

USD 320 MULTIPURPOSE BUILDING

WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547

ORIGINAL CONTRACT DOCUMENTS

Owner:

USD 320 SCHOOL DISTRICT
1008 8TH STREET
WAMEGO, KS 66547

ARCHITECT:

BBN ARCHITECTS, INC.
228 POYNTZ AVE.
MANHATTAN, KS 66502
TELEPHONE: (785) 776-4912

MEP ENGINEER:

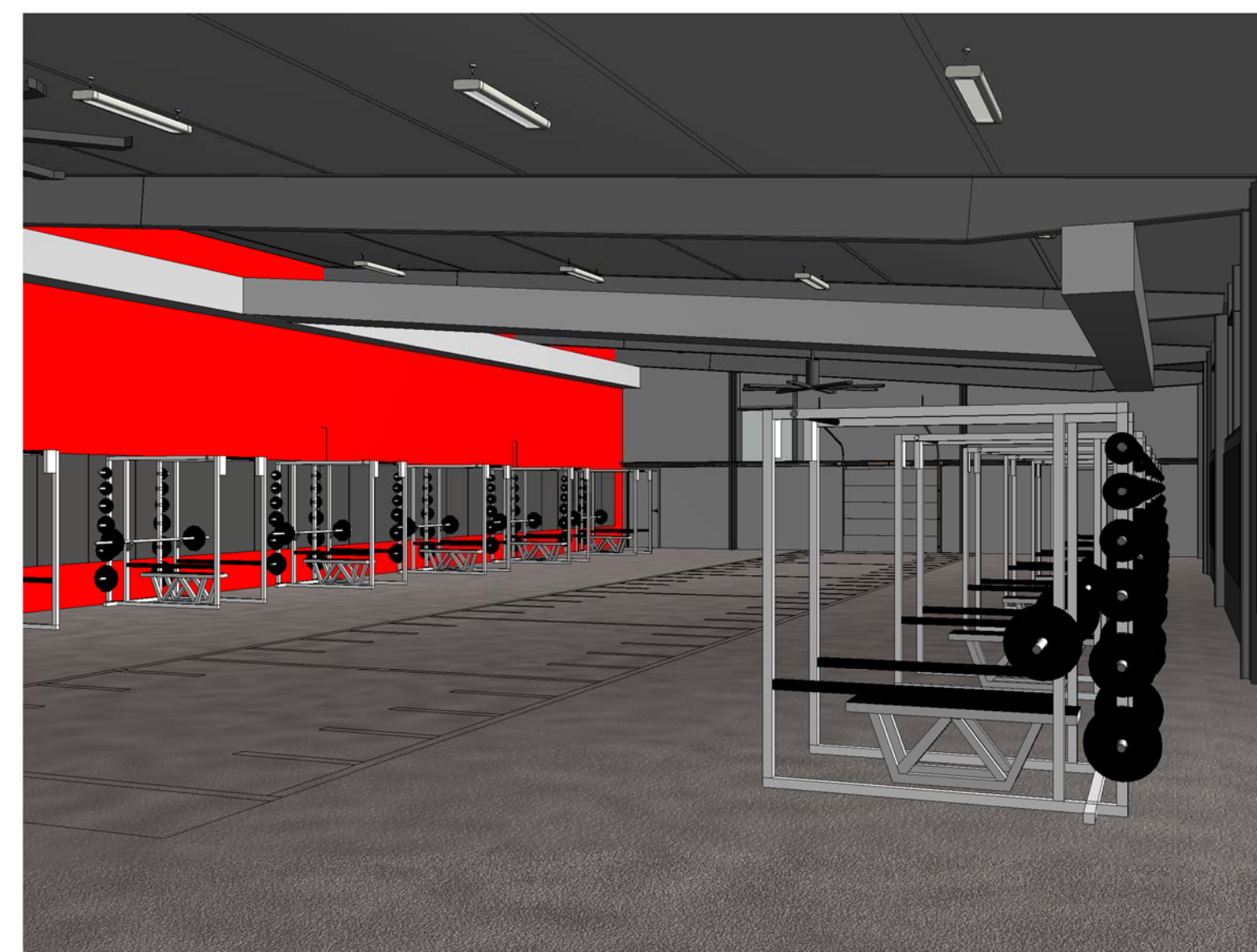
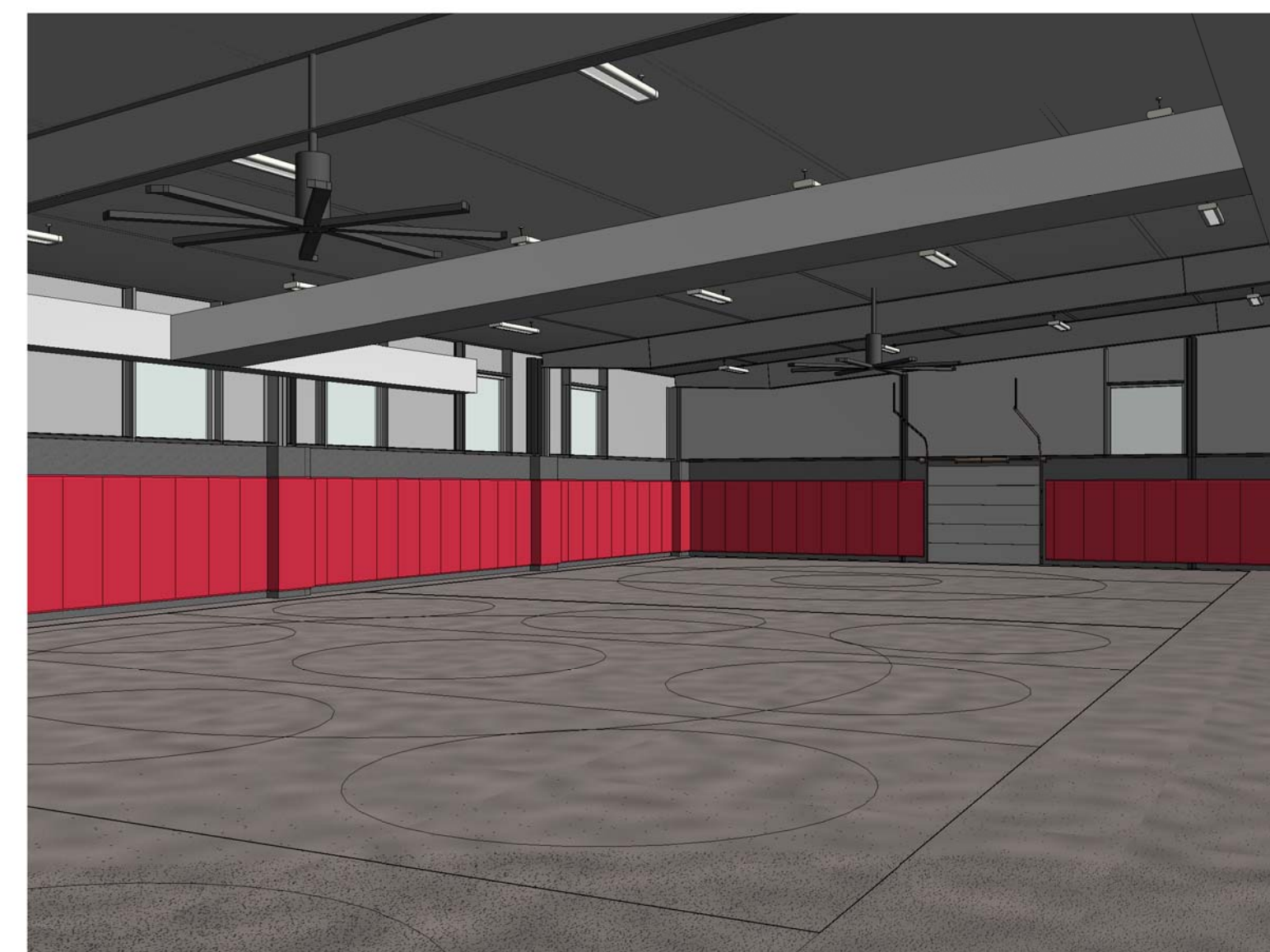
ORAZEM & SCHALORA ENGINEERING, P.A.
2312 ANDERSON AVE.
MANHATTAN, KS 66502

STRUCTURAL ENGINEER:

DUDLEY WILLIAMS AND ASSOCIATES, P.A.
230 S. LAURA SUITE #200
WICHITA, KS 67211

CIVIL ENGINEER:

SMH CONSULTANTS
2017 VANESTA PL.
MANHATTAN, KS 66503

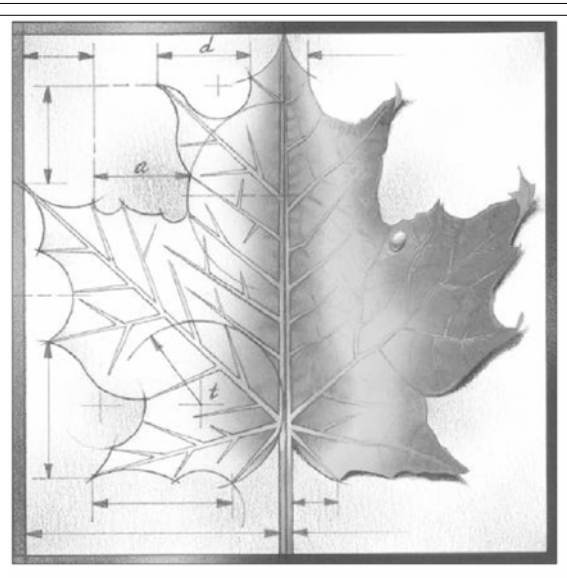


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GENERAL NOTES

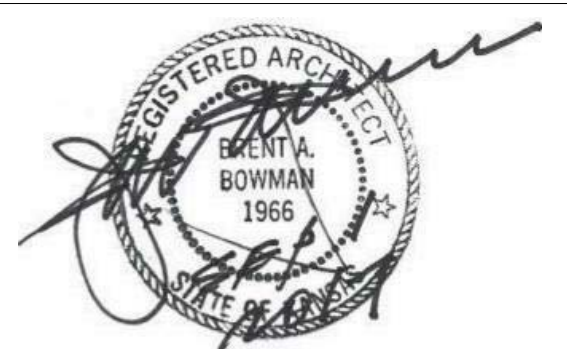
1. GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS & DETAILS.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
3. DESIGN DOCUMENTS HAVE BEEN PREPARED DESCRIBING GENERAL REQUIREMENTS FOR WORK AT THE EXISTING SITE. IDENTIFICATION OF EXISTING CONDITIONS, SHOWN ON THE PLANS, IS BASED ON A GENERAL REVIEW OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS TO THE PROJECT SITE.
7. WHERE DISCREPANCIES EXIST IN THE DOCUMENTS THE MOST STRINGENT SHALL APPLY.
8. PATCH, FINISH AND REPAINT ANY WALLS, FLOOR AND CEILINGS DAMAGED OR REMOVED WHILE INSTALLATION OF NEW WATER PIPING.
9. REMOVE AND DISPOSE OF ALL EXISTING FIXTURES, CASEWORK, PARTITIONS, CEILINGS, INSULATION, AND ALL OTHER FINISHES REQUIRED PRIOR TO RENOVATION WORK.



BBN

BBN ARCHITECTS INC
228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect.



Project Number: 17036

Date: 9/1/17

Project Name:

**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:

TITLE SHEET

Sheet:

T101

Of

GENERAL INFORMATION

LOCATION: USD 320 MULTIPURPOSE BUILDING
WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547

OWNER INFORMATION: USD 320 SCHOOL DISTRICT
1008 9TH STREET
WAMEGO, KS 66547

RESPONDING FIRE DEPARTMENT: WAMEGO FIRE DEPARTMENT
428 LINCOLN AVE
WAMEGO, KS 66547
(785) 456-8593

ARCHITECT: BEN ARCHITECTS, INC.
238 PONTIAC AVE.
MANHATTAN, KS 66502
TELEPHONE: (785) 778-4412

PROJECT CONSTRUCTION PURPOSE FOR SUBMITTAL: NEW CONSTRUCTION

AUTHORITY HAVING JURISDICTION: WAMEGO FIRE DEPARTMENT
428 LINCOLN AVE
WAMEGO, KS 66547
(785) 456-8593

PROJECT DESCRIPTION

METAL BUILDING CONSTRUCTION FOR USE OF ATHLETIC TRAINING AND CONDITIONING.

APPLICABLE CODES

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL ENERGY CODE

2011 NATIONAL ELECTRIC CODE
2012 INTERNATIONAL FIRE CODE
KANSAS FIRE PREVENTION CODE
2010 ADA STANDARD FOR ACCESSIBLE DESIGN
2010 ASHRAE 90.1

2010 NFPA 10
2010 NFPA 13
2010 NFPA 14
2010 NFPA 25
2010 NFPA 12
2009 NFPA 42B

BUILDING HEIGHTS AND AREAS

BASIC ALLOWABLE AREA AND HEIGHT: ALLOWABLE AREA: 14,500 S.F.
ALLOWABLE HEIGHT: 55 FEET
ACTUAL AREA: 11,904 S.F.
ACTUAL HEIGHT: 19'-4"

CONSTRUCTION CLASSIFICATION

CONSTRUCTION TYPE: II B

STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS & TRUSSES:
BEARING EXTERIOR WALLS:
BEARING INTERIOR WALLS:
NONBEARING EXIT WALLS 1'0" X 30' FROM ADJACENT BUILDING OR PROPERTY LINE:
NONBEARING INTERIOR WALLS:
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:

0-HR
0-HR
0-HR
0-HR
0-HR
0-HR

OCCUPANCY CLASSIFICATION

E - EDUCATIONAL GROUP

EXIT WIDTH FACTORS

STAIRS: 30" / PERSON
DOORS, LEVEL TERRACES, RAMP: 20" / PERSON

NON-CONFORMING ITEMS

NONE

PASSIVE LIFE SAFETY SYSTEMS

CORRIDOR RATINGS: 1-HOUR (EXCEPTION USED- 1018.1 EXCEPTION 1)
EXIT STAIR ENCLOSURES: NONE INCLUDED
SHAFTS: NONE INCLUDED
OCCUPANCY SEPERATIONS: NONE REQUIRED

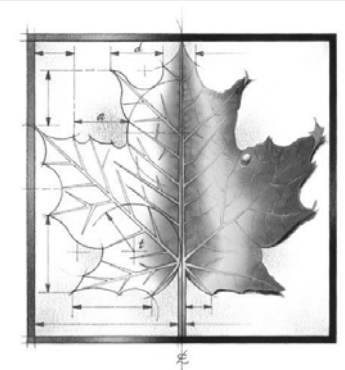
ACTIVE LIFE SAFETY SYSTEMS

FIRE ALARM: REQUIRED/PROVIDED
FACP: REQUIRED/PROVIDED
EMERGENCY VOICE ALARM COMMUNICATION: NOT REQUIRED
REMOTE ANNUNCIATOR PANEL: NOT REQUIRED
SMOKE DETECTION: REQUIRED/PROVIDED

EXIT SIGNS: REQUIRED/PROVIDED
EMERGENCY LIGHTS: REQUIRED/PROVIDED
BACKUP POWER: NOT REQUIRED
STANDPIPES: REQUIRED/PROVIDED
CF-25 AUTOMATIC SPRINKLERS: NOT REQUIRED
FIRE EXTINGUISHERS: REQUIRED/PROVIDED
FIRE PUMP: NOT REQUIRED
PRESSURIZED EXIT STAIRS: NOT REQUIRED
PRESSURIZED ELEVATORS: NOT REQUIRED
PULL STATIONS: REQUIRED/PROVIDED

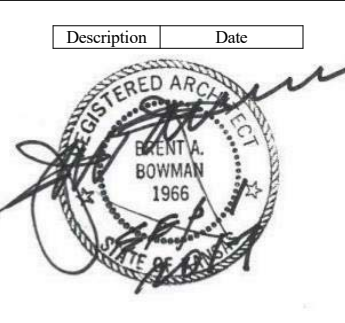
PER IBC SECTIONS 907.2
PER IBC SECTION 907.2.1.1
ELEVATOR LOBBIES, HVAC RETURN DUCTS 32,000 CFM, SUPPLY DUCTS > 10,000 CFM, 5 FEET OF FACP
BACKUP BY BATTERIES
CLASS I NET, LOCATIONS SHOWN ON CF09-
PER IBC SECTION 906.1 & NFPA 10
AT REQUIRED EXITS

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS/NOTES
	EXIT - EXTERIOR	
	EXIT - INTERIOR	EXITS FROM FLOOR OR ASSEMBLY OCCUPANTS OVER 50 OCCUPANTS
	FIRE EXTINGUISHER	
	FIRE EXTINGUISHER SPACING	75' RADIUS SHOWN ON FLOOR PLANS
	NON PROTECTED EXIT PATH	(NONE) OR NONE PER EXCEPTION OF FULLY SPRINKLERED A, B, E, F, M, S, U OCCUPANCY OR 1 1/2 OCCUPANCY SMOKE PARTITION WALLS AND FIRE RESISTIVE WALL RATING, DOORS LIMIT TRANSFER OF SMOKE AND SHALL HAVE INTERLOCKING
	1 HOUR EXIT PASSAGEWAY	1-HOUR FIRE BARRIER WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1-HOUR DOOR ASSEMBLY.
	2 HOUR EXIT PASSAGEWAY	2-HOUR FIRE BARRIER WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1 1/2-HOUR DOOR ASSEMBLY.
	1 HOUR EXIT STAIR ENCLOSURE (3 STORES OR LESS)	1-HOUR FIRE BARRIER WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1-HOUR DOOR ASSEMBLY.
	2 HOUR EXIT STAIR ENCLOSURE (4 STORES OR LESS)	2-HOUR FIRE BARRIER WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS. 1 1/2-HOUR DOOR ASSEMBLY.
	1 HOUR FIRE BARRIER (CGG & INCIDENTAL USE)	1-HOUR FIRE BARRIER WALL CONSTRUCTION, 3/4-HOUR DOOR ASSEMBLY, FIRE DAMPERS.
	2 HOUR FIRE BARRIER (CGG)	2-HOUR FIRE BARRIER WALL CONSTRUCTION, 1 1/2-HOUR DOOR ASSEMBLY, FIRE DAMPERS.
	1 HOUR SHAFT ENCLOSURE (3 STORES OR LESS)	1-HOUR FIRE BARRIER WALL CONSTRUCTION, 1-HOUR DOOR ASSEMBLY, FIRE-SMOKE DAMPERS.
	2 HOUR SHAFT ENCLOSURE (3 STORES OR LESS)	2-HOUR FIRE BARRIER WALL CONSTRUCTION, 1-HOUR DOOR ASSEMBLY, FIRE-SMOKE DAMPERS.
	SPRINKLERED INCIDENTAL USE AREAS	WALL CONSTRUCTION TO RESIST THE PASSAGE OF SMOKE FROM THE FLOOR TO FIRE-RATED FLOOR-CEILING ASSEMBLY. SELF-CLOSING DOORS WITH NO AIR TRANSFER GRILLES.
	ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (CLEAR WIDTH)	OCCUPANTS / REQUIRED WIDTH PROVIDED WIDTH
	FUEL/FIRE HYDRANT	DISTANCE FROM BUILDING SHOWN ON SITE PLAN
	ROOM DESIGNATION	ROOM TYPE / OCCUPANCY THE MAXIMUM ALLOWABLE OCCUPANTS
	ACCUMULATED OCCUPANT LOADS FOR COMPLEX PATHS	
	NON-WORK AREAS	EXISTING CONSTRUCTION NOT INCLUDED IN THIS RENOVATION PROJECT. ALL OTHER AREAS ARE EXISTING CONSTRUCTION TO BE REMODELED
	SPRINKLER-STANDPIPE RISER	
	FIRE DEPARTMENT CONNECTION	
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM ANNUNCIATOR PANEL	
	FIRE DEPARTMENT KNOCK BOX	
	EXIT SIGN	



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238 PONTIAC AVENUE,
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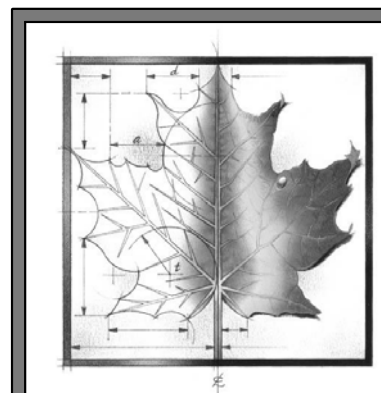
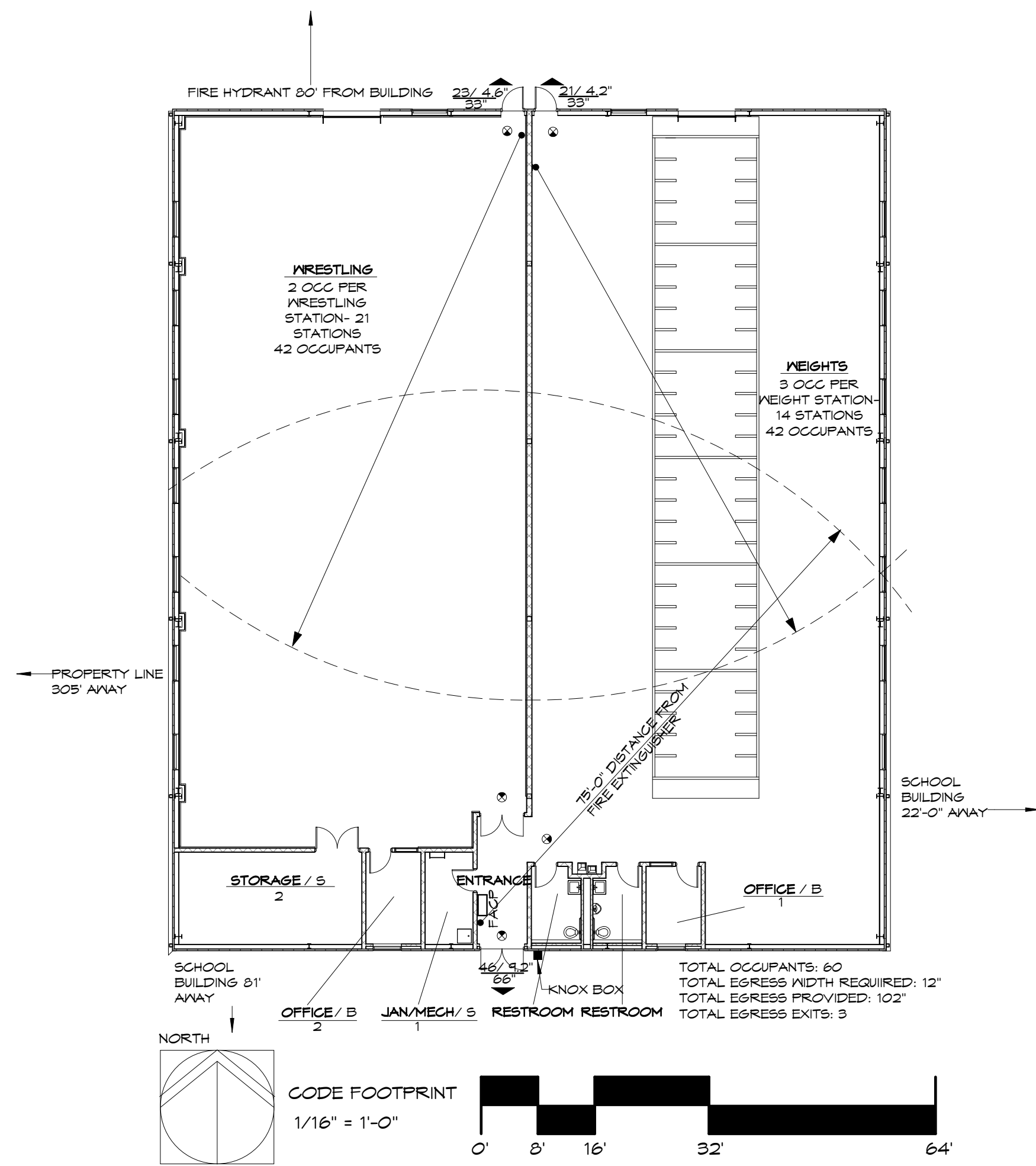
Project Number: 17036
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Project Name:
USD 320 MULTIPURPOSE BUILDING

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
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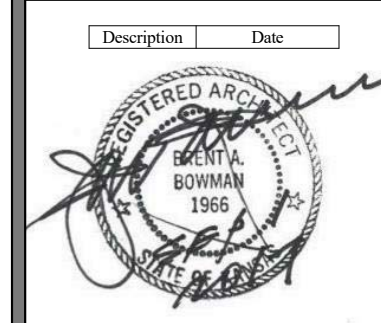
Sheet Title:
CODE REVIEW

Sheet:
CF101



BIN ARCHITECTS INC
23 PONTIAC AVENUE,
MANHATTAN, KANSAS 66502
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WWW.BINARCHITECTS.COM

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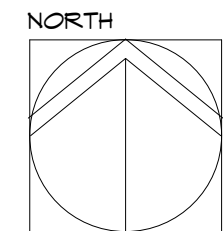
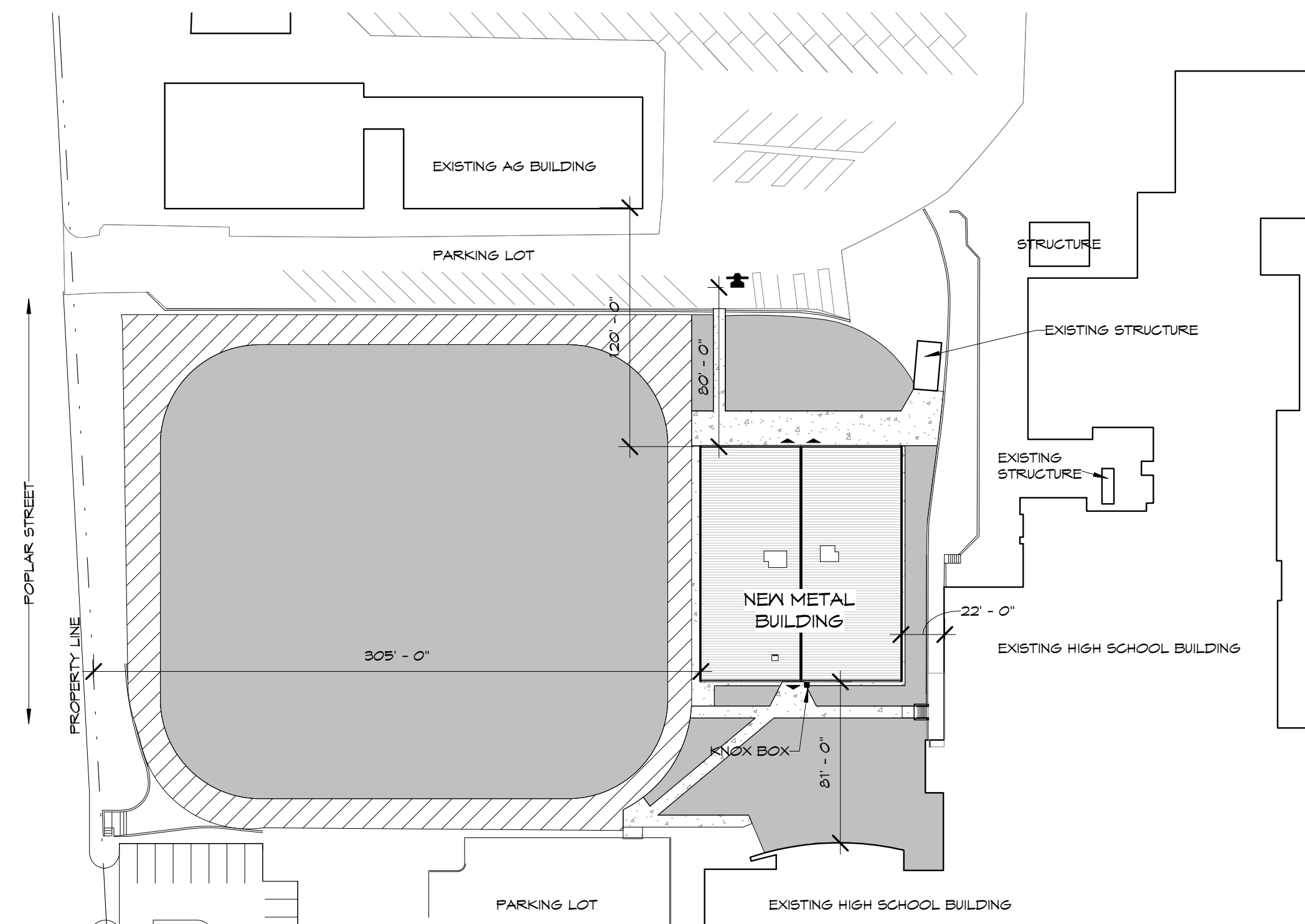
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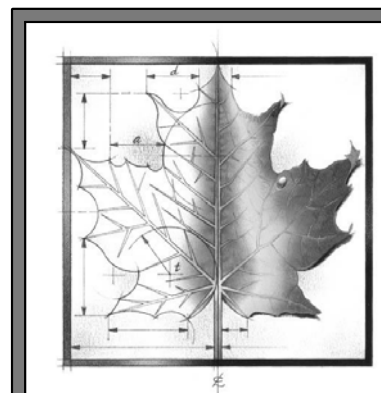
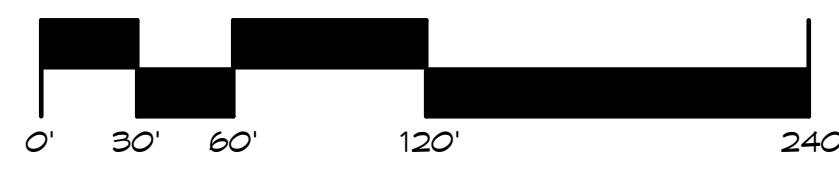
Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS. 66547**

Sheet Title:
CODE FOOTPRINT

Sheet:
CF102



CODE SITE PLAN
1" = 60'-0"



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Description	Date



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Date: **9/1/17**

Project Name:
**USD 320
MULTIPURPOSE
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Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS. 66547**

Sheet Title:

CODE SITE PLAN

Sheet:
CF103

LEGEND

[Symbol]	EXISTING BUILDING
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING TRACK TO BE REMOVED
[Symbol]	PROPOSED GRAVEL TRACK
[Symbol]	EXISTING SIDEWALK TO BE REMOVED & REPLACED
[Symbol]	PROPOSED SIDEWALK/CONCRETE
[Symbol]	EXIST SS
[Symbol]	EXISTING SANITARY SEWER
[Symbol]	SSS
[Symbol]	PROPOSED SANITARY SERVICE
[Symbol]	EXIST W
[Symbol]	EXISTING WATER LINE
[Symbol]	WS
[Symbol]	PROPOSED WATER SERVICE
[Symbol]	OE
[Symbol]	EXISTING ELECTRIC LINE
[Symbol]	UE
[Symbol]	PROPOSED ELECTRIC LINE
[Symbol]	G
[Symbol]	PROPOSED GAS SERVICE
[Symbol]	FO
[Symbol]	EXISTING TELEPHONE/FIBER OPTIC
[Symbol]	FO
[Symbol]	PROPOSED TELEPHONE/FIBER OPTIC

PROJECT ENGINEER BRETT M. LOUK, P.E.
SMH CONSULTANTS, P.A.
2017 VANESTA DRIVE, SUITE 110
MANHATTAN, KS 66503
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blouk@smhconsultants.com

ELECTRIC CITY OF WAMEGO
430 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-9119

WATER & SEWER CITY OF WAMEGO
430 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-9119

TELEPHONE WTC TELEPHONE SERVICE
ANDY BOECKMAN
1009 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-1000

CABLE COX COMMUNICATIONS
GLENN CALHOON
931 SW HENDERSON
TOPEKA, KS 66615
(785) 215-6705

GAS KANSAS GAS SERVICE
JULIE ROBLER
225 SETH CHILD ROAD
MANHATTAN, KS 66502
(785) 587-2339

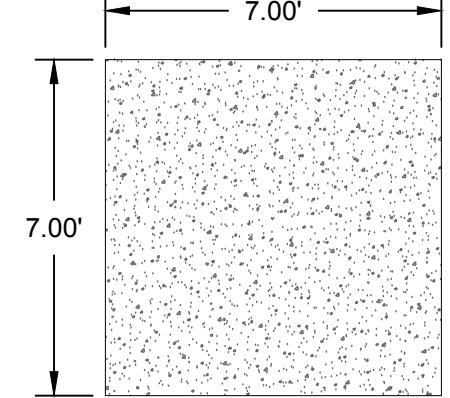
NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING THE WORK.
- ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED. THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION OF EACH PHASE OF THE PROJECT, THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL EXISTING SIDEWALKS ARE TO REMAIN UNLESS OTHERWISE NOTED.
- ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE. NO ON-SITE BURYING OF DEBRIS WILL BE ALLOWED.
- ALL HAUL SITES SELECTED FOR COLLECTION OF DEBRIS SHALL BE APPROVED BY THE OWNER/ENGINEER.
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED ON THESE PLANS SHALL MEET OR EXCEED STANDARDS SPECIFICATIONS OF THE CITY OF WAMEGO.
- FOR CONSTRUCTION OF NEW SIDEWALK, PARTIAL PANEL REMOVAL OF EXISTING SIDEWALK WILL NOT BE ALLOWED. IF A PARTIAL PANEL IS REMOVED, THEN ENTIRE PANEL SHALL BE REMOVED AND REPLACED AS NEEDED.

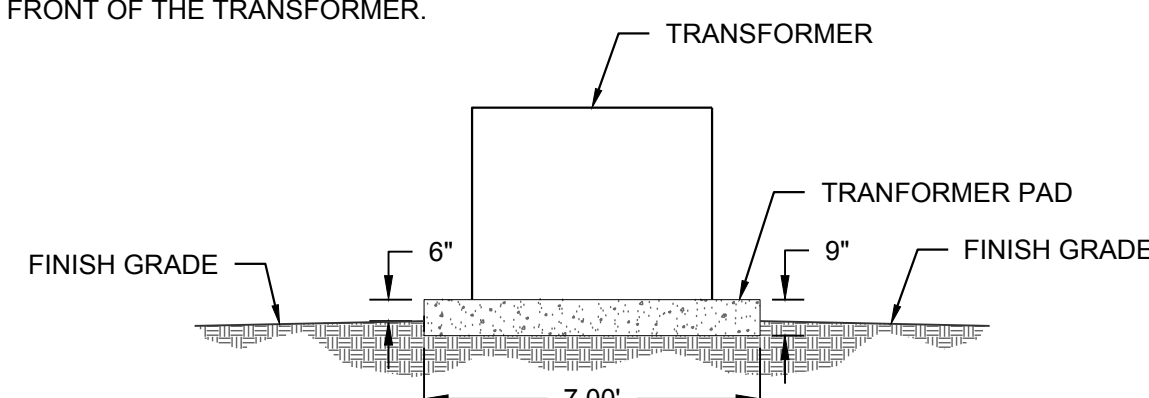
NOTE:

PROVIDE 3" MINIMUM CLEARANCE AT THE BACK AND SIDES AND 10" MINIMUM CLEARANCE AT THE FRONT OF THE TRANSFORMER.

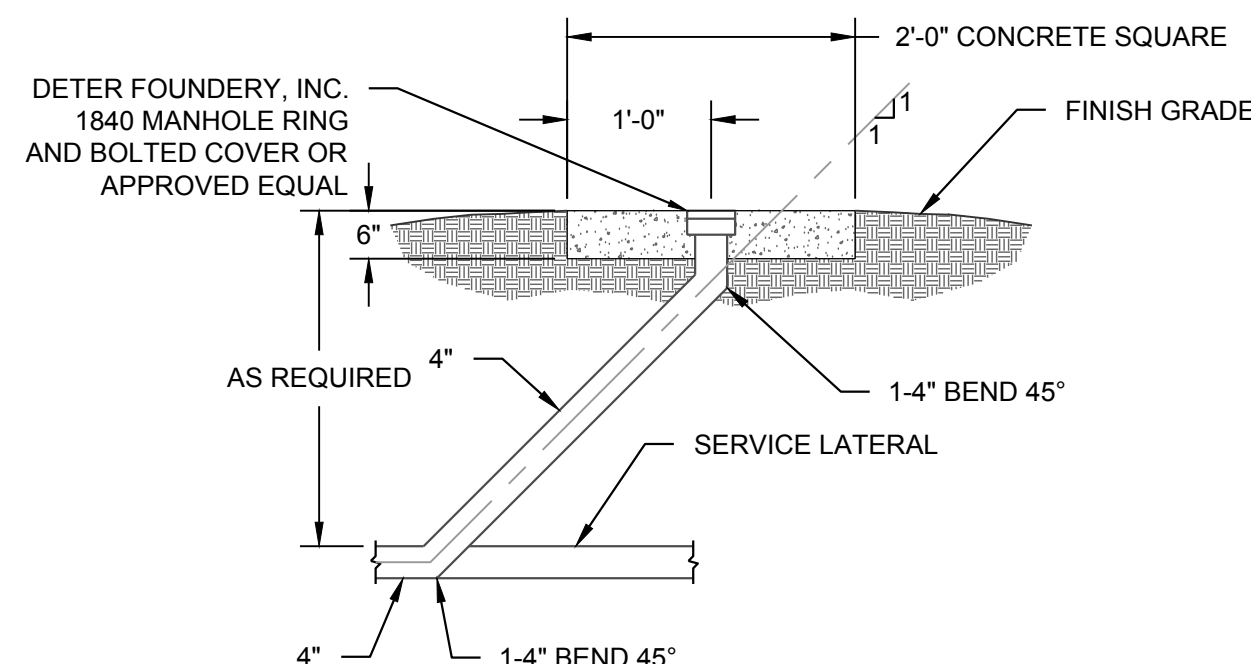
TRANSFORMER DOORS SHALL OPEN TOWARDS THE FRONT OF THE TRANSFORMER.



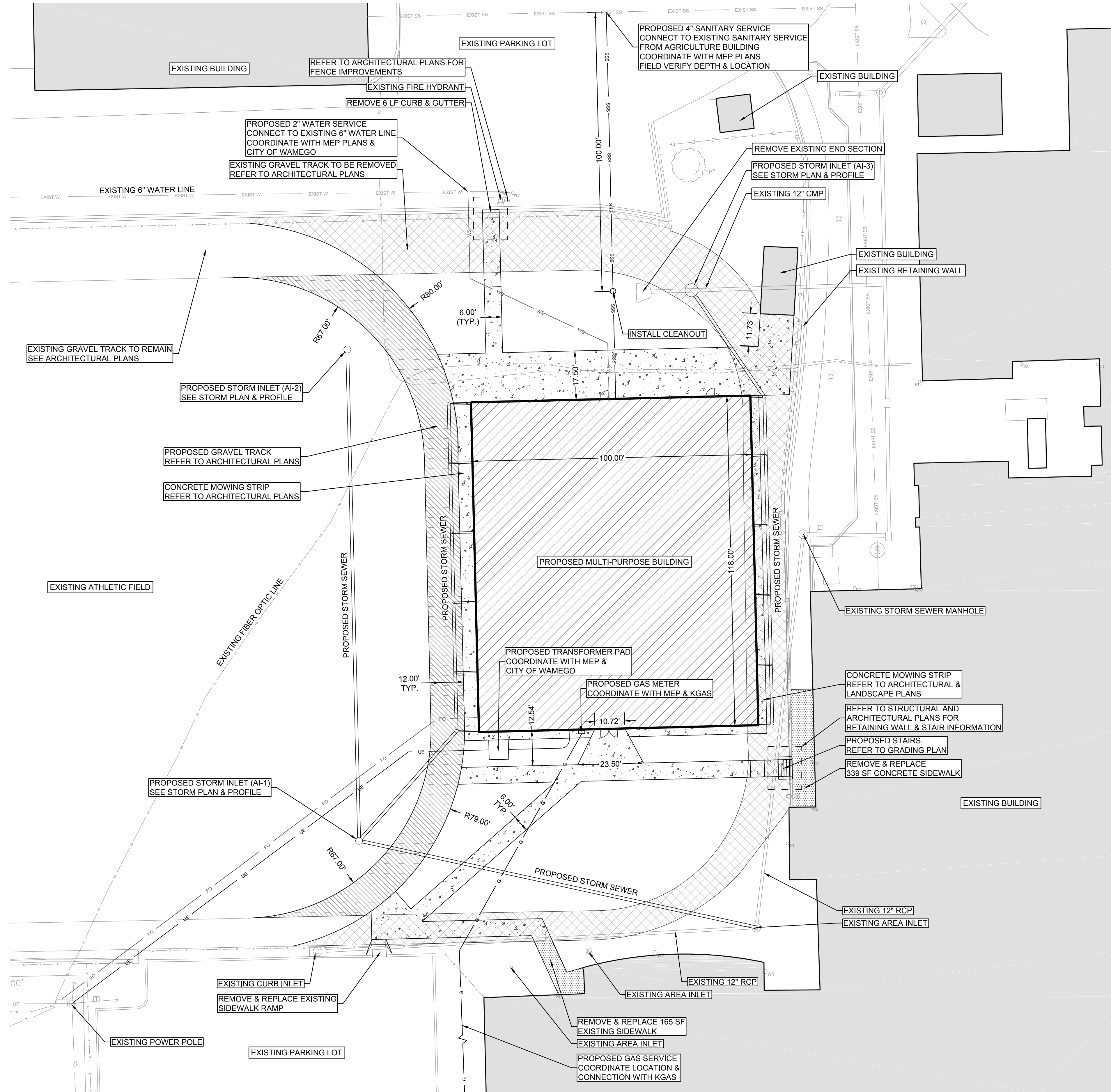
TRANSFORMER PAD PLAN DETAIL
NOT TO SCALE



TRANSFORMER PAD PROFILE DETAIL
NOT TO SCALE



CLEANOUT DETAIL
NOT TO SCALE



KANSAS ONE-CALL SYSTEM, INC.
The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.
Confirmation Number 17093029.

CALL BEFORE YOU DIG - DRILL - BLAST
800-344-7233
(DIG-SAFE)
(316) 687-3753
(FAX)

SAFETY NOTICE TO CONTRACTOR:

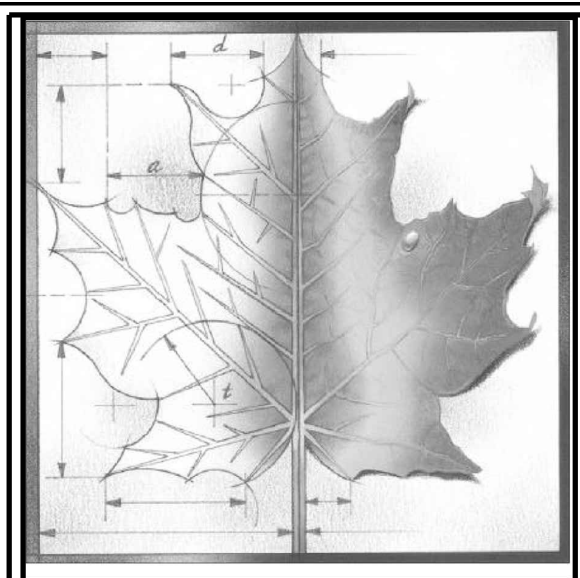
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

CAUTION - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

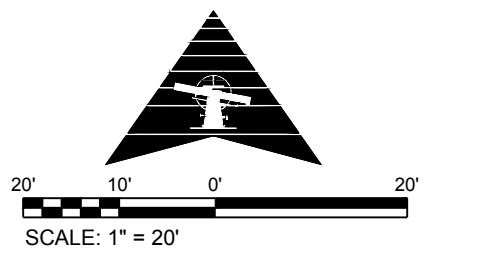
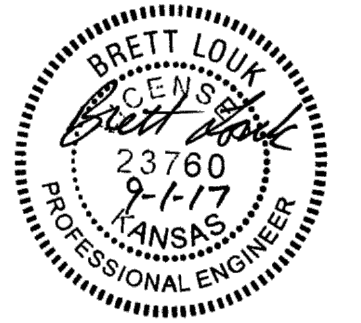


BBN

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SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760



REV	DESCRIPTION	DATE

Project Number: 16036

Date: 9/1/2017

Project Name:

USD 320 MULTIPURPOSE BUILDING

Project Address:

WAMEGO, KS

Sheet Title:

SITE PLAN

Sheet:

C1

OF:

NOTES:

ALL SOIL BROUGHT TO THE SITE AND IN SITU SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NO LESS THAN 200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. FILL MATERIAL SHALL BE APPROVED BY A LICENSED ENGINEER.

THE CROSS SLOPES OF ALL SIDEWALKS SHALL BE 1.5%.

ALL GRADE AGAINST THE BUILDING SHALL BE 3" BELOW FINISH FLOOR UNLESS OTHERWISE SPECIFIED.

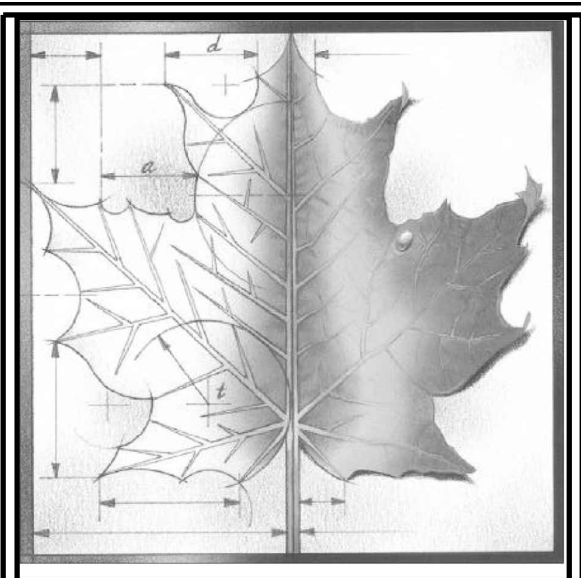
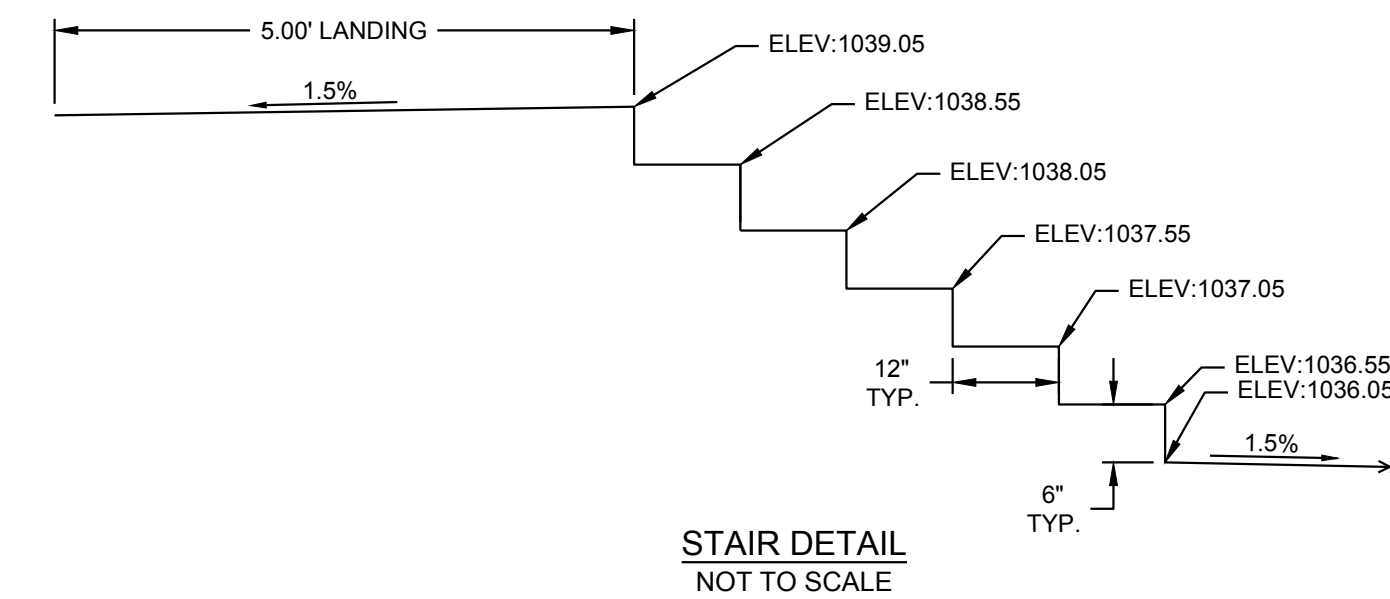
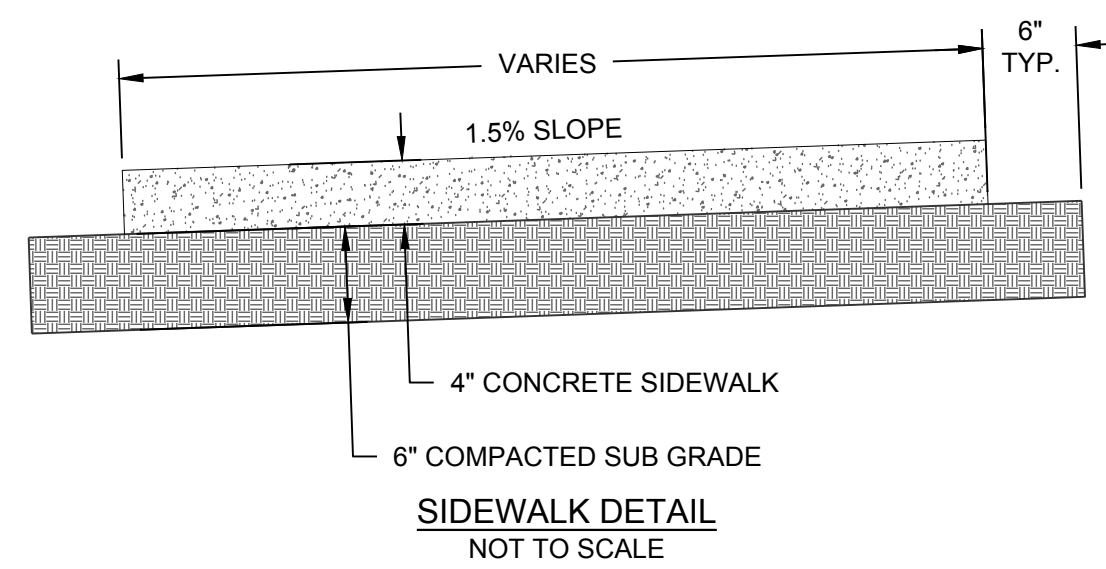
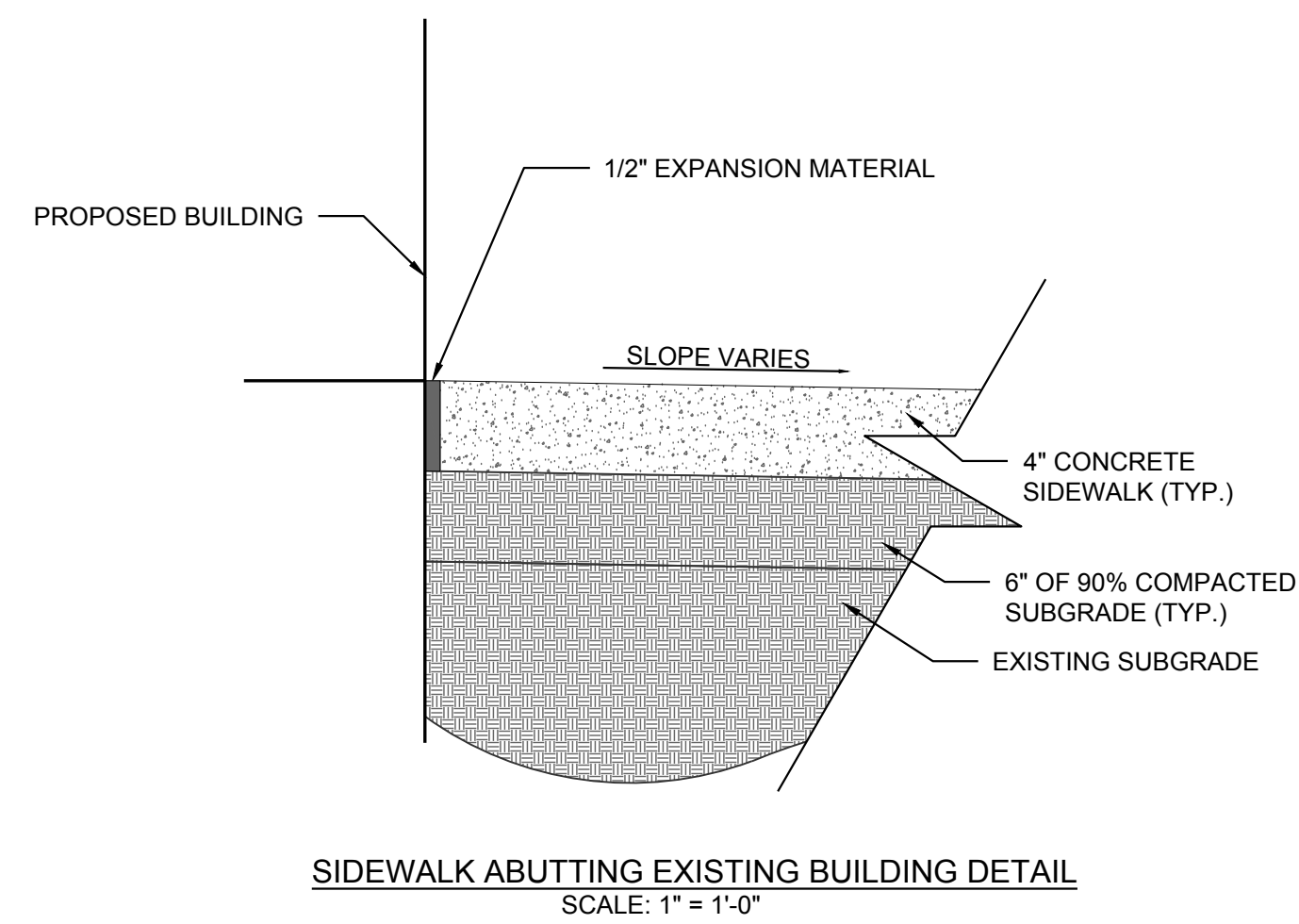
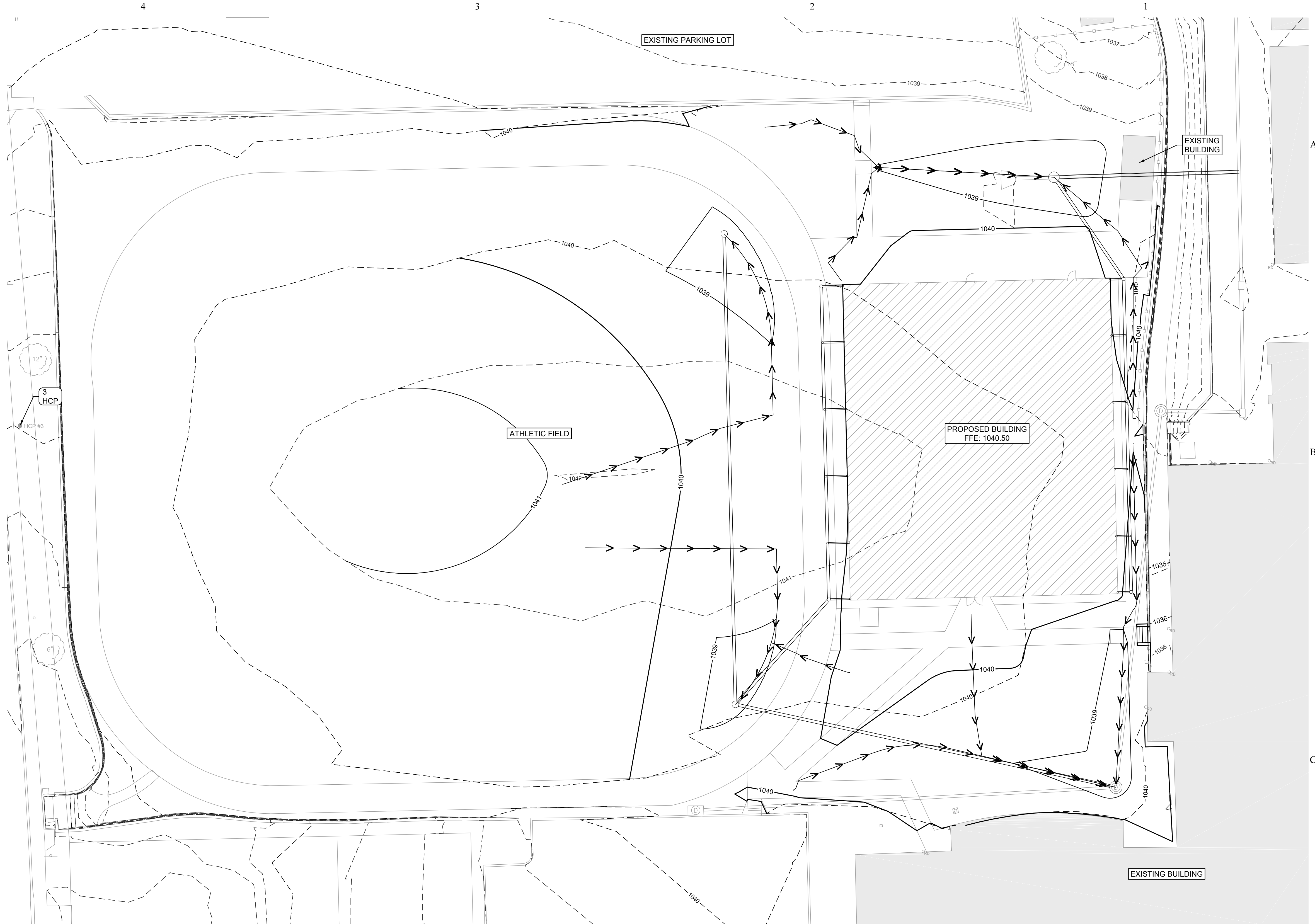
ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

ALL GRAVEL WITHIN THE GRADING LIMITS SHALL BE STRIPPED AND STOCKPILED.

HORIZONTAL CONTROL

HCP #1:	N:323152.693	E:1792004.900	ELEV:1023.72
HCP #2:	N:323164.935	E:1792395.733	ELEV:1018.27
HCP #3:	N:322719.126	E:1791984.832	ELEV:1045.23
HCP #4:	N:322430.049	E:1792055.488	ELEV:1046.86

NOTE: HCP'S 1, 2, & 4 ARE NOT VISIBLE ON THIS SHEET.



