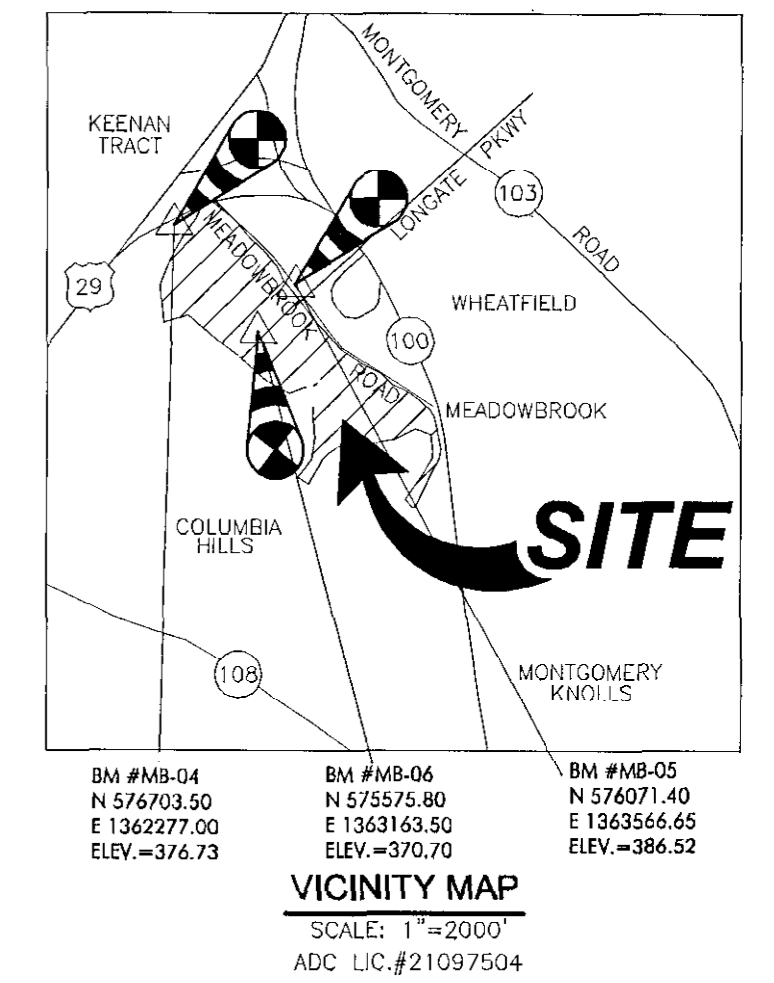
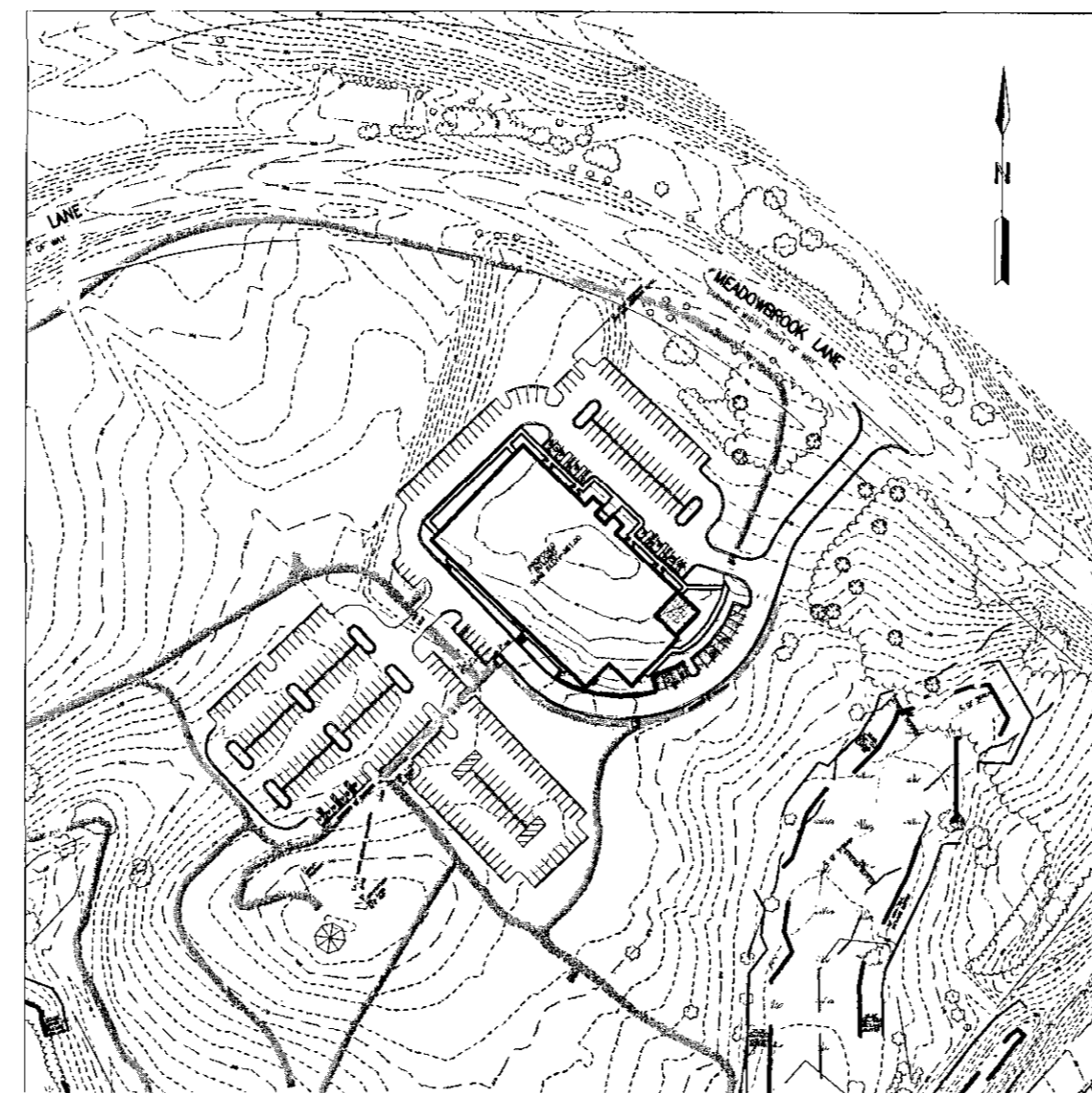


