHASE AT MAIN WATER PIPE.
  - 3 REMOVE EXISTING WALL AS NECESSARY TO FACILITATE REMOVAL OF WATER CLOSET AND FLUSH VALVES WHERE NOTED AND INSTALLATION OF NEW FIXTURES. REFER TO ARCHITECTURAL FOR ADDITIONAL PATCHING/REPAIR REQUIREMENTS.
  - 4 REMOVE FLUSH VALVE TO WATER CLOSET AND WATER BACK TO INSIDE CHASE. NEW FLUSH VALVE ON WIDE SIDE OF STALL TO BE PROVIDED. REFER TO NEW PLANS FOR REQUIREMENTS.
  - 5 REMOVE EXISTING TRANSFER GRILLE MOUNTED AT APPROXIMATELY 5'-0" AFF AND ASSOCIATED FIRE SMOKE DAMPER. PROVIDE CIRCUIT CONTINUITY FOR DAMPER POWER.
  - 6 REMOVE EXISTING WATER COOLERS. EXISTING RECEPTACLES TO REMAIN. REMOVE WASTE PIPE AND WATER PIPE AND CAP FLUSH WITH FACE OF WALL. PROVIDE COVERPLATE OVER EACH OPENING IN WALL. REMOVE ALL MOUNTING HARDWARE FLUSH WITH FACE OF WALL.
  - 7 REMOVE EXISTING WINDOW MOUNTED A/C UNIT. REMOVE CONDUIT AND CONDUCTORS BACK TO PANELBOARD, CIRCUIT BREAKERS TO REMAIN. REFER TO ARCHITECTURAL FOR PATCHING REQUIREMENTS.
  - 8 REMOVE EXISTING GRILLES AND TRANSFER DUCTS. REMOVE FIRE DAMPER AT WALL OPENING TO REMAIN AT WALL. REFER TO NEW FOR NEW TRANSFER DUCT AND OPENING SIZE AT WALL.
  - 9 REMOVE EXISTING UNIT VENTILATOR/FCL ALL ASSOCIATED DUCTWORK, ALL ASSOCIATED CHS AND CHR PIPING, ALL THERMOSTATS AND CONTROLS AND POWER CONNECTIONS. REMOVE EXISTING OA INTAKE AT ROOF. PATCH OPENING AND ROOF TO MATCH EXISTING. REMOVE ALL CHR PIPING. REMOVE ALL CHS PIPING BACK TO MAIN AND CAP AT MAIN. REMOVE ALL CONDUIT AND CONDUCTORS FOR POWER BACK TO MAIN. CONTRACTOR TO VERIFY CONTROL WIRING CONNECTIONS. REMOVE ALL CONTROL WIRING AND DEVICES ASSOCIATED WITH UNITS TO BE REMOVED. PROVIDE CIRCUIT CONTINUITY TO OTHER UNITS NOT TO BE REMOVED. WHERE THERMOSTATS ARE TO BE REMOVED IN WALLS THAT ARE TO REMAIN, PROVIDE BLANK COVERPLATE OVER OPENINGS.
  - 10 REMOVE EXISTING TRANSFER DUCT AND ASSOCIATED GRILLES AND FIRE DAMPERS. REFER TO ARCHITECTURAL FOR PATCHING REQUIREMENTS IN WALL TO REMAIN.
  - 11 REMOVE EXISTING CONDENSATE DRAIN PIPING FROM UNIT VENTILATORS TO WALL. FOR LOCATION WHERE WALL IS TO BE REMOVED, REMOVE PIPING TO FLUSH WITH FINISH FLOOR. CAP AT FLOOR AND PATCH FLOOR TO MATCH NEW. FOR ALL OTHER LOCATIONS, REMOVE PIPE TO WALL AND CAP FLUSH WITH WALL. PROVIDE COVERPLATE AT THESE LOCATIONS. PATCH WALL TO MATCH NEW AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
  - 12 REMOVE EXISTING PLUMBING FIXTURES. REMOVE ALL WATER PIPING BACK TO EXISTING MAIN AND CAP. REMOVE ALL WASTE PIPING TO MAIN AS SHOWN AND CAP. REMOVE ALL VENT PIPING AND VTR. PATCH ROOF TO MATCH EXISTING. PATCH ALL HOLES IN FLOOR TO MATCH NEW.
  - 13 REMOVE EXISTING GREASE TRAP IN FLOOR, SAWCUT FLOOR TO REMOVE. REMOVE ALL ASSOCIATED WASTE PIPING AND VENT PIPING. CAP WASTE PIPING AT MAIN AS SHOWN. PATCH FLOOR TO MATCH EXISTING.
  - 14 REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED WASTE AND VENT PIPING. CAP WASTE AT MAIN AS SHOWN.
  - 15 REMOVE EXISTING DISHWASHER, BOOSTER HEATER, SINK AND GARBAGE DISPOSAL, AS WELL AS ALL ASSOCIATED WASTE PIPING BACK TO MAIN AS SHOWN. ALL WATER CONNECTIONS JACK TO MAIN. ALL VENT PIPING, ALL POWER CONNECTIONS INCLUDING CONDUIT AND CONDUCTORS BACK TO PANELBOARDS. ALL INTERCONNECTING PIPING AND CONDUIT, DISHWASHER, BOOSTER HEATER, SINK AND GARBAGE DISPOSALS TO BE RELOCATED TO NEW LOCATION. REFER TO PLANS.
  - 16 EXISTING DCW, DWH AND WASTE PIPING TO REMAIN. REFER TO NEW PLANS FOR ADDITIONAL CONNECTIONS.
  - 17 EXISTING DCW SERVICE TO BE REMOVED TO INSIDE BUILDING. PATCH WALL PENETRATIONS. REFER TO CIVIL DRAWINGS. REFER TO NEW DRAWINGS FOR CONNECTIONS TO EXISTING.
  - 18 REMOVE EXISTING THERMOSTAT. PROVIDE BLANK COVERPLATE AT WALL. REMOVE ALL CONTROL WIRING AND PNEUMATIC TUBING TO UNITS. SALVAGE THERMOSTAT TO OWNER.
  - 19 REMOVE EXISTING BELL AND PROVIDE CIRCUIT CONTINUITY.
  - 20 REMOVE EXISTING RECEPTACLE, DATA OUTLET, LIGHT SWITCH AND PROVIDE CIRCUIT CONTINUITY.
  - 21 REMOVE EXISTING LIGHT FIXTURES, JUNCTION BOX AND CIRCUIT TO REMAIN. PROVIDE CIRCUIT CONTINUITY.
  - 22 REMOVE EXISTING 24x48 RA GRILLE. RELOCATE TO NEW POSITION INDICATED ON NEW PLANS. PATCH CEILING TO MATCH EXISTING. DUCTWORK TO BE EXTENDED TO NEW LOCATION. REFER TO NEW PLANS.
  - 23 REMOVE EXISTING THERMOSTAT, PNEUMATIC TUBING AND CONTROL WIRING TO ABOVE CEILING. PREPARE FOR EXTENSION OF WIRING/PNEUMATIC TUBING TO RELOCATED POSITION. REFER TO NEW PLANS.
  - 24 EXISTING LIGHT SWITCH AND FAN SWITCH TO REMAIN.
  - 25 EXISTING EXHAUST FAN, ASSOCIATED CONDUIT AND CONDUCTORS, DUCTWORK AND ROOF PENETRATIONS TO BE REMOVED. PATCH ROOF TO MATCH EXISTING. REMOVE CONDUIT/CONDUCTORS BACK TO PANEL. CIRCUIT BREAKER TO REMAIN.
  - 26 EXISTING RECEPTACLE TO REMAIN. PROVIDE CIRCUIT CONTINUITY FOR EXISTING CIRCUIT.
  - 27 REMOVE EXISTING LIGHT SWITCH/FAN SWITCH AND WIRING. PROVIDE BLANK COVERPLATE.
  - 28 EXISTING WALK-IN EXTERIOR FREEZER TO BE REMOVED AND RELOCATED. REMOVE EXISTING EXPOSED CONDUIT AND PULL BOX ON RETAINING WALL. REMOVE EXPOSED CONDUIT ON BUILDING WALL. LB ON BUILDING TO BE REMOVED. REFER TO NEW PLANS FOR LOCATION OF FREEZER. REMOVE CONDUIT AND CONDUCTORS FROM FREEZER TO PANELBOARD.
  - 29 REMOVE EXISTING LB ON WALL FOR SITE LIGHTING. REMOVE CIRCUIT BACK TO PANELBOARD.
  - 30 REMOVE EXISTING AHU, ASSOCIATED SUPPORTS, TEMPERATURE CONTROL WIRING BACK TO MAIN PANEL, ASSOCIATED POWER CONNECTIONS INCLUDING ALL CONDUIT, WIRING AND SUPPORTS BACK TO PANELBOARD. ALL CHS AND CHR PIPING, IF POSSIBLE, REUSE EXISTING PIPE SUPPORTS FOR NEW PIPING AND/OR DUCTWORK. REFER TO NEW PLANS.
  - 31 REMOVE ALL EXISTING CHS AND CHR PIPING AND SUPPORTS BACK TO MECHANICAL ROOM. IF POSSIBLE, REUSE EXISTING PIPE SUPPORTS FOR NEW PIPING AND/OR DUCTWORK. REFER TO NEW PLANS.
  - 32 REMOVE EXISTING 3/4" GAS ON ROOF PENETRATIONS THROUGH WALLS TO REMAIN FOR CONNECTION TO NEW. REFER TO NEW PLANS.
  - 33 REMOVE LIGHT FIXTURE. PROVIDE JUNCTION BOX ON INTERIOR OF WALL/ROOF. ABANDON CIRCUIT IN JUNCTION BOX. REPAIR PENETRATION THROUGH WALL/ROOF AS REQUIRED TO MATCH EXISTING.



**SECOND FLOOR DEMOLITION PLAN - SOUTHEAST**  
 1/8"=1'-0"  
 MECHANICAL/ELECTRICAL



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PROJECT NO 9926.03  
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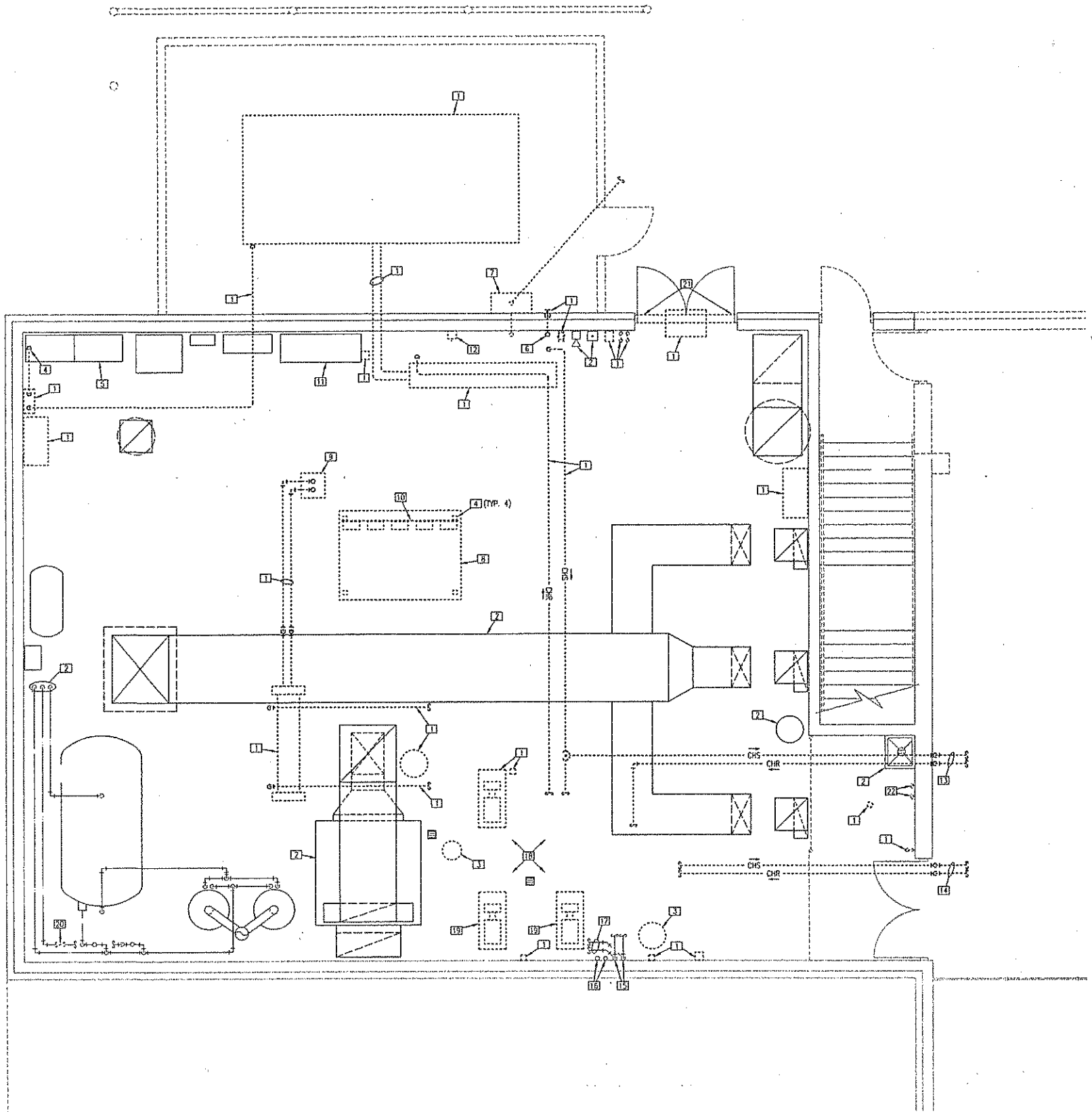
**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**ME2.3**  
 SECOND FLOOR DEMOLITION  
 PLAN - SOUTHEAST -  
 MECHANICAL/ELECTRICAL



- LEGEND:**
- 1 EXISTING TO BE REMOVED.
  - 2 EXISTING TO REMAIN.
  - 3 EXISTING TO BE RETAINED FOR REUSE.
  - 4 PROVIDE HOLE PLUG AT TOP OF SWITCHGEAR.
  - 5 RELABEL SMALL CHILLER SWITCH AS "SPARE".
  - 6 CAP DCW AT CEILING.
  - 7 FIBER OPTICS SERVICE TO BE RELOCATED. REFER TO TELECOM SHEETS.
  - 8 REMOVE ROOFTOP CHILLER, STRUCTURE, SUPPORT POSTS, ETC.
  - 9 PATCH ROOF PENETRATION.
  - 10 REMOVE GYMNASIUM AHU VFD'S, CONDUIT AND WIRE TO GYM UNITS AND BACK INTO "MCC".
  - 11 LABEL "MCC" DEVICES SERVING GYM UNITS AS SPARE.
  - 12 REMOVE EMERGENCY LIGHTING CONTACTOR AND INVERTER CIRCUITS BACK TO LAST FIXTURE TO REMAIN UNDER PHASE I. SEE LIGHTING SHEETS.
  - 13 REMOVE GYMNASIUM 2-PIPE SYSTEM PIPING.
  - 14 REMOVE "CORE" CLASSROOM COOLING/2-PIPE SYSTEM PIPING.
  - 15 EXISTING CHS/CHR SERVING SOUTH WING TO REMAIN FOR CONNECTION. DISCONNECT PIPING 24" ABOVE FLOOR AND REMOVE.
  - 16 EXISTING HWS/HWR TO EXISTING BOILER PLANT TO REMAIN FOR REUSE. REMOVE PIPING 24" ABOVE FLOOR.
  - 17 REMOVE KITCHEN AHU PIPING BACK TO CONTROL VALVE/COIL FITTINGS.
  - 18 REMOVE ALL PIPING, VALVES, ETC. THIS AREA EXCEPT THAT TO KITCHEN AHU AFTER NEW HEATING PLANT IS ACTIVE.
  - 19 2-PIPE SYSTEM PUMPS SHALL BE REMOVED AFTER NEW HEATING PLANT IS ACTIVE.
  - 20 CHECK VALVE TO BE REPLACED.
  - 21 PROVIDE NEW LINTEL AND REMOVE BLOCK COURSES AS REQUIRED FOR NEW PIPING.
  - 22 REMOVE PIPING AND CAP BELOW FLOOR, PATCH.

- NOTES:**
1. UNLESS NOTED OTHERWISE, ITEMS IN MECHANICAL ROOM SHALL REMAIN.
  2. REMOVE ALL PIPING, ELECTRICAL CONTROLS, WIRING, STRUCTURAL SUPPORTS, SWITCHES, DUCTWORK, HANGERS, ETC. ASSOCIATED WITH ITEMS INDICATED TO BE REMOVED UNLESS NOTED OTHERWISE. NO SUPERFLUOUS EQUIPMENT SHALL REMAIN.
  3. ITEMS, IF ANY, TO BE SALVAGED TO OWNER WILL BE IDENTIFIED BY OWNER PRIOR TO BID. OTHERWISE CONTRACTOR SHALL REMOVE ITEMS TO OFF-SITE FOR PROPER DISPOSAL.
  4. PATCH ALL OPENINGS, CAP PIPING WHERE APPLICABLE, REPAIR CEILING, WALL AND ROOF PENETRATIONS/DEMO TO MATCH EXISTING.
  5. PROVIDE BLANK COVER PLATES FOR FLUSH BACKBOXES TO REMAIN.
  6. REMOVE ALL EXISTING CEILING LUMINAIRES, CONDUIT, WIRE AND SWITCHES.
  7. DEMOLITION OF EXISTING 2-PIPE SYSTEM SHALL BE SEQUENCED SUCH THAT SCHOOL IS NOT WITHOUT HEAT FOR AN EXTENDED PERIOD. REMOVAL OF 2-PIPE SYSTEM PIPING AND PUMPS SHALL OCCUR AFTER NEW HEATING PLANT IS INSTALLED. REMOVAL OF BOTH CHILLERS AND CORE PUMP MAY OCCUR AS REQUIRED TO INSTALL NEW SYSTEMS.



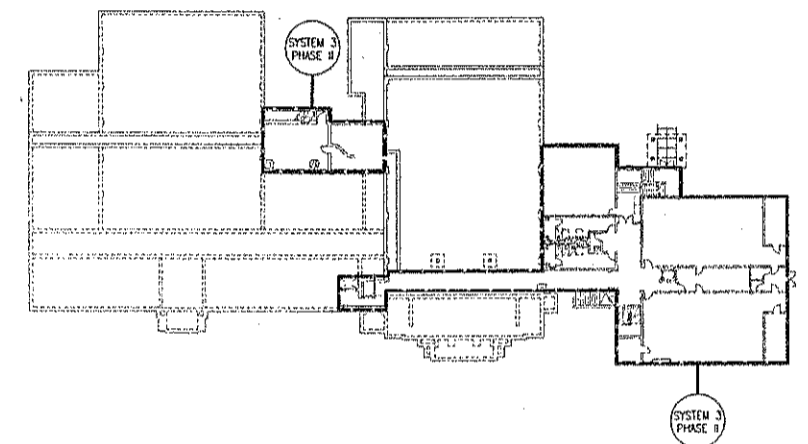
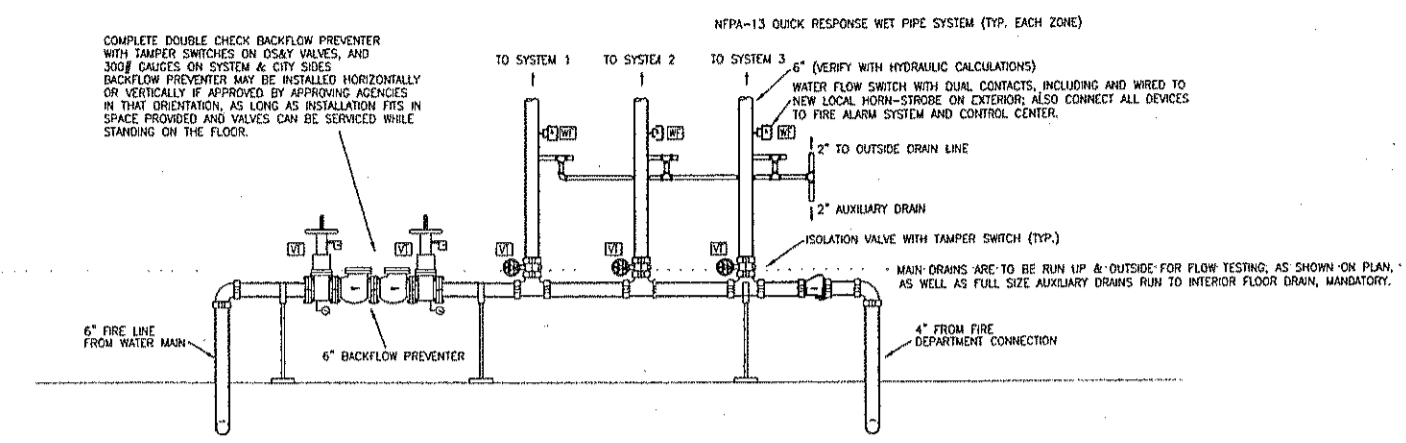
**EXISTING MECHANICAL ROOM DEMOLITION PLAN**  
 1/4"=1'-0"  
 MECHANICAL/ELECTRICAL  
 NORTH

- NOTES:**
1. PROVIDE WET-PIPE SPRINKLER PROTECTION UNDER THE SCOPE OF NFPA-13 FOR ALL PHASE I AREAS SHOWN ON THIS SHEET, WITHIN THE SPRINKLER BOUNDARY UNLESS SPECIFICALLY NOTED OTHERWISE. LAYOUTS SHALL BE PER NFPA 13 OR LOCAL CODE REQUIREMENTS. PHASE II AREAS SHALL BE INSTALLED UNDER PHASE II CONTRACT. PHASE I CONTRACTOR SHALL HYDRAULICALLY SIZE SERVICE ENTRANCE TO HANDLE ALL AREAS, PHASE I AND PHASE II, AND SIZE PHASE II PIPING TO SERVE SYSTEM 3.
  2. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION WITH OTHER TRADES.
  3. INSPECTORS TEST CONNECTIONS, RISERS, DRAINS, SYSTEM PIPING, PIPING OFFSETS AND COORDINATION WITH OTHER SYSTEMS HAS NOT BEEN SHOWN. THESE AND ALL OTHER INFORMATION REQUIRED FOR COMPLETE AND OPERABLE SYSTEMS SHALL BE SUBMITTED WITH SYSTEM DRAWINGS.
  4. RISERS AND SYSTEM PIPING SHALL BE HYDRAULICALLY SIZED.
  5. FIELD VERIFY ALL EXISTING CEILING SYSTEMS, STRUCTURAL, ROUTING AND TOTAL SCOPE OF WORK IN EXISTING AREAS PRIOR TO BID.

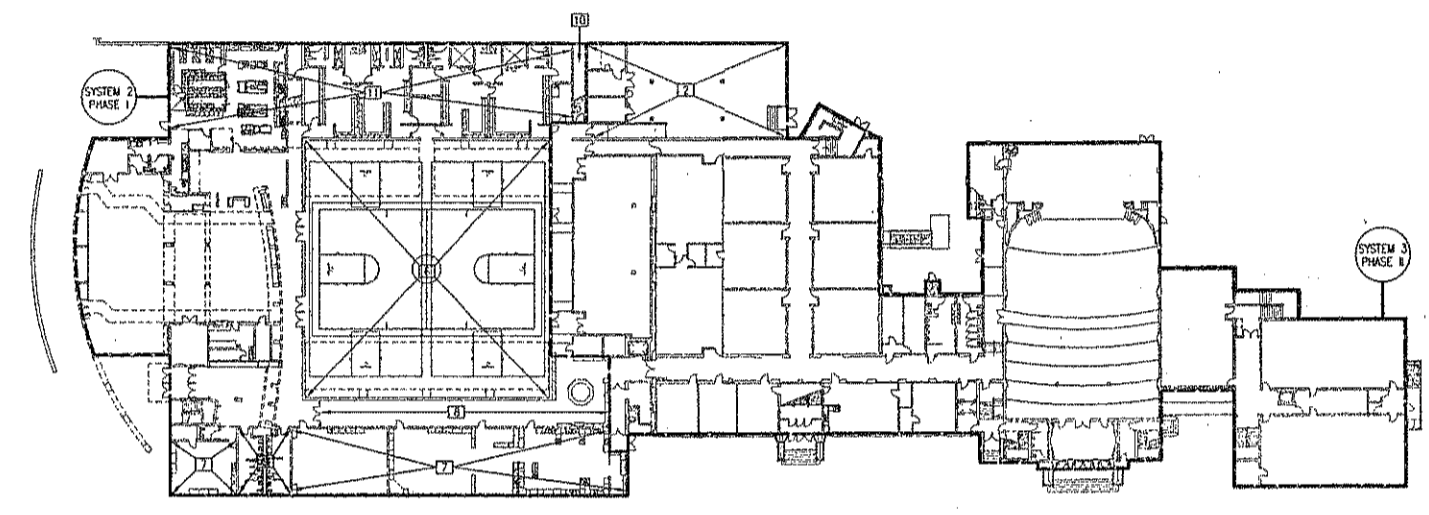
- LEGEND:**
- 1 REFER TO RISER DETAIL.
  - 2 SPRINKLER DESIGN FOR ORDINARY HAZARD GROUP 1 OCCUPANCY IN WOOD SHOP AREAS. OTHERS ARE LIGHT HAZARD AS PER NFPA.
  - 3 COORDINATE FEED MAIN AND RISER LOCATIONS WITH THE GENERAL CONTRACTOR. FINAL LOCATION SUBJECT TO APPROVAL BY THE ENGINEER.
  - 4 PROVIDE UPRIGHT HEADS WITH HEAD GUARDS IN GYMNASIUM AREAS.
  - 5 SYSTEM 3 ROUGH-IN PIPING UP TO PHASE II BOUNDARY BY PHASE I CONTRACTOR.
  - 6 OPEN TO ABOVE. SEE SECOND FLOOR PLAN.
  - 7 REMOVE AND REINSTALL EXISTING CEILINGS, LUMINAIRES AND OTHER SYSTEMS AS REQUIRED FOR PIPING INSTALLATION IN CLASSROOM AREAS. COORDINATE REQUIRED CLEARANCE, PIPING AND HEAD LOCATION WITH LUMINAIRES AND OTHER TRADES ACCORDINGLY.
  - 8 EXISTING CORRIDOR AREAS ARE TO BE REMODELED UNDER PHASE II. IN PHASE I, CEILINGS ARE TO BE REMOVED AND EXISTING LUMINAIRES TEMPORARILY SUPPORTED UNTIL PHASE II WORK BEGINS. SPRINKLER CONTRACTOR SHALL USE CORRIDOR AS PATH FOR MAIN PIPING TO SERVE CLASSROOMS. PROVIDE BRANCH TAPS TO SERVE FUTURE HEADS INSTALLED BY OTHERS UNDER PHASE II WHEN FINAL CORRIDOR CEILING WORK IS COMPLETED.
  - 9 EXISTING HARD CEILING AND SURFACE LUMINAIRES TO BE REPLACED WITH NEW DROP CEILING AND RECESSED LUMINAIRES. COORDINATE ACCORDINGLY.
  - 10 VERIFY EXISTING CEILING TYPES AND BEST ROUTING IN STAIR AREAS.
  - 11 INSTALL SPRINKLER PIPING EXPOSED IN EXISTING KITCHEN AND LOCKER AREAS. REMOVE AND REINSTALL CEILING AS REQUIRED TO SUPPORT PIPING. PAINT TO MATCH EXISTING SURFACES AS DIRECTED PER ARCHITECTURAL.
  - 12 INACCESSIBLE "ATTIC" SPACE BETWEEN TWO ROOFS. FIELD VERIFY HEAD TYPE, PLACEMENT AND SCOPE OF WORK.

**FIRE PROTECTION SYMBOLS**

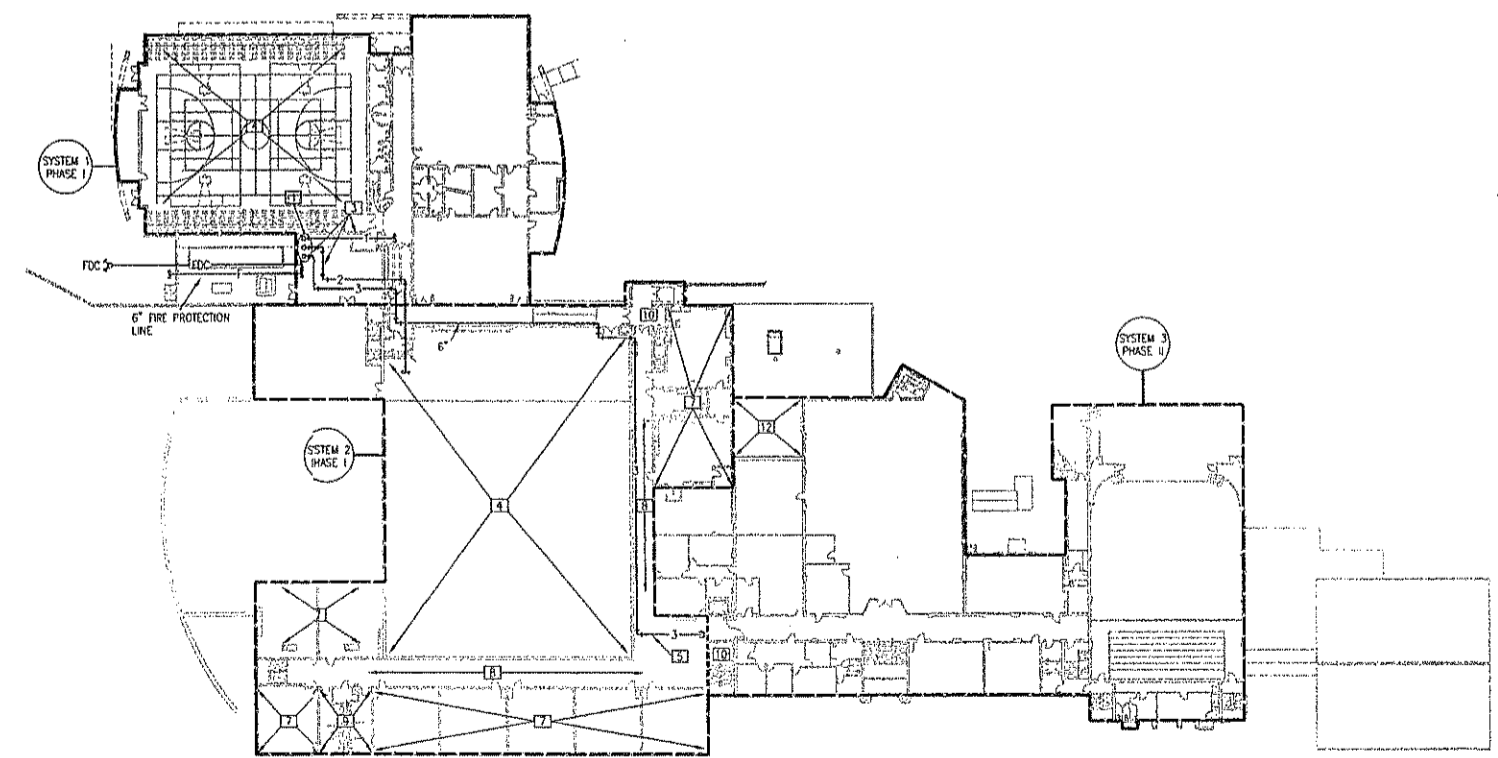
WATERFLOW SWITCH	VALVE TAMPER SWITCH
FIRE DEPARTMENT SERVICE CONNECTION	CHECK VALVE
OS&Y VALVE	NEW FEED MAIN
FIRE DEPARTMENT CONNECTION	FIRE DEPARTMENT CONNECTION
SPRINKLER SYSTEM BOUNDARY	



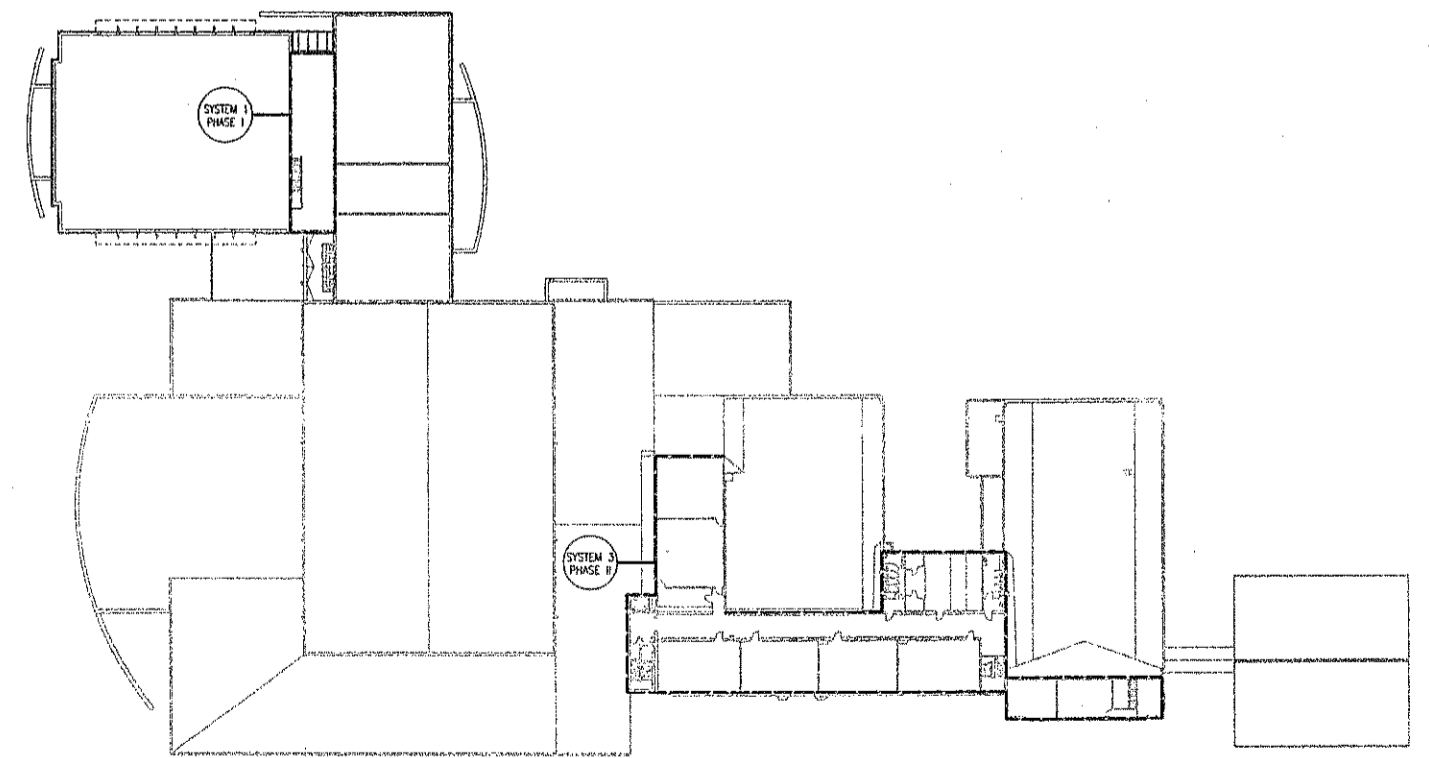
**GROUND FLOOR PLAN**  
 1"=40'-0"  
 FIRE PROTECTION  
 NORTH



**FIRST FLOOR PLAN**  
 1"=40'-0"  
 FIRE PROTECTION  
 NORTH



**SECOND FLOOR PLAN**  
 1"=40'-0"  
 FIRE PROTECTION  
 NORTH



**THIRD FLOOR PLAN**  
 1"=40'-0"  
 FIRE PROTECTION  
 NORTH

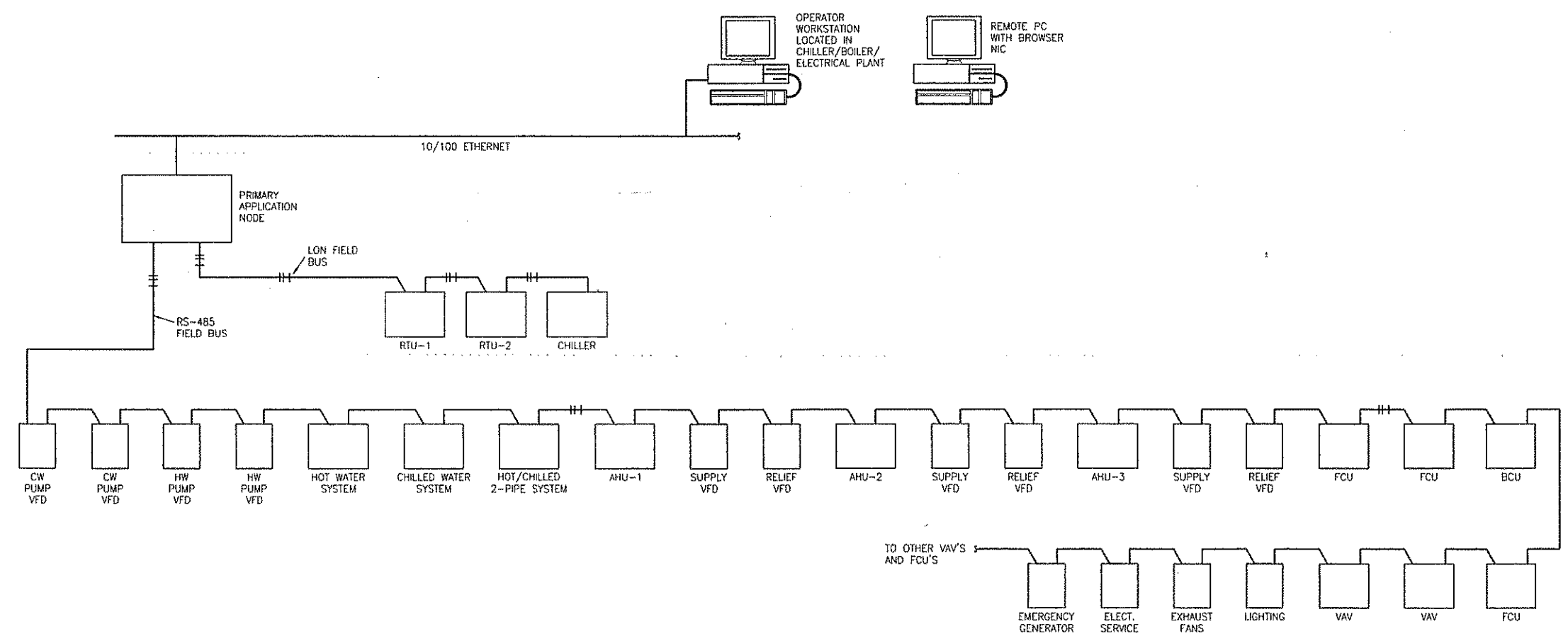
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**SHEET**  
**ME3.1**  
 FIRE PROTECTION PLANS

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**FMS NETWORK OVERVIEW**  
 NO SCALE

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WAMEGO HIGH SCHOOL IMPROVEMENTS	FACILITY MANAGEMENT AND CONTROL SYSTEM POINT LIST												NOTES
	INPUTS			SYSTEM FEATURES			MISCELLANEOUS						
	ANALOG	DIGITAL	SW PPS	ALARMS	RELAY	TRIP	THROW	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
<b>HOT WATER SYSTEM</b>													
OUTDOOR AIR TEMPERATURE	*												
BUILDING LOOP HOT WATER RETURN TEMPERATURE	*												
RESET LOOP HOT WATER RETURN TEMPERATURE	*												
B-1 HOT WATER SUPPLY TEMPERATURE	*												
B-2 HOT WATER SUPPLY TEMPERATURE	*												
B-3 HOT WATER SUPPLY TEMPERATURE	*												
PRIMARY LOOP HOT WATER SUPPLY TEMPERATURE	*												
SECONDARY LOOP HOT WATER SUPPLY TEMPERATURE	*												
HOT WATER SYSTEM DIFFERENTIAL PRESSURE	*												
HWP-1 RUN STATUS		*											
HWP-2 RUN STATUS		*											
HWP-3 RUN STATUS		*											
B-1 ALARM STATUS		*											
B-2 ALARM STATUS		*											
B-3 ALARM STATUS		*											
HOT WATER RESET VALVE		*											
HWP-1 VFD CONTROL		*											
HWP-2 VFD CONTROL		*											
HWP-3 VFD CONTROL		*											
HWP-1 START/STOP		*											
HWP-2 START/STOP		*											
HWP-3 START/STOP		*											
B-1 ENABLE		*											
B-2 ENABLE		*											
B-3 ENABLE		*											

WAMEGO HIGH SCHOOL IMPROVEMENTS	FACILITY MANAGEMENT AND CONTROL SYSTEM POINT LIST												NOTES
	INPUTS			SYSTEM FEATURES			MISCELLANEOUS						
	ANALOG	DIGITAL	SW PPS	ALARMS	RELAY	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
<b>CHILLED WATER SYSTEM</b>													
BUILDING LOOP CHILLED WATER RETURN TEMPERATURE	*												
BUILDING LOOP CHILLED WATER SUPPLY TEMPERATURE	*												
CHILLED WATER RETURN TEMPERATURE	*												
CHILLED WATER SUPPLY TEMPERATURE	*												
CHILLED WATER SYSTEM DIFFERENTIAL PRESSURE	*												
CWP-1 RUN STATUS		*											
CWP-2 RUN STATUS		*											
PCWP-1 RUN STATUS		*											
PCWP-2 RUN STATUS		*											
CHILLER ALARM STATUS		*											
CWP-1 VFD CONTROL		*											
CWP-2 VFD CONTROL		*											
PCWP-1 START/STOP		*											
PCWP-2 START/STOP		*											
CHILLER ENABLE		*											
<b>CHILLER CH-1</b>													
CHILLED WATER SETPOINT	*												VA LOW INTERFACE
CHILLER CAPACITY RUN LOAD AMPS	*												VA LOW INTERFACE
ENTERING CHILLED WATER TEMPERATURE	*												VA LOW INTERFACE
LEAVING CHILLED WATER TEMPERATURE	*												VA LOW INTERFACE
CHILLER STATUS	*												VA LOW INTERFACE
CHILLER ALARM DESCRIPTION	*												VA LOW INTERFACE
CURRENT LIMIT SETPOINT	*												VA LOW INTERFACE
CHILLER ENABLE/DISABLE	*												VA LOW INTERFACE

WAMEGO HIGH SCHOOL IMPROVEMENTS	FACILITY MANAGEMENT AND CONTROL SYSTEM POINT LIST												NOTES
	INPUTS			SYSTEM FEATURES			MISCELLANEOUS						
	ANALOG	DIGITAL	SW PPS	ALARMS	RELAY	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
<b>CHILLED/HOT WATER SYSTEM</b>													
CHILLED/HOT WATER RETURN TEMPERATURE	*												
CHILLED/HOT WATER SUPPLY TEMPERATURE	*												
CWP-1 RUN STATUS		*											
CWP-2 RUN STATUS		*											
CWP-1 START/STOP		*											
CWP-2 START/STOP		*											
HEAT/COOL CHANGEOVER VALVES	*												
<b>AIR HANDLING UNIT #1 - CAETERA</b>													
RETURN AIR TEMPERATURE	*												
DISCHARGE AIR TEMPERATURE	*												
MIXED AIR TEMPERATURE	*												AVERAGING SENSOR
SUPPLY DUCT STATIC PRESSURE	*												
SPACE STATIC PRESSURE	*												
OUTDOOR AIR FLOW	*												SIGNAL FROM TRAQ DPR
SUPPLY FAN STATUS	*												
LOW TEMPERATURE SWITCH STATUS	*												
HIGH DUCT STATIC SWITCH STATUS	*												
OUTDOOR/RETURN DAMPERS	*												
COOLING COIL VALVE	*												
FRESH AIR VALVE	*												
SUPPLY FAN VFD CONTROL	*												
RELIEF FAN VFD CONTROL	*												
OCCUPIED SPACE COOLING SETPOINT	*												
OCCUPIED SPACE HEATING SETPOINT	*												
OCCUPIED/OCCUPYING MODE	*												
SUPPLY FAN START/STOP	*												
RELIEF FAN START/STOP	*												

WAMEGO HIGH SCHOOL IMPROVEMENTS	FACILITY MANAGEMENT AND CONTROL SYSTEM POINT LIST												NOTES
	INPUTS			SYSTEM FEATURES			MISCELLANEOUS						
	ANALOG	DIGITAL	SW PPS	ALARMS	RELAY	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
<b>AIR HANDLING UNIT #2 - MUSIC AREA</b>													
RETURN AIR TEMPERATURE	*												
DISCHARGE AIR TEMPERATURE	*												
MIXED AIR TEMPERATURE	*												
SUPPLY DUCT STATIC PRESSURE	*												
SPACE STATIC PRESSURE	*												
OUTDOOR AIR FLOW	*												
SUPPLY FAN STATUS	*												
LOW TEMPERATURE SWITCH STATUS	*												
HIGH DUCT STATIC SWITCH STATUS	*												
OUTDOOR/RETURN DAMPERS	*												
COOLING COIL VALVE	*												
FRESH AIR VALVE	*												
SUPPLY FAN VFD CONTROL	*												
RELIEF FAN VFD CONTROL	*												
OCCUPIED SPACE COOLING SETPOINT	*												
OCCUPIED SPACE HEATING SETPOINT	*												
OCCUPIED/OCCUPYING MODE	*												
SUPPLY FAN START/STOP	*												
RELIEF FAN START/STOP	*												

**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**ME4.1**  
 AUTOMATIC  
 TEMPERATURE CONTROLS





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 Architects and Planning Consultants  
 1115 Westport Drive, Suite F  
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Wamego High School Improvements  
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SHEET  
**ME4.3**  
 SEQUENCES OF OPERATION