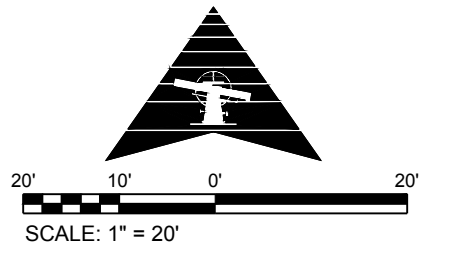
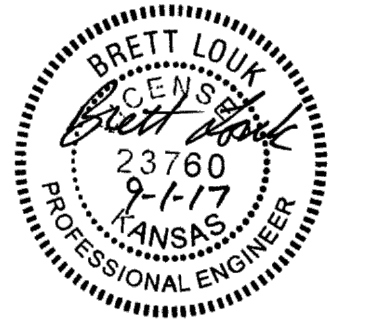
BBN

BBN ARCHITECTS INC
228 POYNIZ AVENUE
MANHATTAN, KANSAS 66502
PH: 785-776-4912 - FAX: 785-776-0944
WWW.BBNARCHITECTS.COM

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SMH CONSULTANTS

2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785)776-0541 • F (785)776-9760



REV	DESCRIPTION	DATE
-----	-------------	------

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Project Number: 16036

Date: 9/1/2017

Project Name:

**USD 320
MULTIPURPOSE
BUILDING**

Project Address:

WAMEGO, KS

Sheet Title:

**GRADING
PLAN**

Sheet:

C2

OF:

LEGEND

CNR	BUILDING CORNER
FG	FINISHED GRADE
EOP	EDGE OF PAVEMENT
TRA	EDGE OF TRACK
BOR	BOTTOM OF RAMP
TOR	TOP OF RAMP
HP	HIGH POINT OF SWALE
FL	FLOW LINE
TS	TOP OF STAIR
BS	BOTTOM OF STAIR
RP	RADIUS POINT
---	FLOW LINE OF SWALE

BUILDING CORNERS

POINT #	NORTHING	EASTING	DESCRIPTION
1000	322771.84	1792292.17	CNR
1001	322774.27	1792392.14	CNR
1002	322856.31	1792395.02	CNR
1003	322853.87	1792295.05	CNR

COORDINATES

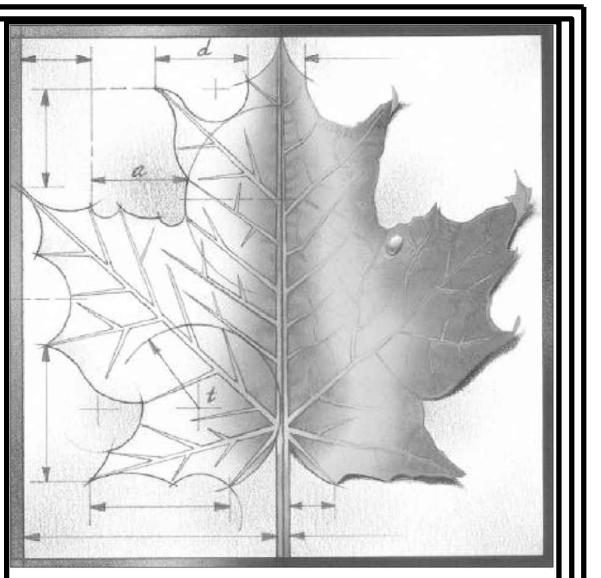
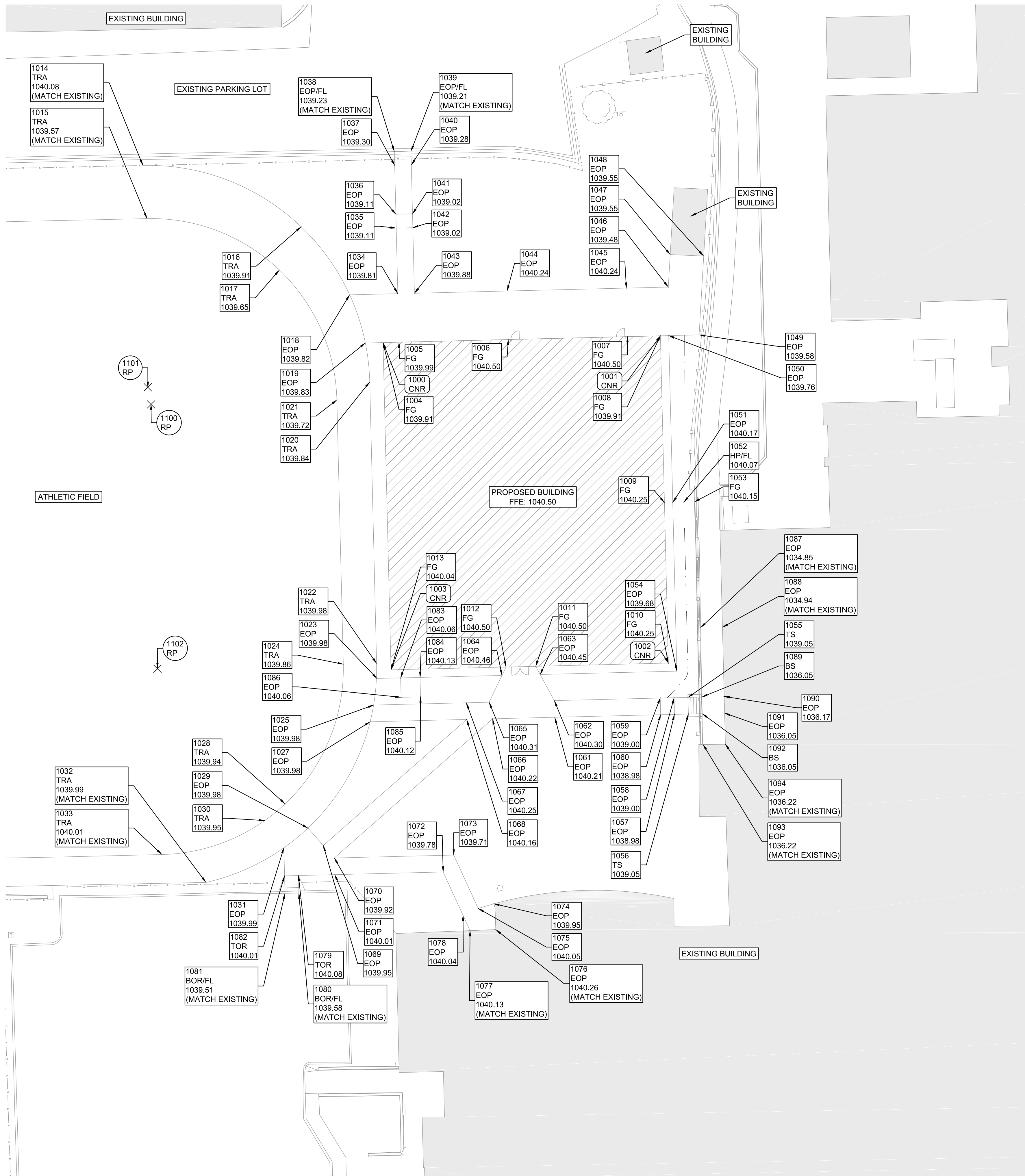
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1004	322771.84	1792292.17	1039.91	FG
1005	322771.98	1792297.92	1039.99	FG
1006	322772.94	1792337.33	1040.50	FG
1007	322773.98	1792380.31	1040.50	FG
1008	322774.27	1792392.14	1039.91	FG
1009	322714.14	1792393.61	1040.25	FG
1010	322856.31	1792395.02	1040.25	FG
1011	322855.14	1792347.22	1040.50	FG
1012	322854.88	1792336.51	1040.50	FG
1013	322853.87	1792295.05	1040.04	FG
1014	322835.70	1792205.63	1040.08	TRA
1015	322816.53	1792207.10	1039.57	TRA
1016	322813.59	1792262.64	1039.91	TRA
1017	322798.00	1792254.83	1039.65	TRA
1018	322789.05	1792280.13	1039.82	EOP
1019	322771.68	1792285.79	1039.83	EOP
1020	322757.67	1792287.38	1039.84	TRA
1021	322751.17	1792275.53	1039.72	TRA
1022	322656.18	1792289.85	1039.98	TRA
1023	322650.75	1792289.98	1039.98	EOP
1024	322655.89	1792277.85	1039.86	TRA
1025	322641.18	1792288.78	1039.98	EOP
1027	322635.14	1792287.53	1039.98	EOP
1028	322605.55	1792256.88	1039.94	TRA
1029	322596.83	1792265.12	1039.98	EOP
1030	322590.53	1792249.52	1039.95	TRA
1031	322589.73	1792256.44	1039.99	EOP
1032	322577.21	1792228.33	1039.99	TRA
1033	322587.28	1792212.49	1040.01	TRA
1034	322789.47	1792297.50	1039.81	EOP
1035	322813.11	1792296.92	1039.11	EOP
1036	322818.11	1792296.80	1039.11	EOP
1037	322835.71	1792296.37	1039.30	EOP
1038	322840.70	1792296.25	1039.23	EOP/FL
1039	322840.86	1792302.25	1039.21	EOP/FL
1040	322835.85	1792302.37	1039.28	EOP
1041	322818.25	1792302.80	1039.02	EOP
1042	322813.25	1792302.92	1039.02	EOP
1043	322789.62	1792303.49	1039.88	EOP
1044	322790.43	1792336.90	1040.24	EOP
1045	322791.48	1792379.89	1040.24	EOP
1046	322791.85	1792395.00	1039.48	EOP
1047	322803.56	1792395.68	1039.55	EOP
1048	322803.02	1792407.76	1039.55	EOP
1049	322774.61	1792406.10	1039.58	EOP

RADIUS POINTS

POINT #	NORTHING	EASTING	DESCRIPTION
1100	322749.54	1792208.55	RP
1101	322755.72	1792207.40	RP
1102	322854.26	1792210.87	RP

COORDINATES

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1050	322774.35	1792395.14	1039.76	EOP
1051	322714.22	1792396.61	1040.17	EOP
1052	322714.31	1792400.61	1040.07	HP/FL
1053	322714.41	1792404.42	1040.15	FG
1054	322653.38	1792398.09	1039.88	EOP
1055	322643.93	1792402.09	1039.05	TS
1056	322637.94	1792402.24	1039.05	TS
1057	322637.81	1792397.24	1038.98	EOP
1058	322643.81	1792397.09	1039.00	EOP
1059	322643.69	1792392.09	1039.00	EOP
1060	322637.69	1792392.24	1038.98	EOP
1061	322636.76	1792354.06	1040.21	EOP
1062	322642.76	1792353.92	1040.30	EOP
1063	322652.18	1792348.82	1040.45	EOP
1064	322651.85	1792335.05	1040.46	EOP
1065	322642.19	1792330.42	1040.31	EOP
1066	322636.22	1792331.67	1040.22	EOP
1067	322641.99	1792322.18	1040.25	EOP
1068	322635.99	1792322.32	1040.16	EOP
1069	322590.54	1792270.65	1039.95	EOP
1070	322586.03	1792274.62	1039.92	EOP
1071	322580.03	1792274.76	1040.01	EOP
1072	322580.98	1792313.85	1039.78	EOP
1073	322587.08	1792317.66	1039.71	EOP
1074	322569.53	1792332.11	1039.95	EOP
1075	322567.87	1792326.46	1040.05	EOP
1076	322560.22	1792332.83	1040.26	EOP
1077	322559.86	1792323.54	1040.13	EOP
1078	322565.37	1792321.01	1040.04	EOP
1079	322579.71	1792261.69	1040.08	TOR
1080	322573.38	1792261.84	1039.58	BOR/FL
1081	322573.27	1792256.84	1039.51	BOR/FL
1082	322579.59	1792256.69	1040.01	TOR
1083	322650.96	1792296.52	1040.06	EOP
1084	322651.13	1792305.52	1040.13	EOP
1085	322644.13	1792305.69	1040.12	EOP
1086	322643.96	1792296.69	1040.06	EOP
1087	322669.08	1792406.66	1034.85	EOP
1088	322669.21	1792414.52	1034.94	EOP
1089	322644.06	1792407.09	1036.05	BS
1090	322644.26	1792415.15	1036.17	EOP
1091	322638.26	1792415.30	1036.05	EOP
1092	322638.06	1792407.24	1036.05	BS
1093	322626.97	1792407.51	1036.22	EOP
1094	322627.03	1792415.58	1036.22	EOP

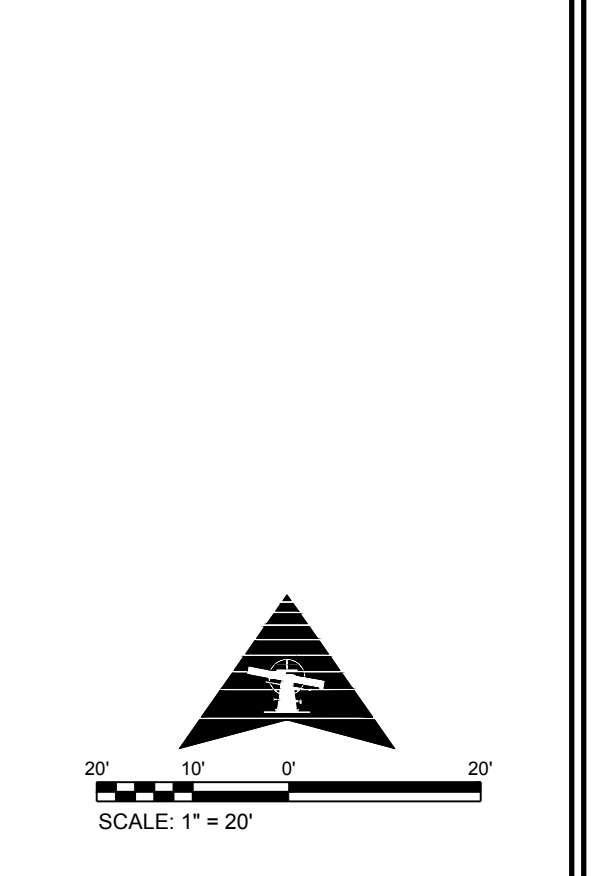


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REV	DESCRIPTION	DATE

Project Number: **16036**
Date: **9/1/2017**
Project Name: **USD 320 MULTIPURPOSE BUILDING**
Project Address: **WAMEGO, KS**

Sheet Title: **HORIZONTAL & VERTICAL CONTROL PLAN**

Sheet: **C3**

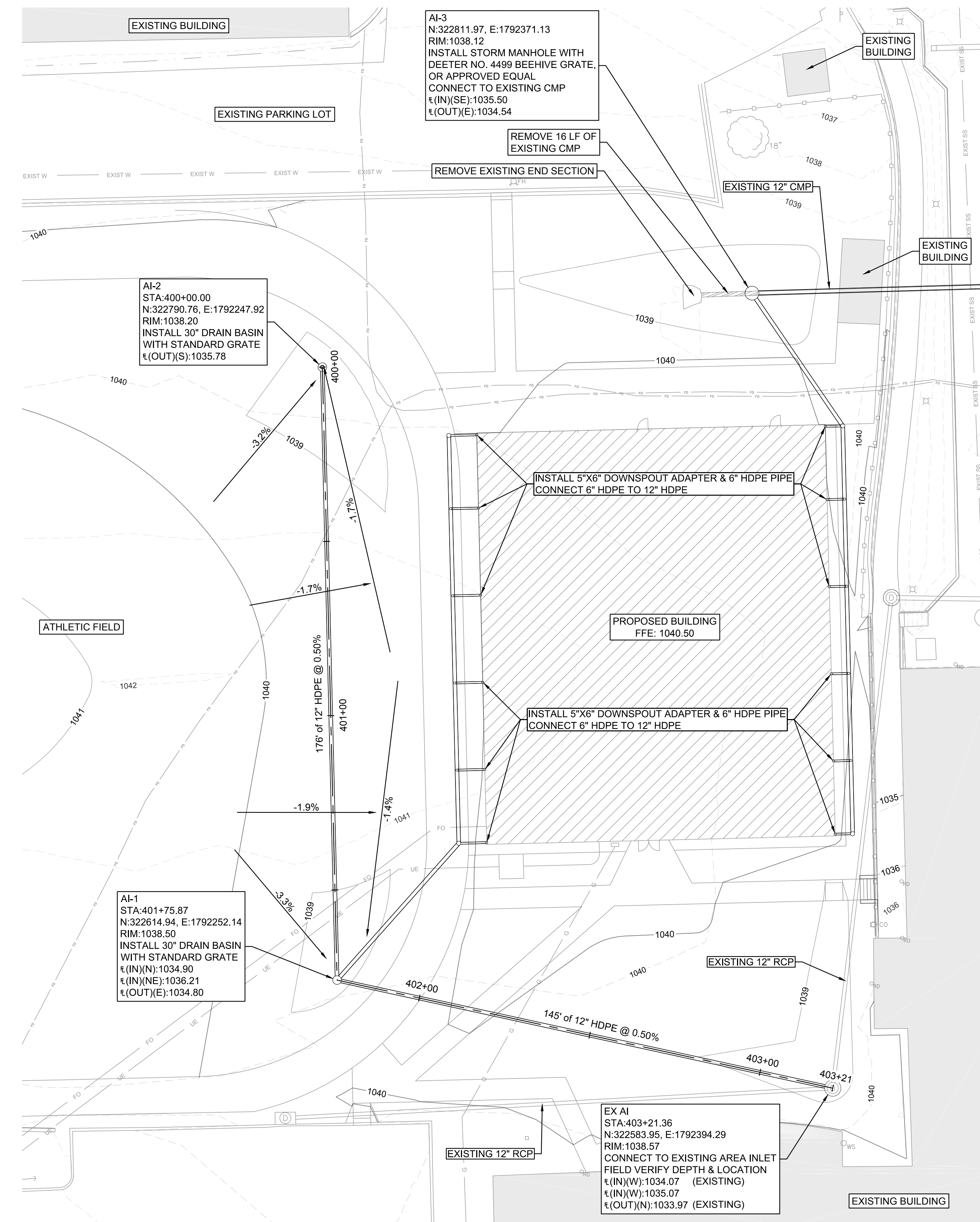
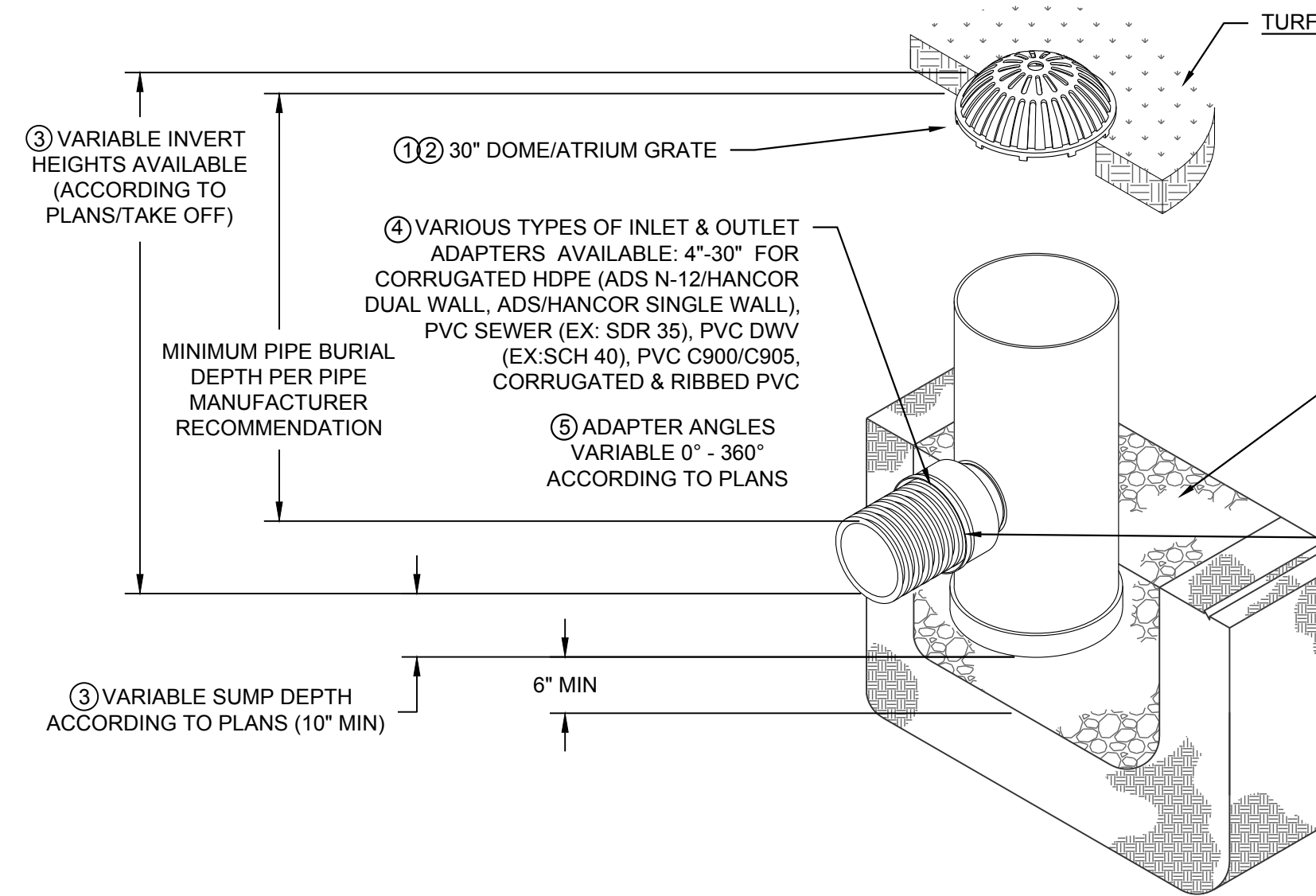
NYLOPLAST 30" DRAIN BASIN: 2830AG

NOT TO SCALE

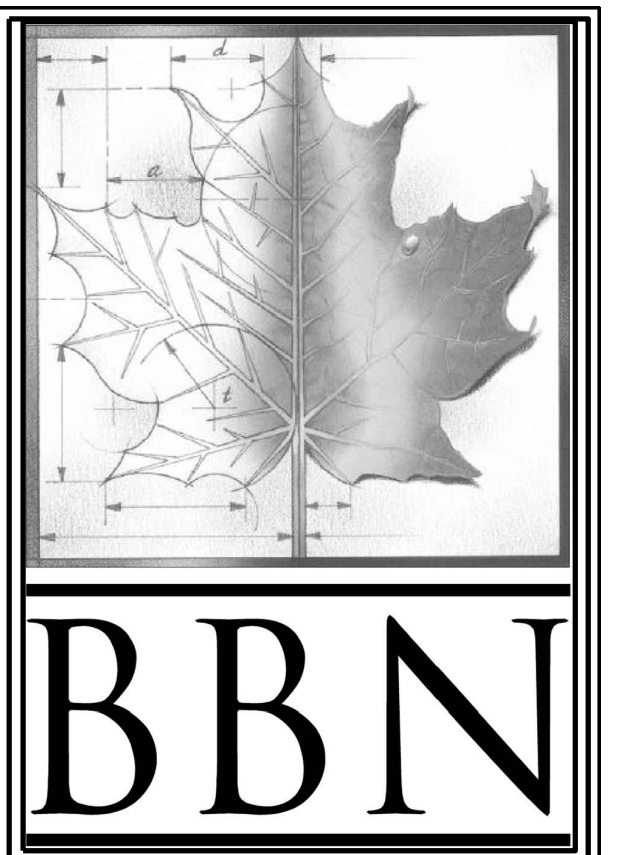
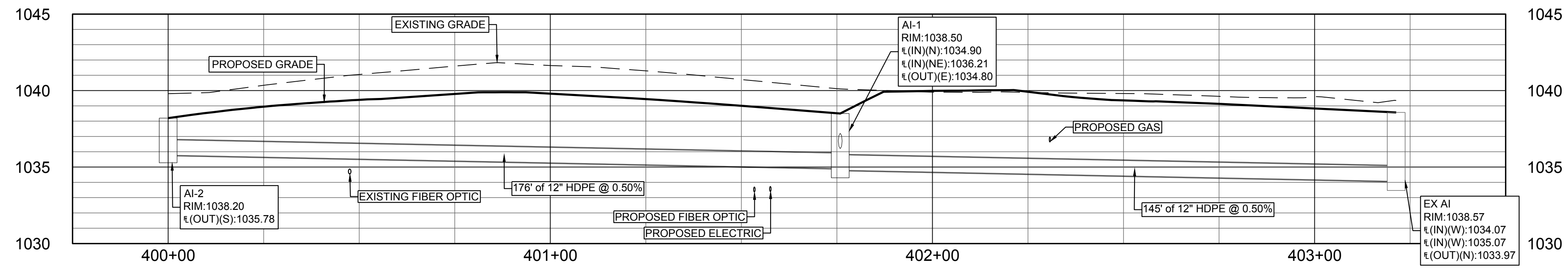


3130 VERONA AVE
BUFORD, GA 30518
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FAX (770) 932-2490
www.nyloplast-us.com

- GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER (4" - 24")
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 7001-110-013.



STORM SEWER PROFILE

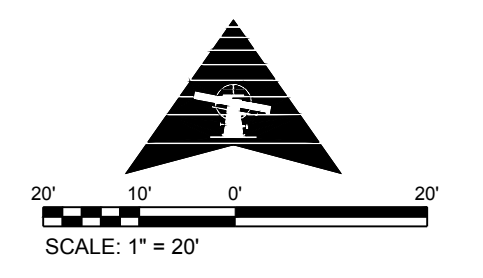
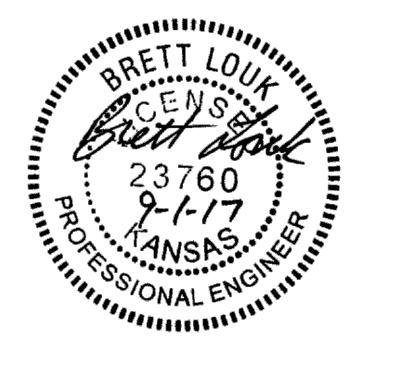


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REV	DESCRIPTION	DATE

Project Number: 16036

Date: 9/1/2017

Project Name:

USD 320 MULTIPURPOSE BUILDING

Project Address:

WAMEGO, KS

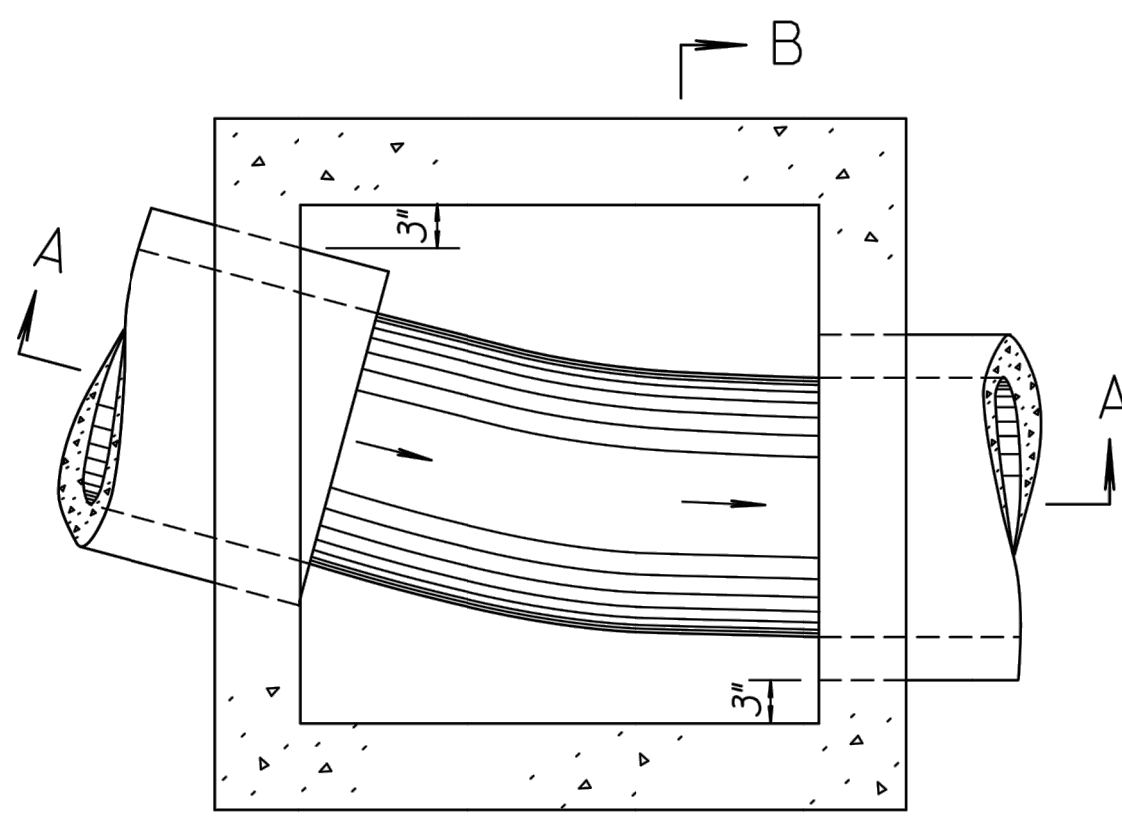
Sheet Title:

STORM PLAN & PROFILE

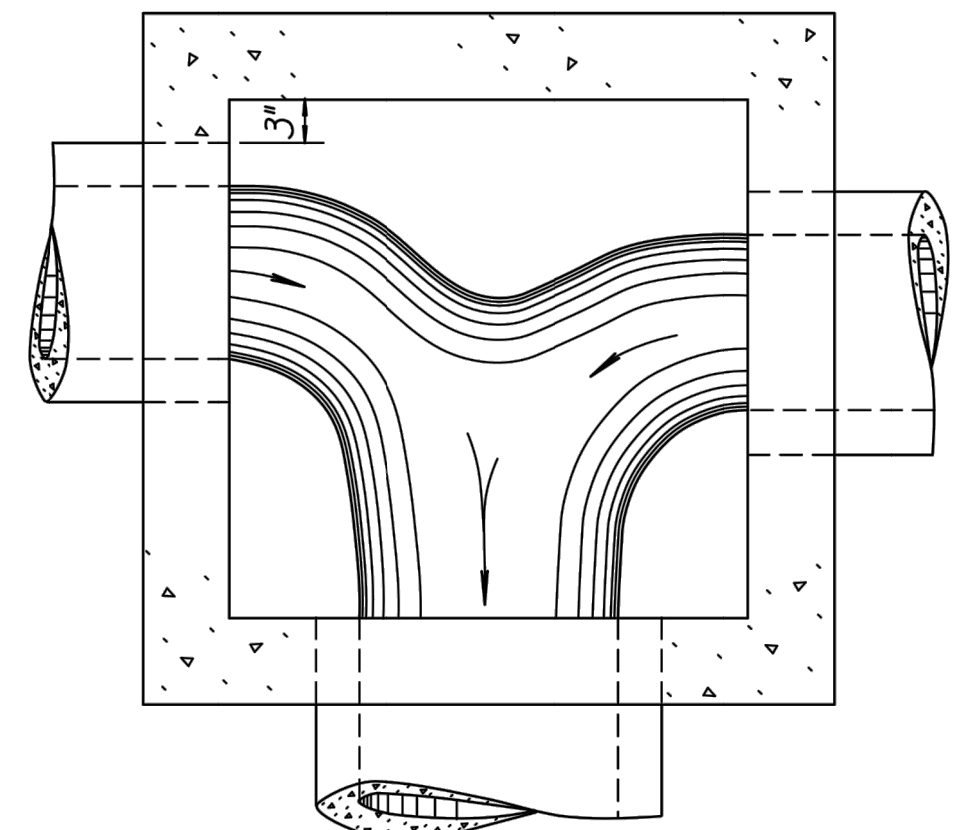
Sheet:

C4

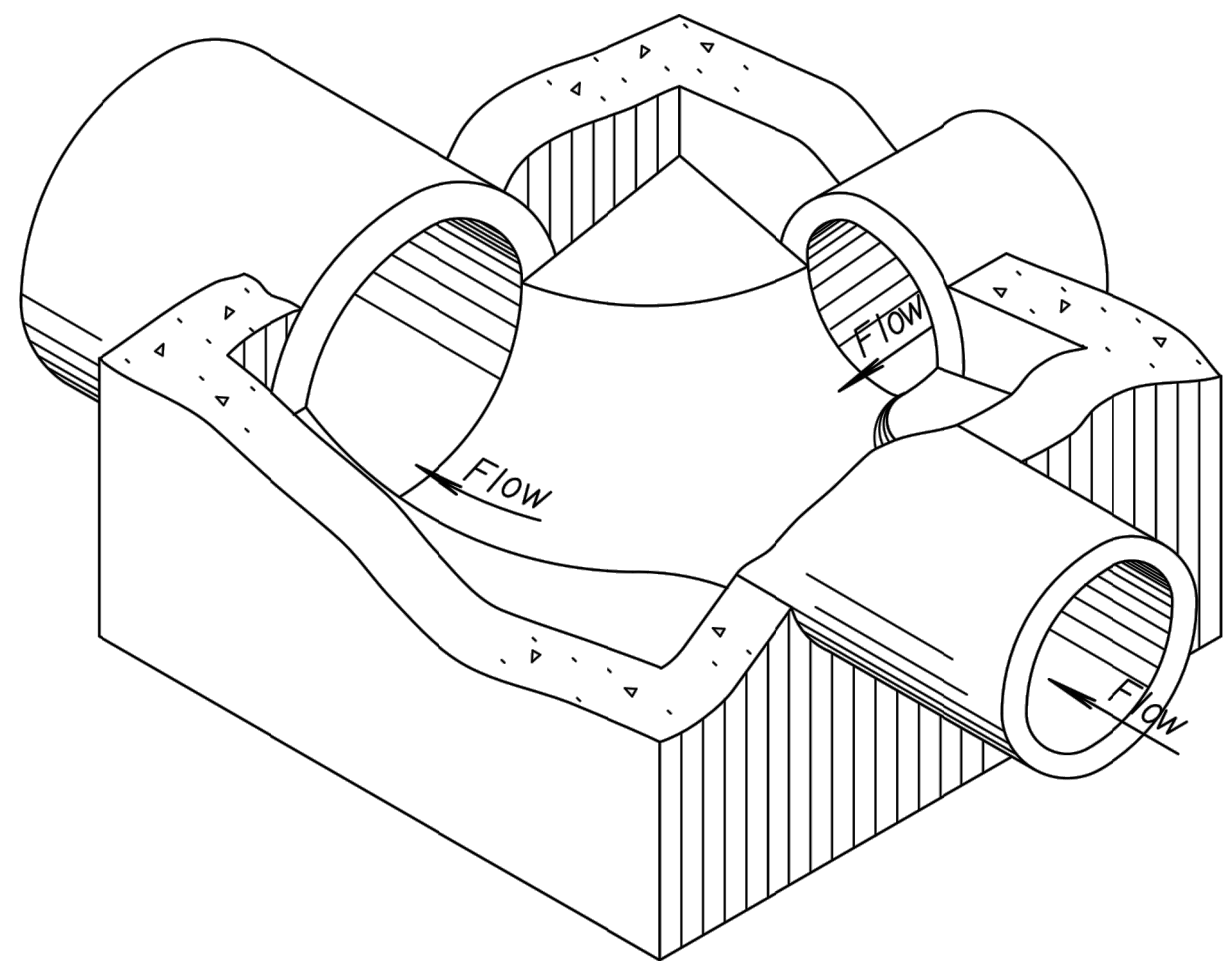
OF:



PLAN - FLOOR (Example I)

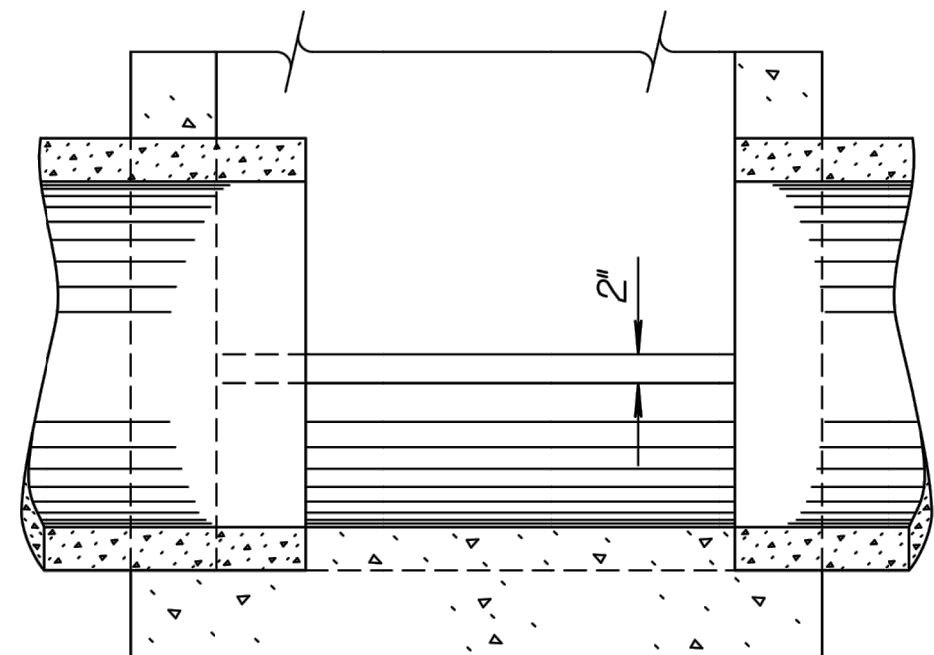


PLAN - FLOOR (Example III)

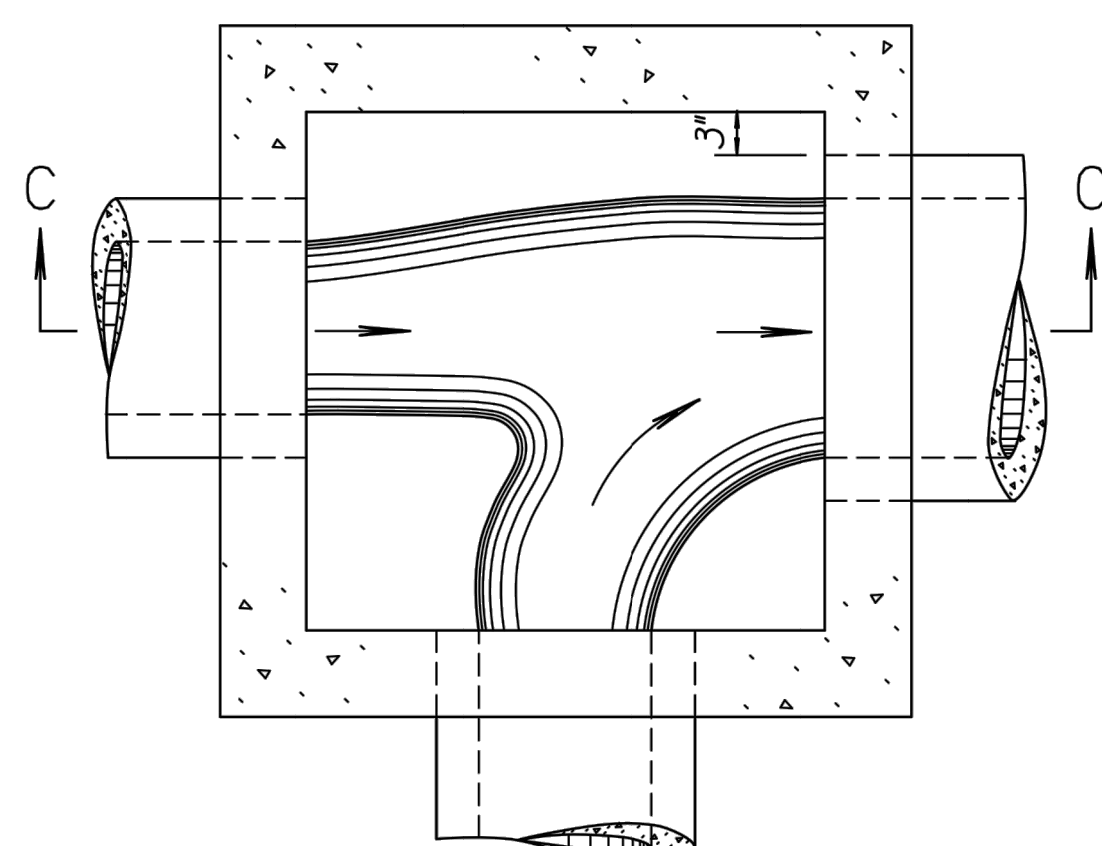


Floor of manhole shall be shaped as shown in the examples to increase hydraulic efficiency.

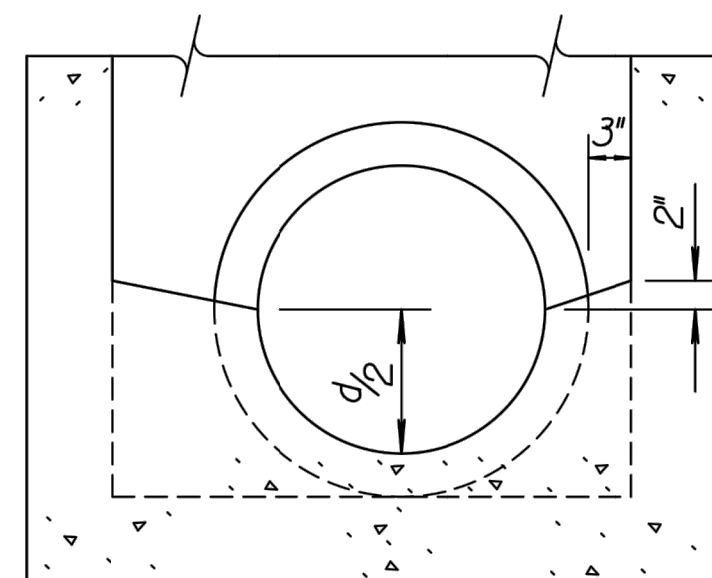
ISOMETRIC VIEW (Example IV)



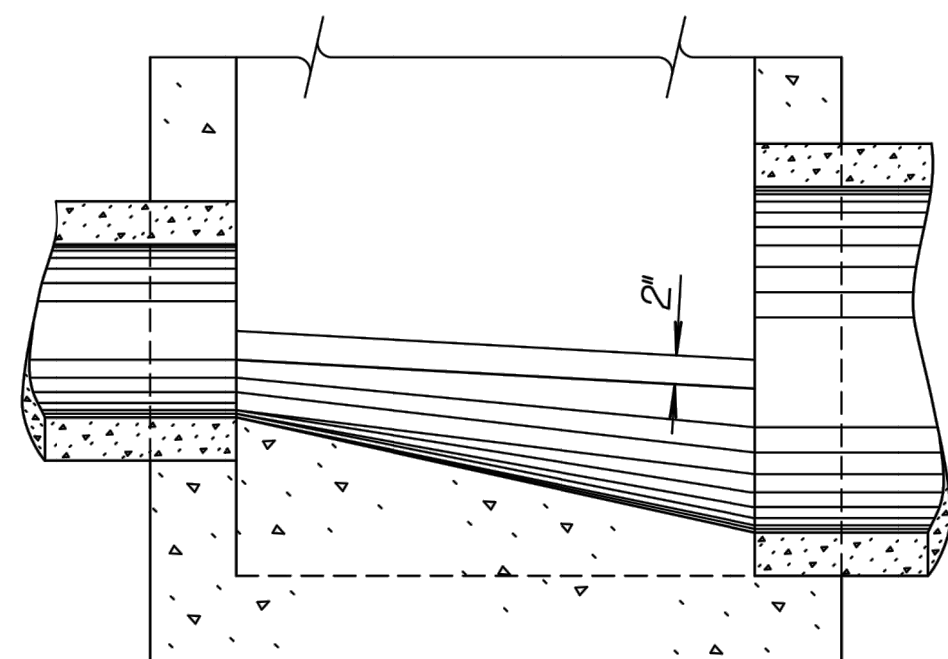
SECTION A-A (Example I)



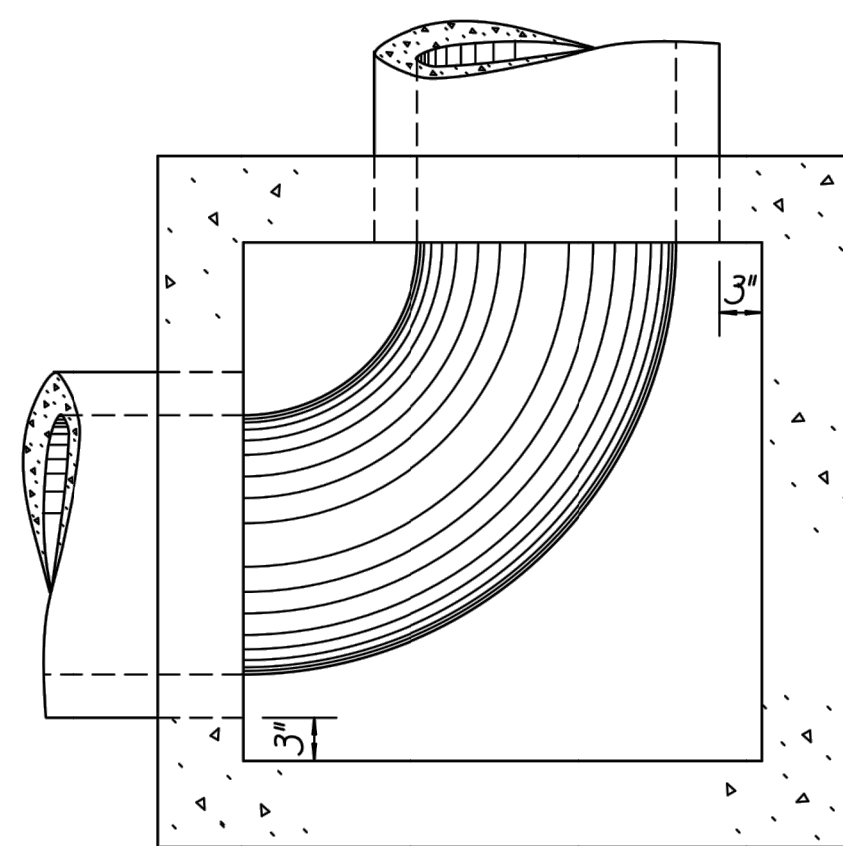
PLAN - FLOOR (Example IV)



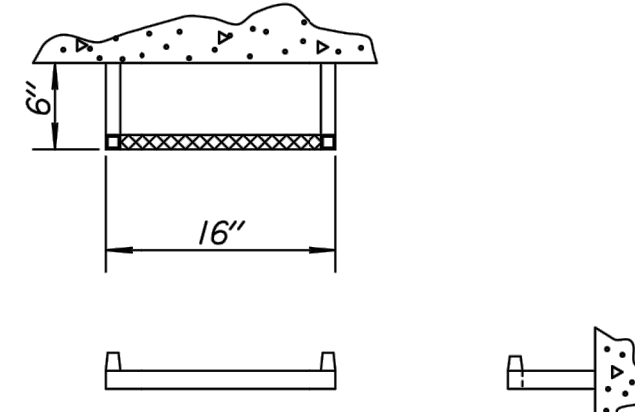
SECTION B-B (Example I)



SECTION C-C (Example IV)

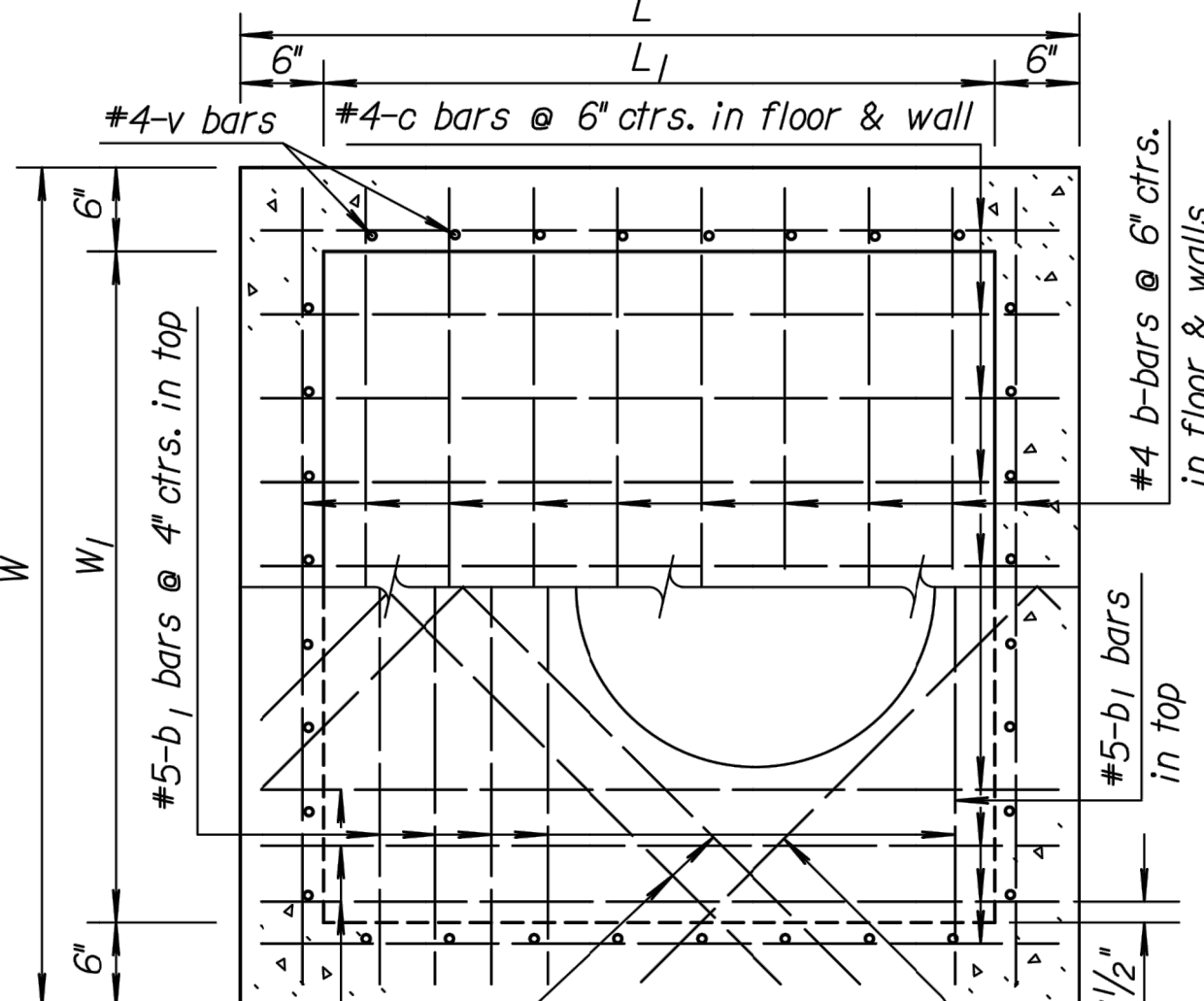


PLAN - FLOOR (Example II)

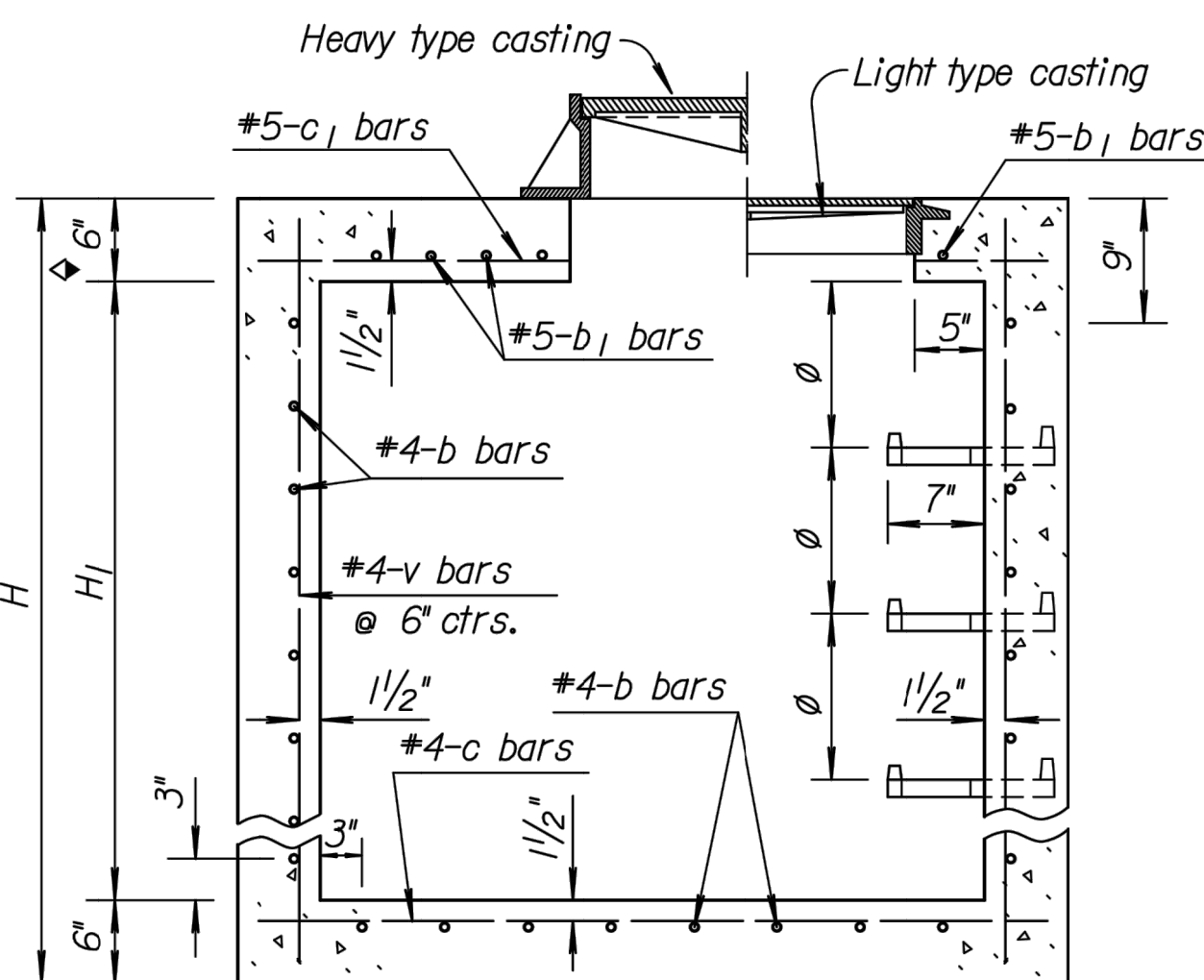


STEP DETAILS

Ø Steps shall be uniformly spaced. Spacing shall be 12" minimum and 16 1/2" maximum.



PLAN (Showing top & floor reinf.)



SECTION (Exclusive of floor shaping)

Note: Use Concrete Grade 3.0 throughout. All exposed edges shall be finished with an edging tool. At the contractor's option Concrete Grade 3.0 (AE) or mix used in concrete pavement may be used throughout.

In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes.

Floor of manhole shall be shaped as shown in various "EXAMPLES" with unreinforced Concrete Grade 3.0. Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars shall be adjusted accordingly.

All castings shall be gray iron and shall comply with the KDOT Standard Specifications. No deductions in concrete quantities shall be made for pipe openings or additions to concrete quantities shall be made for shaping floor of manholes.

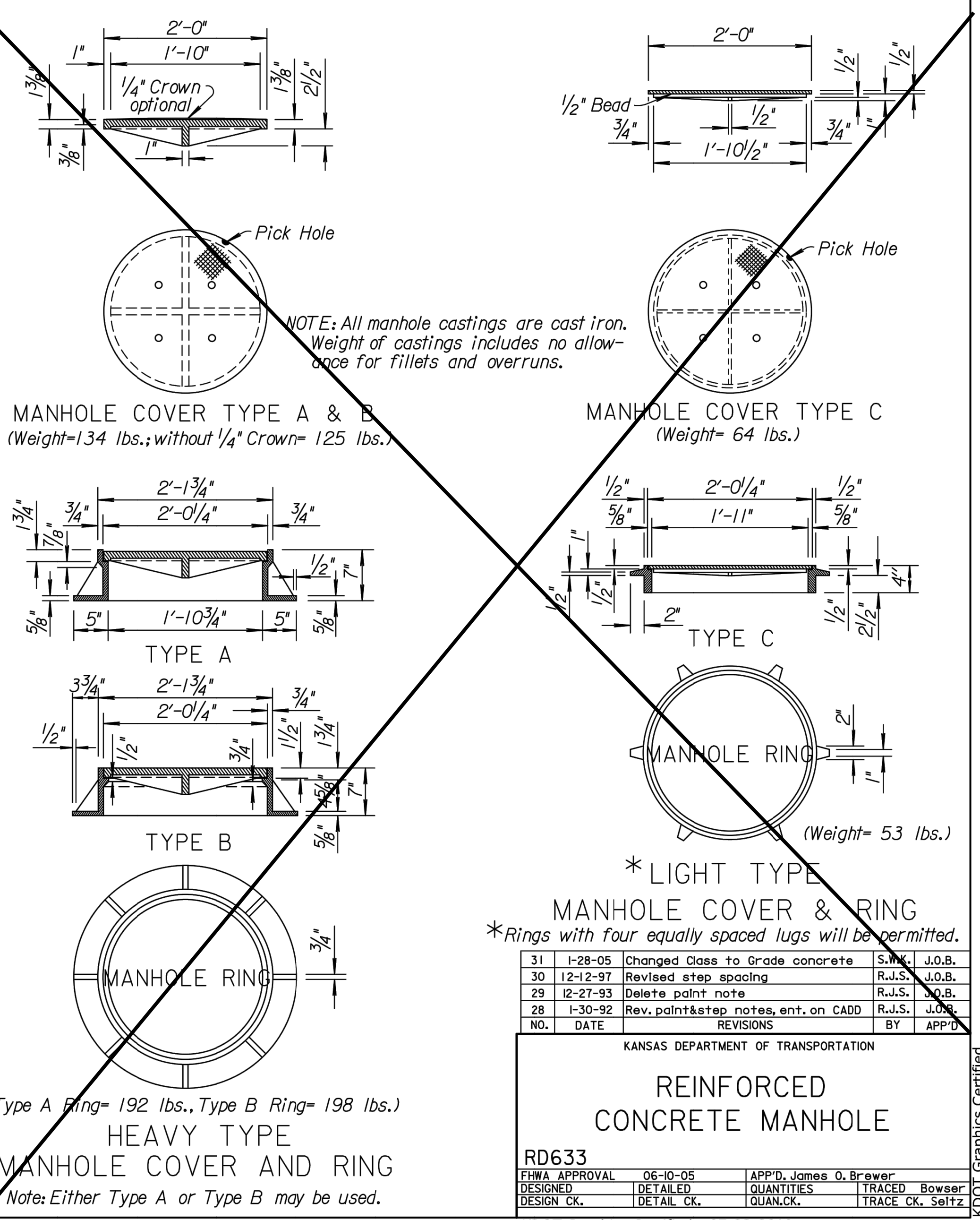
The top of the manhole shall be sloped slightly to approximately fit the ground line or other condition as directed by the Engineer.

Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.

The Contractor has the option of using precast manholes, as approved by the Engineer.

Steps shall be installed in all manholes when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the requirements of the KDOT Standard Specification.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



NO.	DATE	REVISIONS	BY	APP'D
31	1-28-05	Changed Class to Grade concrete	S.M.K.	J.O.B.
30	12-12-97	Revised step spacing	R.J.S.	J.O.B.
29	12-27-93	Delete paint note	R.J.S.	J.O.B.
28	1-30-92	Rev. paint & step notes, ent. on CADD	R.J.S.	J.O.B.

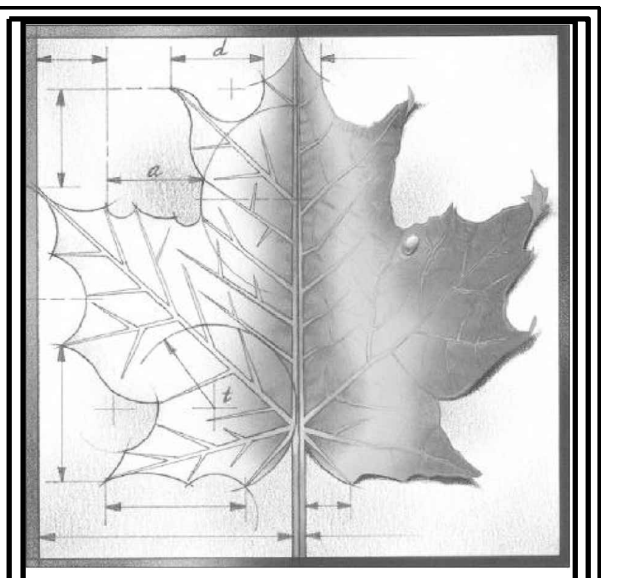
KANSAS DEPARTMENT OF TRANSPORTATION

RD633

DESIGNED: J.O.B. APP'D: James O. Brewer

DETAILS: J.O.B. QUANTITIES: J.O.B.

DESIGN CK: J.O.B. DETAIL CK: J.O.B. QUAN. CK: J.O.B. TRACE CK: Seitz

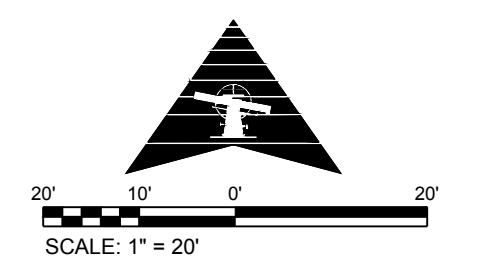


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REV	DESCRIPTION	DATE

Project Number: 16036

Date: 9/1/2017

Project Name: USD 320 MULTIPURPOSE BUILDING

Project Address: WAMEGO, KS

Sheet Title: STORM DETAILS

Sheet: C5

OF:

KDOT Graphics Certified

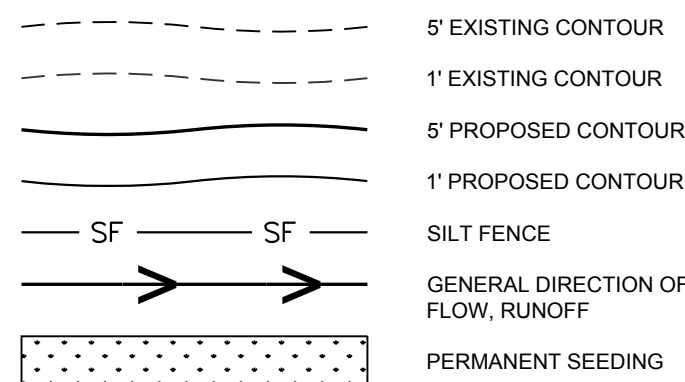
NOTES:
 CONTRACTOR TO COMPLY WITH CITY OF WAMEGO STORM WATER MANAGEMENT REQUIREMENTS AS WELL AS THE PROVIDED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SOIL EROSION AND SEDIMENT CONTROL PLAN.

TEMPORARY SEEDING SHALL INCLUDE ALL DISTURBED SOIL UNLESS OTHERWISE NOTED AS PERMANENT SEEDING.