BID DOCUMENTS MEADOWBROOK PARK SPORTS CENTER



GENERAL SITE NOTES:

- DEVELOPER/ OWNER: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD, 21043 PHONE: (410) 313-4686
- WATER PLANNING CATEGORY: F09
- SEWERAGE PLANNING CATEGORY: 5750615
- SUBJECT PROPERTY IS LOCATED ON TAX MAP NO. 30, PARCELS 383 AND 387.
- PRESENT ZONING IS R-20 (RESIDENTIAL- SINGLE - 2 UNITS/ACRE), AS PER 10/18/93 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY: 76.37 ACRES.
CURRENT TAX MAPS SHOW SITE AREA TO BE 84.20 ACRES. 7.83 ACES WERE DEEDED TO THE MARYLAND STATE HIGHWAY ADMINISTRATION.
- PROPERTY REFERENCE:
DEED REFERENCE: 1257/335, 1260/137, 1272/497
- PARKING DATA:
 - INTENDED USE OF STRUCTURE: INDOOR AND OUTDOOR RECREATIONAL FACILITIES
 - NUMBER OF SPACES REQUIRED: 258 SPACES
 - NUMBER OF SPACES PROVIDED: 317 SPACES INCLUDING 8 ADA SPACES
 - TOTAL ONSITE: 317/ONSITE SPACES
- 20 SPACES PER BALL DIAMOND X 3=60
1 SPACE PER 300 SQ.FT. FUTURE INDOOR ROLLER HOCKEY RINK X 30,000 = 150
2 SPACES PER TENNIS COURT X 2 = 4
4 SPACES PER VOLLEYBALL COURT X 1 = 4
10 SPACES PER BASKETBALL COURT X 2 = 20
10 SPACES PER OPEN PLAY FIELD X 1 = 10
10 SPACES PER PLAYGROUND X 1 = 10
TOTAL = 258
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTOR AT (410) 313-1860 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK.
- THE STORMWATER MANAGEMENT REQUIREMENTS IS PROVIDED ON-SITE IN ACCORDANCE WITH 2000 MARYLAND STORMWATER DESIGN MANUAL. OWNERSHIP AND MAINTENANCE OF ALL SWM FACILITIES ARE THE COUNTY'S RESPONSIBILITY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS & SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS & SPECIFICATIONS IF APPLICABLE.
- PLAN DIMENSIONS ARE TYPICALLY TO FACE OF BUILDING, FACE OF PERIMETER CURB, CENTERLINE OF PIPES, OR TO THE PROPERTY LINE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN AND AERIAL SURVEY WITH TWO FOOT CONTOUR INTERVALS. AERIAL TOPOGRAPHY WAS PREPARED BY HOWARD COUNTY GIS DIVISION DATED 3-16-00 AND THE WETLAND FIELD SURVEY WAS PREPARED BY McCRONE INC. DATED 3-00. THE PROPERTY LINE SURVEY WAS PREPARED BY CB MILLER ASSOC. IN AUGUST 1999. TOPOGRAPHY WITHIN THE LOD PROVIDED TO McCRONE INC. BY HOWARD COUNTY.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. MB-04 N.576,703.50 E.1,362,277.00 AND MONUMENT NOS. MB-06 N.575,575.80 E.1,363,103.50.