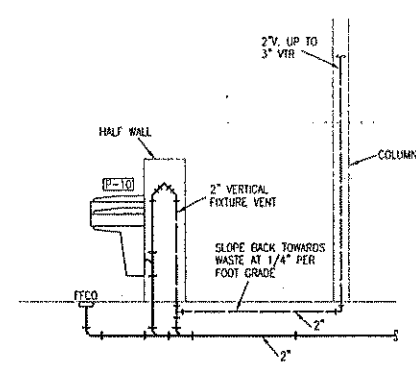
FMS SYSTEM SEQUENCES OF OPERATION															
<p><b>A. VARIABLE AIR VOLUME AIR HANDLING UNIT W/ PREHEAT</b>                      (Typical for the following units: Coliseum ME-1 &amp; Music Area AHU-2)</p> <ol style="list-style-type: none"> <li>The supply fan variable frequency drive (VFD) will be started and stopped by an occupied/unoccupied time schedule set up by the Facilities personnel. The unit status shall be obtained via the serial interface between the drive and the FMS.</li> <li>When the controller puts the system into the occupied mode, outdoor air damper will open to allow minimum outdoor air into the system. An air flow station in the outdoor air intake to the unit will indicate the CFM of outdoor air that is introduced into the system. Minimum outdoor air will be shown on the schedule.</li> <li>When the outdoor air temperature is below the economizer setpoint of 57 degrees, the outdoor air damper and the return air damper will be modulated in sequence as required to maintain a constant 55 degree discharge air temperature. The return air damper will go partly closed as the outdoor damper opens. A mixed air low limit will override the discharge control to keep the mixed air from dropping below 45 degrees F.</li> <li>The 2-way preheat water valve shall be modulated as required to maintain a discharge temperature of 55 degrees F.</li> <li>The 2-way chilled water valve will modulate in sequence as necessary to maintain a constant 55 degree F discharge temperature. When the supply fan is off, the chilled water valve will be closed to the coil, and the preheat valve will remain under control. The valves will both go open if a low temperature condition exists as described in paragraph 9 below.</li> <li>The supply fan VFD will be controlled as required to maintain a 1 inch water gauge static setpoint in the duct. Upon initial system start-up, the VFD will be ramped up to setpoint. When the supply fan is off, the VFD will go to OFF position. Command signals shall be sent via the serial interface or via a hardwired 4-20mA signal.</li> <li>The relief air fan will be started and the VFD will be modulated to maintain a 0.05"WC positive static in the space according to the space static pressure sensor.</li> <li>During the unoccupied mode, the supply fan will cycle on to maintain an 85 degree F maximum space temperature in the cooling season and a 60 degree F minimum space temperature in heating season. The supply fan shall have a minimum on-time of 1 minute and a minimum off-time of 15 minutes to avoid cycling the unit.</li> <li>If the mixed air temperature drops below 40 degree F on any 1 foot segment while the unit is running, the low temperature switch will shut down the unit supply fan, close the outdoor &amp; relief dampers and open the return dampers. The low temperature switch shall be manual reset. A set of auxiliary contacts on the low temperature switch will input to the controller, which will generate an alarm and a maintenance message to check the system. If the low temperature switch is activated, the hot &amp; chilled water valves shall open to 100% flow through the coil until the switch is reset.</li> <li>The following software limits shall be applied to the respective sensors and generate an alarm if exceeded:                      Return Air Temperature RAT &lt;50 deg F or RAT &gt;58 deg F                      Mixed Air Temperature MAT &lt;45 deg F or MAT &gt;50 deg F                      Discharge Air Temperature DAT &lt;45 deg F or DAT &gt;50 deg F                      Supply Duct Static Pressure DSP &gt; 2.00" W.G.</li> <li>A duct static pressure high limit shall be installed in the unit discharge. If the high unit senses pressures above 3" W.G. The unit fan shall be shut down via a hardwired connection. Another set of contacts shall input to the EDC which will generate an alarm and a maintenance message for the operator. The high limit shall be a manual reset type device.</li> </ol> <p><b>B. SINGLE ZONE VARIABLE AIR VOLUME AIR HANDLING UNIT W/ PREHEAT (TYPICAL FOR THE NEW GYMNASIUM UNIT, AHU-3)</b></p> <ol style="list-style-type: none"> <li>The supply fan variable frequency drive (VFD) will be started and stopped by an occupied/unoccupied time schedule set up by the Facilities personnel. The unit status shall be obtained via the serial interface between the drive and the FMS.</li> <li>When the controller puts the system into the occupied mode, outdoor air damper will open to allow minimum outdoor air into the system. An air flow station in the outdoor air intake to the unit will indicate the CFM of outdoor air that is introduced into the system. Minimum outdoor air will be shown on the schedule.</li> <li>When the outdoor air temperature is below the economizer setpoint of 57 degrees, the outdoor air damper and the return air damper will be modulated in sequence as required to maintain the required discharge air temperature. The return air damper will go partly closed as the outdoor damper opens. A mixed air low limit will override the discharge control to keep the mixed air from dropping below 45 degrees F.</li> <li>The discharge air temperature will be reset according to the space temperature as follows:</li> </ol> <table border="1"> <thead> <tr> <th>SPACE TEMPERATURE</th> <th>DISCHARGE TEMPERATURE</th> </tr> </thead> <tbody> <tr> <td>2 degrees above setpoint</td> <td>55 degrees F</td> </tr> <tr> <td>At setpoint</td> <td>62 degrees F</td> </tr> <tr> <td>2 degrees below setpoint</td> <td>70 degrees F</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>The 2-way preheat water valve shall be modulated as required to maintain the required discharge temperature as reset by space temperature.</li> <li>The 2-way chilled water valve will modulate in sequence as necessary to maintain the required discharge temperature. When the supply fan is off, the chilled water valve will be closed to the coil, and the preheat valve will remain under control. The valves will both go open if a low temperature condition exists as described in paragraph 9 below.</li> <li>During the cooling mode, the supply fan VFD will be modulated as required to maintain the space temperature setpoint. As the discharge air temperature is reset as shown above, if the space requires cooling, the supply fan VFD will be ramped up to maintain the cooling setpoint. Upon initial system start-up, the VFD will be ramped up to setpoint. When the supply fan is off, the VFD will go to OFF position. Command signals shall be sent via the serial interface or via a hardwired 4-20mA signal. When cooling is not required, the VFD will be ramped down to maintain the space setpoint.</li> <li>When the space requires heating, the supply fan VFD will go to a constant speed, and the system will modulate the hot water valve as required to maintain the space setpoint. The heating CFM will be approximately 50% of the design cooling CFM.</li> <li>The relief air fan will be started and the VFD will be modulated to maintain a 0.05"WC positive static in the space according to the space static pressure sensor.</li> <li>During the unoccupied mode, the supply fan will cycle on to maintain an 85 degree F maximum space temperature in the cooling season and a 60 degree F minimum space temperature in heating season. The supply fan shall have a minimum on-time of 1 minute and a minimum off-time of 15 minutes to avoid cycling the unit.</li> <li>If the mixed air temperature drops below 40 degree F on any 1 foot segment while the unit is running, the low temperature switch will shut down the unit supply fan, close the outdoor &amp; relief dampers and open the return dampers. The low temperature switch shall be manual reset. A set of auxiliary contacts on the low temperature switch will input to the controller, which will generate an alarm and a maintenance message to check the system. If the low temperature switch is activated, the hot &amp; chilled water valves shall open to 100% flow through the coil until the switch is reset.</li> <li>The following software limits shall be applied to the respective sensors and generate an alarm if exceeded:                      Return Air Temperature RAT &lt;50 deg F or RAT &gt;58 deg F                      Mixed Air Temperature MAT &lt;45 deg F or MAT &gt;50 deg F                      Discharge Air Temperature DAT &lt;45 deg F or DAT &gt;50 deg F                      Supply Duct Static Pressure DSP &gt; 2.00" W.G.</li> </ol> <p><b>C. HOT WATER SYSTEM</b></p> <ol style="list-style-type: none"> <li>The hot water system consists of three boilers and 4 hot water pumps (2 primary pumps and 2 secondary pumps).</li> <li>When the outdoor air drops below 55 degrees F, the hot water system will be allowed to operate.</li> <li>The lead primary hot water pump and lead secondary hot water pump will be started.</li> <li>If the lead pump does not prime flow within 30 seconds, the lead pump shall be stopped and the log pump shall be started, and an alarm shall be generated. The operator shall be able to designate lead and log pumps.</li> <li>The variable frequency drives serving the secondary pumps will be modulated as required to maintain the differential pressure at the worst-case coil pressure location as shown on the project plans. The FMS system shall analyze the differential pressure signals, and select the lowest signal to control from. As the worst-case pressure drops, the VFD will be ramped up as required to maintain the minimum setpoint. On a drop in pressure, the opposite will occur.</li> <li>The boilers shall be staged on as required to maintain a hot water supply temperature as reset by the outdoor air temperature according to the following schedule:</li> </ol> <table border="1"> <thead> <tr> <th>DAT</th> <th>HWS</th> </tr> </thead> <tbody> <tr> <td>0 degrees F</td> <td>180 degrees F</td> </tr> <tr> <td>70 degrees F</td> <td>125 degrees F</td> </tr> </tbody> </table> <ol style="list-style-type: none"> <li>The boilers shall be controlled so that the first boiler energized will be the first boiler de-energized (first-in, first-out). The boiler sequence will be rotated to provide an even runtime for all the boilers. The system software shall automatically rotate the lead and log boilers as required to maintain this runtime. The system software shall also log and archive the system runtime of each boiler, as well as the number of starts and stops. This information will be available to the operators on demand.</li> <li>An alarm status signal will be received from each boiler. If the boiler controls indicate an alarm via the set of contacts, an alarm will be generated on the FMS.</li> <li>The FMS shall monitor/control the other points as shown on the points list.</li> </ol> <p><b>C. CHILLED WATER SYSTEM</b></p> <ol style="list-style-type: none"> <li>The chilled water system consists of one chiller and 4 hot water pumps (2 primary pumps and 2 secondary pumps).</li> <li>When the outdoor air rises above 60 degrees F (±0.5), the chilled water system will be allowed to operate.</li> <li>The lead primary chilled water pump and lead secondary chilled water pump will be started.</li> <li>If the lead pump does not prime flow within 30 seconds, the lead pump shall be stopped and the log pump shall be started, and an alarm shall be generated. The operator shall be able to designate lead and log pumps.</li> <li>The variable frequency drives serving the secondary pumps will be modulated as required to maintain the differential pressure at the worst-case coil pressure location as shown on the project plans. The FMS system shall analyze the differential pressure signals, and select the lowest signal to control from. As the worst-case pressure drops, the VFD will be ramped up as required to maintain the minimum setpoint. On a drop in pressure, the opposite will occur.</li> <li>When the outdoor air drops below 57 degrees, the chilled water system shall be disabled, and the building operators will be notified via the workstation and the piping interface that the chilled water pumps should continue to run for a period of 5 minutes. After the 5 minute delay, the operators will be expected to shut down the pumps.</li> <li>The FMS shall monitor/control the other points as shown on the points list.</li> </ol>	SPACE TEMPERATURE	DISCHARGE TEMPERATURE	2 degrees above setpoint	55 degrees F	At setpoint	62 degrees F	2 degrees below setpoint	70 degrees F	DAT	HWS	0 degrees F	180 degrees F	70 degrees F	125 degrees F	<p><b>D. HOT/CHILLED WATER SYSTEM</b></p> <ol style="list-style-type: none"> <li>The lead chilled/hot water pump will be started and stopped according to the time-of-day schedule set up by the maintenance personnel. If the lead pump does not prime flow within 30 seconds, the lead pump shall be stopped and the log pump shall be started, and an alarm shall be generated. The operator shall be able to designate lead and log pumps.</li> <li>When the outdoor air drops below 58 degrees(±0.5), the hot/cold chiller/boiler diater valves shall be positioned to allow flow from the hot water system out to the 2-pipe unit ventilator piping.</li> <li>On the transition from heating to cooling, the hot/chilled pump shall operate continuously, and the diater valves shall not be allowed to switch until the hot/chilled water return loop temperature drops below 60 degrees.</li> <li>When the outdoor air rises above 62 degrees(±0.5), the hot/cold chiller/boiler diater valves shall be positioned to allow flow from the chilled water system out to the 2-pipe unit ventilator piping.</li> </ol> <p><b>E. ROOFTOP UNIT #1 SERVES EXISTING GYMNASIUM</b></p> <ol style="list-style-type: none"> <li>The unit shall be enabled via the FMS according to its time-of-day schedule set up by the maintenance personnel. Once enabled, the RTU will operate on its own factory-supplied EDC controls as required to maintain the desired sequence. The unit will be disabled via the FMS at the desired shutdown time.</li> </ol> <p><b>E. ROOFTOP UNIT #2 SERVES EXISTING WRESTLING AREA</b></p> <ol style="list-style-type: none"> <li>The unit shall be enabled via the FMS according to its time-of-day schedule set up by the maintenance personnel. Once enabled, the RTU will operate on its own factory-supplied EDC controls as required to maintain the desired sequence. The unit will be disabled via the FMS at the desired shutdown time.</li> </ol> <p><b>F. FOUR PIPE HEATING/COOLING FAN COIL (TYPICAL FOR BLUNDER COIL UNITS)</b></p> <ol style="list-style-type: none"> <li><b>COINTEGRAL:</b> <ol style="list-style-type: none"> <li>Control electronically with dedicated stand-alone HVAC Node (AN).</li> <li>An electronic room temperature sensor, through the HVAC AN, shall control the staged heating and chilled water valves, complete with occupied and unoccupied modes.</li> </ol> </li> <li><b>SYSTEM OFF:</b> <ol style="list-style-type: none"> <li>The supply fan shall be off.</li> </ol> </li> <li><b>SYSTEM RUN:</b> <ol style="list-style-type: none"> <li>Unoccupied Mode:                             <ol style="list-style-type: none"> <li>The heating and cooling valves shall remain closed and the unit fan shall remain off. If the space temperature drops below unoccupied heating setpoint, the unit fan shall start and the hot water valve shall modulate to restore setpoint.</li> <li>A pushbutton on the space temperature sensor shall allow temporary occupied mode to be entered for after-hours use. During temporary occupied mode, the fan coil shall function according to the occupied mode of operation. When the temporary occupancy timer expires, the fan coil shall re-enter unoccupied mode, subject to time-of-day scheduling.</li> </ol> </li> <li>Occupied Mode:                             <ol style="list-style-type: none"> <li>The fan shall operate continuously during the occupied control mode according to the occupancy schedule in the supervisory controller.</li> <li>The chilled water valve and hot water valve shall be modulated as required to maintain room temperature at heating and cooling setpoints set points respectively.</li> </ol> </li> </ol> </li> <li><b>SYSTEM STOP:</b> <ol style="list-style-type: none"> <li>When the fan coil unit is instructed to shut down, its supply fan shall stop.</li> </ol> </li> <li><b>SAFETIES AND ALARMS:</b> <ol style="list-style-type: none"> <li>Annunciate all normal alarm whenever space temperature exceeds limits.</li> <li>Annunciate all normal alarm whenever supply fan status does not equal command.</li> </ol> </li> <li><b>FAILURE MODES:</b> <ol style="list-style-type: none"> <li>Fan Failure: If the supply fan fails to operate, alarm shall be annunciated. Control valves shall be indexed to their "System Off" condition.</li> <li>Sensor Failure: Upon the failure of an analog sensor, associated control valves shall remain at their last position and alarm shall be annunciated.</li> <li>Power Failure:                             <ol style="list-style-type: none"> <li>For: Upon restoration of power, the supply fan shall start after an adjustable delay to provide a staggered start of all building loads.</li> </ol> </li> </ol> </li> </ol> <p><b>G. VAV BOX WITH IIR RESET</b></p> <ol style="list-style-type: none"> <li><b>Occupied Mode:</b> <ol style="list-style-type: none"> <li>A space sensor shall transmit room temperature to the box controller, which shall vary the primary airflow to maintain space temperature.</li> <li>A rise in space temperature above setpoint shall modulate primary airflow to maximum CFM setpoint into the space. A drop in space temperature below setpoint shall modulate the primary airflow to minimum CFM setpoint.</li> <li>A further drop in space temperature shall modulate the box reheat control valve open to heat the space.</li> </ol> </li> <li><b>Unoccupied System Mode:</b> <ol style="list-style-type: none"> <li>When the system is indexed to unoccupied mode, the air handling unit shall stop, the box damper shall close and the reheat valves (and radiant valve, if equipped) shall close.</li> <li>If the space temperature falls below the night setback point, the VAV box damper shall open, and the heating valve shall open to allow the air handling unit to heat the space to unoccupied heating setpoint.</li> <li>If the space temperature rises above the night cycle setpoint, the air handling unit shall start and the box controller shall vary the primary airflow to cool the space to unoccupied cooling setpoint.</li> <li>A pushbutton override on the space thermostat shall allow occupants to index the system to occupied mode for after-hours use. The box controller shall function per occupied mode of operation until the temporary occupancy timer expires, at which time the box controller shall index to unoccupied mode, subject to time of day scheduling.</li> </ol> </li> <li><b>Morning Warm-Up Mode:</b> <ol style="list-style-type: none"> <li>When the system is indexed to the morning warm-up, the system shall set the space sensor to its occupied heating temperature. The box controller shall index the primary airflow to 100%, the heating valve shall open and allow primary air to heat the space when the respective air handling unit is cycled to morning warm-up. The damper and heating valve shall close when the space is satisfied and the air handling unit is still in warm-up mode.</li> <li>When the air handling unit returns to occupied operation, the box shall index to occupied mode of operation.</li> </ol> </li> </ol> <p><b>H. EXHAUST FANS</b></p> <ol style="list-style-type: none"> <li>Exhaust fan #4 shall be operated on a time-of-day schedule as directed by the maintenance personnel. The fan shall run continuously during the occupied mode and be off during the unoccupied mode.</li> <li>Exhaust fan #5 shall be operated on the same time-of-day schedule as AHU-2. The fan shall run continuously during the occupied mode and be off during the unoccupied mode.</li> <li>Exhaust fan #7 shall be started when the mechanics room temperature rises above setpoint to provide ventilation. If the exhaust fan cannot maintain the setpoint, the lowest coil unit in the room shall be cycled on to maintain the setpoint.</li> </ol> <p><b>I. POWER DISTRIBUTION SYSTEM</b></p> <ol style="list-style-type: none"> <li>The power distribution system points shown on the points list will be monitored into the FMS system for monitoring and alarming purposes.</li> </ol> <p><b>J. LIGHTING CONTROL SYSTEM</b></p> <ol style="list-style-type: none"> <li>Low voltage lighting control panels shall be provided by the FMS contractor as shown on the electrical lighting plans to control the Site Lighting for the building.</li> <li>The FMS system shall provide dedicated outputs to the lighting control panels to schedule the site lighting in zones as required by the owner. The FMS system shall provide the time-of-day schedule to the lighting system, and will be customizable by the owner. At the designated time, the lighting control zones will be enabled and will run continuously until the FMS gives the respective zone a disable signal.</li> <li>The lighting control system shall also have direct inputs from override the respective switches located on the face of the relay control panel to override the respective zone for a limited period.</li> <li>An analog photoresistor input to the FMS shall be used in conjunction with the time-of-day schedule to provide site lighting at all times required.</li> </ol>
SPACE TEMPERATURE	DISCHARGE TEMPERATURE														
2 degrees above setpoint	55 degrees F														
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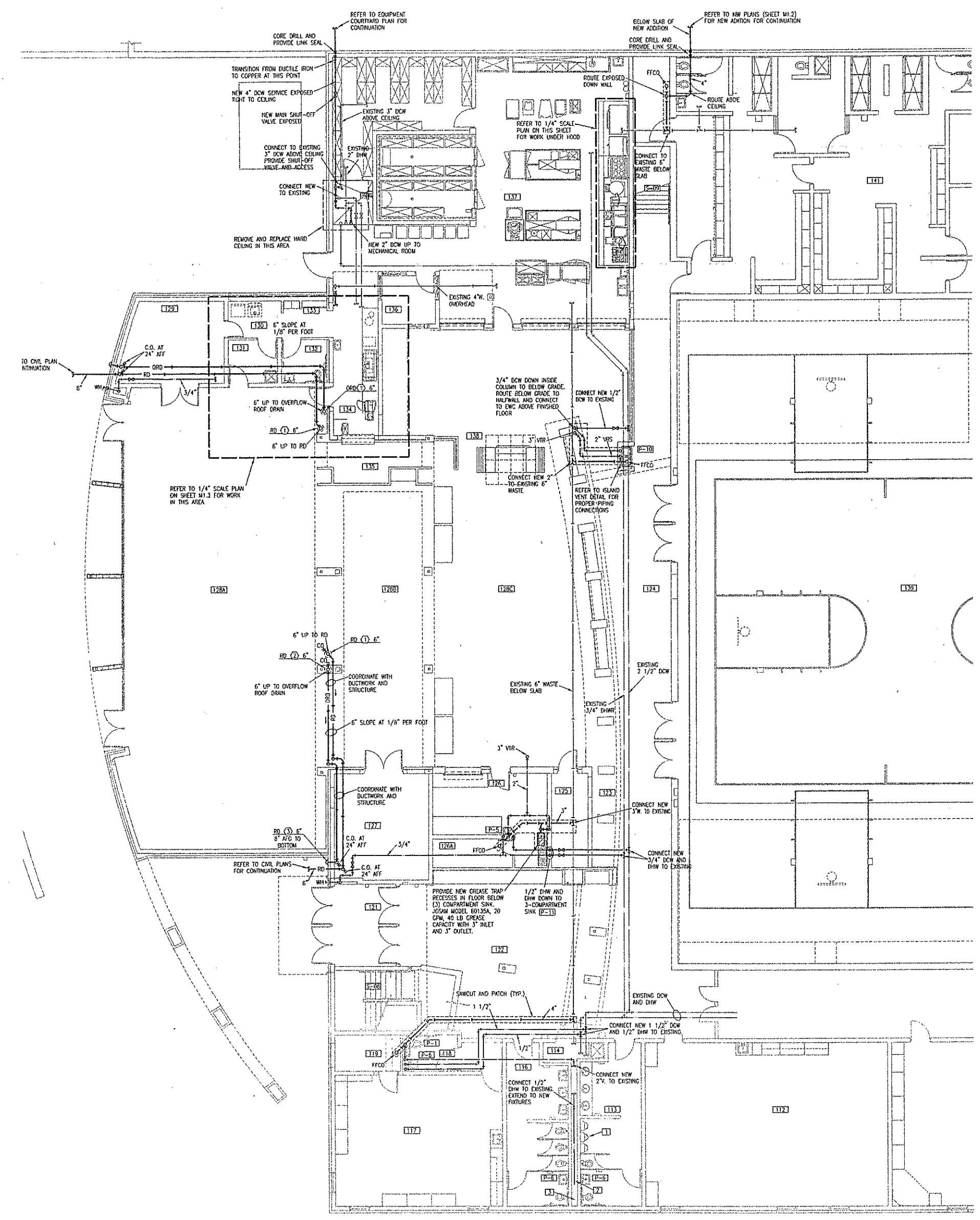
SHEET  
**M1.1**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST  
 PLUMBING



**ISLAND VENT DETAIL**  
 NO SCALE

- NOTES:**
1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS. SEE CODE PLAN.
  2. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  3. COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO VALVES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
  4. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
  5. ALL BRANCH PIPING RUNS TO SINGLE PLUMBING FIXTURES SHALL BE 1/2" UNLESS NOTED OTHERWISE.
  6. ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AS REQUIRED.
  7. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS. WHERE VALVES ARE LOCATED ABOVE HARD CEILING, AN 18"x18" MINIMUM ACCESS PANEL SHALL BE PROVIDED BY G/C, REFER TO ARCHITECTURAL.
  8. ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
  9. NOT ALL OFFSETS AND DROPS ARE SHOWN ON PLANS. COORDINATE WITH ALL OTHER TRADES, EXISTING TRADES, STRUCTURE, AND INSTALL AS REQUIRED.
  10. ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING (TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS).
  11. REFER TO FOOD SERVICE PLANS FOR COORDINATION OF PIPING AND EQUIPMENT CONNECTIONS IN KITCHEN AREA.
  12. SAWCUT AND PATCH FLOOR TO MATCH EXISTING AS REQUIRED TO INSTALL PIPING BELOW SLAB.
  13. EXISTING UTILITIES BELOW SLAB ARE AS PER ORIGINAL PLANS. VERIFY ACTUAL LOCATIONS PRIOR TO WORK.

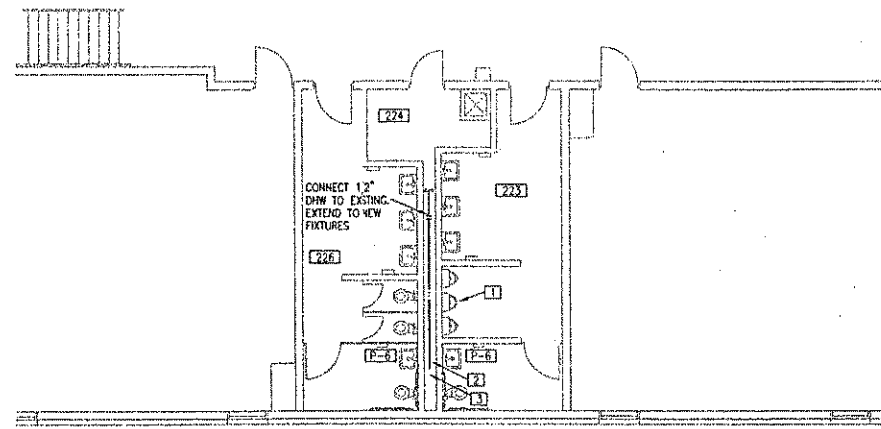
- LEGEND:**
1. EXISTING URINAL TO BE INSTALLED AT ADA REQUIRED LEVEL. CONTRACTOR SHALL RECONNECT 2" WASTE, 2" VENT AND 1" DOW AFTER BRINGING EXISTING URINAL TO REQUIRED ADA HEIGHT. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.
  2. CONTRACTOR SHALL INSTALL (2) NEW LAVATORIES WHERE (3) EXISTING FLOOR MOUNTED WATER CLOSETS WERE REMOVED. EXTEND 1/2" DHW FROM EXISTING TO NEW LAVATORIES. CONNECT NEW 1/2" DOW TO EACH NEW LAVATORY FROM EXISTING DOW PIPING. CONNECT NEW 2" WASTE BELOW SLAB TO EXISTING 4" WASTE. CONNECT NEW 2" VENT TO EXISTING 2" VENT INSIDE CHASE. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.
  3. REMOVE EXISTING AND PROVIDE NEW SLOAN ROYAL III W/C. FLUSH VALVE AT ADA HEIGHT WITH HANDLE FACING WIDE SIDE OF STALL. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.



**FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8"=1'-0"



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**PARTIAL SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
1/8"=1'-0" PLUMBING



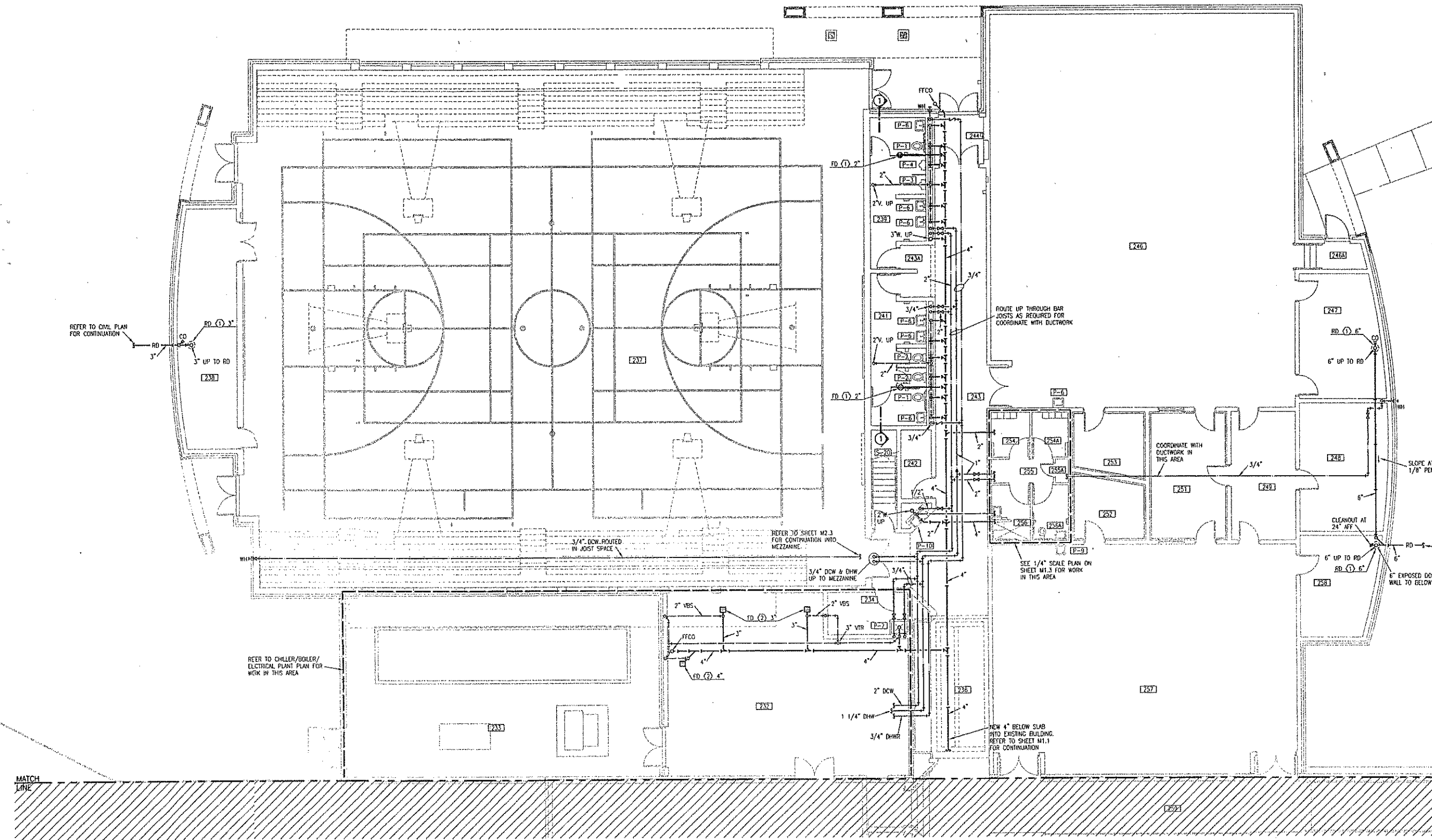
**SECTION 1:1**  
1/4"=1'-0"

- NOTES:**
1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS. SEE CODE PLAN.
  2. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN REC CLEARANCE REQUIREMENT.
  3. COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO VALVES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
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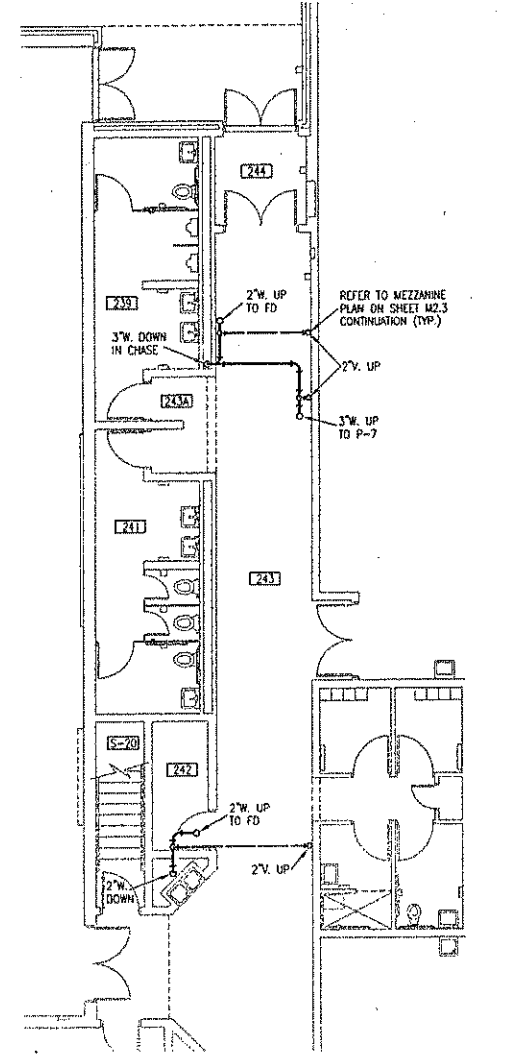
- LEGEND:**
- EXISTING URINAL TO BE INSTALLED AT ADA REQUIRED LEVEL. CONTRACTOR SHALL RECONNECT 2" WASTE, 2" VENT AND 1" DWV AFTER BRINGING EXISTING URINAL TO REQUIRED ADA HEIGHT. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.
  - CONTRACTOR SHALL INSTALL (2) NEW LAVATORIES WHERE (2) EXISTING FLOOR MOUNTED WATER CLOSETS WERE REMOVED. EXTEND 1/2" DWV FROM EXISTING TO NEW LAVATORIES. CONNECT NEW 1/2" DWV TO EACH NEW LAVATORY FROM EXISTING DWV PIPING. CONNECT NEW 2" WASTE BELOW SLAB TO EXISTING 4" WASTE. CONNECT NEW 2" VENT TO EXISTING 2" VENT INSIDE CHASE. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.
  - REMOVE EXISTING AND PROVIDE NEW SLOAN ROYAL III W.C. FLUSH VALVE AT ADA HEIGHT WITH HANDLE FACING WIDE SIDE OF STALL. REMOVE AND REPLACE BLOCK WALL AS REQUIRED.

PROJECT NO 1928.03  
DATE OCT 2008  
DRAWN BY CAD  
REVISION

**The Ken Ebert Design Group**  
Architects and Planning Consultants  
115 Westport Drive Suite F  
Manhattan, Kansas 66502  
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**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
1/8"=1'-0" PLUMBING



**PARTIAL SECOND FLOOR PLAN**  
1/8"=1'-0" DWV ABOVE CEILING



**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**M1.2**  
SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST - PLUMBING

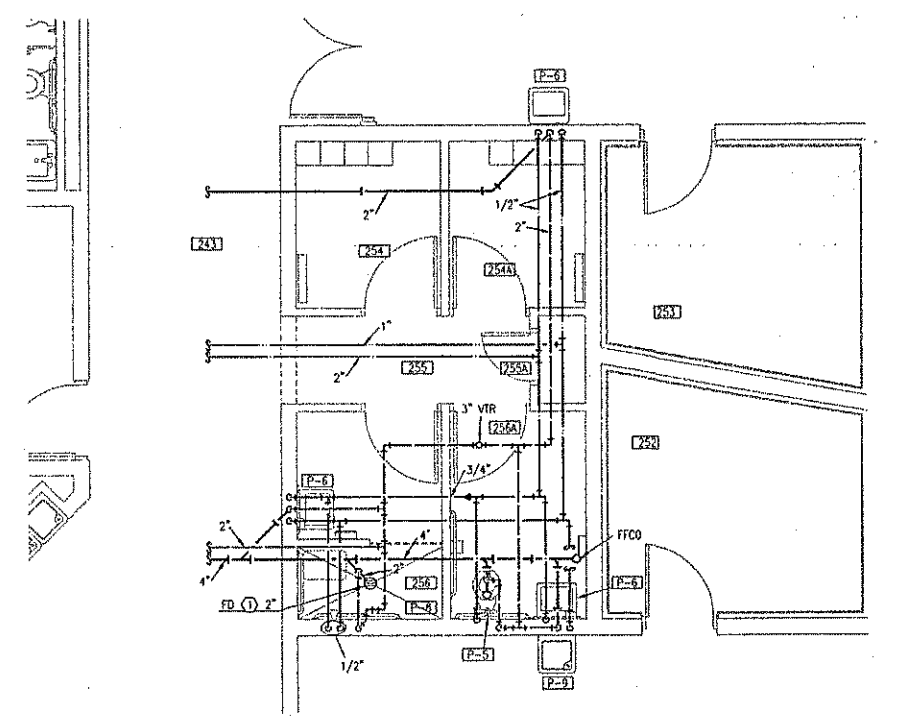
**L & A**  
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3639 5th Summerfield Drive, Suite A  
Topeka, KS 66614-9972  
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- NOTES:**
1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS. SEE CODE PLAN.
  2. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  3. COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO VALVES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
  4. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
  5. ALL BRANCH PIPING RUNS TO SINGLE PLUMBING FIXTURES SHALL BE 1/2" UNLESS NOTED OTHERWISE.
  6. ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AS REQUIRED.
  7. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS. WHERE VALVES ARE LOCATED ABOVE HARD CEILING, AN 18"x18" MINIMUM ACCESS PANEL SHALL BE PROVIDED BY G/C, REFER TO ARCHITECTURAL.
  8. ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
  9. NOT ALL OFFSETS AND DROPS ARE SHOWN ON PLANS. COORDINATE WITH ALL OTHER TRADES, EXISTING TRADES, STRUCTURE, AND INSTALL AS REQUIRED.
  10. ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING (TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS).
  11. REFER TO FOOD SERVICE PLANS FOR COORDINATION OF PIPING AND EQUIPMENT CONNECTIONS IN KITCHEN AREA.
  12. SAWCUT AND PATCH FLOOR TO MATCH EXISTING AS REQUIRED TO INSTALL PIPING BELOW SLAB.
  13. EXISTING UTILITIES BELOW SLAB ARE AS PER ORIGINAL PLANS. VERIFY ACTUAL LOCATIONS PRIOR TO WORK.

**PIPE SIZE FOR INDIVIDUAL PLUMBING FIXTURES:**

MARK	WASTE	VENT	DCW	DHW
P-1	4"	2"	1 1/2"	--
P-2	4"	2"	1 1/2"	--
P-3	2"	2"	1"	--
P-4	2"	2"	1"	--
P-5	4"	2"	1 1/2"	--
P-6	2"	2"	1/2"	1/2"
P-7	3"	2"	3/4"	3/4"
P-8	2"	2"	1/2"	1/2"
P-9	2"	2"	1/2"	--
P-10	2"	2"	1/2"	--
P-11	2"	2"	1/2"	1/2"
P-12	2"	2"	1/2"	1/2"

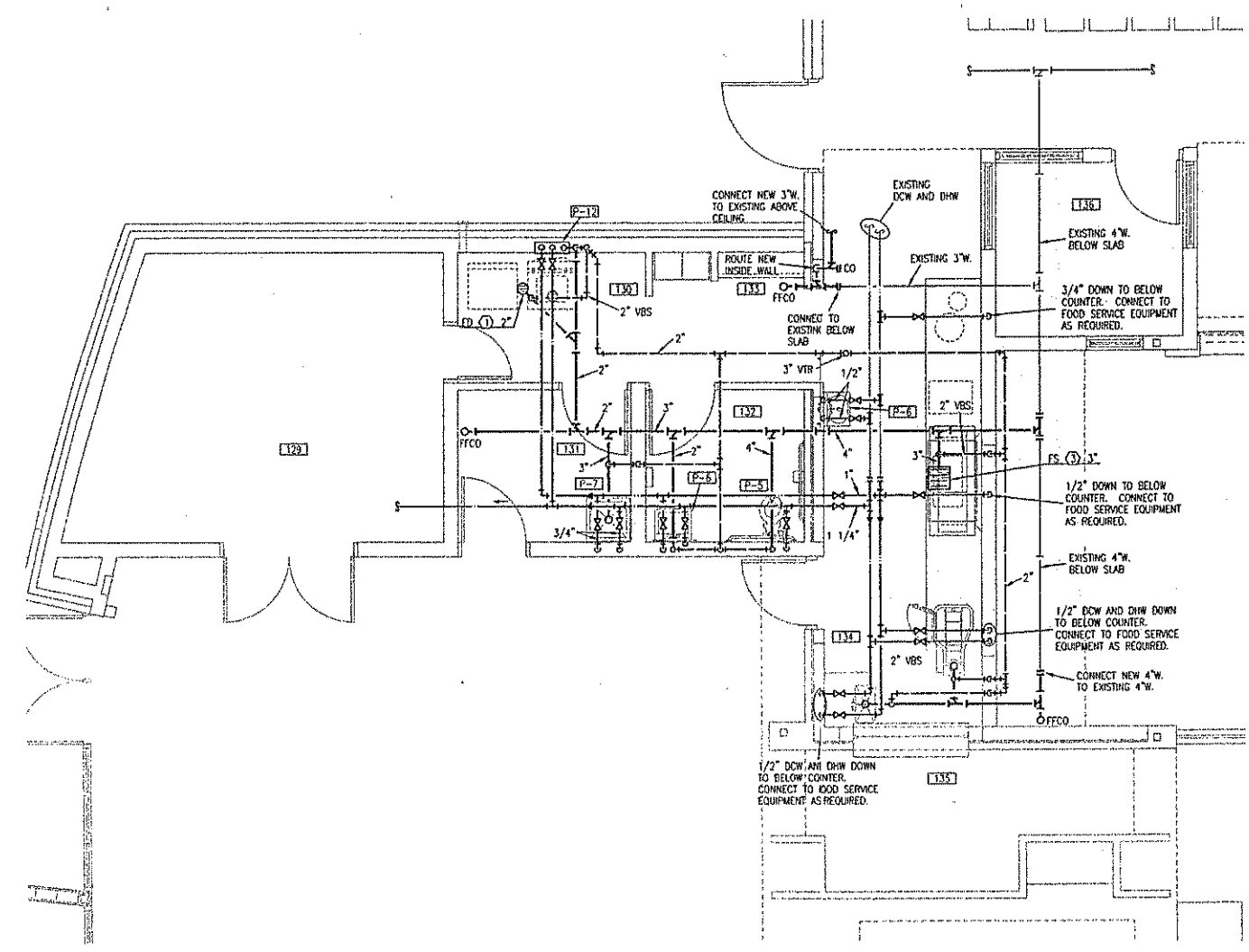


**PARTIAL SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/4"=1'-0" PLUMBING NORTH

**PLUMBING FIXTURE SCHEDULE**

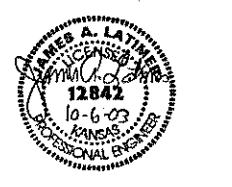
MARK	MANUFACTURER/MODEL	DESCRIPTION	MANUFACTURER/MODEL	DESCRIPTION	REMARKS
P-1	AMERICAN STANDARD 2257-103	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SPINON JET FLUSHING ACTION. MOUNT TOP OF FIN AT 17" AFF.	SLOW B111 G2 OPTIMA PLUS	EXPOSED, BATTERY OPERATED, ADA COMPLIANT, INFRARED SENSOR OPERATED WATER CLOSET FLUSH VALVE, CHROME PLATED, 1" I.P.S. SCREWDRIVER BAN-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TALKPIECE, WOODRAM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON. PROVIDE WALL AND SPUD FLANGES. MOUNT HANDLE AT 26" AFF.	6
P-2	AMERICAN STANDARD 2257-103	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SPINON JET FLUSHING ACTION. MOUNT TOP OF FIN AT 17" AFF.	SLOW B111 G2 OPTIMA PLUS	EXPOSED, BATTERY OPERATED, ADA COMPLIANT, INFRARED SENSOR OPERATED WATER CLOSET FLUSH VALVE, CHROME PLATED, 1" I.P.S. SCREWDRIVER BAN-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TALKPIECE, WOODRAM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON. PROVIDE WALL AND SPUD FLANGES. MOUNT HANDLE AT 26" AFF.	6
P-3	AMERICAN STANDARD 6581017	ADA COMPLIANT URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SPINON JET FLUSHING ACTION. MOUNT FIN AT 17" AFF.	SLOW B111 G2 OPTIMA PLUS	EXPOSED, BATTERY OPERATED, ADA COMPLIANT, INFRARED SENSOR OPERATED URINAL FLUSH VALVE, CHROME PLATED, 3/4" I.P.S. SCREWDRIVER BAN-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TALKPIECE, WOODRAM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, 1.0 GALLON. PROVIDE WALL AND SPUD FLANGES. MAX HANDLE HEIGHT IS 52" AFF.	6
P-4	AMERICAN STANDARD 6561-317	URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SPINON JET FLUSHING ACTION. MOUNT FIN AT 24" AFF.	SLOW B111 G2 OPTIMA PLUS	EXPOSED, BATTERY OPERATED, ADA COMPLIANT, INFRARED SENSOR OPERATED URINAL FLUSH VALVE, CHROME PLATED, 3/4" I.P.S. SCREWDRIVER BAN-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TALKPIECE, WOODRAM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD, 1.0 GALLON. PROVIDE WALL AND SPUD FLANGES. MAX HANDLE HEIGHT IS 52" AFF.	6
P-5	AMERICAN STANDARD 2305-100	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SPINON JET FLUSHING ACTION. MOUNT TOP OF FIN AT 16 1/8" AFF.	SLOW B111 G2 OPTIMA PLUS	EXPOSED, BATTERY OPERATED, ADA COMPLIANT, INFRARED SENSOR OPERATED WATER CLOSET FLUSH VALVE, CHROME PLATED, 1" I.P.S. SCREWDRIVER BAN-CHEK ANGLE STOP WITH PROTECTIVE CAP, ADJUSTABLE TALKPIECE, WOODRAM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD, 1.6 GALLON. PROVIDE WALL AND SPUD FLANGES. MOUNT HANDLE AT 26" AFF.	6
P-6	AMERICAN STANDARD 6355-012	ADA COMPLIANT LAVATORY: WHITE VITREOUS CHINA, WALL HUNG LAVATORY 20 1/4" WIDE 4" DEEP FOR USE WITH CONCEALED ARM HANGER. FAUCET HOLES ON 4" CENTERS. PROVIDE CONCEALED ARM CARRIER. MOUNT TOP OF FIN AT 34" AFF.	AMERICAN STANDARD 2305-403	4" CENTERSET FAUCET WITH 4" METAL LEVER HANDLE, 1/2" CONNECTIONS AND CRD BRAN WITHOUT POP-UP HOLE. VANDAL RESISTANT 2.0 GPM SPRAY. POLISHED CHROME FINISH.	1,2,3,4,5
P-7	FBI 103-2424	WAINSCOT SINK: 24 1/2" X 17" ONE PIECE MOLDED STONE W/OP BROWN STAINLESS STEEL INTEGRAL DRAIN BODY WITH GALVALD CONNECTION FOR 3" PIPE. COLOR SHALL BE WHITE AND UNIT SHALL BE ONE HORIZONTAL PIECE. PROVIDE WITH STAINLESS STEEL WALL GUARDS.	FBI 830-AA	CHROME PLATED BRASS WALL MOUNTED FAUCET WITH WOODRAM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAL HOOR, 3/4" HOSE THREAD SPOUT, BAREXED HANDLES. PROVIDE HOSE AND BRACKET, HOT HANGER AND HOSE BACK.	6
P-8	AMERICAN STANDARD 14955-500-002	ADA COMPLIANT SHOWER VALVE: PRESSURE BALANCE SHOWER VALVE WITH VOLUME CONTROL, CEILING DISC VALVE CONTROLLED WITH AN ADJUSTABLE HOT LIMIT SAFETY STOP, LOW LEAD FORGED BRASS BODY, ALL METAL LEVER HANDLE AND WALL ESCUTCHEON.	AMERICAN STANDARD 1650-232 1650-500 8888-035 8888-037 1650-400	3" SLIDE BAR, PERSONAL HAND SHOWER, HOT/COLD SHOWERHEAD, WALL SUPPLY, AND 1/2" NPT IN-LINE WOODRAM BREAKER.	6
P-9	HALSEY-TAYLOR 1402750	ADA COMPLIANT ELECTRIC WATER COOLER: BARBER FREE WATER COOLER PROVIDING 6 GPM OF 50 DEGREE WATER AT 60 DEGREE AMBIENT. FRONT AND SIDE PUSHBARS, ADA COMPLIANT, LEAD FREE. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" AFF.			6
P-10	HALSEY-TAYLOR 1402750	ADA COMPLIANT DUAL HEAT ELECTRIC WATER COOLER: BARBER FREE WATER COOLER PROVIDING 6 GPM OF 50 DEGREE WATER AT 90 DEGREE AMBIENT. FRONT AND SIDE PUSHBARS, ADA COMPLIANT, LEAD FREE. MOUNT WITH MIN. 27" KNEE CLEARANCE AND SPOUT AT NO MORE THAN 36" AFF.			6
P-11	ADVANCE 14800 WT-25-21	3-COMPARTMENT SINK: #16 GAUGE, TYPE 304 STAINLESS STEEL, 60 1/2" X 24 1/2" BOWL DEPTH, 4" HINDERSIDE, 3" MORNING HEIGHT, FOUR ADJUSTABLE SUPPORT LEGS, LEFT AND RIGHT DRAIN BOWLS.	ADVANCE 14800 (1) REQUIRED	SPLASH-MOUNTED SINK FAUCET, 12" SWIVEL SPOUT, CHROME PLATED BRASS CONSTRUCTION AND WOODRIDGE CERAMIC DISC VALVE CONSTRUCTION. PROVIDE (3) 1 1/2" O.P.S. BASKET DRAINS, 8" O.C. CONNECTIONS.	3
P-12	CITY GRAY 13202025	WINDING MACHINE SERVICE BOX: UNIT WITH HV/HVW STOPS, 2 DRAIN AND 16 GA. STEEL ENCLOSURE WITH EPOXY FINISH.			6

- REMARKS:**
- 1 - PROVIDE CHROME PLATED BRASS TALKPIECE AND GRID OPEN.
  - 2 - PROVIDE CHROME PLATED BRASS P-TOP.
  - 3 - PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
  - 4 - PROVIDE CONCEALED MIN. DUCT CARRIER WITH SQUARE TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BRACES.
  - 5 - INSULATE EXPOSED TALKPIECE, P-TOP AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
  - 6 - PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
  - 7 - PROVIDE HANDLE STOP AND FLEXIBLE RISERS.
  - 8 - PROVIDE CHROME PLATED BRASS TALKPIECE AND BASKET STRAINER.