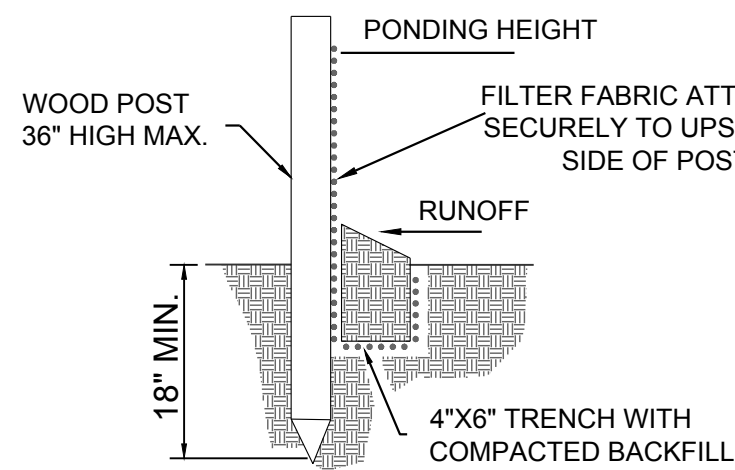
EXISTING VEGETATION SHALL BE MAINTAINED IN ALL AREAS AS STORM WATER POLLUTION PREVENTION WITH THE EXCEPTION OF THOSE AREAS NOTED TO BE DISTURBED ON THIS PLAN SHEET.

CONTRACTOR SHALL DESIGNATE TRUCK WASHOUT AREA.

LEGEND



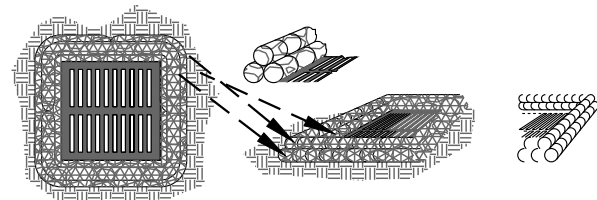
SILT FENCE BARRIER



NOTES:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

AREA INLET PROTECTION



NOTES FOR AREA INLET PROTECTION:

- SURROUND WIRE WRAPPED ROCK WATTLE, FILLED WITH 1/2" DIA. CLEAN ROCK, AROUND AREA INLET AS SHOWN.
- INSURE EACH NEW WRAP DOES NOT BEGIN AND END IN THE SAME PLACE AS THE PREVIOUS.
- USE A MINIMUM OF THREE (3) WATTLES AROUND EACH INLET, STACKED AS SHOWN.

* WHERE CLEAN ROCK IS NOT AVAILABLE, OTHER WATTLE MATERIAL MAY BE SUBSTITUTED. SUITABLE MATERIAL WILL NOT DETERIORATE OR DECOMPOSE DUE TO AGE OR WEATHER.

MATERIAL SPECIFICATION:

WATTLE INLET PROTECTION SHOULD BE CONSTRUCTED OF CLEAN ROCK THAT IS FREE OF FINES SUCH AS DUST OR SEDIMENT SMALLER THAN THE WIRE MESH ENCASING. THE STAKES USED TO ANCHOR WATTLES (WHERE POSSIBLE) SHALL BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 18" LONG. USE WIRE WRAPPED ROCK WATTLES FILLED WITH 1/2" CRUSHED, CLEAN ROCK (RECYCLED CONCRETE OR SAND BAGS ARE NOT ACCEPTABLE). ORGANIC MATERIAL ENCASING AND/OR FILL SUCH AS COMPOST OR FIBER OF A VEGETATION ORIGIN IS PROHIBITED BECAUSE IT BIODEGRADES READILY.

PLACEMENT:

WATTLE INLET PROTECTION SHALL BE PLACED DIRECTLY AROUND THE OPENING OF A STORM INLET AND EXTEND A MINIMUM OF 2' ON EITHER SIDE OF THE OPENING. THE WATTLE(S) SHALL LAY DIRECTLY AGAINST THE CURB. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR THE WATTLE TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

- OVER PAVED SURFACES, THE LENGTH OF THE WATTLE PLACED IN FRONT OF THE INLET OPENING SHALL BE REINFORCED WITH A 2X4 CENTERED IN THE WATTLE.
- THE LENGTH OF 2X4 SHALL EXTEND 3' BEYOND BOTH SIDES OF THE INLET OPENING.
- THE WATTLE SHALL BE IN CONTINUOUS CONTACT WITH CURB AND ROAD SURFACES WHEN POSSIBLE.
- NO DAYLIGHT SHALL BE SEEN UNDER THE WATTLE.
- THE WATTLE COVERING THE AREA DIRECTLY IN FRONT OF THE INLET WILL NOT HAVE DIRECT CONTACT WITH THE CURB BUT WILL HAVE DIRECT CONTACT WITH THE ROAD SURFACE.
- IN INSTANCES WHERE FINISHED GROUND DIRECTS FLOWS OVER THE TOP OF THE INLET, A WIRE WRAPPED ROCK WATTLE SHALL BE PLACED ON TOP OF THE INLET FOR ADDITIONAL PROTECTION FROM TOP-SIDE FLOWS.
- IF WATTLES ARE USED SUCCESSIVELY, DO NOT OVERLAP THE ENDS ON TOP OF EACH OTHER.
- WATTLES SHALL BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH MANUFACTURERS' SPECIFICATIONS TO MEET SITE CONDITIONS AND IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES.

NOTE: THE INSTALLATION AND MAINTENANCE OF WATTLES SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY.

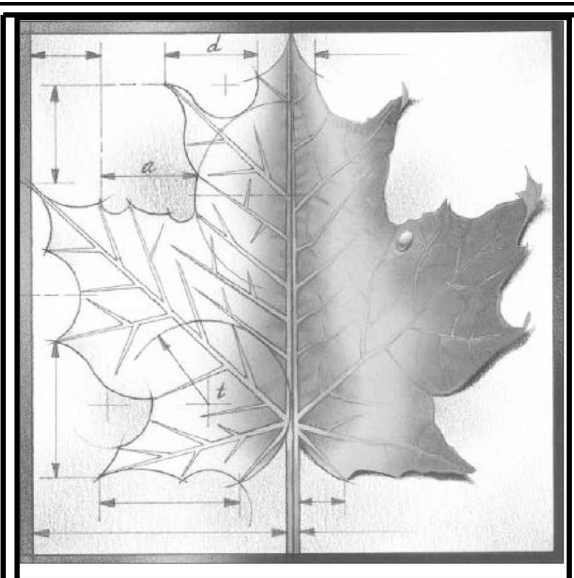
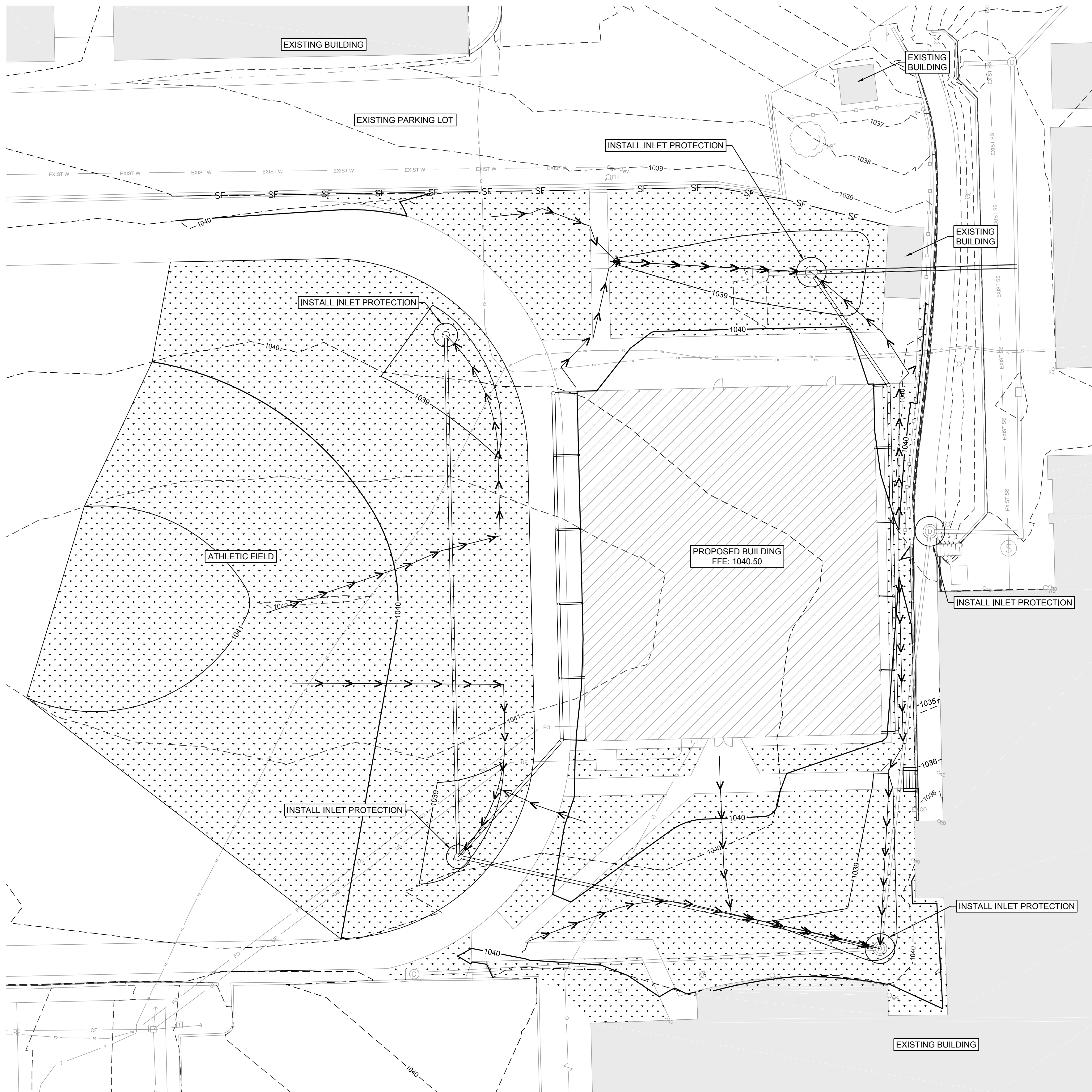
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

- WATTLES SHALL BE PLACED DIRECTLY IN FRONT OF THE INLET OPENING. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR.
- WHEN MULTIPLE WATTLES ARE USED IN A CONTINUOUS ROW, THE ENDS SHALL OVERLAP HORIZONTALLY SO THAT NO DAYLIGHT CAN BE SEEN AT EACH OVERLAPPING POINT. THE UPHILL END OF THE OVERLAPPING WATTLE SHALL BE PLACED ON THE FLOW SIDE OF THE DOWNHILL END OF THE OVERLAPPED WATTLE.

INSPECTION AND MAINTENANCE:

WATTLE INLET PROTECTION SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHALL BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE WATTLE?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING WATTLES?
- ARE ANY WATTLES DISLODGED?
- ARE WATTLES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE WATTLE?



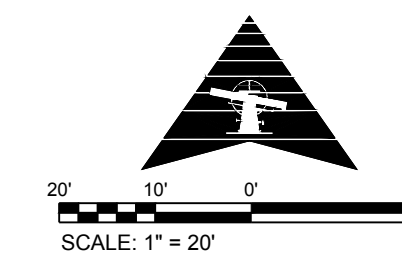
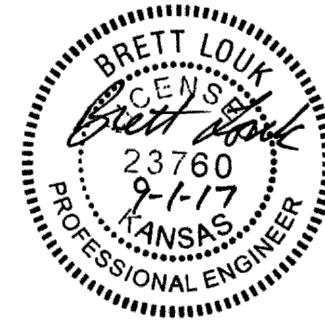
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SMH CONSULTANTS

2017 Vanesta Place, Suite 110
 Manhattan, KS 66503
 P (785)776-0541 • F (785)776-9760



REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **9/1/2017**

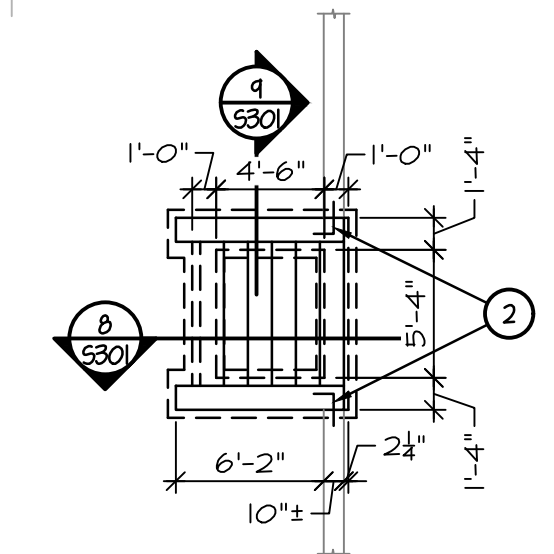
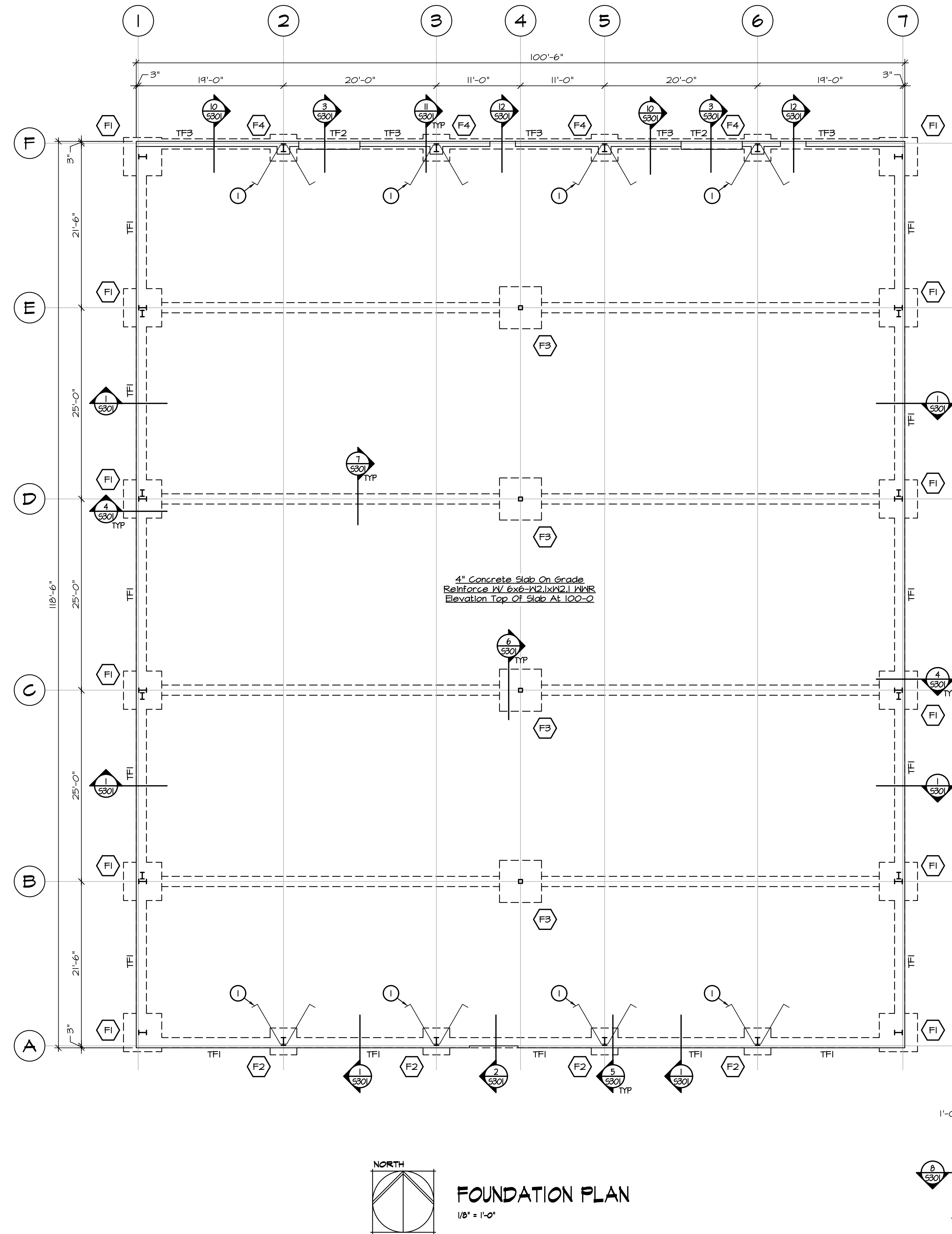
Project Name: **USD 320 MULTIPURPOSE BUILDING**

Project Address: **WAMEGO, KS**

Sheet Title: **SESC PLAN**

Sheet: **C6**

OF



PLAN MARKS:

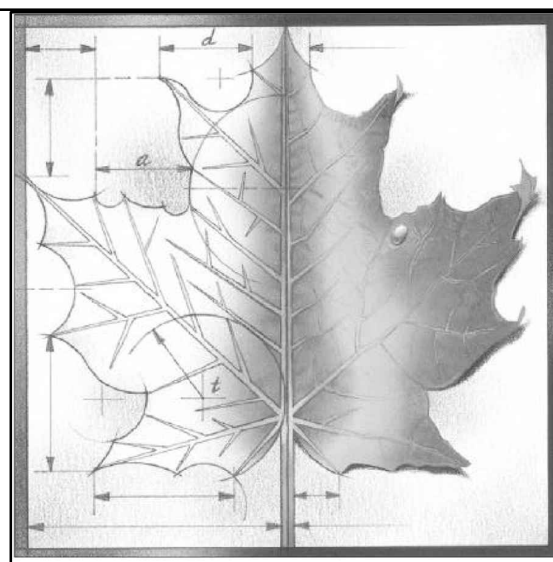
- F# Column Footing Mark, See Schedule On Sheet S201
- TF# Trench Footing Mark, See Schedule On Sheet S201

PLAN NOTES:

1. See General Structural Notes on Sheet S201 for Additional Notes and Information.
2. Center Column Footings Below Centerline of Metal Building Columns or Frames Unless Noted Otherwise. Coordinate Dimensional Location of Building Columns and Frames With the Metal Building Shop Drawings.
3. See Detail 13-S301 For Typical Slab Joint Details.
4. See Detail 14-S301 For Typical Corner Bar Detail.
5. See Detail 15-S301 Where Subgrade Plumbing or Electrical Conduit Lines Occur Within 2'-0" Below Bottom of Footing Elevation.
6. Verify All Perimeter Building Dimensions With Metal Building Supplier.
7. See Architectural Drawings for Exterior Slabs and Paving Details. See Mechanical Drawings for Equipment and Equipment Pad Details, Typical.

REFERENCED PLAN MARKS:

- ① #5x14-6 Hairpin Cast In Floor Slab Around Column.
- ② #5x2-2 Dowels w/ 10" Hook At 12" o.c. Vertically In Center Of Foundation Wall And Footing, Drill And Adhere 8" Into Existing Retaining Wall And Foundation.

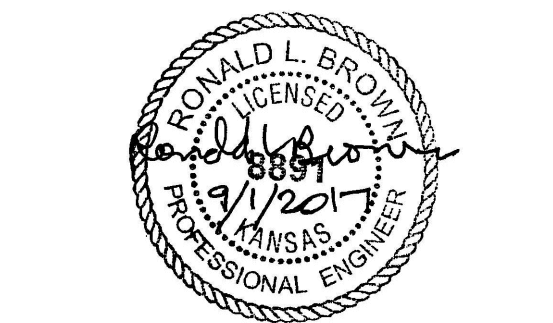


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913-263-2700 • www.dudleywilliams.com
5101 W. 81ST • 64517-0453 • FOUNDATION 9/17/2017 (19)



REV	DESCRIPTION	DATE

Project Number: **17036**

Date: **9/1/17**

Project Name:

**USD 320
MULTIPURPOSE
BUILDING**

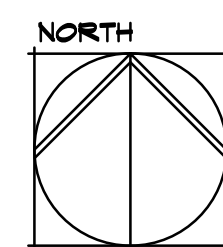
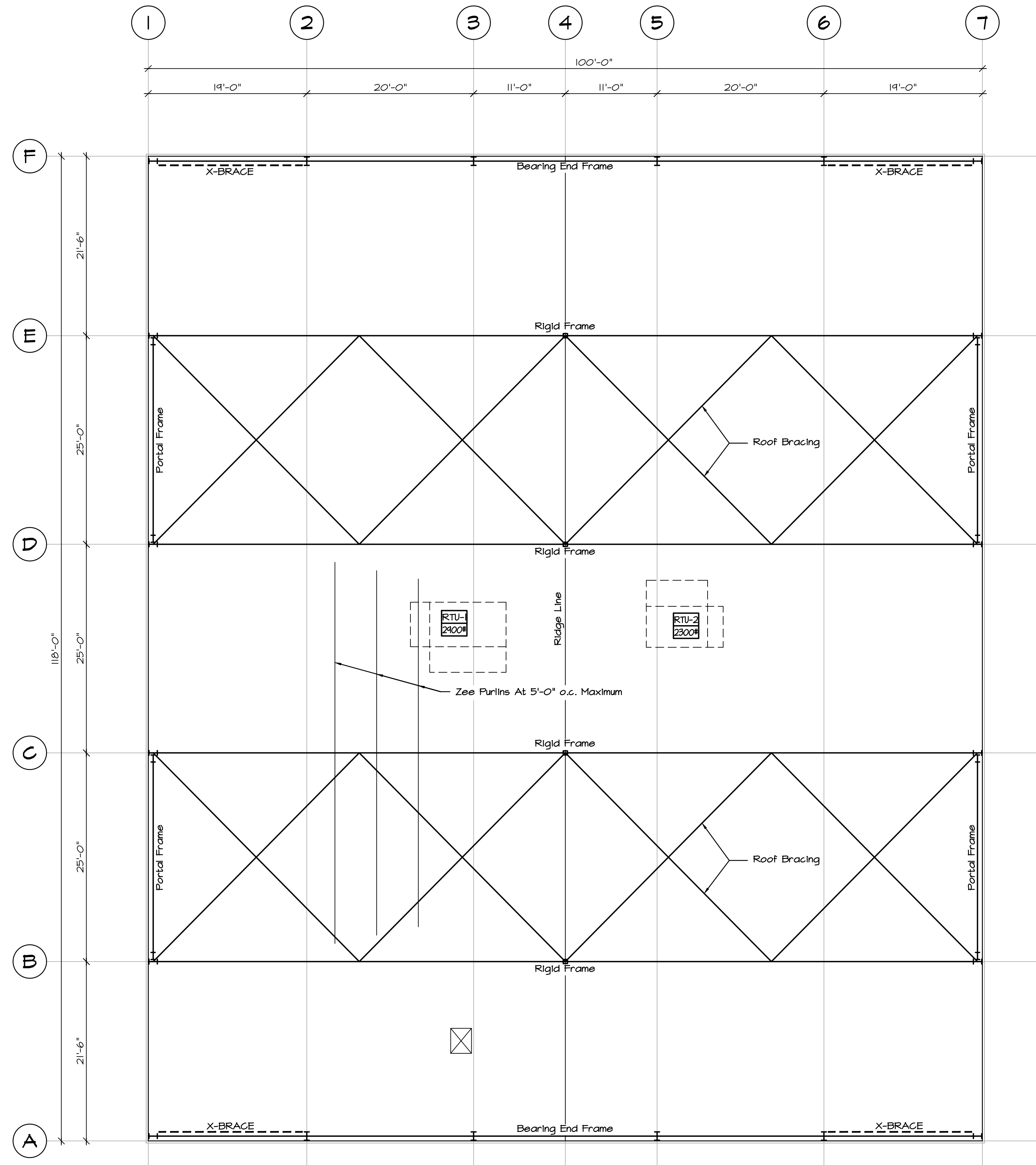
Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:

**FOUNDATION
PLAN**

Sheet: **S101**

Of:



CONCEPTUAL ROOF FRAMING PLAN

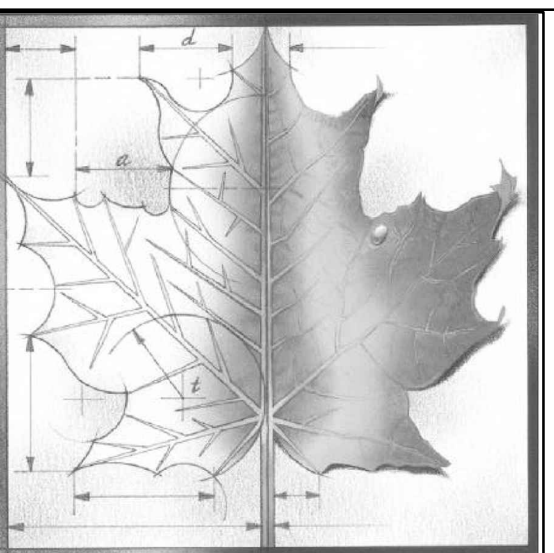
1/8" = 1'-0"

PLAN NOTES:

1. See General Structural Notes on Sheet 5201 for Additional Notes and Information.
2. Dimensions Are To Outside Face Girt And Centerline Of Beams And Columns, Typical Unless Noted Otherwise.

PLAN MARKS:

- RTU # Indicates Mechanical Unit, See Mechanical
- XXXX# Indicates Scheduled Weight Of Mechanical Unit

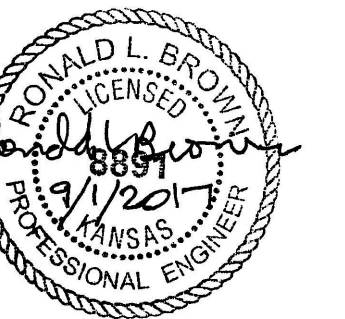


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316-263-7900 www.dwa.com



REV	DESCRIPTION	DATE

Project Number: **17036**

Date: **9/1/17**

Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:
**CONCEPTUAL
ROOF FRAMING
PLAN**

Sheet:
S102

Of:

GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for review. Verify all dimensions and elevations with the Architectural Drawings. See the Architectural Drawings for the exact dimensions for openings in the walls, roof, and floor systems.

- 5. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.11. a. Perform an initial post-installed anchor and reinforcing bar installation inspection for each type and size of post-installed anchor and reinforcing bar.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days. Footings: 3000 psi Formed Foundation Walls: 4000 psi Interior Floor Slabs: 3500 psi Exterior Slabs and Pavement: 4000 psi

All aggregate for normal weight concrete shall meet ASTM C33. Aggregates shall be proportioned such that mix design shall contain a minimum of 50% coarse aggregate by gradation requirements set forth in ASTM C33. Coarse aggregate shall meet No. 67 grading requirements. Exterior exposed concrete shall have from 4 to 1% entrained air.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A616/4. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets. All reinforcing steel shall meet ASTM A615 - 60,000. All reinforcing steel shall have adequate coverage as indicated in ACI 318 for the given application.

POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's installation instructions. All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the structural drawings.

DESIGN LOADS

Building structure is designed for the following loads and criteria:

- Building Occupancy Category: II Dead: Weight of materials and construction plus weight of fixed service equipment Live Load: Floor Live Load: First floor general areas: 100 psf Roof live load: 20 psf (non-reducible)

METAL BUILDING

Metal Building shall be designed for the following loads and criteria: Dead Load: Self weight of metal building system. Colateral roof dead load: 5 psf

Wind loads shall be applied in accordance with the requirements contained in the body of the International Building Code. Metal Building design shall meet the requirements of the latest MBMA Low Rise Building Systems Manual, the International Building Code, the AISI Specifications for Structural Steel Buildings, and the AISI Specification for the Design of Cold-Formed Steel Structural Members, and the project specifications.

The metal building manufacturer shall provide the top and bottom flange lateral bracing angles at all roof purlins supporting standing seam roofing systems. Purlin lateral bracing shall be installed to meet the requirements of the AISI Specification for the Design of Cold-Formed Steel Structural Members, the governing building code, and the Owner's insurance carrier.

Lateral load deflections for wind girts and wind columns shall be limited as follows: Wind girts and columns: All columns and frames shall be designed with pinned end column bases. Verify all building dimensions with the metal building manufacturer.

STRUCTURAL STEEL

Structural steel shall meet the latest AISI "Specification for Structural Steel Buildings." Structural steel shop drawings shall be prepared under the supervision of a professional engineer licensed to practice in the State of Kansas.

EXPOSED CAST-IN-PLACE CONCRETE SPECIAL REQUIREMENTS

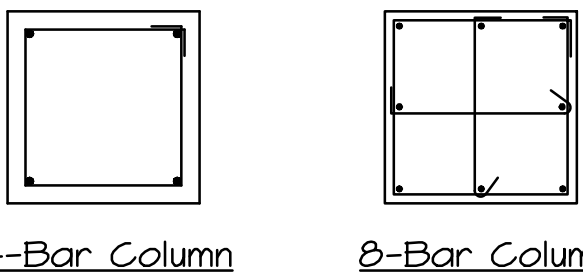
At all locations where the cast-in-place concrete surface is exposed to the exterior and weather, the Contractor shall take special precautions and shall implement special quality control measures to assure that the following concrete coverage requirements are met and maintained at all locations.

METAL BUILDING CONCRETE COLUMN AND FOOTING SCHEDULE

Table with columns MARK, F1, F2, F3, F4 and rows COLUMN SIZE, ELEV. TOP COLUMN, COLUMN VERTS., COLUMN TIES, ELEV. TOP FOOTING, FOOTINGS SIZE, FOOTING BARS, FOOTING DOWELS.

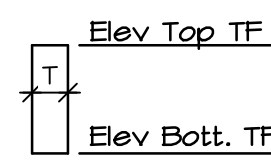
CONCRETE COLUMN AND FOOTING SCHEDULE REMARKS:

- 1 #3 Ties; 4 At 3" o.c. Top, Remainder At 12" o.c. Provide Concrete Column Reinforcing For A 24x24 Concrete Column In Footing. See Plan And Sections. Provide Coverage At Ties Per ACI For Formed Foundation Exposed To Earth. Center Column Reinforcing Below Steel Column. Extend Reinforcing Into Slab As If Elevation Top Of Column = 100-0



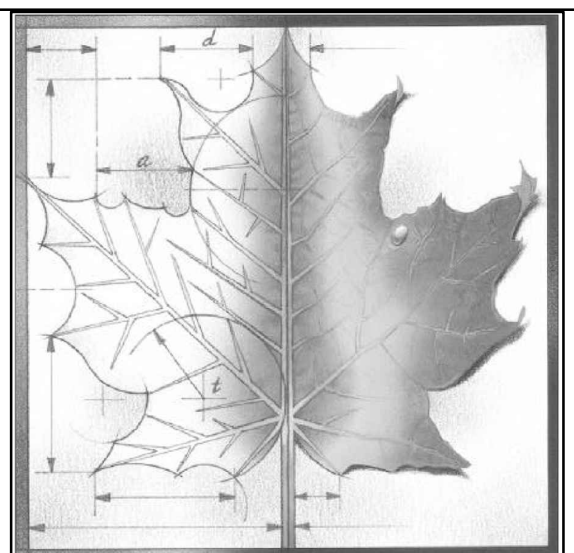
TRENCH FOOTING SCHEDULE

Table with columns MARK, TYPE, ELEV. BOT, ELEV. TOP, ELEV. LEDGE, DIMENSIONS (T, A), REF. SECTION, REMARKS.



TYPE I

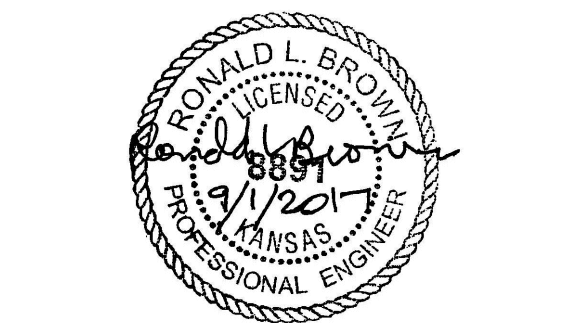
TRENCH FOOTING TYPES



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DWA Dudley Williams and Associates, PA 2301 Area 4 State 2010 - Wichita, KS 67215-1514 316-263-7310 www.dwa-usa.com 5201 in 16/17-045/17-045-03/2011 9/1/2017 [002] [1-9]



A

B

C

D

Table with columns REV, DESCRIPTION, DATE

Project Number: 17036

Date: 9/1/17

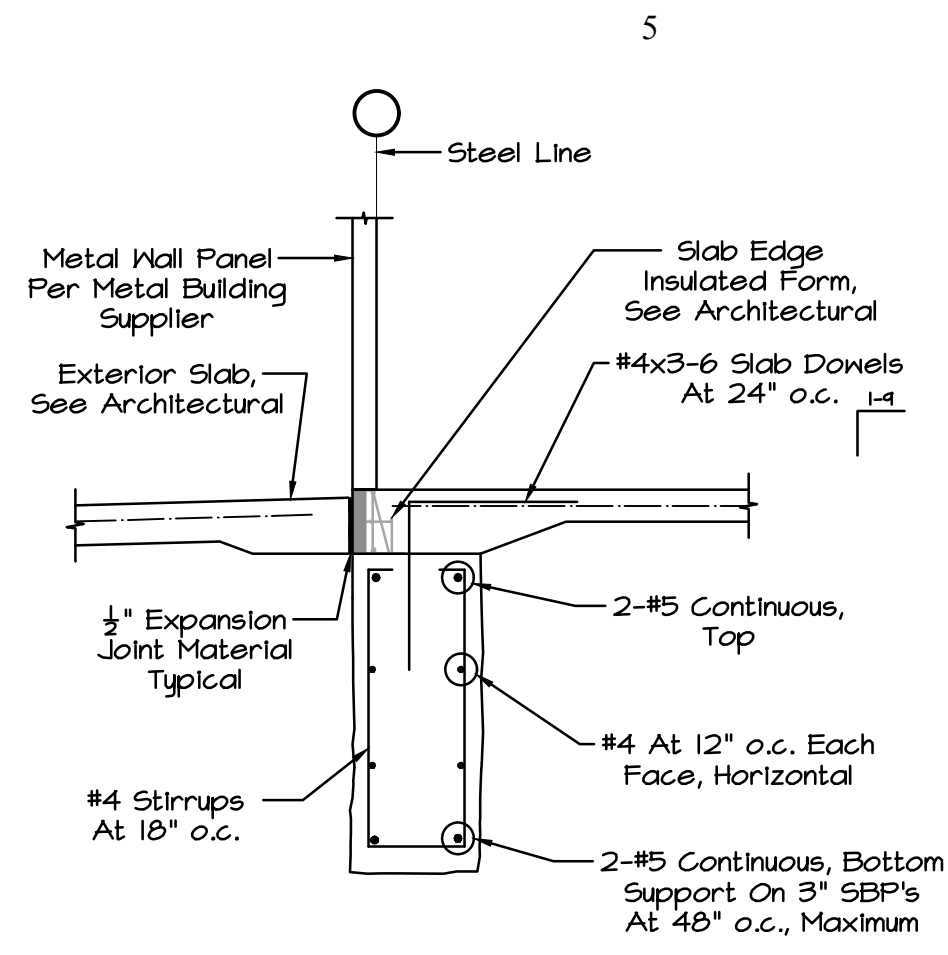
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Project Address: WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547

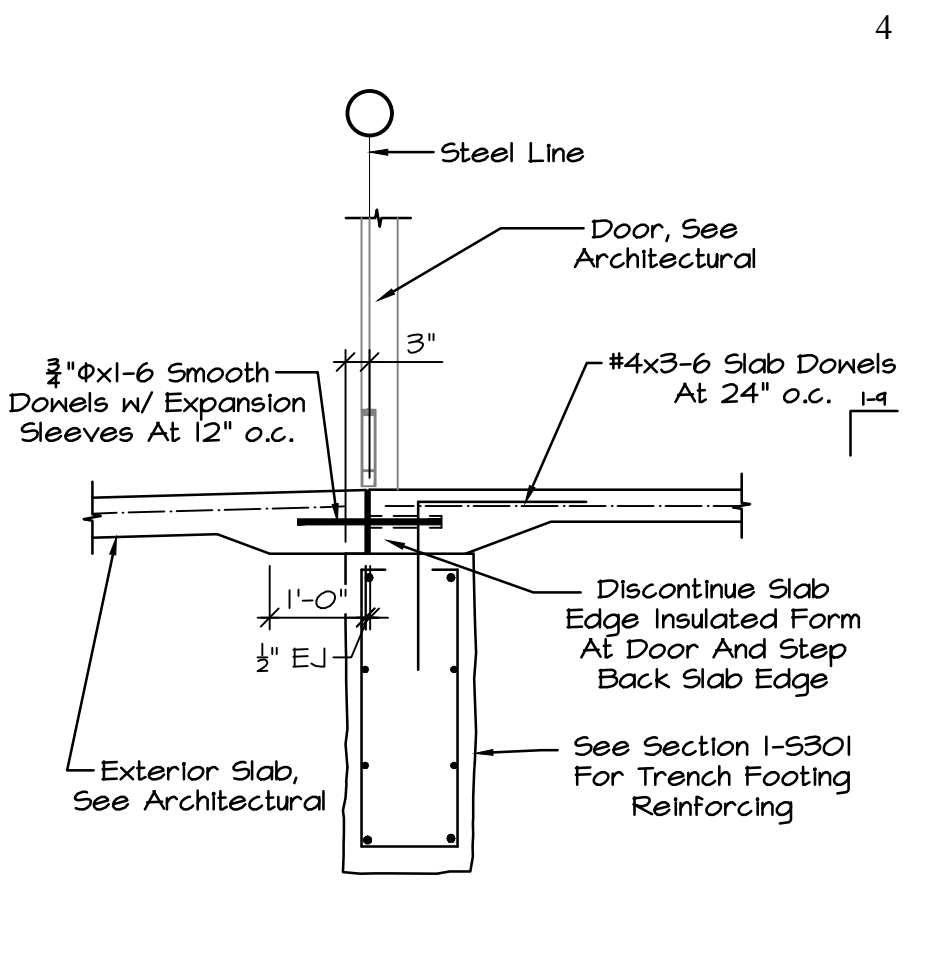
Sheet Title: GENERAL STRUCTURAL NOTES AND SCHEDULES

Sheet: S201

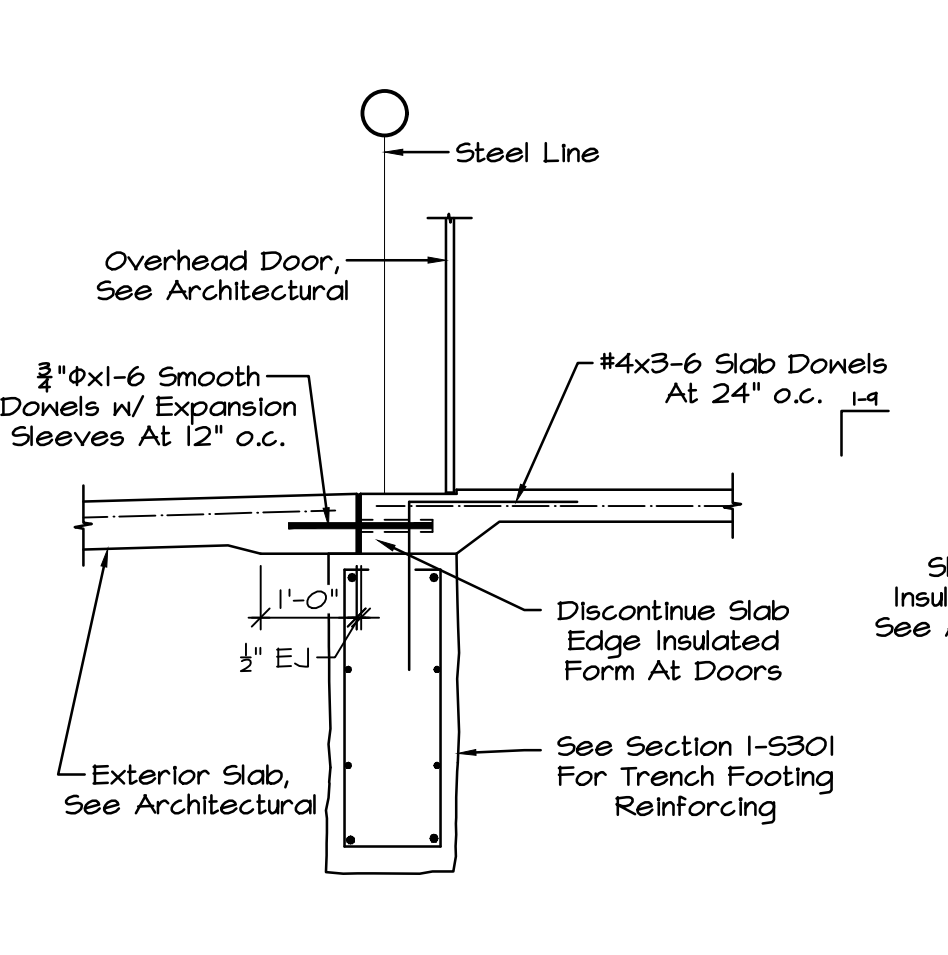
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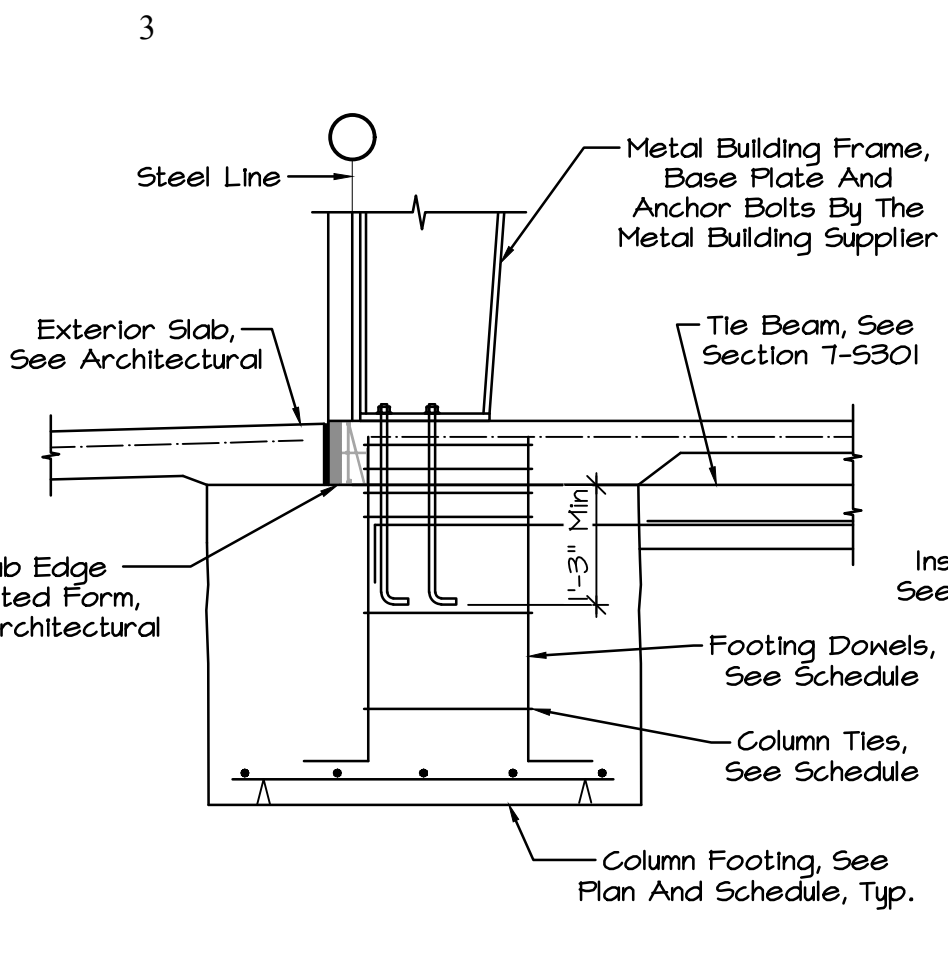
1 SECTION
1/2" = 1'-0"



2 SECTION
1/2" = 1'-0"

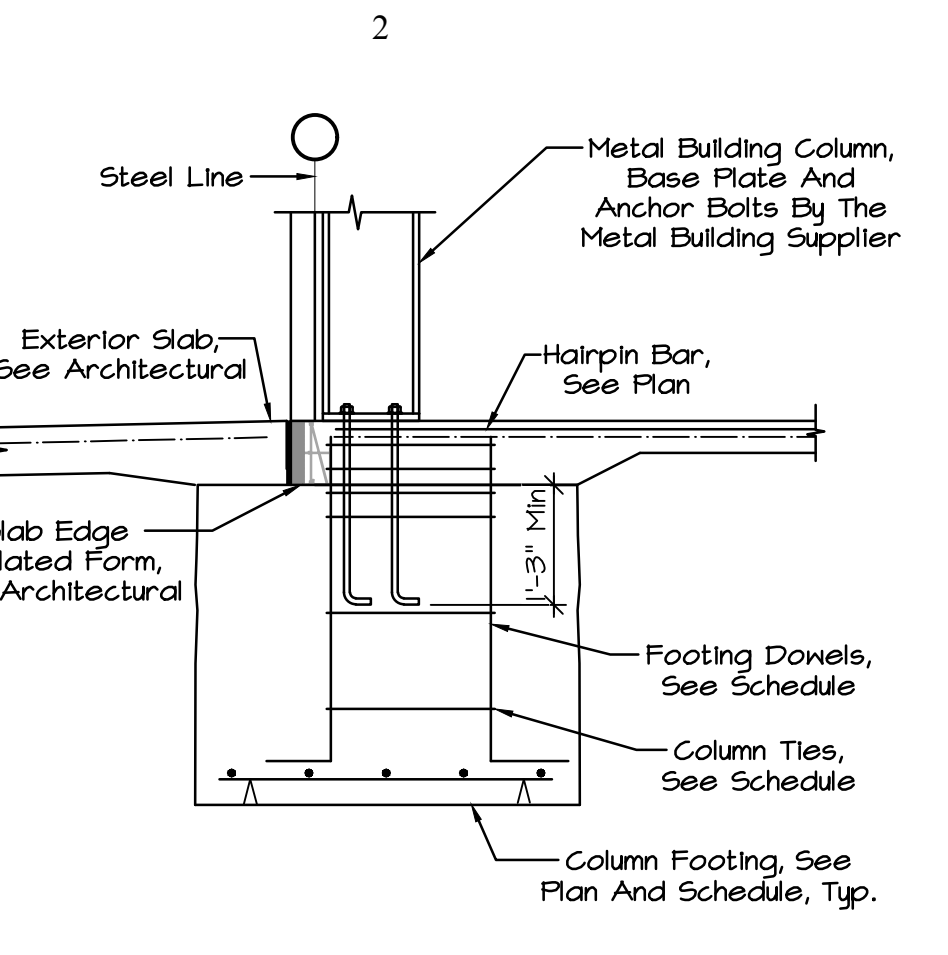


3 SECTION
1/2" = 1'-0"



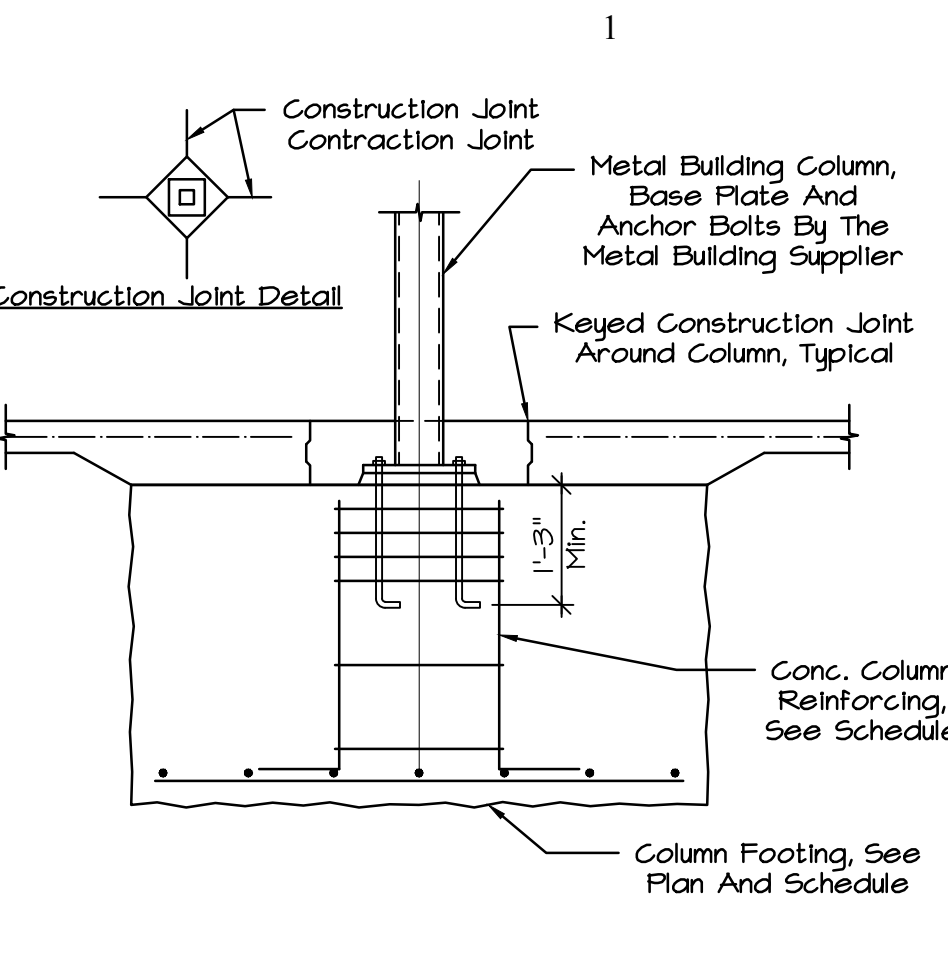
Center Column Footing Below Steel Column, U.N.O.

4 SECTION
1/2" = 1'-0"



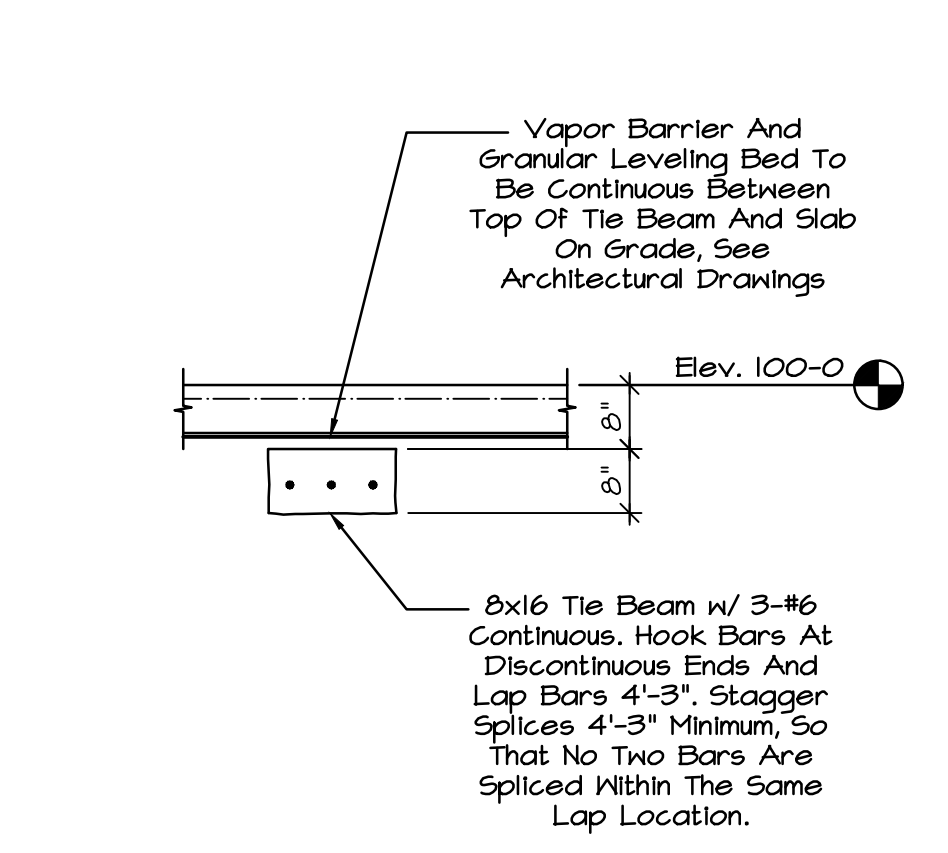
Center Column Footing Below Steel Column, U.N.O.

5 SECTION
1/2" = 1'-0"

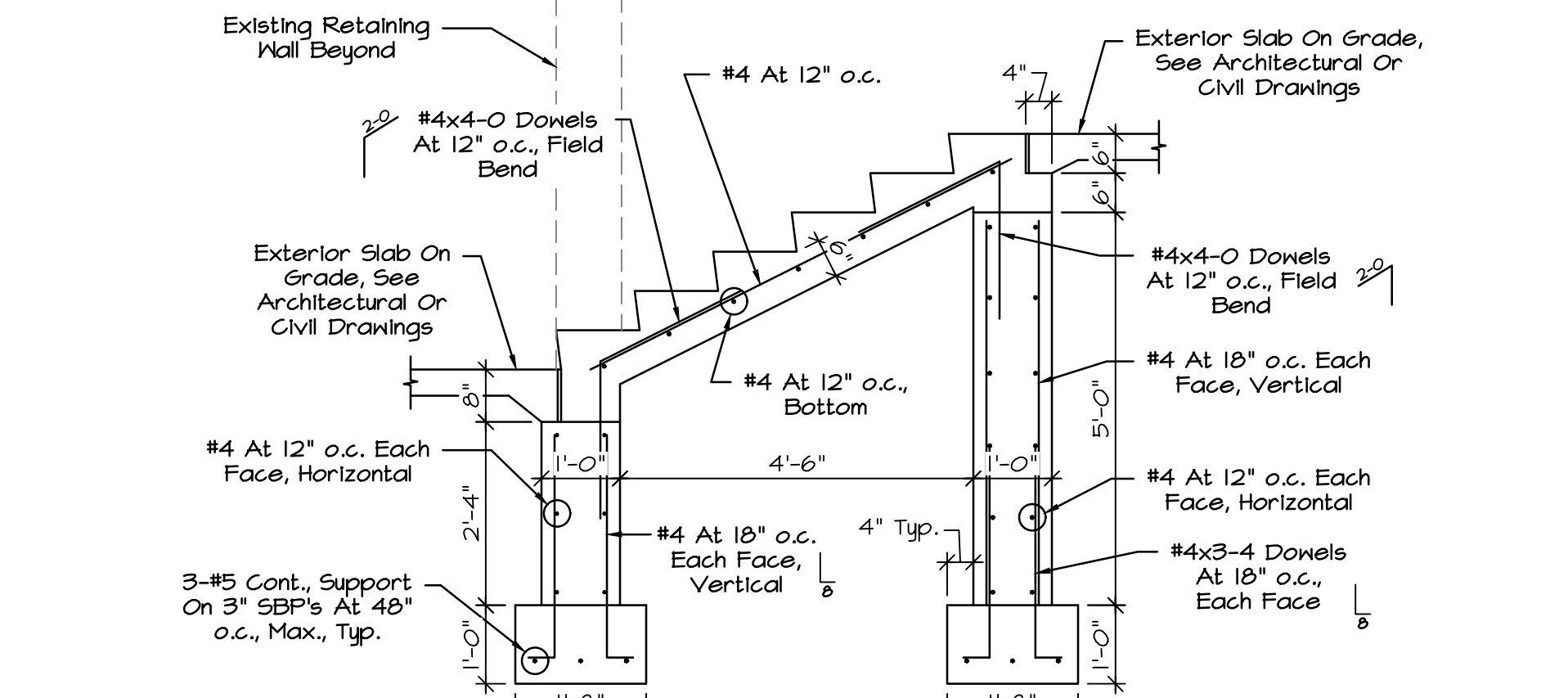


Center Column Footing Below Steel Column, U.N.O.

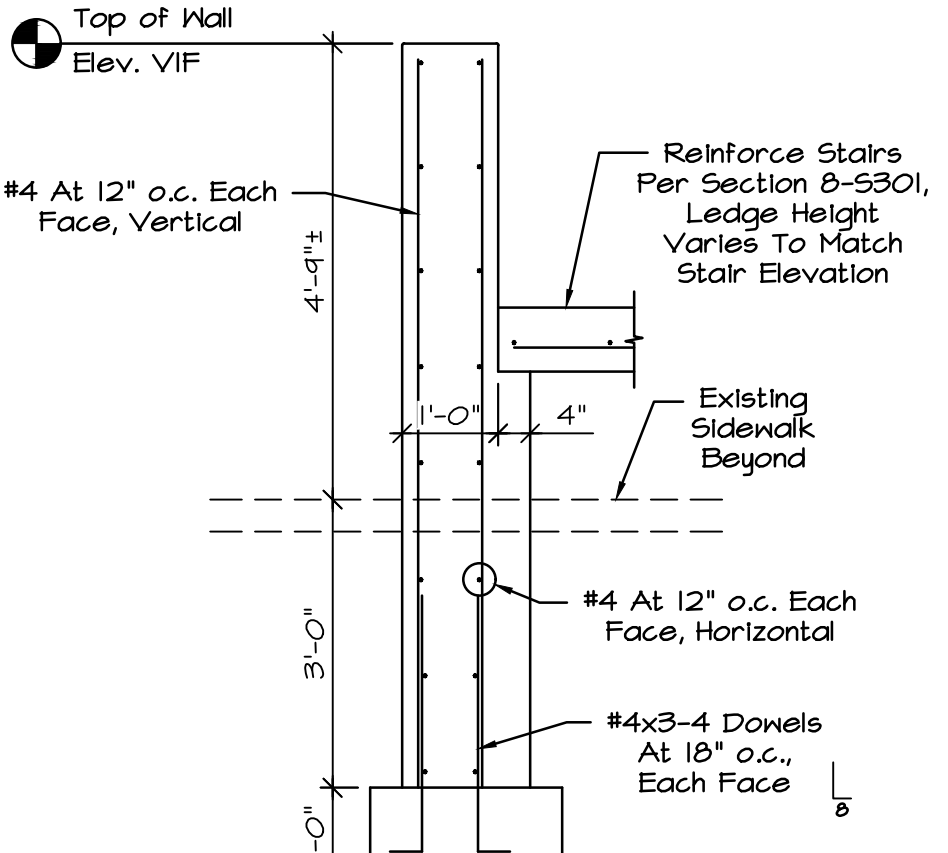
6 SECTION
1/2" = 1'-0"



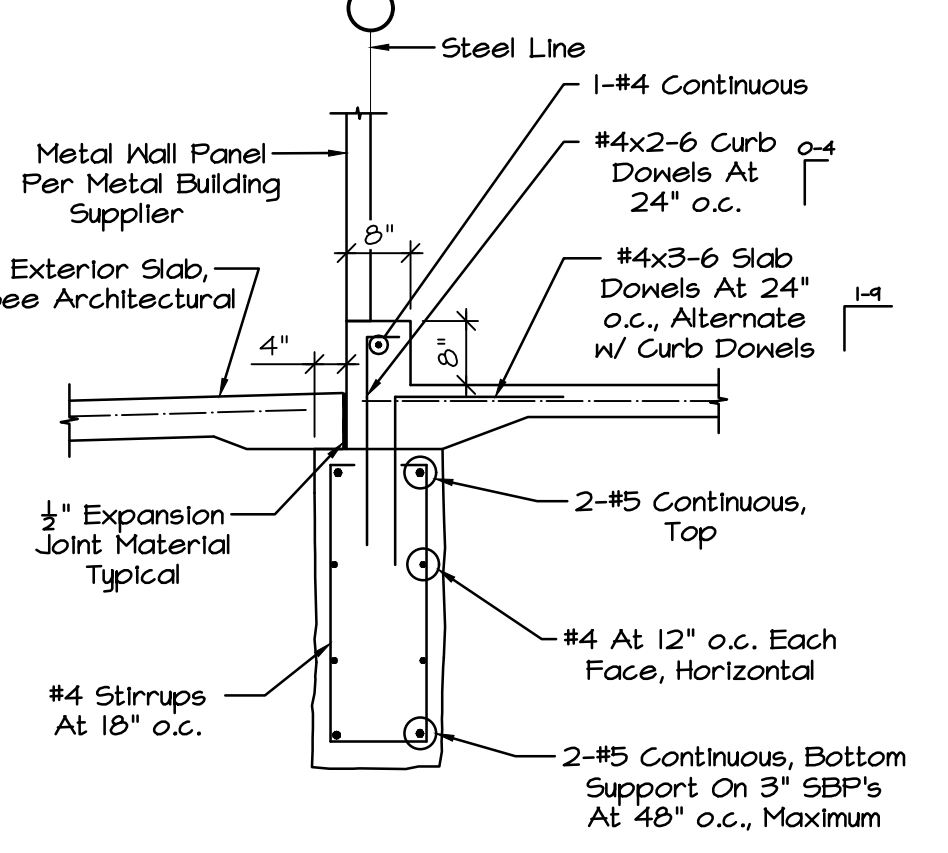
7 TYPICAL TIE BEAM DETAIL
1/2" = 1'-0"



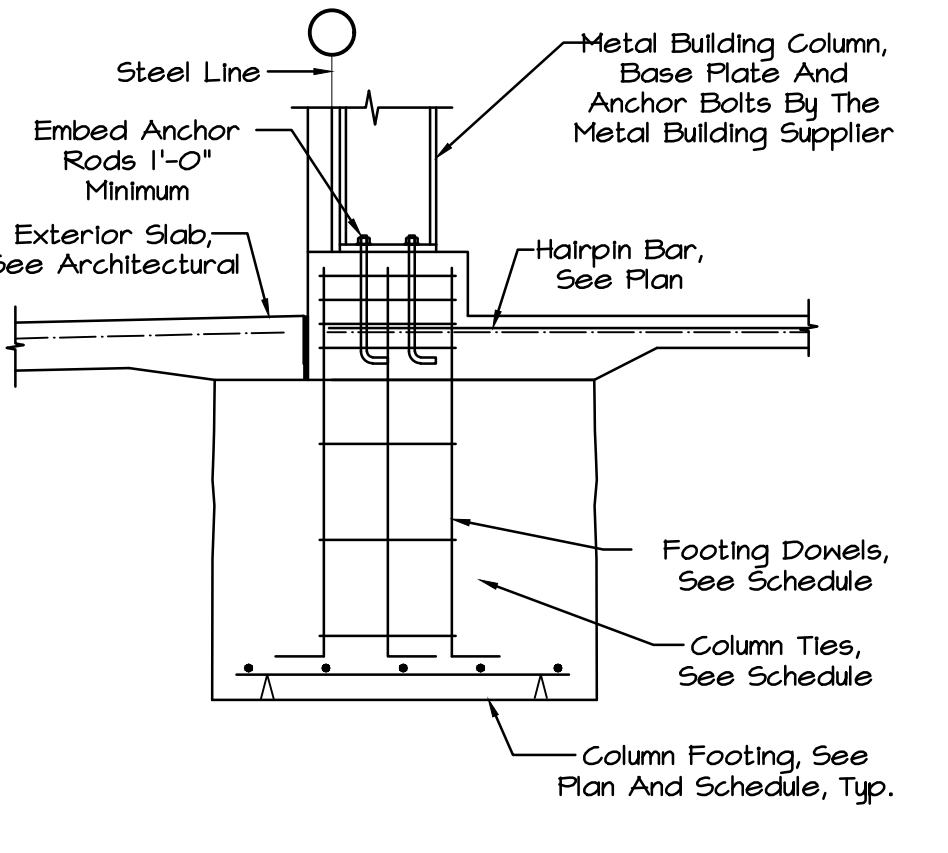
8 SECTION
1/2" = 1'-0"



9 SECTION
1/2" = 1'-0"

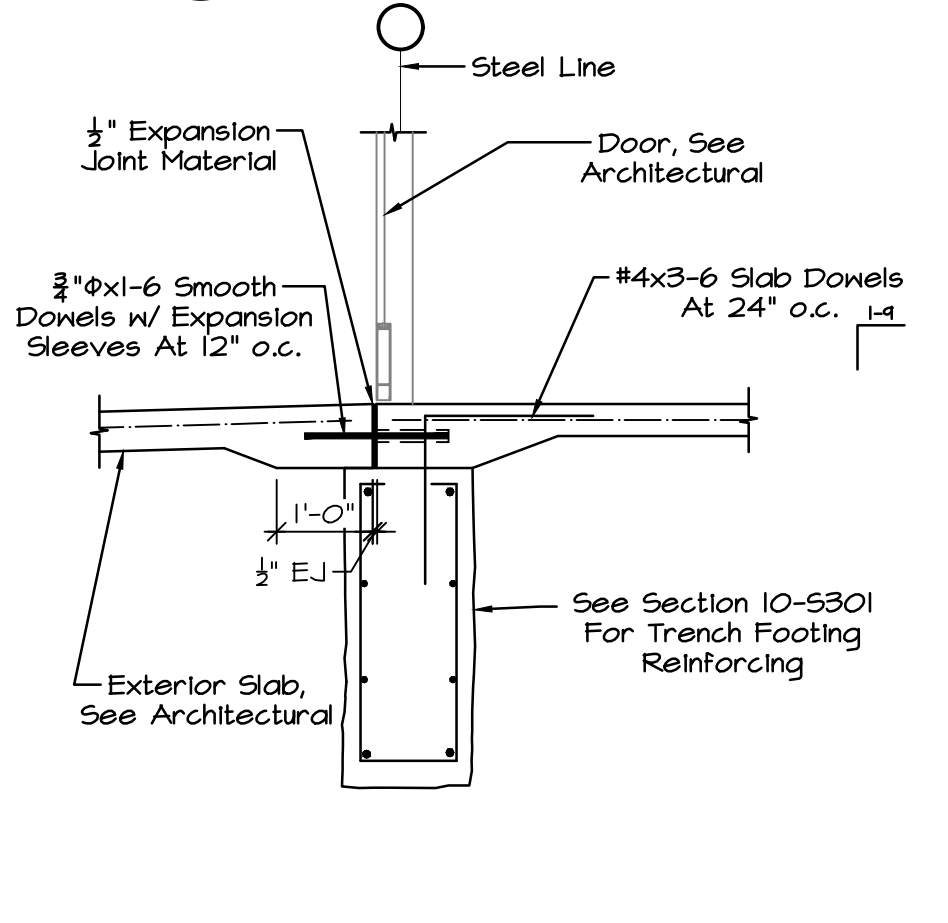


10 SECTION
1/2" = 1'-0"

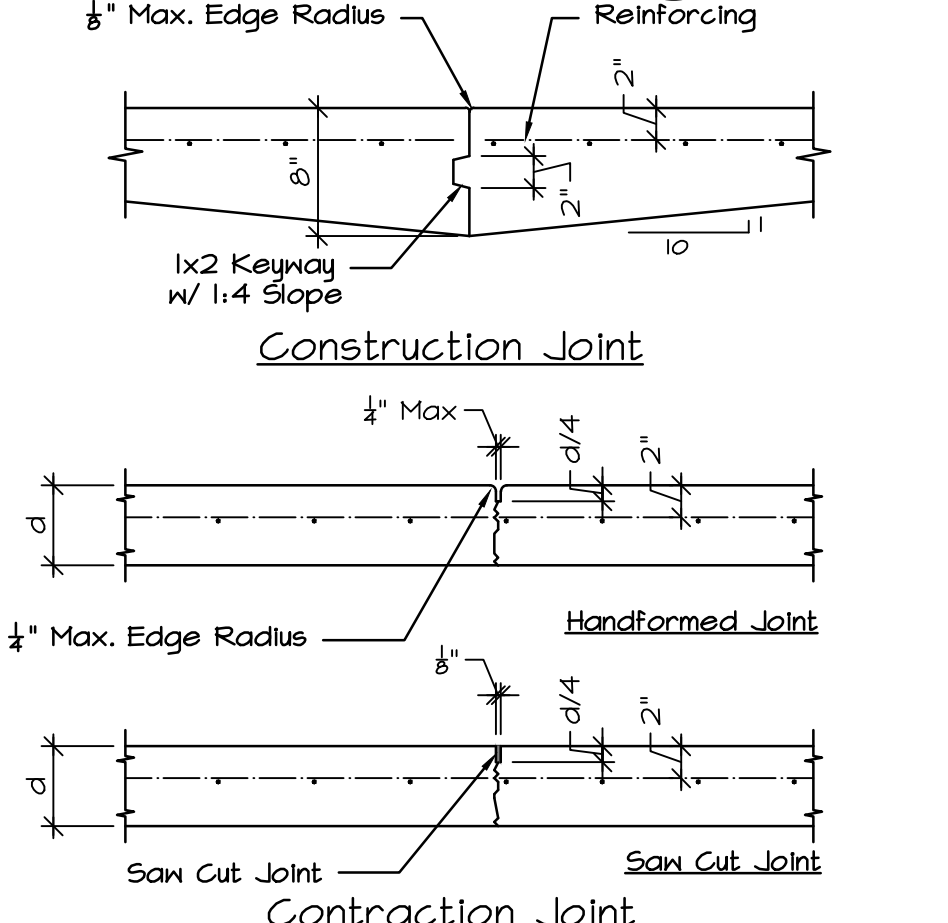


Center Column Footing Below Steel Column, U.N.O.

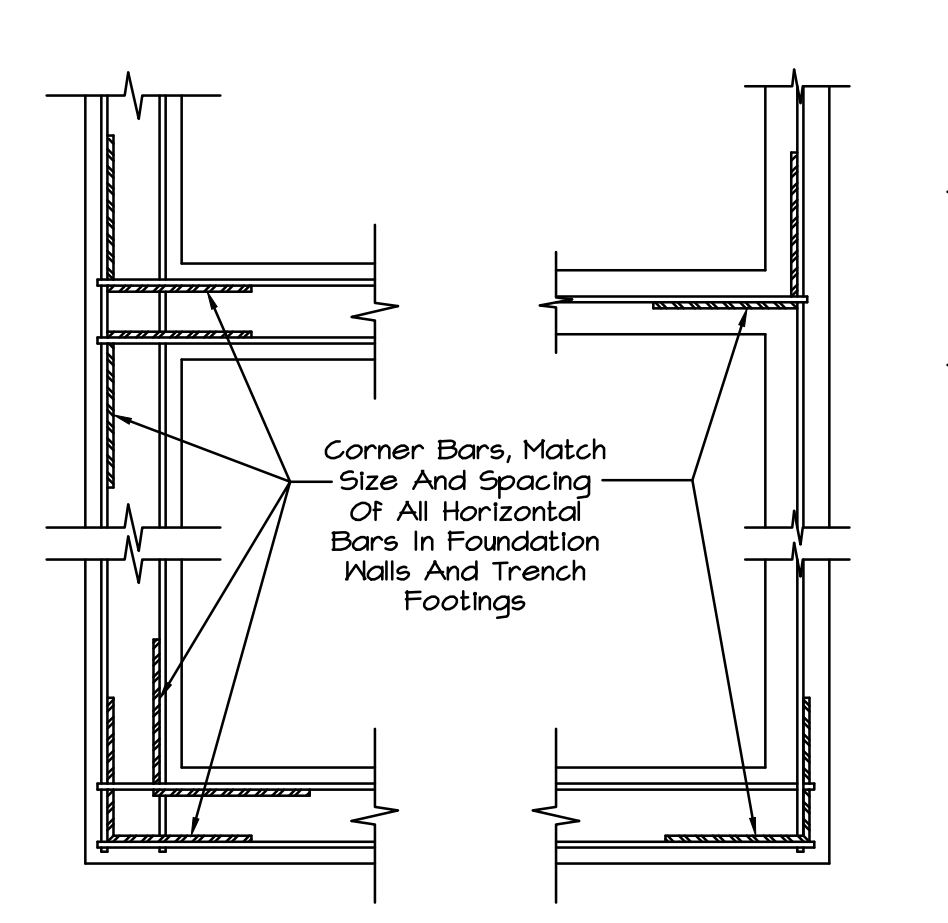
11 SECTION
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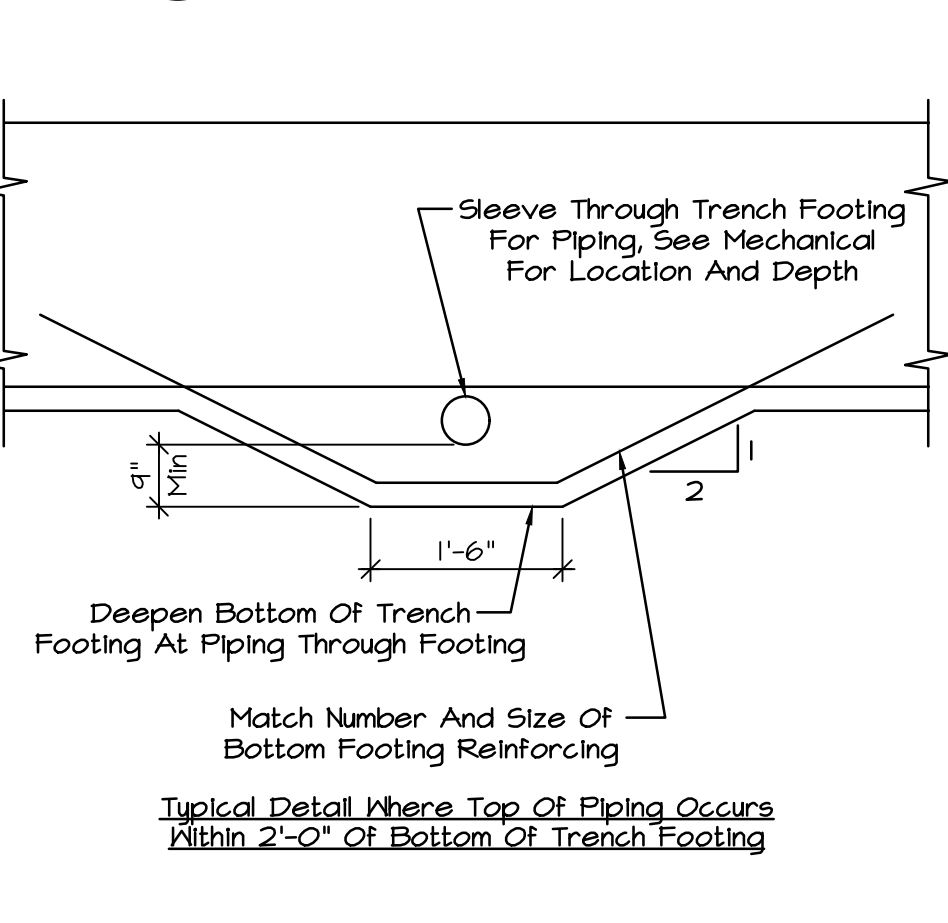
12 SECTION
1/2" = 1'-0"



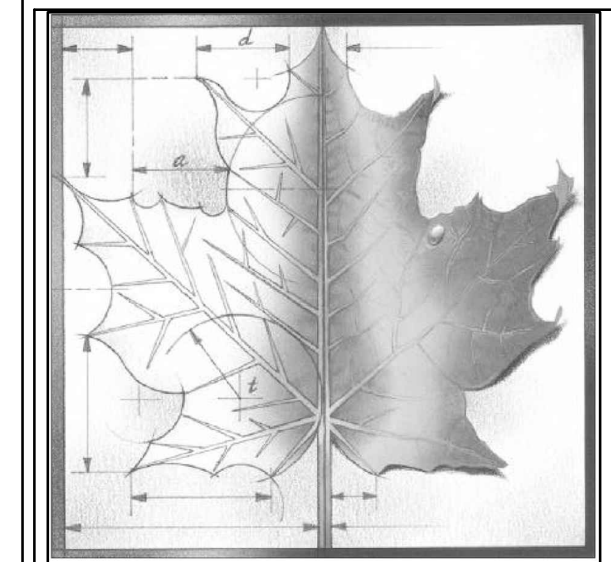
13 TYPICAL SLAB JOINT DETAILS
No Scale



14 CORNER BAR DETAIL
No Scale



15 TYP. FOUNDATION DETAIL
1/2" = 1'-0"

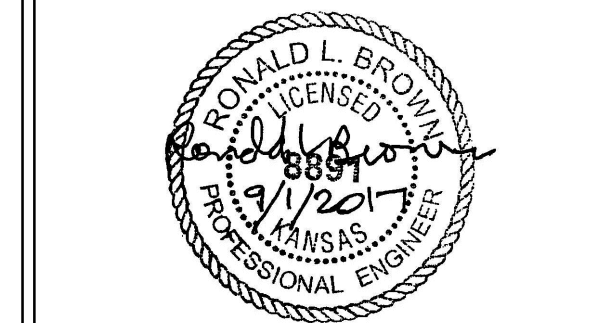


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5301 in 1/17-045/17-045.03/5301 9/1/2017 [40] [124]



REV	DESCRIPTION	DATE

Project Number: 17036

Date: 9/1/17

Project Name:

**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:

**FOUNDATION
SECTIONS
AND DETAILS**

Sheet:
S301

Of:

ABBREVIATIONS:

THE FOLLOWING LIST OF ABBREVIATIONS MAY BE USED IN THE CONTRACT DOCUMENT DRAWINGS.

Table of abbreviations including AND, ANGLE, DIAMETER, NUMBER OR POUND, ACoust, ADJ, A.F.F., ALUM, APPROX, ARCH, BD, BLDG, BLKG, B.O., BRG, B.S., C, CH, C.J., C.L., C.M.U., COL, CONG, CONN, CONSTR, CONT, CONTR, CTR, DBL, DIA, DIM, DN, DR, DWS, EA, E.F., EL, ELEC, ELEV, EQ, EQUIP, E.S., EXP, EXIST, EXT, E.V., FIN, FL, F.O.F., F.O.S., FR, FT, FUR, F.D., GA, GALV, GL, G.S., GYP. BD., HDVL, HDVD, H.M., HORIZ, HT, I.D., IN, INFO, INSUL, INT, L, L.T. (L.T.G.), L.W.C.

MATERIAL IDENTIFICATION KEY:

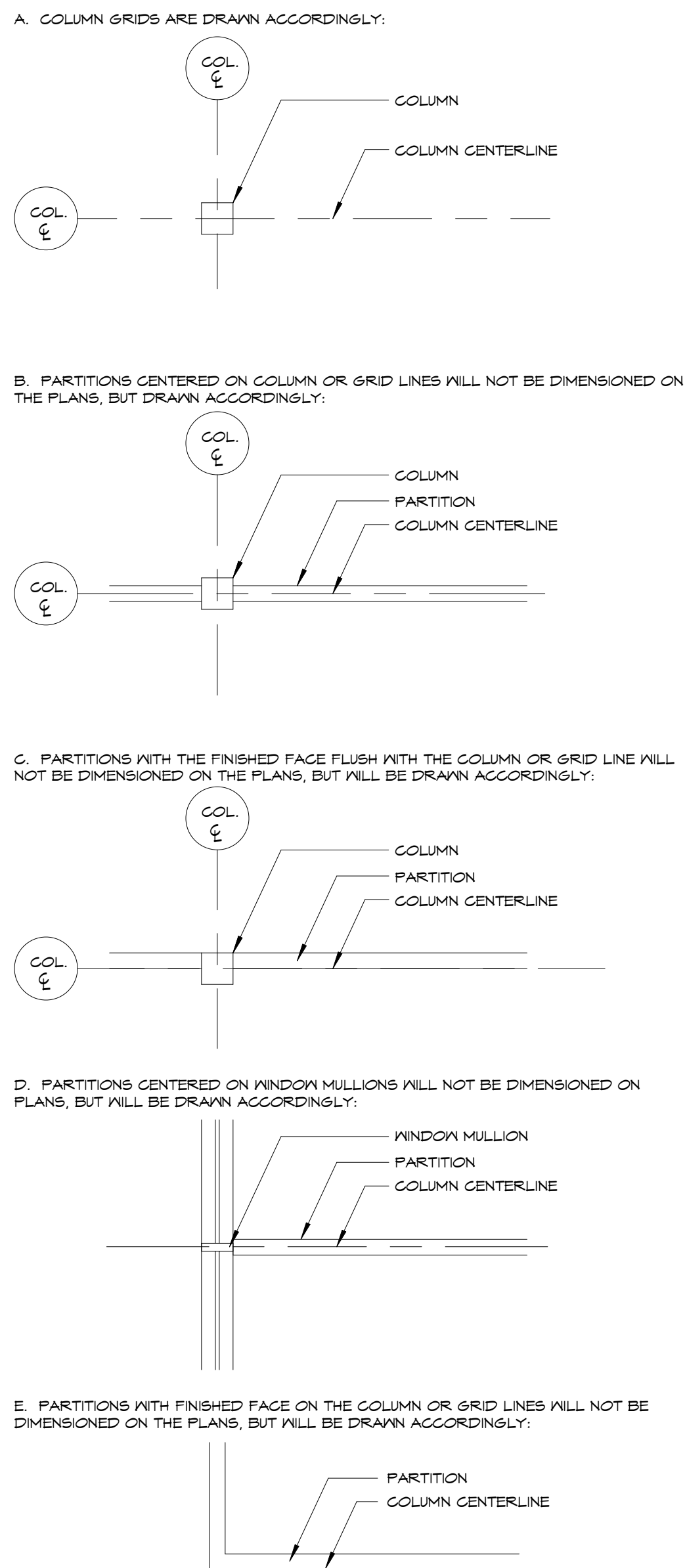
Material identification key showing patterns for CONCRETE, CONCRETE MASONRY UNITS, PRECAST CONCRETE, EARTH, STEEL, DISCONTINUOUS LUMBER, CONTINUOUS LUMBER, RIGID INSULATION, BLANKET INSULATION, GYPSUM BOARD, PLYWOOD, FINISHED WOOD, GRANULAR FILL, METAL STUD FRAMING, WOOD STUD FRAMING.

DIMENSIONING CRITERIA:

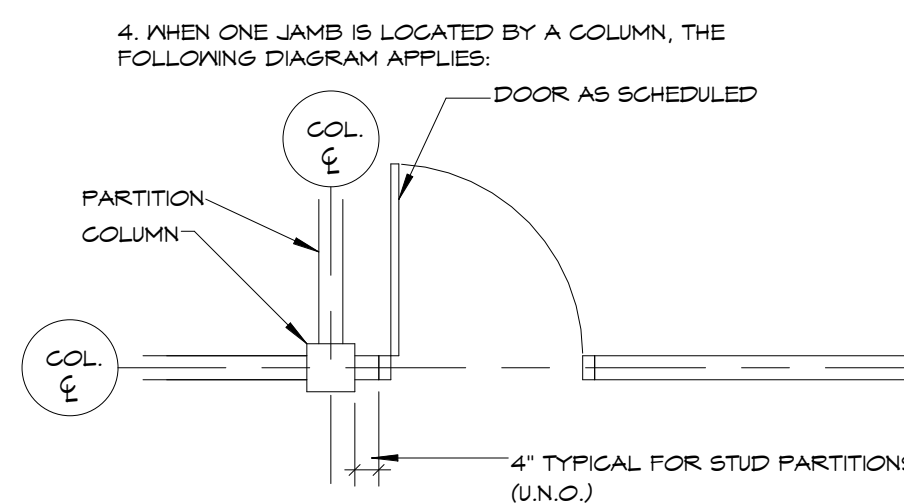
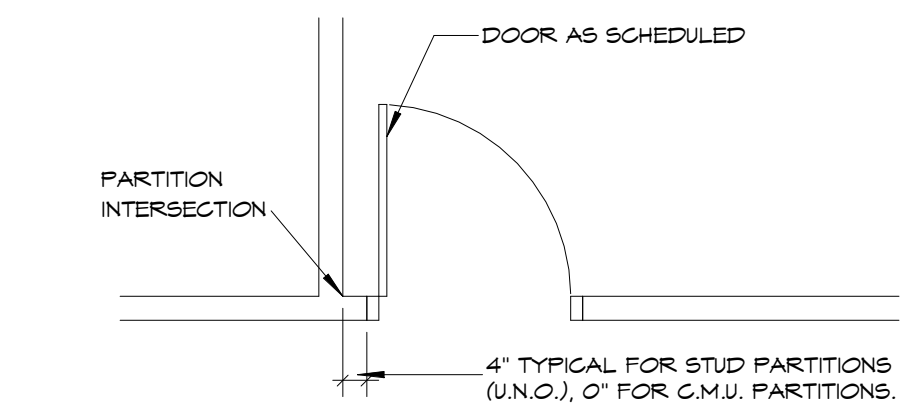
ALL DRAWINGS ARE INTENDED TO BE COMPLIMENTARY. NOTIFY THE ARCHITECT OF ANY DIMENSIONING DISCREPANCY PRIOR TO PROCEEDING.

DIMENSIONS ARE AS IDENTIFIED ON THE DOCUMENTS AND AS ESTABLISHED BY CRITERIA. THIS INVOLVES ESTABLISHING TYPICAL RULES GOVERNING PARTITION LOCATIONS AND THEN DIMENSIONING ONLY THE EXCEPTION TO THESE RULES. TYPICAL DIMENSIONING CRITERIA ARE OUTLINED BELOW.

COLUMN IDENTIFICATION DETAILS WILL GOVERN ALL DIMENSIONS AND FEW DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS.



F. FOR OPENINGS IN PARTITIONS OR WALLS: 1. WHEN ONE OCCURS AT A COLUMN OR GRID LINE, NO DIMENSIONS WILL BE SHOWN ON THE PLANS. THE OPENING WIDTH WILL BE ESTABLISHED BY EITHER CRITERIA OR SCHEDULES. 2. WHEN NEITHER JAMB OCCURS AT A PARTITION INTERSECTION, AT A COLUMN OR GRID LINE, ONE JAMB WILL BE LOCATED DIMENSIONALLY BY THE DETAIL. 3. WHEN ONE JAMB IS LOCATED BY AN INTERSECTING PARTITION, THE FOLLOWING DIAGRAM APPLIES.

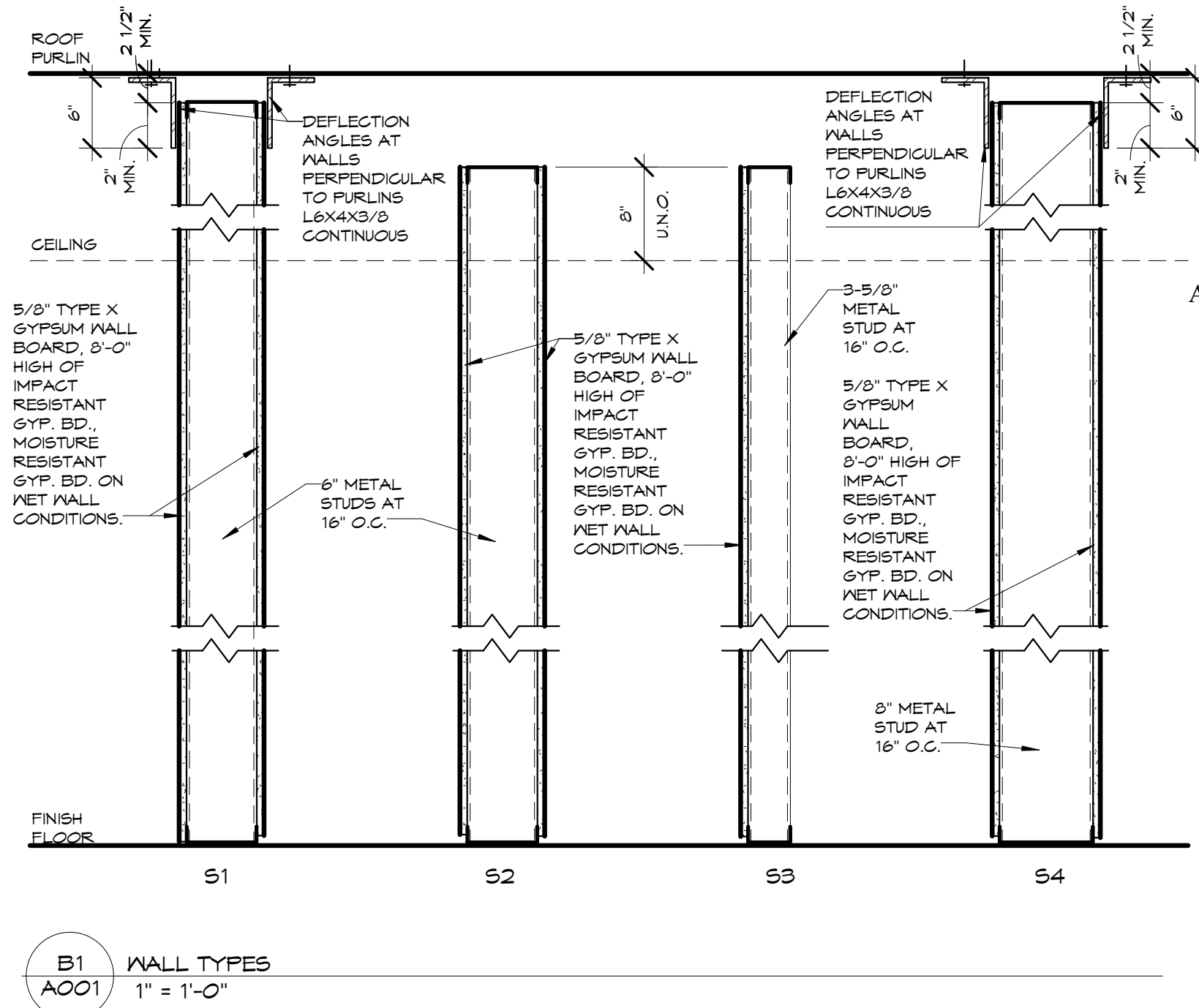


G. STUD PARTITIONS ARE DIMENSIONED FROM THE FACE OF ONE UNIT TO THE FACE OF ANOTHER UNIT. AT EXTERIOR WALLS DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF ANOTHER UNIT. H. MASONRY PARTITIONS ARE DIMENSIONED FROM THE NOMINAL FACE OF C.M.U., BRICK OR STONE TO THE FACE OF ANOTHER UNIT.

GRAPHIC SYMBOLS/STANDARDS:

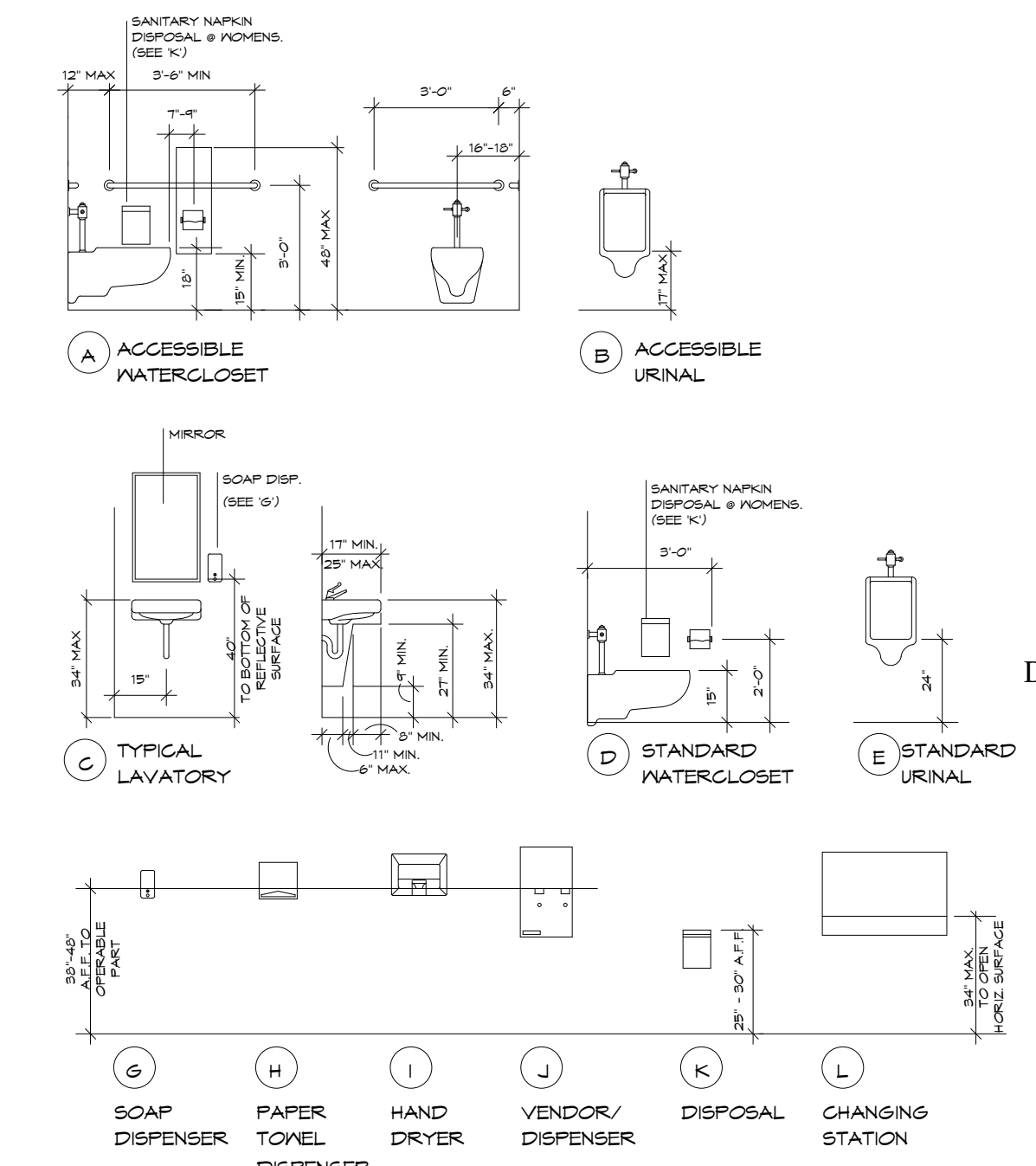
- A. COLUMN AND/OR GRID LINES: 2
B. FLOOR PLAN MATCHLINE SYMBOL:
C. CENTERLINE SYMBOL:
D. BAR GRAPH SYMBOL:
E. NORTH ARROW:
F. SPECIFICATION SECTION REFERENCE SYMBOL: XX
G. SPOT ELEVATION SYMBOL:
H. ELEVATION REFERENCE SYMBOL:
I. DETAIL REFERENCE SYMBOL: X/AXX
J. INTERIOR ELEVATION REFERENCE SYMBOL: X/AXX
K. BUILDING SECTION REFERENCE SYMBOL: X/AXX
L. DETAIL REFERENCE SYMBOL: X/AXX
M. DETAIL REFERENCE SYMBOL: X/AXX TITLE SCALE
N. WINDOW REFERENCE SYMBOL: X
O. ROOM NUMBER/NAME SYMBOL: 1. THE FIRST NUMERAL OF A ROOM NUMBER ACTS AS A FLOOR LEVEL INDICATOR...
P. ACCESSORY REFERENCE SYMBOL: X
Q. WALL PARTITION TYPE SYMBOL: (SEE WALL TYPES)
R. EXISTING ASSEMBLY

- S. REVISIONS SYMBOLS:
T. DETAIL NOTE SYMBOL:
U. RATED WALL CONSTRUCTION SYMBOLS:
V. FIRE EXTINGUISHER IDENTIFICATION SYMBOLS:
W. CEILING IDENTIFICATION SYMBOLS:
X. CEILING REFERENCE SYMBOLS:
Y. PLAN SYMBOLS:



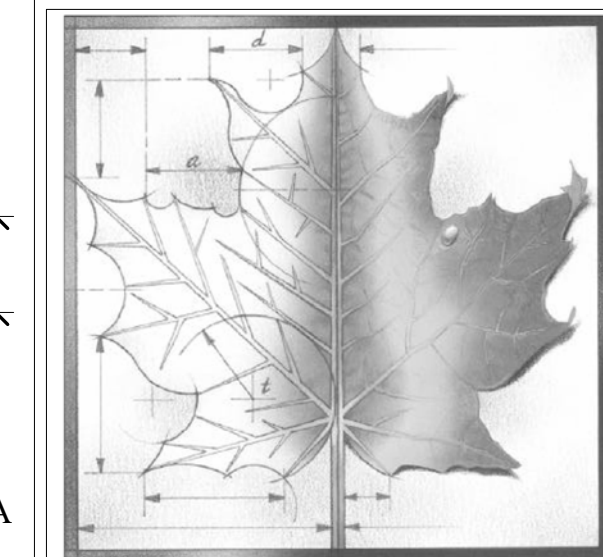
B1 WALL TYPES 1" = 1'-0"

TOILET ACCESSORIES KEY:



GENERAL NOTES:

- 1. NONE TO ALL OF THE LISTED CRITERIA, SYMBOLS, ETC. MAY OR MAY NOT BE USED IN THIS SET OF CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING WEATHER-TIGHT CONSTRUCTION, DETAILS AND OMISSIONS TO THE DRAWINGS NOTWITHSTANDING.
3. ALL FINISH COLORS, TEXTURE, AND PATTERNS TO BE SELECTED BY THE ARCHITECT AND APPROVED PRIOR TO INSTALLATION.
4. ANY PIPE OR CONDUIT PENETRATION THRU EXTERIOR CONSTRUCTION SHALL BE SEALED AT BOTH SIDES FOR A WATER-TIGHT CONDITION, OR FOR FIRE STOP ASSEMBLIES THROUGH RATED WALLS.
5. ALL FLOORS WITH DRAINS SHALL HAVE A MINIMUM OF 1/8" PER FOOT SLOPE TO DRAIN, U.N.O..
6. CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND NEW DIMENSIONS OF THE PROJECT AND CONFIRM SUCH TO BE APPROPRIATE AND COMPATIBLE WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY FOR CLARIFICATION OR ABOUT ANY CONDITION REQUIRING MODIFICATION OR CHANGE BEFORE PROCEEDING WITH THE WORK.
7. ALL EXPOSED C.M.U. CORNERS TO BE BULL NOSE. COORDINATE EXCEPTIONS WITH ARCHITECT.



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Table with columns: REV, DESCRIPTION, DATE



Project Number: 17036

Date: 9/1/17

Project Name:

USD 320 MULTIPURPOSE BUILDING

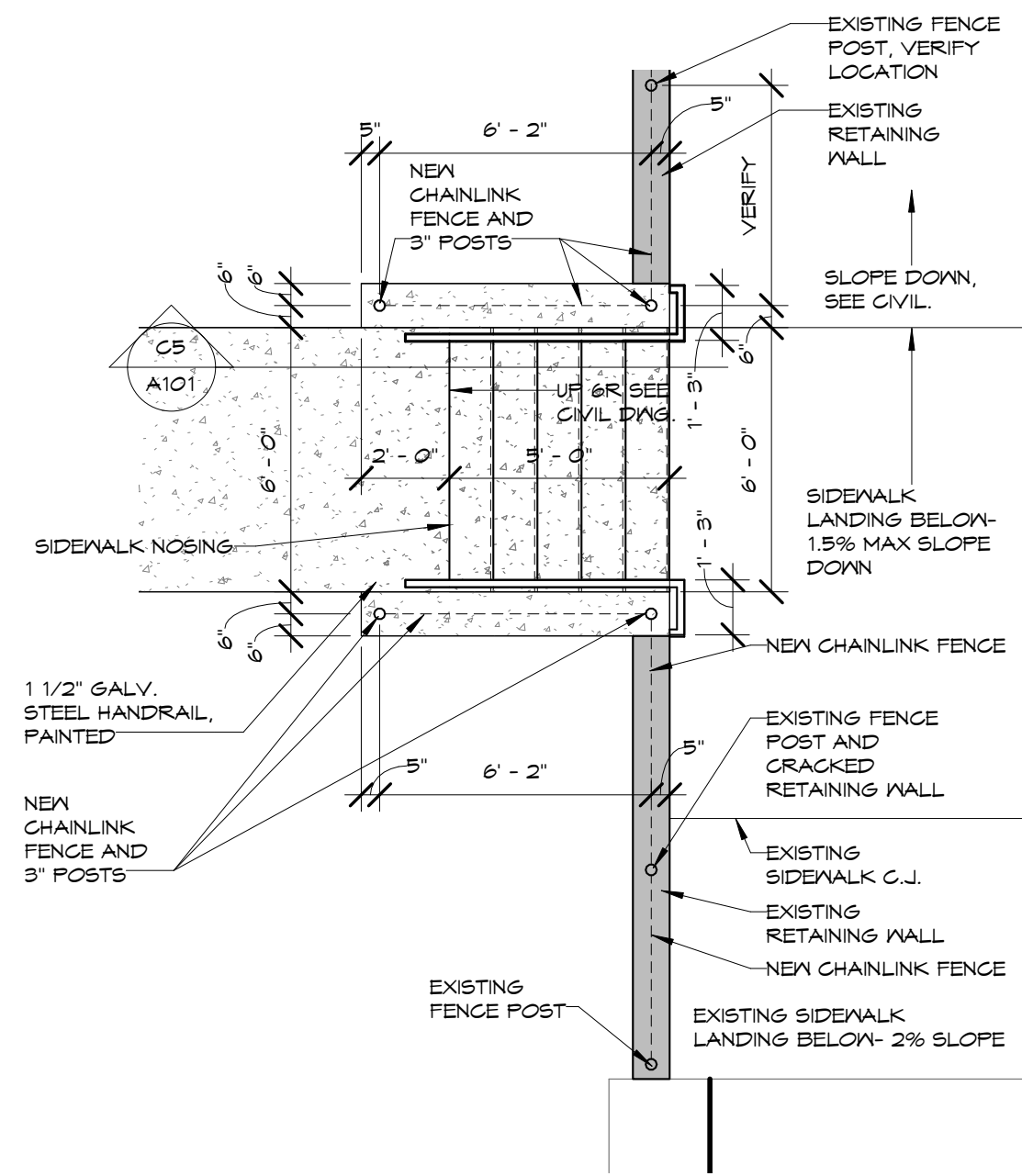
Project Address: WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547

Sheet Title:

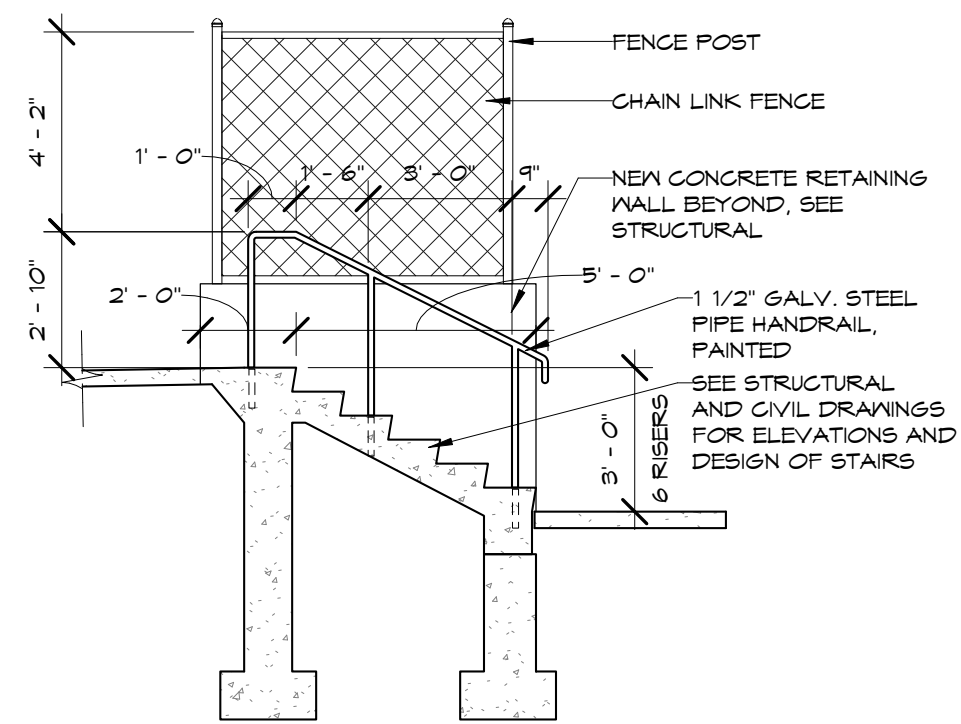
GENERAL INFORMATION

Sheet: A001

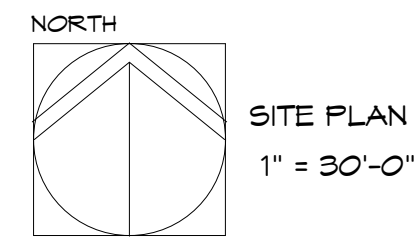
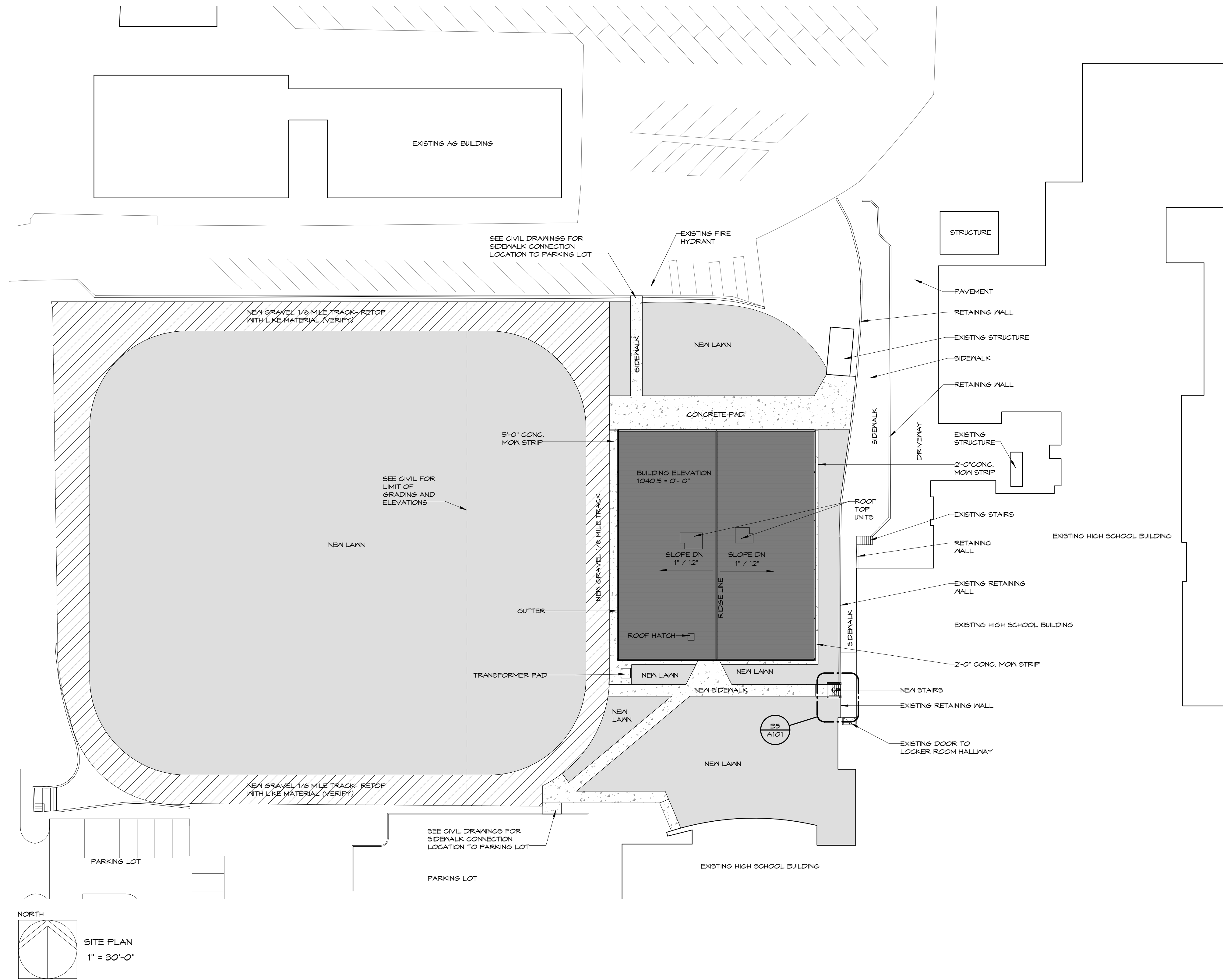
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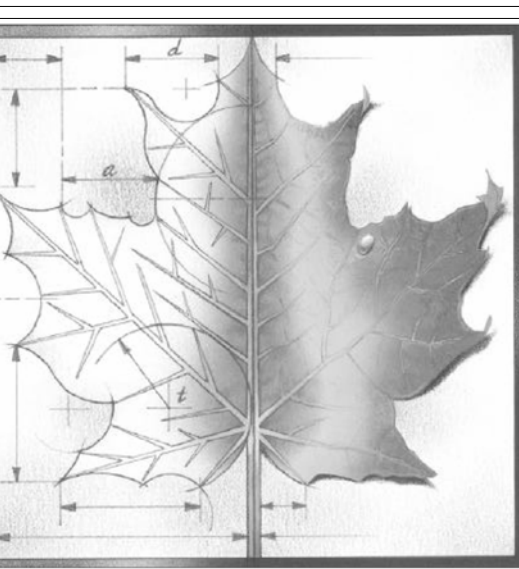
B5 STAIR PLAN
A101 1/4" = 1'-0"



C5 STAIR SECTION
A101 1/4" = 1'-0"



SITE PLAN
1" = 30'-0"



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REV	DESCRIPTION	DATE



Project Number: **17036**

Date: **9/1/17**

Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:

SITE PLAN

Sheet:

A101

Of:

ROOM FINISH SCHEDULE													
NUMBER	NAME	FLOOR	BASE	NORTH		EAST		SOUTH		WEST		CEILING	
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	HEIGHT
101	ENTRANCE	WOC	R	GYP	EP	GYP	EP	GYP/SF	EP	GYP	EP	APC-2	9'-6"
102	RESTROOM	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	APC-2	8'-0"
103	RESTROOM	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	APC-2	8'-0"
104	OFFICE	SC	R	GYP	P	GYP	P	GYP	P	GYP	P	APC-2	8'-0"
105	WEIGHTS	SC/SF1/SF2/ST	R	IMP	---	GYP/IMP/MR	F/MR	GYP/IMP	P	GYP	EP	L	
106	JAN/MECH	SC	R	GYP	EP	GYP	EP	GYP	EP	GYP	EP	L	
107	OFFICE	SC	R	GYP	P	GYP	P	GYP	P	GYP	P	APC-2	8'-0"
108	STORAGE	SC	R	GYP	P	GYP	P	GYP	P	GYP	P	L	
104	WRESTLING	SC	R	GYP/IMP/MP	EP	GYP/MP	EP	GYP/MP	EP	GYP/MP/MP	EP	L	

FINISH SCHEDULE KEY:

FLOOR FINISH:
 SC - SEALED CONCRETE
 WOC - WALK OFF CARPET
 SF1 - SPORTS FLOOR- GRAY
 SF2 - SPORTS FLOOR- RED
 ST - SYNTHETIC TURF

BASE FINISH:
 R - RUBBER BASE

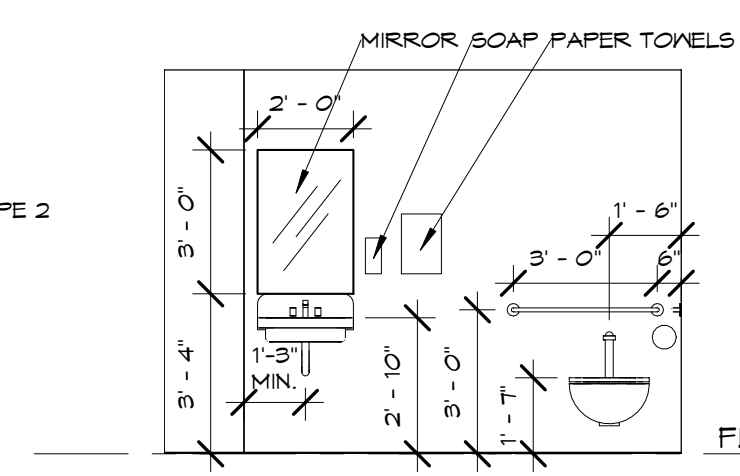
WALL MATERIAL:
 GYP - GYPSUM WALL BOARD
 IMP - INSULATED METAL PANEL
 MP - WALL PAD
 MR - MIRROR
 SF - STOREFRONT

WALL FINISH:
 EP - EPOXY PAINT
 P - PAINT (LATEX)
 MR - MIRROR

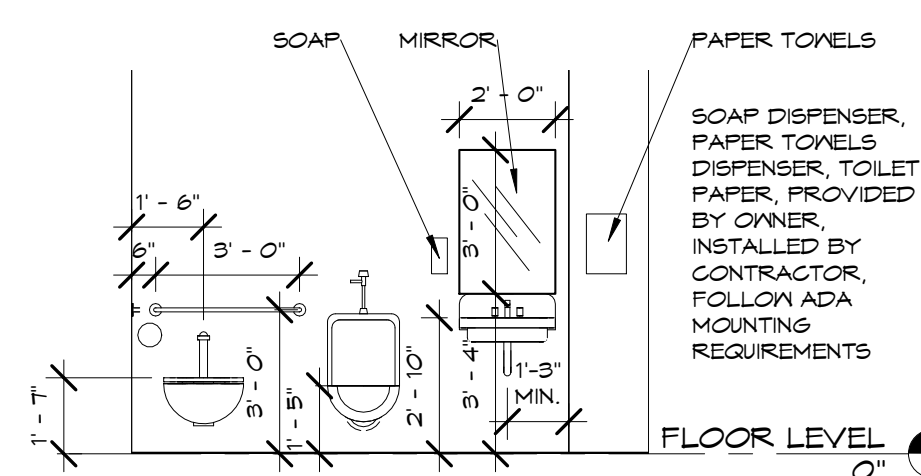
CEILING FINISH:
 L - LINER (METAL BUILDING)
 APC-2 - ACOUSTIC PANEL CEILING- TYPE 2

NOTES:

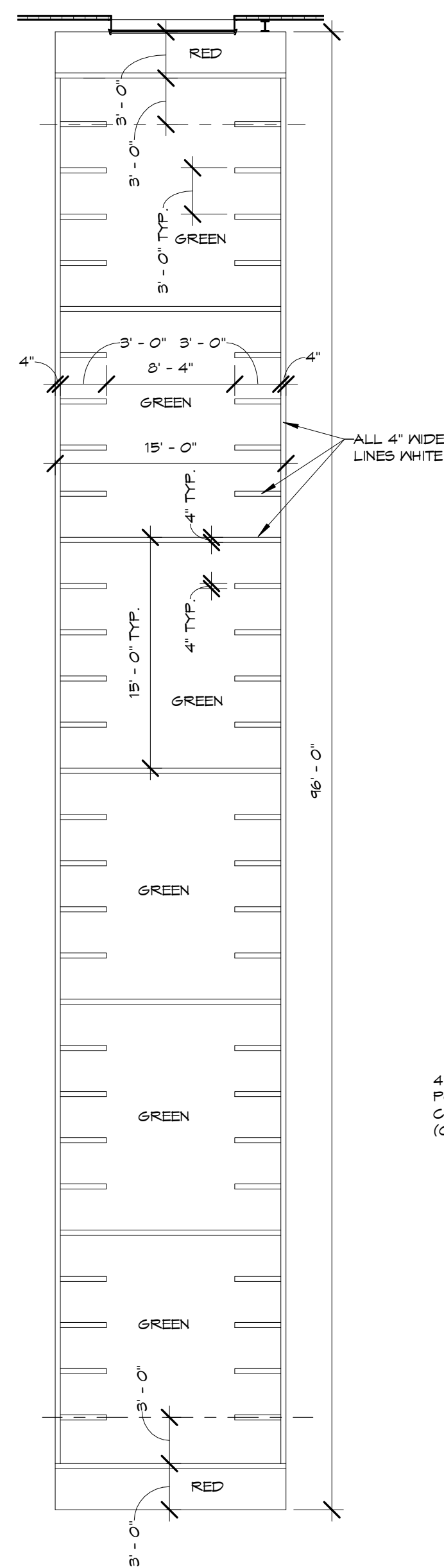
ALL GYP BELOW 8'-0" TO BE IMPACT RESISTANT TYPE X GYPSUM WALL BOARD. ALL GYP BOARD ON MET WALL CONDITIONS TO BE MOISTURE RESISTANT.