**PARTIAL FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/4"=1'-0" PLUMBING NORTH

**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
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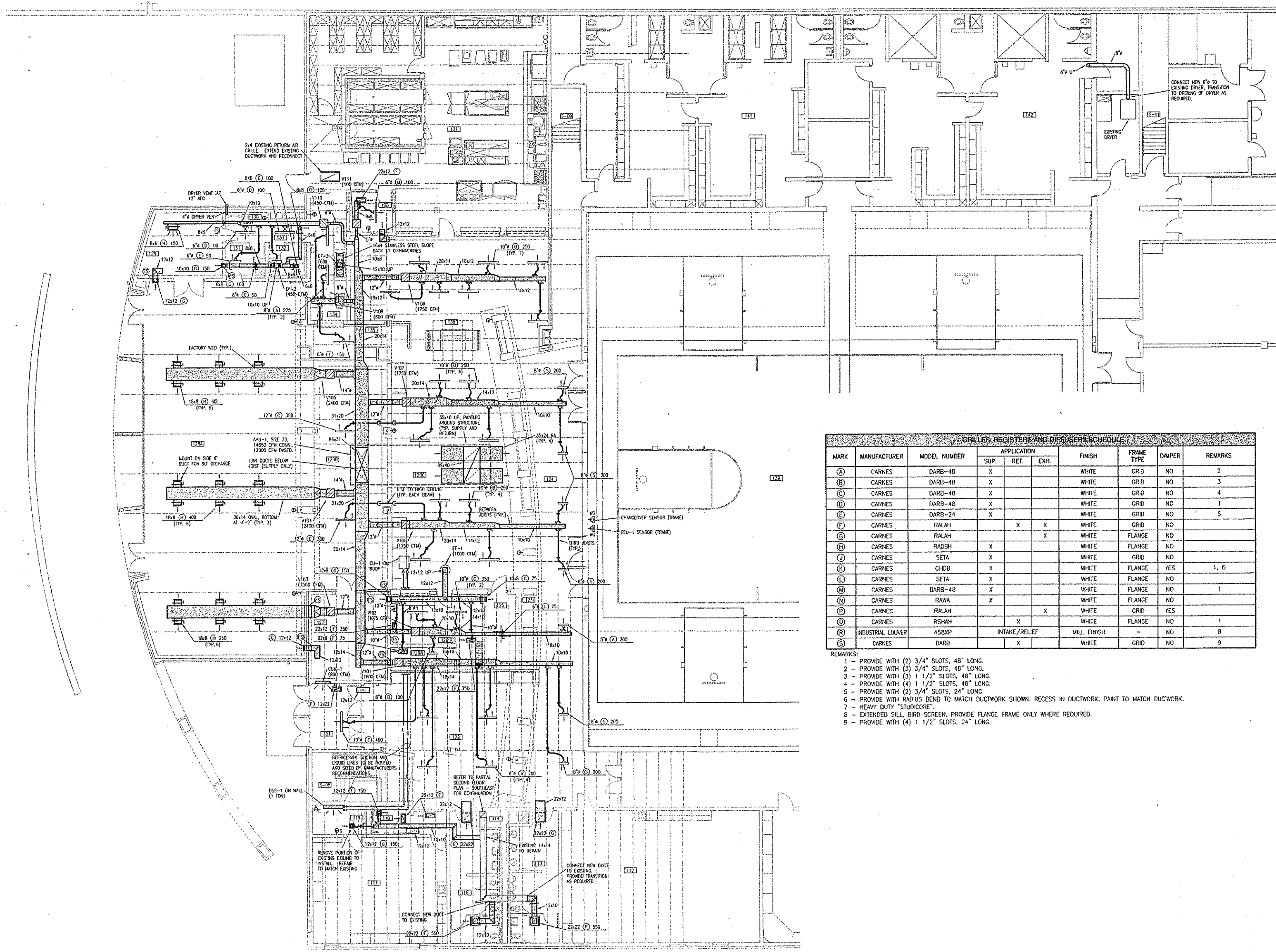


**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**M1.3**  
 ENLARGED PARTIAL FLOOR PLANS - PLUMBING

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 115 Westport Drive Suite F  
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**GRILLES, REGISTERS AND DIFFUSERS SCHEDULE**

MARK	MANUFACTURER	MODEL NUMBER	APPLICATION			FINISH	FRAME TYPE	DAMPER	REMARKS
			SUP.	RET.	EXH.				
(A)	CARNES	DARB-48	X			WHITE	GRID	NO	2
(B)	CARNES	DARB-48	X			WHITE	GRID	NO	3
(C)	CARNES	DARB-48	X			WHITE	GRID	NO	4
(D)	CARNES	DARB-48	X			WHITE	GRID	NO	1
(E)	CARNES	DARB-24	X			WHITE	GRID	NO	5
(F)	CARNES	RALAH		X	X	WHITE	GRID	NO	
(G)	CARNES	RALAH			X	WHITE	FLANGE	NO	
(H)	CARNES	RADGH	X			WHITE	FLANGE	NO	
(J)	CARNES	SETA	X			WHITE	GRID	NO	
(K)	CARNES	CHDB	X			WHITE	FLANGE	YES	1, 6
(L)	CARNES	SETA	X			WHITE	FLANGE	NO	
(M)	CARNES	DARB-48	X			WHITE	FLANGE	NO	1
(N)	CARNES	RAWA	X			WHITE	FLANGE	NO	
(P)	CARNES	RALAH			X	WHITE	GRID	YES	
(Q)	CARNES	RSHAH		X		WHITE	FLANGE	NO	1
(R)	INDUSTRIAL LOUVER	458XP			INTAKE/RELIEF	MILL FINISH	-	NO	8
(S)	CARNES	DARB		X		WHITE	GRID	NO	9

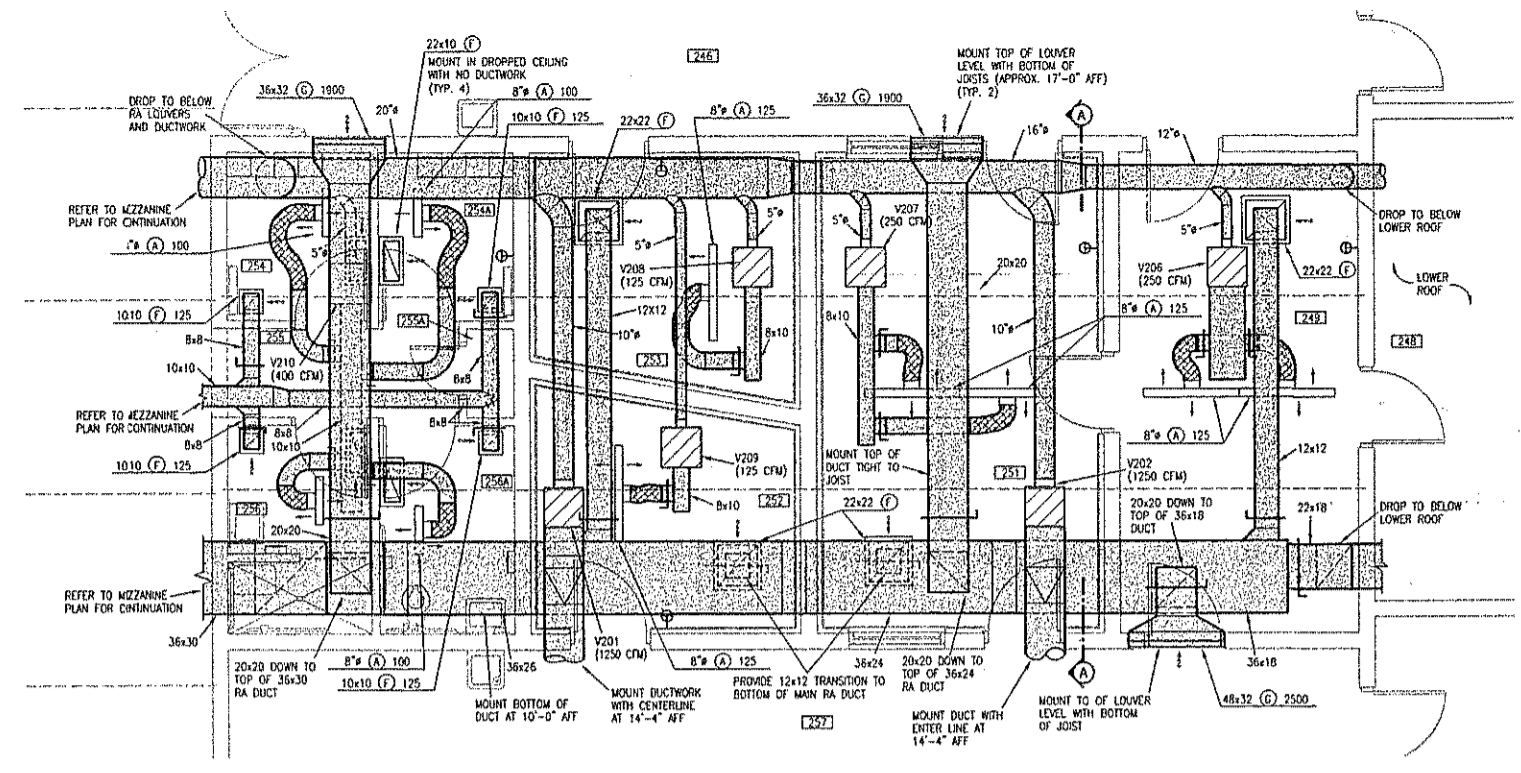
- REMARKS:
- 1 - PROVIDE WITH (2) 3/4" SLOTS, 48" LONG.
  - 2 - PROVIDE WITH (3) 3/4" SLOTS, 48" LONG.
  - 3 - PROVIDE WITH (3) 1 1/2" SLOTS, 48" LONG.
  - 4 - PROVIDE WITH (4) 1 1/2" SLOTS, 48" LONG.
  - 5 - PROVIDE WITH (2) 3/4" SLOTS, 24" LONG.
  - 6 - PROVIDE WITH RADIUS BEND TO MATCH DUCTWORK SHOWN. RECESS IN DUCTWORK. PAINT TO MATCH DUCTWORK.
  - 7 - HEAVY DUTY "STUDCORE".
  - 8 - EXTENDED SILL, BIRD SCREEN, PROVIDE FLANGE FRAME ONLY WHERE REQUIRED.
  - 9 - PROVIDE WITH (4) 1 1/2" SLOTS, 24" LONG.

- NOTES:
1. ALL LOW PRESSURE DUCT RUN OUTS SHALL BE SAME SIZE AS DIFFUSER NECK. ROUTE IN JOIST SPACE AND THROUGH JOISTS WHERE POSSIBLE.
  2. VAV, BCU AND FCU DISCHARGE DUCTS SHALL BE SAME SIZE AS OUTLET DIMENSION UNLESS NOTED OTHERWISE. VERIFY WITH MANUFACTURER.
  3. REFER TO VAV BOX SCHEDULE FOR INLET DUCT SIZE. HIGH PRESSURE RUN OUT SIZE SHALL BE SAME AS BOX INLET UNLESS NOTED OTHERWISE.
  4. PROVIDE 3M EQUIVALENT FIRE STOP AT ALL RATED WALL PENETRATIONS. REFER TO FIRE DAMPER DETAIL AND SPECIFICATIONS.
  5. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  6. COORDINATE DUCTWORK INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VAV BOXES AND OTHER ABOVE CEILING EQUIPMENT. PROVIDE DUCTWORK OFFSETS, REDUCERS AND FITTINGS WHERE REQUIRED.
  7. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
  8. CONTRACTOR HAS OPTION TO USE OVAL DUCT IN LIEU OF RECTANGULAR WHERE SHOWN.
  9. ROUTE ALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE UNLESS NOTED OTHERWISE.
  10. REFER TO ARCHITECTURAL PLANS FOR VAV BOX ACCESS DOOR LOCATIONS FOR HARD CEILING AREAS. FIELD VERIFY BEST LOCATION WITH ARCHITECT.
  11. COORDINATE EXACT LOCATIONS OF DUCTWORK AND PIPING WITH EXISTING TRUSSES, LIGHT FIXTURES, AND ANY OTHER DISCIPLINE.
  12. ALL EXPOSED ROUND SUPPLY DUCT SHALL BE SINGLE WALL, NONINSULATED, ROUND SPIRAL DUCT UNLESS NOTED OTHERWISE.
  13. ALL DIFFUSERS AND GRILLES SHOWN ON EXPOSED ROUND OR OVAL SPIRAL DUCT SHALL HAVE FACTORY WELDED COLLARS. PROVIDE FACTORY INSTALLED MANUAL DAMPERS AND FACTORY COLLARS WHERE SHOWN. CONTRACTOR TO INSTALL DIFFUSERS AND GRILLES TO FACTORY INSTALLED COLLARS.
  14. ALL EXPOSED DUCTWORK TO BE PAINTED EXCEPT THOSE IN STORAGE ROOMS OR MECHANICAL ROOMS.
  15. ALL ROUND RETURN DUCTS IN GYMNASIUM SHALL HAVE 2"x2" GALVANIZED WIRE MESH WELDED TO INSIDE OF DUCT AT END OF DUCT. PROVIDE FACTORY WELDS. 90% MINIMUM FREE AIR, TYP. (12) 24" DUCTS.
  16. ALL ROUND DUCT SHALL HAVE CONCENTRIC REDUCERS.
  17. ALL CONCEALED ROUND DUCT SHALL BE SINGLE WALL SPIRAL, EXTERNAL INSULATED, EXCEPT EXHAUST.
  18. ALL EXPOSED ROUND DUCTS SHALL BE DOUBLE WALL INSULATED WITH PERFORATED INNER LINER AND HAND-CAST SEALED JOINTS (BOTH HIGH AND LOW VELOCITY). UNLESS NOTED OTHERWISE.
  19. ALL DUCT CONNECTIONS AT VAV BOXES SHALL BE RIGID SPIRAL, SCREWED TO FITTING, TAPED, AND EXTERNALLY INSULATED. DO NOT USE FLEX DUCT. WHERE EXPOSED, PROVIDE COVER OVER INSULATION WITH SAME DIAMETER AS DOUBLE-WALL OUTER DIMENSION.
  20. EXHAUST DUCTS SHALL NOT BE INTERNALLY INSULATED. ALL JOINTS SHALL BE SEALED WITH WATER-BASED SEALANT.

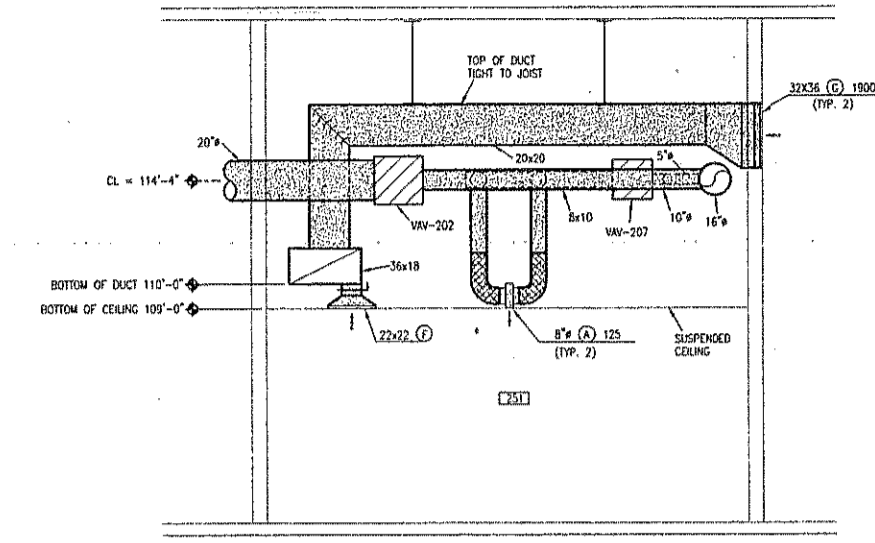
**FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8" = 1'-0"  
 HVAC NORTH

**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET M2.1**  
 FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST - HVAC



**PARTIAL SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 HVAC  
 1/8" = 1'-0"

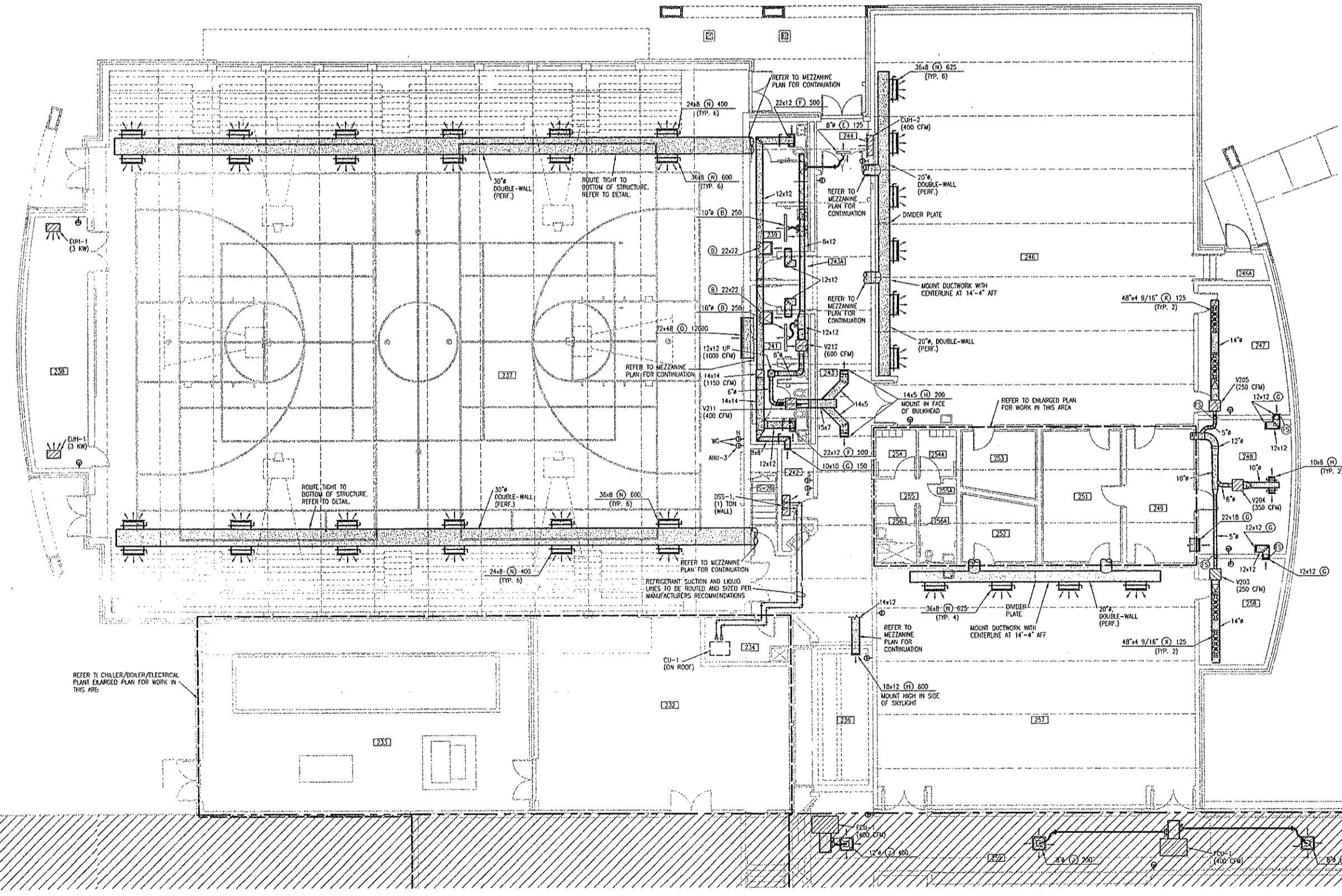


**SECTION A:A**  
 1/4" = 1'-0"

**LEGEND**

1. PROVIDE VINAFLEX NOISE BARRIER PRODUCED BY GLT PRODUCTS, MODEL VP2-100, 1 LB/SF VINYL LAMINATED TO 2" THICK QUILTED FIBERGLASS. PROVIDE OUTER FACE OF VINYL WITH SCRIM REINFORCED FOIL. PROVIDE 16 GA SHEET METAL DUCTWORK WITH STIFFENERS FOR VERTICAL DUCT TO UNIT AND PLenum BOX DEFINED BY DASHED LINE. NOISE BARRIER SHALL BE INSTALLED OVER AREA WHERE 16 GA SHEET METAL IS USED. 16 GA DUCTINATE SHALL BE APPROVED EQUAL FOR 16 GA DUCTWORK. PROVIDE SHEET METAL SCREWS WITH WASHERS TO ATTACH NOISE BARRIER TO SHEET METAL AT EVERY 6" O.C. BOTH DIRECTIONS. PROVIDE UNISTRUT ATTACHED TO STRUCTURE TO PROPERLY SUPPORT PLenum BOX AND NOISE BARRIER.

- NOTES**
- ALL LOW PRESSURE DUCT RUN OUTS SHALL BE SAME SIZE AS DIFFUSER NECK. ROUTE IN JOIST SPACE AND THROUGH JOISTS WHERE POSSIBLE.
  - VAV, FCU AND FCU DISCHARGE DUCTS SHALL BE SAME SIZE AS OUTLET DIMENSION UNLESS NOTED OTHERWISE VERIFY WITH MANUFACTURER.
  - REFER TO VAV BOX SCHEDULE FOR INLET DUCT SIZE. HIGH PRESSURE RUN OUT SIZE SHALL BE SAME AS BOX INLET UNLESS NOTED OTHERWISE.
  - PROVIDE 3M EQUIVALENT FIRE STOP AT ALL RATED WALL PENETRATIONS. REFER TO FIRE DAMPER DETAIL AND SPECIFICATIONS.
  - DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  - COORDINATE DUCTWORK INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VAV BOXES AND OTHER ABOVE CEILING EQUIPMENT. PROVIDE DUCTWORK OFFSETS, REDUCERS AND FITTINGS WHERE REQUIRED.
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  - REFER TO ARCHITECTURAL PLANS FOR VAV BOX ACCESS DOOR LOCATIONS FOR HARD CEILING AREAS. FIELD VERIFY BEST LOCATION WITH ARCHITECT.
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  - ALL DIFFUSERS AND GRILLES SHOWN ON EXPOSED ROUND OR OVAL SPIRAL DUCT SHALL HAVE FACTORY WELDED COLLARS. PROVIDE FACTORY INSTALLED MANUAL DAMPERS AND FACTORY COLLARS WHERE SHOWN. CONTRACTOR TO INSTALL DIFFUSERS AND GRILLES TO FACTORY INSTALLED COLLARS.
  - ALL EXPOSED DUCTWORK TO BE PAINTED EXCEPT THOSE IN STORAGE ROOMS OR MECHANICAL ROOMS.
  - ALL ROUND RETURN DUCTS IN GYMNASIUM SHALL HAVE 2"x2" GALVANIZED WIRE MESH WELDED TO INSIDE OF DUCT AT END OF DUCT. PROVIDE FACTORY WELDS. 90% MINIMUM FREE AIR, TYP. (12) 24" DUCTS.
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  - ALL DUCT CONNECTIONS AT VAV BOXES SHALL BE RIGID SPIRAL, SCREWED TO FITTING, TAPED, AND EXTERNALLY INSULATED. DO NOT USE FLEX DUCT. WHERE EXPOSED, PROVIDE COVER OVER INSULATION WITH SAME DIAMETER AS DOUBLE-WALL OUTER DIMENSION.
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**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 HVAC  
 1/8" = 1'-0"



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 Architects and Planning Consultants  
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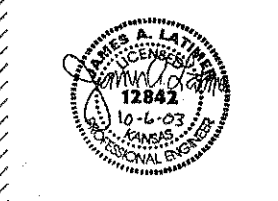


**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**M2.2**  
 SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST - HVAC

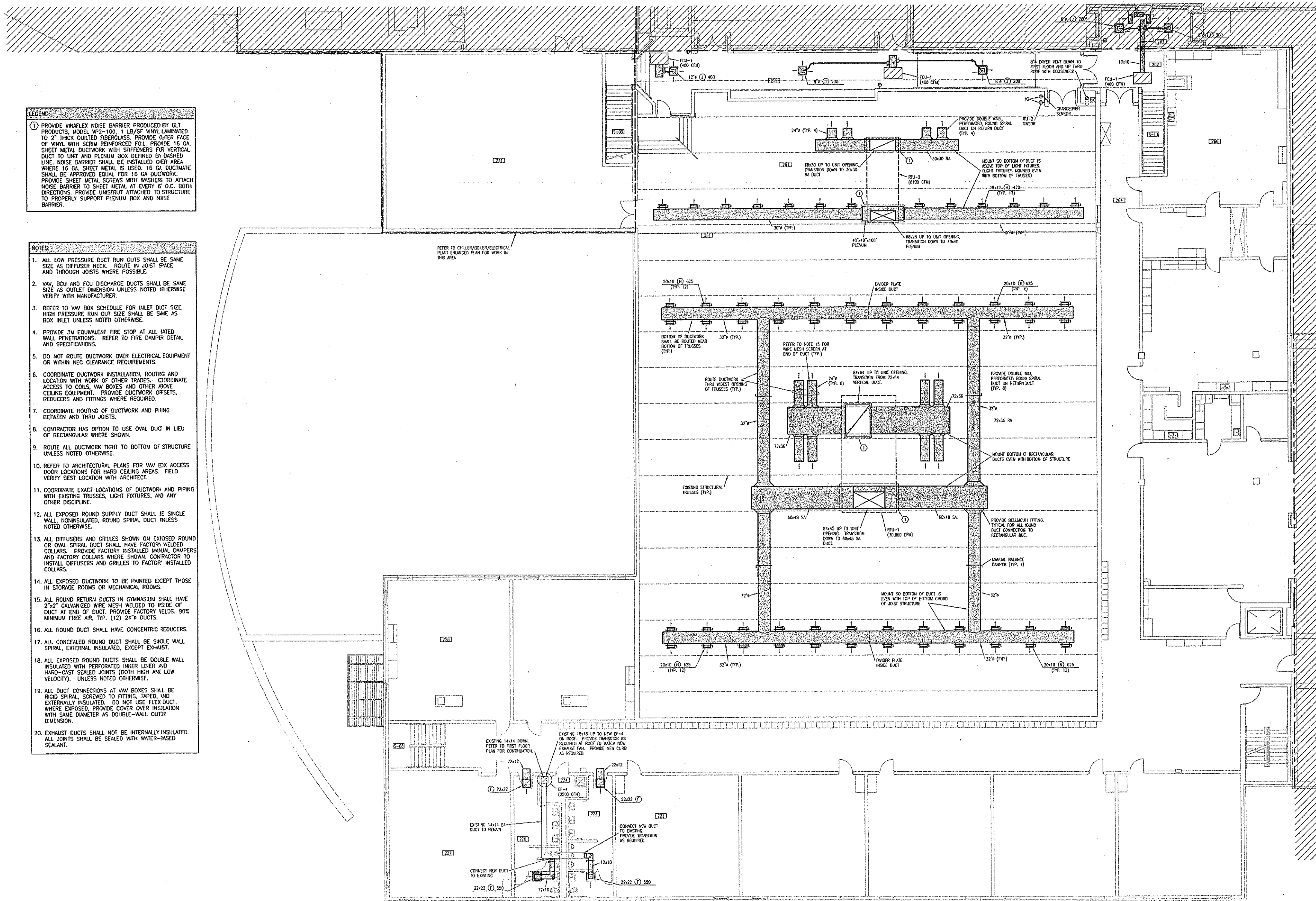
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**Wamego High School Improvements Phase I**  
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 Wamego, Kansas 66547

**SHEET M2.3**  
 SECOND FLOOR IMPROVEMENT PLAN - SOUTH EAST  
 HVAC



**LEGEND:**  
 ① PROVIDE VINAFLEX NOISE BARRIER PRODUCED BY GLT PRODUCTS, MODEL WF2-100, 1 LB/SF VINYL LAMINATED TO 2" THICK QUILTED FIBERGLASS. PROVIDE OUTER FACE OF VINYL WITH SCRIM REINFORCED FOIL. PROVIDE 16 GA. SHEET METAL DUCTWORK WITH STIFFENERS FOR VERTICAL DUCT TO UNIT AND PLENUM BOX DEFINED BY DASHED LINE. NOISE BARRIER SHALL BE INSTALLED OVER AREA WHERE 16 GA. SHEET METAL IS USED. 16 GA. DUCTMATE SHALL BE APPROVED EQUAL FOR 16 GA. DUCTWORK. PROVIDE SHEET METAL SCREWS WITH WASHERS TO ATTACH NOISE BARRIER TO SHEET METAL AT EVERY 6" O.C. BOTH DIRECTIONS. PROVIDE UNISTRUT ATTACHED TO STRUCTURE TO PROPERLY SUPPORT PLENUM BOX AND NOISE BARRIER.

- NOTES:**
1. ALL LOW PRESSURE DUCT RUN OUTS SHALL BE SAME SIZE AS DIFFUSER NECK. ROUTE IN JOIST SPACE AND THROUGH JOISTS WHERE POSSIBLE.
  2. VAV, BCU AND FCU DISCHARGE DUCTS SHALL BE SAME SIZE AS OUTLET DIMENSION UNLESS NOTED OTHERWISE. VERIFY WITH MANUFACTURER.
  3. REFER TO VAV BOX SCHEDULE FOR INLET DUCT SIZE. HIGH PRESSURE RUN OUT SIZE SHALL BE SAME AS BOX INLET UNLESS NOTED OTHERWISE.
  4. PROVIDE 3M EQUIVALENT FIRE STOP AT ALL MATED WALL PENETRATIONS. REFER TO FIRE DAMPER DETAIL AND SPECIFICATIONS.
  5. DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  6. COORDINATE DUCTWORK INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VAV BOXES AND OTHER ABOVE CEILING EQUIPMENT. PROVIDE DUCTWORK OFFSETS, REDUCERS AND FITTINGS WHERE REQUIRED.
  7. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
  8. CONTRACTOR HAS OPTION TO USE OVAL DUCT IN LIEU OF RECTANGULAR WHERE SHOWN.
  9. ROUTE ALL DUCTWORK TIGHT TO BOTTOM OF STRUCTURE UNLESS NOTED OTHERWISE.
  10. REFER TO ARCHITECTURAL PLANS FOR VAV BOX ACCESS DOOR LOCATIONS FOR HARD CEILING AREAS. FIELD VERIFY BEST LOCATION WITH ARCHITECT.
  11. COORDINATE EXACT LOCATIONS OF DUCTWORK AND PIPING WITH EXISTING TRUSSES, LIGHT FIXTURES, AND ANY OTHER DISCIPLINE.
  12. ALL EXPOSED ROUND SUPPLY DUCT SHALL BE SINGLE WALL, NONINSULATED, ROUND SPIRAL DUCT UNLESS NOTED OTHERWISE.
  13. ALL DIFFUSERS AND GRILLES SHOWN ON EXPOSED ROUND OR OVAL SPIRAL DUCT SHALL HAVE FACTORY WELDED COLLARS. PROVIDE FACTORY INSTALLED MANUAL DAMPERS AND FACTORY COLLARS WHERE SHOWN. CONTRACTOR TO INSTALL DIFFUSERS AND GRILLES TO FACTORY INSTALLED COLLARS.
  14. ALL EXPOSED DUCTWORK TO BE PAINTED EXCEPT THOSE IN STORAGE ROOMS OR MECHANICAL ROOMS.
  15. ALL ROUND RETURN DUCTS IN GYMNASIUM SHALL HAVE 2"x2" GALVANIZED WIRE MESH WELDED TO INSIDE OF DUCT AT END OF DUCT. PROVIDE FACTORY VELDS. 90% MINIMUM FREE AIR, TYP. (12) 24" DUCTS.
  16. ALL ROUND DUCT SHALL HAVE CONCENTRIC REDUCERS.
  17. ALL CONCEALED ROUND DUCT SHALL BE SINGLE WALL SPIRAL, EXTERNAL INSULATED, EXCEPT EXHAUST.
  18. ALL EXPOSED ROUND DUCTS SHALL BE DOUBLE WALL INSULATED WITH PERFORATED INNER LINER AND HARD-CAST SEALED JOINTS (BOTH HIGH AND LOW VELOCITY). UNLESS NOTED OTHERWISE.
  19. ALL DUCT CONNECTIONS AT VAV BOXES SHALL BE RIGID SPIRAL. SCREWED TO FITTING, TAPED, AND EXTERNALLY INSULATED. DO NOT USE FLEX DUCT WHERE EXPOSED. PROVIDE COVER OVER INSULATION WITH SAME DIAMETER AS DOUBLE-WALL OUTER DIMENSION.
  20. EXHAUST DUCTS SHALL NOT BE INTERNALLY INSULATED. ALL JOINTS SHALL BE SEALED WITH WATER-BASED SEALANT.

**SECOND FLOOR - SOUTHEAST**  
 1/8"=1'-0" HVAC

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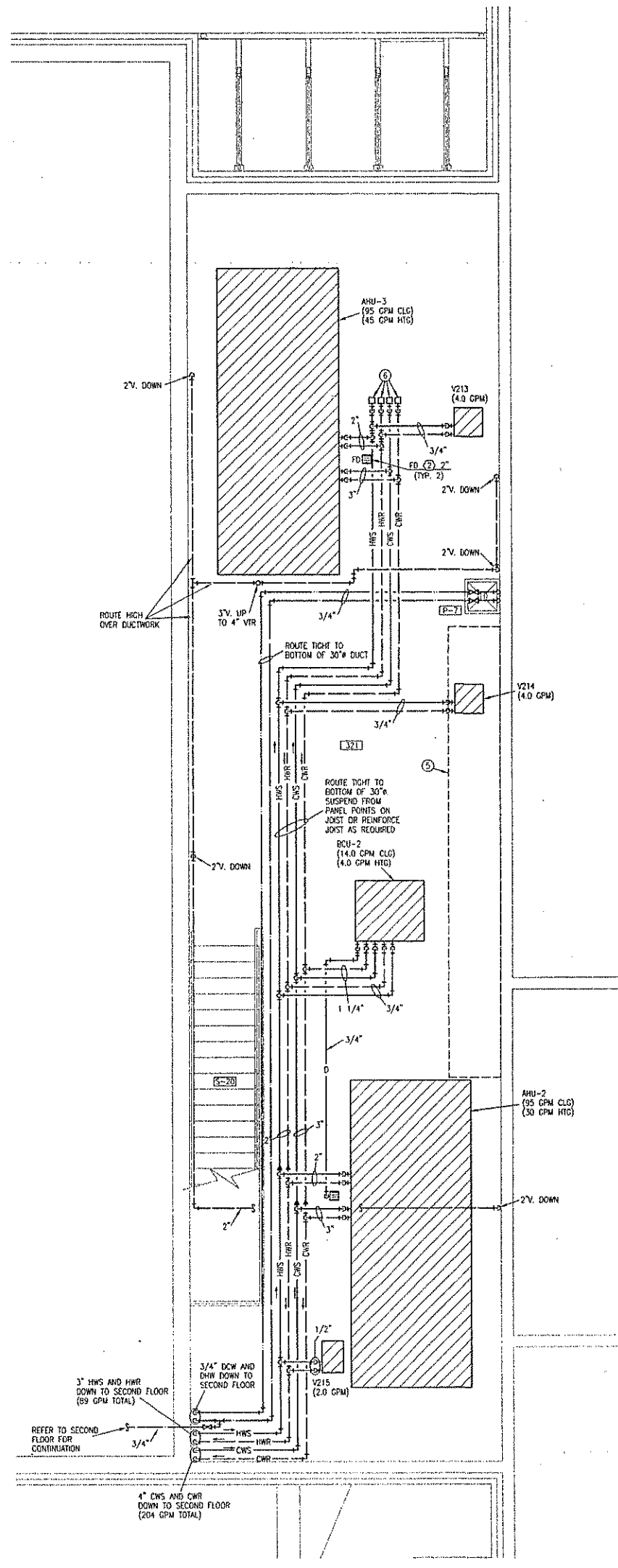


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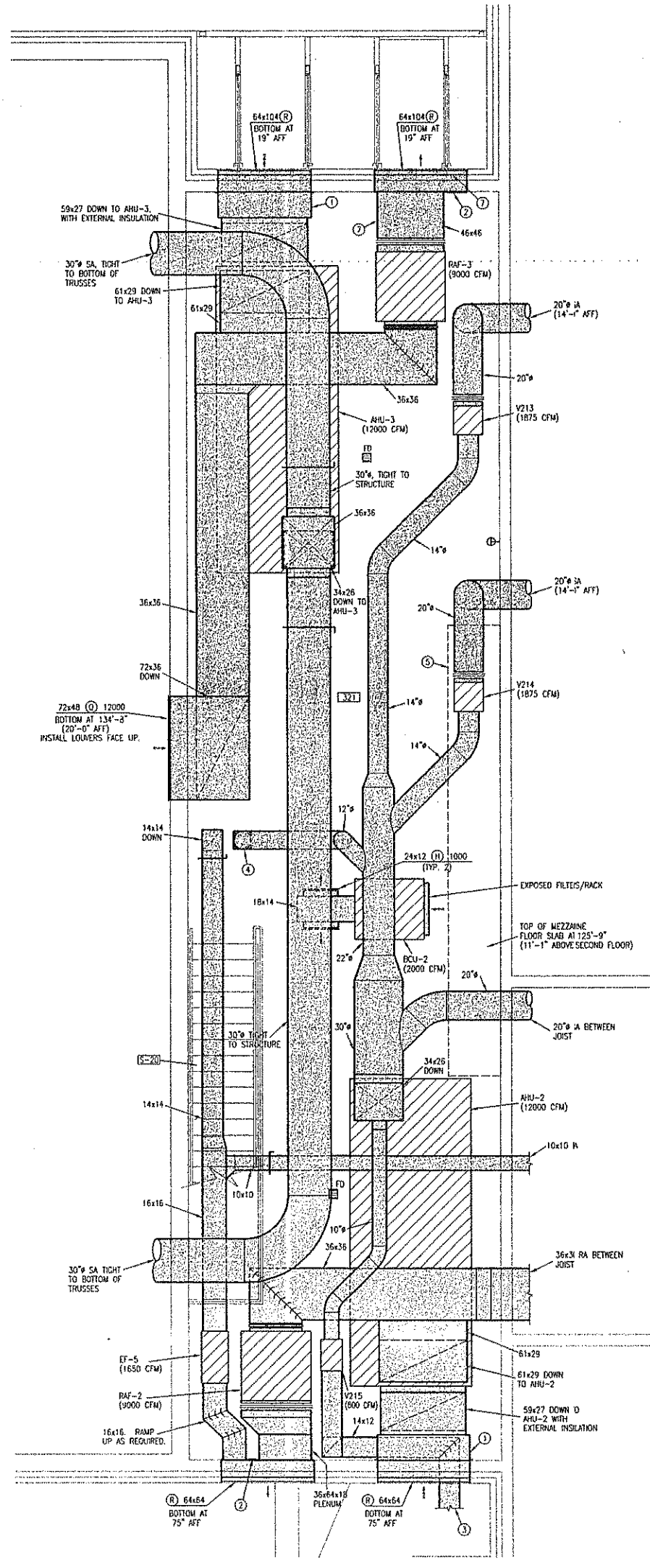


**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**M2.4**  
 MEZZANINE PLANS -  
 PLUMBING AND HVAC



**MEZZANINE PLAN**  
 1/4"=1'-0"  
 MECHANICAL  
 NORTH



**MEZZANINE PLAN**  
 1/4"=1'-0"  
 HVAC  
 NORTH

- NOTES**
- ALL MECHANICAL ROOM AHU DUCTWORK SHALL BE CONSTRUCTED USING FLANGED AND GASKETED JOINTS.
  - ALL FRESH AIR INTAKE DUCTWORK SHALL BE SEALED AND INSULATED ON THE EXTERIOR OF THE DUCTWORK.
  - COORDINATE ROUTING OF DUCTWORK WITH WORK OF OTHER TRADES.
  - DUCTWORK SHALL BE ROUTED OVER ELECTRICAL PANELS OR EQUIPMENT OR INFRRIDGE ON NEC CLEARANCES REFER TO ELECTRICAL SHEETS FOR COORDINATION.
  - ALL MECHANICAL EQUIPMENT AND PIPING SHALL BE HUNG FROM JOIST PANEL POINTS OR THE TRAPEZE AT JOIST PANEL POINTS OR THE JOIST IS TO BE REINFORCED.
  - PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS.
  - DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  - COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VALV BOXES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
  - ALL BRANCH PIPING RUNS TO REHEAT COILS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
  - SIZE OF AUTOMATIC FLOW VALVES MAY NOT MATCH LINE SIZE. COORDINATE WITH MANUFACTURER AND PROVIDE REDUCERS AND/OR FITTINGS AS REQUIRED.
  - ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AND HIGH POINT VENT LOCATIONS.
  - ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
  - ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
  - NOT ALL OFFSETS AND DROPS ARE SHOWN ON PLANS. COORDINATE WITH ALL OTHER TRADES AND INSTALL AS REQUIRED.
  - ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING (TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS).
  - PROVIDE AUTOMATIC FLOW CONTROL VALVES ON ALL TERMINAL DEVICES EXCEPT AHU COILS. REFER TO COIL CONNECTION DETAILS.
  - PROVIDE 3-WAY CONTROL VALVES ON ALL END OF LOOP HOT WATER COIL CONNECTIONS. REFER TO HOT WATER SYSTEM PIPING SCHEMATIC AND CONNECTION DETAILS.

- LEGEND:**
- 64x64x18 PLENUM WITH EXTERNAL 2" INSULATION. SLOPE BOTTOM 1/2" PER FOOT BACK TO LOUVER SILL.
  - BLANK-OFF UNUSED PORTION OF LOUVER WITH REMOVABLE 2" INSULATED PANEL AND METAL BACKING.
  - ROUTE BELOW PLENUM AND THROUGH WALL TO SKYLIGHT DIFFUSER.
  - TRANSITION 12" TO 12x12 AT FLOOR PENETRATION.
  - DDC CONTROLS AND ELECTRICAL EQUIPMENT IN THIS AREA. MAINTAIN NEC CLEARANCES.
  - HIGH-POINT SYSTEM AIR VENTS. PROVIDE TUBE DRAIN TO NEAREST FLOOR DRAIN.
  - DUCTWORK SHALL BE FLANGED AND EASILY REMOVABLE.
  - LOUVER TO BE REMOVABLE FROM SLEEVE/WALL FOR FUTURE LARGE COMPONENT ACCESS/REMOVAL FROM MEZZANINE.

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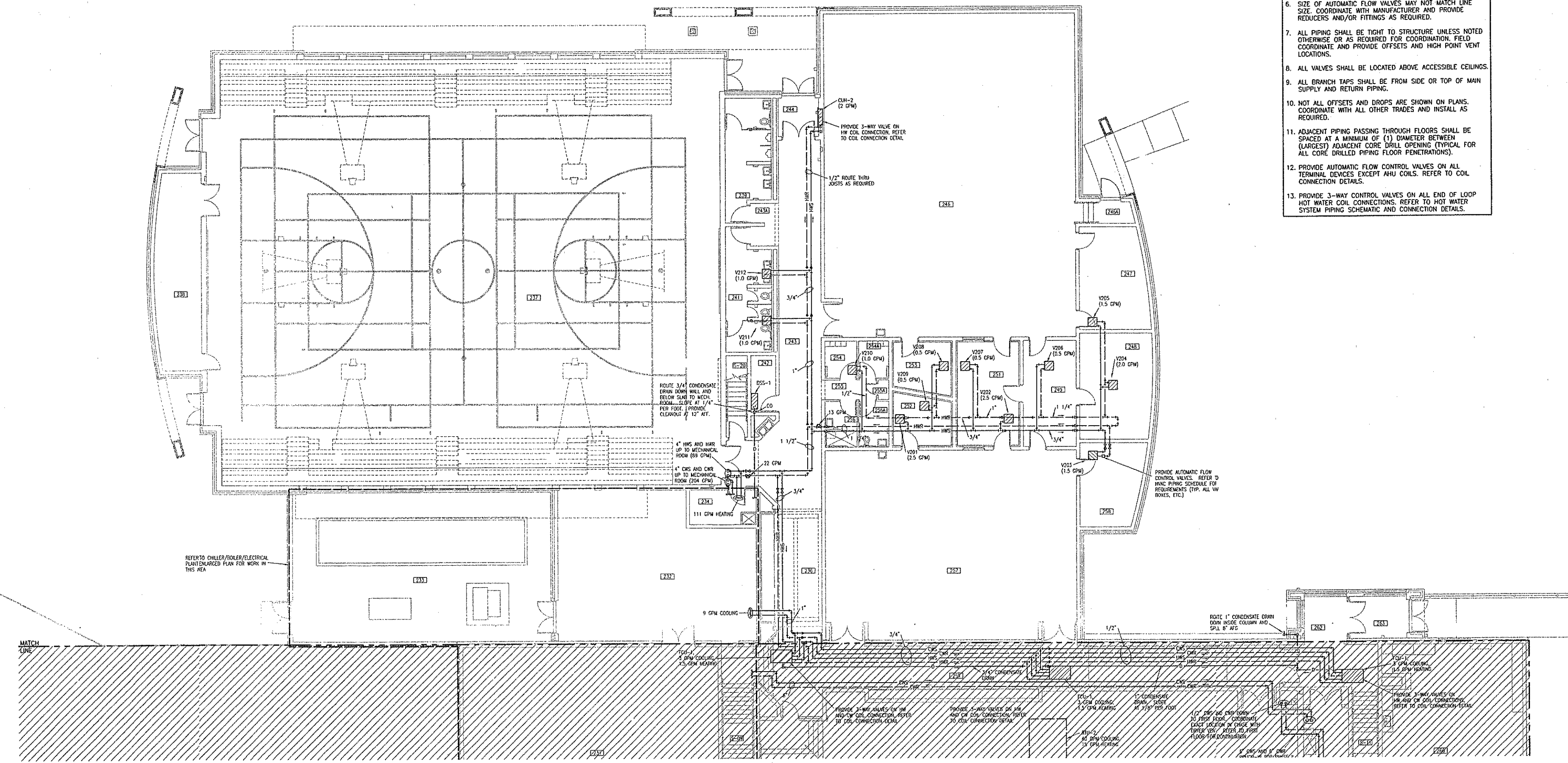
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**SHEET M3.2**  
 SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST - HVAC PIPING

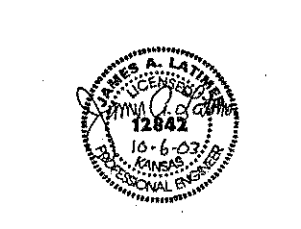
- NOTES**
1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS.
  2. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
  3. COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VAV BOXES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
  4. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
  5. ALL BRANCH PIPING RUNS TO REHEAT COILS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
  6. SIZE OF AUTOMATIC FLOW VALVES MAY NOT MATCH LINE SIZE. COORDINATE WITH MANUFACTURER AND PROVIDE REDUCERS AND/OR FITTINGS AS REQUIRED.
  7. ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AND HIGH POINT VENT LOCATIONS.
  8. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
  9. ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
  10. NOT ALL OFFSETS AND DROPS ARE SHOWN ON PLANS. COORDINATE WITH ALL OTHER TRADES AND INSTALL AS REQUIRED.
  11. ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS.
  12. PROVIDE AUTOMATIC FLOW CONTROL VALVES ON ALL TERMINAL DEVICES EXCEPT AHU COILS. REFER TO COIL CONNECTION DETAILS.
  13. PROVIDE 3-WAY CONTROL VALVES ON ALL END OF LOOP HOT WATER COIL CONNECTIONS. REFER TO HOT WATER SYSTEM PIPING SCHEMATIC AND CONNECTION DETAILS.