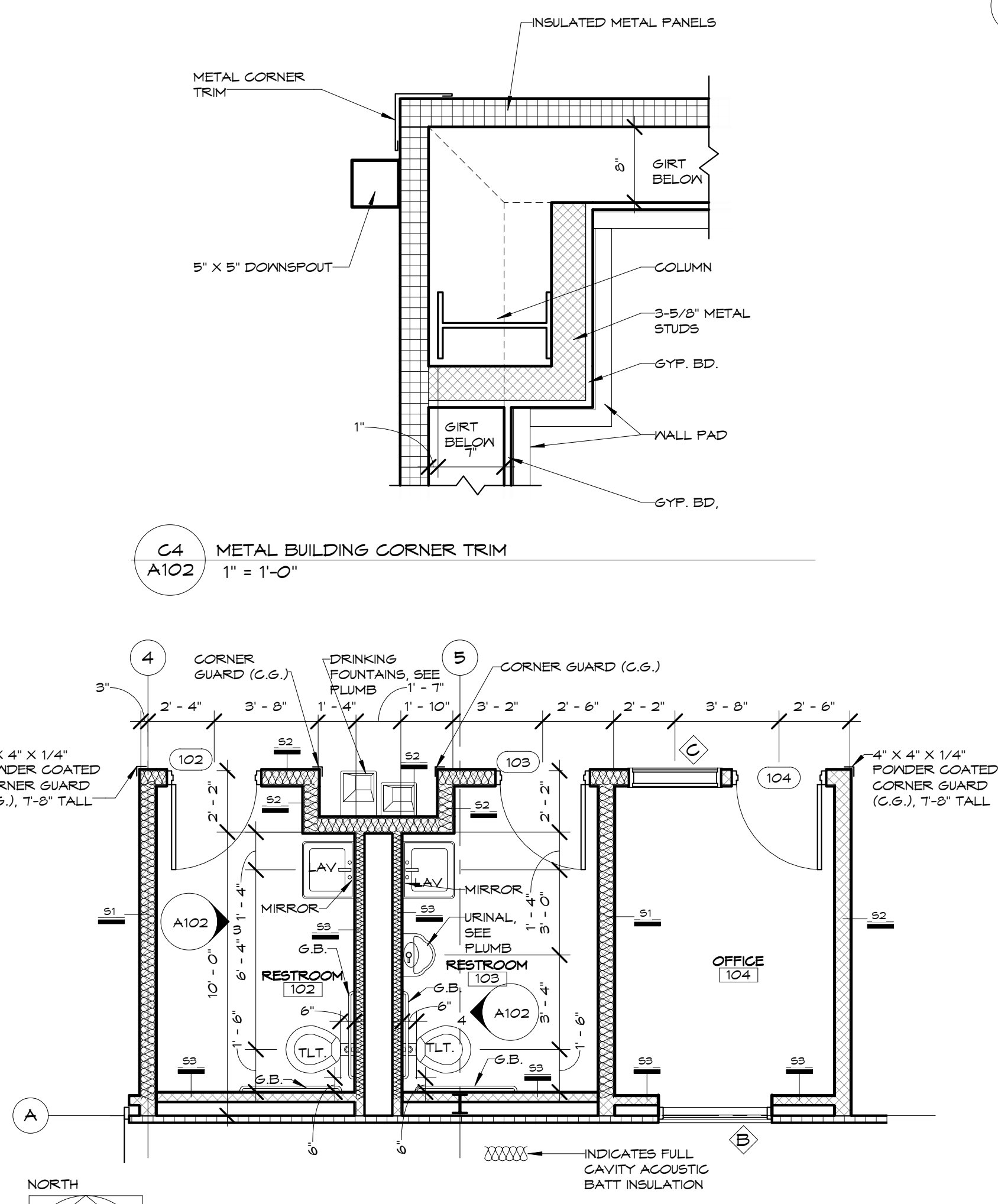
3 RESTROOM 102 ELEVATION
1/4" = 1'-0"



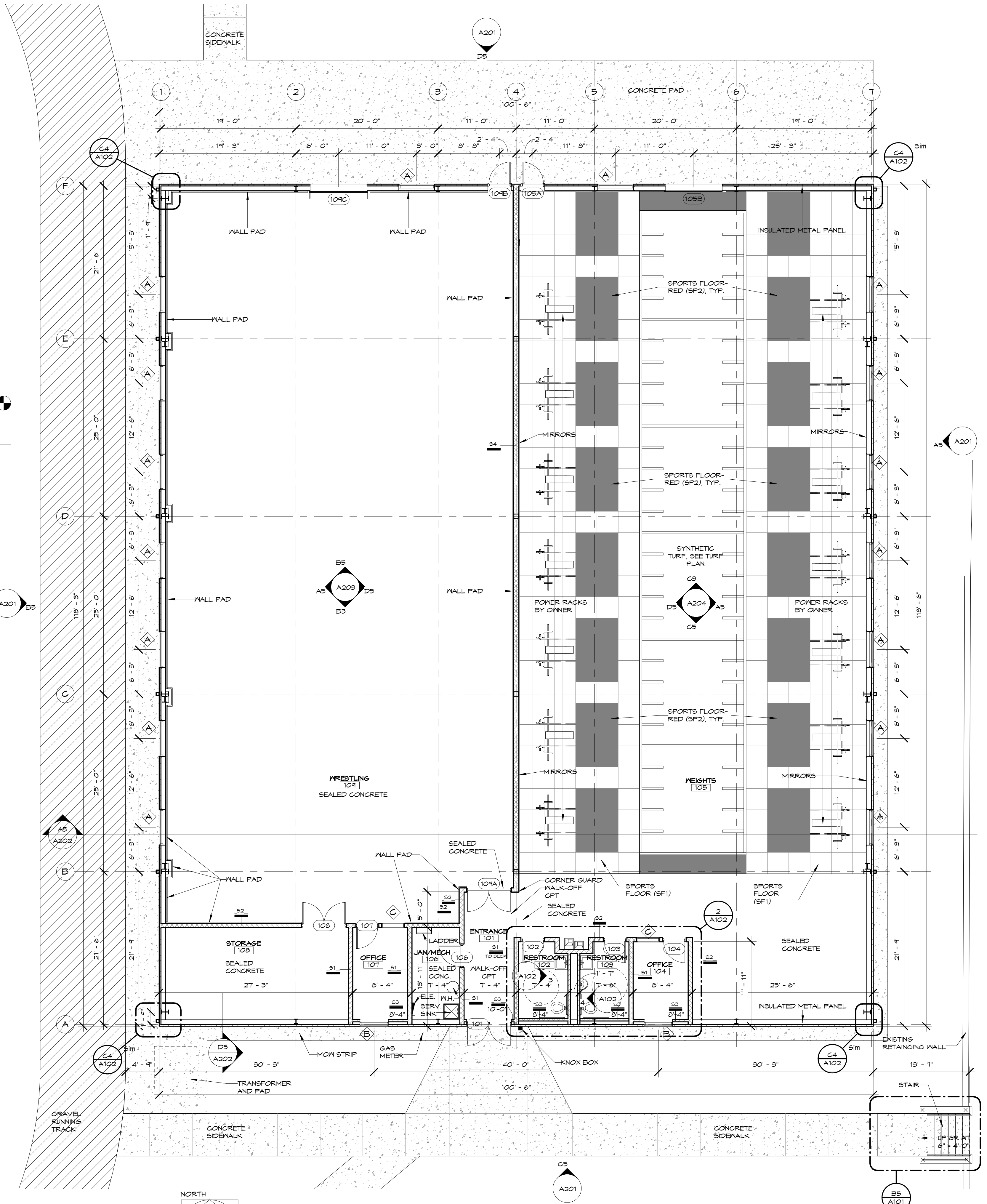
4 RESTROOM 103 ELEVATION
1/4" = 1'-0"



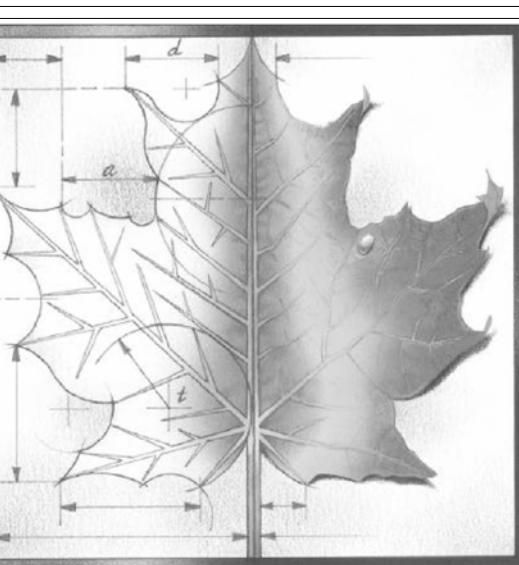
D5 SYNTHETIC TURF PLAN
1/8" = 1'-0"



RESTROOM ENLARGED PLAN
1/4" = 1'-0"



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

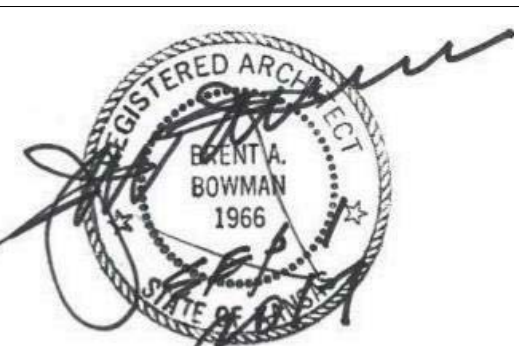


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REV	DESCRIPTION	DATE



Project Number: 17036
 Date: 9/1/17

Project Name: **USD 320 MULTIPURPOSE BUILDING**

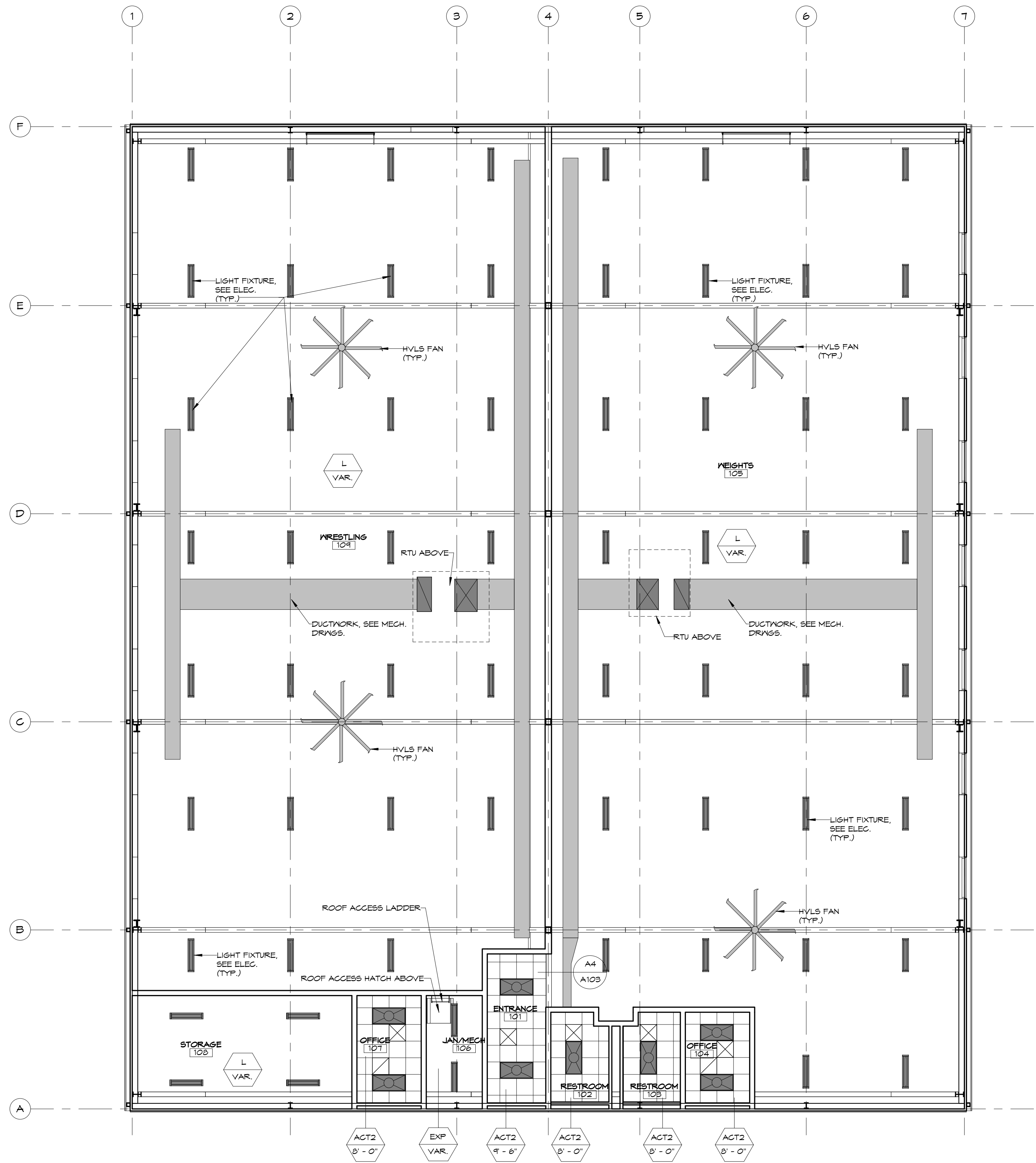
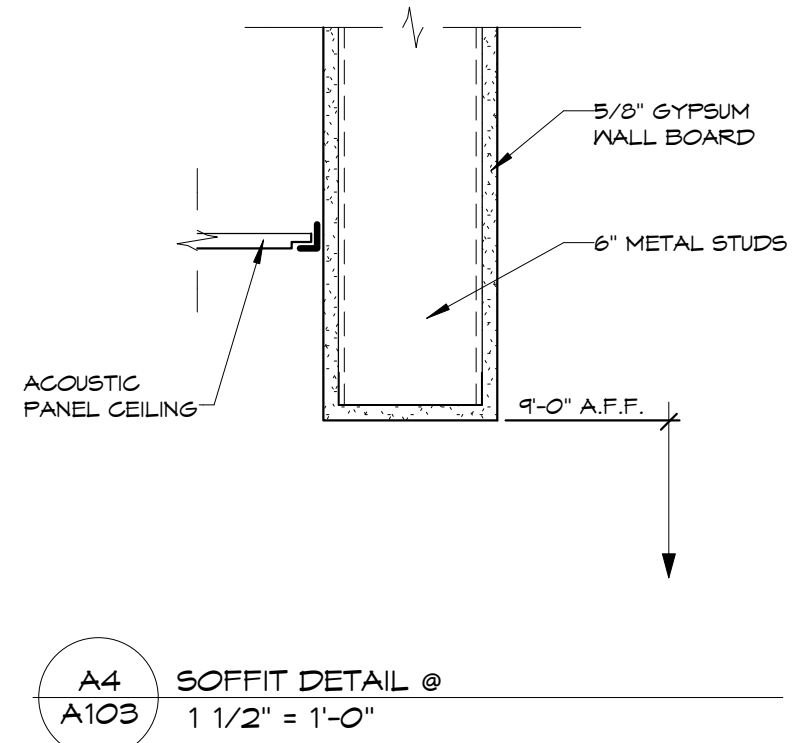
Project Address: **WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547**

Sheet Title:

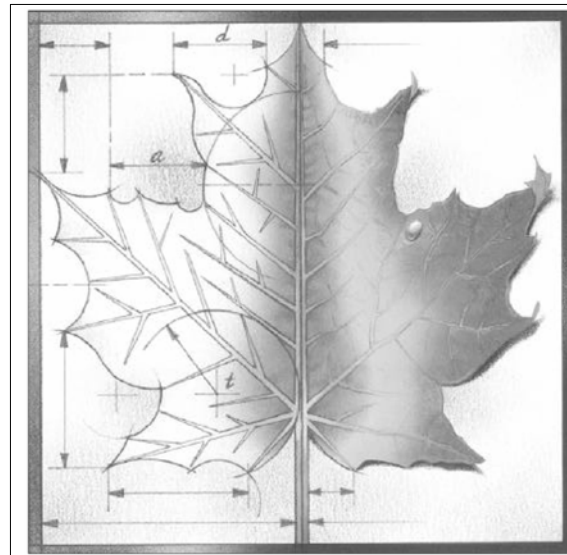
FLOOR PLAN

Sheet: **A102**

Of:



1 EXISTING PLAN
A103 1/8" = 1'-0"



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Date: 9/1/17

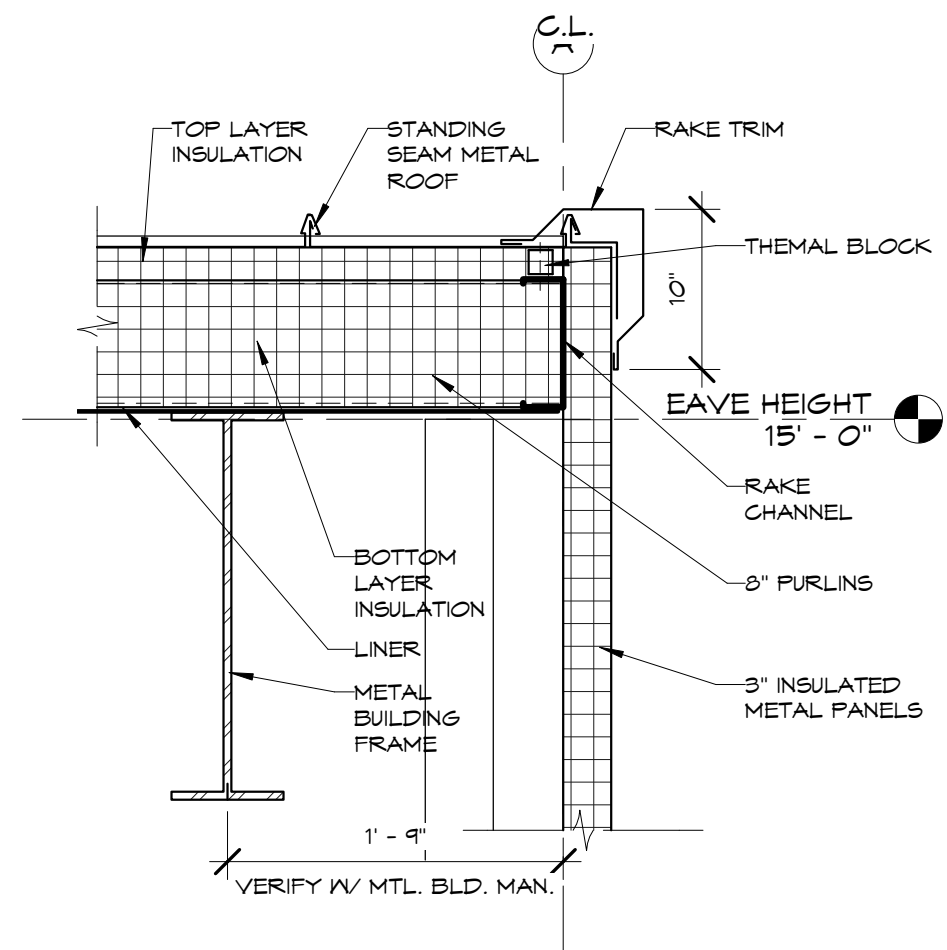
Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

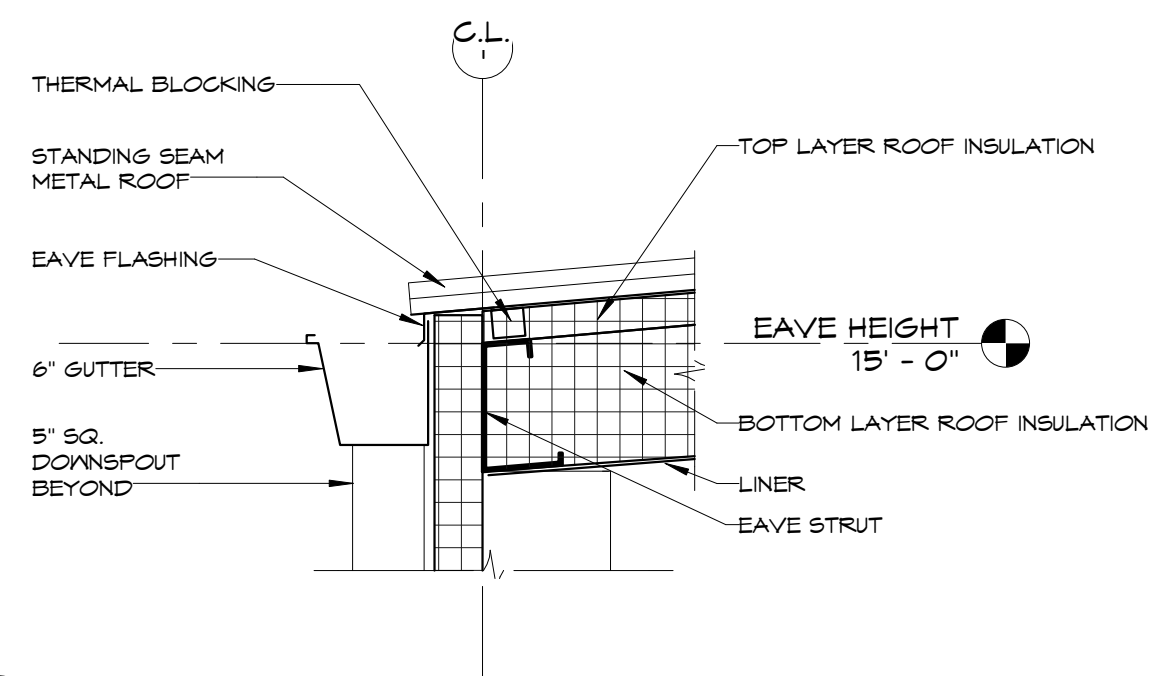
Sheet Title:
**REFLECTED
CEILING PLAN**

Sheet:
A103

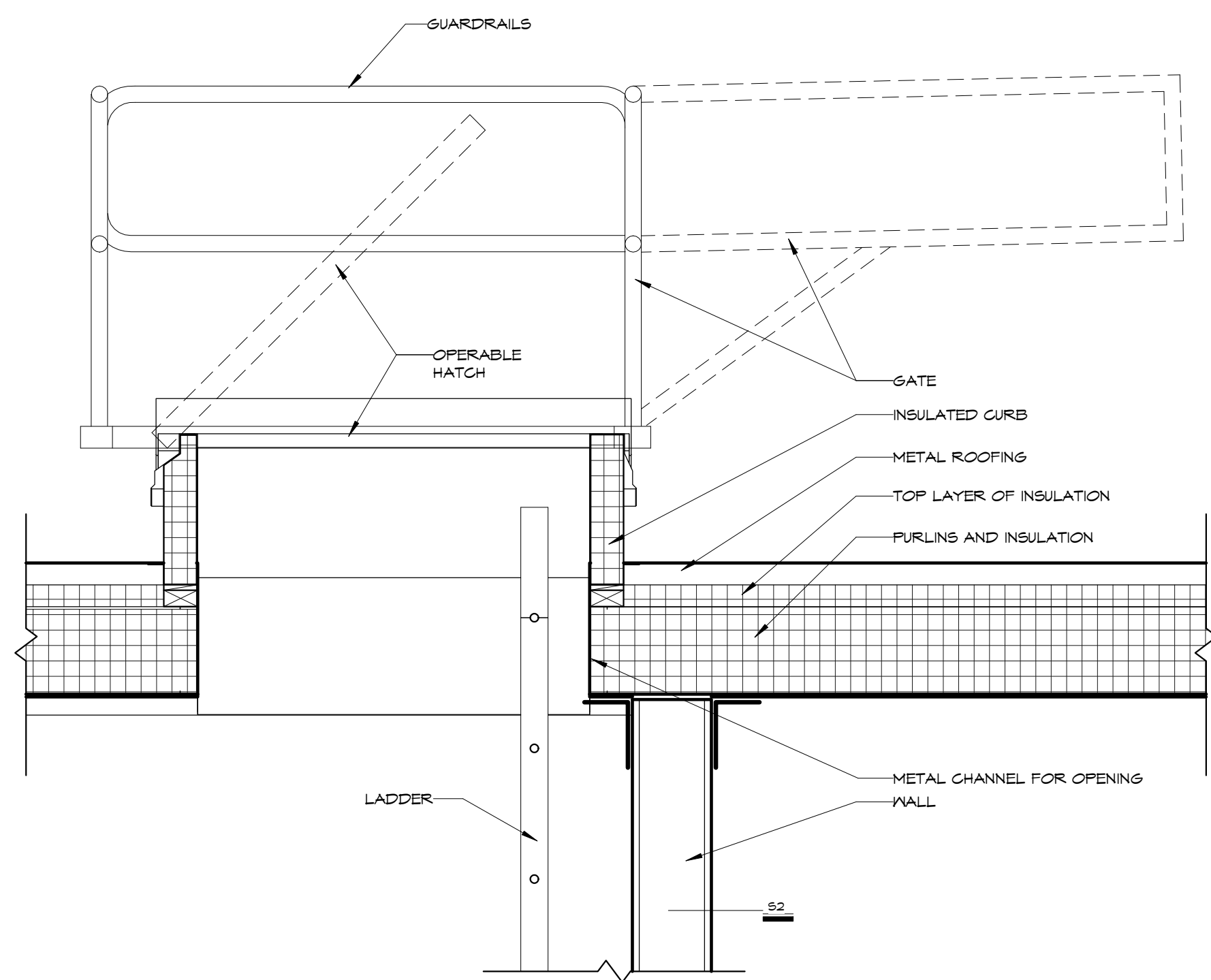
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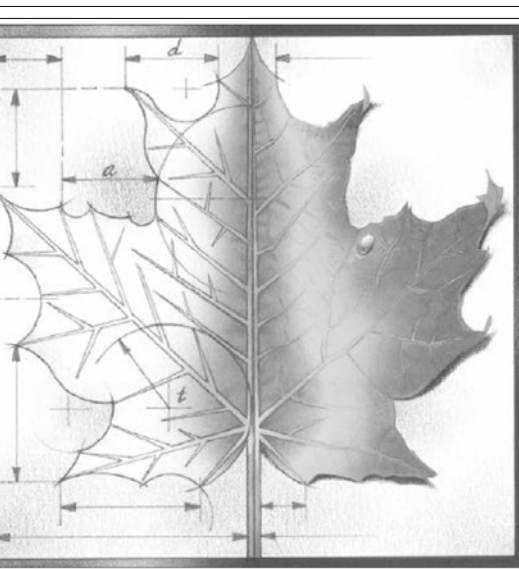
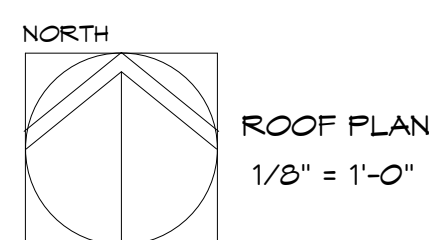
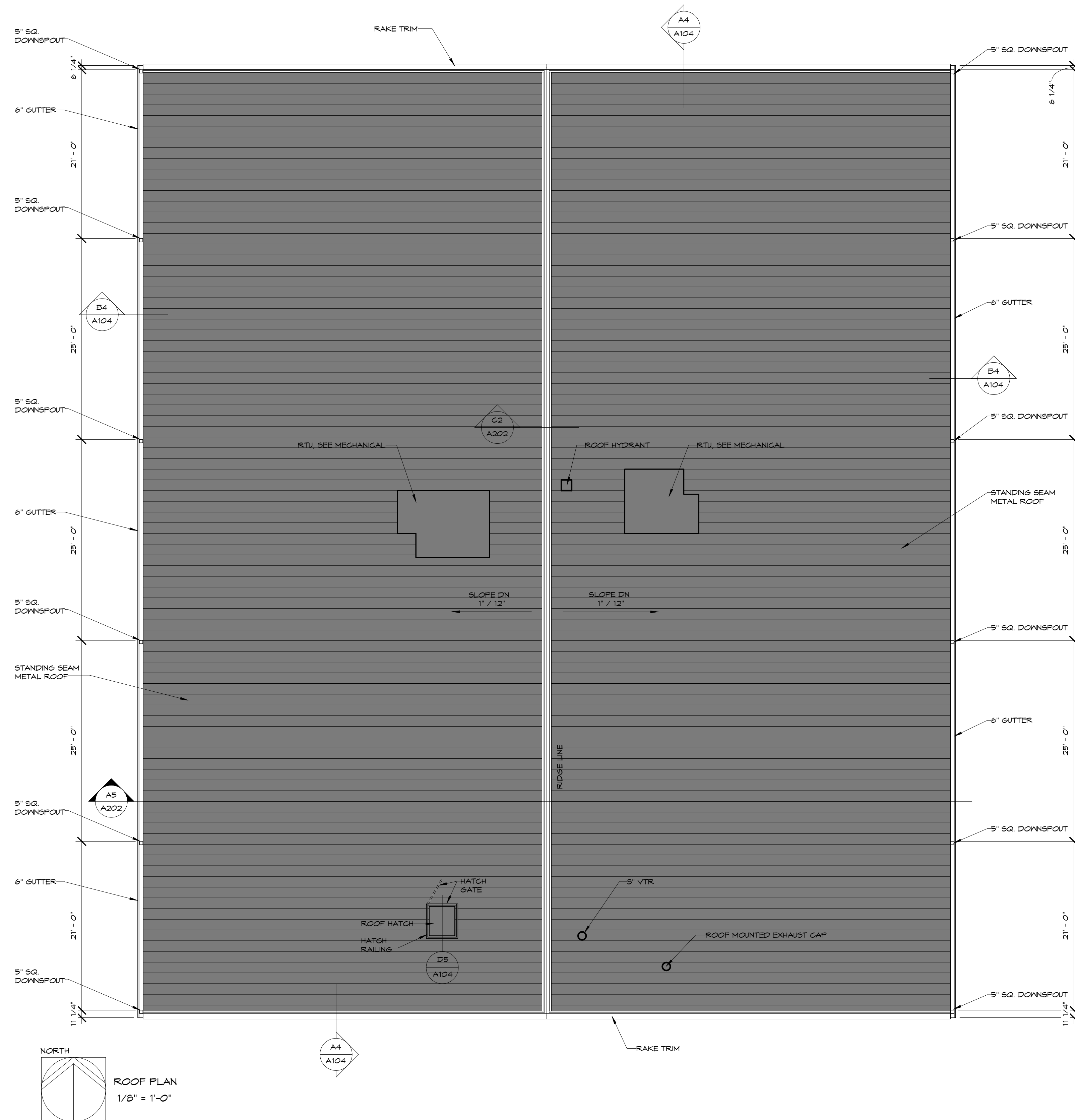
A4 ROOF DETAIL 1" = 1'-0"



B4 ROOF DETAIL 1" = 1'-0"



D5 ROOF HATCH DETAIL 1" = 1'-0"



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REV	DESCRIPTION	DATE



Project Number: **17036**

Date: **9/11/17**

Project Name: **USD 320 MULTIPURPOSE BUILDING**

Project Address: **WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547**

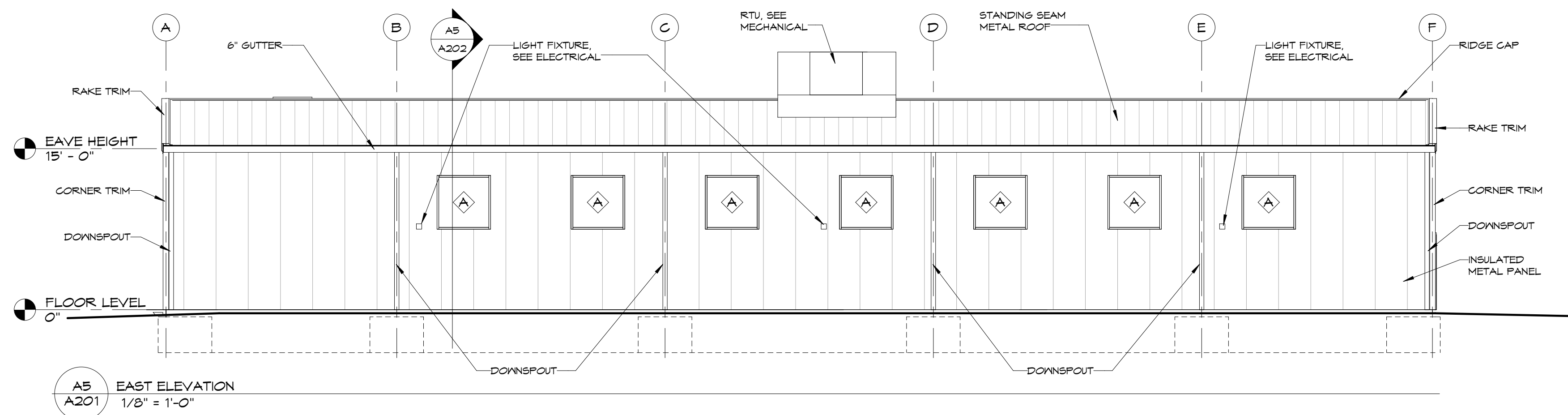
Sheet Title:

ROOF PLAN

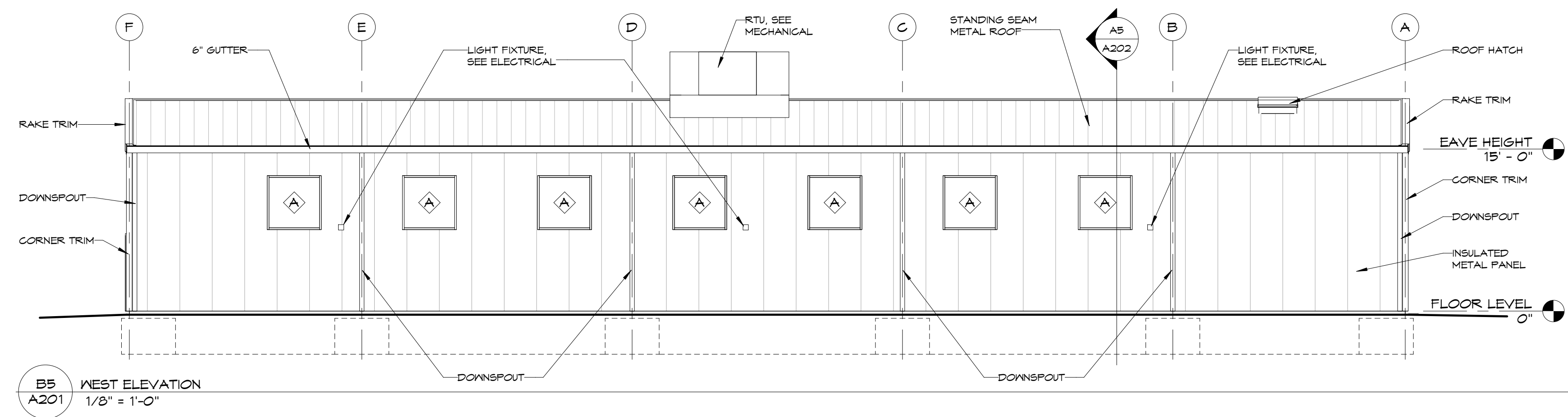
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A104

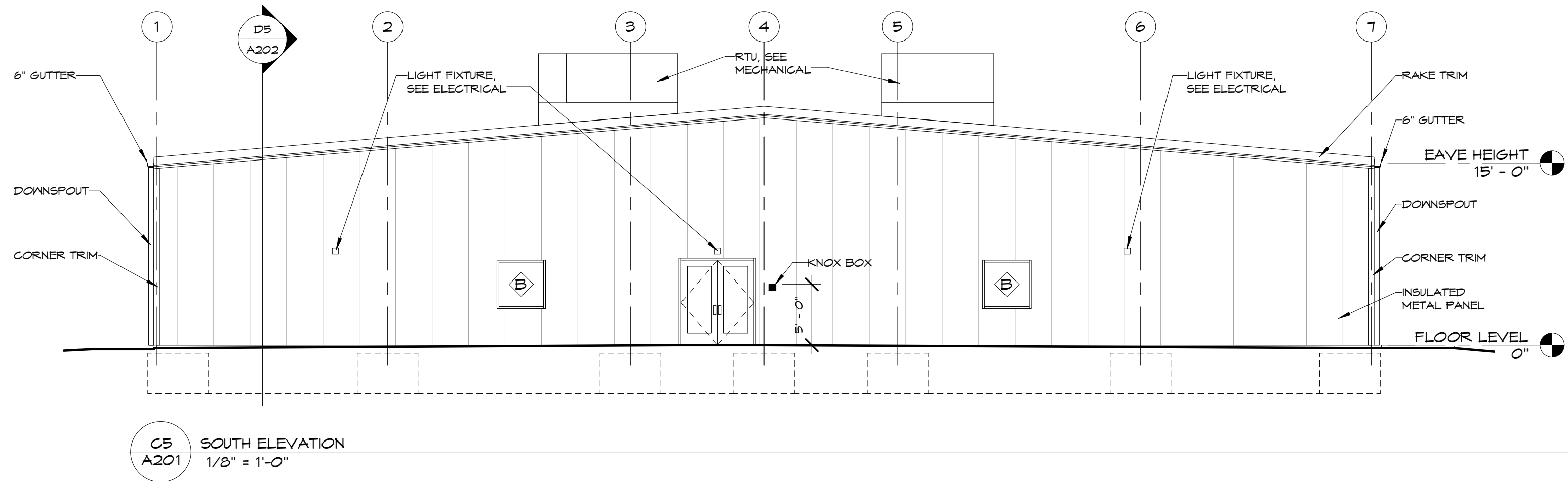
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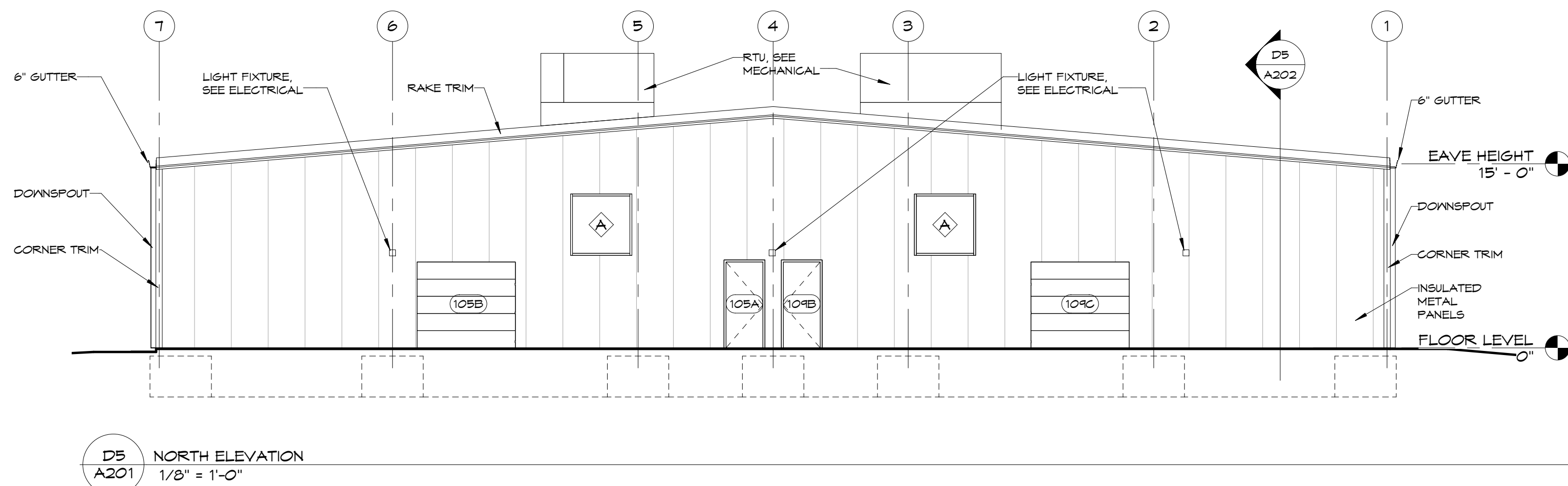
A5 EAST ELEVATION
A201 1/8" = 1'-0"



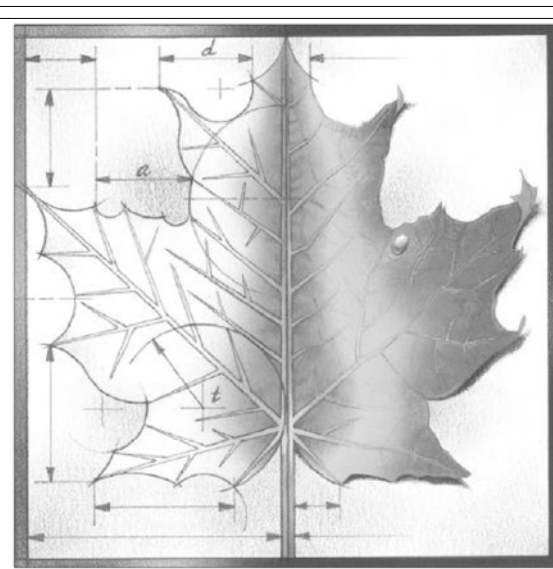
B5 WEST ELEVATION
A201 1/8" = 1'-0"



C5 SOUTH ELEVATION
A201 1/8" = 1'-0"



D5 NORTH ELEVATION
A201 1/8" = 1'-0"



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Date: 9/1/17

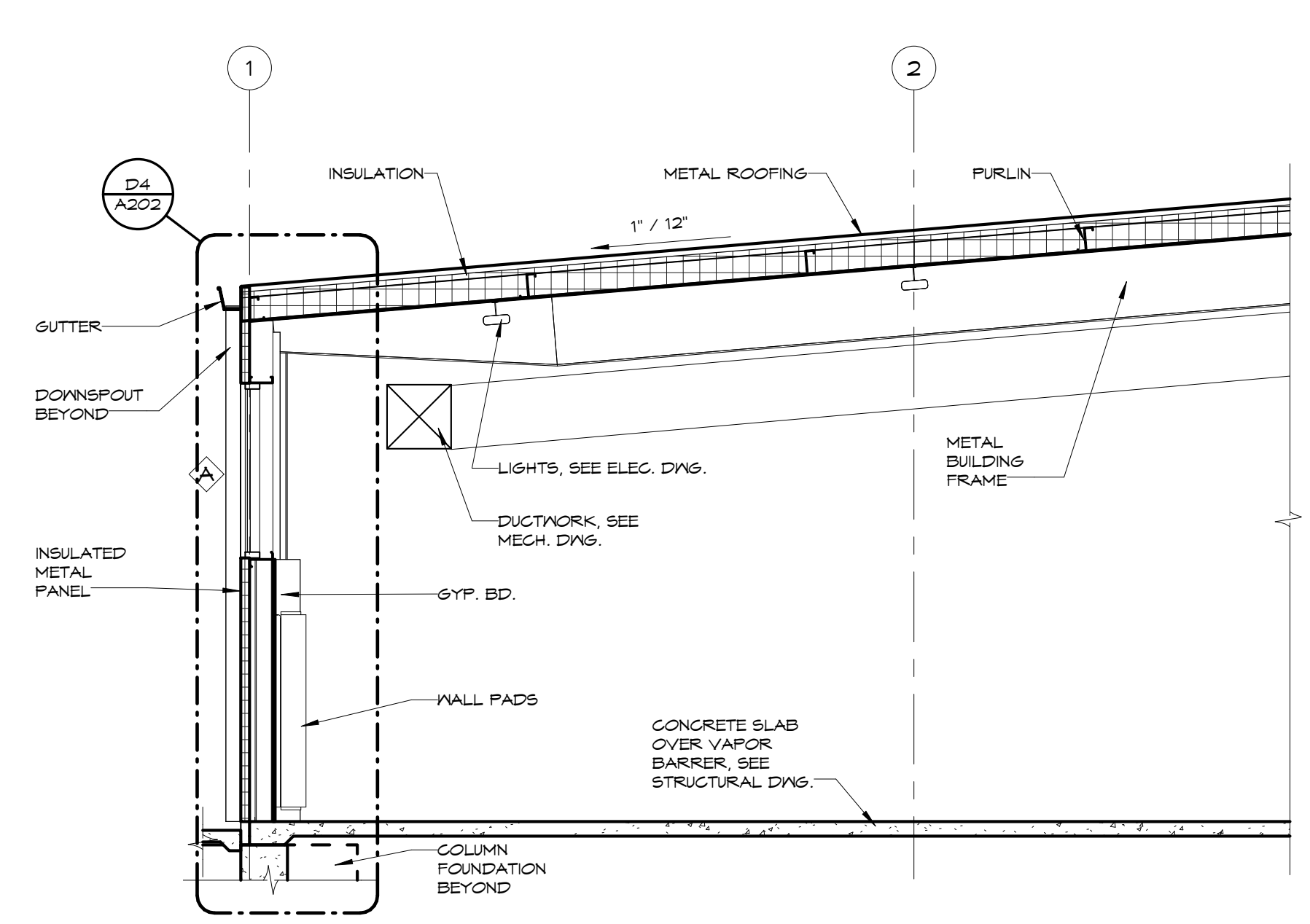
Project Name: USD 320 MULTIPURPOSE BUILDING

Project Address: WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547

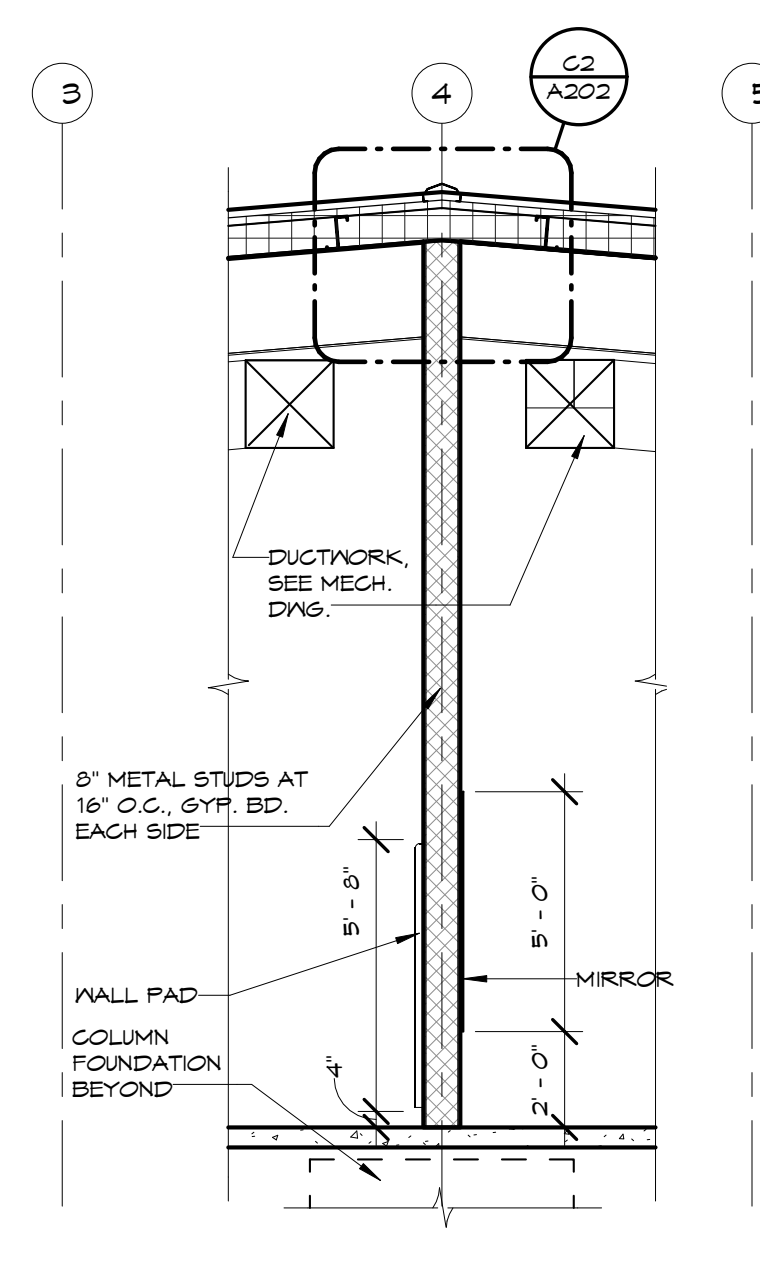
Sheet Title: EXTERIOR ELEVATIONS

Sheet: A201

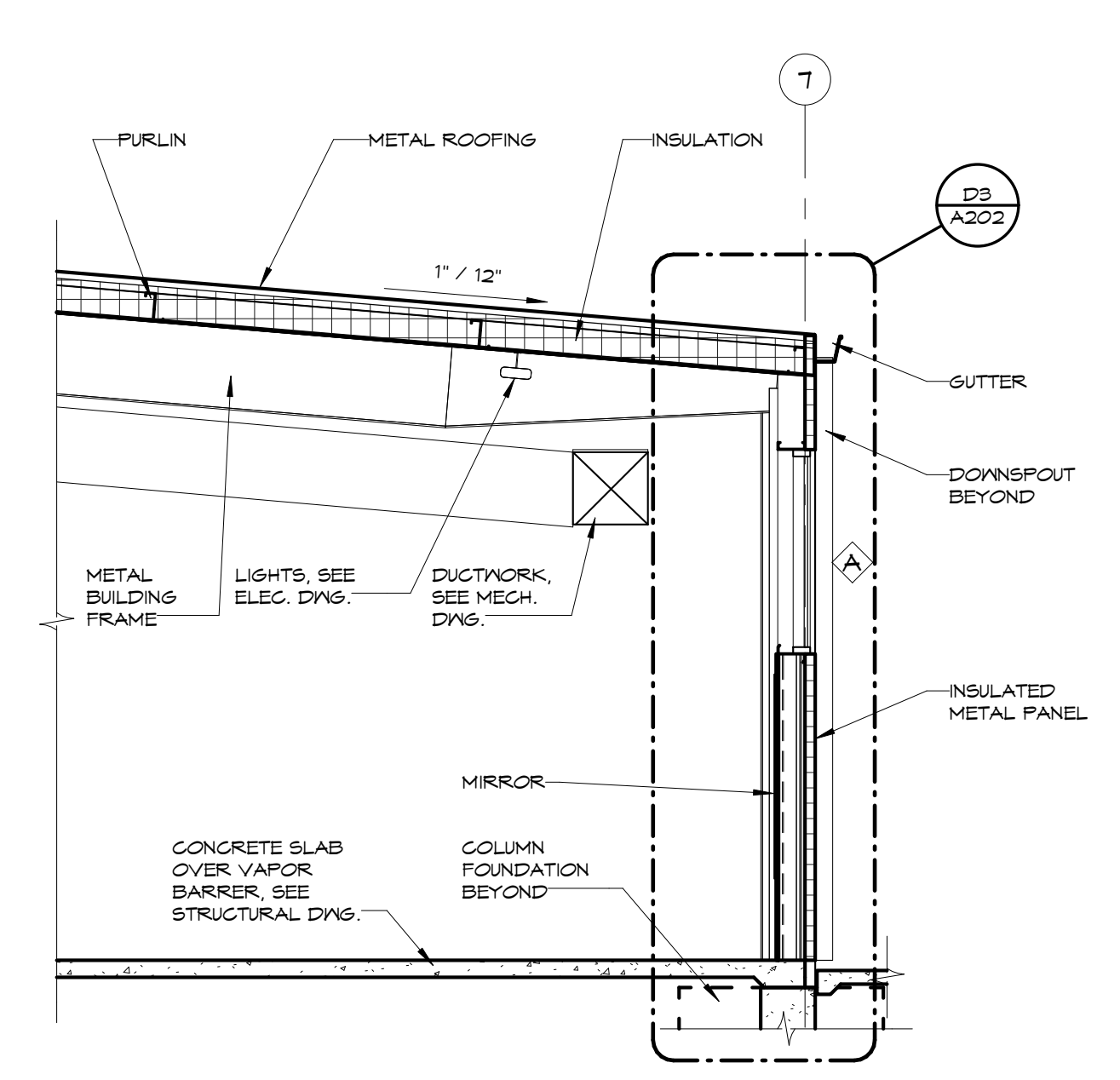
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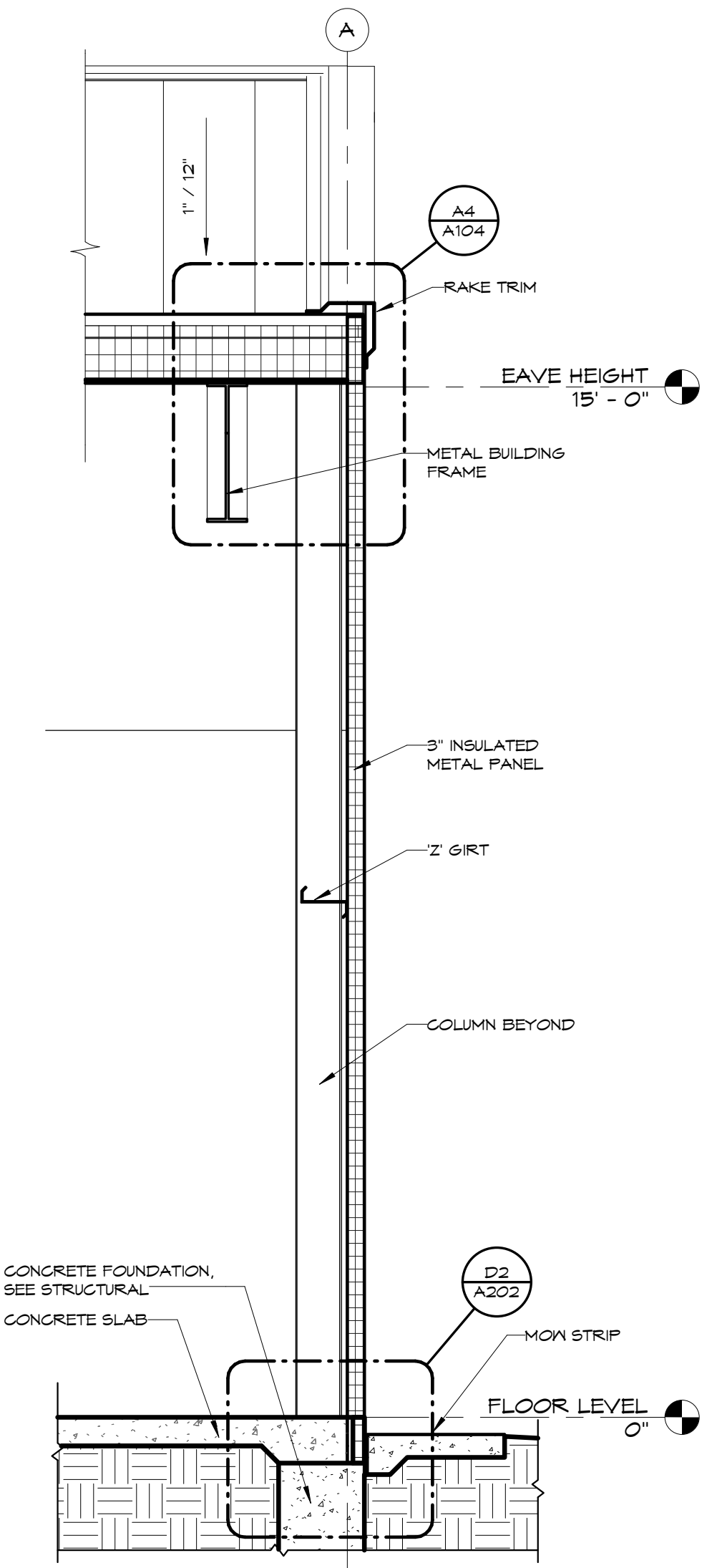
A5 BUILDING SECTION
1/4" = 1'-0"



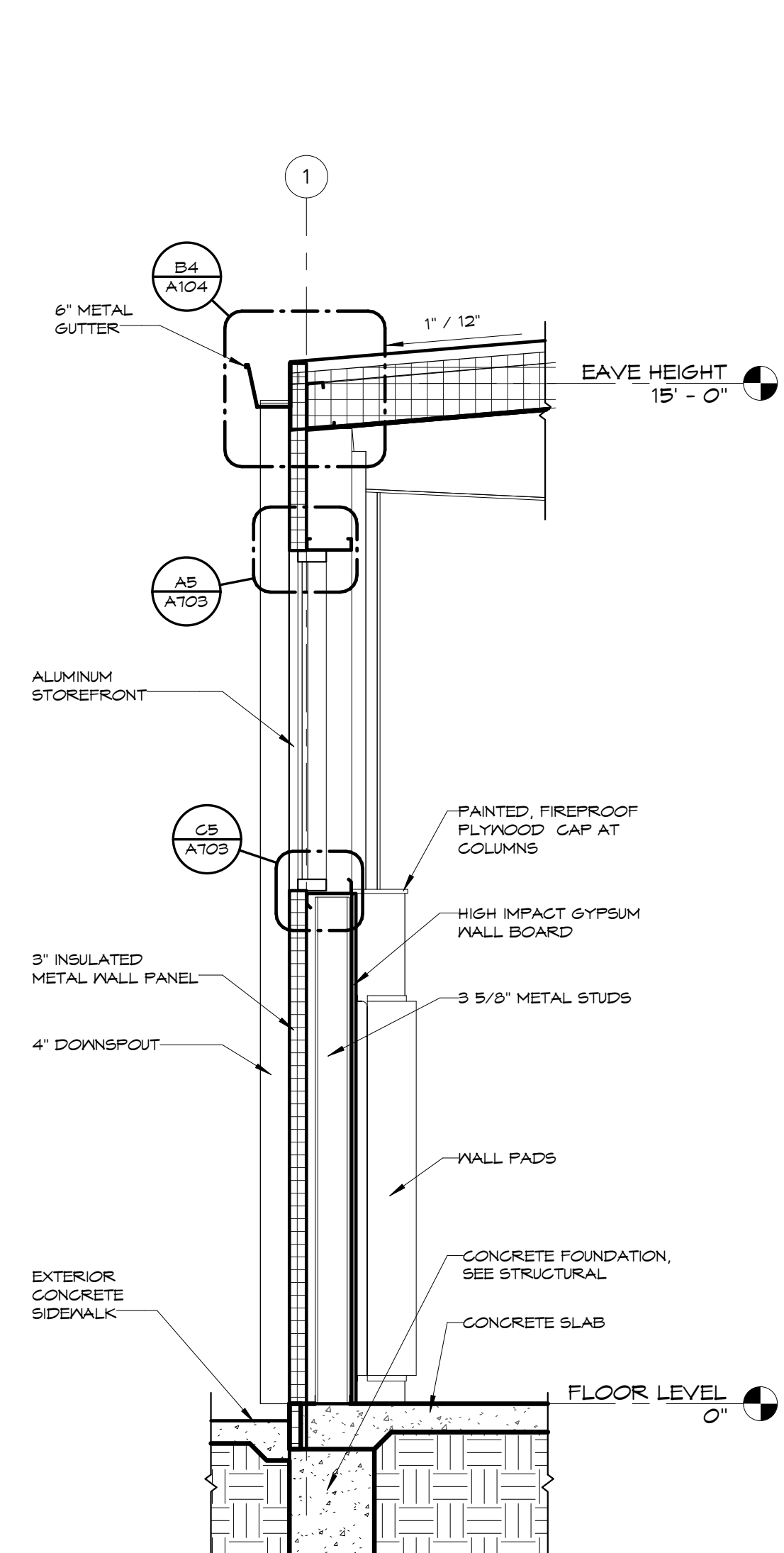
D3 WALL SECTION
1/2" = 1'-0"



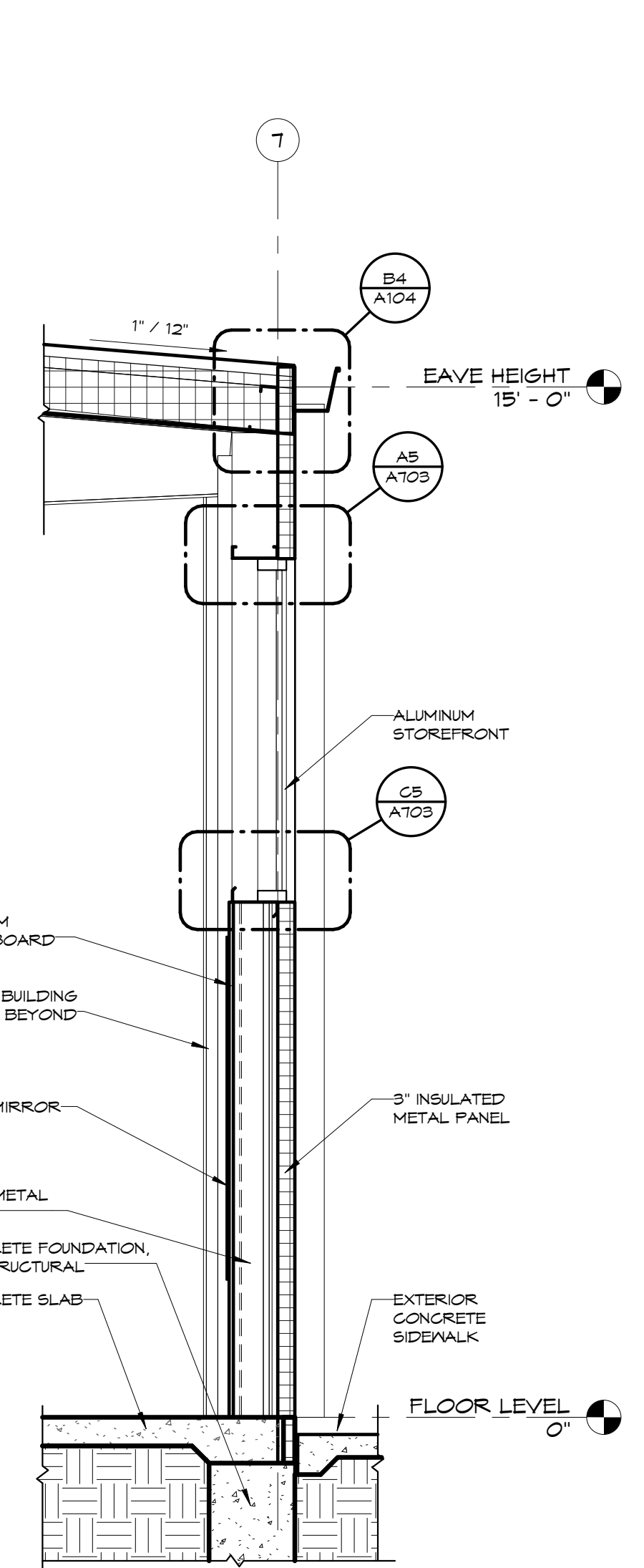
D2 DETAIL @ TYPICAL FOUNDATION
1 1/2" = 1'-0"



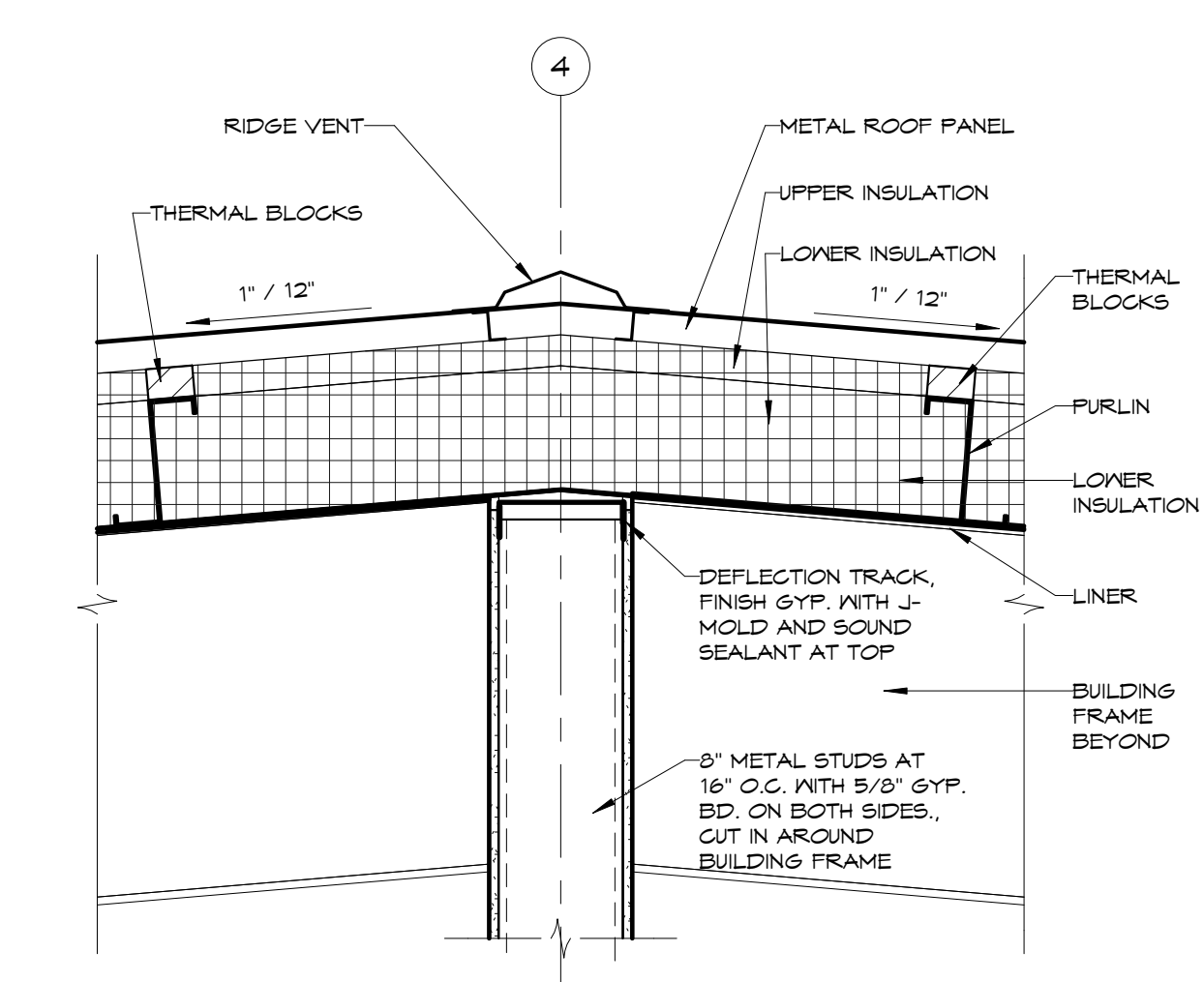
D5 WALL SECTION
1/2" = 1'-0"



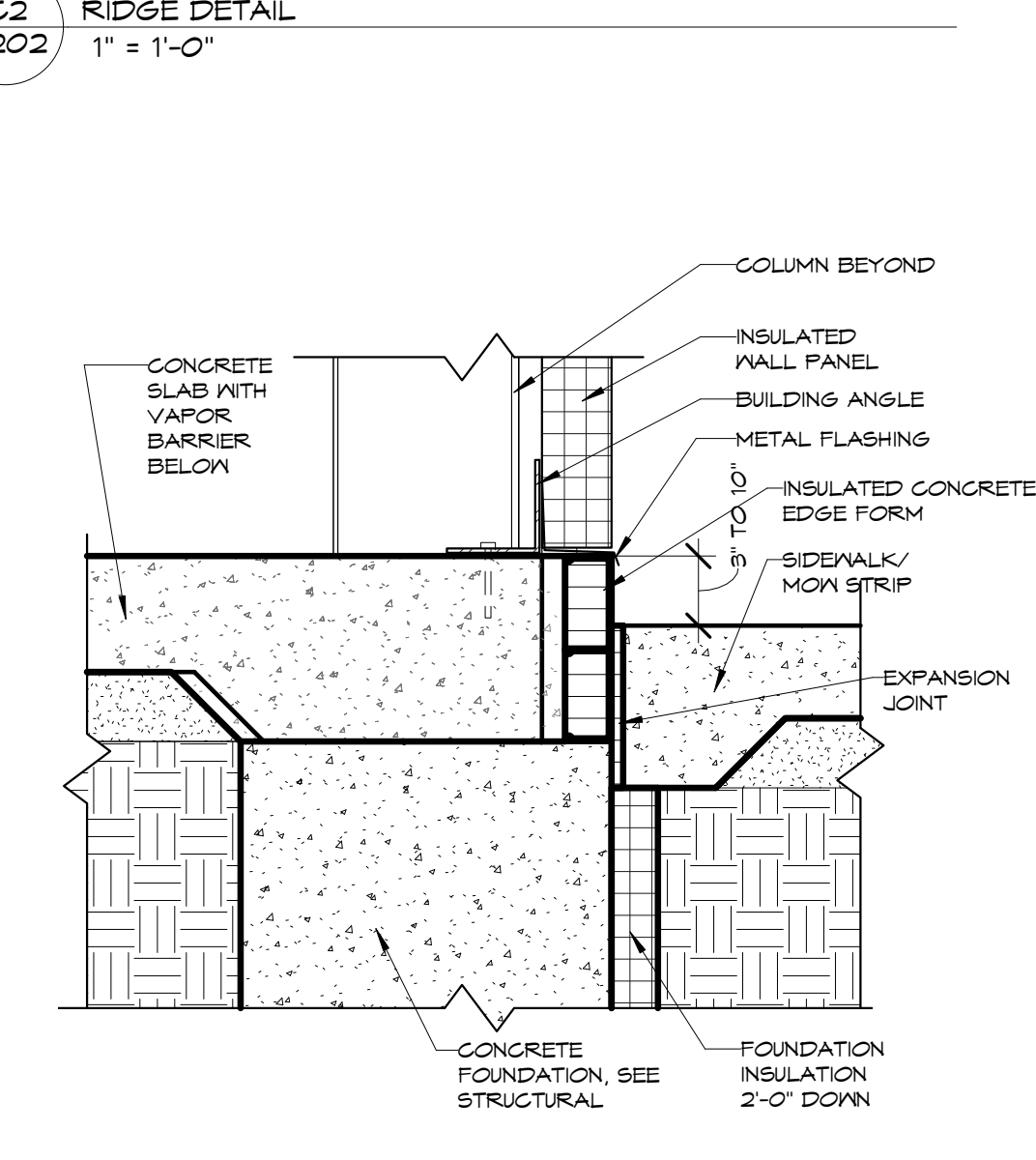
D4 WALL SECTION
1/2" = 1'-0"



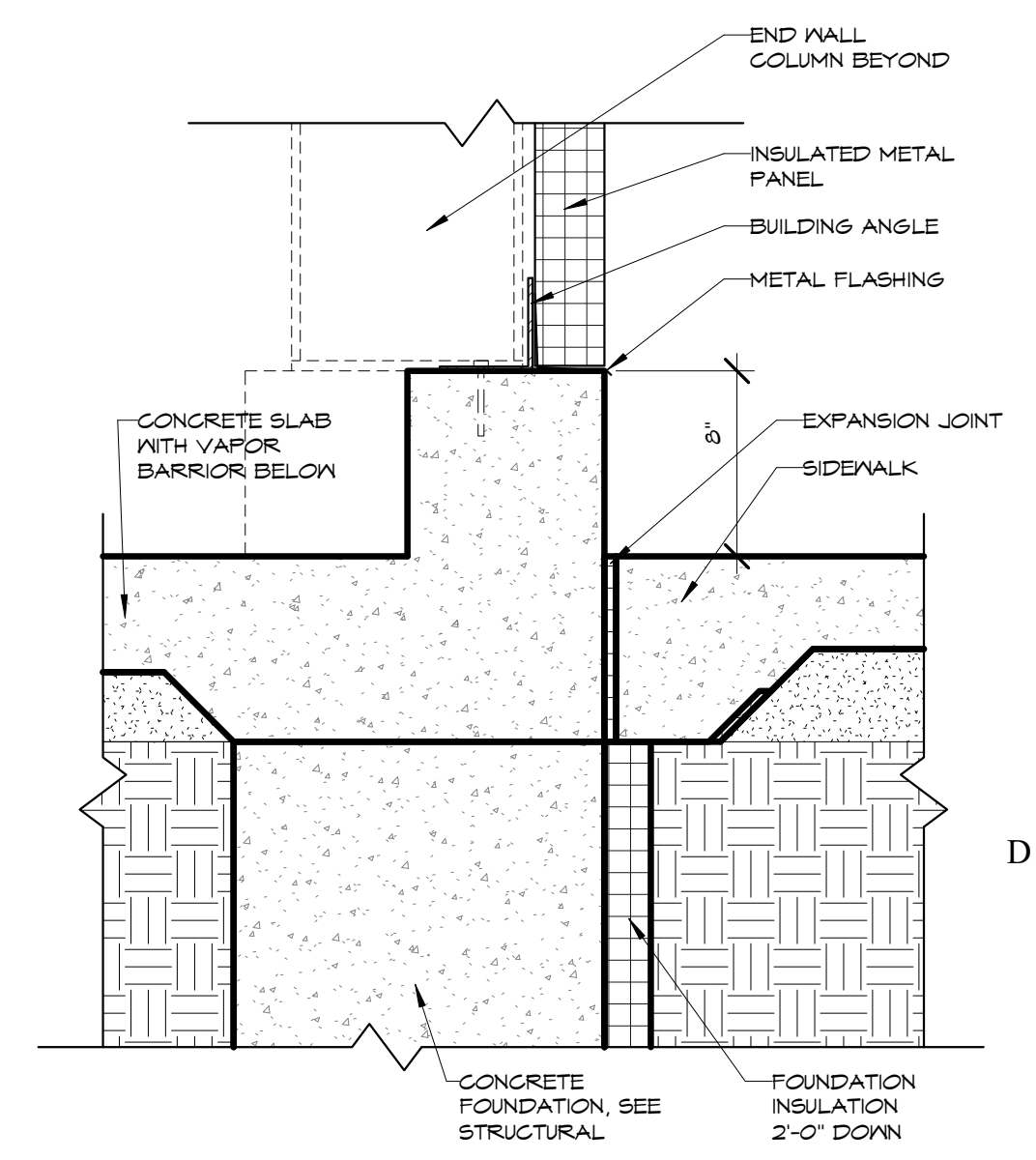
D3 WALL SECTION
1/2" = 1'-0"



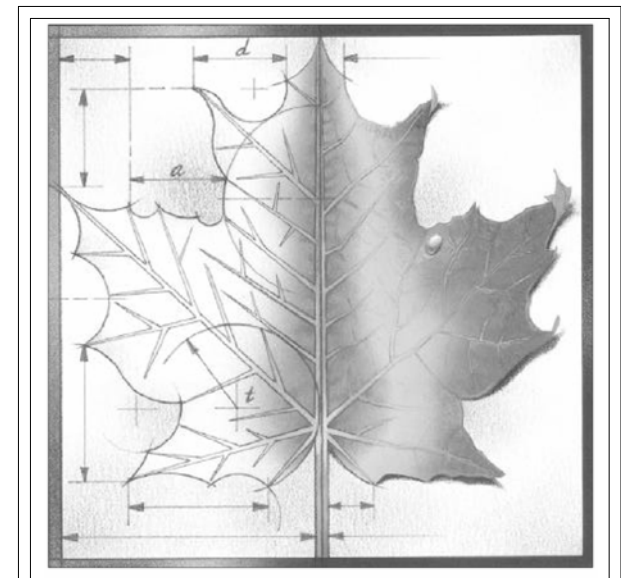
C2 RIDGE DETAIL
1" = 1'-0"



D2 DETAIL @ TYPICAL FOUNDATION
1 1/2" = 1'-0"



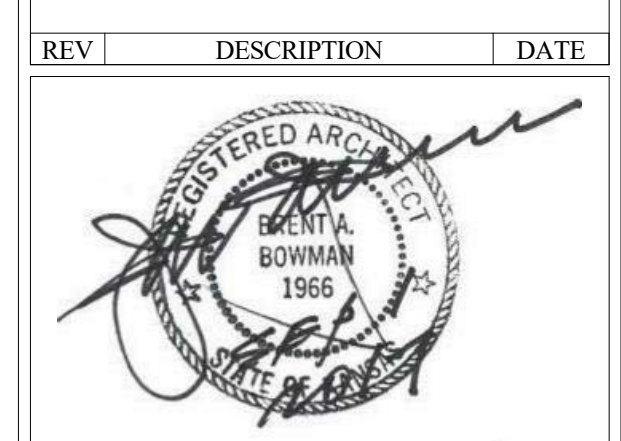
D1 DETAIL @ NORTH FOUNDATION
1 1/2" = 1'-0"



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REV	DESCRIPTION	DATE

Project Number: 17036
Date: 9/1/17
Project Name: USD 320 MULTIPURPOSE BUILDING
Project Address: WAMEGO HIGH SCHOOL, 801 LINCOLN, WAMEGO, KS 66547

Sheet Title: BUILDING SECTIONS

Sheet: A202
OF:

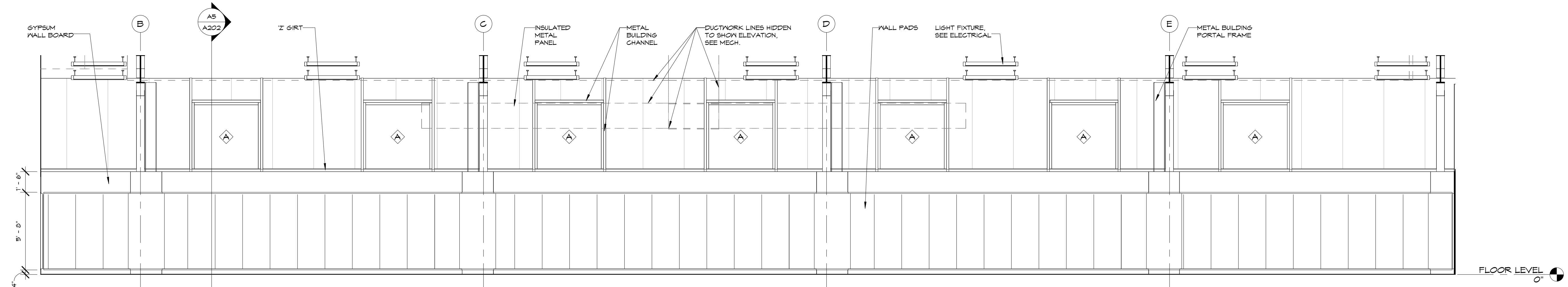
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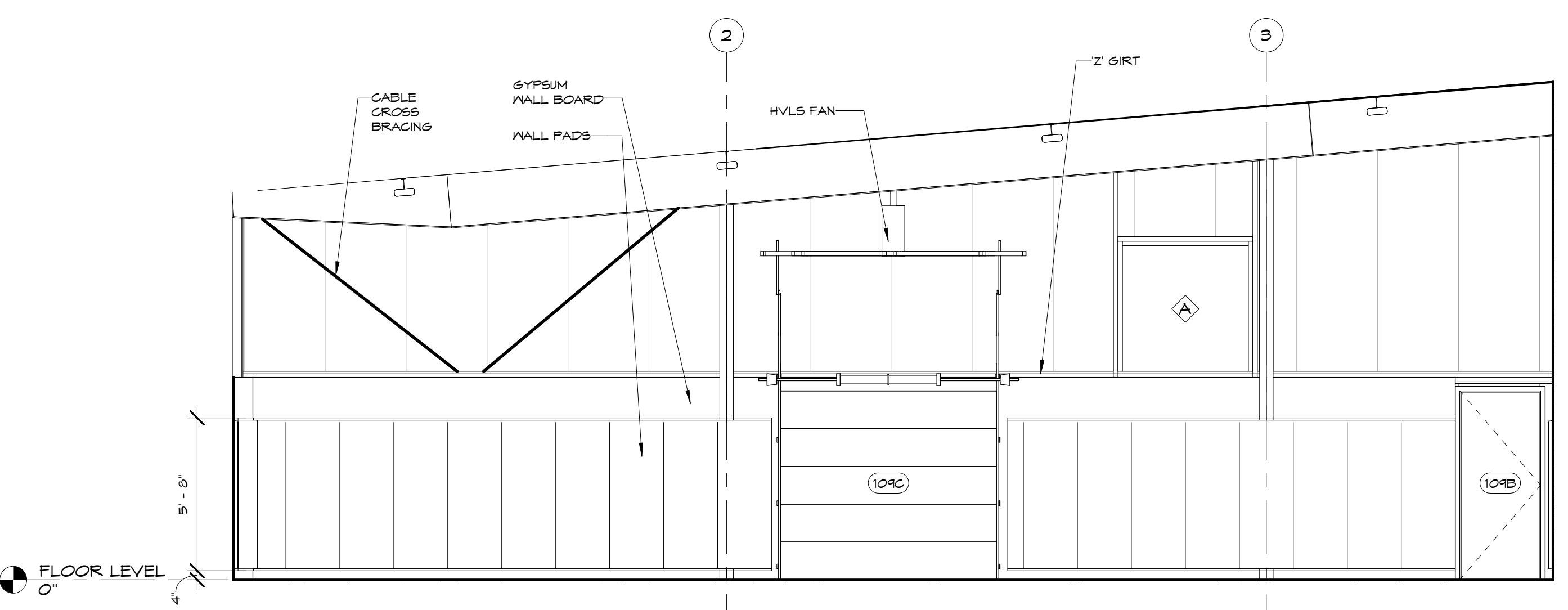
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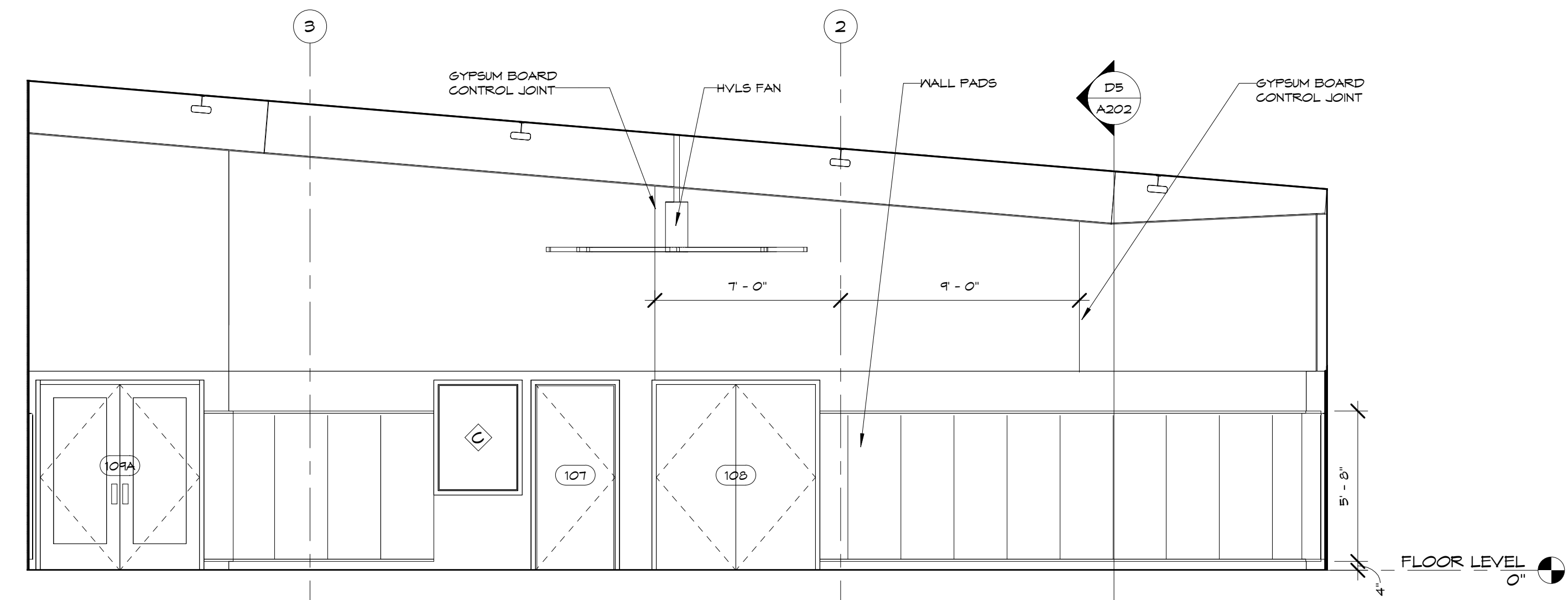
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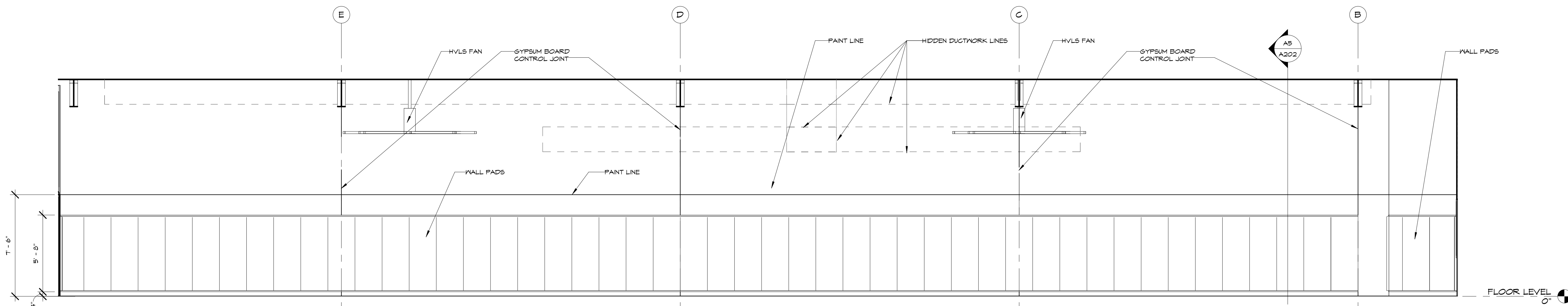
A5
A203 WEST ELEVATION @ WRESTLING 109
1/4" = 1'-0"



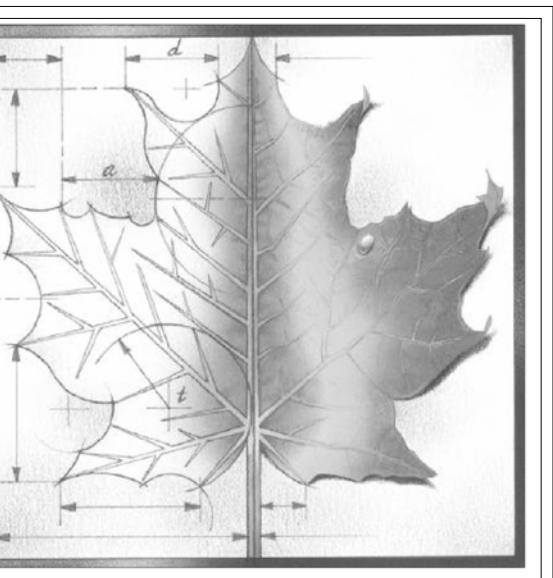
B5
A203 NORTH ELEVATION @ WRESTLING 109
1/4" = 1'-0"



B3
A203 SOUTH ELEVATION @ WRESTLING 109
1/4" = 1'-0"



D5
A203 EAST ELEVATION @ WRESTLING 109
1/4" = 1'-0"



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REV	DESCRIPTION	DATE



Project Number: 17036

Date: 9/1/17

Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:
**INTERIOR
ELEVATIONS**

Sheet:
A203

OF:

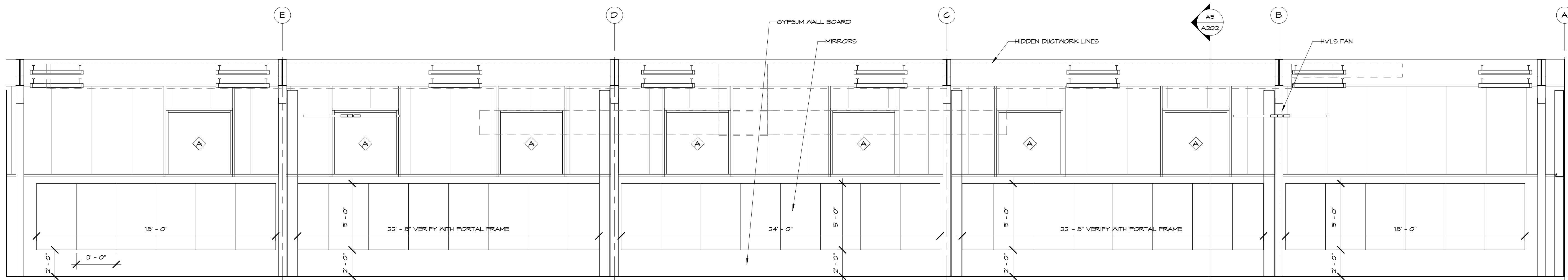
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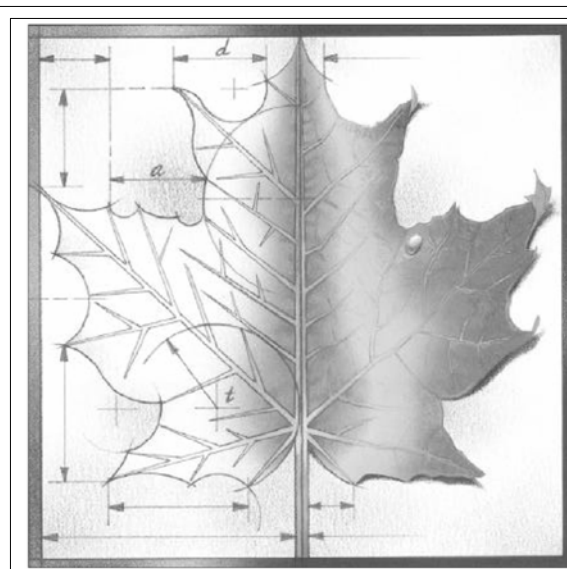
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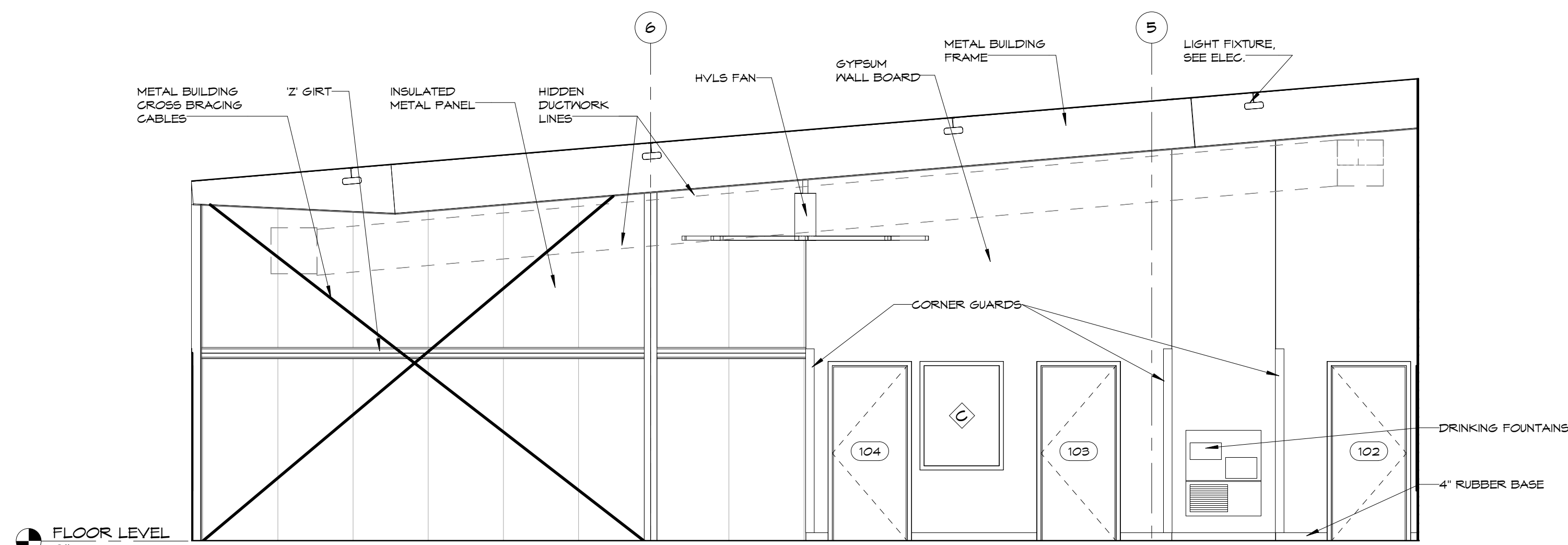
A5 EAST ELEVATION @ WEIGHTS 105
A204 1/4" = 1'-0"



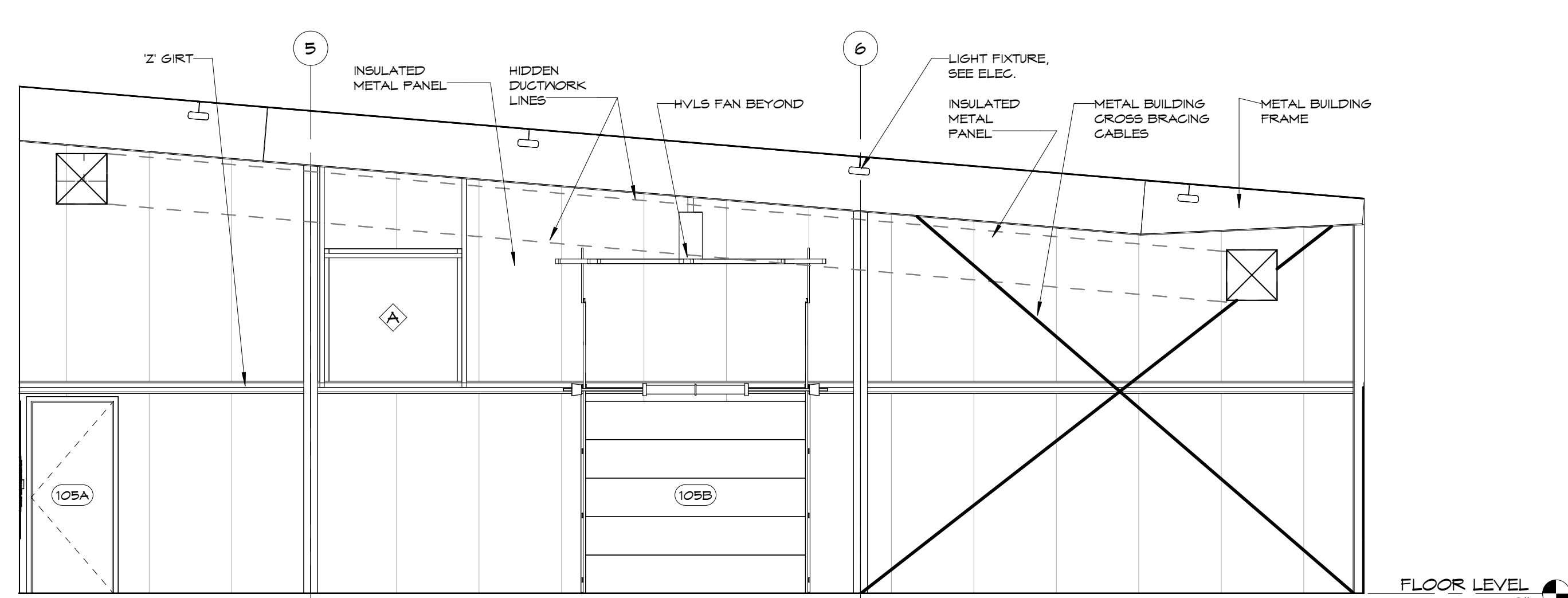
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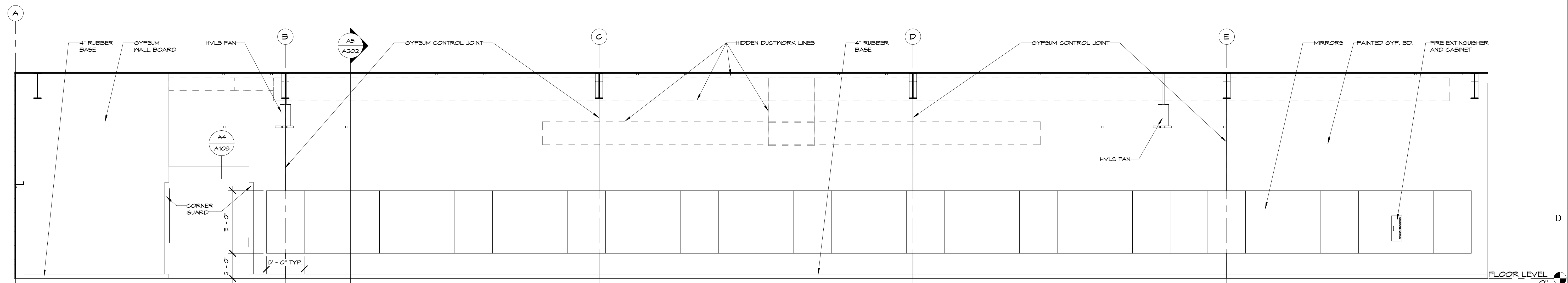
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C5 SOUTH ELEVATION @ WEIGHTS 105
A204 1/4" = 1'-0"



C3 NORTH ELEVATION @ WEIGHTS 105
A204 1/4" = 1'-0"



D5 WEST ELEVATION @ WEIGHTS 105
A204 1/4" = 1'-0"

REV	DESCRIPTION	DATE



Project Number: 17036

Date: 9/1/17

Project Name: **USD 320 MULTIPURPOSE BUILDING**

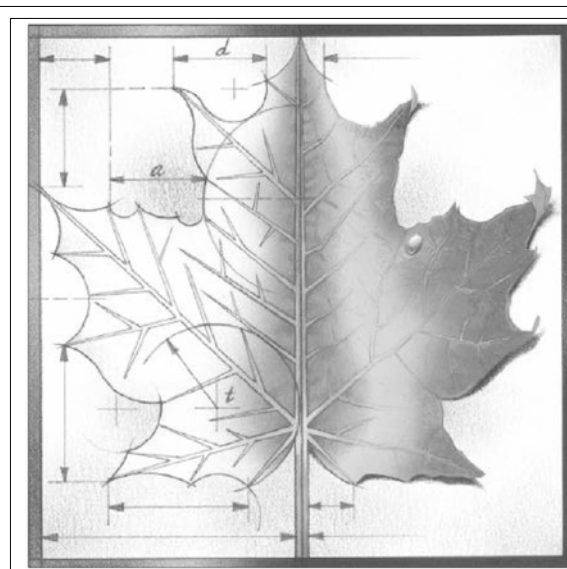
Project Address: **WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547**

Sheet Title: **INTERIOR ELEVATIONS**

Sheet: **A204**

OF:

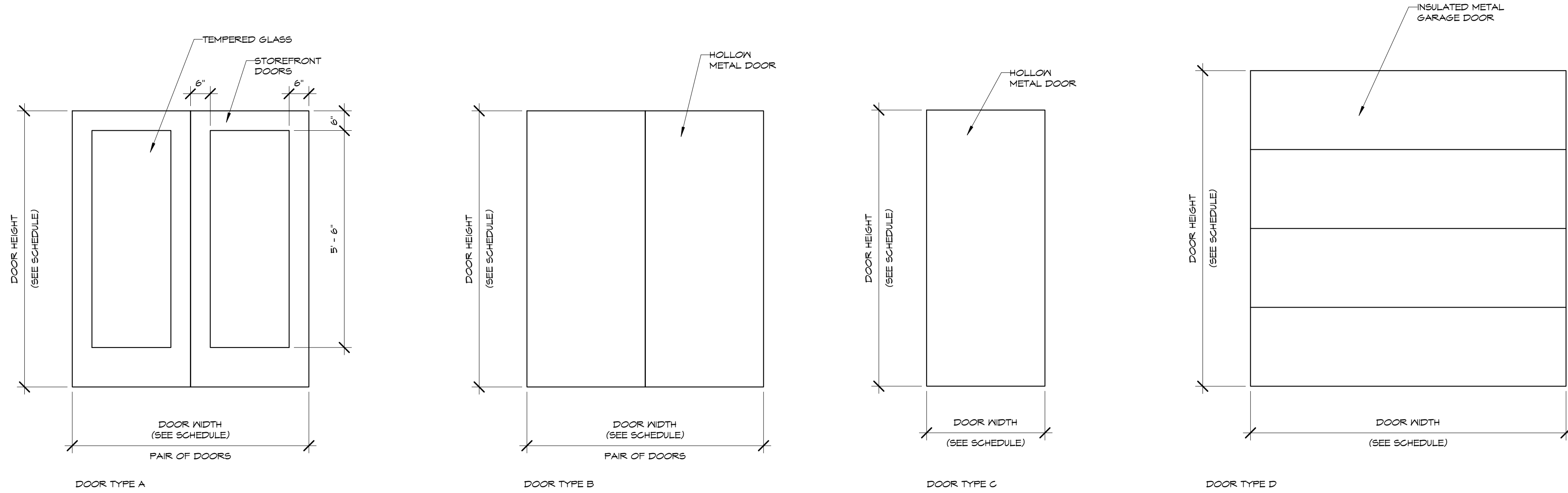
DOOR & FRAME SCHEDULE										
DOOR	DOOR SIZE		TYPE		FIRE RATING	DETAILS			HARDWARE SET	COMMENTS
	WIDTH	HEIGHT	DOOR	FRAME		HEAD	JAMB	SILL		
101	6' - 0"	T - 0"	A	3	---	A2/A102	B2/A102	D4/A102	1	
102	3' - 0"	T - 0"	C	1	---	A5/A102	B5/A102	D5/A102	8	
103	3' - 0"	T - 0"	C	1	---	A5/A102	B5/A102	D5/A102	8	
104	3' - 0"	T - 0"	C	1	---	A5/A102	B5/A102	D5/A102	6	
105A	3' - 0"	T - 0"	C	1	---	A4/A102	B4/A102	---	2	
105B	3' - 0"	T - 0"	D	---	---	C1/A102	D1/A102	---	3	OVERHEAD SECTIONAL DOOR
106	3' - 0"	T - 0"	C	1	---	A5/A102	B5/A102	D5/A102	7	
107	3' - 0"	T - 0"	C	1	---	A5/A102	B5/A102	D5/A102	6	
108	6' - 0"	T - 0"	B	2	---	A5/A102	B5/A102	D5/A102	5	
109A	6' - 0"	T - 0"	A	3	---	A1/A102	B1/A102	D4/A102	4	
109B	3' - 0"	T - 0"	C	1	---	A3/A102	B3/A102	---	2	
109C	3' - 0"	T - 0"	D	---	---	C1/A102	D2/A102	---	3	OVERHEAD SECTIONAL DOOR



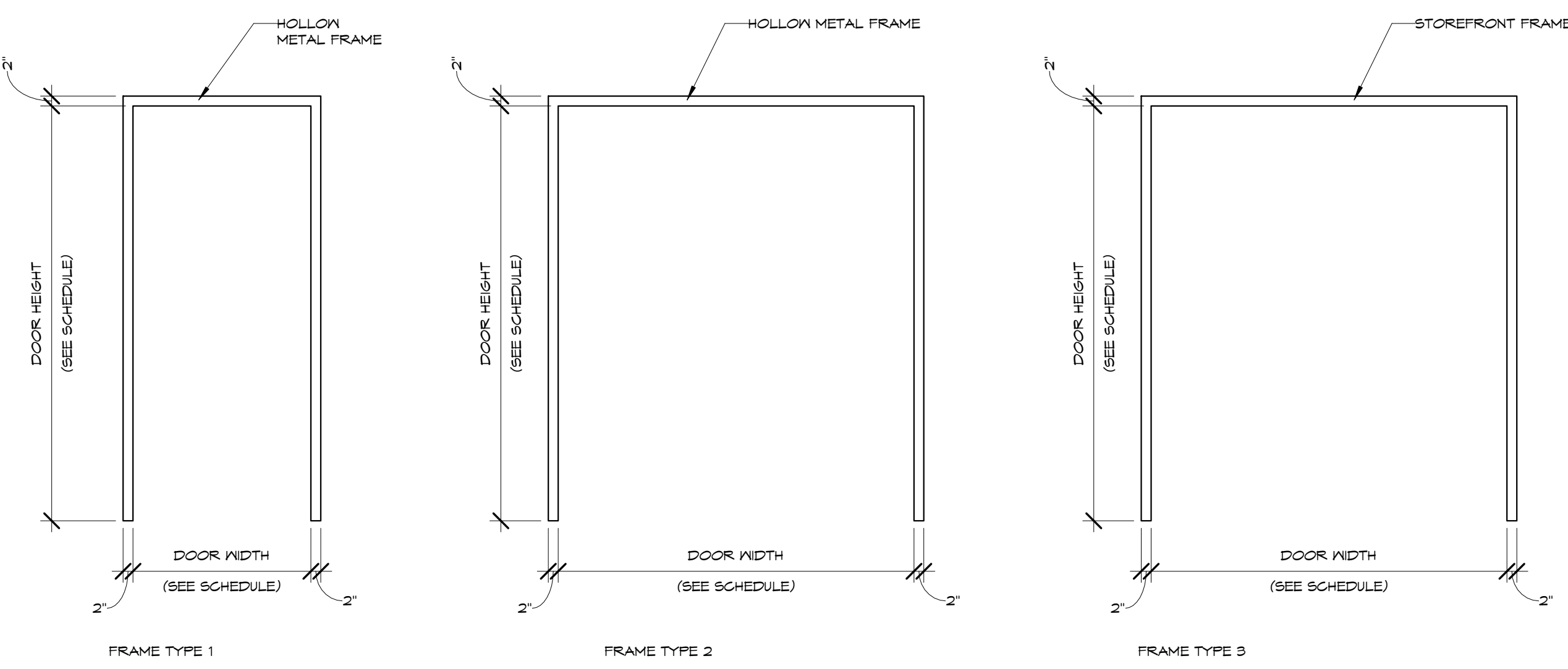
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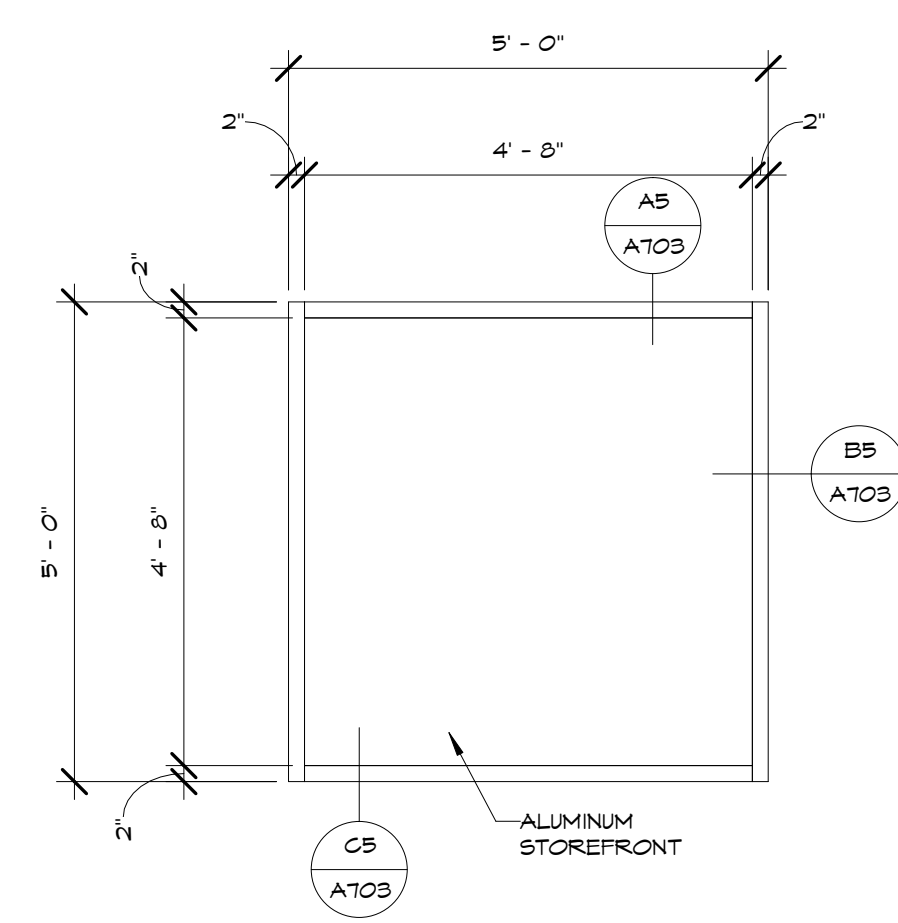
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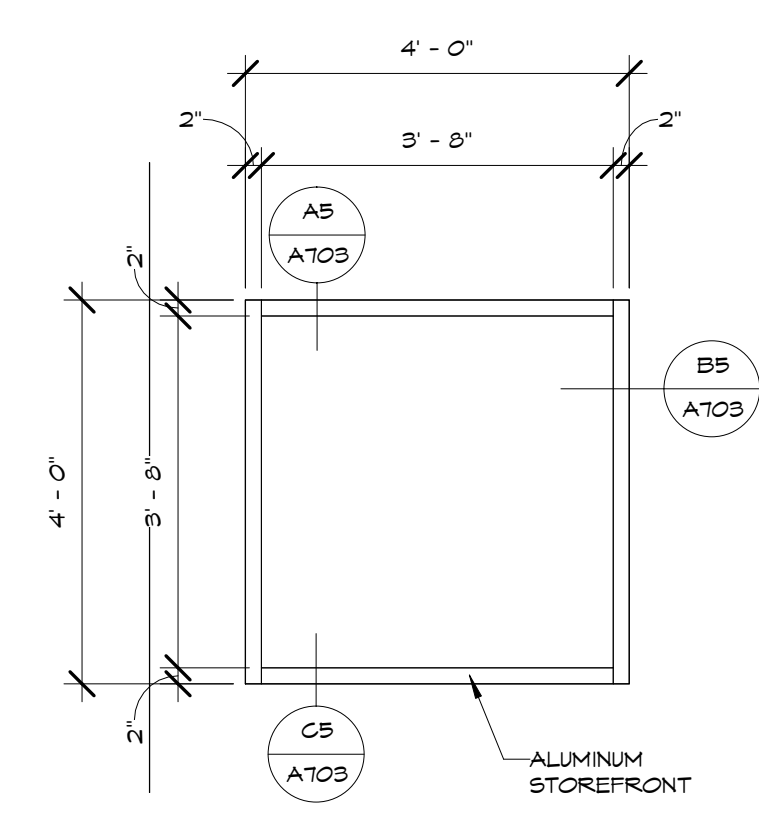
A5 DOOR TYPES
A101 1/2" = 1'-0"



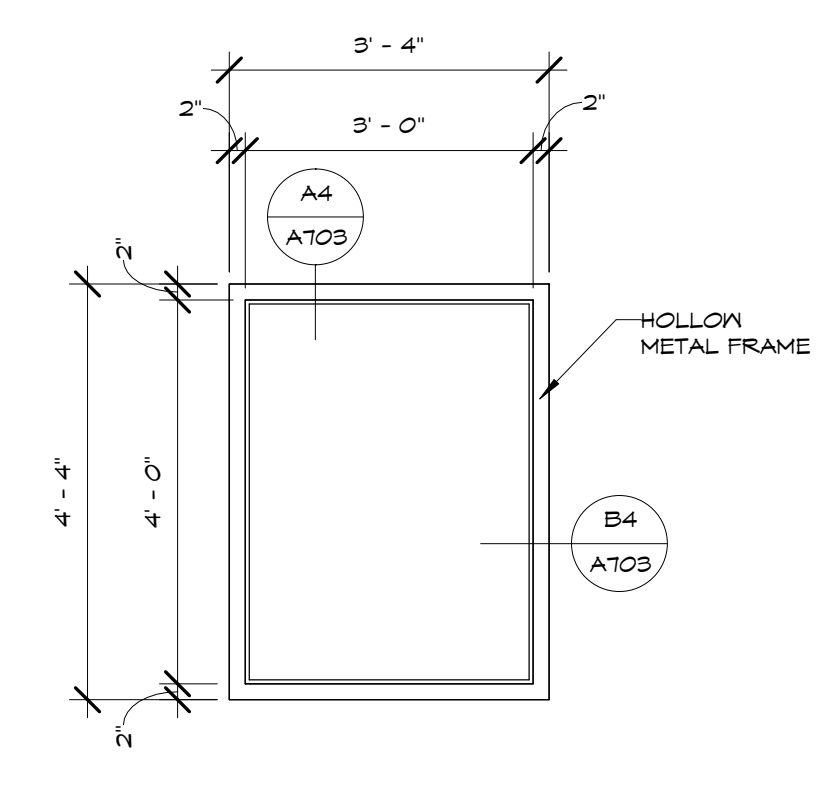
D5 FRAME TYPES
A101 1/2" = 1'-0"



D3 WINDOW TYPE A
A101 1/2" = 1'-0"



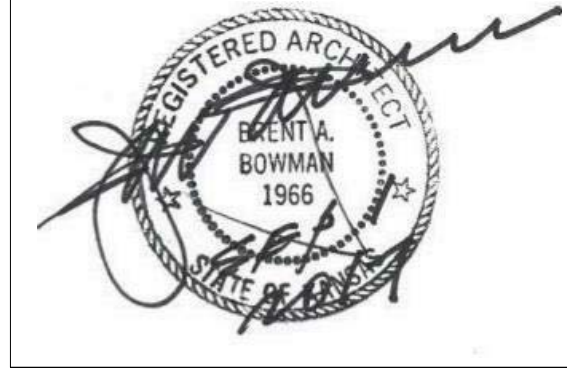
D2 WINDOW TYPE B
A101 1/2" = 1'-0"



D1 WINDOW TYPE C
A101 1/2" = 1'-0"

A
B
C

REV	DESCRIPTION	DATE
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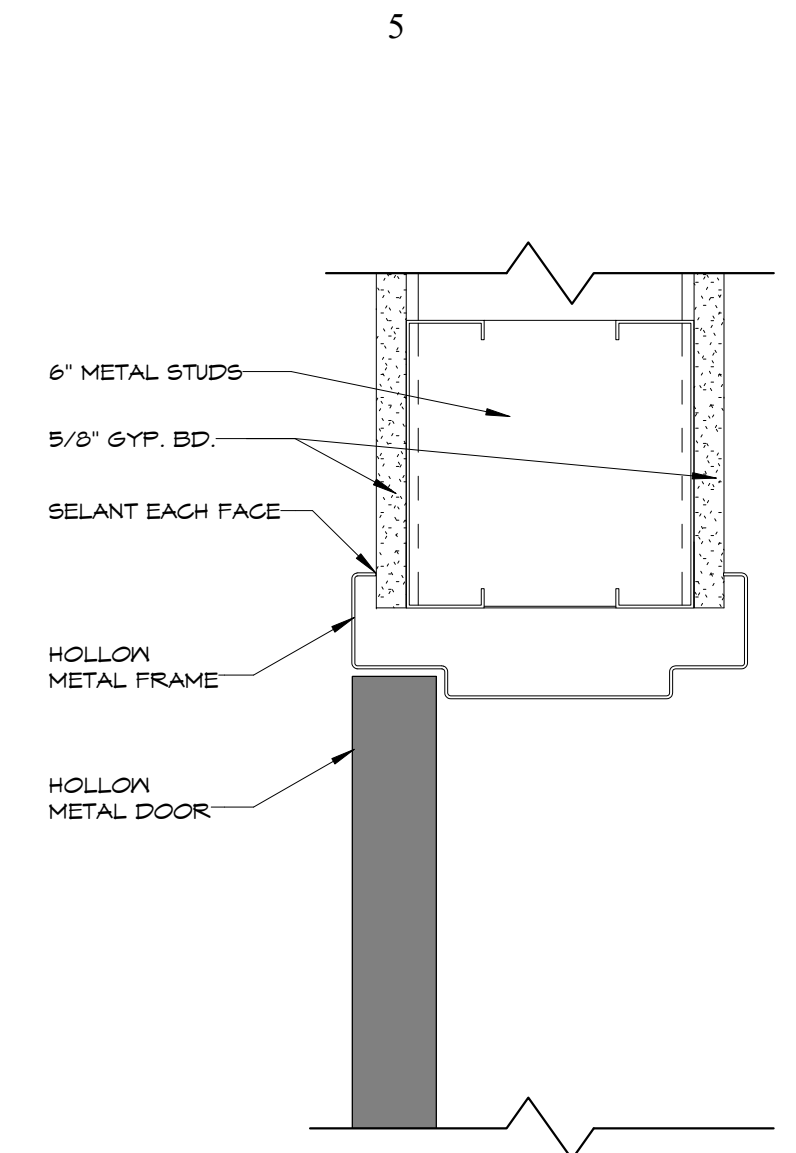


Project Number: **17036**
Date: **9/1/17**

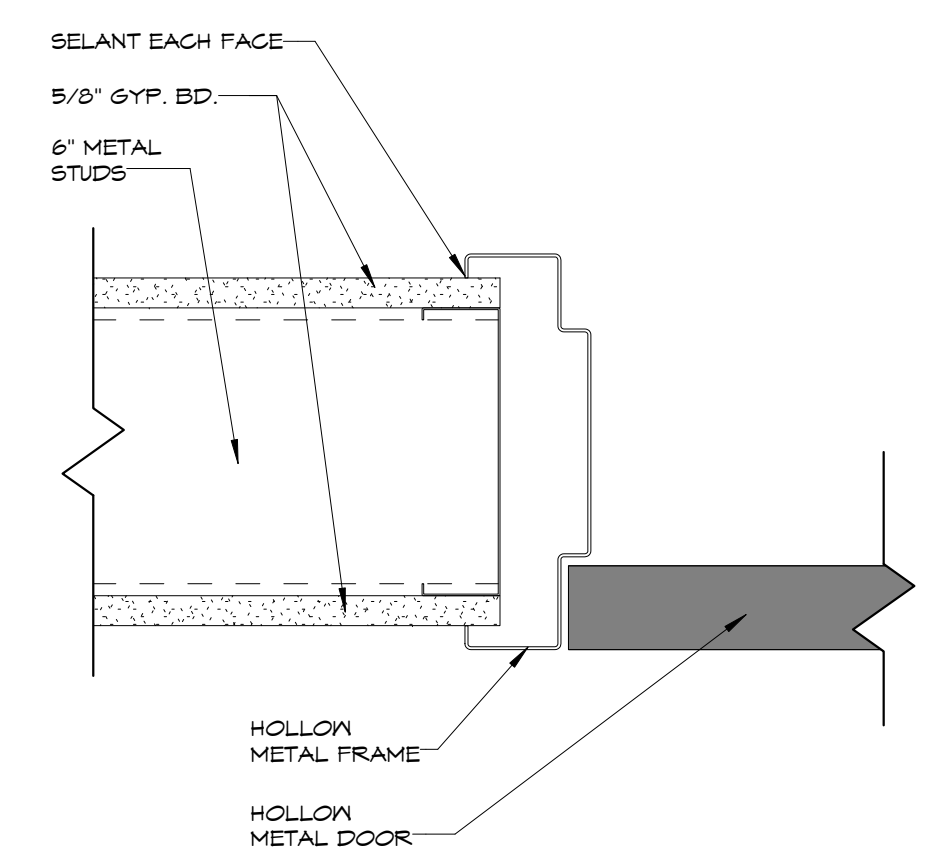
Project Name: **USD 320 MULTIPURPOSE BUILDING**
Project Address: **WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547**

Sheet Title: **DOOR AND WINDOW TYPES/ DETAILS**

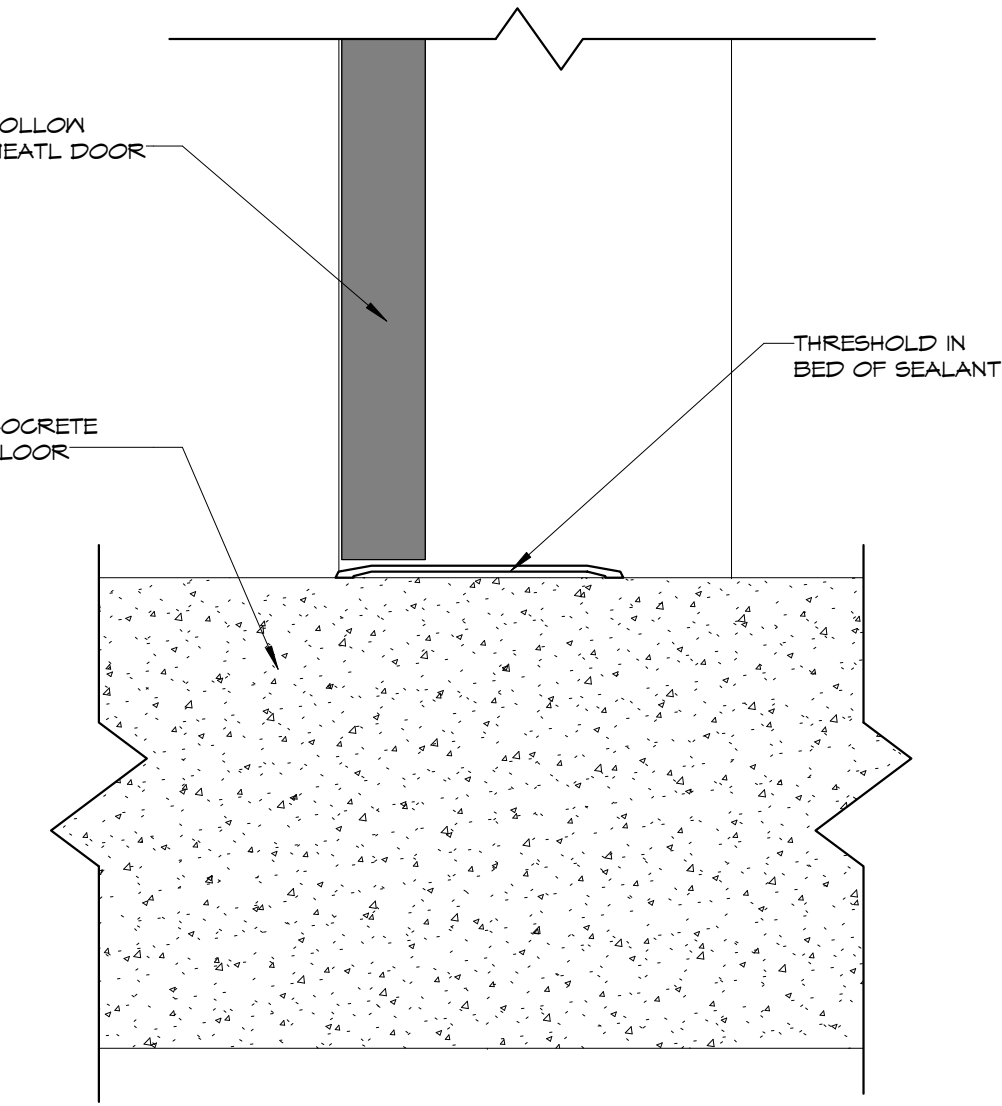
Sheet: **A701**
OF:



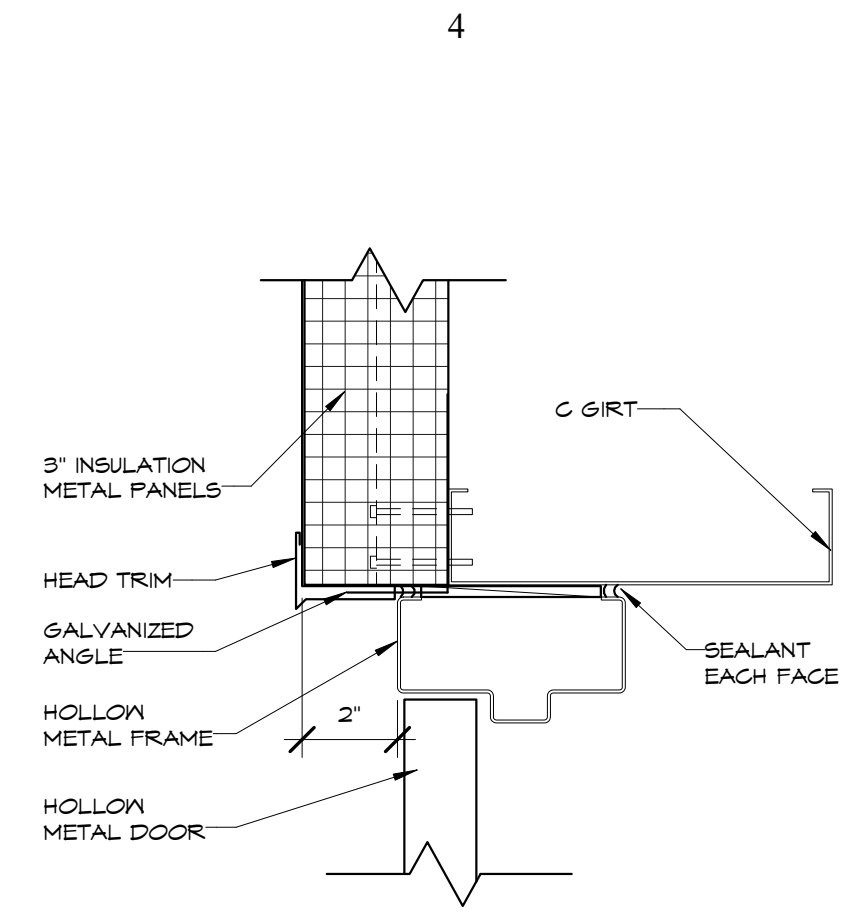
A5 HEAD DETAIL @ INTERIOR DOOR
A702 3" = 1'-0"



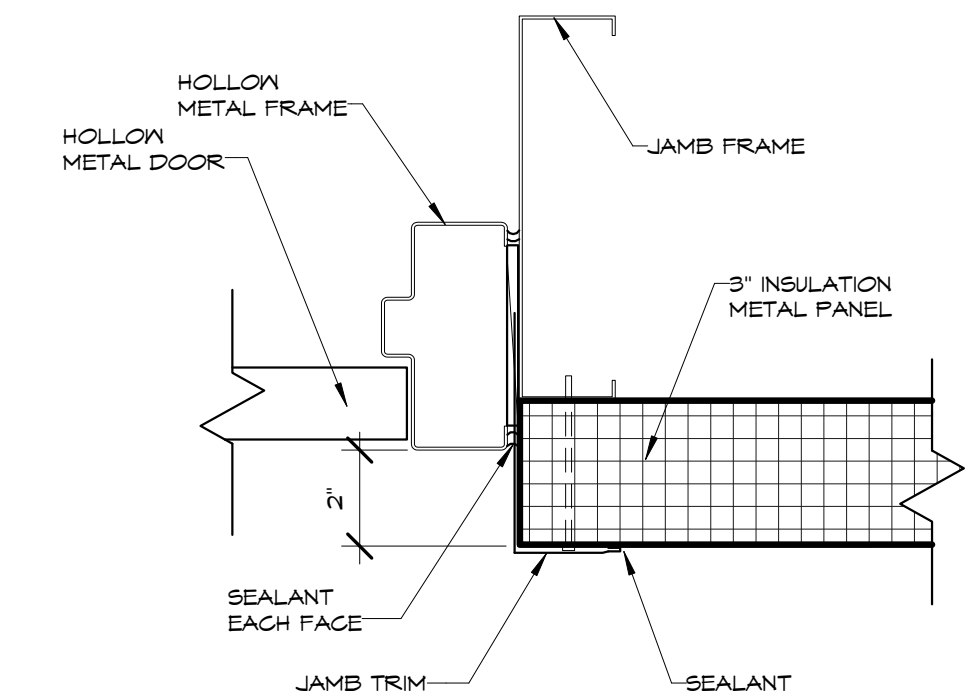
B5 JAMB DETAIL @ INTERIOR DOOR
A702 3" = 1'-0"