**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8"=1'-0" HVAC PIPING



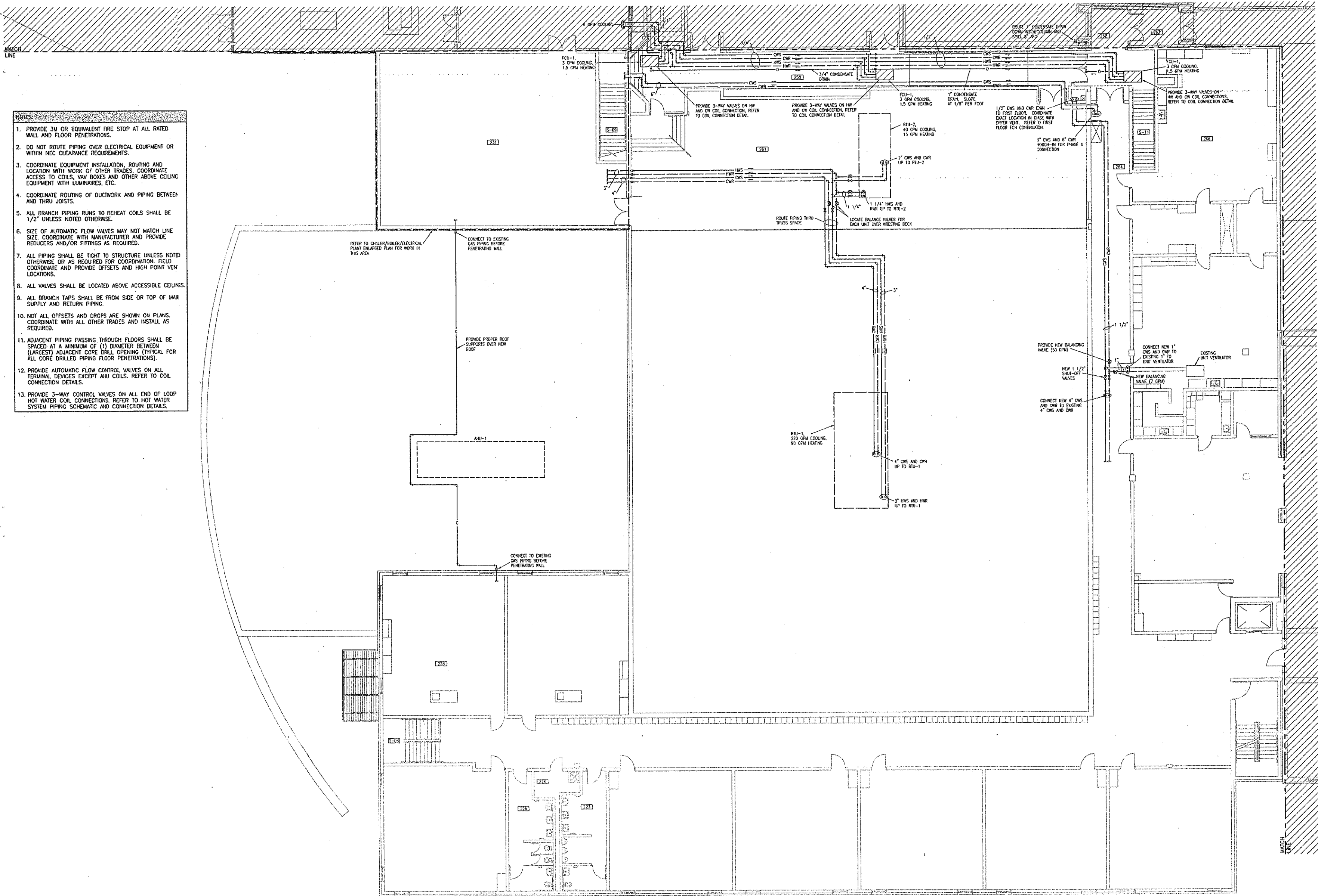
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**SHEET**  
**M3.3**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST -  
 HVAC PIPING

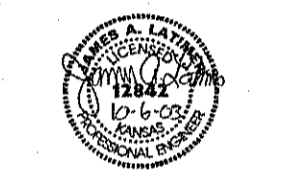
- NOTES:**
1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS.
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  7. ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AND HIGH POINT VEN LOCATIONS.
  8. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
  9. ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
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  11. ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING (TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS).
  12. PROVIDE AUTOMATIC FLOW CONTROL VALVES ON ALL TERMINAL DEVICES EXCEPT AHU COILS. REFER TO COIL CONNECTION DETAILS.
  13. PROVIDE 3-WAY CONTROL VALVES ON ALL END OF LOOP HOT WATER COIL CONNECTIONS. REFER TO HOT WATER SYSTEM PIPING SCHEMATIC AND CONNECTION DETAILS.



**SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8"=1'-0"  
 HVAC PIPING  
 NORTH

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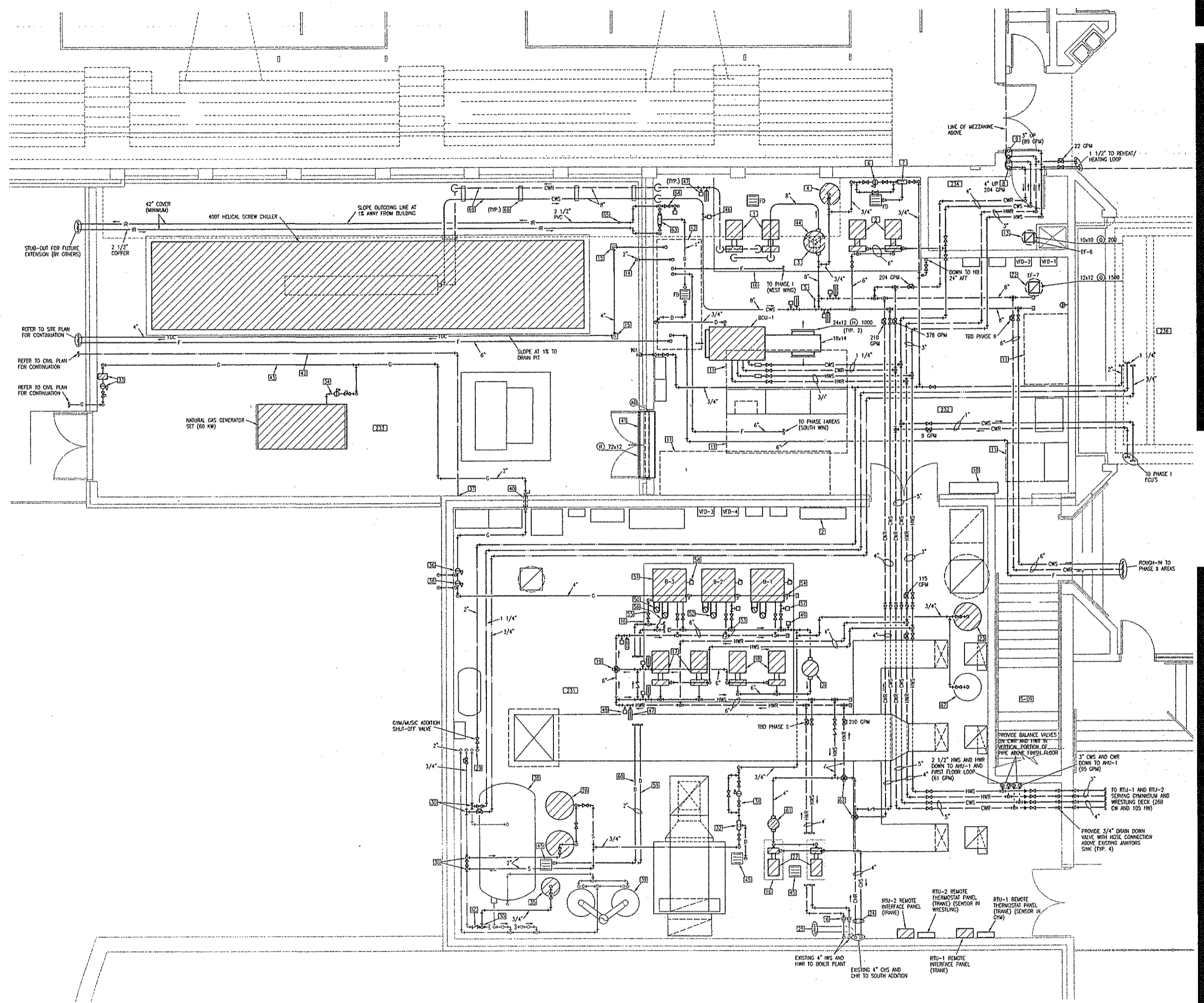


**Wamego High School Improvements**  
 Phase I  
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**SHEET**  
**M3.4**  
 CHILLER/BOILER/ELECTRICAL PLANT - MECHANICAL

- LEGEND:**
- |  |  |
|--|--|
| 11 PRIMARY CHILLED WATER PUMPS PCWP-1, PCWP-2.   | 37 REFER TO FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.  |
| 12 ZONE CHILLED WATER PUMPS CWP-1, CWP-2 (SERVE PHASE I/ADDITION AREA).  | 38 EXISTING DOMESTIC HOT WATER STORAGE TANK.   |
| 13 CHILLED WATER AIR SEPARATOR AND ELIMINATOR.   | 39 EXISTING DOMESTIC WATER HEATERS.  |
| 14 CHILLED WATER EXPANSION TANK.   | 40 CORE DRILL AND SEAL WALL. COORDINATE BEST ROUTING WITH EXISTING ELECTRICAL EQUIPMENT.   |
| 15 COMMON PRIMARY/SECONDARY SYSTEM DECOUPLER. 5 PIPE DIAMETERS MAXIMUM.  | 41 INTERLOCK DAMPER WITH EF-7. THERMOSTATIC CONTROL WITH BCU-1.  |
| 16 CHILLED WATER SYSTEM AUTOMATIC MAKE-UP WATER ASSEMBLY AT 48" AFF. SECURE TO WALL.   | 42 4" DUCTILE IRON DCW.  |
| 17 RPZ BACKFLOW PREVENTER WITH DRAIN.  | 43 BURIED STEEL 2 PSI GAS DOWNSTREAM OF METER BY M/C.  |
| 18 4" CWS/CWR UP TO MEZZANINE.   | 44 M/C TO PROVIDE 4" STEEL PIPE SUPPORT ANCHORED TO FLOOR FOR 1700 LB AIR SEPARATOR. SECURE AT STRUCTURE FOR LATERAL SUPPORT ONLY.   |
| 19 3" HWS/HWR UP TO MEZZANINE.   | 45 EXISTING FLOOR DRAIN.   |
| 20 DDC CHILLER PLANT CONTROLS  | 46 CHILLER FLOW SWITCH.  |
| 21 MAINTAIN NEC ELECTRICAL CLEARANCES IN THIS AREA. COORDINATE WITH E/C.   | 47 DDC TEMPERATURE SENSOR (TYP.).  |
| 22 FIRE SPRINKLER SERVICE EQUIPMENT/HISER. REFER TO DETAIL, SHEET ME3.1.   | 48 THERMOMETER (TYP.).   |
| 23 10x10 DUCT DOWN TO BELOW DECK.  | 49 MANUAL RESET HIGH LIMIT (210°F).  |
| 24 TEST/CHECK AND DRAIN 8" AFG.  | 50 6" PVC COMBUSTION AIR INTAKE PIPING WITH VACUUM RELIEF DAMPER CLOSE TO AIR INTAKE.  |
| 25 THRUST BLOCK (TYP.). REFER TO DETAIL.   | 51 COPPER FIN TYPE MODULAR BOILER (TYP. 3).  |
| 26 3 1/2" HOUSEKEEPING PAD.  | 52 6" AL29-4C SS STAINLESS STEEL FLUE WITH MANUFACTURERS VENT TERMINATION KIT, BOTTOM AT 24" ABOVE ROOF. PROVIDE VERTICAL VENT TEE AT OUTLET WITH 5/8" TEFLOX TUBING TO CONDENSATE DRAIN (TYP. 3). |
| 27 ZONE HOT WATER PUMPS HWP-1, HWP-2 (SERVES PHASE I/ADDITION AREAS).  | 53 3" SUPPLY AND RETURN PIPING DROPS WITH SHUT-OFF VALVE AND UNION, (TYP. FOR 3) BOILERS.  |
| 28 PRIMARY HOT WATER PUMPS PHWP-1, PHWP-2.   | 54 2 1/2" GAS DROP WITH SHUT-OFF, DIRT LEG AND 1 1/2" CONNECTION TO BOILER (TYP. FOR 3) BOILERS. PIPE BOILER REGULATOR VENTS TO EXTERIOR.  |
| 29 3-WAY HOT WATER RESET MIXING VALVE.   | 55 1" BOILER DRAIN WITH VALVE TO 2" DRAIN HEADER (TYP. OF 3 BOILERS).  |
| 30 HOT WATER AIR SEPARATOR AND ELIMINATOR.   | 56 5/8" TEFLOX CONDENSATE TUBE TERMINATED INTO 2" PVC CONDENSATE DRAIN HEADER (TYP. OF 3 BOILERS).   |
| 31 DDC BOILER PLANT CONTROLS.  | 57 PROBE TYPE LOW WATER CUT-OFF (LWCO) (EACH BOILER).  |
| 32 12x12 DUCT DOWN TO BELOW DECK.  | 58 PIPE 3/4" SAFETY RELIEF DOWN TO 6" AFF (TYP. 3).  |
| 33 HOT WATER EXPANSION TANK.   | 59 2" PVC CONDENSATE DRAIN SLOPED ACROSS FLOOR TO EXISTING DRAIN.  |
| 34 INTERCEPT EXISTING SOUTH WING 2-PIPE SYSTEM AT THIS POINT.  | 60 2" COPPER BOILER MAINTENANCE DRAIN FROM HEADER.   |
| 35 EXISTING CHW PIPING TO KITCHEN AHU.   | 61 2-PIPE SYSTEM AIR SEPARATOR AND ELIMINATOR.   |
| 36 EXISTING HEAT EXCHANGER PIPING FROM STEAM BOILER PLANT TO BE REUSED TO SUPPLY HOT WATER TO PHASE II AREAS. FINAL CONNECTIONS UNDER PHASE II.    | 62 HEATING/COOLING CHANGEOVER DIVERter VALVES.   |
| 37 SOUTH WING 2-PIPE SYSTEM PUMPS CHWP-1 AND CHWP-2.   | 63 2 1/2" RPZ BACKFLOW PREVENTER RACKED ON WALL AT 48" AFF FOR LAWN IRRIGATION SYSTEM. ROUTE 1" DRAIN TO FLOOR DRAIN.  |
| 38 WATER SOFTENER TO SERVE HOT WATER SYSTEM ONH.   | 64 PROVIDE 3/4" COMPRESSED AIR VALVE AND FITTING FOR MAINTENANCE BLOWDOWN AND MANUAL AIR VENT FOR GRAVITY DRAINDOWN.   |
| 39 2" DCW TO 3" DCW BELOW. REFER TO PLUMBING PLANS.  | 65 TRANSITION FROM COPPER TO PVC AT THIS POINT.  |
| 40 CONNECT TO EXISTING DOMESTIC WATER PIPING AT THIS POINT.  | 66 STRUT PIPE SUPPORTS IN CONCRETE (TYP.).   |
| 41 HOT WATER SYSTEM AUTOMATIC MAKE-UP WATER ASSEMBLY ON FREE-STANDING UNISTRUT SUPPORT AT 48" AFF.   | 67 NEW LOCATION FOR RELOCATED HW EXPANSION TANK.   |
| 42 RPZ BACKFLOW PREVENTER ON STAND.  | 68 REPLACE EXISTING CHECK VALVE.   |
| 43 GAS PRV FOR 2" DELIVERY PRESSURE AND METER BY UTILITY. TOTAL DEMAND 6780 CFH.   | 69 PROVIDE ALUMINUM SHEATHING OVER INSULATION.   |
| 44 LOCAL REGULATOR FOR 2" TO GEN SET. 780 CFH DEMAND.  |  |
| 45 DOMESTIC HOT WATER EXPANSION TANK.  |  |
| 46 REDUNDANT LOCK-UP STYLE PRV AND REGULATORS FOR 11" W.C. DELIVERY PRESSURE. TOTAL DEMAND 6000 CFH. ROUTE RELIEF LINE SIZED PER MFR. TO EXTERIOR. |  |

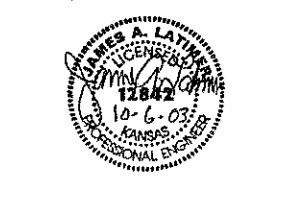
- GENERAL NOTES:**
- NO PIPING OR EQUIPMENT SHALL BE INSTALLED ABOVE ELECTRICAL PANELBOARDS OR INFRASTRUCTURE ON NEC CLEARANCES. REFER TO ELECTRICAL SHEETS FOR COORDINATION.
  - COORDINATE LOCATION AND ELEVATION OF EQUIPMENT, PIPING, AND DUCTWORK WITH WORK OF OTHER TRADES.
  - REFER TO MECHANICAL DETAIL SHEETS AND SYSTEM SCHEMATIC FOR ADDITIONAL PIPING.
  - REFER TO HVAC AND HVAC PIPING SHEETS FOR ADDITIONAL DUCTWORK AND EQUIPMENT IN MECHANICAL ROOMS AND REQUIRED CONNECTIONS.
  - ALL MECHANICAL EQUIPMENT AND PIPING SHALL BE HUNG FROM JOIST PANEL POINTS OR THE TRAPEZE AT JOIST PANEL POINTS OR THE JOIST IS TO BE REINFORCED. IN EXISTING MECHANICAL ROOM, REMOVE AND REPLACE EXISTING DYP BOARD CEILING TO ACCESS STRUCTURE. RATING NOT REQUIRED.
  - CHILLER CANNOT BE ENERGIZED UNTIL ALL OF PHASE SYSTEMS ARE CONNECTED TO ENSURE ADEQUATE SYSTEM WATER VOLUME TO AVOID SHORT CYCLING OF CHILLER.
  - PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS.
  - ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.



**CHILLER/BOILER/ELECTRICAL PLANT**  
 1/4" = 1'-0"  
 MECHANICAL  
 NORTH

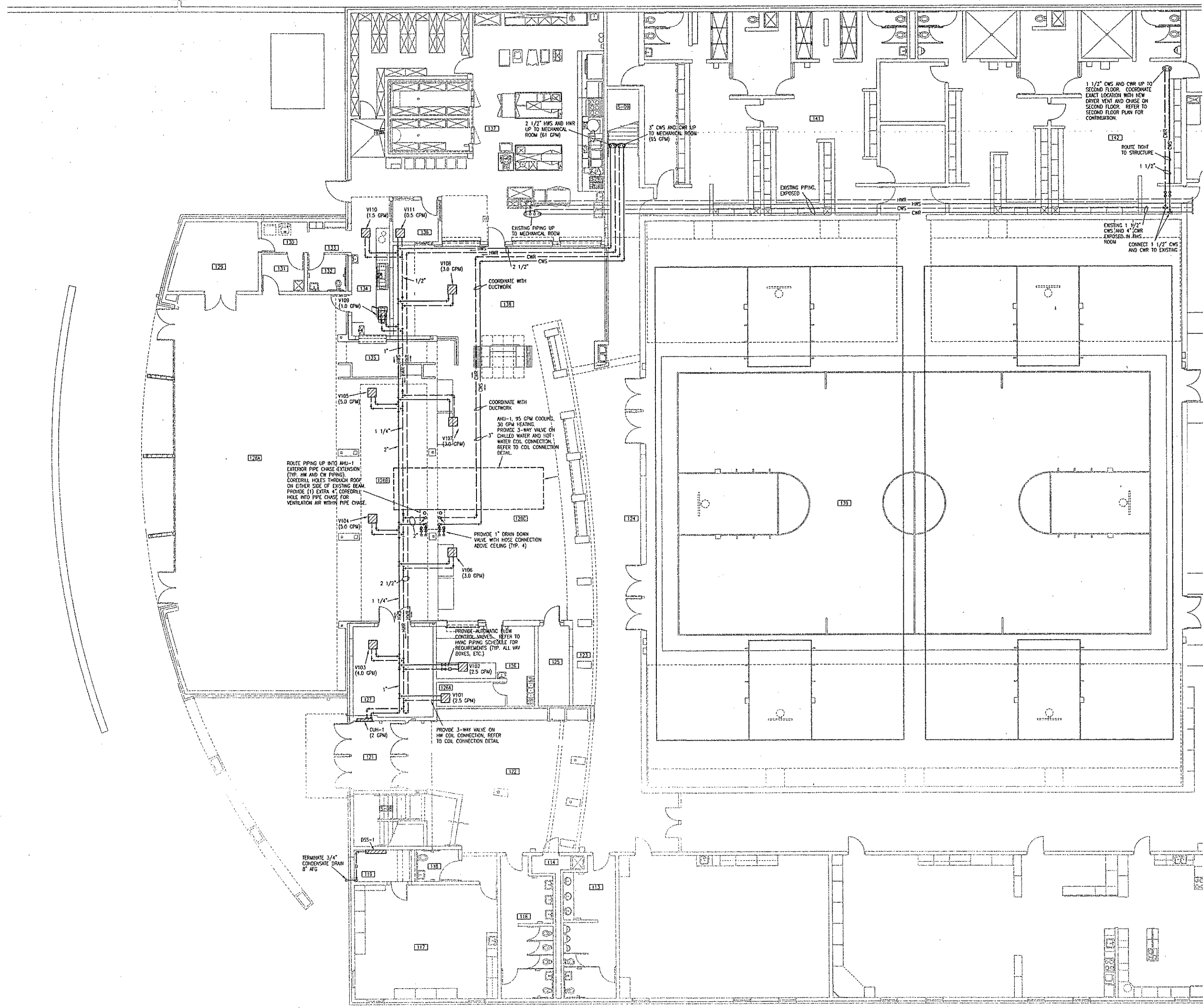
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SHEET  
**M3.1**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST  
 HVAC PIPING



1. PROVIDE 3M OR EQUIVALENT FIRE STOP AT ALL RATED WALL AND FLOOR PENETRATIONS.
2. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT OR WITHIN NEC CLEARANCE REQUIREMENTS.
3. COORDINATE EQUIPMENT INSTALLATION, ROUTING AND LOCATION WITH WORK OF OTHER TRADES. COORDINATE ACCESS TO COILS, VAV BOXES AND OTHER ABOVE CEILING EQUIPMENT WITH LUMINAIRES, ETC.
4. COORDINATE ROUTING OF DUCTWORK AND PIPING BETWEEN AND THRU JOISTS.
5. ALL BRANCH PIPING RUNS TO REHEAT COILS SHALL BE 1/2" UNLESS NOTED OTHERWISE.
6. SIZE OF AUTOMATIC FLOW VALVES MAY NOT MATCH LINE SIZE. COORDINATE WITH MANUFACTURER AND PROVIDE REDUCERS AND/OR FITTINGS AS REQUIRED.
7. ALL PIPING SHALL BE TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE OR AS REQUIRED FOR COORDINATION. FIELD COORDINATE AND PROVIDE OFFSETS AND HIGH POINT VENT LOCATIONS.
8. ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
9. ALL BRANCH TAPS SHALL BE FROM SIDE OR TOP OF MAIN SUPPLY AND RETURN PIPING.
10. NOT ALL OFFSETS AND DROPS ARE SHOWN ON PLANS. COORDINATE WITH ALL OTHER TRADES AND INSTALL AS REQUIRED.
11. ADJACENT PIPING PASSING THROUGH FLOORS SHALL BE SPACED AT A MINIMUM OF (1) DIAMETER BETWEEN (LARGEST) ADJACENT CORE DRILL OPENING (TYPICAL FOR ALL CORE DRILLED PIPING FLOOR PENETRATIONS).
12. PROVIDE AUTOMATIC FLOW CONTROL VALVES ON ALL TERMINAL DEVICES EXCEPT AHU COILS. REFER TO COIL CONNECTION DETAILS.
13. PROVIDE 3-WAY CONTROL VALVES ON ALL END OF LOOP HOT WATER COIL CONNECTIONS. REFER TO HOT WATER SYSTEM PIPING SCHEMATIC AND CONNECTION DETAILS.

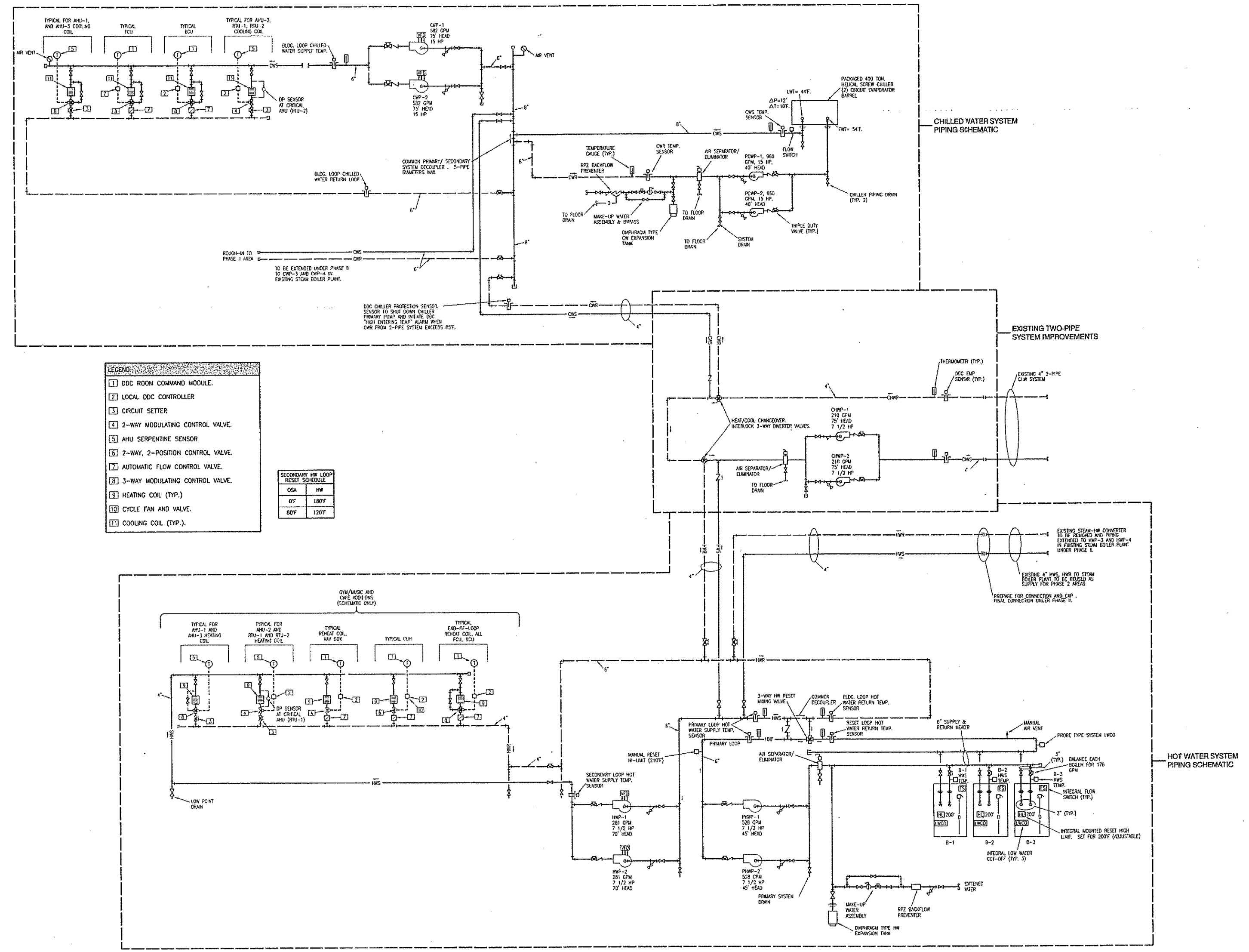
**FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 HVAC PIPING  
 1/8" = 1'-0"  
 NORTH

**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
 115 Westport Drive Suite F  
 Manhattan, Kansas 66502  
 (785) 776-1800 (785) 776-9906 FAX

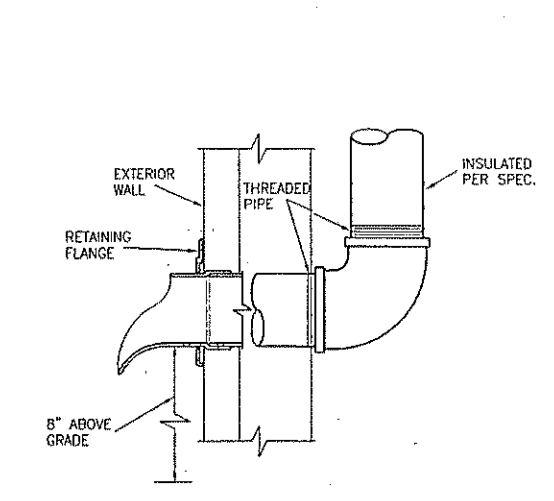


**Wamego High School Improvements**  
 Phase I  
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 801 North Lincoln Street  
 Wamego, Kansas 66547

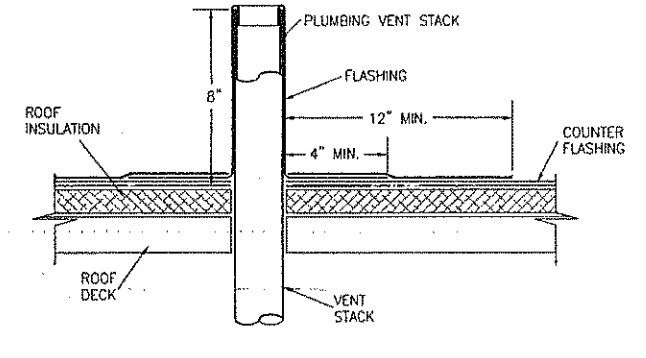
**SHEET**  
**M4.1**  
 HVAC SYSTEM  
 PIPING SCHEMATIC



**HVAC SYSTEM PIPING SCHEMATIC**  
 NO SCALE

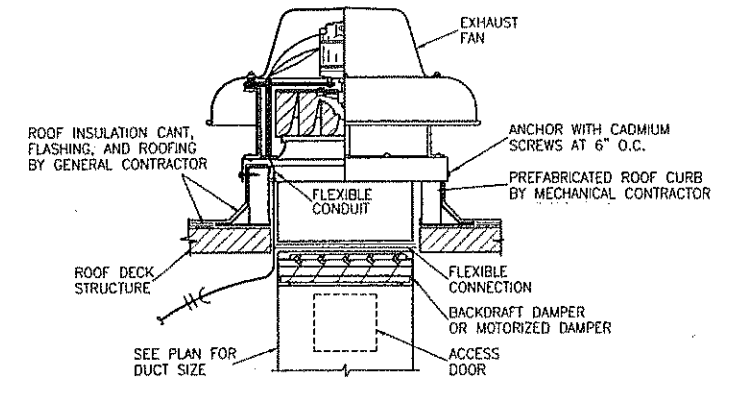


**DOWNSPOUT NOZZLE DETAIL**  
 NO SCALE

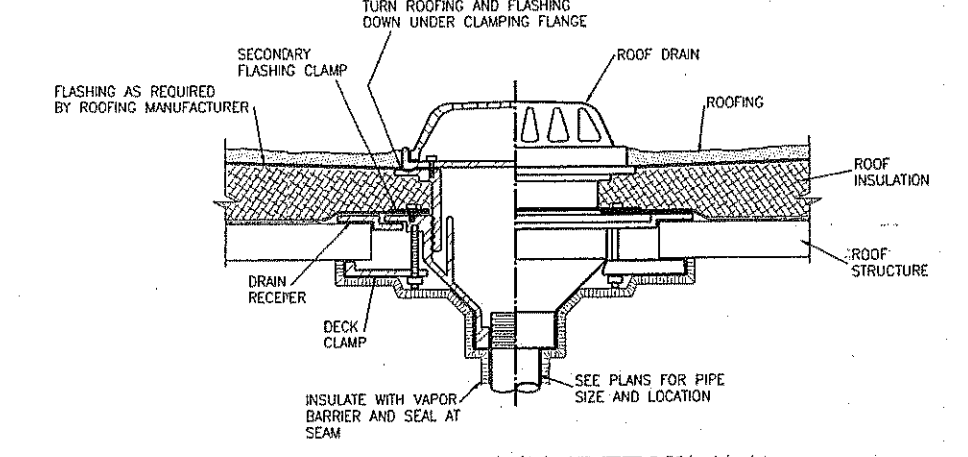


NOTE  
 1. VERIFY PROPER FLASHING PROCEDURE WITH ROOF MEMBRANE MANUFACTURER.

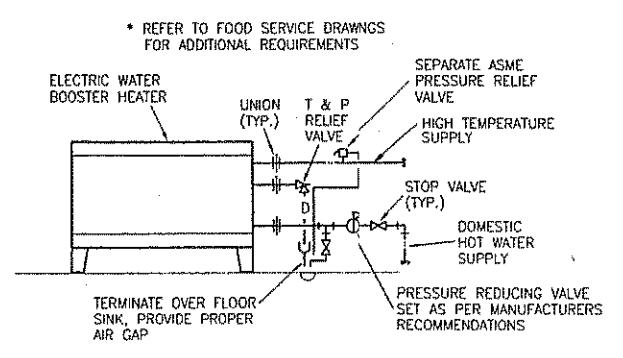
**VENT STACK DETAIL**  
 NO SCALE (ALSO SEE ARCHITECTURAL SHEET A1.4.1)



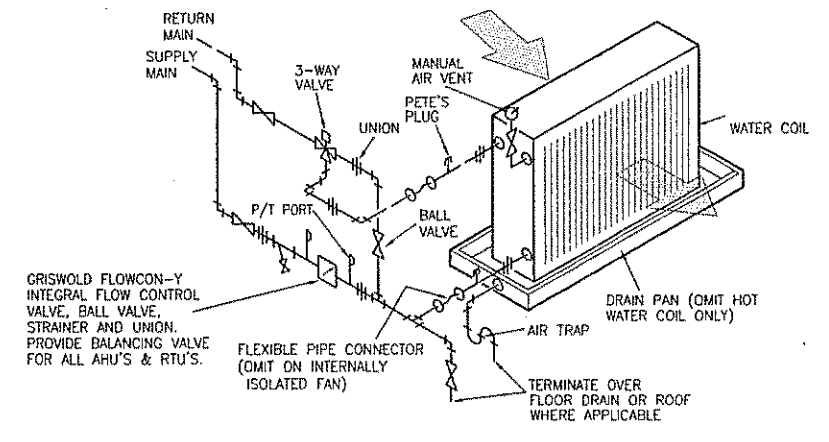
**EXHAUST FAN DETAIL**  
 NO SCALE (ALSO SEE ARCHITECTURAL SHEET A1.4.1)



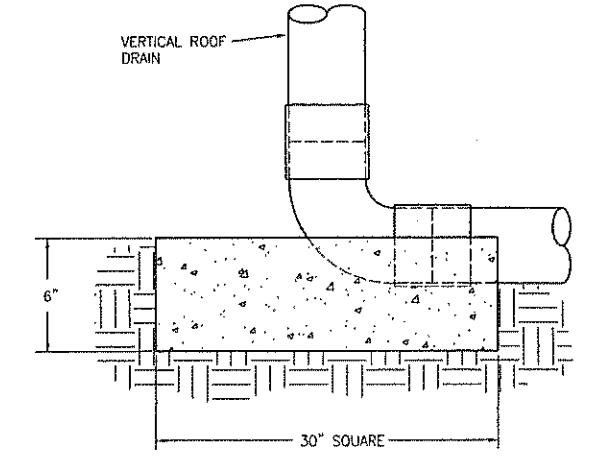
**ROOF DRAIN DETAIL**  
 NO SCALE (ALSO SEE ARCHITECTURAL SHEET A1.4.1)



**BOOSTER HEATER DETAIL**  
 NO SCALE

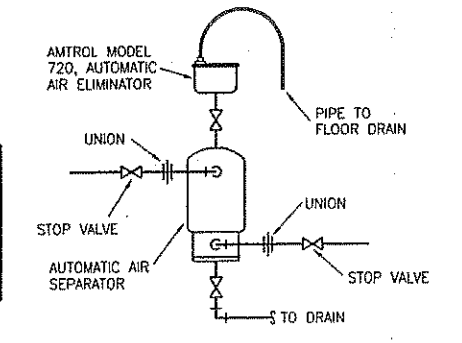


**SINGLE WATER COIL DETAIL**  
 NO SCALE (TYPICAL FOR ALL 3-WAY CW & HW COILS) (2-WAY COILS SIMILAR)

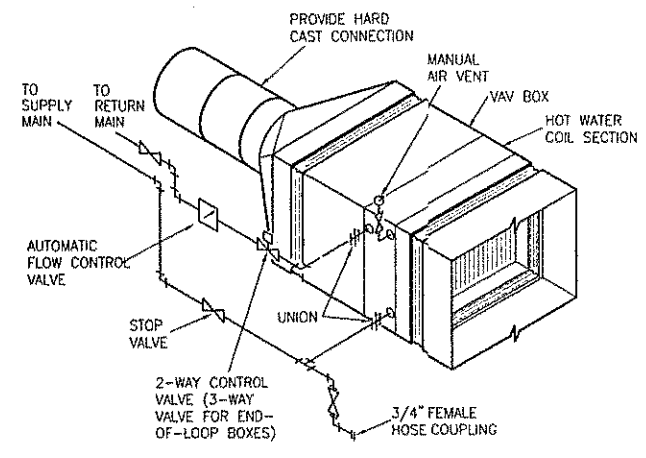


**ROOF DRAIN FOOTING DETAIL**  
 NO SCALE

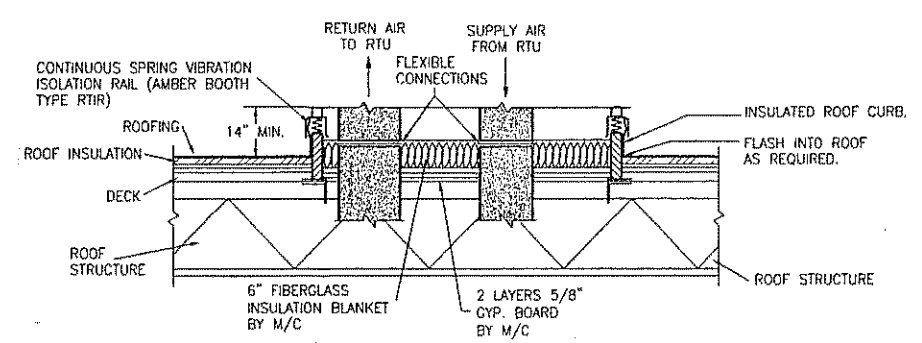
HOT/CHILLED WATER SYSTEM SCHEDULE		
SYSTEM	MANUFACTURER	MODEL NUMBER
EXISTING 2-PIPE SYSTEM	AMTROL	4 AS-L
CHILLED WATER	AMTROL	8 AS-L
HOT WATER	AMTROL	6 AS-L



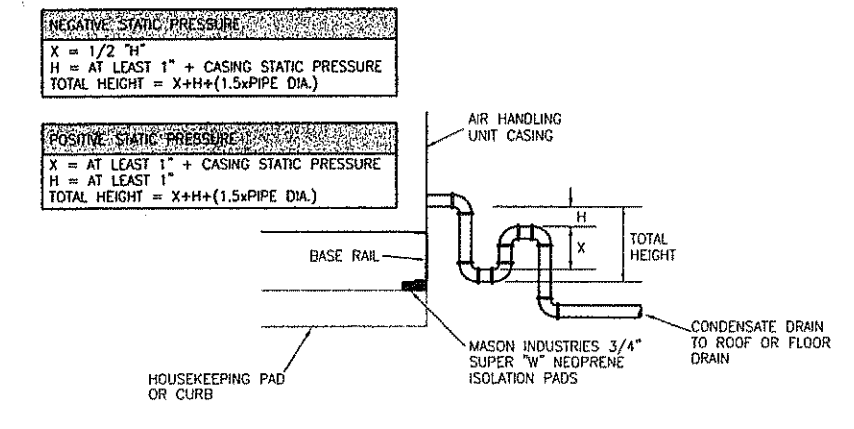
**AIR SEPARATOR/ELIMINATOR DETAIL**  
 NO SCALE (TYPICAL OF HOT AND CHILLED WATER SYSTEMS)



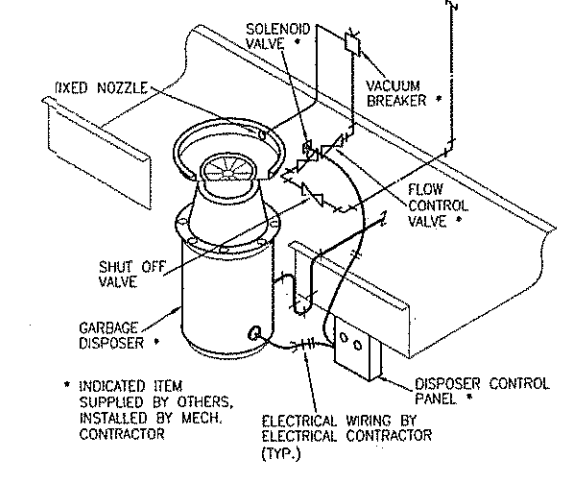
**V.A.V. BOX PIPING DETAIL**  
 NO SCALE



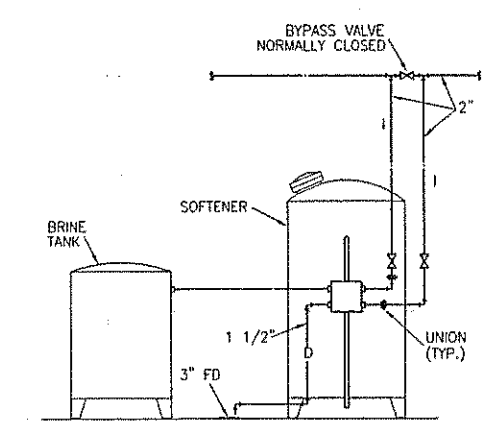
**RTU CURB DETAIL**  
 NO SCALE (AHU-1, RTU-1, RTU-2) (ALSO SEE ARCHITECTURAL SHEET A1.4.1)



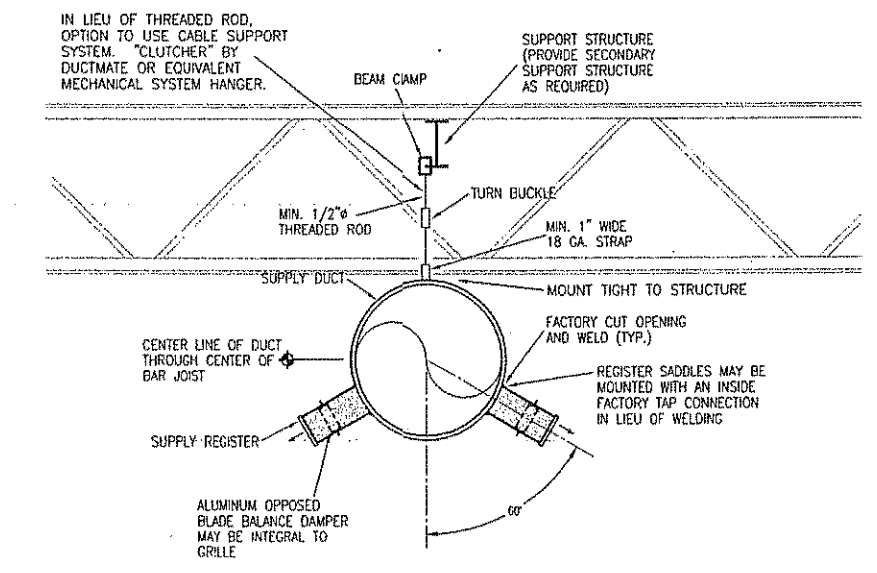
**P-TRAP DETAIL**  
 NO SCALE (TYPICAL FOR ALL AHU'S & RTU'S)



**GARBAGE DISPOSER CONNECTION DETAIL**  
 NO SCALE (REFER TO FOOD SERVICE DRAWINGS)



**WATER SOFTENER DETAIL**  
 NO SCALE

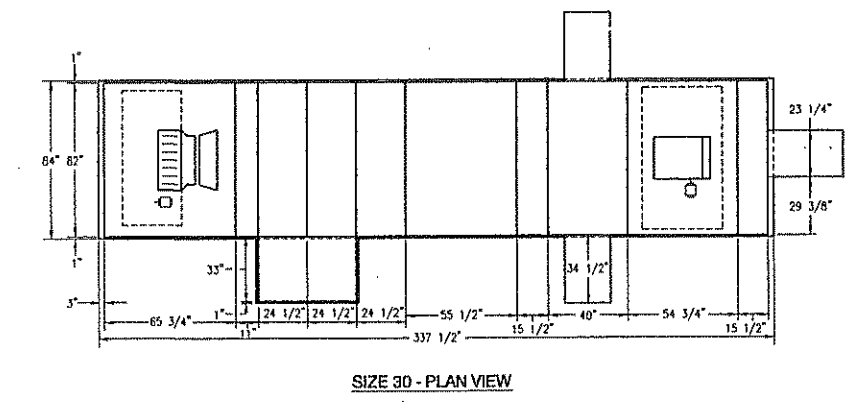
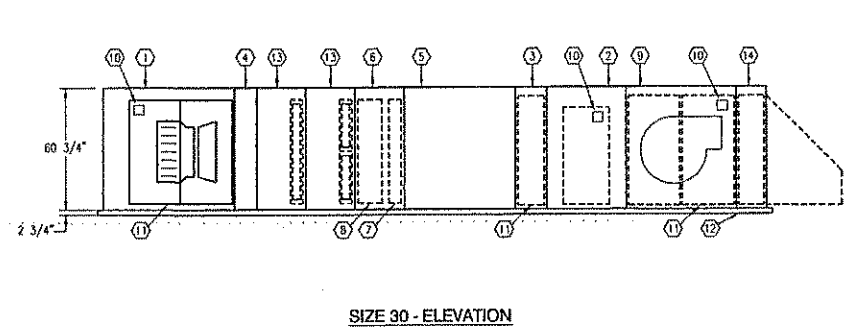


**GYMNASIUM DUCT DETAIL**  
 NO SCALE (NEW GYMNASIUM)

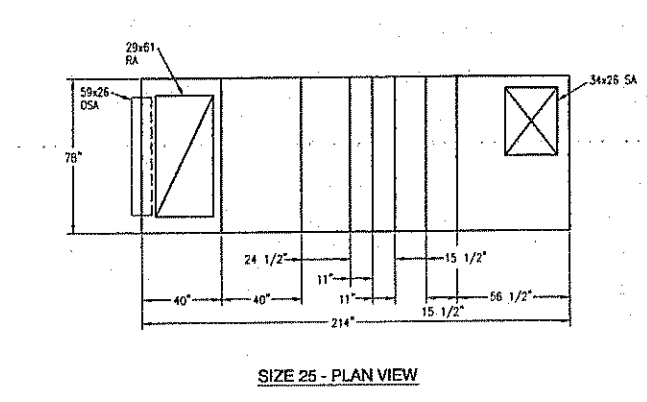
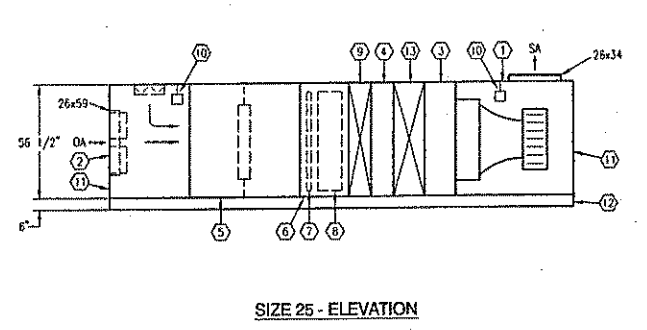




- LEGEND: (SIZE 30) (AHU-1)
- 1 TRANE PLUG FAN MODULE (SUPPLY).
  - 2 TRANE SIDE MIXING BOX MODULE.
  - 3 TRANE MEDIUM ACCESS MODULE.
  - 4 TRANE SMALL ACCESS MODULE.
  - 5 TRANE AIR BLENDER MODULE.
  - 6 TRANE CARTRIDGE FILTER MODULE.
  - 7 FARR 30/30 2" PLEATED FILTER.
  - 8 FARR RICA-FLOW 15, 12", 65% EFFICIENT CARTRIDGE FILTER.
  - 9 TRANE FC FAN MODULE (EXHAUST).
  - 10 INSPECTION LIGHT.
  - 11 PROVIDE ACCESS DOOR WITH WINDOW, THIS MODULE.
  - 12 TRANE CURB WITH AMBER BOOTH VIBRATION RAIL.
  - 13 TRANE MEDIUM HORIZONTAL COIL MODULE.
  - 14 EXHAUST DAMPER MODULE.
- NOTES:  
 1. PROVIDE ALL SERVICEABLE MODULES WITH ACCESS DOORS.