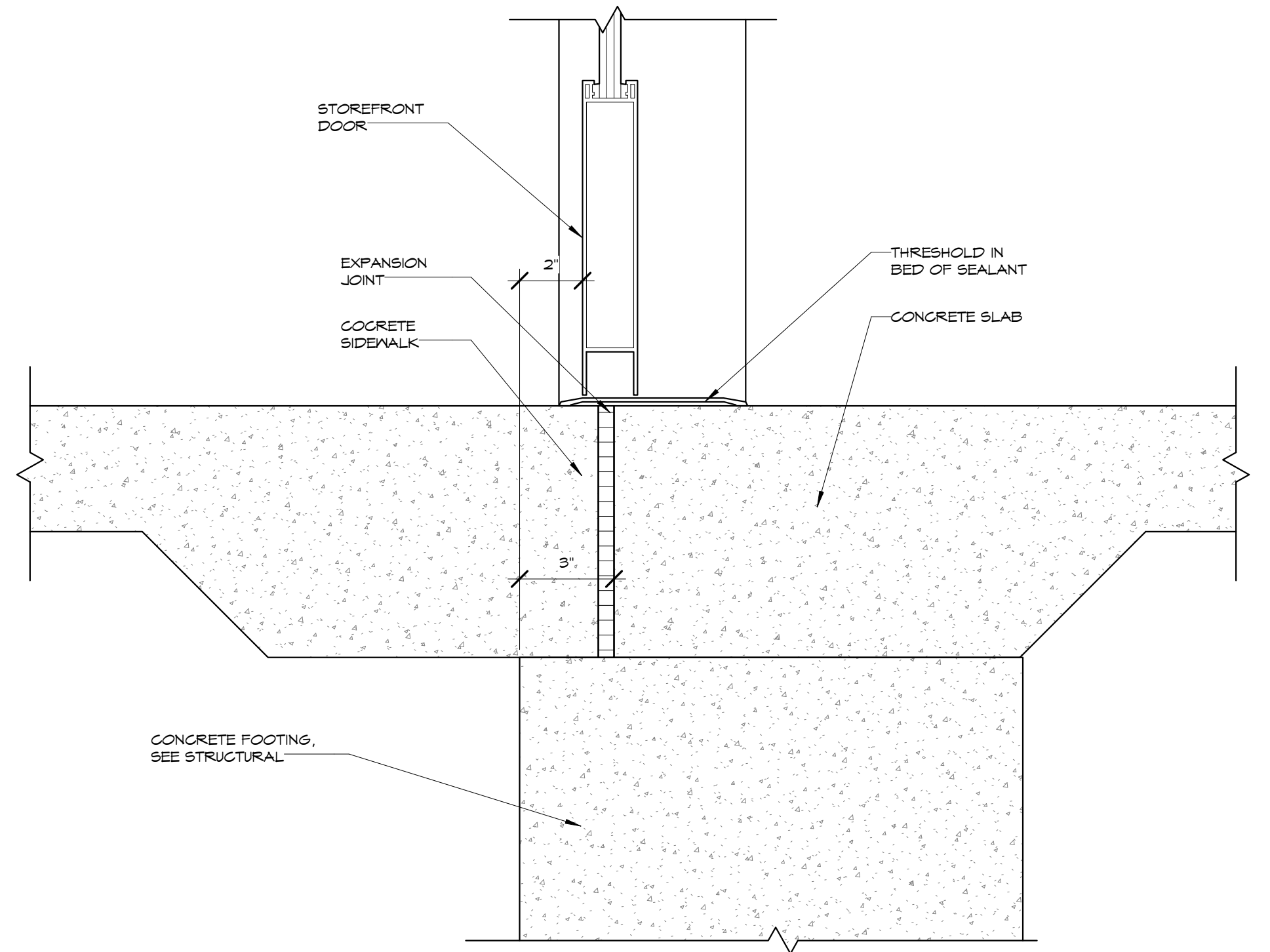
D5 THRESHOLD DETAIL @ INTERIOR DOOR
A702 3" = 1'-0"



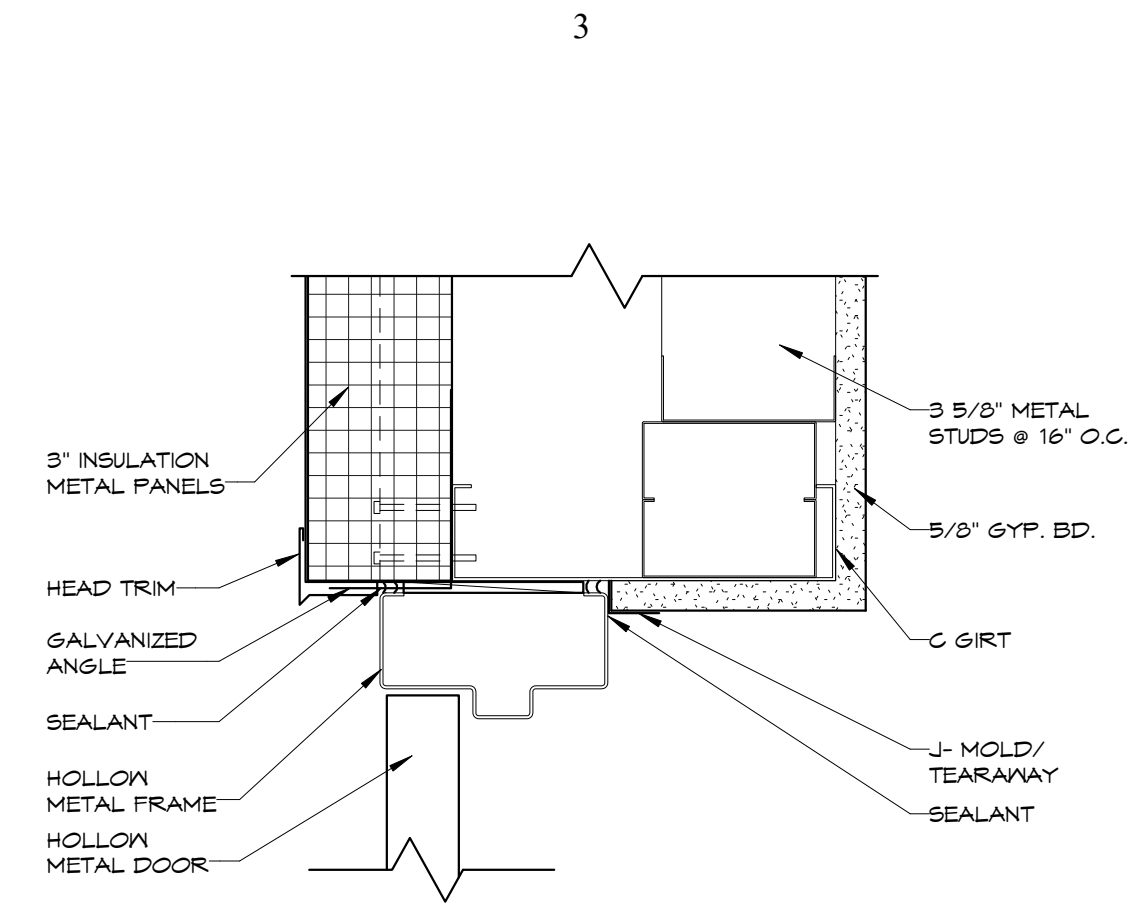
A4 HEAD DETAIL @ EXTERIOR HM DOOR
A702 3" = 1'-0"



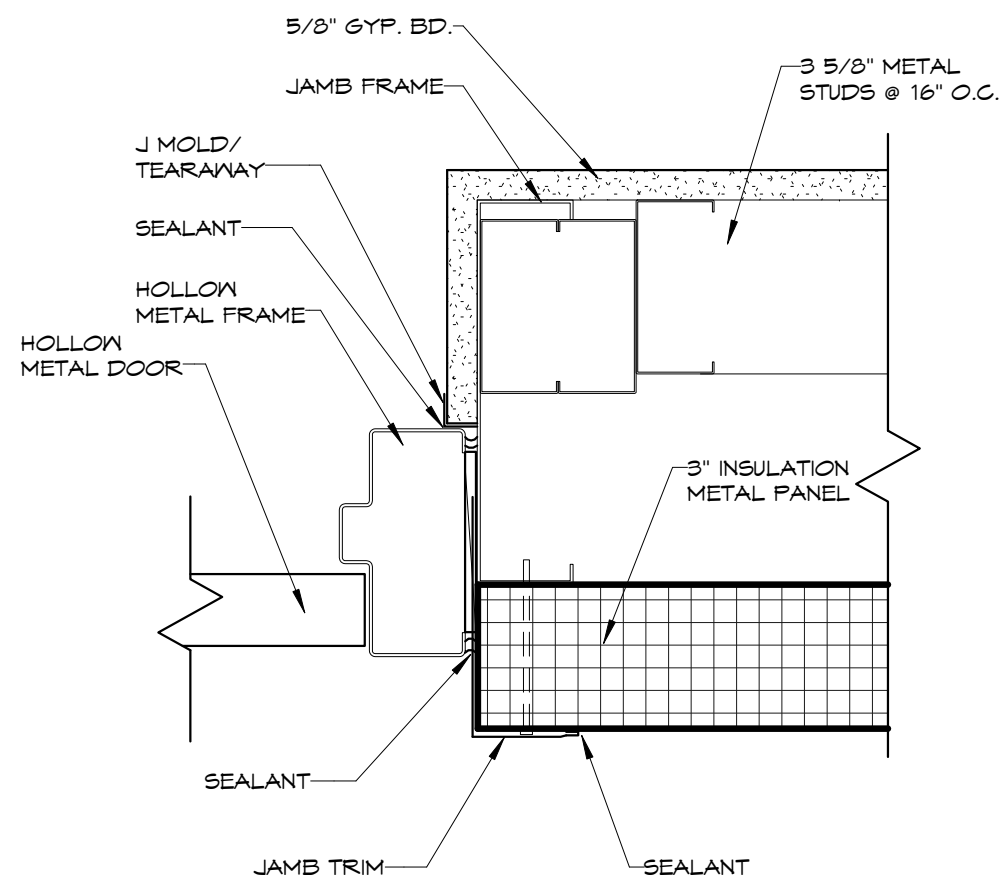
B4 JAMB DETAIL @ EXTERIOR HM DOOR
A702 3" = 1'-0"



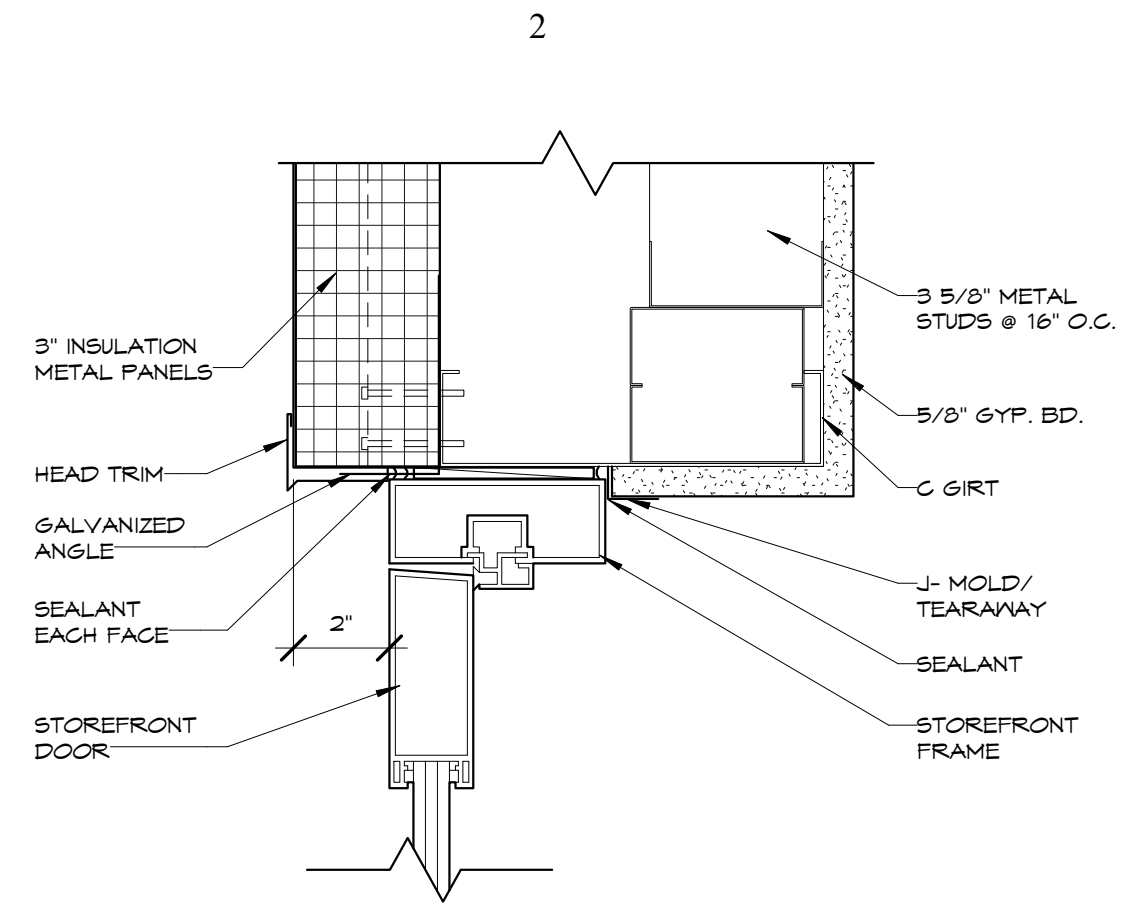
D4 THRESHOLD DETAIL @ EXTERIOR SF DOOR
A702 3" = 1'-0"



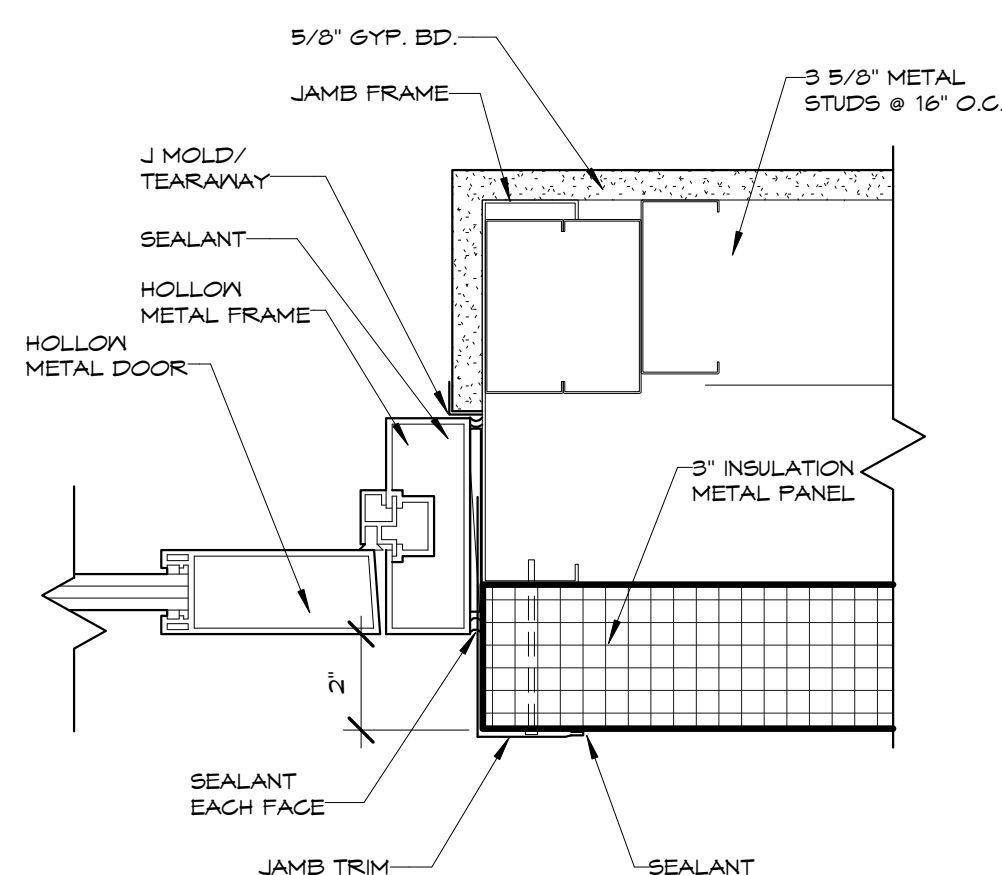
A3 HEAD DETAIL @ EXTERIOR HM DOOR
A702 3" = 1'-0"



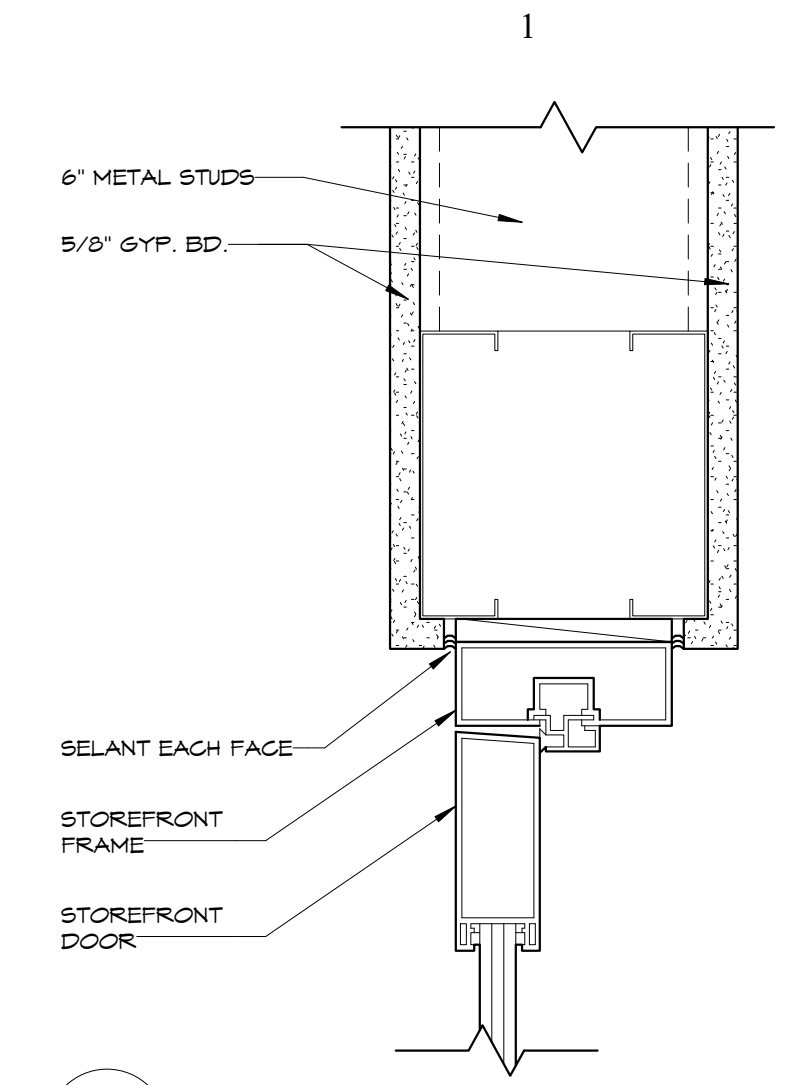
B3 JAMB DETAIL @ EXTERIOR HM DOOR
A702 3" = 1'-0"



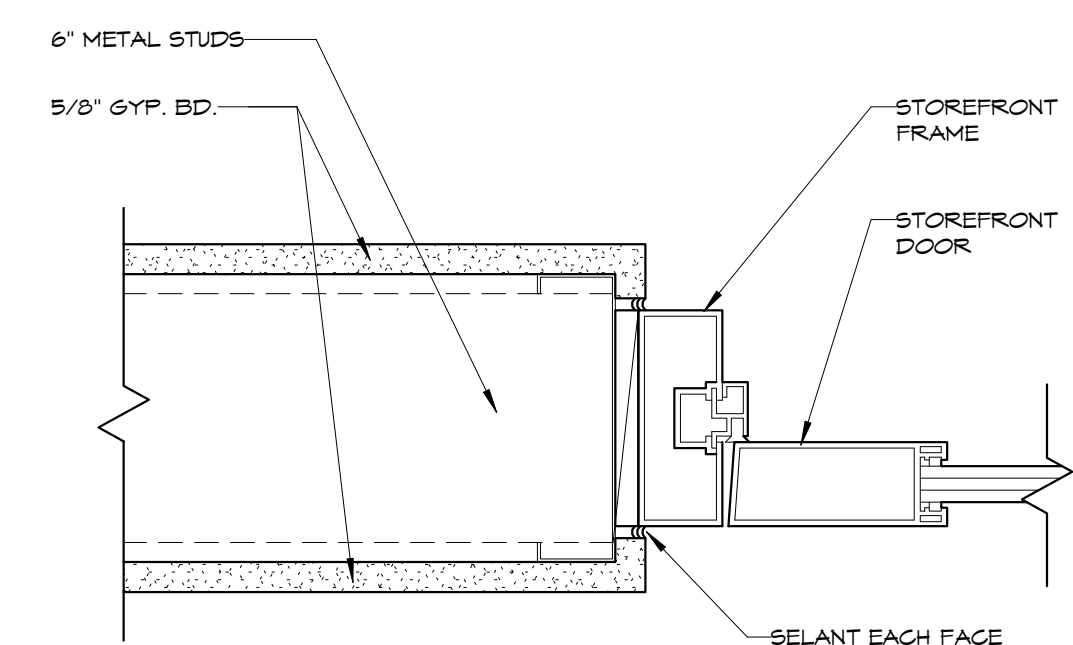
A2 HEAD DETAIL @ EXTERIOR SF DOOR
A702 3" = 1'-0"



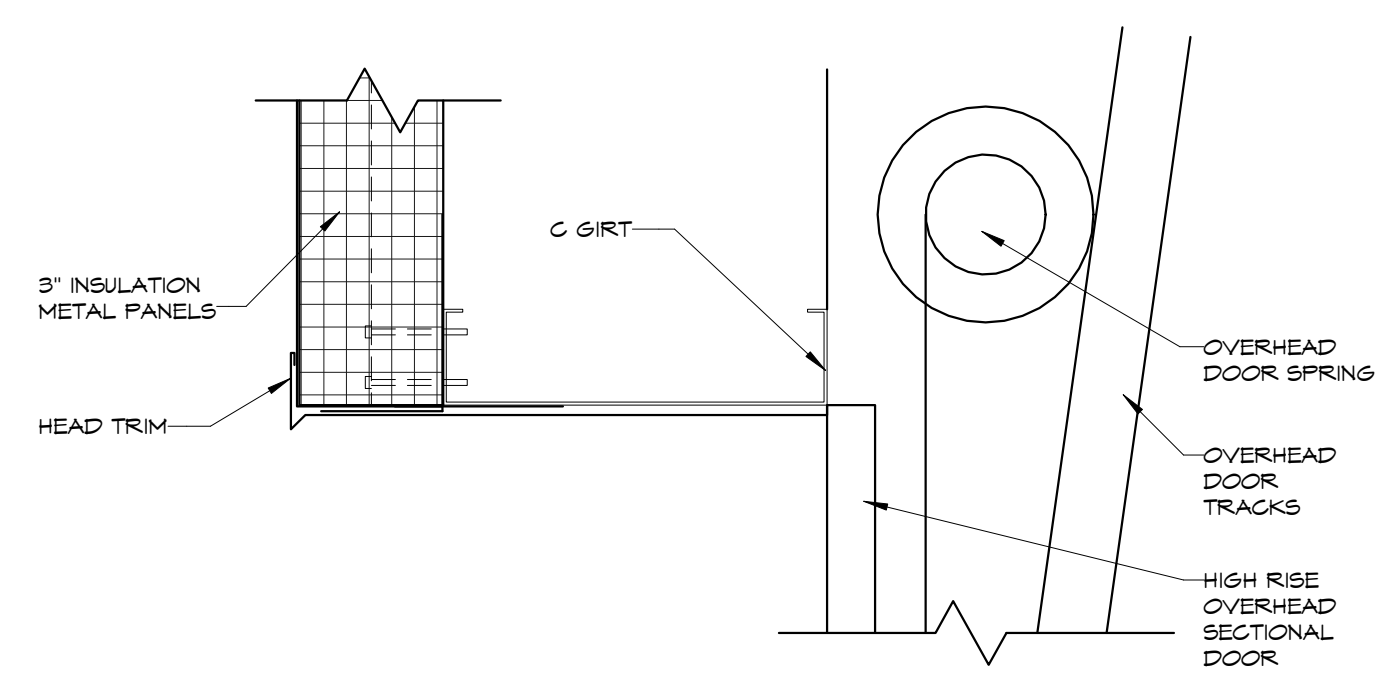
B2 JAMB DETAIL @ EXTERIOR SF DOOR
A702 3" = 1'-0"



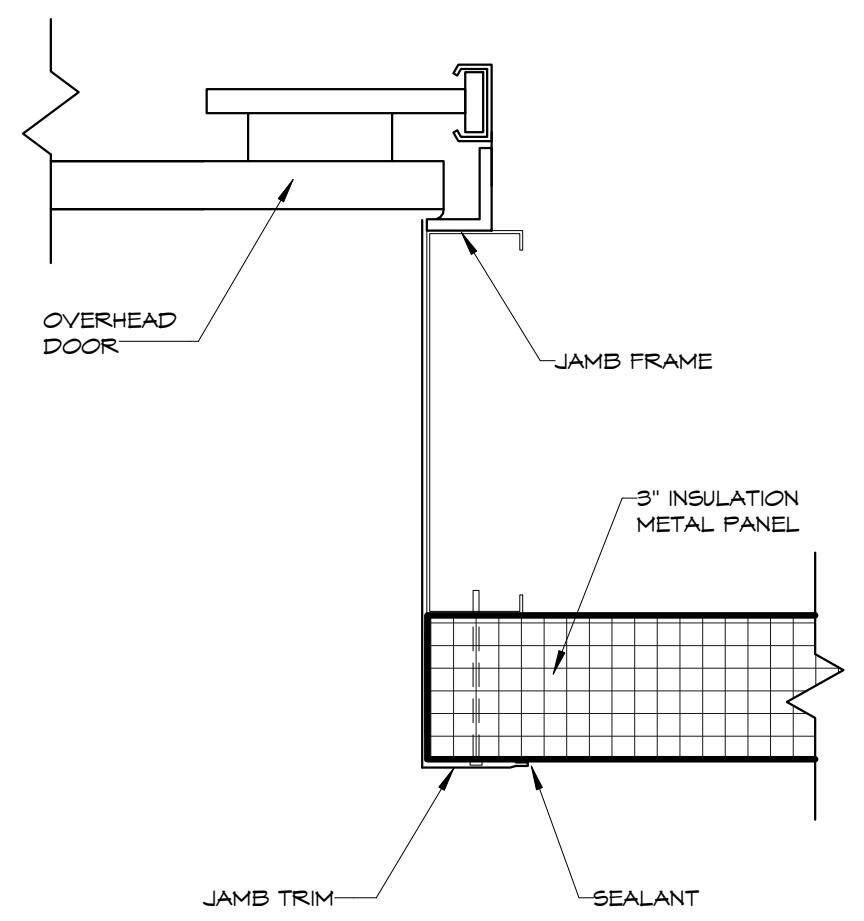
A1 HEAD DETAIL @ INTERIOR SF DOOR
A702 3" = 1'-0"



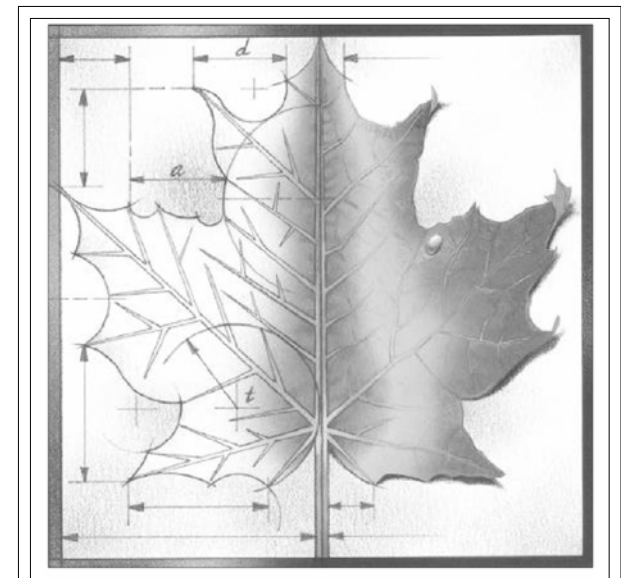
B1 JAMB DETAIL @ INTERIOR SF DOOR
A702 3" = 1'-0"



C1 HEAD DETAIL @ OVERHEAD DOOR
A702 3" = 1'-0"



D1 JAMB DETAIL @ OVERHEAD DOOR
A702 3" = 1'-0"

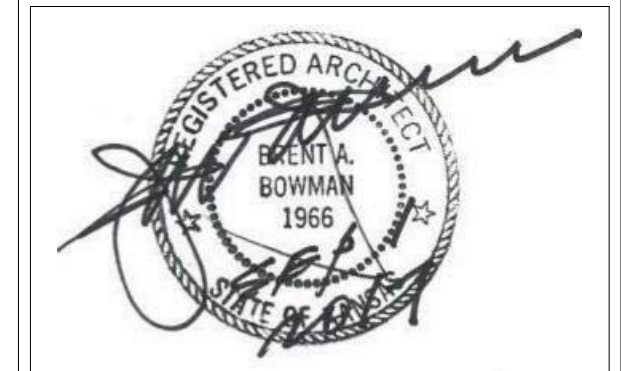


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REV	DESCRIPTION	DATE



Project Number: 17036

Date: 9/1/17

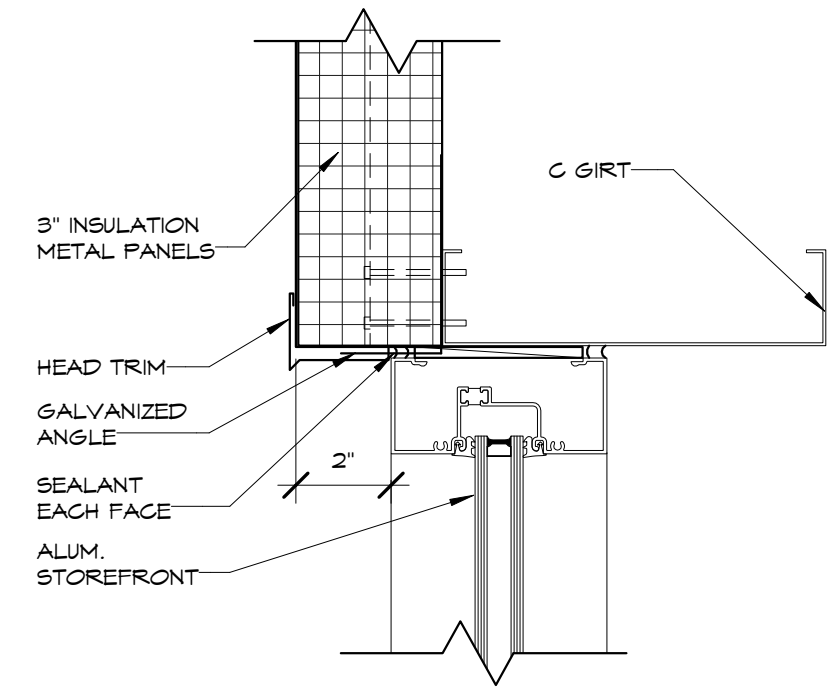
Project Name: **USD 320 MULTIPURPOSE BUILDING**

Project Address: **WAMEGO HIGH SCHOOL 801 LINCOLN WAMEGO, KS 66547**

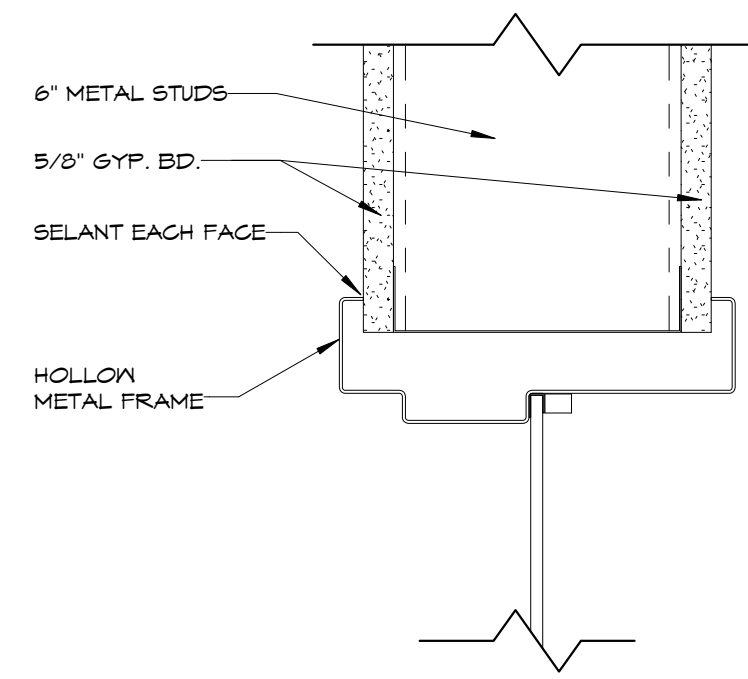
Sheet Title: **DOOR DETAILS**

Sheet: **A702**

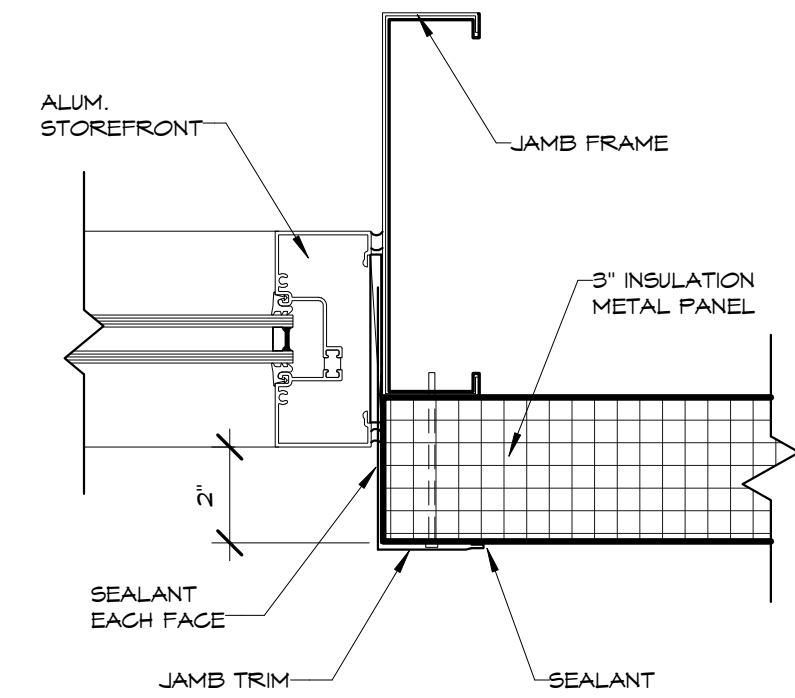
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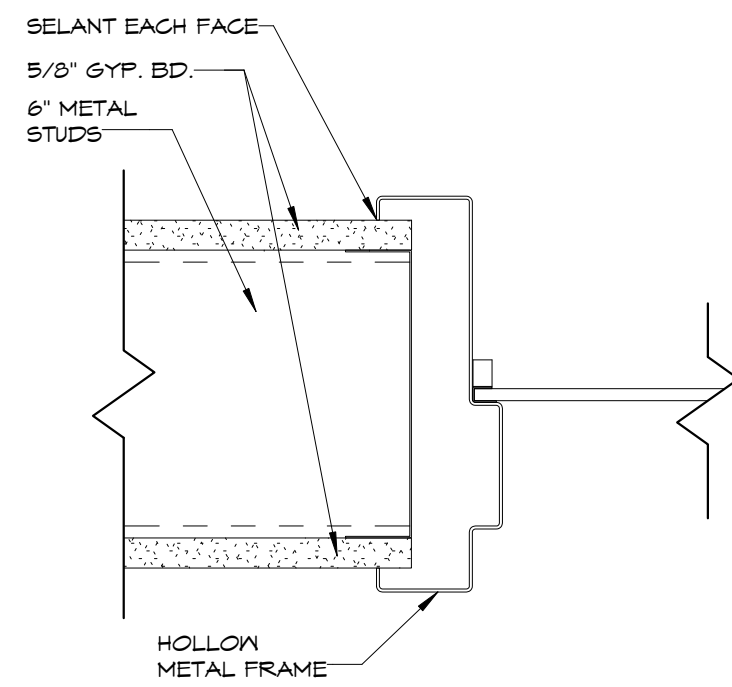
A5 HEAD DETAIL @ EXTERIOR WINDOW
3" = 1'-0"



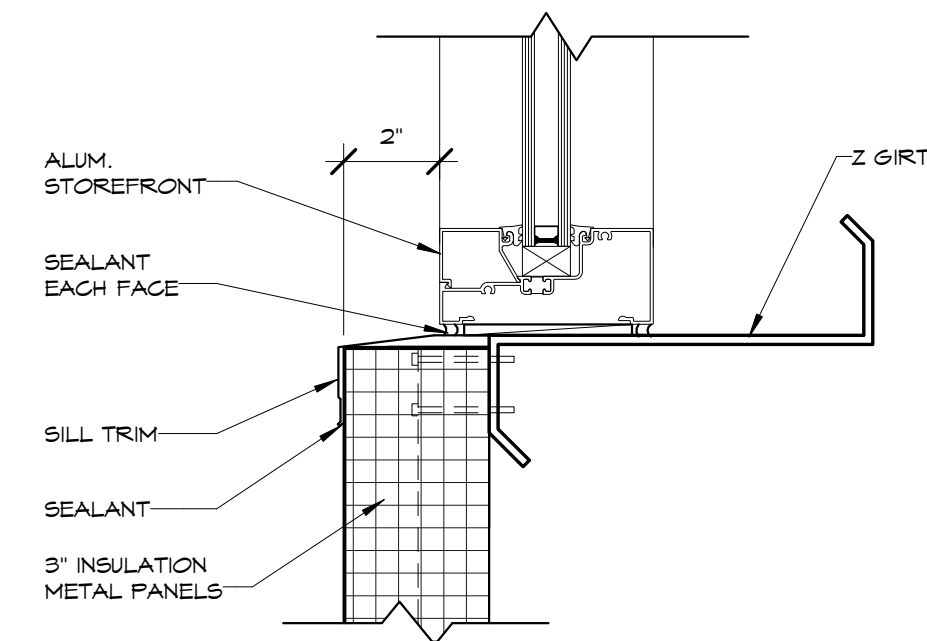
A4 HEAD DETAIL @ INTERIOR WINDOW
3" = 1'-0"



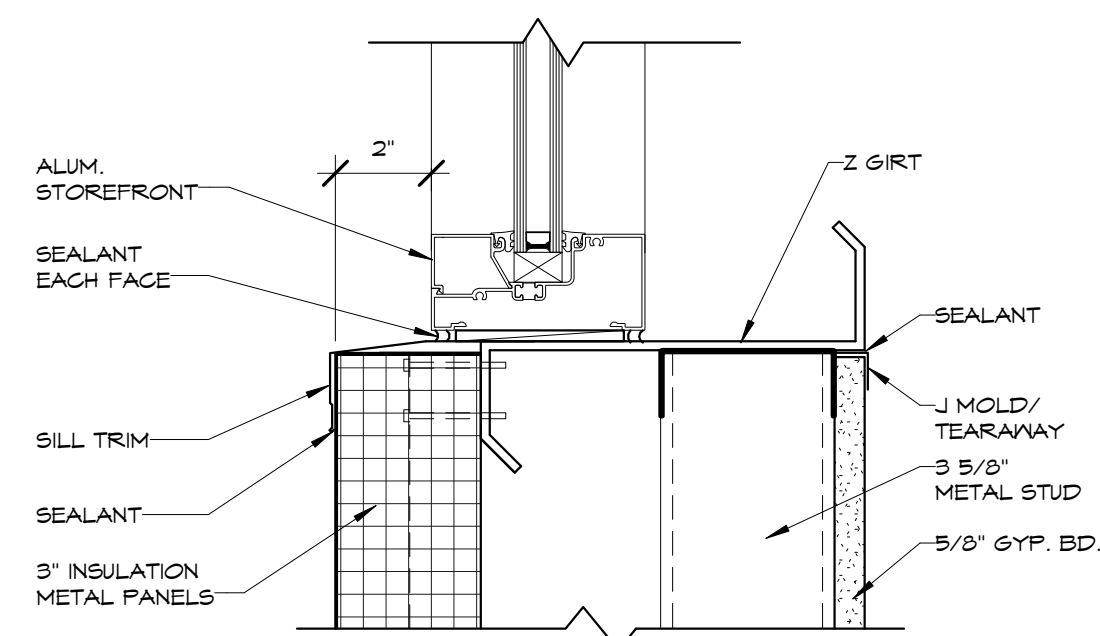
B5 JAMB DETAIL @ EXTERIOR WINDOW
3" = 1'-0"



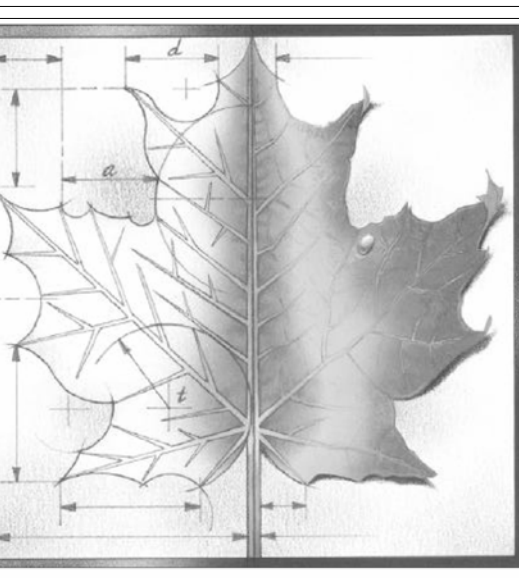
B4 JAMB DETAIL @ INTERIOR WINDOW
3" = 1'-0"



C5 SILL DETAIL @ EXTERIOR WINDOW
3" = 1'-0"



1 SILL DETAIL @ EXTERIOR WINDOW
3" = 1'-0"



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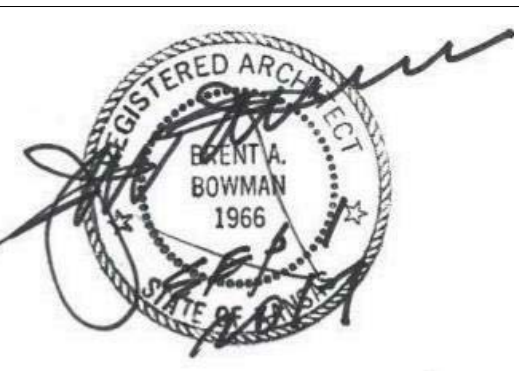
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REV	DESCRIPTION	DATE



Project Number: **17036**

Date: **9/1/17**

Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
**WAMEGO HIGH SCHOOL
801 LINCOLN
WAMEGO, KS 66547**

Sheet Title:

**WINDOW
DETAILS**

Sheet:

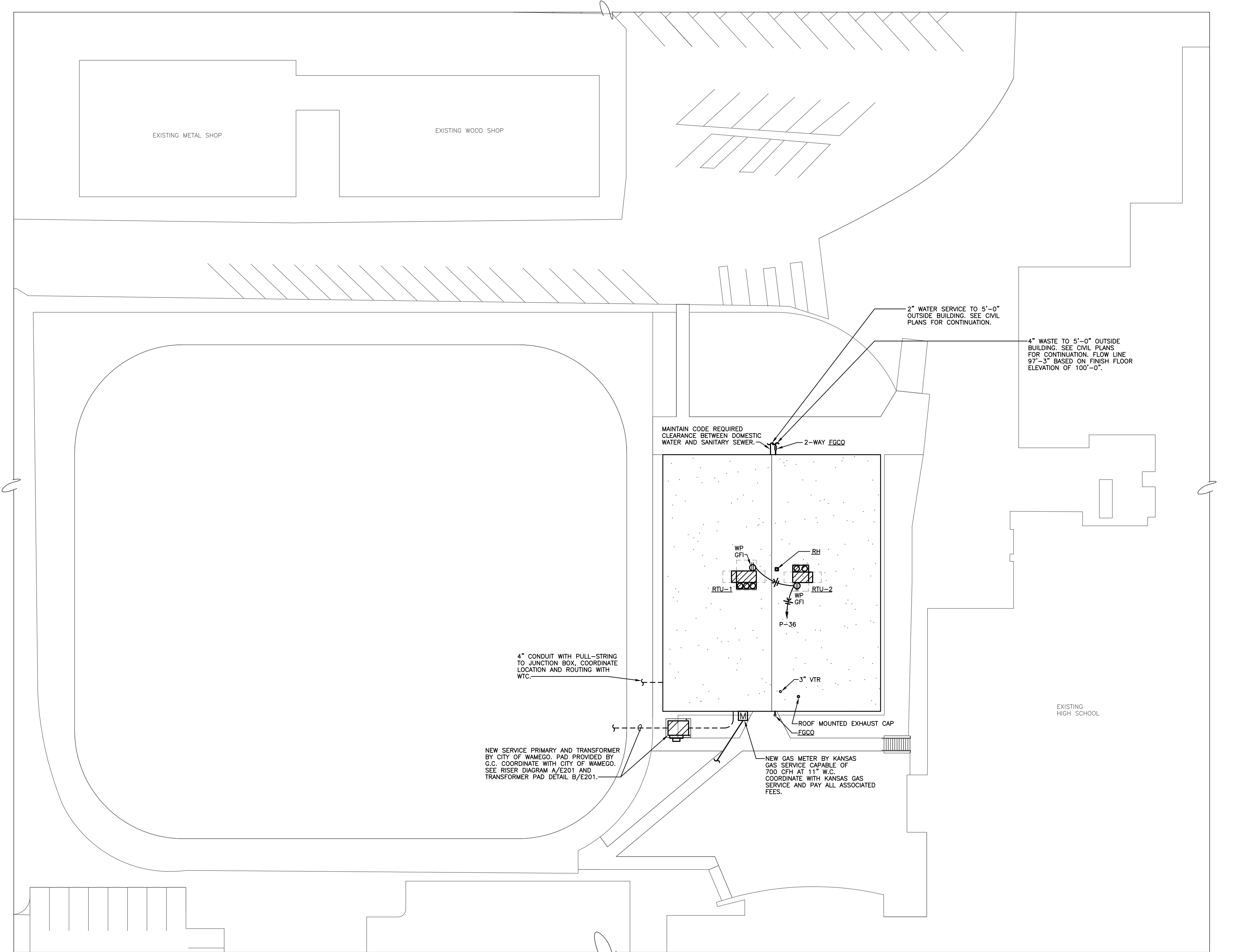
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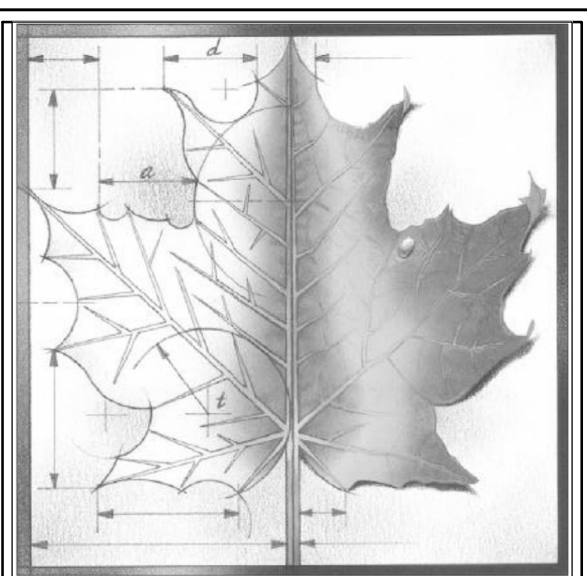
MEP SYMBOLS LEGEND			
	Thermostat		Duplex receptacle
	90° Elbow down, round duct		Ground fault interrupting duplex receptacle
	90° Elbow up, round duct		Countertop duplex receptacle
	Round duct offset		Weatherproof duplex receptacle
	Radius elbow		Four-plex receptacle
	90° Elbow down, rectangular supply duct		Special receptacle as noted
	90° Elbow up, rectangular supply duct		Telephone or intercom box
	90° Elbow down, rectangular return duct		Data box
	90° Elbow up, rectangular return duct		Countertop data box
	Rectangular elbow with turning vanes		Cable television box
	Flexible duct		Flush junction box
	Manual balancing damper		Surface or concealed junction box
	Motorized damper		Electrical connection to equipment
	Ceiling supply air diffuser		Single pole switch
	Ceiling return air grille		Keyed switch
	Sidewall supply air diffuser		Timer switch
	Sidewall return air grille		Three-way switch
	Supply air slot diffuser		Four-way switch
	Round tap in bottom of duct		Manual motor starter
	Rectangular tap in bottom of duct		Electrical disconnect switch
	Condensate drain		Motor starter
	Cold water		Electrical motor
	Hot water		Conduit concealed in wall or ceiling
	Natural gas		In-floor conduit
	Sanitary waste above grade		Homerun to panelboard with conductors as indicated. Do not share neutrals unless noted otherwise.
	Sanitary waste below grade		Panelboard
	Sanitary vent		Transformer
	VTR Vent through roof		Electrical meter
	Plumbing trap		Clock backbox
	Pipe turning down		Wall mounting bracket
	Pipe turning up		Intercom ceiling speaker
	Shock arrester		Fire alarm horn/strobe
	Ball valve		Fire alarm smoke detector
	Gate valve		Fire alarm pull station
	Check valve		Fire alarm duct smoke detector
	Gas cock		Fire alarm test switch
	Union		Fire alarm relay/addressable control module
	Temperature/pressure relief valve		Fire alarm addressable monitor module
	Strainer		Fire alarm strobe
	Automatic air vent		Fire alarm control panel
	Manual air vent		Circuit breaker
	Flexible pipe		U.N.O. Unless noted otherwise
	Gauge		A.F.F. Above finished floor
	Test plug		N.I.C. Not in contract
	Reducer		TYP Typical
			G.C. General Contractor

GENERAL MECHANICAL AND ELECTRICAL NOTES

- Do not scale these drawings.
- Submittal of detailed piping and electrical conduit installation shop drawings are not required. However, the Contractor shall be responsible for field verification of all dimensions and clearances for all system layouts. This shall be accomplished prior to installation.
- Maintain maximum possible vertical clearance beneath all new conduit, equipment, and piping.
- These drawings are a schematic representation of the work that is to be accomplished by this Contract. Refer to Architectural reflected ceiling plans and elevations for exact locations of all ceiling and wall mounted devices and equipment.
- Lack of coordination between trades will not be a basis for change orders. Rework of already completed work to accommodate other trades will be performed at the Contractors' expense.
- See Specifications for additional requirements.
- All piping shall be installed concealed in finished areas, unless noted other wise.
- All new circuitry shall be concealed in finished areas, unless noted otherwise.
- Coordinate cutting and patching of walls, floors and ceilings with General Contractor.



SITE PLAN - MEP
1" = 30'-0"



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Project Number:
Date: 9/1/17

Project Name:
USD 320 MULTIPURPOSE BUILDING

Project Address:
WAMEGO, KS

Sheet Title:
MEP SITE PLAN

Sheet:
ME101

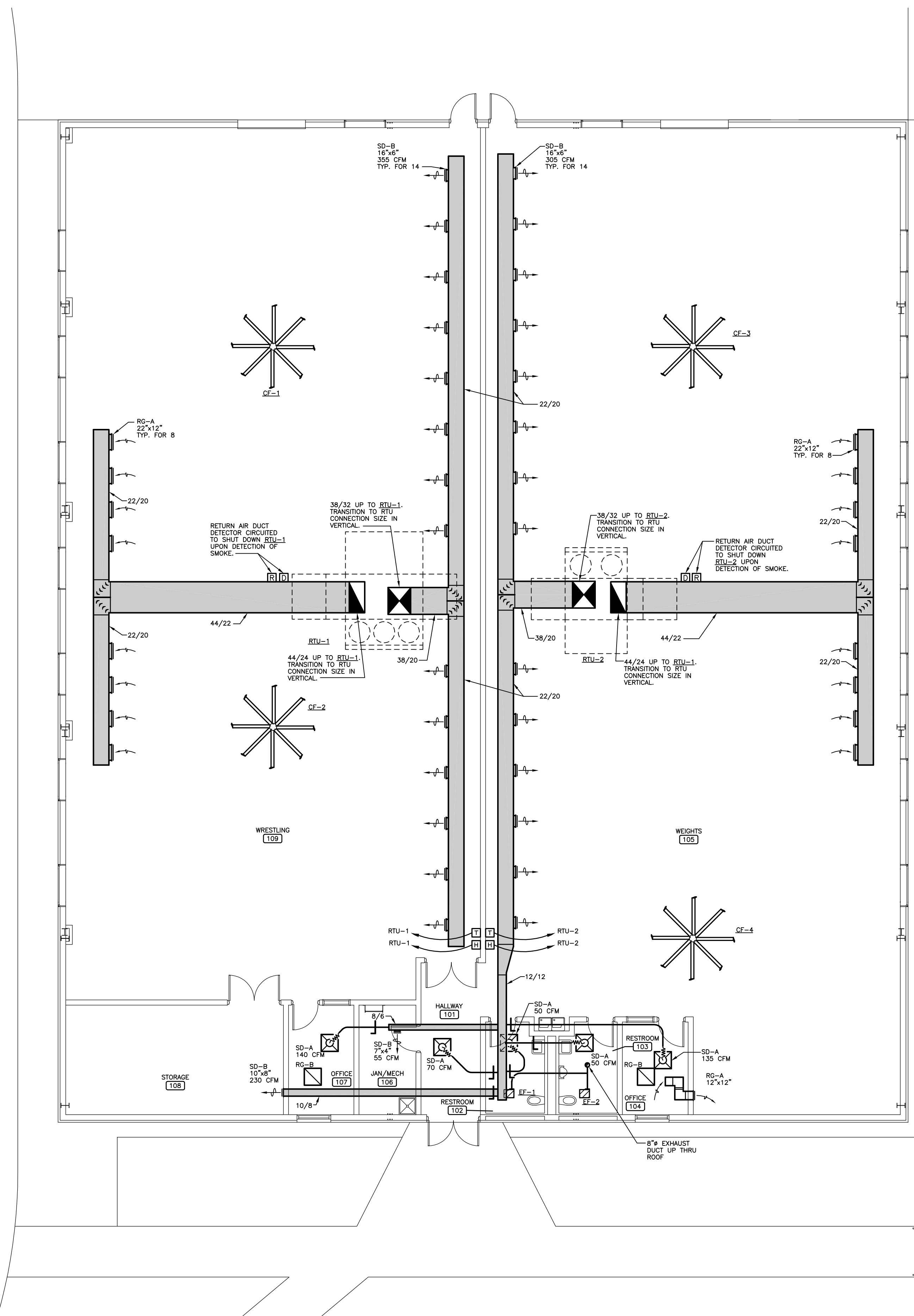
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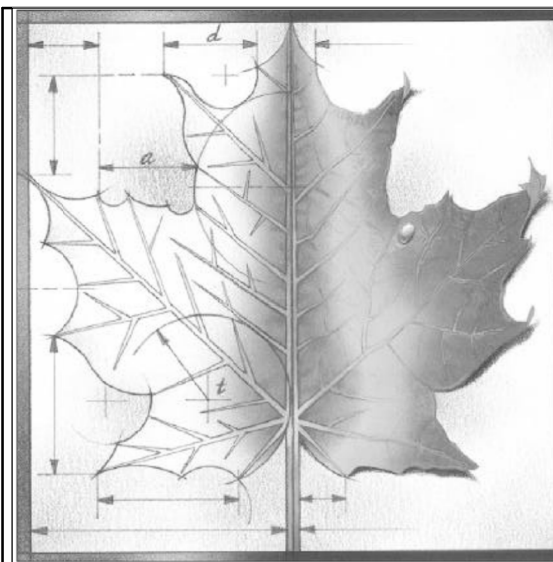


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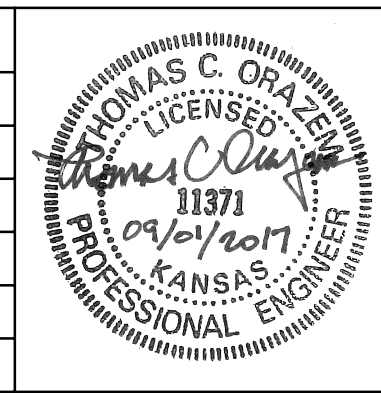


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Project Number:

Date: 9/1/17

Project Name:
**USD 320
MULTIPURPOSE
BUILDING**

Project Address:
WAMEGO, KS

Sheet Title:
**MECHANICAL
PLAN**

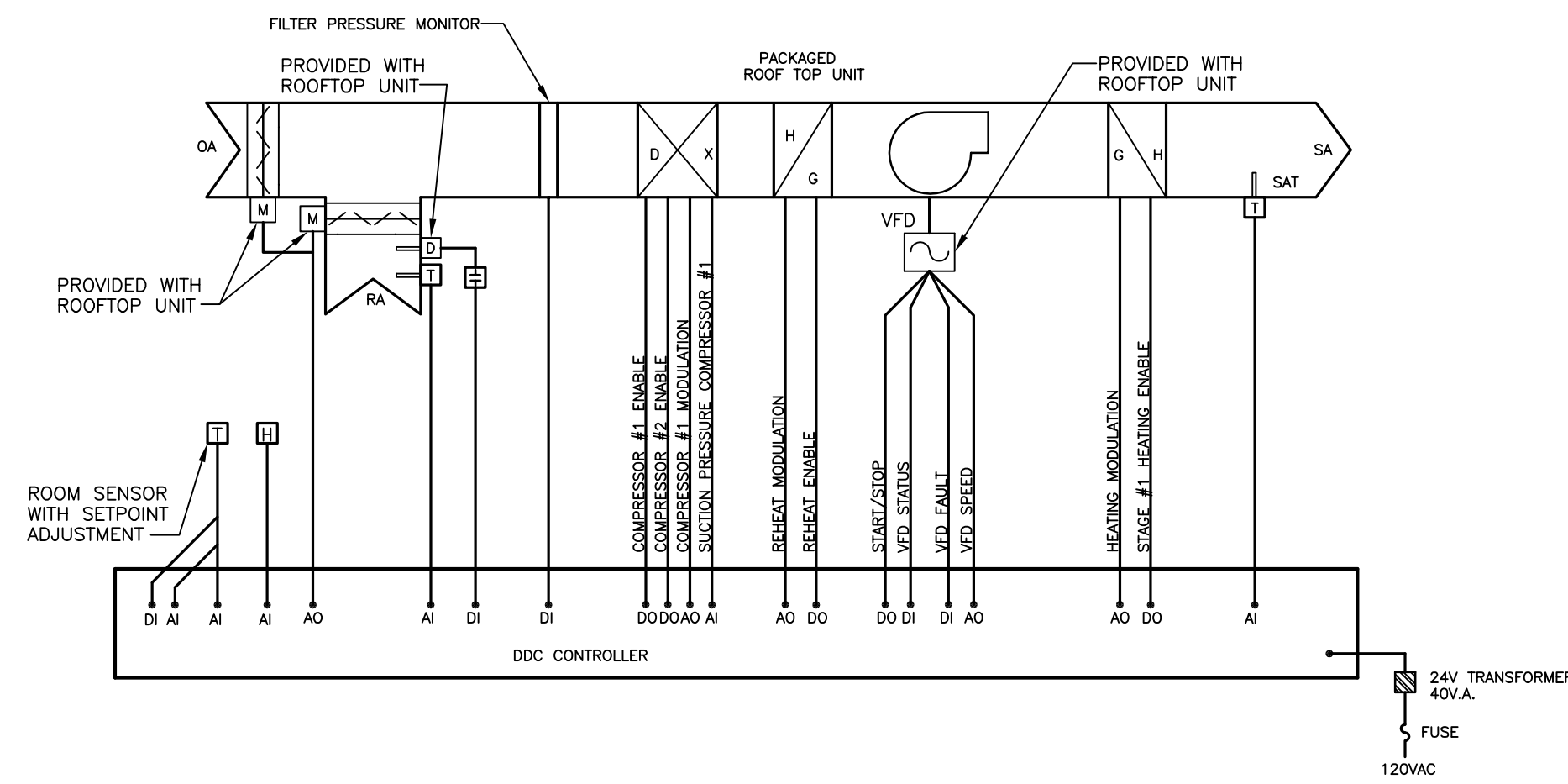
Sheet:
M101

OF 7



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

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Manhattan, Kansas
Job No. 15011-1
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A SINGLE ZONE ROOFTOP UNIT CONTROLS
NO SCALE

SEQUENCE OF OPERATIONS: RTU

Occupied Mode:
1. The building automation system shall enable the RTU to be occupied via its time-of-day schedule or local override button. During occupancy, the supply fan shall run continuously and the outside air damper shall open to minimum position.

Cooling Occupied: Mechanical Cooling
1. When the space temperature is above the cooling set point, compressor #1 shall be enabled and the variable capacity compressor will modulate to maintain space temperature set point (74F adj.).
2. If additional cooling is needed, the compressor #2 is enabled, and the variable capacity compressor will continue to modulate to maintain space set point.

Cooling Occupied: Economizer
1. If the outside air enthalpy falls below the economizer setpoint (adj.), the unit shall disable mechanical cooling operation and modulate the outside air damper and return air damper to maintain the room temperature set point (adj.).

Dehumidification Mode:
1. Anytime the space humidity is above 55% rh (adj.), the unit shall enter dehumidification mode. During the dehumidification mode, compressor #1 shall be enabled and the variable capacity compressor shall modulate to maintain suction pressure. The hot gas reheat coil shall be enabled and the valve shall modulate to maintain the space temperature setpoint (70F, adj.).

Heating Occupied:
1. When the space temperature is below the heating set point, the gas heat shall be enabled and the gas valve shall modulate to maintain space temperature set point (70F adj.).

Filter Differential Pressure Monitor:
1. The differential pressure switch across the filter shall be monitored by the building automation system and an alarm generated if the switch closes, indicating the filter is in need of replacement.

Unoccupied Mode:
1. During the unoccupied mode, as determined by the time-of-day schedule, the unit fan and all heating and cooling shall be disabled and the outside air damper shall close.
2. If the night override button is depressed on the thermostat, the rooftop unit will be enabled and will run for a time period of two hours (adj.).
3. Unit will maintain unoccupied setback temperatures of 60°F H / 60° C (adj.).
4. If the space temperature rises above the unoccupied cooling set point or drops below the unoccupied heating set point, the unit fan and required cooling or heating shall be enabled.
5. The outside air damper shall remain closed during unoccupied mode.