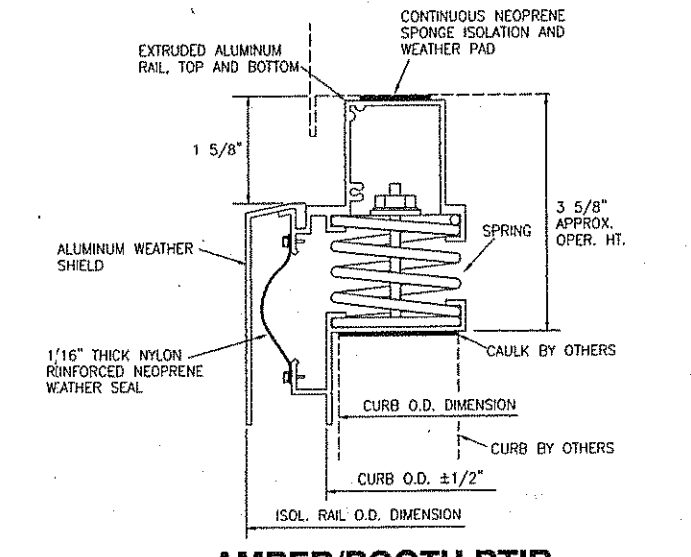
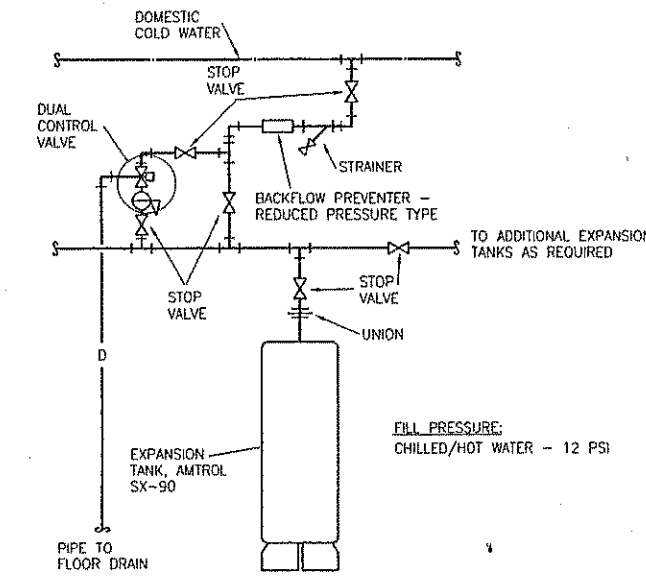
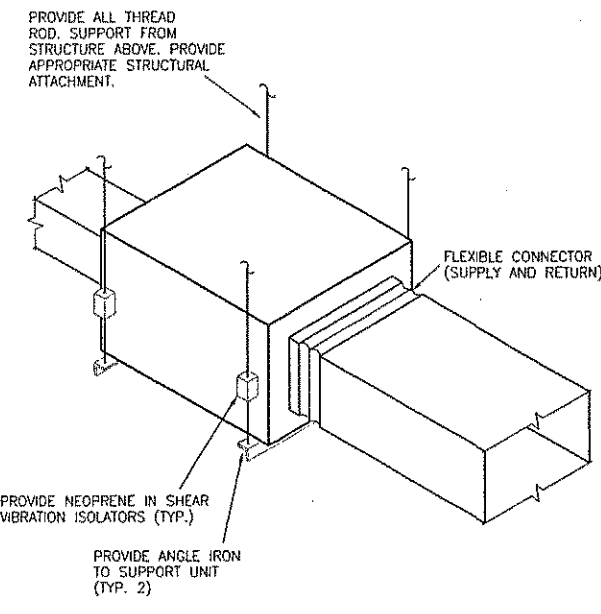
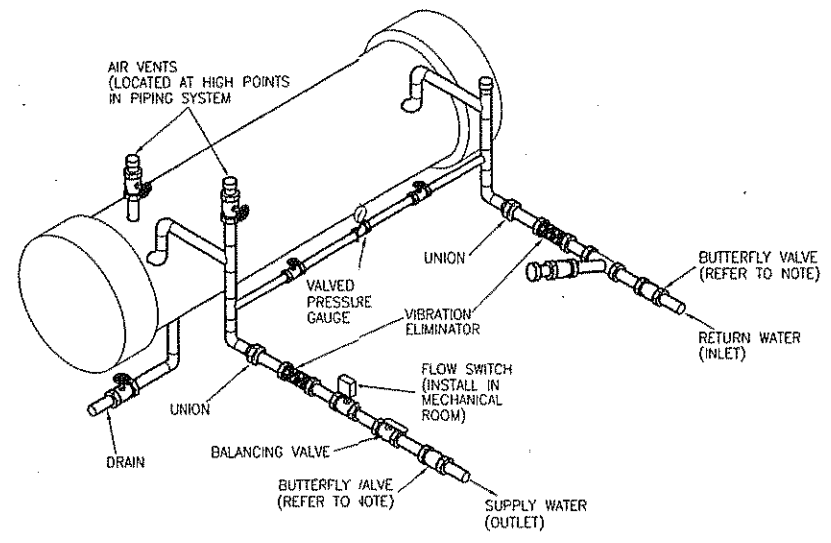
- LEGEND: (SIZE 25) (AHU-1)
- 1 TRANE PLUG FAN MODULE (SUPPLY).
  - 2 TRANE TRAO DAMPER MIXING BOX FOR ECONOMIZER AIR CONTROL AND MONITORING.
  - 3 TRANE MEDIUM ACCESS MODULE.
  - 4 TRANE SMALL ACCESS MODULE.
  - 5 TRANE AIR BLENDER MODULE.
  - 6 TRANE CARTRIDGE FILTER MODULE.
  - 7 FARR 30/30 2" PLEATED FILTER.
  - 8 FARR RICA-FLOW 15, 12", 65% EFFICIENT CARTRIDGE FILTER.
  - 9 TRANE SMALL HORIZONTAL COIL MODULE.
  - 10 INSPECTION LIGHT.
  - 11 PROVIDE ACCESS DOOR WITH WINDOW, THIS MODULE.
  - 12 TRANE BASE RAIL.
  - 13 TRANE MEDIUM HORIZONTAL COIL MODULE.
- NOTES:  
 1. PROVIDE ALL SERVICEABLE MODULES WITH ACCESS DOORS.



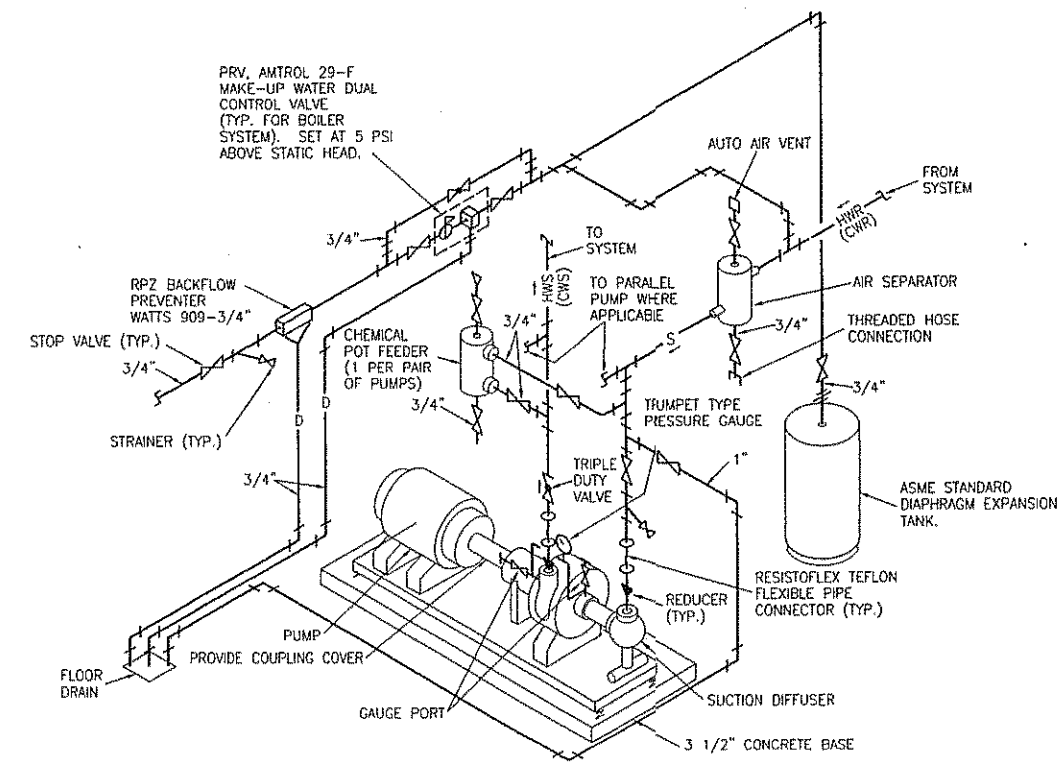
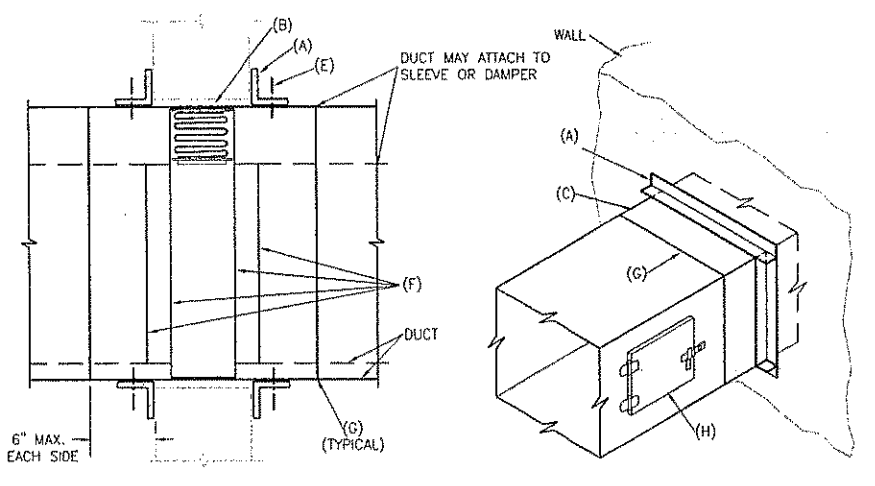
**AIR HANDLING UNIT 1 DETAIL**  
 1/4"=1'-0"

**AIR HANDLING UNITS 2 & 3 DETAIL**  
 1/4"=1'-0"

- NOTES:  
 1. PROVIDE SHUTOFF (BALL) VALVES IN THE EVAPORATOR INLET AND OUTLET PIPING TO FACILITATE WATER TEMPERATURE SENSOR REMOVAL.  
 2. HIGH PRESSURE RESULTING FROM RISING WATER TEMPERATURES (DUE TO AMBIENT CONDITIONS) MAY CAUSE INTERNAL DAMAGE TO THE EVAPORATOR.  
 3. SHUTOFF VALVES SHOULD NOT BE CLOSED WITH COLD WATER IN THE CHILLER.



- TYPICAL INSTALLATION DETAILS:  
 (A) RETAINING ANGLES: MINIMUM 1 1/2" x 1 1/2" x 0.054 (16 GA.)  
 (B) CLEARANCE: 1/8" PER LINEAR FOOT BOTH DIMENSIONS.  
 (C) STEEL SLEEVE PER SMACNA.  
 (D) APPROVED FIRE DAMPER (CURTAIN OF SLIDE TYPE).  
 (E) SECURE RETAINING ANGLES TO SLEEVE ONLY, ON 8" CENTER WITH:  
 1. 1/2" LONG WELDS, OR  
 2. 1/4" BOLTS & NUTS, OR  
 3. #10 STEEL SCREWS, OR  
 4. MIN. 3/16" STEEL RIVETS  
 (F) SECURE DAMPER TO SLEEVE ON 8" CENTERS WITH:  
 1. 1/2" LONG WELDS, OR  
 2. 1/4" BOLTS & NUTS IN HOLES PROVIDED, OR  
 3. #10 STEEL SCREWS, OR  
 4. MIN. 3/16" STEEL RIVETS  
 (G) CONNECT DUCT TO SLEEVE WITH BREAK-AWAY JOINT AS PER SMACNA.  
 (H) INSTALL ACCESS DOOR OR PANEL.







DUCTLESS SPLIT SYSTEM SCHEDULE													
MARK	MANUFACTURER	MODEL NUMBER	CFM	O/A CFM	COOLING CAPACITY					UNIT CHARACTERISTICS			REMARKS
					TOTAL	SENS.	E.A.T.	L.A.T.	AMB.	SA EST.	EXT. S.P.	SA FAN	
DSS-1	SANYO	12K511A	260	-	12,000	11,500	78/64	55/54	105'	-	-	-	1, 2, 3, 4

REMARKS LEGEND:  
 1 - WALL MOUNTED DUCTLESS SPLIT SYSTEM.  
 2 - ELECTRICAL CONNECTION SHALL BE FED FROM CU-1.  
 3 - PROVIDE UNIT WITH MICROCOMPUTER CONTROLS, LOW AMBIENT CONTROL TO O/F, (3) FAN SPEEDS, 24-HOUR ADJUSTABLE TIMER, WASHABLE FILTERS, HORIZONTAL AIR FLOW.  
 4 - PROVIDE STAND-ALONE LOCAL THERMOSTAT.

DUCTLESS SPLIT SYSTEM CONDENSING UNIT SCHEDULE										
UNIT NO.	MANUFACTURER	MODEL NUMBER	TOTAL MBH	SENSIBLE MBH	REFRIGERANT LINE SIZING *		MIN. CKT. AMPS	MAX. FUSE	ELECTRICAL CHARACTERISTICS	REMARKS
					SUCTION	LIQUID				
CU-1	SANYO	C1211	12	11.5	1/2"	1/4"	11	20A	120V/1Ø	1, 2

REMARKS LEGEND:  
 1 - OUTSIDE AMBIENT TEMPERATURE SHALL BE 105'.  
 2 - PROVIDE WITH MICROCOMPUTER CONTROLS AND LOW AMBIENT CONTROL TO O/F.  
 \* VERIFY EXACT LINE SIZES W/ MANUFACTURER

EXHAUST FAN SCHEDULE							
MARK	MANUFACTURER	MODEL NUMBER	CFM	EST. E.S.P.	ELECTRICAL CHARACTERISTICS	AREA/ITEM SERVED	REMARKS
EF-1	CARNES	VEBK-15	1000	0.5	1/4 HP, 120V/1Ø	CONCESSIONS	1, 6, 7, 8
EF-2	CARNES	VEBK-8	450	0.5	1/8 HP, 120V/1Ø	RESTROOMS/JANITORS - CAFE	1, 2, 6, 8
EF-3	CARNES	VEBK-10	600	0.7	1/3 HP, 120V/1Ø	DISHWASHER HOOD	1, 3, 5, 6, 7, 8
EF-4	CARNES	VEBK-15	2500	1.0	1 HP, 120V/1Ø	RESTROOMS - SOUTH WING	1, 4, 6, 8
EF-5	CARNES	VEBK-12	1850	0.5	1/2 HP, 120V/1Ø	RESTROOMS - WEST WING	1, 2, 6, 8
EF-6	CARNES	VEBK-6	200	0.5	1/8 HP, 120V/1Ø	JANITORS	1, 6, 8, 10
EF-7	CARNES	VEBK-12	1500	0.5	1/2 HP, 120V/1Ø	BOILER/ELECTRICAL PLANT	1, 6, 8, 9

REMARKS LEGEND:  
 1 - ROOF MOUNTED FAN WITH CURB, BIRD SCREEN, AND DISCONNECT SWITCH.  
 2 - DDC CONTROL. INTERLOCK WITH RESPECTIVE AHU SERVING THE AREA.  
 3 - PROVIDE WITH GREASE THROUGH, DRAIN AND VENTED ROOF CURB, UL-752 LISTING.  
 4 - DDC CONTROL. OPERATE ON TIME SCHEDULE.  
 5 - PROVIDE WITH ARC CORROSION COATING FOR DISH MACHINE APPLICATION.  
 6 - PROVIDE ELECTRIC MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN.  
 7 - MANUAL CONTROL VIA LOCAL SWITCH.  
 8 - BELT DRIVE, ALUMINUM FINISH.  
 9 - LOCAL DDC THERMOSTAT CONTROL.  
 10 - SWITCH WITH LIGHTS IN ROOM.

BLOWER COIL UNIT SCHEDULE																
MARK	MANUFACTURER	MODEL NUMBER	FAN CFM	E.S.P. W.C.	ELECTRICAL CHARACTERISTICS	COOLING COIL GPM	COOLING COIL FD	CHILLED WATER		COIL COOLING CAPACITY MBH	HEATING COIL GPM	HOT WATER		REMARKS		
								FLOW	TEMP.			FLOW	TEMP.			
BCU-1,2	TRANE	BCHC054	2000	0.5	120/1	7.2	14.0	2.0	44	54	70.0	4.0	180	150	60.0	1, 2, 3, 4

REMARKS LEGEND:  
 1 - PROVIDE FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN COLLARS.  
 2 - PROVIDE PRE-SWIRL FAN ARRANGEMENT.  
 3 - PROVIDE (6) ROW COOLING COIL, (1) ROW HEATING COIL, FLAT FILTER RACK AND 1" THROW-AWAY FILTER.  
 4 - ALL CONTROLS AND VALVES TO BE FIELD MOUNTED.

CABINET UNIT HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL NUMBER	NOV. CFM	E.A.T.	ELECTRICAL CHARACTERISTICS	HEATING MBH	HEATING GPM	HEATING W/FD	REMARKS	
										COIL
CUH-1	TRANE	FFNB0801ACCC-CB2M000D	800	70	120V, 1Ø, 120W	56.8	4.0	5.0	1,2,3,4,5,6,7	
CUH-2	TRANE	FFNB0401ACCC-CB2M000D	400	70	120V, 1Ø, 100W	29.3	2.0	5.5	1,2,3,4,5,6,7	

REMARKS LEGEND:  
 1 - 180°F EWT, 30°ΔT  
 2 - LOCAL THERMOSTAT TO CYCLE FAN UPON A CALL FOR HEAT.  
 3 - 3-ROW COIL 144 FPF.  
 4 - STANDARD COLOR TO BE SELECTED BY ARCHITECT.  
 5 - PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.  
 6 - PROVIDE FRONT STAMPED DOOR.  
 7 - ALL CONTROLS AND VALVES TO BE FIELD MOUNTED.

VAV BOX SCHEDULE												
MARK	MANUFACTURER	MODEL	INLET SIZE (")	COOLING CFM	HEATING CFM	MIN. CFM	N.C. MAX	COIL*		MAX. WATER PRESS. DROP W.C.	REMARKS	
								MBH	GPM			
V101	TRANE	VCWF	12	1600	800	235	25	25.0	2.5	10	1, 2, 3, 4	
V102	TRANE	VCWF	10	1075	525	165	25	25.0	2.5	10	1, 2, 3, 4	
V103	TRANE	VCWF	12	1500	750	235	25	40.0	4.0	10	1, 2, 3, 4	
V104	TRANE	VCWF	14	2400	1200	320	25	50.0	5.0	10	1, 2, 3, 4	
V105	TRANE	VCWF	14	2400	1200	320	25	50.0	5.0	10	1, 2, 3, 4	
V106	TRANE	VCWF	12	1750	875	235	25	30.0	3.0	10	1, 2, 3, 4	
V107	TRANE	VCWF	12	1750	875	235	25	30.0	3.0	10	1, 2, 3, 4	
V108	TRANE	VCWF	12	1750	875	235	25	30.0	3.0	10	1, 2, 3, 4	
V109	TRANE	VCWF	8	600	300	110	25	10.0	1.0	10	1, 2, 3, 4	
V110	TRANE	VCWF	6	450	225	60	25	15.0	1.5	10	1, 2, 3, 4	
V111	TRANE	VCWF	5	100	50	40	25	5.0	0.5	10	1, 2, 3, 4	
V201	TRANE	VCWF	10	1250	625	165	25	25.0	2.5	10	1, 2, 3, 4	
V202	TRANE	VCWF	10	1250	625	165	25	25.0	2.5	10	1, 2, 3, 4	
V203	TRANE	VCWF	5	250	125	40	25	15.0	1.5	10	1, 2, 3, 4	
V204	TRANE	VCWF	6	350	175	60	25	20.0	2.0	10	1, 2, 3, 4	
V205	TRANE	VCWF	5	250	125	40	25	15.0	1.5	10	1, 2, 3, 4	
V206	TRANE	VCWF	5	250	125	40	25	5.0	0.5	10	1, 2, 3, 4	
V207	TRANE	VCWF	5	250	125	40	25	5.0	0.5	10	1, 2, 3, 4	
V208	TRANE	VCWF	5	125	65	40	25	5.0	0.5	10	1, 2, 3, 4	
V209	TRANE	VCWF	5	125	65	40	25	5.0	0.5	10	1, 2, 3, 4	
V210	TRANE	VCWF	6	400	200	60	25	10.0	1.0	10	1, 2, 3, 4	
V211	TRANE	VCWF	6	400	200	60	25	10.0	1.0	10	1, 2, 3, 4	
V212	TRANE	VCWF	8	600	300	110	25	10.0	1.0	10	1, 2, 3, 4	
V213	TRANE	VCWF	14	1875	940	320	25	40.0	4.0	10	1, 2, 3, 4	
V214	TRANE	VCWF	14	1875	940	320	25	40.0	4.0	10	1, 2, 3, 4	
V215	TRANE	VCWF	8	800	400	165	25	15.0	2.0	10	1, 2, 3, 4	

REMARKS LEGEND:  
 1 - PROVIDE WITH 1-ROW HEATING COIL.  
 2 - EWT=180°F, EAT=55°F.  
 3 - VAV BOX SUBMITTAL MUST INCLUDE COIL AIR PRESSURE DROP AT MAX. CFM, WATER PRESSURE DROP, AND HEATING DISCHARGE AIR TEMP AT LISTED CFM.  
 4 - ALL CONTROLS SHALL BE FACTORY MOUNTED.

PROJECT NO 9929.03  
 DATE OCT 2003  
 DRAWN BY CAD  
 REVISION

The Ken Ebert Design Group  
 Architects and Planning Consultants  
 115 Westport Drive  
 Manhattan, Kansas 66502  
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Wamego High School Improvements  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

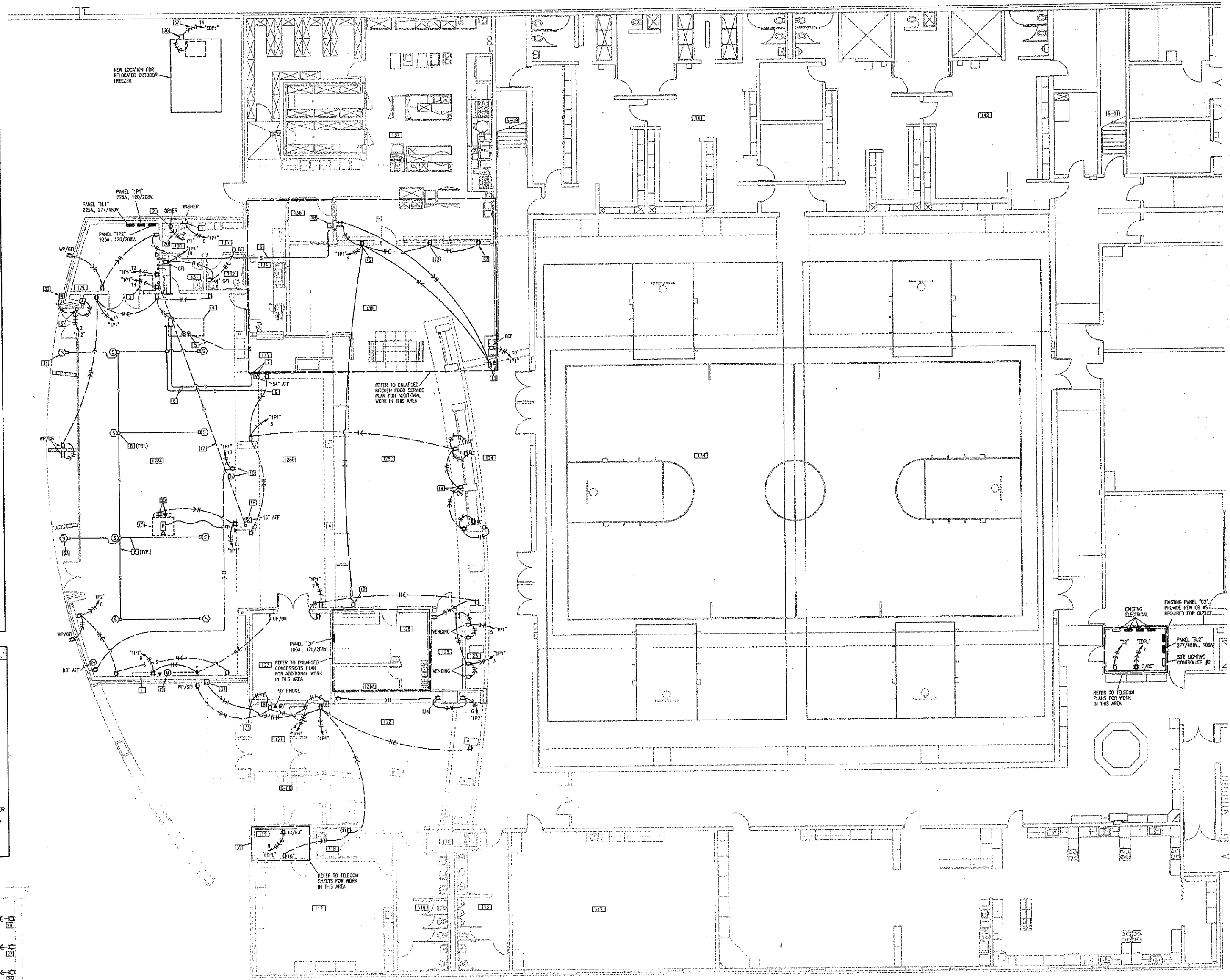
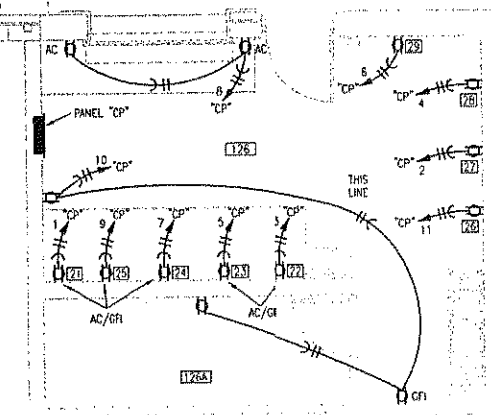
SHEET  
 M4.5  
 MECHANICAL SCHEDULES

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 Latimer, Sommers & Associates, P.A., Engineers  
 3039 SW Sumnerfield Drive, Suite A  
 Topeka, KS 66614-2972  
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M4.5.dwg 06/10/03/03 BKL

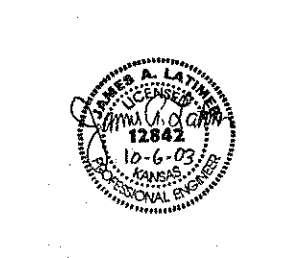
- LEGEND:**
1. CONNECT TO RECEPTACLE FURNISHED WITH WASHER-SERVICE BOX.
  2. NEMA 10-50R 50A, 120/208V, 1Ø, 3W, RECEPTACLE, VERIFY WITH OWNER.
  3. CAFE PASS-THRU SOUND RACK BY SOUND SYSTEM VENDOR (NIC).
  4. CASHIER'S STAND LOCATION, VERIFY.
  5. FROM DATA FLOOR BOX ROUTE 3/4" C. BELOW SLAB TO MAIN CASHIER FLOOR BOXES.
  6. 3/4" SOUND SYSTEM CONDUITS WITH PULL STRING OVERHEAD TIGHT TO STRUCTURE.
  7. SINGLE GANG VOLUME CONTROL BACKBOX ROUGH-IN.
  8. CEILING MOUNTED PENDANT TIE SPEAKER DROPS, PROVIDE OCTAGON BOX TIGHT TO STRUCTURE, VERIFY FINAL LOCATION WITH SOUND VENDOR, COORDINATE WITH DUCTWORK AND LIGHTING.
  9. STUB 3/4" SOUND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR NORTH CAFE SPEAKER ZONE (SPEAKERS NOT SHOWN).
  10. MOUNT CATV AND OUTLET IN FACE OF SOFFIT, COORDINATE LOCATION WITH DUCTWORK AND OWNER.
  11. DROP-DOWN PROJECTION SCREEN, MOUNT ON WALL.
  12. SWITCHED RECEPTACLE IN BULHEAD ABOVE FOR LIGHTED SIGNAGE BY OTHERS.
  13. SWITCHED RECEPTACLE AND DATA IN FACE OF CAFE ENTRANCE BULHEAD FOR LIGHTED SIGNAGE AND/OR LED READER BOARD.
  14. CATV AND POWER IN FACE OF COLUMN BELOW SOFFIT, VERIFY ELEVATION WITH OWNER.
  15. PROJECTION SYSTEM AND A/V EQUIPMENT ON CART (NIC).
  16. SOUND SYSTEM INTERFACE RECEPTACLE, PROVIDE 4-SQUARE BOX WITH MGR. RING, PLATE, DEVICES, AND JACKS BY SOUND VENDOR.
  17. 1" C. BELOW SLAB BACK TO SOUND CABINET.
  18. 4-SQUARE BOX SOUND ROUGH-IN, PLATE AND DEVICES BY OTHERS (TYP.).
  19. ROUTE 3/4" C. FROM MIC ROUGH-IN TO SOUND RACK.
  20. (3) #8 & (1) #10 GRD. IN 3/4" C.
  21. MICROWAVE, MOUNT ABOVE SHELF TO SIDE.
  22. POPCORN POPPER.
  23. CROCK POT/COFFEE POT.
  24. NACHO CHEESE/PRETZEL WARMER.
  25. HOT DOG ROTISSERIE.
  26. REFRIGERATOR.
  27. REFRIGERATOR/FREEZER.
  28. REFRIGERATOR.
  29. SLUSHY MACHINE.
  30. CEILING RECEPTACLE AND DATA FOR FUTURE CEILING PROJECTOR.
  31. ADA POWER DOOR ACTUATOR (TYP.).
  32. ADA PUSHBUTTON OPERATOR, 48" TO TOP MAXIMUM, VERIFY WITH ARCHITECTURAL (TYP.).
  33. SAME AS 8, ONLY MOUNT BOX IN SOFFIT FOR OUTDOOR SPEAKER.
  34. MOUNT RECEPTACLE 12" ABOVE BASE OF DISPLAY CASE (TYP.).
  35. E/C TO PROVIDE 3/4" PLYWOOD BACKBOARD FULL WIDTH AND HEIGHT OF WALL, LESS 6" AT TOP AND BOTTOM.
  36. 60A. NF NEMA 3R DISCONNECT SWITCH, 208V., 3Ø.
  37. (3) #8 & (1) #10 GRD. IN 1/4" C.

- NOTES:**
1. NO ELECTRICAL PANELS SHALL BE INSTALLED BELOW PIPING, DUCTWORK, OR MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  2. FIELD COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL TO MAINTAIN NEC CLEARANCES.
  3. REFER TO SPECIAL SYSTEMS PLANS FOR ADDITIONAL WORK AND ROUGH-IN REQUIREMENTS.
  4. ALL CONDUCTORS SHALL BE #12 THRU IN 1/2" C. UNLESS NOTED OTHERWISE.
  5. REFER TO BOILER SCHEMATIC AND SHUTDOWN DETAILS FOR COMPONENT WIRING.
  6. VERIFY FINAL LOCATION AND ELEVATION OF ALL WALL-MOUNTED EQUIPMENT, OUTLETS, DATA AND PHONE WITH CASEWORK AND ARCHITECTURAL, CONFIRM DEDICATED OUTLETS I.E. COPIERS WITH OWNER.
  7. REFER TO TELECOM SHEETS FOR TC DEVICE CONDUIT/RECOVERY REQUIREMENTS AND ROUTING.
  8. SOUND SYSTEM DEVICES, WIRING BY OTHERS (NIC) E.C. TO PROVIDE ROUGH-IN ONLY.



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DATE OCT 2003  
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REVISION

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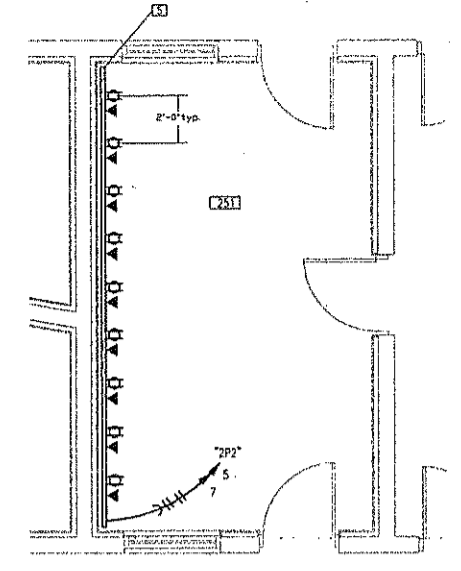
**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**SHEET**  
**E1.1**  
FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST - POWER

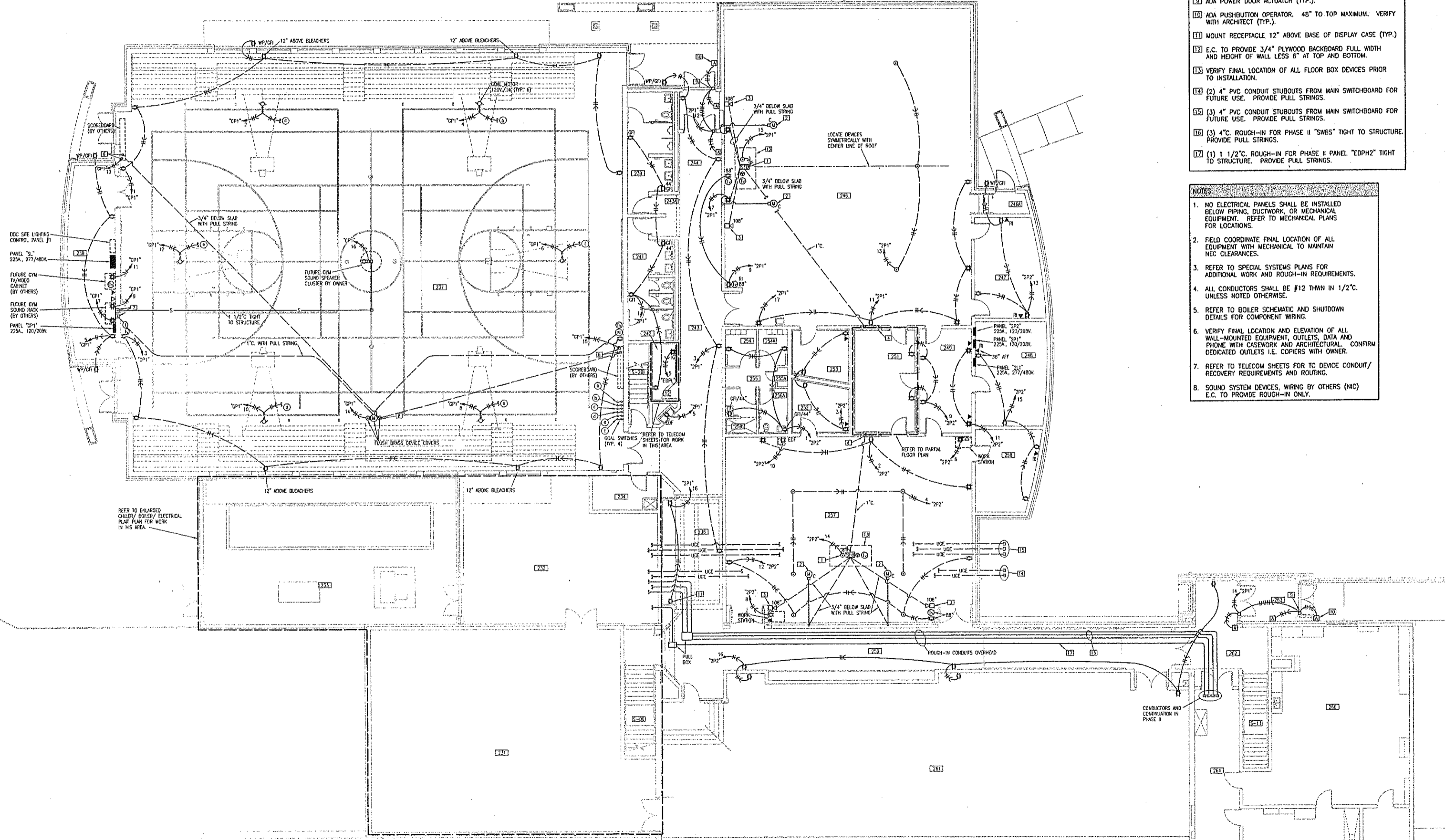
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1X this - What does your notes say?

PROJECT NO 4428.03  
DATE OCT 2003  
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**PARTIAL SECOND FLOOR PLAN**  
1/4"=1'-0"  
POWER  
NORTH



- LEGEND:**
- [1] SOUND SYSTEM FLOOR BOX, MYSTERY ELECTRONICS MODEL 86-2000 BACKBOX IN FLOOR TO ACCEPT FMCA SERIES TRIM COVER AND DEVICE INSERTS FURNISHED BY SOUND SYSTEM VENDOR. DUPLEX OUTLET TO BE FURNISHED WITH TRIM AND WIRED BY E.C.
  - [2] CEILING MC ROUGH-IN. PROVIDE CEILING JB FOR PENDANT CEILING SPEAKER ROUGH-IN. SPEAKERS BY OTHERS. ROUTE 3/4" EXPOSED AT CEILING AND CONCEALED IN WALL AND SLAB TO SOUND SYSTEM FLOOR BOX.
  - [3] WALL SPEAKER ROUGH-IN. PROVIDE 1-GANG BOX WITH 3/4" C BACK TO SOUND SYSTEM FLOOR BOX.
  - [4] SOUND SYSTEM THRU-WALL JACK PANEL. PROVIDE 6-GANG THRU-WALL BOX FOR 8" CONCRETE BLOCK WALL SPACE AND EXTENSION RINGS TO ACCOMMODATE ACOUSTICAL PANELING. PROVIDE 6-GANG STAINLESS STEEL COVER ON EACH SIDE FOR JACK INSTALLATION AND THRU-WALL WIRING (DEVICES AND WIRING BY SOUND VENDOR.) 1" C TO ENTER ENTER BOTTOM OF PANEL/BOX FROM INSIDE BLOCK WALL FROM SOUND SYSTEM FLOOR BOX. THOMAS & BETTS CSM-4S OR EQUAL.
  - [5] THOMAS & BETTS OMNILINK MODEL HM600 LARGE NON-METALLIC 2-COMPARTMENT 2-PIECE SURFACE RACEWAY AT 16" A.F.F. PROVIDE DUPLEX RECEPTABLES AND VELOCOM JACKS AT 2'-0" O.C. GRAY RACEWAY AND JACK COVERS.
  - [6] VERIFY SCOREBOARD POWER, SIGNALING REQUIREMENTS AND ELEVATION WITH VENDOR/OWNER.
  - [7] CONCEAL SOUND SYSTEM CONDUITS IN MASONRY TO 3 1/2" DEEP 4-SQUARE BACK BOXES 16" A.F.F. TO BOTTOM. PROVIDE BLANK STAINLESS STEEL COVERS.
  - [8] SCORER'S JACKS AND CABLING BY OTHERS.
  - [9] ADA POWER DOOR ACTUATOR (TYP.).
  - [10] ADA PUSHBUTTON OPERATOR. 48" TO TOP MAXIMUM. VERIFY WITH ARCHITECT (TYP.).
  - [11] MOUNT RECEPTACLE 12" ABOVE BASE OF DISPLAY CASE (TYP.).
  - [12] E.C. TO PROVIDE 3/4" PLYWOOD BACKBOARD FULL WIDTH AND HEIGHT OF WALL LESS 6" AT TOP AND BOTTOM.
  - [13] VERIFY FINAL LOCATION OF ALL FLOOR BOX DEVICES PRIOR TO INSTALLATION.
  - [14] (2) 4" PVC CONDUIT STUBOUTS FROM MAIN SWITCHBOARD FOR FUTURE USE. PROVIDE PULL STRINGS.
  - [15] (3) 4" PVC CONDUIT STUBOUTS FROM MAIN SWITCHBOARD FOR FUTURE USE. PROVIDE PULL STRINGS.
  - [16] (3) 4" C ROUGH-IN FOR PHASE II "SWBS" TIGHT TO STRUCTURE. PROVIDE PULL STRINGS.
  - [17] (1) 1 1/2" C ROUGH-IN FOR PHASE II PANEL "EDPH2" TIGHT TO STRUCTURE. PROVIDE PULL STRINGS.

- NOTES:**
1. NO ELECTRICAL PANELS SHALL BE INSTALLED BELOW PIPING, DUCTWORK, OR MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  2. FIELD COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL TO MAINTAIN NEC CLEARANCES.
  3. REFER TO SPECIAL SYSTEMS PLANS FOR ADDITIONAL WORK AND ROUGH-IN REQUIREMENTS.
  4. ALL CONDUCTORS SHALL BE #12 THIN IN 1/2" C UNLESS NOTED OTHERWISE.
  5. REFER TO BOILER SCHEMATIC AND SHUTDOWN DETAILS FOR COMPONENT WIRING.
  6. VERIFY FINAL LOCATION AND ELEVATION OF ALL WALL-MOUNTED EQUIPMENT, OUTLETS, DATA AND PHONE WITH CASEWORK AND ARCHITECTURAL. CONFIRM DEDICATED OUTLETS I.E. COPIERS WITH OWNER.
  7. REFER TO TELECOM SHEETS FOR TC DEVICE CONDUIT/RECOVERY REQUIREMENTS AND ROUTING.
  8. SOUND SYSTEM DEVICES, WIRING BY OTHERS (NIC) E.C. TO PROVIDE ROUGH-IN ONLY.

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**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
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**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
1/8"=1'-0"  
POWER  
NORTH

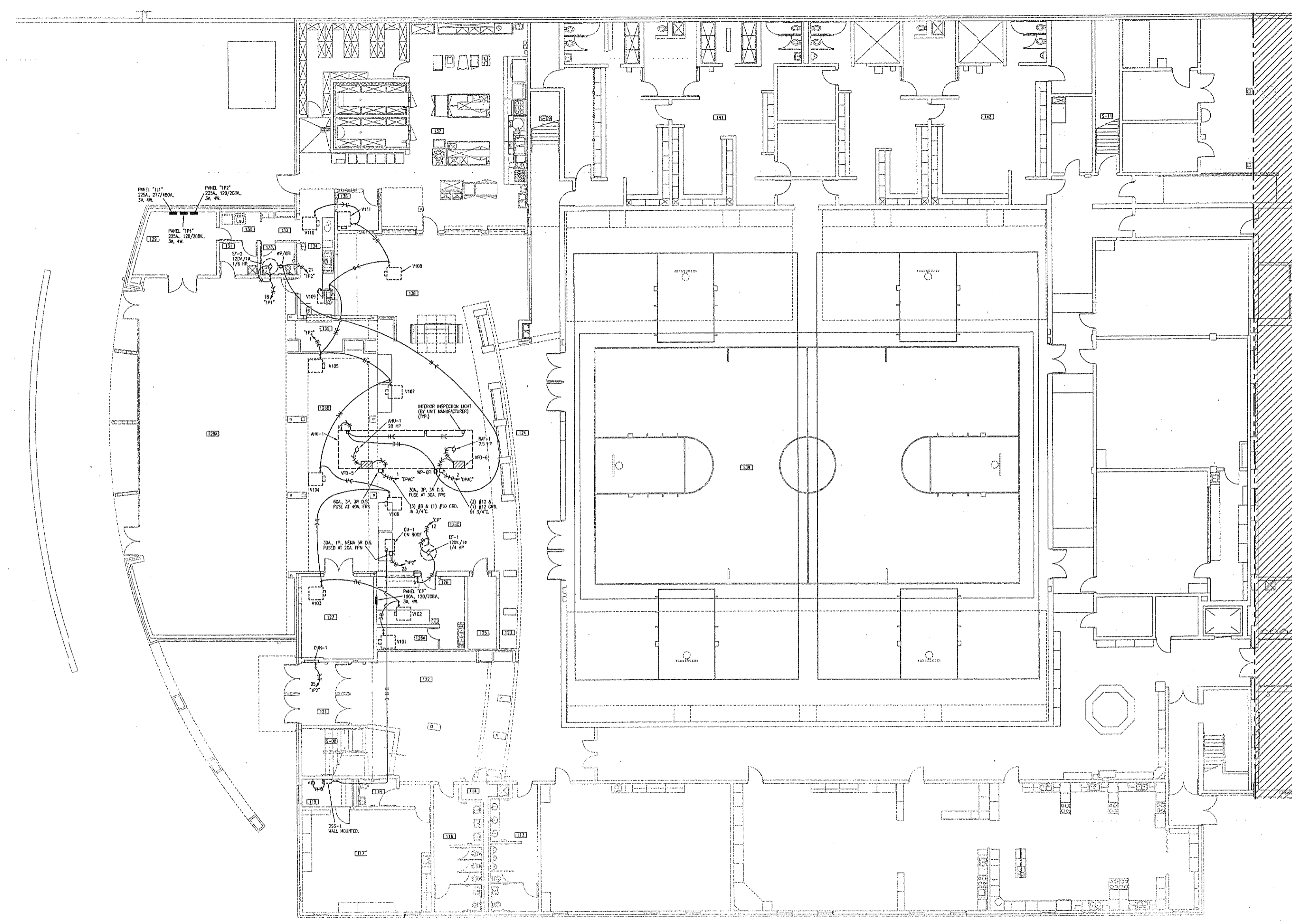
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**SHEET**  
**E1.2**  
SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST - POWER

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**Wamego High School Improvements**  
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**FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8"=1'-0" HVAC POWER

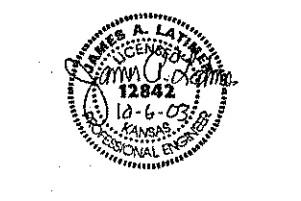


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**SHEET**  
**E1.3**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST -  
 HVAC POWER

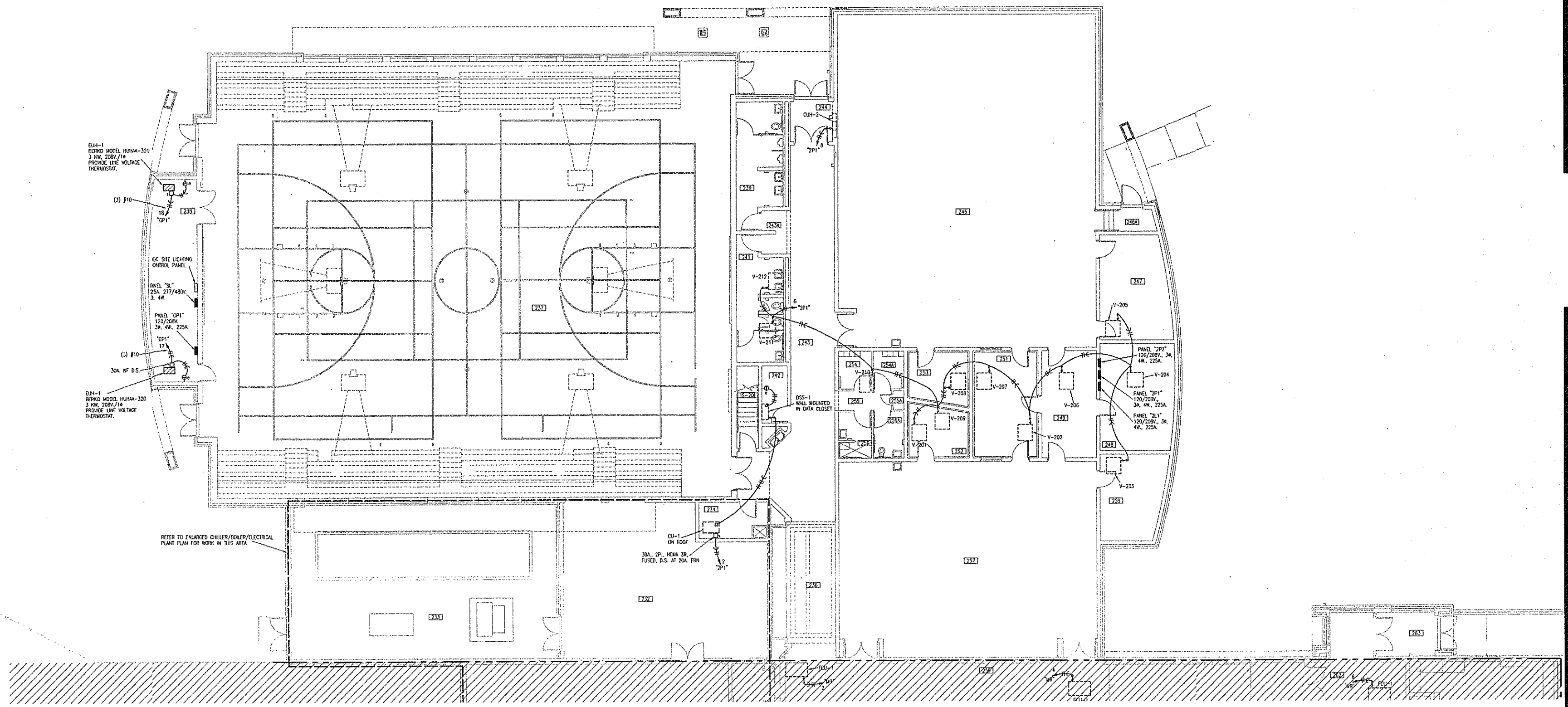
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 Phase I**  
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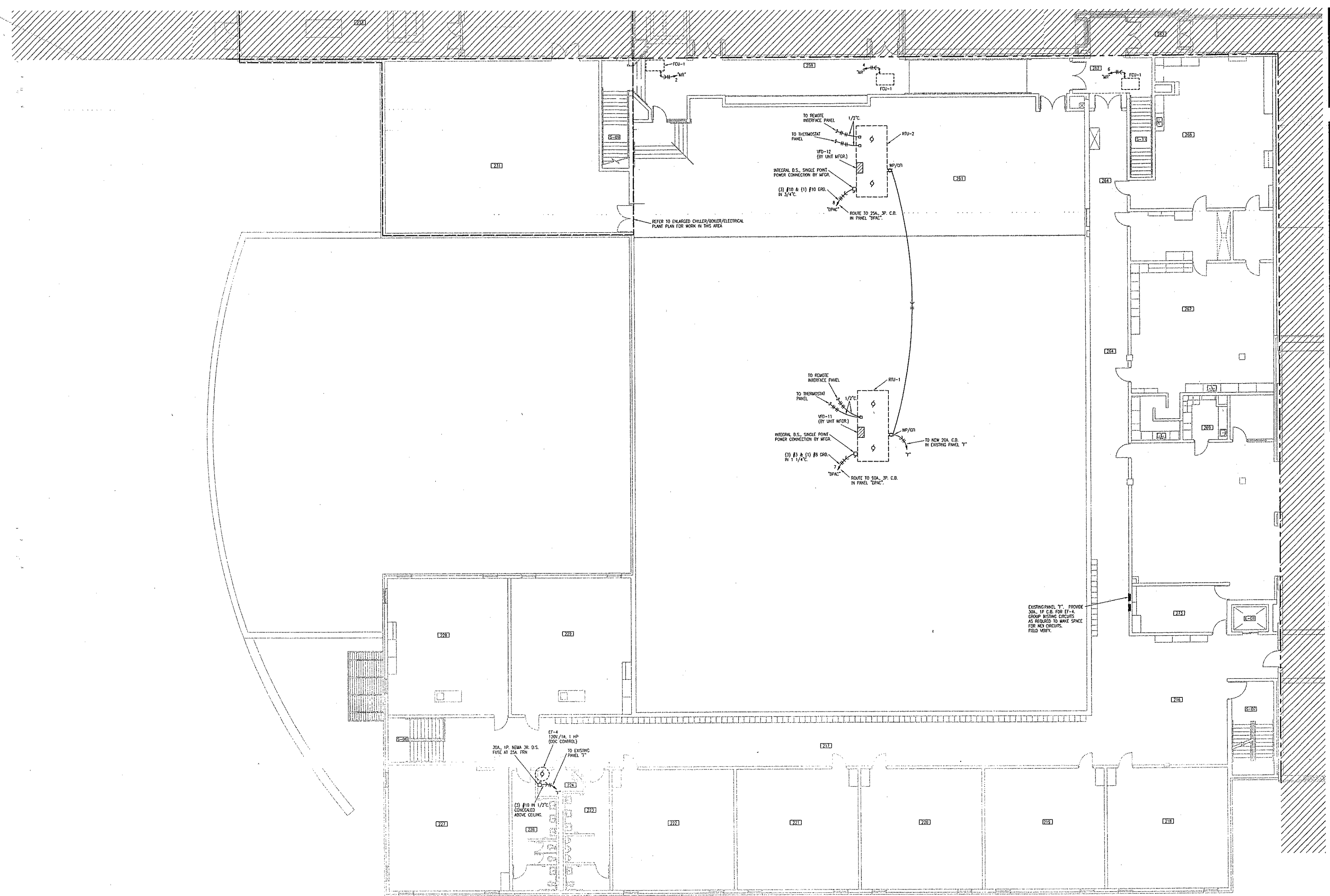
**SHEET  
 E1.4**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTHWEST -  
 HVAC POWER



**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8" = 1'-0" HVAC POWER



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**Wamego High School Improvements**  
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**SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8"=1'-0" HVAC POWER



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**SHEET**  
**E1.5**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST -  
 HVAC POWER

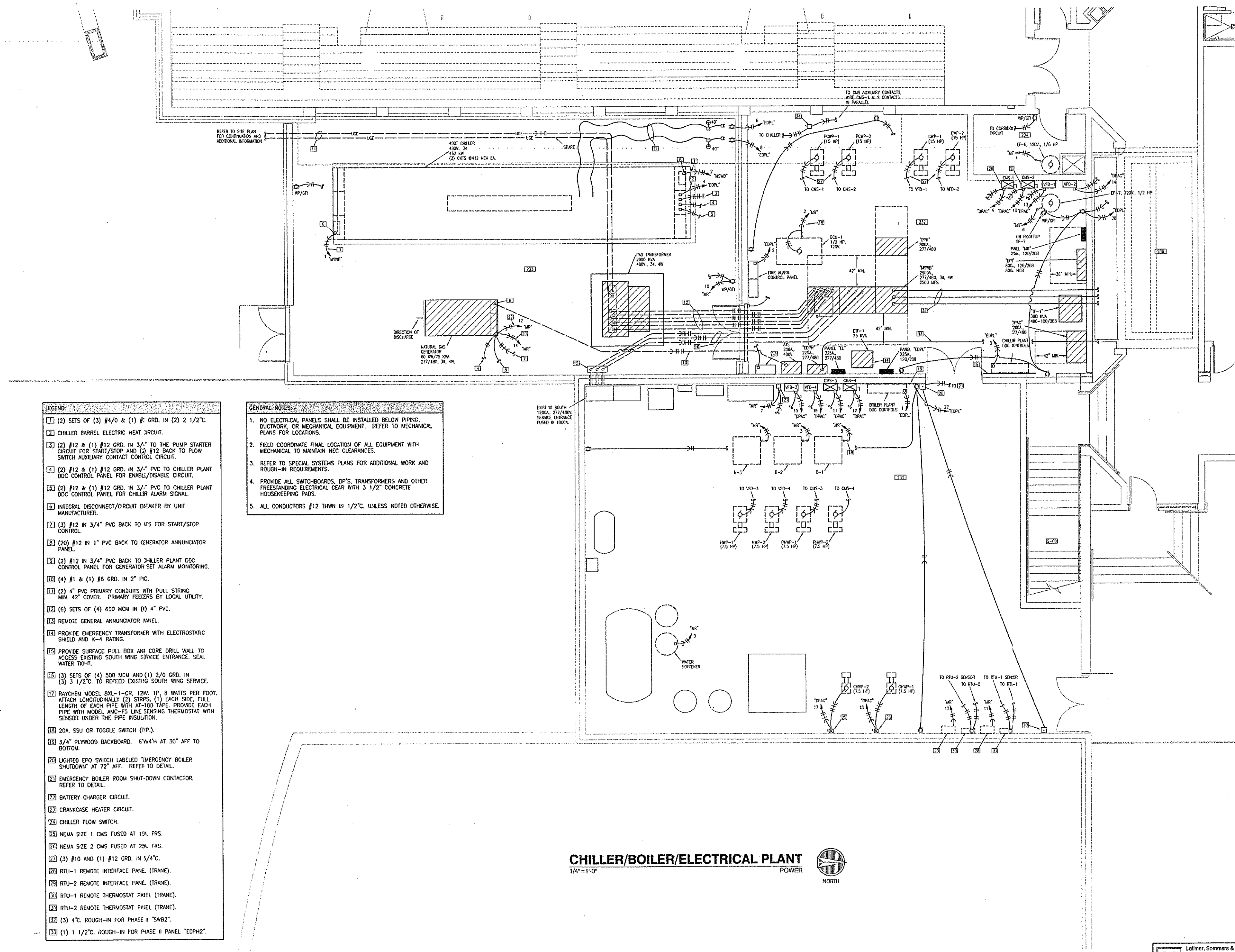
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**Wamego High School Improvements**  
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**SHEET**  
**E1.6**  
 CHILLER/BOILER/ELECTRICAL PLANT - POWER



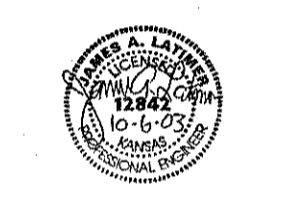
- LEGEND:**
- 1) (2) SETS OF (3) #4/0 & (1) #12 GRD. IN (2) 2 1/2" C.
  - 2) CHILLER BARREL ELECTRIC HEAT CIRCUIT.
  - 3) (2) #12 & (1) #12 GRD. IN 3/4" PVC TO THE PUMP STARTER CIRCUIT FOR START/STOP AND (3) #12 BACK TO FLOW SWITCH AUXILIARY CONTACT CONTROL CIRCUIT.
  - 4) (2) #12 & (1) #12 GRD. IN 3/4" PVC TO CHILLER PLANT DDC CONTROL PANEL FOR ENABLE/DISABLE CIRCUIT.
  - 5) (2) #12 & (1) #12 GRD. IN 3/4" PVC TO CHILLER PLANT DDC CONTROL PANEL FOR CHILLER ALARM SIGNAL.
  - 6) INTEGRAL DISCONNECT/CIRCUIT BREAKER BY UNIT MANUFACTURER.
  - 7) (3) #12 IN 3/4" PVC BACK TO ITS FOR START/STOP CONTROL.
  - 8) (20) #12 IN 1" PVC BACK TO GENERATOR ANNUNCIATOR PANEL.
  - 9) (2) #12 IN 3/4" PVC BACK TO CHILLER PLANT DDC CONTROL PANEL FOR GENERATOR SET ALARM MONITORING.
  - 10) (4) #1 & (1) #6 GRD. IN 2" PVC.
  - 11) (2) 4" PVC PRIMARY CONDUITS WITH PULL STRING MIN. 42" COVER. PRIMARY FEEDERS BY LOCAL UTILITY.
  - 12) (6) SETS OF (4) 600 MCM IN (1) 4" PVC.
  - 13) REMOTE GENERAL ANNUNCIATOR PANEL.
  - 14) PROVIDE EMERGENCY TRANSFORMER WITH ELECTROSTATIC SHIELD AND K-4 RATING.
  - 15) PROVIDE SURFACE PULL BOX AND CORE DRILL WALL TO ACCESS EXISTING SOUTH WING SERVICE ENTRANCE. SEAL WATER TIGHT.
  - 16) (3) SETS OF (4) 500 MCM AND (1) 2/0 GRD. IN (3) 3 1/2" C. TO REFEED EXISTING SOUTH WING SERVICE.
  - 17) RAYCHEM MODEL BXL-1-CR, 12W, 1P, 0 WATTS PER FOOT. ATTACH LONGITUDINALLY (2) STRIPS, (1) EACH SIDE. FULL LENGTH OF EACH PIPE WITH AT-180 TAPE. PROVIDE EACH PIPE WITH MODEL AMC-F5 LINE SENSING THERMOSTAT WITH SENSOR UNDER THE PIPE INSULATION.
  - 18) 20A, 55J OR TOGGLE SWITCH (TIP).
  - 19) 3/4" PLYWOOD BACKBOARD, 6"x4" H AT 30" AFF TO BOTTOM.
  - 20) LIGHTED EPO SWITCH LABELED "EMERGENCY BOILER SHUTDOWN" AT 72" AFF. REFER TO DETAIL.
  - 21) EMERGENCY BOILER ROOM SHUT-DOWN CONTACTOR. REFER TO DETAIL.
  - 22) BATTERY CHARGER CIRCUIT.
  - 23) CRANKCASE HEATER CIRCUIT.
  - 24) CHILLER FLOW SWITCH.
  - 25) NEMA SIZE 1 CMS FUSED AT 15A, FRS.
  - 26) NEMA SIZE 2 CMS FUSED AT 25A, FRS.
  - 27) (3) #10 AND (1) #12 GRD. IN 3/4" C.
  - 28) RTU-1 REMOTE INTERFACE PANE. (TRANE).
  - 29) RTU-2 REMOTE INTERFACE PANE. (TRANE).
  - 30) RTU-1 REMOTE THERMOSTAT PANE. (TRANE).
  - 31) RTU-2 REMOTE THERMOSTAT PANE. (TRANE).
  - 32) (3) 4" C. ROUGH-IN FOR PHASE II "SWB2".
  - 33) (1) 1 1/2" C. ROUGH-IN FOR PHASE II PANEL "EDPH2".

- GENERAL NOTES:**
1. NO ELECTRICAL PANELS SHALL BE INSTALLED BELOW PIPING, DUCTWORK, OR MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  2. FIELD COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL TO MAINTAIN NEC CLEARANCES.
  3. REFER TO SPECIAL SYSTEMS PLANS FOR ADDITIONAL WORK AND ROUGH-IN REQUIREMENTS.
  4. PROVIDE ALL SWITCHBOARDS, DP'S, TRANSFORMERS AND OTHER FREESTANDING ELECTRICAL GEAR WITH 3 1/2" CONCRETE HOUSEKEEPING PADS.
  5. ALL CONDUCTORS #12 THWN IN 1/2" C. UNLESS NOTED OTHERWISE.

**CHILLER/BOILER/ELECTRICAL PLANT**  
 1/4" = 1'-0"  
 POWER  
 NORTH



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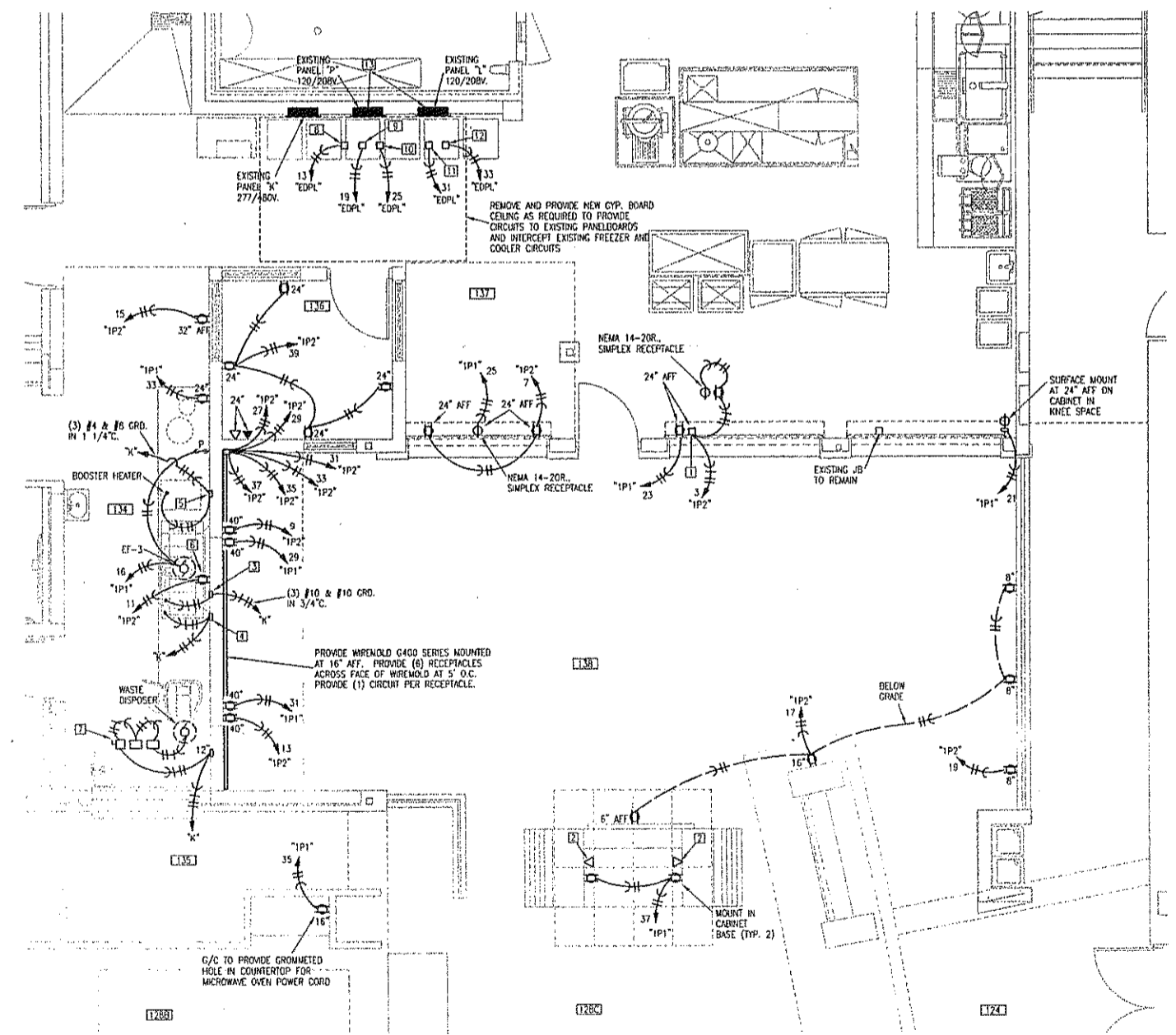


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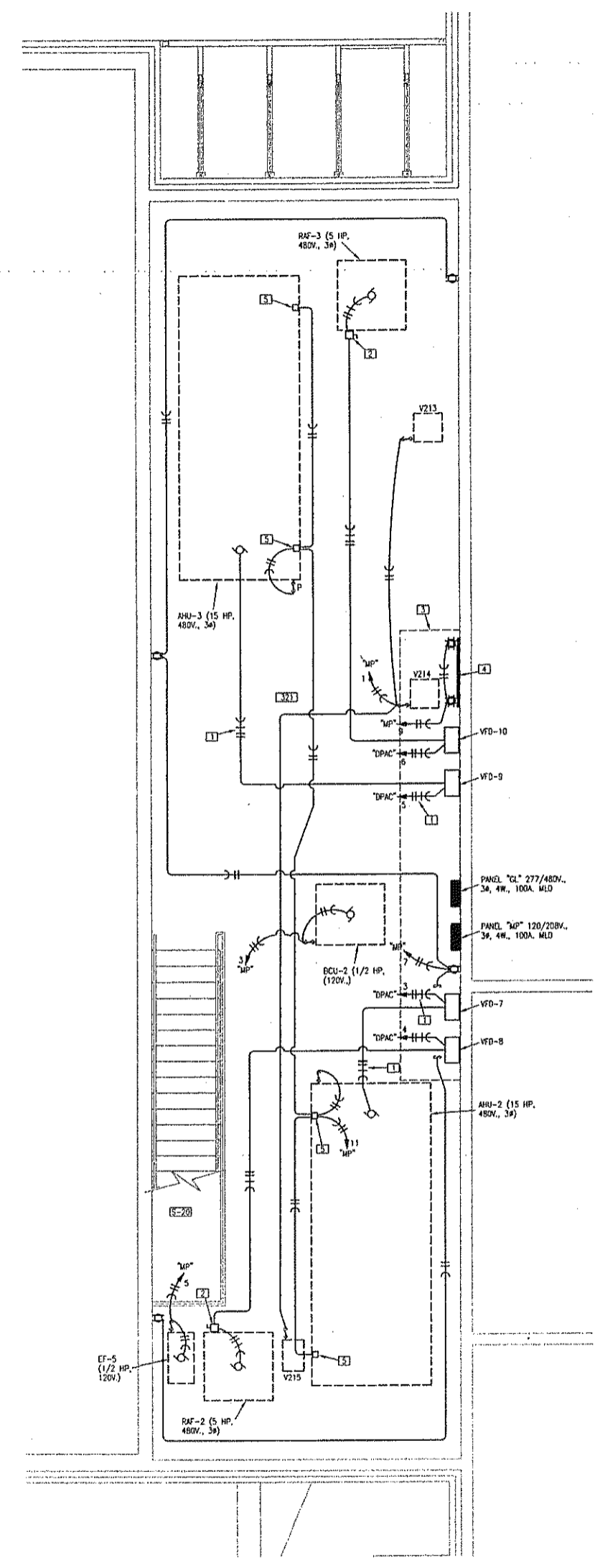
**SHEET E1.7**  
 MEZZANINE AND KITCHEN PLANS - POWER

- LEGEND (PARTIAL FLOOR PLAN)**
- PROVIDE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FROM JUNCTION BOX (JB) AT WALL TO DUPLEX AND SIMPLEX RECEPTACLE INTERIOR TO UNIT. ROUTE CONDUIT INSIDE UNIT AND SURFACE MOUNT RECEPTABLES.
  - PROVIDE DATA OUTLET MOUNTED IN CABINET BASE TO A DOUBLE GANG-BACKBOX WITH 3/4" PLASTER RING AND (2) 3/4" CONDUITS PER OUTLET ROUTED TO ABOVE ACCESSIBLE CEILING. REFER TO TELECOMMUNICATIONS PLANS FOR ADDITIONAL REQUIREMENTS AND ROUTING.
  - PROVIDE NEW 480V. CIRCUIT FROM EXISTING PANEL "K" AND EXISTING CIRCUIT BREAKER ORIGINALLY FEEDING DISHWASHER TANK HEATER TO NEW JB IN NEW WALL. PROVIDE LIQUID TIGHT, FLEXIBLE METAL CONDUIT AND FINAL CONNECTION FROM JUNCTION BOX TO TANK HEATER AS SHOWN ON PLAN. EXISTING DISHWASHER AND TANK HEATER ARE TO BE RELOCATED TO POSITION SHOWN ON PLANS. MOUNT JB AT 18" AFF.
  - PROVIDE NEW 480V. CIRCUIT FROM EXISTING PANEL "K" AND EXISTING CIRCUIT BREAKER ORIGINALLY FEEDING DISHWASHER MOTORS TO NEW JB IN NEW WALL. PROVIDE LIQUID TIGHT, FLEXIBLE METAL CONDUIT AND FINAL CONNECTION FROM JB TO DISHWASHER MOTOR CONTROL PANEL AS SHOWN ON PLAN. MOUNT JB AT 12" AFF. EXISTING DISHWASHER IS TO BE RELOCATED TO POSITION SHOWN ON PLANS.
  - PROVIDE NEW 480V. CIRCUIT FROM EXISTING PANEL "K" AND EXISTING CIRCUIT BREAKER ORIGINALLY FEEDING DISHWASHER BOOSTER HEATER TO NEW JB IN NEW WALL. PROVIDE LIQUID TIGHT, FLEXIBLE METAL CONDUIT AND FINAL CONNECTION FROM JB TO DISHWASHER BOOSTER HEATER AS SHOWN ON PLAN. MOUNT JB AT 12" AFF. EXISTING DISHWASHER AND BOOSTER HEATER ARE TO BE RELOCATED TO POSITION SHOWN ON PLANS.
  - PROVIDE DUPLEX RECEPTACLE AT 60" AFF. FOR DISHWASHER DETERGENT DISPENSER. EXISTING DISHWASHER AND DETERGENT DISPENSER ARE TO BE RELOCATED TO POSITION SHOWN ON PLANS.
  - PROVIDE NEW 480V. CIRCUIT FROM EXISTING PANEL "K" AND EXISTING CIRCUIT BREAKER ORIGINALLY FEEDING DISPOSAL TO NEW JB IN NEW WALL. PROVIDE LIQUID TIGHT, FLEXIBLE METAL CONDUIT AND FINAL CONNECTION FROM JB TO DISCONNECT SWITCH, CONTROL PANEL AND DISPOSAL MOTOR AS SHOWN ON PLAN. MOUNT JB AT 12" AFF. EXISTING DISPOSAL, DISCONNECT SWITCH AND CONTROL PANEL ARE TO BE RELOCATED TO POSITION SHOWN ON PLAN.
  - INTERCEPT EXISTING FREEZER CONDENSING UNIT CIRCUIT AT PANEL "P" AND EXTEND TO NEW EMERGENCY PANEL.
  - INTERCEPT EXISTING FREEZER DEFROST HEATER CIRCUIT AT PANEL "P" AND EXTEND TO NEW EMERGENCY PANEL.
  - INTERCEPT EXISTING REFRIGERATOR CONDENSING UNIT CIRCUIT AT PANEL "P" AND EXTEND TO NEW EMERGENCY PANEL.
  - INTERCEPT EXISTING FREEZER LIGHTS AND DOOR HEATER CIRCUIT AT PANEL "L" AND EXTEND TO NEW EMERGENCY PANEL.
  - INTERCEPT EXISTING COOLER LIGHTS AND DOOR HEATER CIRCUIT AT PANEL "L" AND EXTEND TO NEW EMERGENCY PANEL.
  - REMOVE CIRCUIT WIRING TO POINT OF INTERCEPTION AND LABEL FORMER FREEZER AND COOLER CIRCUITS AS SPARE.

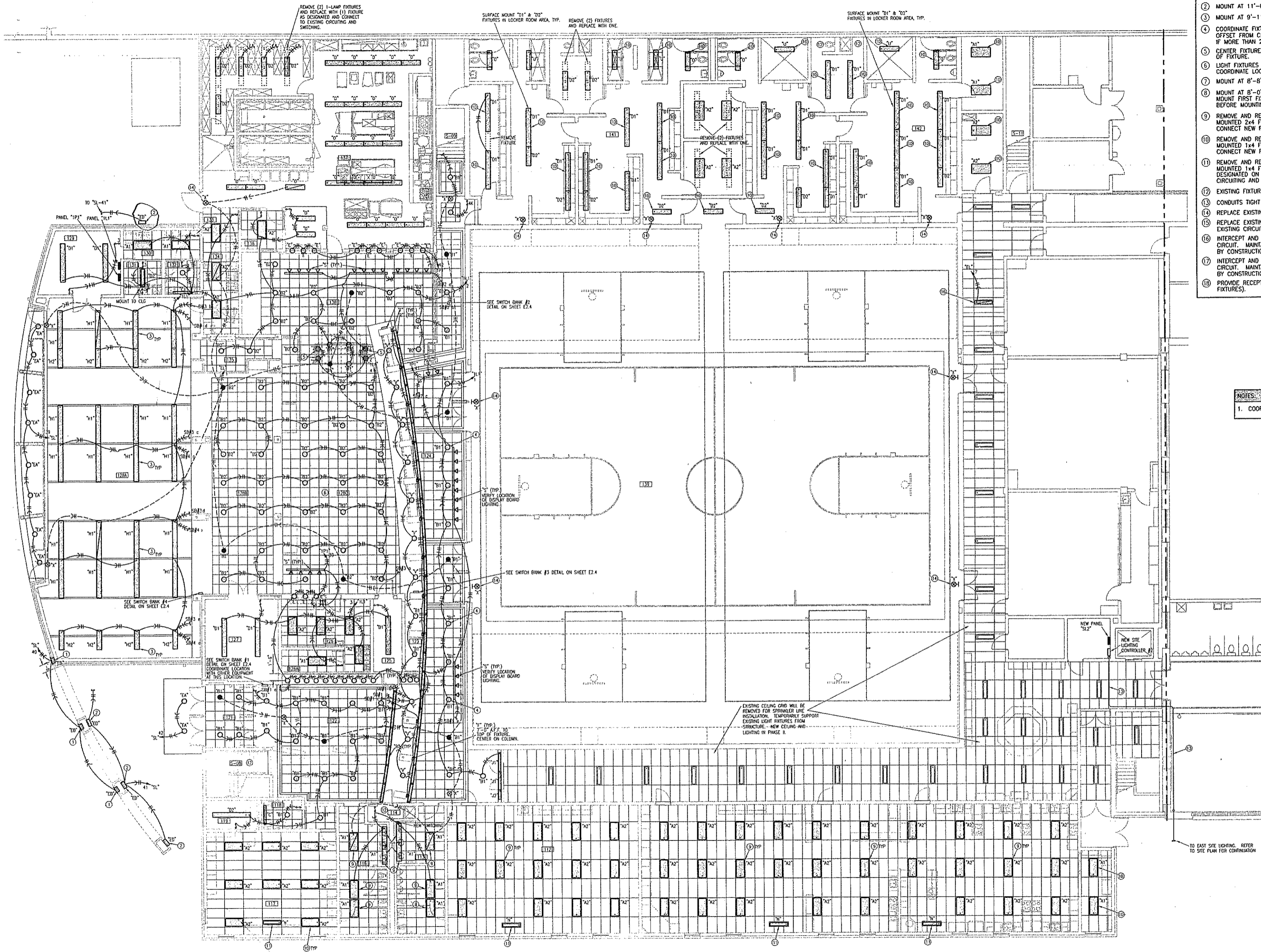
- LEGEND**
- (3) #10 & (1) #12 GRD. IN 3/4"C.
  - 30A., 3P., 480V. DISCONNECT SWITCH, FUSE AT 9A. FRG.
  - MAINTAIN NEC CLEARANCES ACCESS IN THIS AREA.
  - DDC CONTROL BACKBOARD, 4'x4' PLYWOOD BACKBOARD, 30" AFF TO BOTTOM.
  - INTERIOR INSPECTION LIGHT (BY UNIT MANUFACTURER.)
- NOTES**
- NO ELECTRICAL PANELS SHALL BE INSTALLED BELOW PIPING, DUCTWORK, OR MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  - FIELD COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL TO MAINTAIN NEC CLEARANCES.
  - REFER TO SPECIAL SYSTEMS PLANS FOR ADDITIONAL WORK AND ROUGH-IN REQUIREMENTS.
  - PROVIDE ALL SWITCHBOARDS, DISTRIBUTION PANELS, TRANSFORMERS AND OTHER FREE-STANDING ELECTRICAL GEAR WITH 3 1/2" CONCRETE HOUSEKEEPING PADS.
  - ALL CONDUCTORS #12 THWN IN 1/2"C, UNLESS NOTED OTHERWISE.



**PARTIAL FLOOR PLAN**  
 1/4"=1'-0" POWER NORTH



**MEZZANINE PLAN**  
 1/4"=1'-0" POWER NORTH



- LEGEND:**
- ① MOUNT AT ELEVATION 101'-4" TO BOTTOM OF FIXTURE.
  - ② MOUNT AT 11'-0" ABOVE GRADE TO CENTER OF FIXTURE.
  - ③ MOUNT AT 9'-11" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE.
  - ④ COORDINATE FIXTURE LOCATION WITH STRUCTURAL. A SLIGHT OFFSET FROM CENTER OF GRID IS OK, NOTIFY ARCHITECT IF MORE THAN 2" IS REQUIRED.
  - ⑤ CENTER FIXTURE OVER TRAY RAIL AT 7'-0" A.F.F. TO BOTTOM OF FIXTURE.
  - ⑥ LIGHT FIXTURES IN THIS AREA SHALL BE BETWEEN JOISTS. COORDINATE LOCATIONS.
  - ⑦ MOUNT AT 8'-8" ABOVE FINISH FLOOR.
  - ⑧ MOUNT AT 8'-0" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE. MOUNT FIRST FIXTURE AND ALLOW ARCHITECT TO REVIEW HEIGHT BEFORE MOUNTING REMAINING FIXTURES.
  - ⑨ REMOVE AND REPLACE, AT SAME LOCATION, EXISTING SURFACE MOUNTED 2x4 FIXTURE WITH FIXTURE DESIGNATED ON PLANS. CONNECT NEW FIXTURE TO EXISTING CIRCUITING AND SWITCHING.
  - ⑩ REMOVE AND REPLACE, AT SAME LOCATION, EXISTING SURFACE MOUNTED 1x4 FIXTURE WITH FIXTURE DESIGNATED ON PLANS. CONNECT NEW FIXTURE TO EXISTING CIRCUITING AND SWITCHING.
  - ⑪ REMOVE AND REPLACE, AT SAME LOCATION, EXISTING SURFACE MOUNTED 1x4 FIXTURE AT BOTTOM OF A/C UNIT WITH FIXTURE DESIGNATED ON PLANS. CONNECT NEW FIXTURE TO EXISTING CIRCUITING AND SWITCHING.
  - ⑫ EXISTING FIXTURES TO REMAIN, UNLESS NOTED OTHERWISE.
  - ⑬ CONDUITS TIGHT TO STRUCTURE ABOVE CEILING.
  - ⑭ REPLACE EXISTING EXIT SIGN. CONNECT TO EXISTING CIRCUITING.
  - ⑮ REPLACE EXISTING EMERGENCY LIGHTING FIXTURE. CONNECT TO EXISTING CIRCUITING.
  - ⑯ INTERCEPT AND EXTEND EXISTING FIRST FLOOR EMERGENCY LIGHTING CIRCUIT. MAINTAIN CONTINUITY BETWEEN EXISTING AREAS INTERRUPTED BY CONSTRUCTION. FIELD VERIFY PRIOR TO WORK.
  - ⑰ INTERCEPT AND EXTEND EXISTING SECOND FLOOR EMERGENCY LIGHTING CIRCUIT. MAINTAIN CONTINUITY BETWEEN EXISTING AREAS INTERRUPTED BY CONSTRUCTION. FIELD VERIFY PRIOR TO WORK.
  - ⑱ PROVIDE RECEPTACLE FOR FIXTURE PLUG (TYP. ALL GYM TYPE "G" FIXTURES).

**NOTES:**  
1. COORDINATE CLOSELY WITH OTHER DISCIPLINES.

PROJECT NO 9928.03  
DATE OCT 2003  
DRAWN BY CAD  
REVISION

**The Ken Ebert Design Group**  
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(785) 776-1800



**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

*I need copy of this for HS*



**LS & A** Latimer, Sommers & Associates, P.A., Engineers  
3639 SW Sunnyside Drive, Suite A  
Topeka, KS 66614-0377  
Telephone: (785) 233-3232 • FAX: (785) 233-0847  
Email: lsapa@lsapa.com

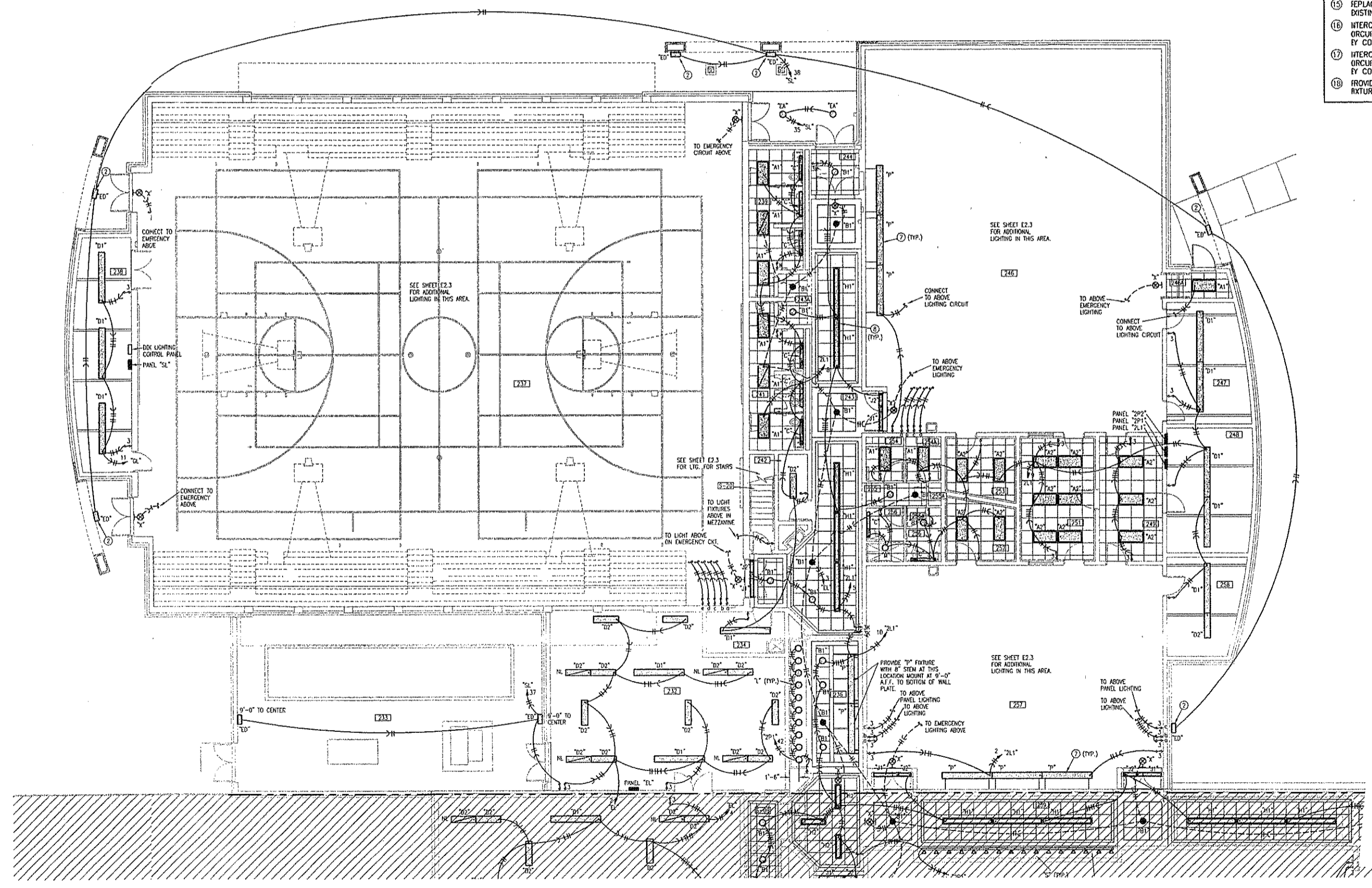
**The Ken Ebert Design Group**  
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 115 Westport Drive, Suite F  
 Wamego, Kansas 66502  
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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**E2.2**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTHWEST -  
 LIGHTING

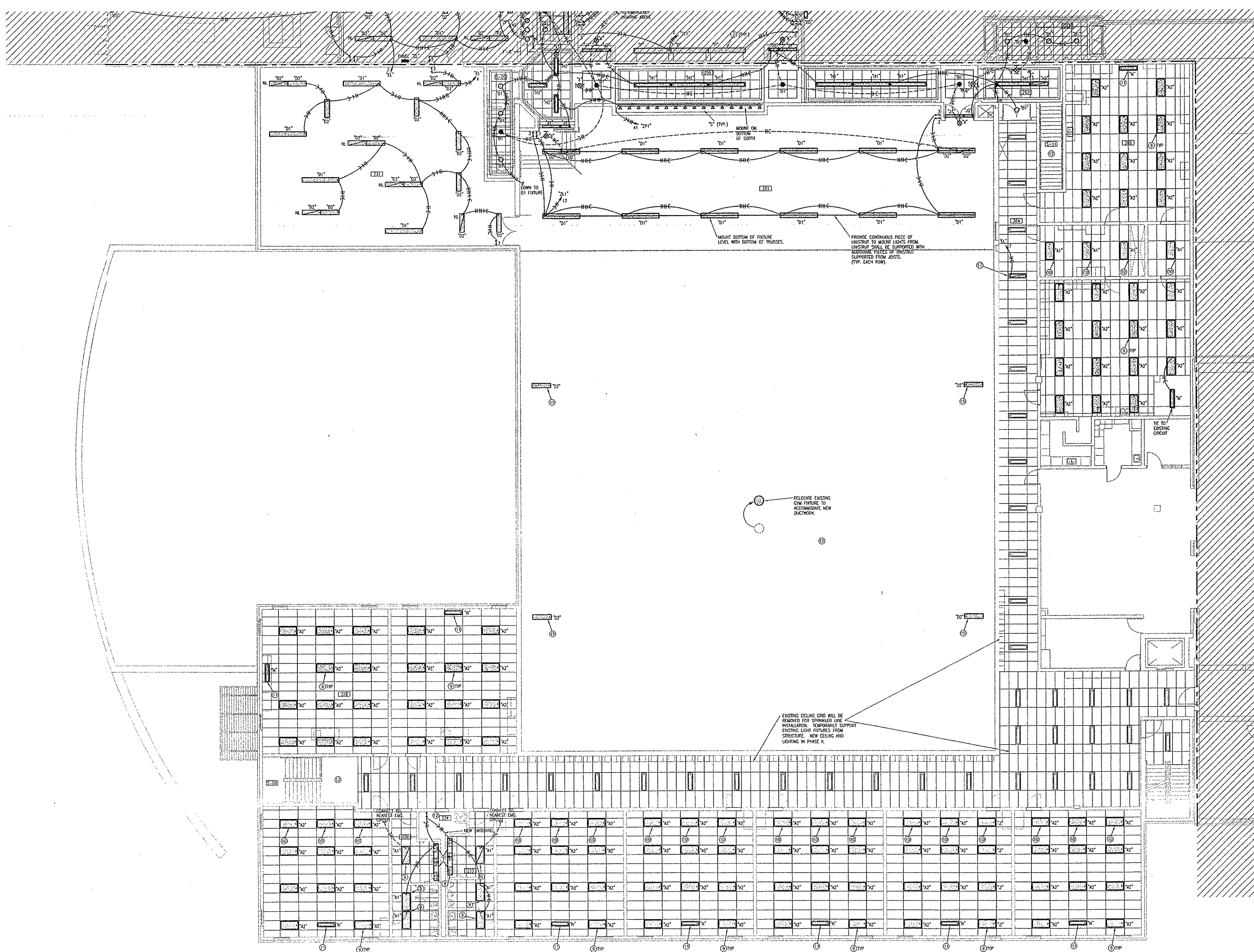
- LEGEND:**
- ① MOUNT AT ELEVATION 101'-4" TO BOTTOM OF FIXTURE.
  - ② MOUNT AT 11'-0" ABOVE GRADE TO CENTER OF FIXTURE.
  - ③ MOUNT AT 9'-11" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE.
  - ④ COORDINATE FIXTURE LOCATION WITH STRUCTURAL, A SLIGHT OFFSET FROM CENTER OF GRID IS OK, NOTIFY ARCHITECT IF MORE THAN 2" IS REQUIRED.
  - ⑤ CENTER FIXTURE OVER TRAY RAIL AT 7'-0" A.F.F. TO BOTTOM OF FIXTURE.
  - ⑥ LIGHT FIXTURES IN THIS AREA SHALL BE BETWEEN JOISTS. COORDINATE LOCATIONS.
  - ⑦ MOUNT AT 8'-8" ABOVE FINISH FLOOR.
  - ⑧ MOUNT AT 8'-0" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE. MOUNT FIRST FIXTURE AND ALLOW ARCHITECT TO REVIEW HEIGHT BEFORE MOUNTING REMAINING FIXTURES.
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  - ⑱ PROVIDE RECEPTACLE FOR FIXTURE PLUG (TYP. ALL GYM TYPE "G" FIXTURES).



*I need  
 copies of  
 this for  
 1-19*

**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8" = 1'-0"  
 LIGHTING





PROJECT NO 9428.03  
 DATE OCT 2009  
 DRAWN BY CAD  
 REVISION

**The Ken Ebert Design Group**  
 Architects and Planning Consultants  
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 Manhattan, Kansas 66502  
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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

**SHEET**  
**E2.3**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTHEAST -  
 LIGHTING

**SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8"=1'-0" LIGHTING



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 Email: lsaga@lscpa.com

LIGHT FIXTURE SCHEDULE												
MARK	MANUFACTURER	MODEL NUMBER	MOUNTING			LAMPS				REMARKS		
			RECESS.	SURF.	WALL	FINISH	INCAND.	FLOOR.	HD.		CODE	QUAN.
A1	WILLIAMS	506-S24-232-SA12125-EB4-277	X			WHITE			X	32W TB	2	1,11
A2	WILLIAMS	506-S24-432-SA12125-EB2/2-277	X			WHITE			X	32W TB	4	1,11
B1	PRESCOLITE	CFCB826QHEB-STCBAACL-B24	X			CLEAR ALZAK			X	26W OT	2	1,11
B2	PRESCOLITE	CFCB842DHEB-STCBAACL-B24	X			CLEAR ALZAK			X	42W TT	2	1,11
C	WILLIAMS	29-4-232-A-EB2-277			X	WHITE			X	32W TB	2	1,10,11
D1	WILLIAMS	82-B-432-WG11-EB2/2-277			X	WHITE			X	32W TB	4	1,5,11
D2	WILLIAMS	82-4-232-WG11-EB2-277			X	WHITE			X	32W TB	2	1,5,11
E	ELCO	EL2642W	X			WHITE		X		50W MR16	1	2
F	VISA	CB6250-IF36(277V)-BLK			X	BLACK		X		36W DULUX	1	1,8,11
G	HUBBELL	BL-400-H-4-SU-WH			PENDANT	WHITE		X		400W MH	1	1,8,11
H1	WILLIAMS	A13P33F-B-432-EB4-277			PENDANT	BLACK		X		32W TB	4	1,8,11,13
H2	WILLIAMS	A13P33F-4-232-EB2-277			PENDANT	BLACK		X		32W TB	2	1,8,11,13
I	NOT USED											
J1	WILLIAMS	75-4-132-EB1-277			X	WHITE		X		32W TB	1	1,11,9
J2	WILLIAMS	75-117-EB1-277			X	WHITE		X		17W TB	1	1,11,9
K	PRESCOLITE	RDPL150MH-277-DPRBC			PENDANT	BLACK/CLEAR ALZAK		X		150W MH	1	1,3,8,12,4
L	ELCO	E228W	X			BLACK		X		20W JC LAMP	1	2,6
M	INFINITY	PVRL75	X			CLEAR ALZAK		X		42W TT	1	1,7,11
N	WILLIAMS	11-4-232-RA12125-EB2-277			X	WHITE		X		32W TB	2	1,11
O	WILLIAMS	20-4-232-T-EB2			X	WHITE		X		32W TB	2	1,11
P	WINONA	P1-SS-296TB-277-SCB			X	BLACK		X		32W TB	2	1,8,11
Q	NOT USED											
R	WILLIAMS	73-4-12BTSS-EB1-277			X	WHITE		X		28W T5	1	1,9,11
S	BRUCK	220420SW			TRACK	BLACK		X		50W MR16	1	2,6,14
T	WILLIAMS	506-S14-232-SA12125-EB2-277	X			WHITE			X	32W TB	2	1,11
U	WILLIAMS	92-4-232-A-EB2-277			X	WHITE		X		32W TB	2	1,7,11
V	PRESCOLITE	CFS826HEB-STCQ	X			CLEAR ALZAK		X		26W OT	2	1,15,11
W	WILLIAMS	76-4-232-EB2-277			X	WHITE		X		32W TB	2	1,11
X	PRESCOLITE	DMX16AB			X	BLACK				LED		1,8
Y	NOT USED											
Z	BRUCK	220141			X	CHROME		X		50W MR16		2,6,8
EA	PRESCOLITE	HD10C13-277-CR-BL			X	BLACK		X		100W MH	1	1,7
EB	PRESCOLITE	93047M7			X	BLACK		X		70W MH	1	1,7
EC	NOT USED											
ED	MOLDCAST	MDU-4-SDE-100MH			X	BLACK		X		100W MH	1	1,7

- REMARKS LEGEND:
- 1 - 277 VOLT
  - 2 - 120 VOLT
  - 3 - PROVIDE WITH AIR CFT CABLE FOR SUSPENDED MOUNTING.
  - 4 - PROVIDE LOW NOISE ELECTRONIC BALLAST.
  - 5 - PROVIDE WITH WHITE WIREGUARD. PROVIDE VBY HANGERS AND CHAIN MOUNT AT 9'-0" A.F.F.
  - 6 - PROVIDE WITH LOW VOLTAGE TRANSFORMER.
  - 7 - RATED FOR WET LOCATION.
  - 8 - REFER TO PLANS FOR MOUNTING INFORMATION.
  - 9 - LOUVER SPECIFIED BY ARCHITECT. REFER TO ARCHITECTURAL DETAIL FOR MORE INFORMATION.
  - 10 - MOUNT FIXTURE ABOVE MIRROR.
  - 11 - PROVIDE WITH 3500K LAMPS.
  - 12 - PROVIDE WITH METAL HALIDE MASTER COLOR LAMP.
  - 13 - REFER TO PLANS FOR ENDCAP & JOINER LOCATIONS
  - 14 - PROVIDE CEILING MOUNTED TRACK LENGTHS AS SHOWN ON PLANS.
  - 15 - WITH PRESCOLITE SR1080 8" ARCHITECTURAL TRIM.
  - 16 - PROVIDE LCPD LOOP, CORD & PLUG, PPH PENDANT POWER HOOK, SAFETY CHAIN KIT, WIREGUARD, CORD HANGED GLASS LENS.