Smoke Detection:
1. Upon detection of smoke at the return air duct smoke detector the unit shall be shutdown.

Notes:
1. Rooftop unit provided with integral head pressure control for control of condensing unit fans.

CONTROLS SYMBOLS LEGEND

[Symbol]	Electric actuator
[Symbol]	Carbon dioxide Sensor
[Symbol]	End switch
[Symbol]	Pressure switch
[Symbol]	Flow switch
[Symbol]	Flow sensor
[Symbol]	Differential pressure transducer
[Symbol]	Flow meter
[Symbol]	Room temperature sensor
[Symbol]	Thermostat
[Symbol]	Relay
[Symbol]	Freeze—stat with 2 sets of contacts
[Symbol]	Current switch
[Symbol]	3-way valve
[Symbol]	Control valve
[Symbol]	Connect to existing
[Symbol]	Space humidity sensor
[Symbol]	Duct humidity sensor
[Symbol]	Duct temperature sensor
[Symbol]	Pipe temperature sensor
[Symbol]	Thermometer
[Symbol]	Differential pressure
[Symbol]	Variable frequency drive
[Symbol]	Fire alarm system control module
[Symbol]	LED pilot light
[Symbol]	Spring wound timer

Abbreviations

SA	Supply air
RA	Return air
OA	Outside air
SAT	Supply air temperature
RAT	Return air temperature
OAT	Outside air temperature
MAT	Mixed air temperature
DO	Digital output
DI	Digital input
AO	Analog output
AI	Analog input

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2
DUTY	Exhaust	Exhaust
AREA SERVED	Restroom 116	Restroom 117
TYPE	Ceiling Cabinet	Ceiling Cabinet
CFM	70	70
EXT. S.P. (*WG)	0.375	0.375
TYPE DRIVE	Direct	Direct
DESIGN HP OR (WATTS)	(20)	(20)
MOTOR RPM	700	700
MAX. SONES	1.2	1.2
ACCESSORIES	1,2,3	1,2,3,4
VOLTAGE/PHASE	120/1	120/1
BASED ON: (Greenheck)	SP-B90	SP-B90

ACCESSORY KEY:
1. Provide with backdraft damper.
2. Provide with factory mounted and wired disconnect.
3. Provide with unit-mounted solid state speed control.
4. Provide 12" tall insulated roof curb compatible with roof type and construction, and RCC-7 curb cap with integral birdscreen.

CEILING FAN SCHEDULE

DESIGNATION	CF-1,2	CF-3,4
AREA SERVED	WRESTLING 115	WEIGHTS 120
TYPE	CEILING MOUNTED	CEILING MOUNTED
DIAMETER (FT)	HVLS	HVLS
NO OF FOILS	10	10
NO OF FOLDS	5	5
MAXIMUM SPEED (RPM)	122	122
BLADE DISTANCE FROM CEILING (FT)	5	3
TYPE DRIVE	DIRECT	DIRECT
DESIGN HP	1.0	1.0
VOLTAGE/PHASE	208/1	208/1
WEIGHT (LBS)	181	181
BASED ON: (ENTREMATICS FANS)	EF10B105	EF10B105

NOTES:
1. Provide each fan with variable speed, wall mounted controller and all required control circuitry.
2. Provide with mounting system, safety cables, and all required hardware to mount per the manufacturer's recommendations.

AIR DEVICE SCHEDULE

All devices shall be supplied in white finish suitable for field painting.

SD-A	CFM Range	Max. APD	Max. NC	Neck Dia.
EH Price SMD/6/4A steel louvered flush face diffuser, 24" square face, round neck, gasketed beveled frame. Blow pattern is 4-way unless indicated otherwise.	0-110	0.10	30	6"
	111-200	0.10	30	8"
	201-300	0.10	30	10"
	301-400	0.10	30	12"
	401-535	0.10	30	14"

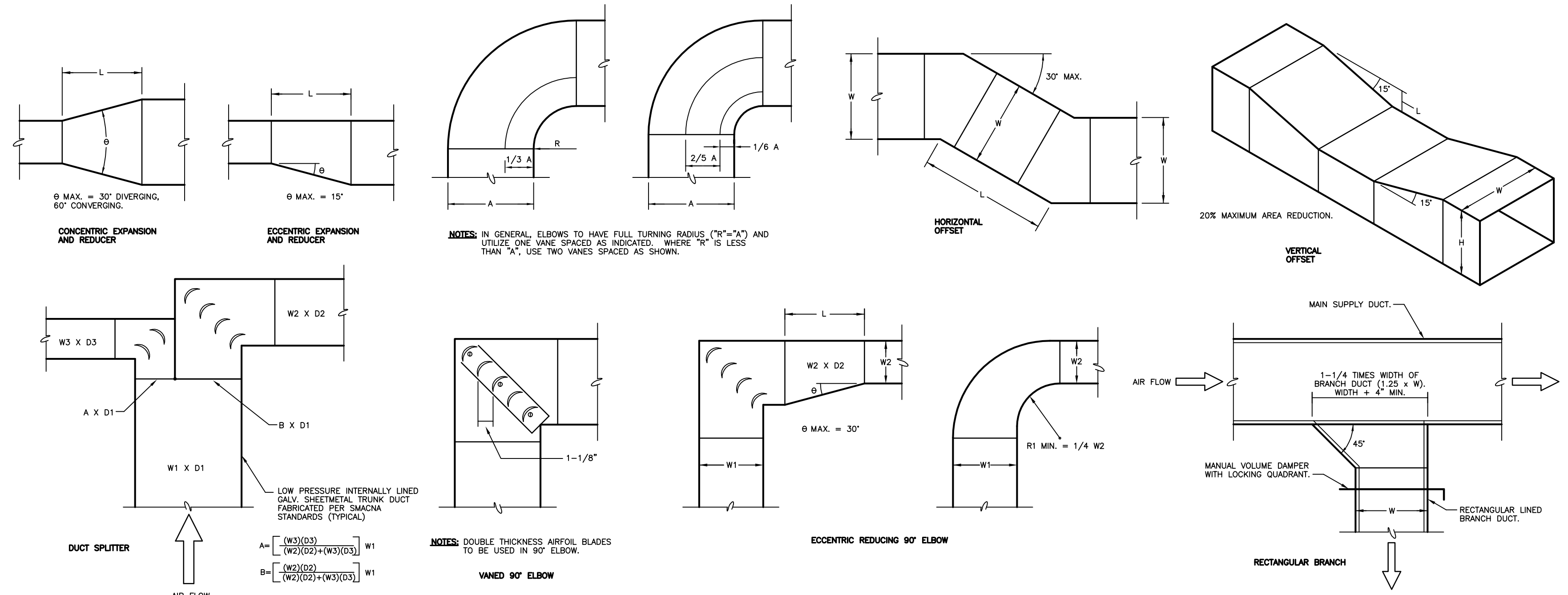
Unless noted otherwise, runouts to diffusers shall be same size as neck.

SD-B	EH Price 520D steel double deflection sidewall register with 0 degree horizontal front blades, 1-1/4" screwed flanged frame, gasketed border, opposed blade damper. Size as indicated on drawings.
RG-A	EH Price 530/L steel louvered return air grille with horizontal blades, 1-1/4" screwed border and gasketed frame. Size as indicated on drawings.
RG-B	EH Price SMD steel louvered flush face return grille with 12" square neck, 24" square face, gasketed frame, provide with hardware for install in lay-in or hard ceiling.

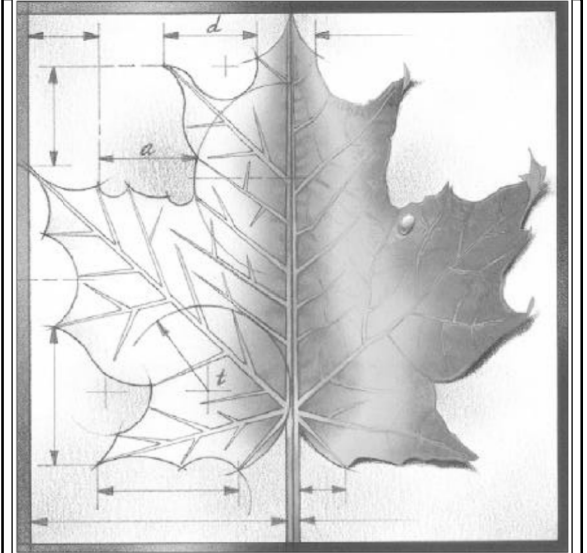
ROOF TOP UNIT SCHEDULE

ROOF TOP UNIT	RTU-1	RTU-2
TYPE	HEATING/COOLING	HEATING/COOLING
SERVES	SEE PLANS	SEE PLANS
CONFIGURATION	HORIZONTAL DISCHARGE	HORIZONTAL DISCHARGE
CFM	5000	5000
EXT. S.P. (*WG)	1.6	1.6
MINIMUM O.A. CFM	1575	1110
HEATING FUEL	NATURAL GAS	NATURAL GAS
MAXIMUM HEATING INPUT (MBH)	405.0	292.5
MINIMUM HEATING OUTPUT (MBH)	328.1	234.0
HEATING STAGES	MODULATING	MODULATING
REFRIGERANT	R-410A	R-410A
EVAP. E.A.T. DB/WB (F)	84.5/66.5	81.6/65.2
CONDENSER E.A.T. DB(F)	105	105
NET SENSIBLE COOLING CAPACITY (MBH)	139.2	131.6
NET TOTAL COOLING CAPACITY (MBH)	179.7	162.1
SUPPLY AIR FAN RPM (or speed)	1426	1508
SUPPLY FAN HP	5	5
SUPPLY FAN DRIVE TYPE	DIRECT	DIRECT
CONDENSER FAN HP	2 @ 0.75	2 @ 0.75
NO. COMPRESSORS	2	2
COMPRESSOR F.L.A. (EACH)	27.6	24/25
TOTAL COOLING F.L.A.	83	76
MINIMUM CIRCUIT AMPS	90	83
MAXIMUM HACR CIRCUIT BRKR. AMPS	110	100
FILTERS	2" DISPOSABLE	2" DISPOSABLE
VOLTAGE/PHASE	208/3	208/3
MINIMUM EER (SEER)	12	11.1
APPROXIMATE WEIGHT INCLUDING CURB, & ACCESSORIES (LBS)	3000	2300
BASED ON: (AAON)	RN-018-B-0-EA09-389	RN-015-B-0-EA09-3G9

NOTES:
1. Provide each RTU with a flexible connection at supply and return duct connections and transition as required to duct size.
2. Provide each RTU with factory installed and wired NEMA 3R disconnect switch.
3. Provide each RTU with factory installed and field wired weatherproof GFI NEMA 5-15 receptacle.
4. Equip each unit with terminal strip for interface with building automation system.
5. Install return air duct smoke detector, provided by Electrical Contractor, in RTU's over 2000 cfm of supply air. Detector shall be circuited to shut down unit entirely upon detection of smoke.
6. Provide each RTU with 14" high insulated roof curb compatible with roof slope and construction.
7. Provide each RTU with factory provided and field installed hail guards.
8. Provide each RTU with modulating compressor for variable capacity cooling.
9. Provide each RTU with modulating hot gas reheat.
10. Provide each RTU with modulating gas heat.



B DUCT CONSTRUCTION DETAILS
NO SCALE



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REVISIONS:

Project Number: **USD 320 MULTIPURPOSE BUILDING**

Date: **9/1/17**

Project Name: **WAMEGO, KS**

Project Address: **WAMEGO, KS**

Sheet Title: **MECHANICAL DETAILS & SCHEDULES**

Sheet: **M201**

Sheet: **7**

LIGHTING FIXTURE SCHEDULE

MARK	SIZE	MANUF.	DESCRIPTION	LAMPS
A1	2' x 4'	Williams	Series PT LED lay-in troffer with precision die-formed 22-gauge cold rolled steel housing, diffuse ribbed acrylic shielding, highly reflective non-glare matte white polyester powder coat bonded finish, and room-side access to electrical components without removing fixture from ceiling grid. Provide fixture with 4,000K lumen package producing 3,500 nominal lumens at 34 watts, prewired for non-dimming applications, L70 rated for greater than 50,000 hours, and with efficacy greater than 98 lm/W.	LEDs 34W
A2	2' x 4'	Williams	Similar to type A1 except provided with 4,000K lumen package producing 5,800 nominal lumens at 54 watts and an electronic driver with 0-10V dimming capability.	LEDs 54W
B1	14-3/16" W x 4-13/16" H x 4' L	Williams	Series GL LED low-profile industrial with die-formed aluminum housing, 92% minimum average reflective white polyester powder coat finish, and 11-gauge white powder coated wireguard. Provide fixture with 4,000K lumen package producing 15,000 nominal lumens at 121 watts, an electronic driver prewired for non-dimming applications, and L70 rated for greater than 50,000 hours.	LEDs 121W
B2	14-3/16" W x 4-13/16" H x 4' L	Williams	Similar to type B1 except with 4,000K lumen package producing 20,000 nominal lumens 170 watts.	LEDs 170W
C1	2-3/4" W x 3-1/4" H x 4' L	Williams	Series 75L lensed LED strip fixture with 22 ga. cold rolled steel housing, all parts painted to a minimum 92% average reflectance, and 0.125" thick acrylic frosted lens. Provide all necessary hardware to surface mount or chain hang fixture as required. Provide fixture with 4,000K lumen package producing 3,800 nominal lumens at 41 watts, an electronic driver prewired for non-dimming applications, and L70 rated for greater than 50,000 hours.	LEDs 41W
C2	2-3/4" W x 3-1/4" H x 4' L	Williams	Similar to type C1 except with 4,000K lumen package producing 6,500 nominal lumens at 67 watts.	LEDs 67W
D	5-3/4" W x 3-5/8" D x 6-3/4" H	Lumark	Series XTOR surface mounted LED fixture with die-cast aluminum corrosion resistant housing, one-piece silicon gasket, and impact-resistant tempered glass lens. Provide fixture with 4,000K lumen package producing 2,135 lumens at 18W, and rated for greater than 72,000 hours at 90% lumen maintenance. Finish to be selected by Architect. Mount fixture at 11'-0" A.F.F. to bottom of fixture unless noted otherwise.	LEDs 18W
E1	12-1/2" x 5-1/2" x 5-7/8" D	Mule	Series MRD-HO wall mounted emergency light with white thermoplastic housing, 6 volt DC output, rated for 54 watts at 1.5 hours, solid-state battery charger, sealed maintenance free lead-calcium battery, equipped with two low profile adjustable heads and wall mounting bracket. Provide circuitry for and connect to unswitched power from lighting circuit serving the same area as emergency light. Mount fixture at 7'-6" A.F.F. to bottom of fixture unless noted otherwise. Provide fixture wire 11-gauge powered coated wire guard where indicated on plans with a "WG".	2-12W MR-16
E2	2.25" Dia. x 3-11/16" L x 5-7/8" D	Mule	Series H2O remote emergency light, die-cast aluminum head and glass lens, 6 volt DC, equipped with one adjustable head, weatherproof mounting bracket, and U.L. listed for damp locations. Mount fixture at 7'-6" A.F.F. to bottom of fixture unless noted otherwise.	LEDs
X	12" x 7-1/2"	Mule	Series MX emergency powered exit light with red letters, textured white thermoplastic housing, universal chevrons, 100 ft. visibility. All required mounting hardware, sealed NiCd emergency power battery rated for 90 minutes, integral solid state battery charger, one or two faces as indicated on plans, wall or ceiling mount as indicated on plans. Provide circuitry for and connect to unswitched power from lighting circuit serving same area as exit light. Provide fixture wire 11-gauge powered coated wire guard where indicated on plans with a "WG".	LED

NOTES:
 1. All fixtures to be provided for 120 volt AC operation unless noted otherwise.
 2. Coordinate mounting heights of all wall mounted fixtures with Architect prior to roughing in.

LIGHTING CONTROL DEVICE SCHEDULE

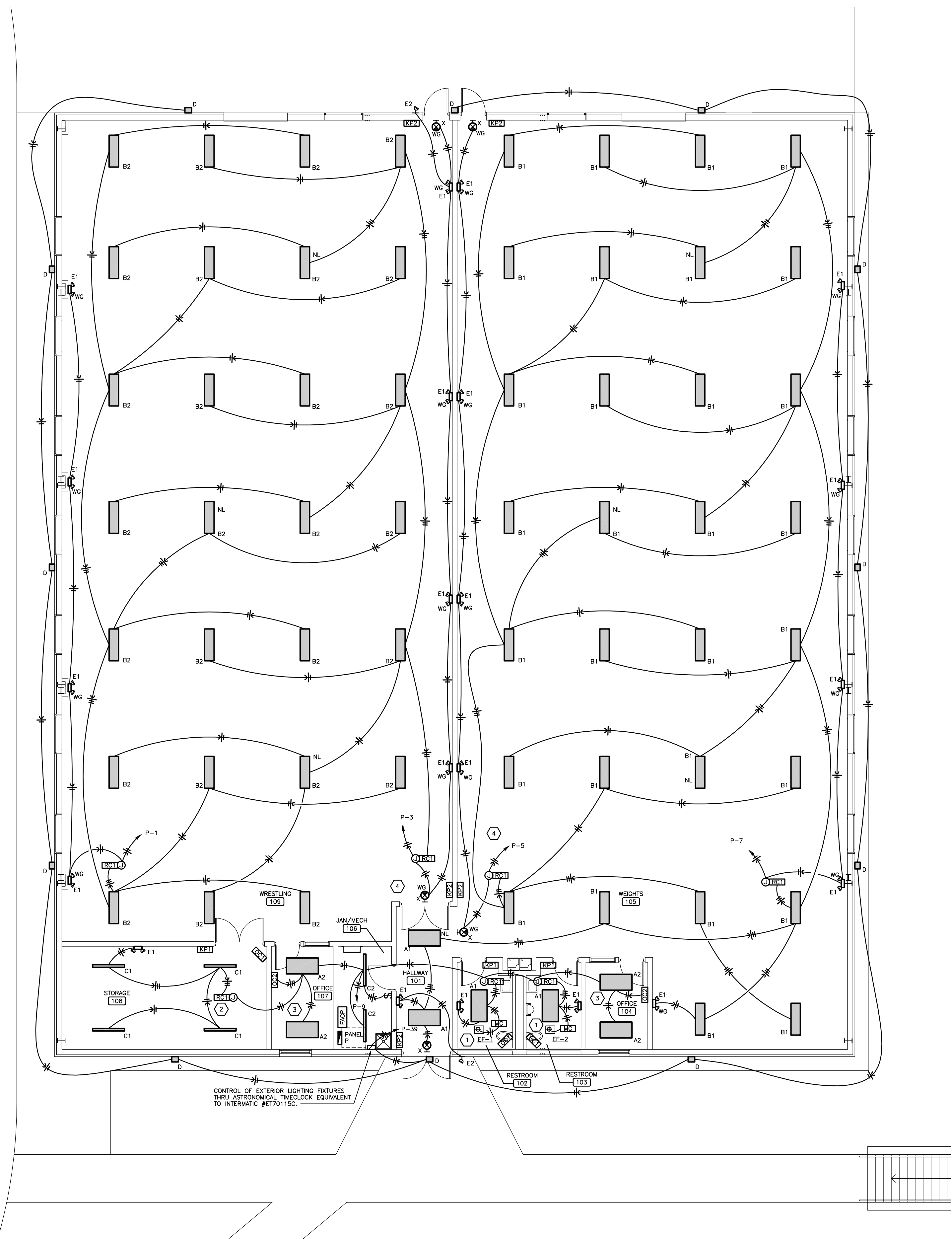
MARK	MANUF.	DESCRIPTION	MOUNTING
OC01	Watt Stopper	LMDX-100 dual technology sensor with passive infrared and ultrasonic sensors, 40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive infrared adjustment, manual ultrasonic adjustment, 1000 sf of desktop motion coverage, 2000 sf of walking motion coverage, swivel mounting bracket. Complete installation for integration to lighting management system.	Ceiling/Wall
OC02	Watt Stopper	PW-311 Passive Infrared 0-10V Dimming Wall Switch Sensor with adjustable time delay, sensitivity adjustment, 20' x 15' minor motion coverage, 120 volt relay, mountable in standard switch box.	Switch Box
OC03	Watt Stopper	LMRC-101 Series Digital On/Off room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling
OC04	Watt Stopper	LMSW-101 Series 1-Button wall switch.	Switch Box
OC05	Watt Stopper	LMSW-105 Series 5-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box
OC06	Watt Stopper	LMRL-100 isolated relay interface for integration of lighting management system with exhaust fan operation. Coordinate installation with Mechanical Controls Contractor.	Above Ceiling

NOTES:
 1. Install occupancy sensors per manufacturer's recommendations.
 2. Provide relays, power supplies, and circuitry for complete operation of sensors.
 3. Set time delays - 15 minutes for offices, 20 minutes for classrooms, 20 minutes for commons, and 15 minutes for all other rooms with occupancy sensors.
 4. Provide digital wireless configuration tool equivalent to Watt Stopper LMCT-100 for remote system and device modifications.

LIGHTING CONTROL SEQUENCE SCHEDULE

TYPE	DESCRIPTION
①	Single Zone with Occupancy Sensor and Mechanical Control Device Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door. Exhaust fan in space controlled through mechanical control device in conjunction with lighting.
②	Single Zone with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door.
③	Single Zone with Dimming Control and Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off/dim from two button pushbutton device located near door. Fixtures will be controlled On/Raise (hold) with button #1 and Off/Lower (hold) with button #2.
④	2-Zones with Nightlighting 2 separately controlled lighting zones in space controlled by manual on/off from pushbutton device located near door. Main paddle button on 5 button keypad will control all light fixtures together on/off. Individual zone control thru small buttons #2-#5. Control of zone #1 On with small button #2, Off with small button #3. Control of zone #2 On with small button #4, Off with small button #5. Fixtures noted as night lighting (NL) to remain on at all times unless turned off at panel.

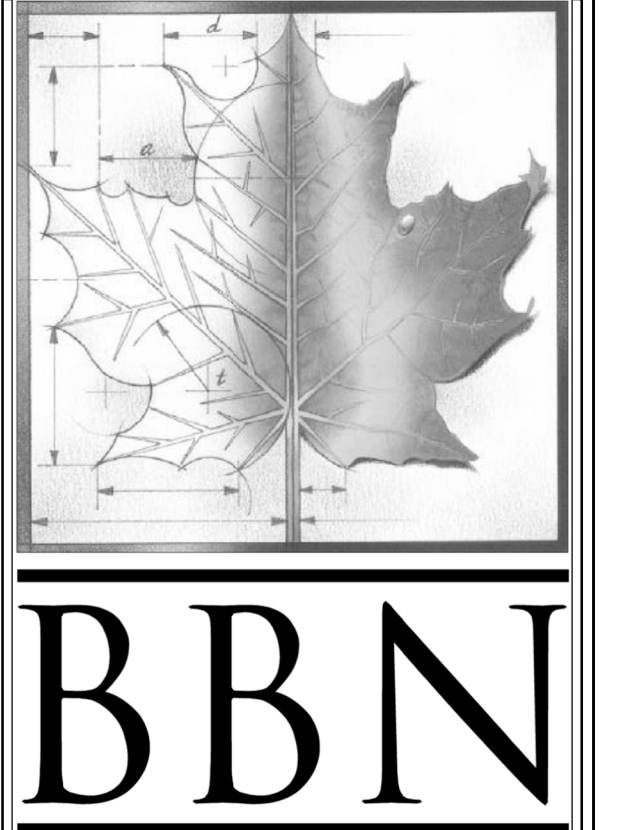
NOTES:
 1. See floor plan for quantity and location of occupancy sensors, room controllers, and keypad devices.



NORTH
FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

Job No. 15011-1

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 09/01/2017
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 PROFESSIONAL ENGINEER

Project Number:
 Date: **9/1/17**
 Project Name:
USD 320 MULTIPURPOSE BUILDING
 Project Address:
WAMEGO, KS

Sheet Title:
ELECTRICAL LIGHTING PLAN

Sheet:
E101
 OF: **7**

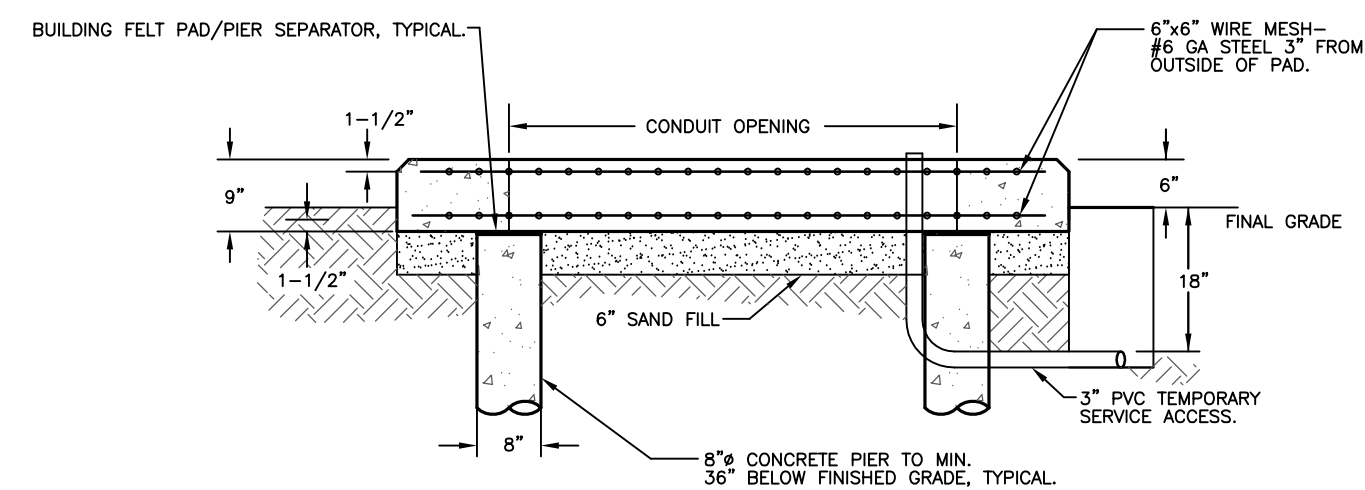
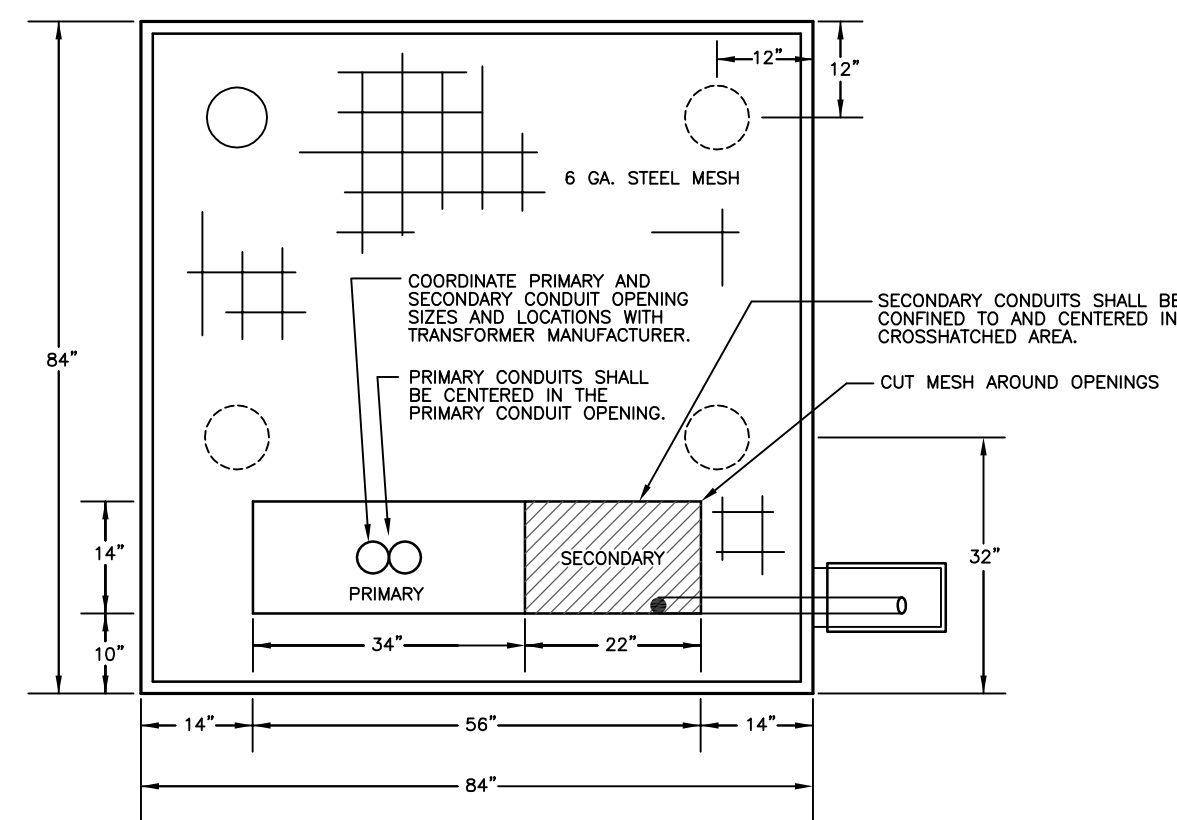
NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE CONNECTION REQUIREMENTS AND RESPONSIBILITIES WITH CITY OF WAMEGO AND PAY ALL ASSOCIATED FEES.

NEW ELECTRIC METER AND 120/208V SERVICE TRANSFORMER BY CITY OF WAMEGO. CONTRACTOR SHALL INSTALL EQUIPMENT PAD PER CITY OF WAMEGO REQUIREMENTS.

GROUND METER PER CITY OF WAMEGO REQUIREMENTS.

PROVIDE SCHEDULE 40 PVC CONDUIT WITH RMC 'SNEEPS' AND RISER BURIED MINIMUM 36" BELOW FINISH GRADE.

A ELECTRICAL RISER DIAGRAM
NO SCALE



B TRANSFORMER PAD DETAIL
1/2" = 1'-0"

PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel "P"			MIN A.I.C.: 10000			FEATURES:		
LOCATION: Jan/Mech 106			MCB Amps: 400			- Panelboard Construction		
VOLTS: 120/208			BUS Amps: 400			- Equipment Ground Bus		
CONFIGURATION: 3 Phase/4 Wire			ENCL.: NEMA 1			- Equal to Square D NQ		
MOUNTING: Surface						- Service Entrance Rated		
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B	
1	Ltg - Wrestling 109	2#12,#12G	20/1	2	Rcpt - Rm 109 NW	2#12,#12G	20/1	
3	Ltg - Wrestling 109	2#12,#12G	20/1	4	Rcpt - Rm 109 SW, Rm 108	2#12,#12G	20/1	
5	Ltg - Weights 105	2#12,#12G	20/1	6	Rcpt - Rm 109 NE, Exterior	2#12,#12G	20/1	
7	Ltg - Weights 105	2#12,#12G	20/1	8	Rcpt - Rm 109 SE	2#12,#12G	20/1	
9	Ltg - Rm 102-104,106-108	2#12,#12G	20/1	10	Rcpt - Rm 107	2#12,#12G	20/1	
11	Rcpt - Rm 105 SW	2#12,#12G	20/1	12	Rcpt - Rm 101-103, 106, Ext.	2#12,#12G	20/1	
13	Rcpt - Rm 105 NW	2#12,#12G	20/1	14	*Rcpt - Rm 105 EWC	2#12,#12G	20/1	
15	Rcpt - Rm 105 NE, Exterior	2#12,#12G	20/1	16	Rcpt - Rm 104	2#12,#12G	20/1	
17	Rcpt - Rm 105 SE	2#12,#12G	20/1	18	HHW-A	2#12,#12G	20/1	
19	Rcpt - Rm 105 NW Ded.	2#12,#12G	20/1	20			110	
21	Rcpt - Rm 105 W Mid. Ded.	2#12,#12G	20/1	22	RTU-1	3#2,#6G	3	
23	Rcpt - Rm 105 SW Ded.	2#12,#12G	20/1	24			100	
25	Rcpt - Rm 105 SE Ded.	2#12,#12G	20/1	26	RTU-2	3#3,#8G	3	
27	Rcpt - Rm 105 E Mid. Ded.	2#12,#12G	20/1	30			3	
29	Rcpt - Rm 105 NE Ded.	2#12,#12G	20/1	32	Fire Alarm Control Panel	2#12,#12G	20/1	
31	CF-1, CF-2	2#12,#12G	15	34	Rcpt - Rm 106 Data Rack	2#12,#12G	20/1	
33				36	Rcpt - RTU-1, RTU-2	2#12,#12G	20/1	
35	CF-3, CF-4	2#12,#12G	15	38	Spare		20/1	
37			2	40	Spare		20/1	
39	Ltg - Exterior	2#12,#12G	20/1	42	Spare		20/1	
41	Spare		20/1	44	Spare		20/1	
43	Spare		20/1	46	Spare		20/1	
45	Spare		20/1	48				
47	Spare		20/1	50				
49				52				
51				54				
53								

* - Provide with GFCI protected breaker.

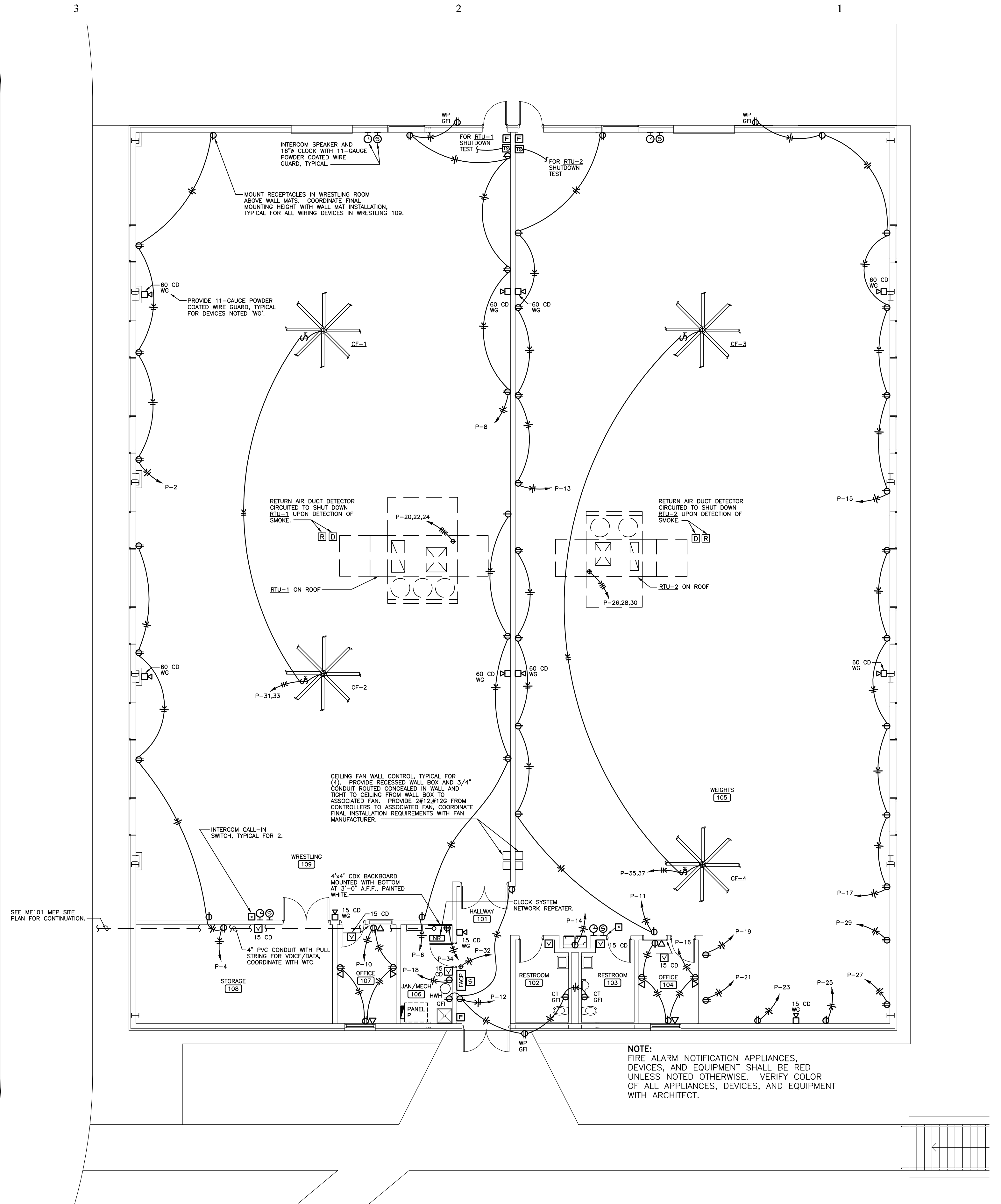
FIRE ALARM SYSTEM NOTES

- Provide an addressable fire alarm system in the building.
- Provide all equipment, circuitry, installation labor and programming for a complete and fully functional system in accordance with the applicable sections of NFPA 72, the National Electrical Code, 2012 International Building Code, 2012 International Fire Code and the supplying manufacturer's recommendations.
- See specifications for additional requirements.

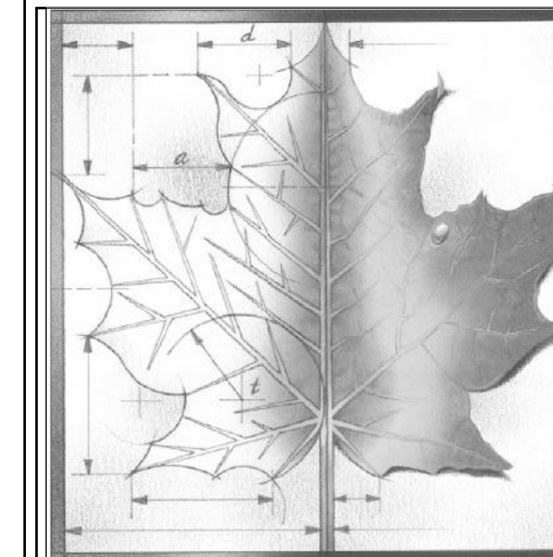


FLOOR PLAN - POWER

1/8" = 1'-0"



NOTE:
FIRE ALARM NOTIFICATION APPLIANCES, DEVICES, AND EQUIPMENT SHALL BE RED UNLESS NOTED OTHERWISE. VERIFY COLOR OF ALL APPLIANCES, DEVICES, AND EQUIPMENT WITH ARCHITECT.



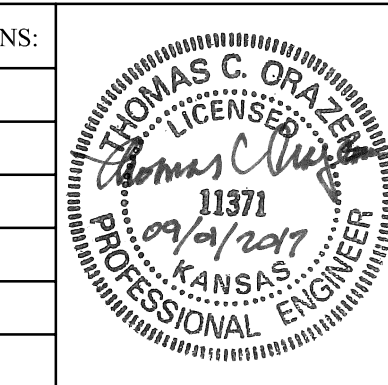
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Project Number:

Date: 9/1/17

Project Name:

**USD 320
MULTIPURPOSE
BUILDING**

Project Address:

WAMEGO, KS

Sheet Title:

**ELECTRICAL
POWER PLAN**

Sheet:

E201

OF:

7

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Manhattan, Kansas
Job No. 15011-1
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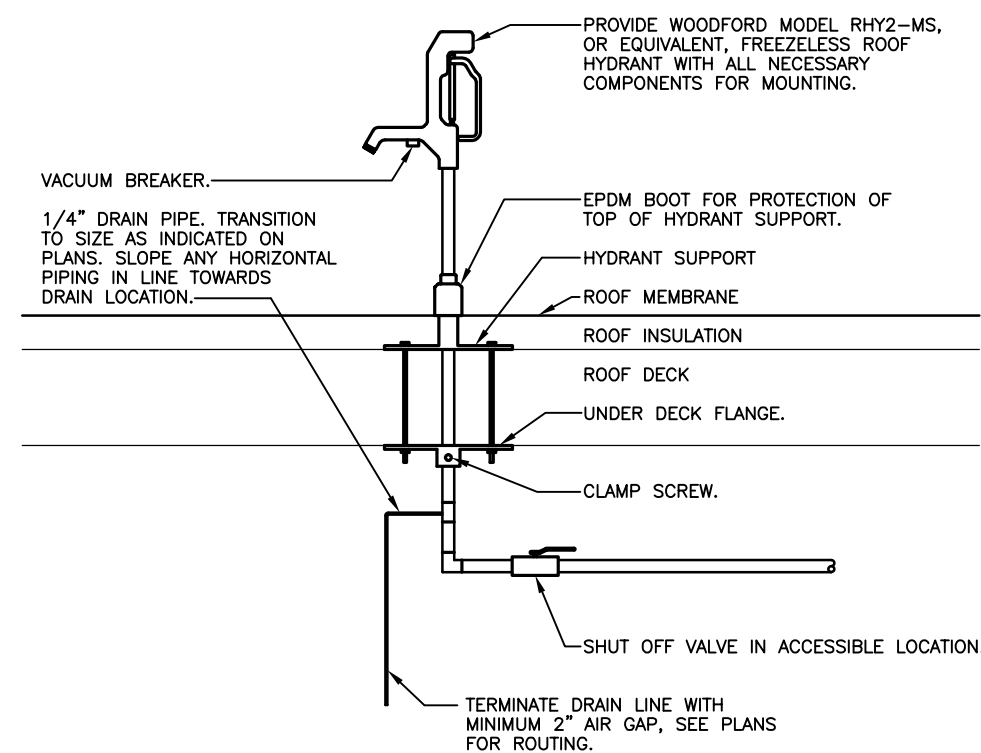
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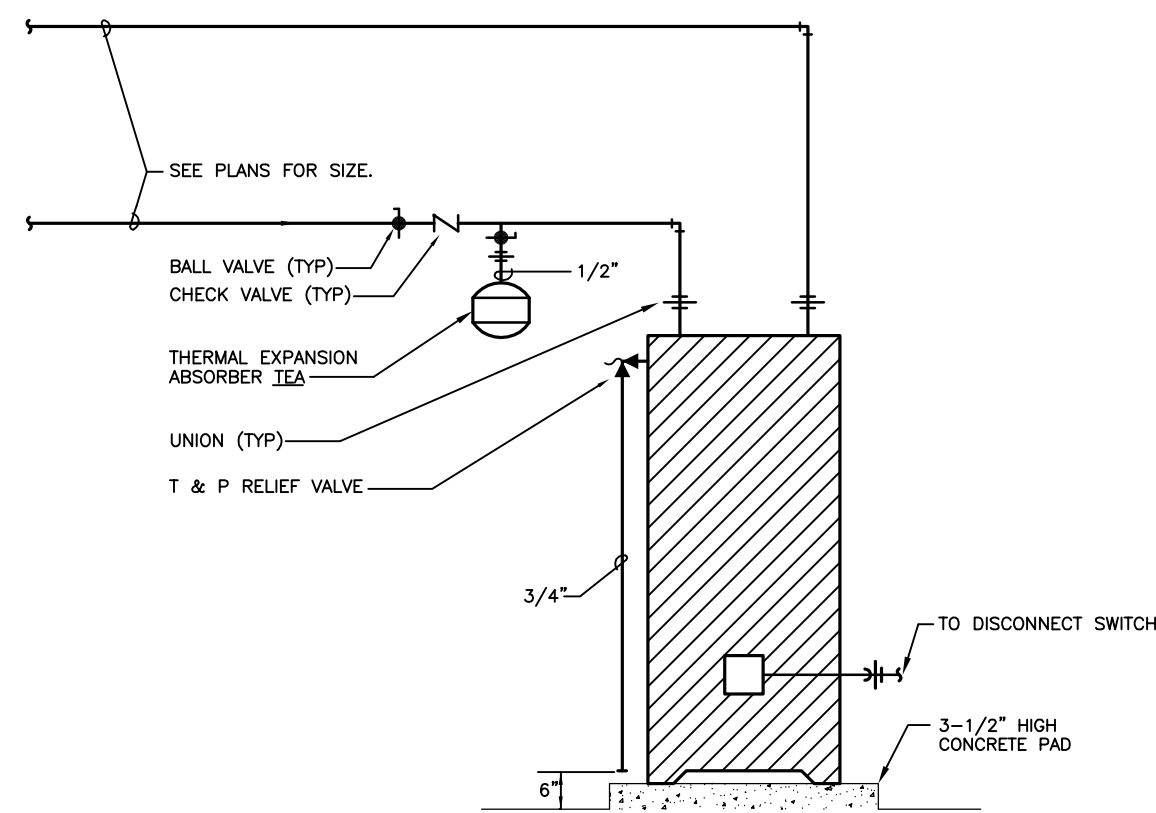
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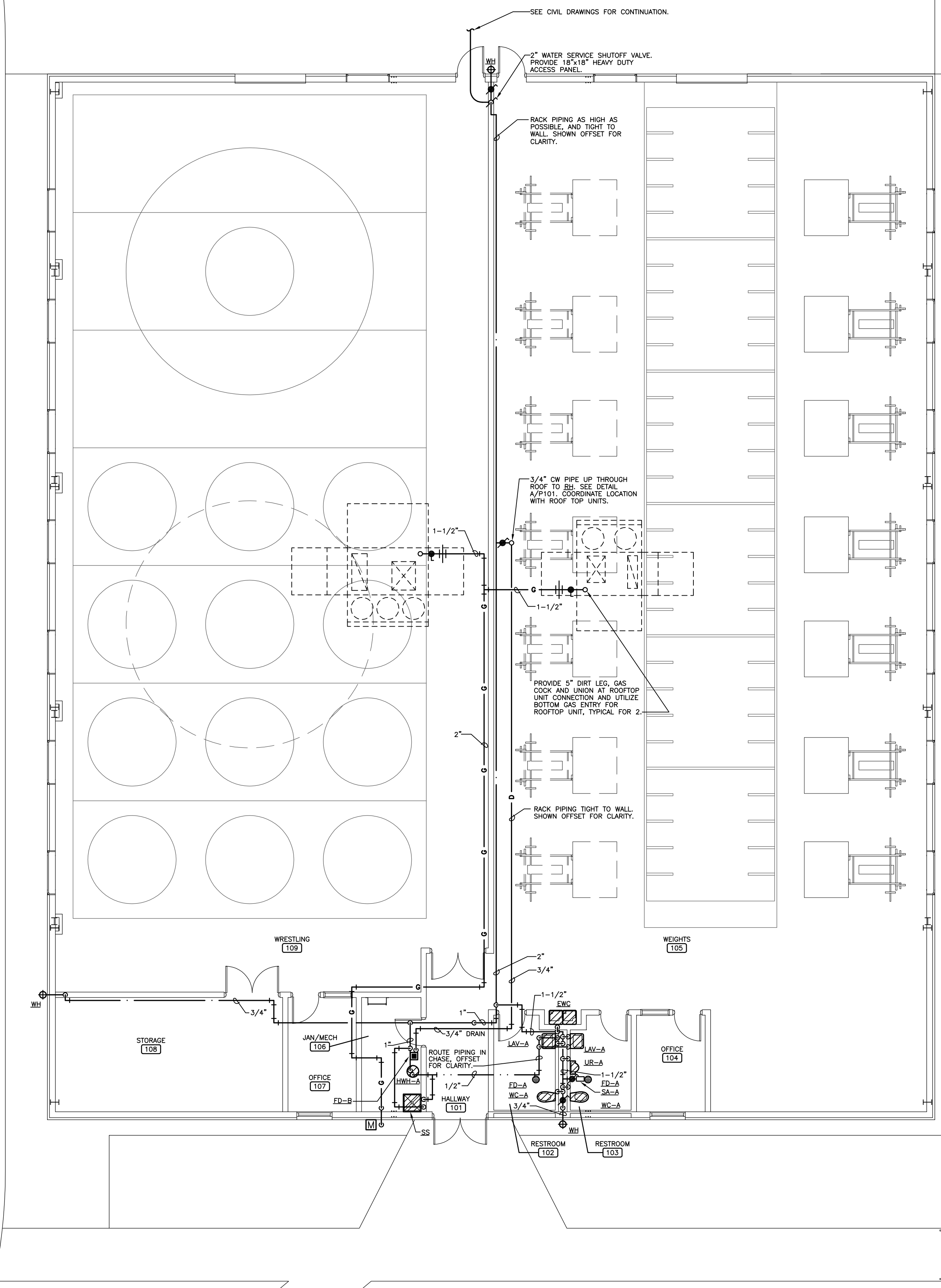
1



A ROOF HYDRANT DETAIL
NOT TO SCALE



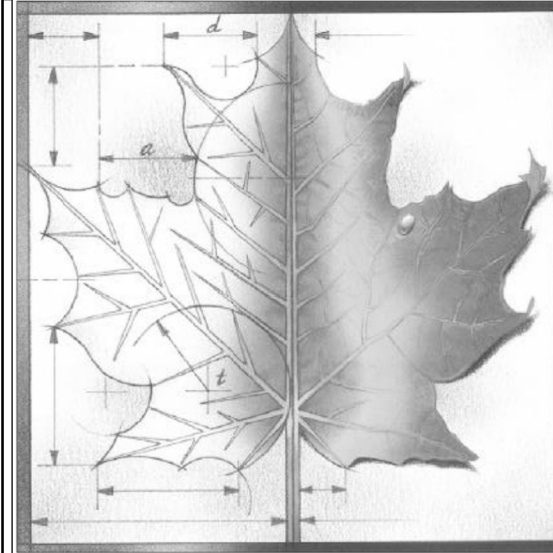
B HOT WATER HEATER DETAIL
NOT TO SCALE



FLOOR PLAN - WATER & GAS
1/8" = 1'-0"

PLUMBING FIXTURE MINIMUM ROUGH-IN SIZE SCHEDULE				
FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	HOT WTR.
FLUSH VALVE WATER CLOSET/WC-A	4"	2"	1"	---
URINAL/UR-A	2"	2"	3/4"	---
LAVATORY/LAV-A	2"	2"	1/2"	1/2"
SERVICE SINK/SS	3"	2"	1/2"	1/2"
WALL HYDRANT/WH	---	---	3/4"	---
FLOOR DRAIN/FD-A,B	2"	2"	---	---
ROOF HYDRANT/RH	---	---	3/4"	---

ose ORAZEM & SCALORA ENGINEERING, P.A.
Manhattan, Kansas
Job No. 15011-1
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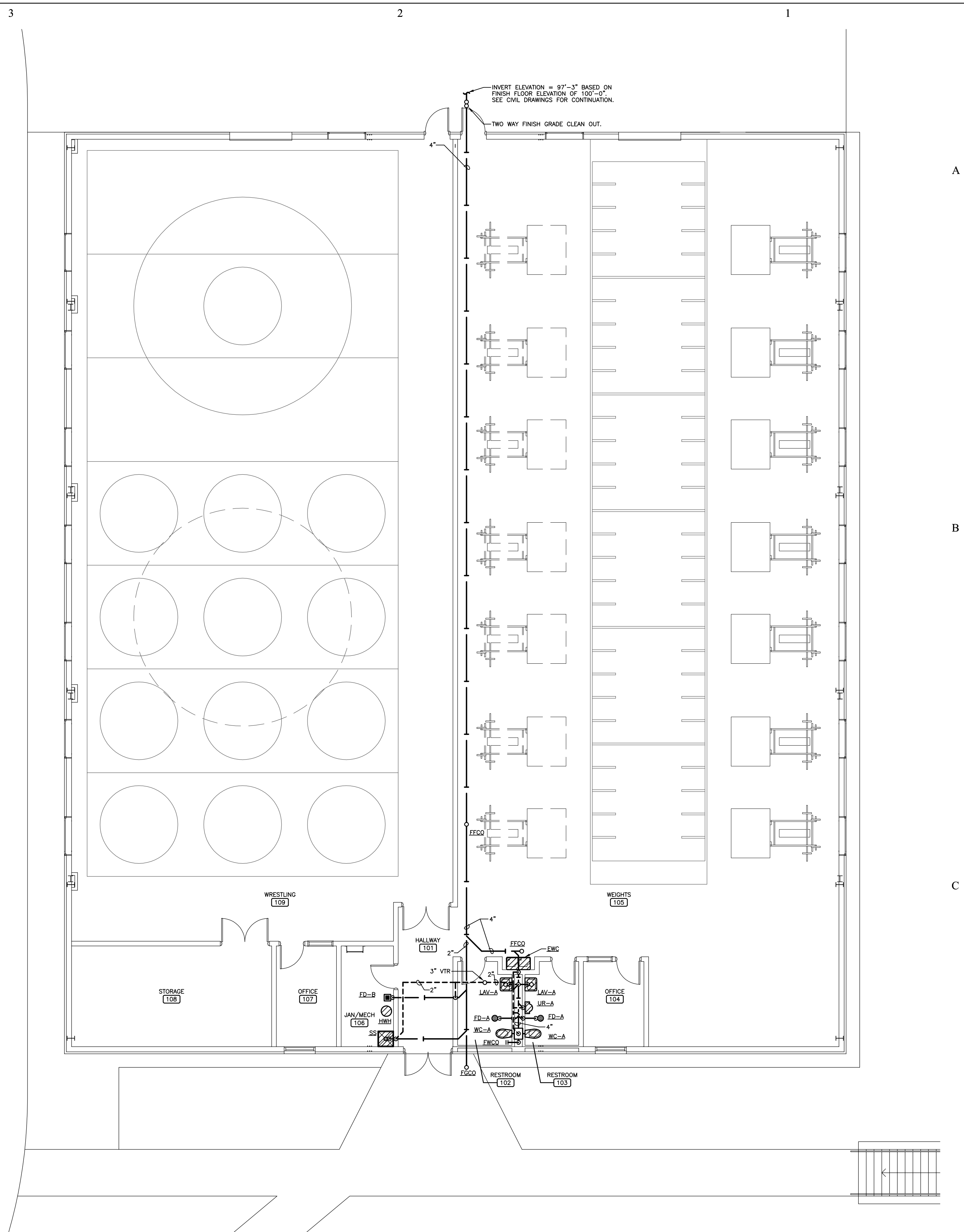
THOMAS C. ORAZEM
LICENSED PROFESSIONAL ENGINEER
11371
09/01/2017
KANSAS

Project Number:
Date: 9/1/17
Project Name: **USD 320 MULTIPURPOSE BUILDING**
Project Address: **WAMEGO, KS**

Sheet Title: **PLUMBING WATER & GAS PLAN**

Sheet: **P101**
OE: 7

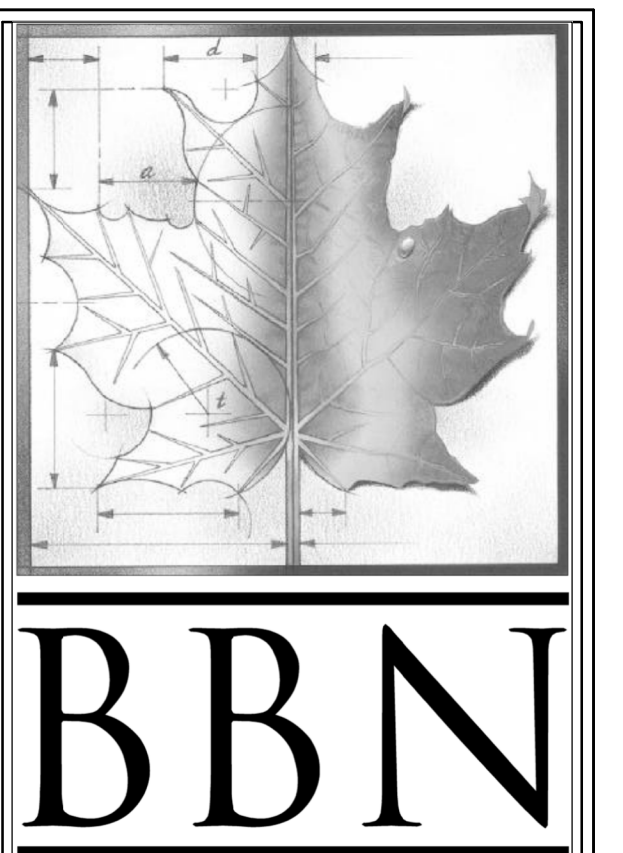
PLUMBING EQUIPMENT SCHEDULE	
General Notes:	
1. For fixtures marked (ADA), fixture, trim, mounting dimensions and installation shall meet the requirements of the 2010 Americans With Disabilities Act.	
2. Coordinate fixture locations with Architectural plans and elevations prior to rough-in.	
3. All fixtures shall be provided with vandal resistant trim.	
4. Provide carrier required for complete installation of fixture.	
WC-A	Zurn Z5615 vitreous china, wall mounted, elongated bowl, siphon jet flushing action, 1.6 GPF, 1-1/2" spud toilet, open front seat less cover, Sloan Regal 111-XL flush valve with vacuum breaker and angle stop, coated cast iron closet carrier with adjustable closet connection and with feet anchor bolted to floor. Fixture color: White. Mount with rim at 15 inches AFF. NO SUBSTITUTIONS FOR FLUSH VALVE.
UR-A	Zurn Z5750 vitreous china, wall hung, washout flushing action, extended rim, 1.0 GPF, 3/4" top spud, integral trap, wall hanger carrier with feet anchor bolted to floor, Sloan Regal 180-1 XL flush valve with vacuum breaker and angle stop. Fixture color: White. Mount with lip at maximum of 17" AFF. NO SUBSTITUTIONS FOR FLUSH VALVE.
LAV-A	Zurn Z5124 self-rimming round vitreous china lavatory, 19" outside diameter, front overflow. Trim with Zurn Z81101-XL-3M 4" centerset faucet with 4" spout, 0.5 gpm flow control, grid drain, indexed hot or cold 2-1/2" metal lever handles, Dearborn supplies with stops and escutcheon plate, Dearborn #760W 17 ga. offset tailpiece and 1-1/4" cast brass P-trap with cleanout plug. Fixture color: White. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi Lav-Guard manufactured by Truebro Inc.
EWCA (ADA)	Halsey Taylor #HTHB-HACGB two-level, lead free, wall hung electric drinking fountain with front mounted push bars for water control, single water chilling unit with capacity to cool 8.0 GPH from 80 degrees F to 50 degrees F at 90 degrees F room temperature, with Refrigerant 134a, and single plumbing and electrical rough-in. Tops shall be stainless steel, frame shall be heavy duty welded steel with beige steel cabinet. Provide with supply stops and 1-1/4" Dearborn 17 gauge cast brass P-trap with cleanout plug. Electrical characteristics: 120 volt/1 phase, 4.8 F.L.A. Provide with bottle filling station with 1.1 GPM fill rate.
FD-A	Floor drain for finished areas - Wade 1100-1 floor drain with clamping collar, adjustable, vandal proof, 6" satin nickel bronze top. Provide with ProSet Systems trap guard T25630-F.
FD-B	Floor drain for mechanical rooms - Wade 2350-27 cast iron with bottom outlet, 8" square top, square loose set grate, and removable sediment bucket. Provide with ProSet Systems trap guard T25630-F.
WH-A	Wade W-8600 non-freeze wall hydrant, cast bronze with satin bronze face, 3/4" inlet and brass casing of sufficient length to extend through walls as required to place valve inside building. Valve rod and seat washer shall be removable through the face of the hydrant. Hydrant shall be furnished complete with detachable T-handle and integral vacuum breaker.
RH-A	Roof Hydrant, Woodford RHY2-MS freezless hydrant for mounting on roof, 3/4" hose thread outlet with NIDEL 37HF field testable double check valve, cast iron hydrant support with under deck flange, mounting bolts, well seal, and EPDM boot.
SS	Fiat MSB2424 24" x 24" x 10" deep Molded Stone one piece service sink with drain and strainer. Trim with Zurn Z843M1-XL-CS faucet with top brace, service stops, check stops, indexed 2-1/2" hot and cold metal lever handles, bucket hook, vacuum breaker, and threaded hose end spout, polished chrome plated finish. Fixture color: White.
FWCO	Wade 8560-E cleanout tee with brass threaded plug and 8480-R round stainless steel coverplate secured to plug by countersunk screw.
FGCO	Finished grade cleanout, Wade 6000-Z cast iron cleanout with straight body and fitted with bronze countersunk plug, same size as soil pipe with ductile iron scoriated cover. Bring extra heavy cast iron riser pipe to grade. Terminate hub flush in center of 18"x18"x4" (18" x 36" x 4" for two way cleanout) concrete block when not located in concrete area.
FFCO	Finished floor cleanout, Wade 6000-Z-1 cast iron finished floor cleanout with spigot outlet, threaded adjustable housing, flanged ferrule with bronze threaded plug and vandal proof round secured nickel bronze scoriated top.
TEA	Thermal Expansion Absorber, Amtral ST-5 precharged hydropneumatic steel expansion tank with internal butyl diaphragm. 2.0 gallons total volume, 0.9 gal minimum expansion volume, 150 psig maximum working pressure.
HWH-A	State Model ES6 20 SOMT Midget electric water heater, 19.9 gallon storage, 1,650 watt element, 120 volt, 8 gallon per hour recovery at 90° F rise, and self-cleaning design.



NORTH
FLOOR PLAN - WASTE & VENT
 1/8" = 1'-0"

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