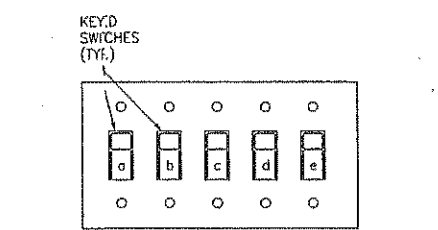
- LEGEND:
- 1 MOUNT AT ELEVATION 101'-4" TO BOTTOM OF FIXTURE.
  - 2 MOUNT AT 11'-0" ABOVE GRADE TO CENTER OF FIXTURE.
  - 3 MOUNT AT 9'-11" ABOVE FINISH FLOOR TO BOTTOM OF FIXTURE.
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  - 9 REMOVE AND REPLACE, AT SAME LOCATION, EXISTING SURFACE MOUNTED 2x4 FIXTURE WITH FIXTURE DESIGNATED ON PLANS. CONNECT NEW FIXTURE TO EXISTING CIRCUITING AND SWITCHING.
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  - 14 REPLACE EXISTING EXIT SIGN. CONNECT TO EXISTING CIRCUITING.
  - 15 REPLACE EXISTING EMERGENCY LIGHTING FIXTURE. CONNECT TO EXISTING CIRCUITING.
  - 16 INTERCEPT AND EXTEND EXISTING FIRST FLOOR EMERGENCY LIGHTING CIRCUIT. MAINTAIN CONTINUITY BETWEEN EXISTING AREAS INTERRUPTED BY CONSTRUCTION. FIELD VERIFY PRIOR TO WORK.
  - 17 INTERCEPT AND EXTEND EXISTING SECOND FLOOR EMERGENCY LIGHTING CIRCUIT. MAINTAIN CONTINUITY BETWEEN EXISTING AREAS INTERRUPTED BY CONSTRUCTION. FIELD VERIFY PRIOR TO WORK.
  - 18 PROVIDE RECEPTACLE FOR FIXTURE PLUG (TYP. ALL GYM TYPE "G" FIXTURES).

PROJECT NO 4426.03  
DATE OCT 2009  
DRAWN BY CAD  
REVISION

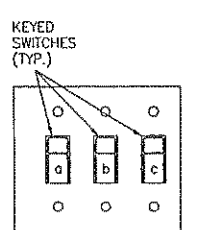
**The Ken Ebert Design Group**  
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Manhattan, Kansas 66502  
(785) 776-8000 (785) 776-9906 FAX



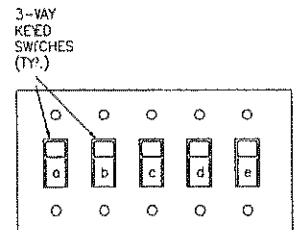
**Wamego High School Improvements Phase I**  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547



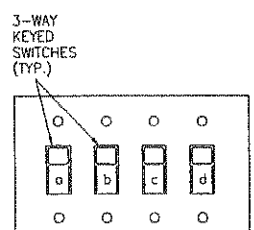
**SWITCH BANK #1 DETAIL**  
NO SCALE



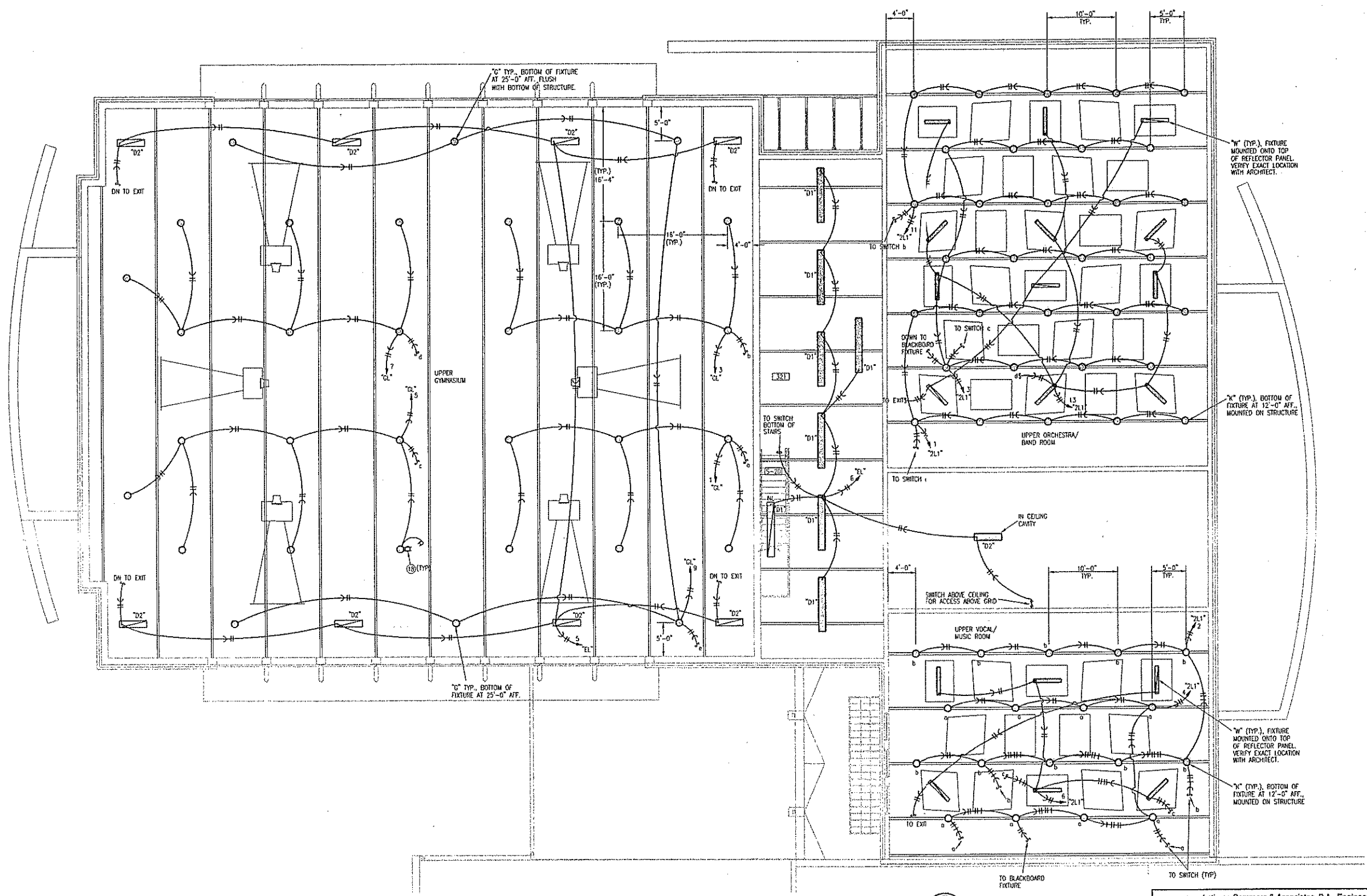
**SWITCH BANK #2 DETAIL**  
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**SWITCH BANK #3 DETAIL**  
NO SCALE



**SWITCH BANK #4 DETAIL**  
NO SCALE

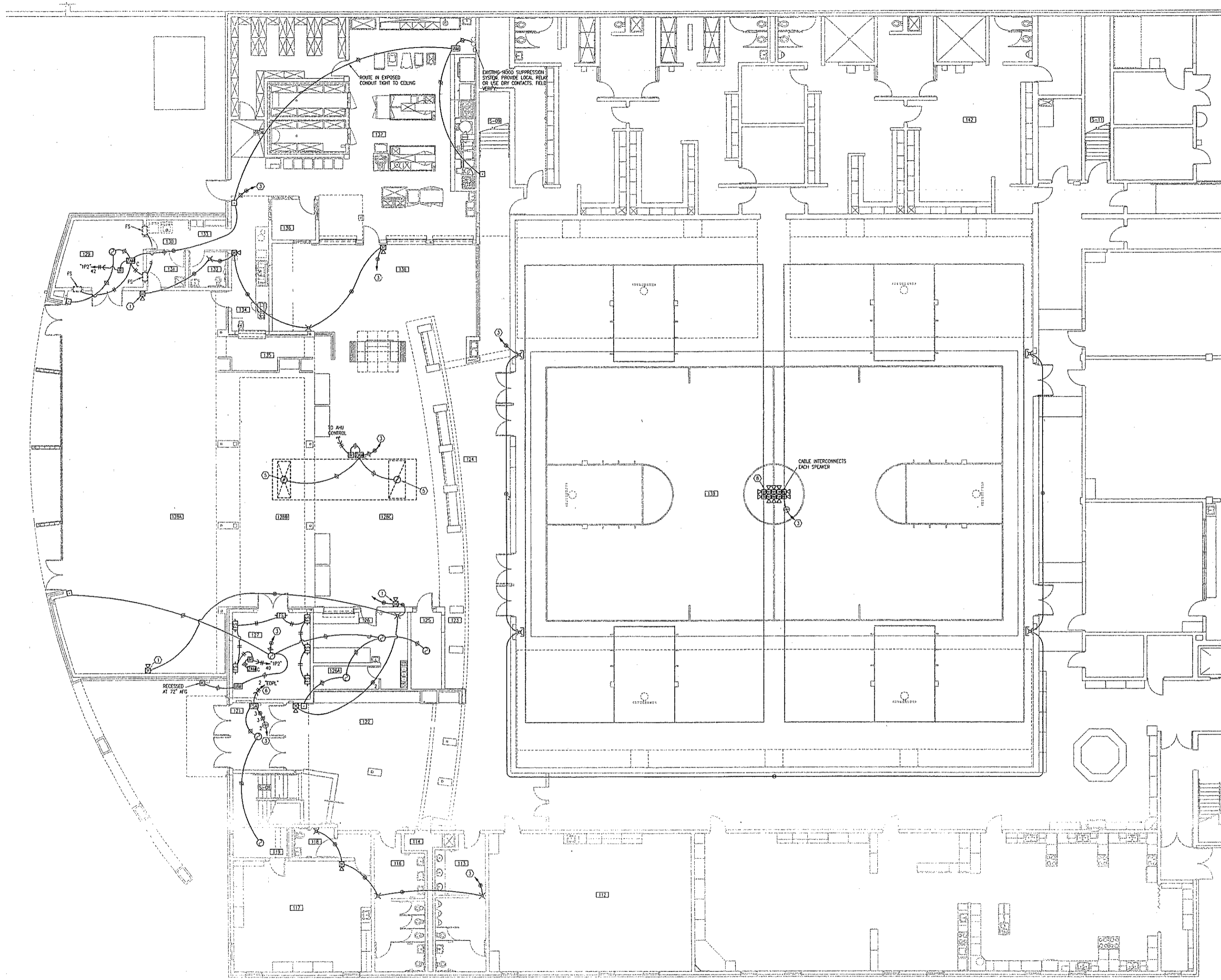


**MEZZANINE/HIGH ROOF IMPROVEMENT PLAN - SOUTHWEST**  
1/8"=1'-0"



**LS & A**  
Letimer, Sommers & Associates, P.A., Engineers  
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**SHEET E2.4**  
MEZZANINE/HIGH ROOF PLAN - SOUTHWEST - LIGHTING



NFPA SYMBOLS/LEGEND	
①	SMOKE DETECTOR
②	SMOKE DETECTOR WITH SOUNDER BASE
③	SMOKE DETECTOR WITH ISOLATOR BASE
④	HEAT DETECTOR
⑤	EXACT DETECTOR
⑥	ACCESSIBLE MANUAL PULL STATION
⑦	DOOR HOLDER
⑧	FLOW DETECTOR/SWITCH
⑨	TAMPER DETECTOR
⑩	TEST STATION
⑪	WPI/IC SHUTDOWN RELAY, SPDT
⑫	A/V (WALL MOUNTED) 24 VDC
⑬	STROBE
⑭	BELL
⑮	HORN/SPEAKER
⑯	FIRE ALARM CONTROL PANEL
⑰	FIREMAN'S PHONE
⑱	SIGNAL ZONE
⑲	CONTROL ZONE
⑳	DETECTOR ZONE
㉑	MONITOR MODULE
㉒	RELAY UNIT
㉓	REMOTE ANNUNCIATOR WITH AUDIO
㉔	ANNUNCIATOR
㉕	FIRE SMOKE DAMPER
㉖	RAC POWER EXTENDER
㉗	KNOX BOX, FLUSH MOUNTED WITH DOOR TAMPER MONITORING
㉘	WPI #895, 2 #14 SOLID, SHIELDED PLENUM
㉙	WPI #8994, (2) #12 SOLID, SHIELDED PLENUM
㉚	SHIELDED CABLE - WEST PEXN #86975 #18 PLENUM
㉛	SHIELDED CABLE - WEST PEXN #86980B #16

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.  
REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.  
\* #14 BOXES WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

- LEGEND:**
- ① 110 CD STROBE UNITS.
  - ② VERIFY MOUNTING LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN WORK.
  - ③ CONTINUE WIRING TO THE LOCATION OF THE "FCP".
  - ④ CONTINUE TO EXISTING OFFICE AND INTERFACE WITH NEW ANNUNCIATOR IN THAT AREA. VERIFY EXACT LOCATION WITH THE ENGINEER BEFORE INSTALLING.
  - ⑤ TYPICAL OF SPOT TYPE SMOKE SENSOR MOUNTED WITHIN THE DUCT OPENING, PER NFPA 72. DETERMINE EXACT QUANTITY REQUIRED FROM THE MECHANICAL DRAWINGS. LOCATE SO THE SMOKE ENTRY PORTS ARE PARALLEL TO THE AIR FLOW.
  - ⑥ POWER FROM THE SAME CIRCUIT BREAKER THAT POWERS THE FIRE ALARM CONTROL PANEL.
  - ⑦ WEATHERPROOF A/V, 110 CD STROBE AND GUARD.
  - ⑧ COORDINATE SPEAKER MOUNTING HARDWARE WITH INTERCOM SPEAKER HARDWARE.
  - ⑨ 3/4" C. WITH PULL STRING FOR PHASE II FA CIRCUIT ROUGH-IN.
  - ⑩ 2" C. WITH PULL STRING FOR PHASE II FA CONTROL WIRING ROUGH-IN.

- NOTES:**
1. IN ALL AREAS WITH EXPOSED STRUCTURE, WIRING SHALL BE IN CONDUIT.
  2. WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THIS TRAY.

PROJECT NO 9428.03  
DATE OCT 2008  
DRAWN BY CAD  
REVISION

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**Wamego High School Improvements**  
Phase I  
Wamego Public Schools - Unified School District 320  
801 North Lincoln Street  
Wamego, Kansas 66547

**FIRST FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
1/8" = 1'-0"  
FIRE ALARM  
NORTH

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**SHEET**  
**E3.1**  
FIRST FLOOR IMPROVEMENT  
PLAN - SOUTHEAST -  
FIRE ALARM

The Ken Ebert Design Group  
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Wamego High School Improvements  
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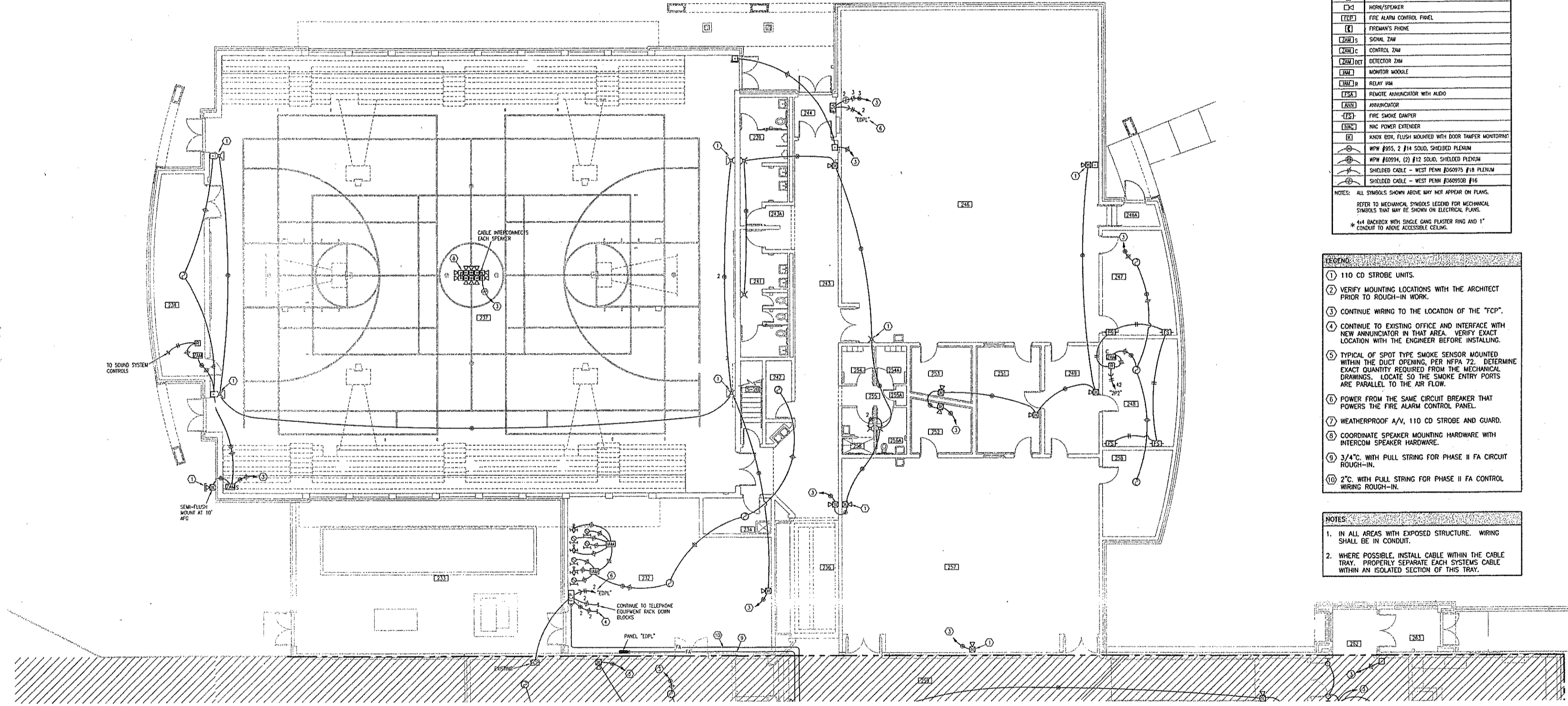
SHEET  
**E3.2**  
 SECOND FLOOR IMPROVEMENT  
 PLAN - SOUTHWEST -  
 FIRE ALARM

NFPA SYMBOLS LEGEND	
⊙	SMOKE DETECTOR
⊙S	SMOKE DETECTOR WITH SPANNER BASE
⊙PS	SMOKE DETECTOR WITH ISOLATOR BASE
⊙H	HEAT DETECTOR
⊙D	DUCT DETECTOR
⊙M	ADDRESSABLE MANUAL PULL STATION
⊙R	DOOR HOLDER
⊙+H	FLOW DETECTOR/SWITCH
⊙T	TAMPER DETECTOR
⊙I	TEST STATION
⊙R1	WIRING/C SHUTDOWN RELAY, SPOT
⊙R2	A/V (WALL MOUNTED) 24 VDC
⊙X	STROBE
⊙B	BELL
⊙H/S	HORN/SPEAKER
⊙TCP	FIRE ALARM CONTROL PANEL
⊙F	FIREMAN'S PHONE
⊙ZM1 S	SIGNAL ZONE
⊙ZM1 C	CONTROL ZONE
⊙ZM1 DET	DETECTOR ZONE
⊙M1	MONITOR MODULE
⊙R1	RELAY UNIT
⊙FSA	REMOTE ANNUNCIATOR WITH ALDIO
⊙A	ANNUNCIATOR
⊙FS	FIRE SMOKE DAMPER
⊙FSE	FIRE SMOKE EXTENDER
⊙E	EXPOSURE BOX, FLUSH MOUNTED WITH DOOR TAMPER MONITORING
⊙P	W/P #895, 2 #14 SOLID, SHIELDED FLEXIBLE
⊙P	W/P #6094, (2) #12 SOLID, SHIELDED FLEXIBLE
⊙P	SHIELDED CABLE - WEST PENN #60975 #18 PLENUM
⊙P	SHIELDED CABLE - WEST PENN #60976 #16

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.  
 REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.  
 \* 1/4" BACKBOX WITH SINGLE GANG FLUOR RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

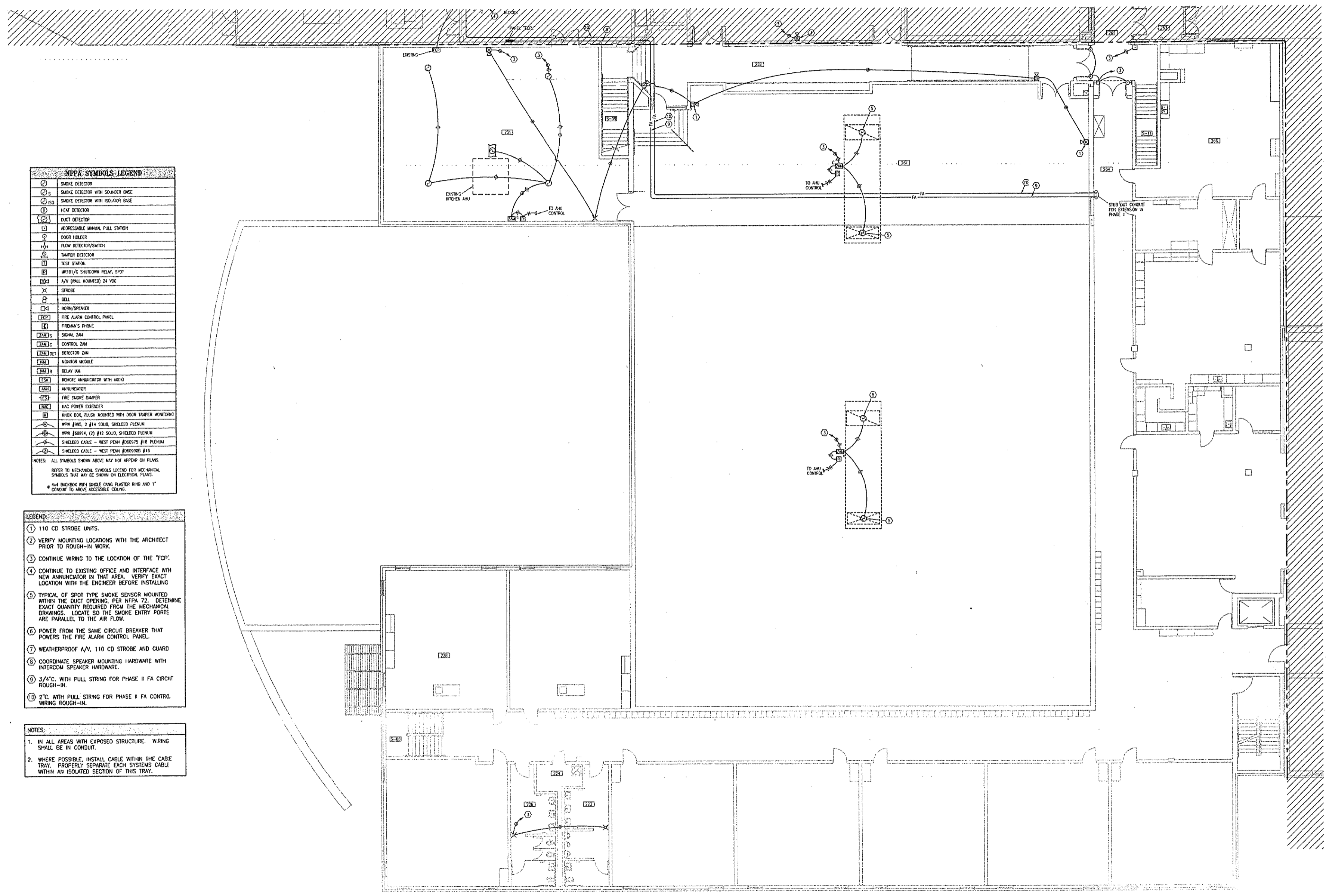
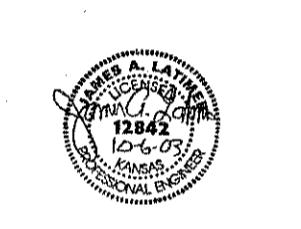
- LEGEND:
- 110 CD STROBE UNITS.
  - VERIFY MOUNTING LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN WORK.
  - CONTINUE WIRING TO THE LOCATION OF THE "TCP".
  - CONTINUE TO EXISTING OFFICE AND INTERFACE WITH NEW ANNUNCIATOR IN THAT AREA. VERIFY EXACT LOCATION WITH THE ENGINEER BEFORE INSTALLING.
  - TYPICAL OF SPOT TYPE SMOKE SENSOR MOUNTED WITHIN THE DUCT OPENING. PER NFPA 72, DETERMINE EXACT QUANTITY REQUIRED FROM THE MECHANICAL DRAWINGS. LOCATE SO THE SMOKE ENTRY PORTS ARE PARALLEL TO THE AIR FLOW.
  - POWER FROM THE SAME CIRCUIT BREAKER THAT POWERS THE FIRE ALARM CONTROL PANEL.
  - WEATHERPROOF A/V, 110 CD STROBE AND GUARD.
  - COORDINATE SPEAKER MOUNTING HARDWARE WITH INTERCOM SPEAKER HARDWARE.
  - 3/4" WITH PULL STRING FOR PHASE II FA CIRCUIT ROUGH-IN.
  - 2" WITH PULL STRING FOR PHASE II FA CONTROL WIRING ROUGH-IN.

- NOTES:
- IN ALL AREAS WITH EXPOSED STRUCTURE, WIRING SHALL BE IN CONDUIT.
  - WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THIS TRAY.



**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8" = 1'-0" FIRE ALARM





**NFPA SYMBOLS LEGEND**

①	SMOKE DETECTOR
②	SMOKE DETECTOR WITH SMOKEPEDIA BASE
③	SMOKE DETECTOR WITH ISOLATOR BASE
④	HEAT DETECTOR
⑤	DUCT DETECTOR
⑥	ADDRESSABLE MANUAL PULL STATION
⑦	DOOR HOLDER
⑧	FLOW DETECTOR/SWITCH
⑨	TAMPER DETECTOR
⑩	TEST STATION
⑪	W/HO/C SHUTDOWN RELAY, SPOT
⑫	A/V (WALL MOUNTED) 24 VDC
⑬	STROBE
⑭	BELL
⑮	HORN/SPEAKER
⑯	FIRE ALARM CONTROL PANEL
⑰	FIREMAN'S PHONE
⑱	SIGNAL ZONE
⑲	CONTROL ZONE
⑳	DETECTOR ZONE
㉑	MONITOR MODULE
㉒	RELAY ISM
㉓	REMOTE ANNUNCIATOR WITH AUDIO
㉔	ANNUNCIATOR
㉕	FIRE SMOKE DAMPER
㉖	HAC POWER EXCIDER
㉗	KNOX BOX, FLUSH MOUNTED WITH DOOR TAMPER MONITORING
㉘	WPM #955, 2 #14 SOLID, SHIELDED PLENUM
㉙	WPM #2294, (2) #12 SOLID, SHIELDED PLENUM
㉚	SHIELDED CABLE - WEST FEIN #562975 #18 PLENUM
㉛	SHIELDED CABLE - WEST FEIN #562980 #16

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.  
 REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.  
 \* 4-4 BACKBOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

- LEGEND:**
- ① 110 CD STROBE UNITS.
  - ② VERIFY MOUNTING LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN WORK.
  - ③ CONTINUE WIRING TO THE LOCATION OF THE 'TCP'.
  - ④ CONTINUE TO EXISTING OFFICE AND INTERFACE WITH NEW ANNUNCIATOR IN THAT AREA. VERIFY EXACT LOCATION WITH THE ENGINEER BEFORE INSTALLING.
  - ⑤ TYPICAL OF SPOT TYPE SMOKE SENSOR MOUNTED WITHIN THE DUCT OPENING. PER NFPA 72, DETERMINE EXACT QUANTITY REQUIRED FROM THE MECHANICAL DRAWINGS. LOCATE SO THE SMOKE ENTRY PORTS ARE PARALLEL TO THE AIR FLOW.
  - ⑥ POWER FROM THE SAME CIRCUIT BREAKER THAT POWERS THE FIRE ALARM CONTROL PANEL.
  - ⑦ WEATHERPROOF A/V, 110 CD STROBE AND GUARD.
  - ⑧ COORDINATE SPEAKER MOUNTING HARDWARE WITH INTERCOM SPEAKER HARDWARE.
  - ⑨ 3/4" C. WITH PULL STRING FOR PHASE II FA CIRCUIT ROUGH-IN.
  - ⑩ 2" C. WITH PULL STRING FOR PHASE II FA CONTR. WIRING ROUGH-IN.

- NOTES:**
1. IN ALL AREAS WITH EXPOSED STRUCTURE, WIRING SHALL BE IN CONDUIT.
  2. WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THIS TRAY.

**SECOND FLOOR IMPROVEMENT PLAN - SOUTHEAST**  
 1/8" = 1'-0" FIRE ALARM





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**Wamego High School Improvements**  
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**SHEET**  
**E3.4**  
 MEZZANINE PLAN -  
 SOUTHWEST -  
 FIRE ALARM

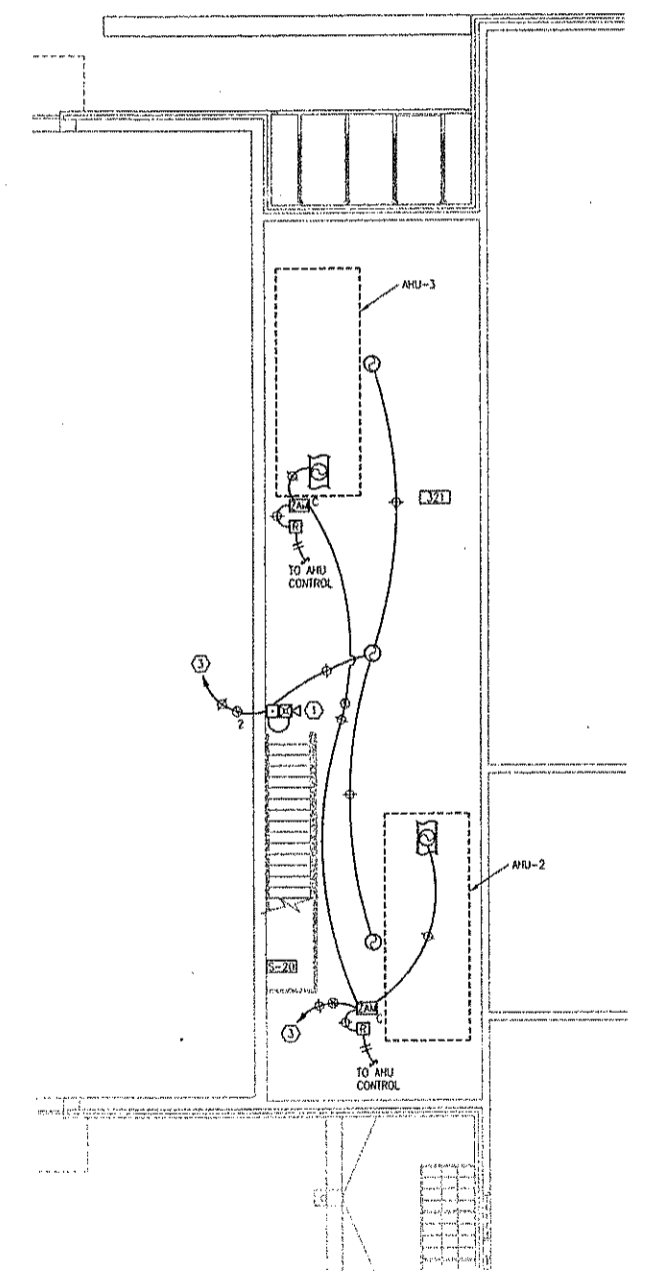
- LEGEND:**
- ① 110 CD STROBE UNITS.
  - ② VERIFY MOUNTING LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN WORK.
  - ③ CONTINUE WIRING TO THE LOCATION OF THE "FOP".
  - ④ CONTINUE TO EXISTING OFFICE AND INTERFACE WITH NEW ANNUNCIATOR IN THAT AREA. VERIFY EXACT LOCATION WITH THE ENGINEER BEFORE INSTALLING.
  - ⑤ TYPICAL OF SPOT TYPE SMOKE SENSOR MOUNTED WITHIN THE DUCT OPENING. PER NFPA 72. DETERMINE EXACT QUANTITY REQUIRED FROM THE MECHANICAL DRAWINGS. LOCATE SO THE SMOKE ENTRY PORS ARE PARALLEL TO THE AIR FLOW.
  - ⑥ POWER FROM THE SAME CIRCUIT BREAKER THAT POWERS THE FIRE ALARM CONTROL PANEL.
  - ⑦ WEATHERPROOF A/V, 110 CD STROBE AND GUAD.
  - ⑧ COORDINATE SPEAKER MOUNTING HARDWARE WITH INTERCOM SPEAKER HARDWARE.
  - ⑨ 3/4" C. WITH PULL STRING FOR PHASE II FA CIRCUIT ROUGH-IN.
  - ⑩ 2" C. WITH PULL STRING FOR PHASE II FA CONTROL WIRING ROUGH-IN.

- NOTES:**
1. IN ALL AREAS WITH EXPOSED STRUCTURE, WIRING SHALL BE IN CONDUIT.
  2. WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THIS TRAY.

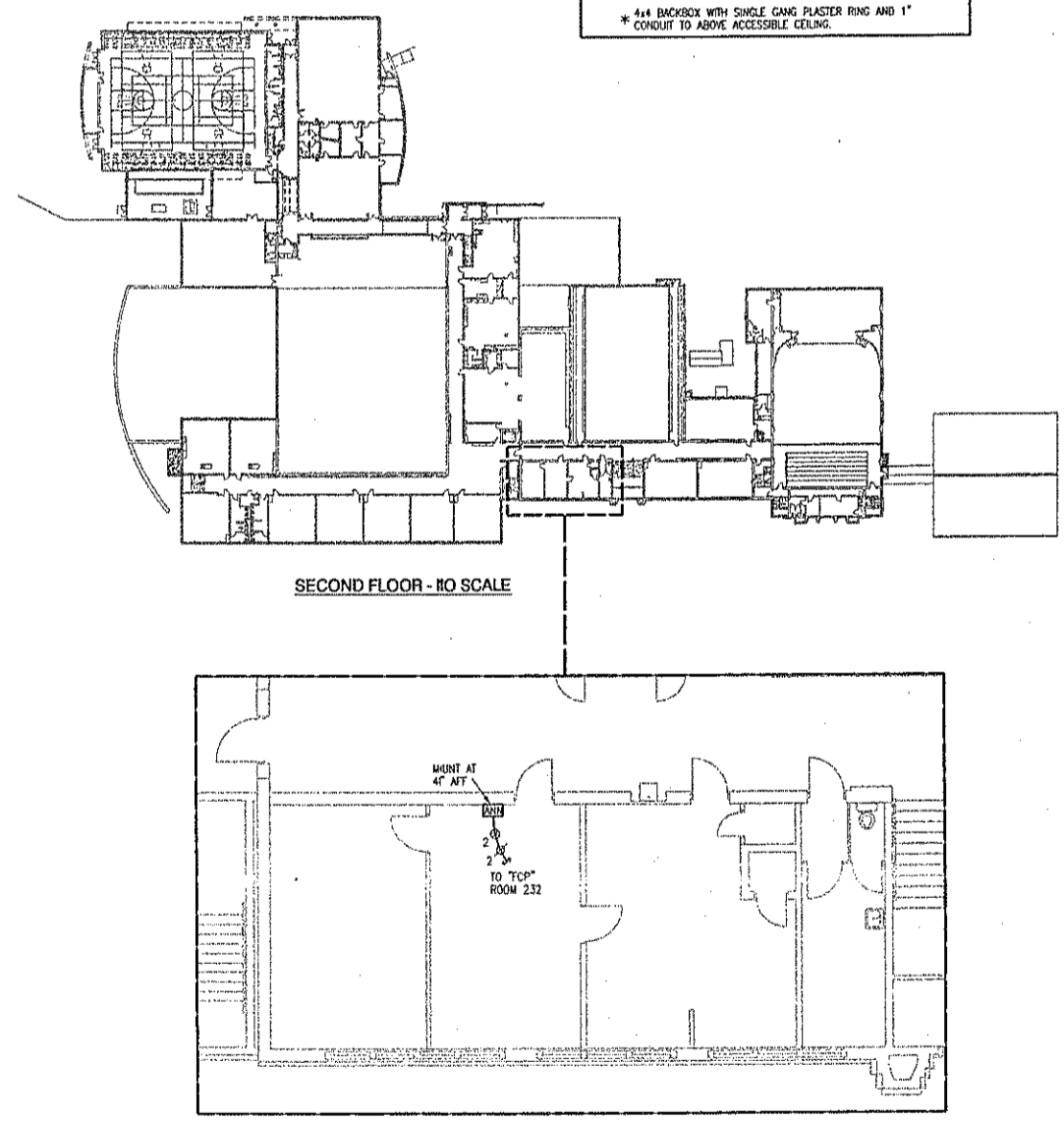
**NFPA SYMBOLS LEGEND**

☉	SMOKE DETECTOR
☉ <sub>S</sub>	SMOKE DETECTOR WITH SONORER BASE
☉ <sub>IS</sub>	SMOKE DETECTOR WITH ISOLATOR BASE
⊕	HEAT DETECTOR
⊕ <sub>D</sub>	DUCT DETECTOR
☐	ADDRESSABLE MANUAL PULL STATION
☐	DOOR HOLDER
⊕ <sub>+</sub>	FLOW DETECTOR/DIRTCH
☉ <sub>T</sub>	TAMPER DETECTOR
☐	TEST STATION
☐ <sub>R</sub>	WIRING/C SHUT/DOWN RELAY, SPOT
☐ <sub>24</sub>	A/V (WALL MOUNTED) 24 VDC
⊕	STROBE
☐	BELL
☐ <sub>HS</sub>	HORN/SPEAKER
☐ <sub>FACP</sub>	FIRE ALARM CONTROL PANEL
☐ <sub>FPM</sub>	FIREMAN'S PHONE
☐ <sub>ZAM</sub>	SIGNAL ZAM
☐ <sub>ZAM C</sub>	CONTROL ZAM
☐ <sub>ZAM DET</sub>	DETECTOR ZAM
☐ <sub>MM</sub>	MONITOR MODULE
☐ <sub>RM</sub>	RELAY MM
☐ <sub>RA</sub>	REMOTE ANNUNCIATOR WITH AUDIO
☐ <sub>ANN</sub>	ANNUNCIATOR
☐ <sub>FSD</sub>	FIRE SMOKE DAMPER
☐ <sub>NAC</sub>	NAC POWER EXTENDER
☐ <sub>K</sub>	KNOX BOX, FLUSH MOUNTED WITH DOOR TAMPER MONITORING
☉ <sub>14</sub>	WPM #995, 2 #14 SOLID, SHIELDED PLENUM
☉ <sub>12</sub>	WPM #52994, (2) #12 SOLID, SHIELDED PLENUM
☉ <sub>18</sub>	SHIELDED CABLE - WEST PENN #560975 #18 PLENUM
☉ <sub>16</sub>	SHIELDED CABLE - WEST PENN #560990 #16

NOTES: ALL SYMBOLS SHOWN ABOVE MAY NOT APPEAR ON PLANS.  
 REFER TO MECHANICAL SYMBOLS LEGEND FOR MECHANICAL SYMBOLS THAT MAY BE SHOWN ON ELECTRICAL PLANS.  
 \* 4x4 BACKBOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.



**MEZZANINE PLAN - SOUTHWEST**  
 1/8"=1'-0"  
 FIRE ALARM  
 NORTH



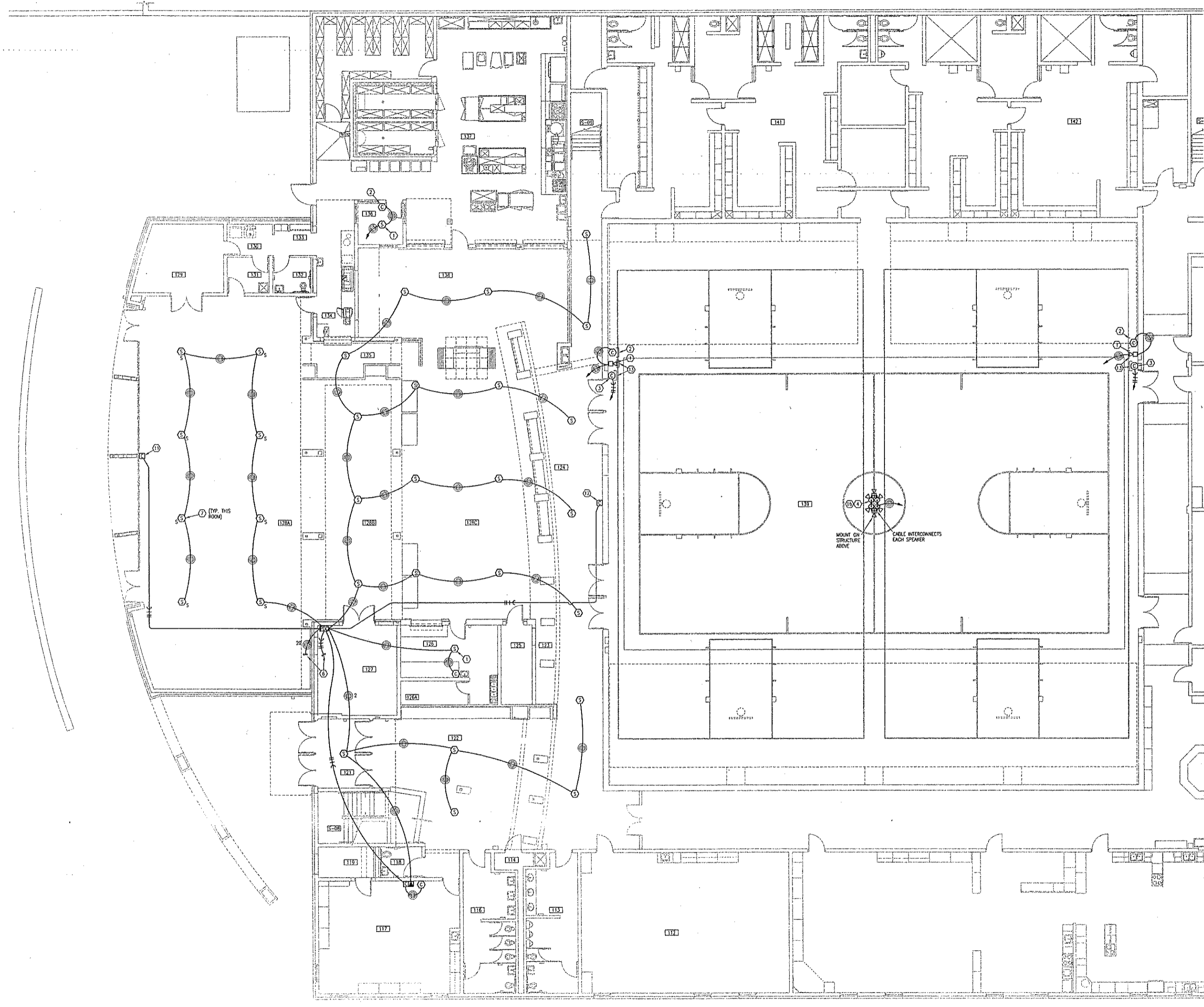
**PARTIAL SECOND FLOOR PLAN**  
 1/8"=1'-0"  
 FIRE ALARM  
 NORTH

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**Wamego High School Improvements**  
 Phase I  
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**SHEET**  
**E3.5**  
 FIRST FLOOR IMPROVEMENT  
 PLAN - SOUTH-EAST  
 INTERCOM AND CLOCKS



**SPECIAL SYSTEMS LEGEND**

Ⓢ	CALL IN SWITCH
Ⓜ	MICROPHONE OUTLET
Ⓜ	INTERCOM CONTROLS - PHONE BASED SYSTEM
Ⓜ	PUNCH DOWN CABINET
Ⓜ	ADMINISTRATIVE DISPLAY
Ⓜ	MASTER CLOCK
Ⓜ	12" SQUARE CLOCK
Ⓜ	ROUND CLOCK, AS NOTED
Ⓜ	CEILING SPEAKER
Ⓜ	CEILING SPEAKER IN SURFACE ENCLOSURE
Ⓜ	HORN/SPEAKER
Ⓜ	COMBINATION CLOCK/SPEAKER WITH 12" ROUND CLOCK (Ⓜ)
Ⓜ	CEMENT MOUNTED SPEAKER
Ⓜ	WALL MOUNTED SPEAKER
Ⓜ	ADMINISTRATIVE TELEPHONES
Ⓜ	DEVICE WITH SECURITY GUARD
Ⓜ	#12 TRIM WIRE
Ⓜ	NW #22/24, (2) PAIR #16 TWISTED, NON-SHIELDED, PLENUM
Ⓜ	NW #22/24, (2) PAIR #22, NON-SHIELDED, PLENUM
Ⓜ	WIRING/CABLE HOME RUN

- NOTES**
- TALK BACK TYPE SPEAKER.
  - MOUNT DEVICE ON WALL AT 48" AFF.
  - 18" DIAMETER CLOCK.
  - MOUNT WITHIN THE BAR JOIST, HORN TO BE DIRECTED 30'-40" DOWN.
  - CONCEAL CABLING IN WALL WITH FLEXIBLE CONDUIT.
  - CONTINUE WIRING TO EXISTING SCHOOL ADMINISTRATIVE OFFICE, SECOND FLOOR. CLOCK WIRING TERMINATES IN THE EXISTING MASTER CLOCK. COMMUNICATIONS CABLE GOES TO THE PUNCH DOWN CABINET (PDC).
  - COORDINATE LOCATION OF SURFACE SPEAKER WITH STRUCTURE, DUCT WORK AND LIGHTING. DO NOT LOCATE ABOVE DUCTWORK OR OTHER OBSTRUCTIONS.
  - EXISTING DEVICE TO BE USED.
  - VERIFY MOUNTING LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
  - INSTALL EQUIPMENT ENCLOSURE BOTTOM AT A MINIMUM OF 9'-4" AFF.
  - INSTALL WITHIN SOFFIT ABOVE WINDOWS.
  - INSTALL AT THE CENTER, BETWEEN GYMNASIUM DOORS.
  - MOUNT DEVICE AT 10" AFF TO BOTTOM OF ENCLOSURE.
  - VERIFY BACKBOX MOUNTING DETAILS BEFORE INSTALLING.
  - EXTEND VESTIBULE SPEAKER IF ALTERNATE IS TAKEN.
  - COORDINATE SPEAKER MOUNTING HARDWARE WITH FIRE ALARM SPEAKER HARDWARE IN THIS LOCATION.

- NOTES**
- IN ALL AREAS WITH EXPOSED STRUCTURE, OR ON EXISTING WALLS.
  - IN ALL AREAS WITH EXPOSED STRUCTURE, DEVICES SHALL BE SURFACE MOUNTED WITHIN ENCLOSURE AND REQUIRED HARDWARE FOR THE TYPE DEVICE.
  - WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THE TRAY.

**FIRST FLOOR IMPROVEMENT PLAN - SOUTH-EAST**  
 1/8"=1'-0"  
 INTERCOM AND CLOCKS



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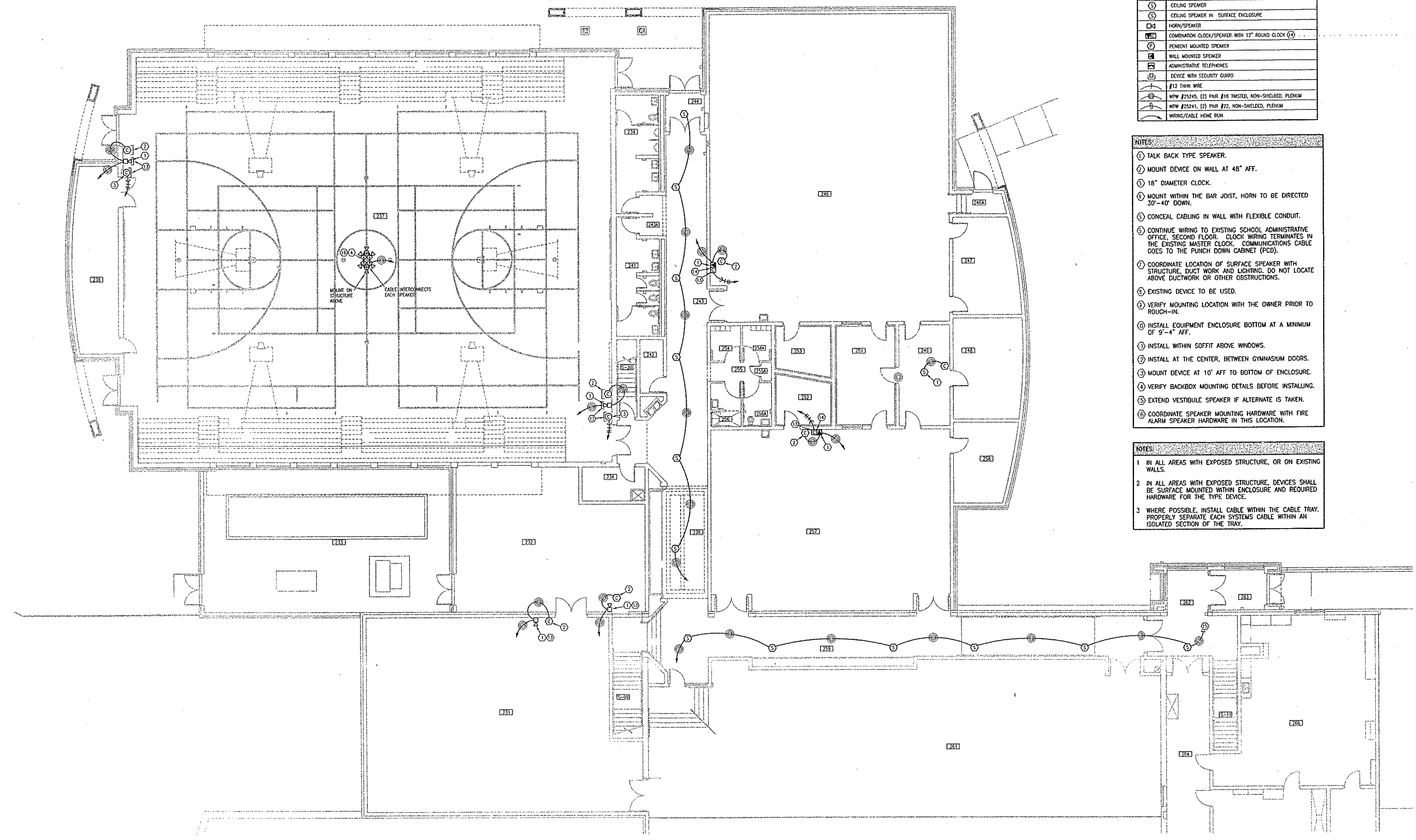
**Wamego High School Improvements Phase I**  
 Wamego Public Schools - Unified School District 320  
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 Wamego, Kansas 66547

**SHEET E3.6**  
 SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST - INTERCOM AND CLOCKS

SPECIAL SYSTEMS LEGEND	
(C)	CALL IN SWITCH
(M)	MICROPHONE OUTLET
(E3.3)	INTERCOM CONTROLS - PHONE BASED SYSTEM
(E3.2)	PUNCH DOWN CABINET
(E3.1)	ADMINISTRATIVE DISPLAY
(C)	MASTER CLOCK
(C)	12" SQUARE CLOCK
(C)	ROUND CLOCK, AS NOTED
(S)	CEILING SPEAKER
(S)	CEILING SPEAKER IN SURFACE ENCLOSURE
(H)	HORN/SPEAKER
(H)	COMBINATION CLOCK/SPEAKER WITH 12" ROUND CLOCK (H)
(P)	PENDANT MOUNTED SPEAKER
(W)	WALL MOUNTED SPEAKER
(T)	ADMINISTRATIVE TELEPHONES
(U)	DEVICE WITH SECURITY GUARD
(#12)	#12 TIGHT WIRE
(#12)	#12 TWISTED, NON-SHEATHED, FLEXIBLE
(#12)	#12 TWISTED, NON-SHEATHED, FLEXIBLE
(#12)	#12 TWISTED, NON-SHEATHED, FLEXIBLE
(#12)	WORK/CABLE HOME RUN

- NOTES:**
- TALK BACK TYPE SPEAKER.
  - MOUNT DEVICE ON WALL AT 48" AFF.
  - 18" DIAMETER CLOCK.
  - MOUNT WITHIN THE BAR JOIST, HORN TO BE DIRECTED 30"-40" DOWN.
  - CONCEAL CABLING IN WALL WITH FLEXIBLE CONDUIT.
  - CONTINUE WIRING TO EXISTING SCHOOL ADMINISTRATIVE OFFICE, SECOND FLOOR. CLOCK WIRING TERMINATES IN THE EXISTING MASTER CLOCK. COMMUNICATIONS CABLE GOES TO THE PUNCH DOWN CABINET (PCD).
  - COORDINATE LOCATION OF SURFACE SPEAKER WITH STRUCTURE, DUCT WORK AND LIGHTING. DO NOT LOCATE ABOVE DUCTWORK OR OTHER OBSTRUCTIONS.
  - EXISTING DEVICE TO BE USED.
  - VERIFY MOUNTING LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
  - INSTALL EQUIPMENT ENCLOSURE BOTTOM AT A MINIMUM OF 9'-4" AFF.
  - INSTALL WITHIN SOFFIT ABOVE WINDOWS.
  - INSTALL AT THE CENTER, BETWEEN GYMNASIUM DOORS.
  - MOUNT DEVICE AT 10' AFF TO BOTTOM OF ENCLOSURE.
  - VERIFY BACKBOX MOUNTING DETAILS BEFORE INSTALLING.
  - EXTEND VESTIBULE SPEAKER IF ALTERNATE IS TAKEN.
  - COORDINATE SPEAKER MOUNTING HARDWARE WITH FIRE ALARM SPEAKER HARDWARE IN THIS LOCATION.

- NOTES:**
- IN ALL AREAS WITH EXPOSED STRUCTURE, OR ON EXISTING WALLS.
  - IN ALL AREAS WITH EXPOSED STRUCTURE, DEVICES SHALL BE SURFACE MOUNTED WITHIN ENCLOSURE AND REQUIRED HARDWARE FOR THE TYPE DEVICE.
  - WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THE TRAY.



**SECOND FLOOR IMPROVEMENT PLAN - SOUTHWEST**  
 1/8" = 1'-0"  
 INTERCOM AND CLOCKS



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**Wamego High School Improvements Phase I**  
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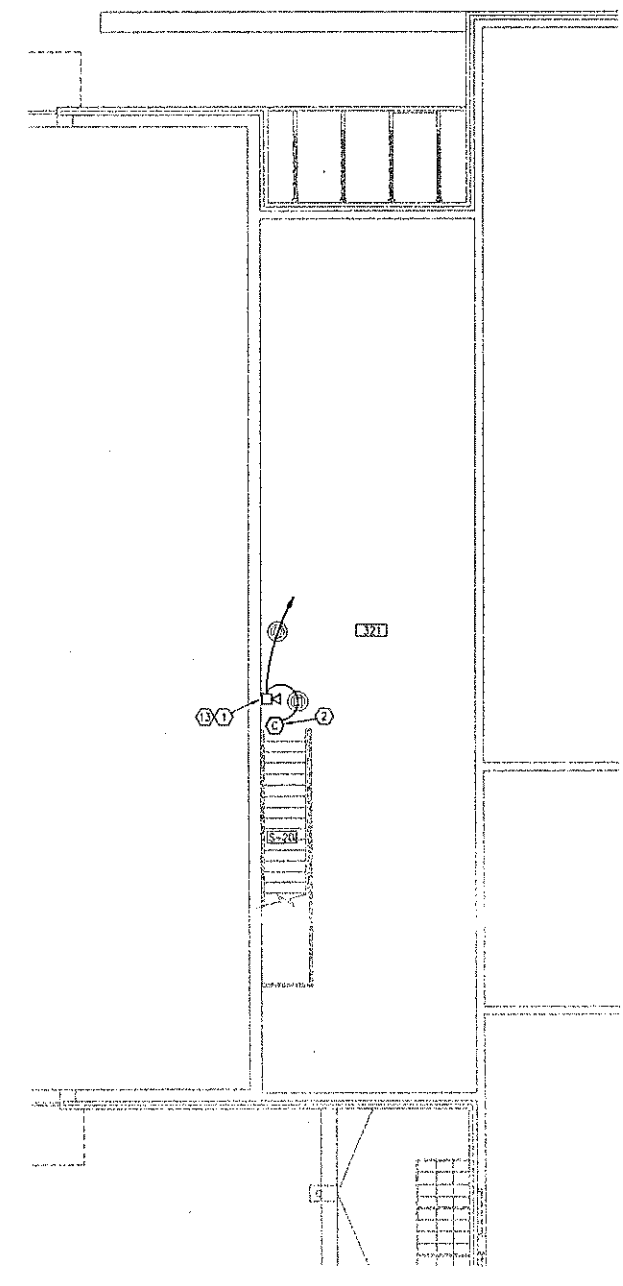
**SHEET E3.7**  
 MEZZANINE PLAN - SOUTHWEST  
 INTERCOM AND CLOCKS

- NOTES:**
1. IN ALL AREAS WITH EXPOSED STRUCTURE, OR ON EXISTING WALLS.
  2. IN ALL AREAS WITH EXPOSED STRUCTURE, DEVICES SHALL BE SURFACE MOUNTED WITHIN ENCLOSURE AND REQUIRED HARDWARE FOR THE TYPE DEVICE.
  3. WHERE POSSIBLE, INSTALL CABLE WITHIN THE CABLE TRAY. PROPERLY SEPARATE EACH SYSTEMS CABLE WITHIN AN ISOLATED SECTION OF THE TRAY.

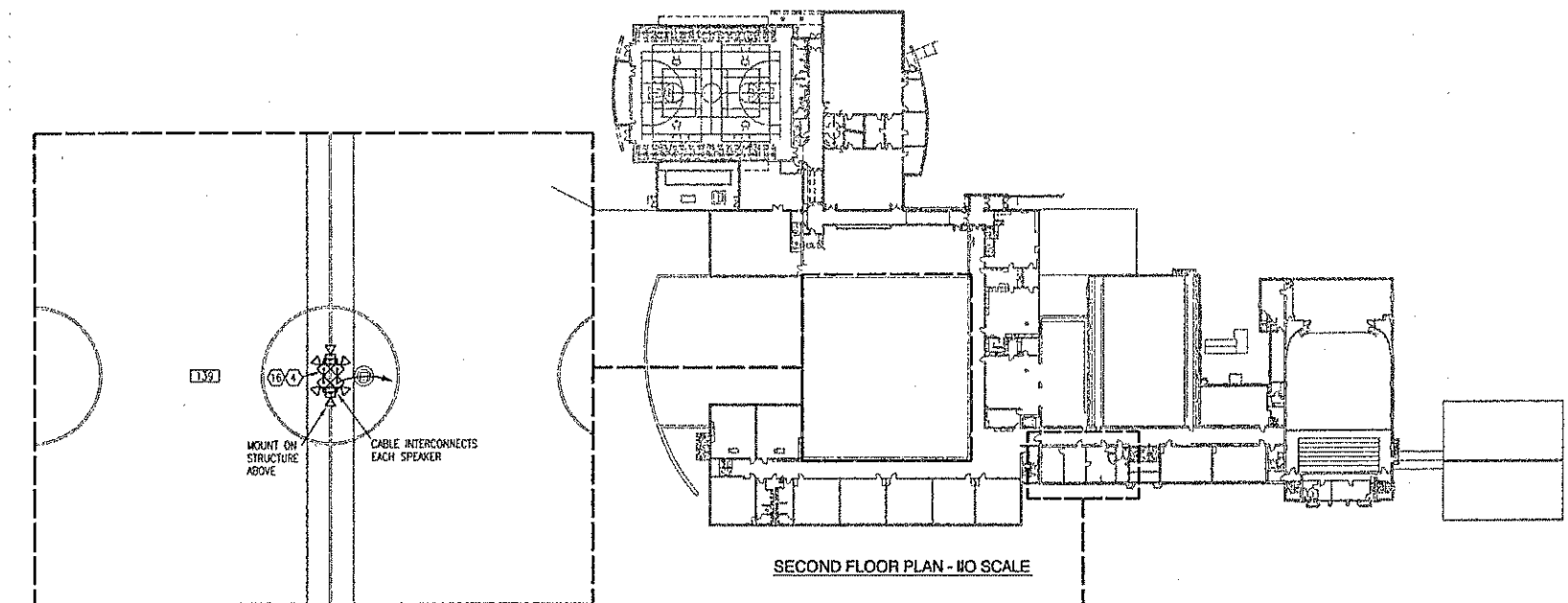
- NOTES:**
- 1 TALK BACK TYPE SPEAKER.
  - 2 MOUNT DEVICE ON WALL AT 48" AFF.
  - 3 18" DIAMETER CLOCK.
  - 4 MOUNT WITHIN THE BAR JOIST, HORN TO BE DIRECTED 30"-40" DOWN.
  - 5 CONCEAL CABLING IN WALL WITH FLEXIBLE CONDUIT.
  - 6 CONTINUE WIRING TO EXISTING SCHOOL ADMINISTRATIVE OFFICE, SECOND FLOOR. CLOCK WIRING TERMINATES IN THE EXISTING MASTER CLOCK. COMMUNICATIONS CABLE GOES TO THE PUNCH DOWN CABINET (PDC).
  - 7 COORDINATE LOCATION OF SURFACE SPEAKER WITH STRUCTURE, DUCT WORK AND LIGHTING. DO NOT LOCATE ABOVE DUCTWORK OR OTHER OBSTRUCTIONS.
  - 8 EXISTING DEVICE TO BE USED.
  - 9 VERIFY MOUNTING LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
  - 10 INSTALL EQUIPMENT ENCLOSURE BOTTOM AT A MINIMUM OF 9'-4" AFF.
  - 11 INSTALL WITHIN SOFFIT ABOVE WINDOWS.
  - 12 INSTALL AT THE CENTER, BETWEEN GYMNASIUM DOORS.
  - 13 MOUNT DEVICE AT 10' AFF TO BOTTOM OF ENCLOSURE.
  - 14 VERIFY BACKBOX MOUNTING DETAILS BEFORE INSTALLING.
  - 15 EXTEND VESTIBULE SPEAKER IF ALTERNATE IS TAKEN.
  - 16 COORDINATE SPEAKER MOUNTING HARDWARE WITH FIRE ALARM SPEAKER HARDWARE IN THIS LOCATION.

**SPECIAL SYSTEMS LEGEND**

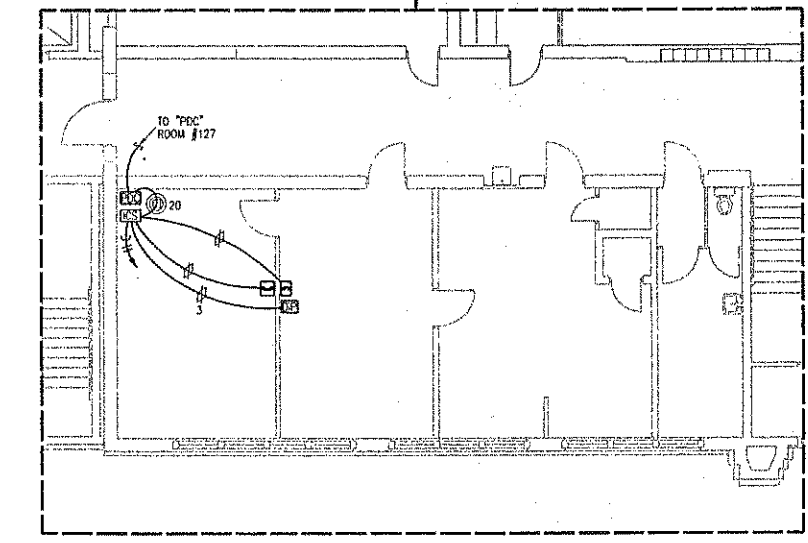
Ⓞ	CALL IN SWITCH
Ⓜ	MICROPHONE OUTLET
☎	INTERCOM CONTROLS - PHONE BASED SYSTEM
☎	PUNCH DOWN CABINET
Ⓜ	ADMINISTRATIVE DISPLAY
Ⓞ	MASTER CLOCK
Ⓞ	12" SQUARE CLOCK
Ⓞ	ROUND CLOCK, AS NOTED
Ⓞ	CEILING SPEAKER
Ⓞ	CEILING SPEAKER IN SURFACE ENCLOSURE
Ⓜ	HORN/SPEAKER
Ⓜ	COMBINATION CLOCK/SPEAKER WITH 12" ROUND CLOCK
Ⓞ	PENDANT MOUNTED SPEAKER
Ⓜ	WALL MOUNTED SPEAKER
Ⓜ	ADMINISTRATIVE TELEPHONES
Ⓜ	DEVICE WITH SECURITY GUARD
Ⓜ	#12 THINW GAGE
Ⓜ	NW #2245, (2) PWR #16 TWISTED, NON-SHIELDED, PLENUM
Ⓜ	NW #2241, (2) PWR #22, NON-SHIELDED, PLENUM
Ⓜ	WIRING/CABLE HOME RUN



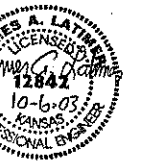
**MEZZANINE PLAN - SOUTHWEST**  
 1/8"=1'-0" INTERCOM AND CLOCKS NORTH



**PARTIAL SECOND FLOOR PLAN**  
 1/8"=1'-0" INTERCOM AND CLOCKS NORTH

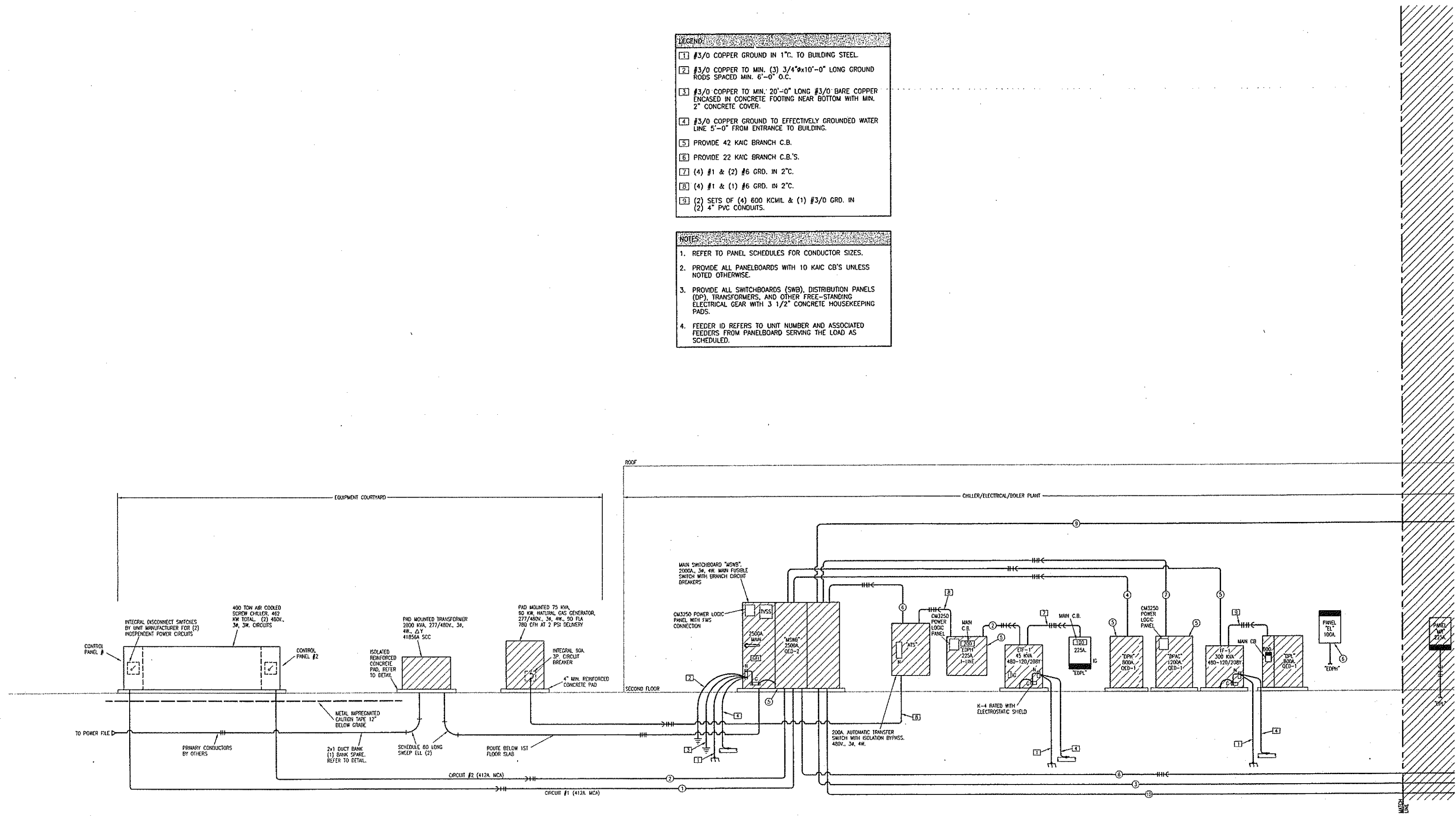


**PARTIAL SECOND FLOOR PLAN**  
 1/8"=1'-0" INTERCOM AND CLOCKS NORTH



- LEGEND:**
- [1] #3/0 COPPER GROUND IN 1" TO BUILDING STEEL.
  - [2] #3/0 COPPER TO MIN. (3) 3/4"x10'-0" LONG GROUND RODS SPACED MIN. 6'-0" O.C.
  - [3] #3/0 COPPER TO MIN. 20'-0" LONG #3/0 BARE COPPER ENCASED IN CONCRETE FOOTING NEAR BOTTOM WITH MIN. 2" CONCRETE COVER.
  - [4] #3/0 COPPER GROUND TO EFFECTIVELY GROUNDING WATER LINE 5'-0" FROM ENTRANCE TO BUILDING.
  - [5] PROVIDE 42 KAIC BRANCH C.B.'S.
  - [6] PROVIDE 22 KAIC BRANCH C.B.'S.
  - [7] (4) #1 & (2) #6 GRD. IN 2".
  - [8] (4) #1 & (1) #6 GRD. IN 2".
  - [9] (2) SETS OF (4) 600 KCMIL & (1) #3/0 GRD. IN (2) 4" PVC CONDUITS.

- NOTES:**
1. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES.
  2. PROVIDE ALL PANELBOARDS WITH 10 KAIC CB'S UNLESS NOTED OTHERWISE.
  3. PROVIDE ALL SWITCHBOARDS (SWB), DISTRIBUTION PANELS (DP), TRANSFORMERS, AND OTHER FREE-STANDING ELECTRICAL GEAR WITH 3 1/2" CONCRETE HOUSEKEEPING PADS.
  4. FEEDER ID REFERS TO UNIT NUMBER AND ASSOCIATED FEEDERS FROM PANELBOARD SERVING THE LOAD AS SCHEDULED.



**PARTIAL ELECTRICAL DISTRIBUTION RISER DIAGRAM**  
 NO SCALE

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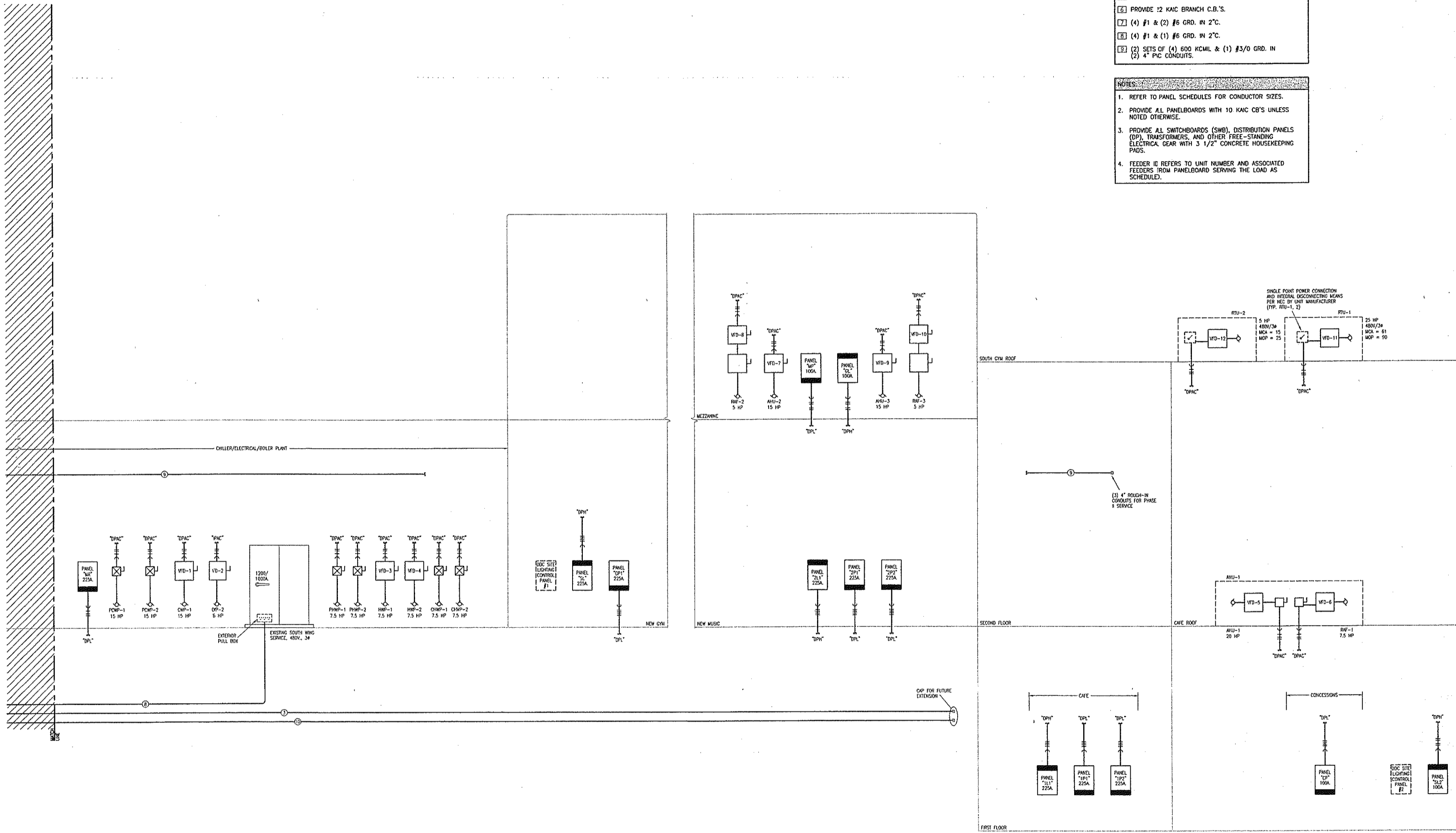


**Wamego High School Improvements Phase I**  
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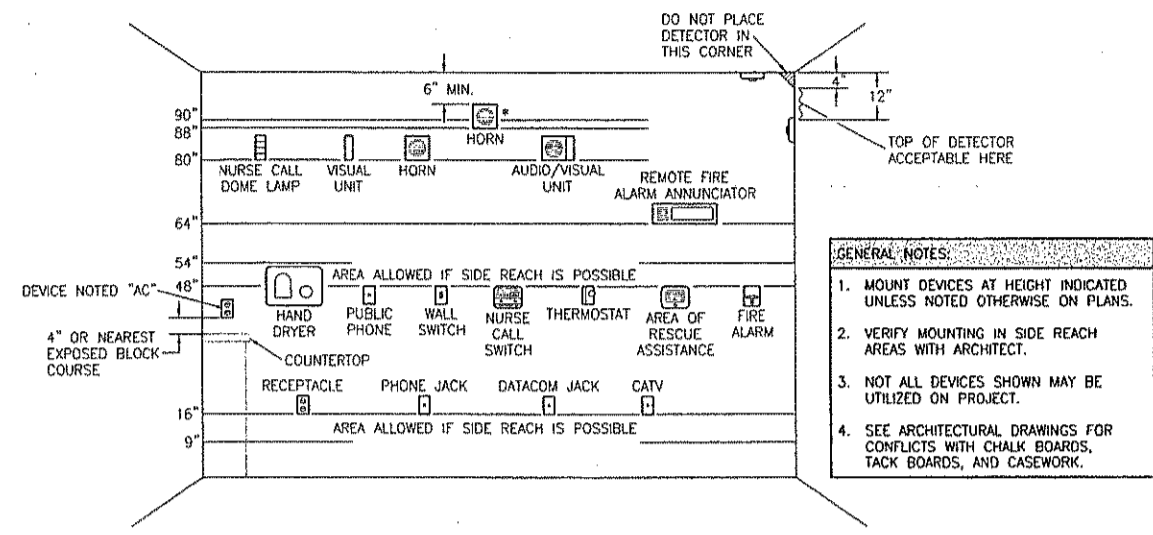
**SHEET E4.2**  
 ELECTRICAL DISTRIBUTION RISER DIAGRAM

- LEGEND:**
- 1) #3/0 COPPER GROUND IN 1" C. TO BUILDING STEEL.
  - 2) #3/0 COPPER TO MIN. (3) 3/4"x10'-0" LONG GROUND RODS SPACED MIN. 6'-0" O.C.
  - 3) #3/0 COPPER TO MIN. 20'-0" LONG #3/0 BARE COPPER ENCASED IN CONCRETE FOOTING NEAR BOTTOM WITH MIN. 2" CONCRETE COVER.
  - 4) #3/0 COPPER GROUND TO EFFECTIVELY GROUND WATER LINE 5'-C' FROM ENTRANCE TO BUILDING.
  - 5) PROVIDE 12 KAC BRANCH C.B.
  - 6) PROVIDE 12 KAC BRANCH C.B.'S.
  - 7) (4) #1 & (2) #6 GRD. IN 2"C.
  - 8) (4) #1 & (1) #6 GRD. IN 2"C.
  - 9) (2) SETS OF (4) 600 KCMIL & (1) #3/0 GRD. IN (2) 4" PVC CONDUITS.

- NOTES:**
1. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES.
  2. PROVIDE ALL PANELBOARDS WITH 10 KAC CB'S UNLESS NOTED OTHERWISE.
  3. PROVIDE ALL SWITCHBOARDS (SWB), DISTRIBUTION PANELS (DP), TRANSFORMERS, AND OTHER FREE-STANDING ELECTRICAL GEAR WITH 3 1/2" CONCRETE HOUSEKEEPING PADS.
  4. FEEDER ID REFERS TO UNIT NUMBER AND ASSOCIATED FEEDERS FROM PANELBOARD SERVING THE LOAD AS SCHEDULED.



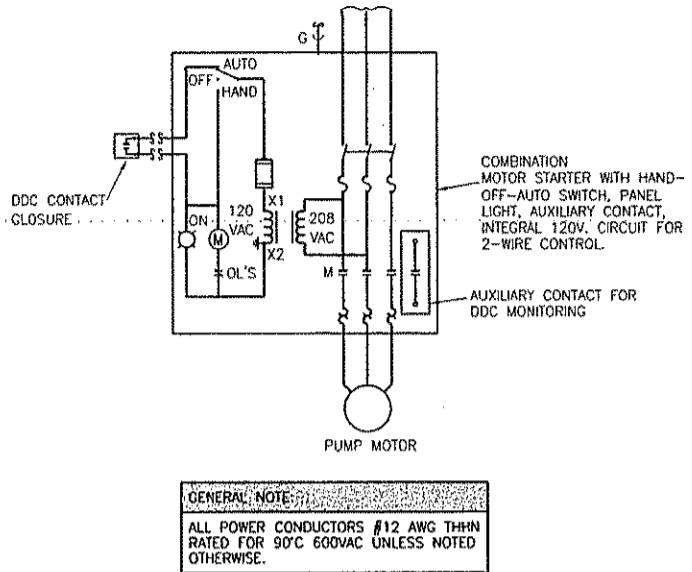
**PARTIAL ELECTRICAL DISTRIBUTION RISER DIAGRAM**  
 NO SCALE



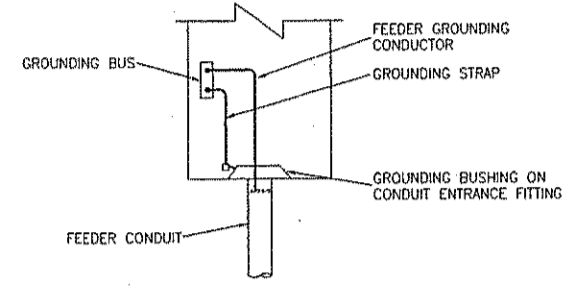
**ELECTRICAL DEVICE MOUNTING HEIGHTS**  
 NO SCALE

- DEVICE MOUNTING NOTES:**
1. VISUAL UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 1993).
  2. AUDIO UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 1993).  
 \* TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
  3. AUDIO/VISUAL UNIT DEVICE, BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 1993).
  4. BELL STATION HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) (ADA 1993).

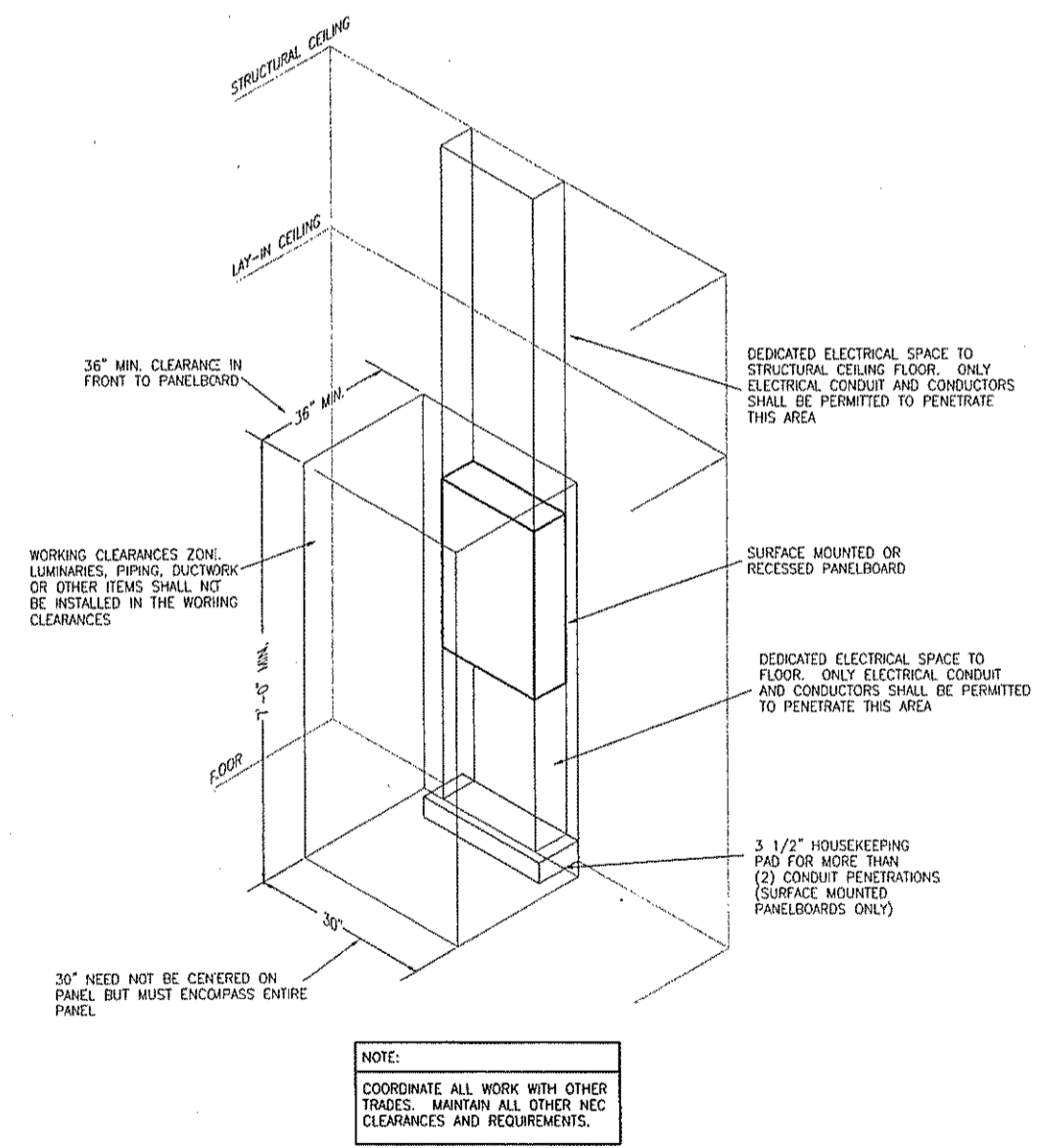
- GENERAL NOTES:**
1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.
  2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.
  3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.
  4. SEE ARCHITECTURAL DRAWINGS FOR CONFLICTS WITH CHALK BOARDS, TACK BOARDS, AND CASEWORK.



**TYPICAL CMS SCHEMATIC**  
 NO SCALE

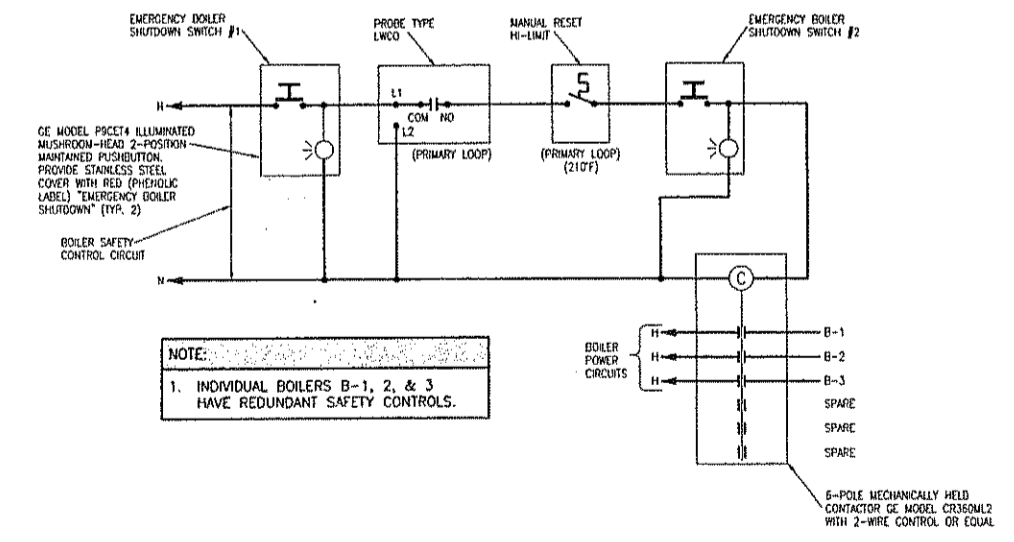


**EMERGENCY PANEL GROUNDING DETAIL**  
 NO SCALE (PANEL #EDPL)



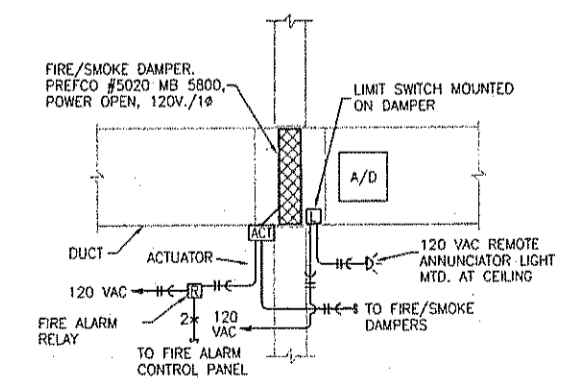
**PANELBOARD INSTALLATION DETAIL**  
 NO SCALE

**NOTE:**  
 COORDINATE ALL WORK WITH OTHER TRADES. MAINTAIN ALL OTHER NEC CLEARANCES AND REQUIREMENTS.



**BOILER EMERGENCY SHUTDOWN DETAIL**  
 NO SCALE

**NOTE:**  
 1. INDIVIDUAL BOILERS B-1, 2, & 3 HAVE REDUNDANT SAFETY CONTROLS.



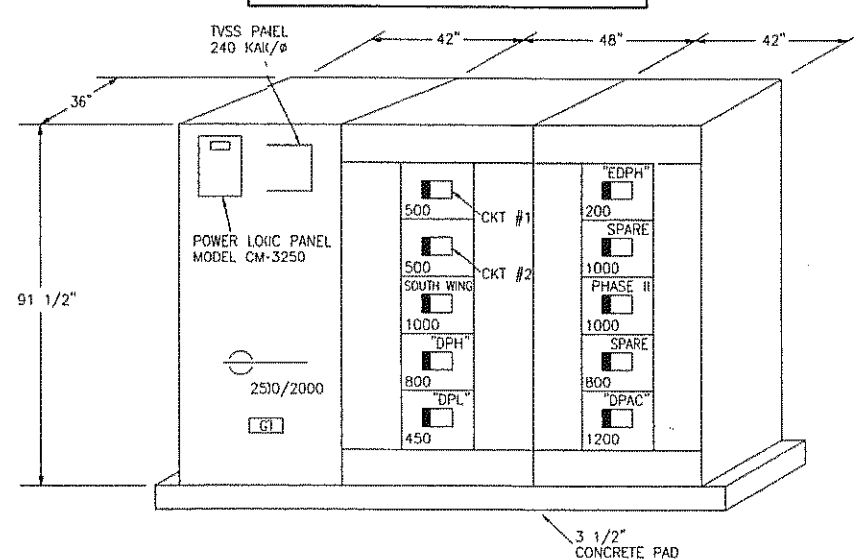
**FIRE/SMOKE DAMPER DETAIL**  
 NO SCALE

**The Ken Ebert Design Group**  
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**Wamego High School Improvements**  
 Phase I  
 Wamego Public Schools - Unified School District 320  
 801 North Lincoln Street  
 Wamego, Kansas 66547

NOTES:  
1. SWITCHBOARD SHALL BE FULLY FRONT AND REAR ACCESSIBLE.  
2. SECTIONS SHALL BE "DOUBLE DENSITY" TYPE.  
3. SWITCHGEAR SPACES HAVE NOT BEEN SHOWN. PROVIDE MINIMUM 72" TOTAL CIRCUIT BREAKER MOUNTING SPACE FOR EACH OF THE (2) BRANCH DISTRIBUTION SECTIONS.



MAIN SWITCHBOARD DETAIL  
NO SCALE (MSWB)

MAIN CIRCUIT BREAKER DISTRIBUTION SWITCHBOARD SCHEDULE  
MANUFACTURER: SQUARE D QED-2  
CLASS: 2500A . . . BUS BRACING: 100K A.I.C.  
FEEDER: (6) SETS OF (4) 600 KCML IN (6) 4" PVC

NOTES:  
1. AVAILABLE FAULT CURRENT: 41,000A INSTANTANEOUS (MAXIMUM).  
2. PROVIDE 42 KAIC C.B.'S MINIMUM.  
3. PROVIDE WITH CM3250 POWER LOGIC MONITORING AND CT'S.

CIRCUIT BREAKER DISTRIBUTION PANELBOARD SCHEDULE  
MANUFACTURER: SQUARE D I-LINE  
CLASS: 277/480 VOLTS, 3 PHASE, 4 WIRE  
FEEDER: (4) #4/0 & (1) #6 GRD. IN 2 1/2" C.

NOTES:  
1. 26" WIDE, 6 1/2" DEEP, 65" HIGH, 45" C.B. MOUNTING SPACE.  
2. PROVIDE POWER LOGIC CT EXTENSION.  
3. PROVIDE HOUSEKEEPING PAD.  
4. PROVIDE 42 KAIC C.B.'S MINIMUM.  
5. PROVIDE WITH CM3250 POWER LOGIC MONITORING AND CT'S.

CIRCUIT BREAKER DISTRIBUTION SWITCHBOARD SCHEDULE  
MANUFACTURER: SQUARE D QED-1  
CLASS: 277/480 VOLTS, 3 PHASE, 4 WIRE  
FEEDER: (2) SETS OF (4) 600 KCML & (1) #1/0 GRD. IN (2) 4" C.

NOTES:  
1. SWITCHGEAR FOOTPRINT: 42"x24" DEEP, FRONT AND REAR ACCESSIBLE, 117" TOTAL C.B. MOUNTING SPACE.  
2. PROVIDE HOUSEKEEPING PAD.  
3. PROVIDE 42 KAIC C.B.'S MINIMUM.

CIRCUIT BREAKER DISTRIBUTION SWITCHBOARD SCHEDULE  
MANUFACTURER: SQUARE D QED-1  
CLASS: 277/480 VOLTS, 3 PHASE, 4 WIRE  
FEEDER: (3) SETS OF (4) 600 KCML & (1) #3/0 GRD. IN (3) 4" C.

NOTES:  
1. 42" WIDE, 24" DEEP, 117" TOTAL C.B. MOUNTING SPACE.  
2. PROVIDE 42 KAIC C.B.'S MINIMUM.  
3. PROVIDE HOUSEKEEPING PAD.  
4. PROVIDE WITH CM3250 POWER LOGIC MONITORING AND CT'S.

CIRCUIT BREAKER DISTRIBUTION SWITCHBOARD SCHEDULE  
MANUFACTURER: SQUARE D QED-1  
CLASS: 277/480 VOLTS, 3 PHASE, 4 WIRE  
FEEDER: (2) SETS OF (4) 600 KCML & (1) #3/0 GRD. IN (2) 4" C., VIA TRANSFORMER TF-1

NOTES:  
1. (2) 24" DEEP SECTIONS; (1) 42" WIDE DOUBLE ROW, (1) 36" WIDE MAIN; 117" TOTAL C.B. MOUNTING SPACE.  
2. PROVIDE 10 KAIC C.B.'S MINIMUM.  
3. FRONT ACCESSIBLE ONLY.  
4. PROVIDE HOUSEKEEPING PAD.

CIRCUIT BREAKER DISTRIBUTION SWITCHBOARD SCHEDULE  
MANUFACTURER: SQUARE D QED-1  
CLASS: 277/480 VOLTS, 3 PHASE, 4 WIRE  
FEEDER: (3) SETS OF (4) 600 KCML & (1) #3/0 GRD. IN (3) 4" C.

NOTES:  
1. 42" WIDE, 24" DEEP, 117" TOTAL C.B. MOUNTING SPACE.  
2. PROVIDE 42 KAIC C.B.'S MINIMUM.  
3. PROVIDE HOUSEKEEPING PAD.  
4. PROVIDE WITH CM3250 POWER LOGIC MONITORING AND CT'S.

PANELBOARD SCHEDULE  
PANEL NO.: "CP"  
LOCATION: . . .  
KALIC: 10  
MANNS: 100A, MLO

PANELBOARD SCHEDULE  
PANEL NO.: "EDPL"  
LOCATION: . . .  
KALIC: 10  
MANNS: 225A, 100A, MCB

PANELBOARD SCHEDULE  
PANEL NO.: "EL" (EMERGENCY LIGHTING)  
LOCATION: . . .  
KALIC: 22  
MANNS: LOGA

PANELBOARD SCHEDULE  
PANEL NO.: "SP1"  
LOCATION: . . .  
KALIC: 10  
MANNS: 225A, MLO

PHASE LOADS  
PHASE WATTS CONN. DIV/SD. AMPERES CONN. DIV/SD. CONNECTED LOAD OVERSPED LOAD

PHASE LOADS  
PHASE WATTS CONN. DIV/SD. AMPERES CONN. DIV/SD. CONNECTED LOAD OVERSPED LOAD

PHASE LOADS  
PHASE WATTS CONN. DIV/SD. AMPERES CONN. DIV/SD. CONNECTED LOAD OVERSPED LOAD

PHASE LOADS  
PHASE WATTS CONN. DIV/SD. AMPERES CONN. DIV/SD. CONNECTED LOAD OVERSPED LOAD

NOTES:  
1. PROVIDE ISOLATED GROUND BUS.  
2. PROVIDE 10 KAIC C.B.'S.

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