- A FLOODPLAIN STUDY FOR THE SMALL UNNAMED TRIBUTARY ON THIS PROJECT WAS PREPARED BY McCRONE INC. DATED JUNE 2000, AND APPROVAL IS PENDING. THE REMAINDER OF THE FLOOD PLAN (RED HILL BRANCH) IS DELINEATED PER HOWARD COUNTY BUREAU OF ENGINEERING RECORDS.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- EXISTING UTILITIES ARE BASED ON INFORMATION AND PLANS PROVIDED BY HOWARD COUNTY GIS DIVISION.
- NON-TIDAL WETLANDS PRESENT ON SITE WERE DELINEATED BY STRAGHAN ENVIRONMENTAL SERVICES, INC.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- THE "WETLAND EASEMENT" AREAS ARE NOT THE LIMITS OF WETLANDS.
- FUTURE MSHA WETLAND AREAS ARE NOT BEING CREATED AS PART OF THIS PLAN. ANY WORK ASSOCIATED WITH THOSE AREAS WILL BE REVIEWED SEPARATELY BY THE MDE.
- NO LANDSCAPE SURETY IS REQUIRED SINCE THIS IS A HOWARD COUNTY DPW/DRP PROJECT.
- FOREST CONSERVATION FOR THIS PARCEL IS SATISFIED VIA AN APPENDIX B-4 DECLARATION OF INTENT, SINGLE LOT CLEARING LESS THAN 40,000 SQUARE FEET.
- RESOLUTION 30-2002 WAS APPROVED ON APRIL 1, 2002, GRANTING A REDUCTION IN THE SETBACK REQUIREMENT FROM 20-FOOT TO 0 FEET FOR THE CONSTRUCTION OF THE PROPOSED SIDEWALK IN MEADOWBROOK PARK AND FROM 50-FOOT TO 20 FEET AND 25 FEET FOR THE PARK'S TWO BASEBALL OUTFIELD FENCES.
- GRADING ON STEEP SLOPES OVER 25% AND OVER 20,000 SQUARE FEET IN CONTIGUOUS AREA WAS APPROVED ON MAY 23, 2002 AS WP-02-113 SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE PETITIONER SHALL COMPLY WITH ALL REVIEW COMMENTS ISSUED WITH THE SITE DEVELOPMENT PLAN (SDP-01-145) AND THE SITE DEVELOPMENT PLAN ITSELF, ONCE IT HAS RECEIVED SIGNATURE APPROVAL.
- MDE PERMIT FOR LOD WITHIN WETLANDS AND STREAM IS 02-NI-0092/200282981.



LOCATION MAP



EXISTING	LEGEND	PROPOSED
-----	2' CONTOURS	-----
-----	10' CONTOURS	-----
-----	TRIFFLINE	-----
-----	WATERLINE	-----
-----	SEWER LINE	-----
-----	CURB/EDGE OF PAVING (SEE DETAIL SHT. 20 of 27)	-----
-----	REVERSE CURB (SEE DETAIL SHT. 20 of 27)	-----
-----	WETLAND BOUNDARY	N/A
-----	WETLAND BUFFER	N/A
-----	STREAM	N/A
-----	PROPERTY LINE	N/A
-----	WETLAND SYMBOL	N/A
-----	L.O.D.	N/A
-----	EARTH DIKE	N/A
-----	ASPHALT PATHWAY	N/A
-----	STORM DRAIN	N/A
-----	PHASE L.O.D.	N/A
-----	100 YR. FLOODPLAIN	N/A
-----	25% STEEP SLOPES	N/A
-----	MAN MADE 25% SLEEP SLOPES	N/A
-----	PROPOSED CURB STOP	N/A
-----	HAUL ROAD	N/A
-----	PROPOSED SIDEWALK	N/A
-----	PROPOSED TREE PROTECTION / SILTFENCE	N/A
-----	PROPOSED SILTFENCE	N/A
-----	PROPOSED WATERLINE	N/A
-----	SUMP PIT	N/A
-----	AT GRADE INLET PROTECTION	N/A
-----	PROPOSED BENCH	N/A
-----	PROPOSED TRASH RECEPTACLE	N/A
-----	PROPOSED DRY SWALE	N/A

SHEET INDEX*			
SHT. #	SITE DESCRIPTION	A #	DOOR SCHEDULE/DETAILS
1	COVER SHEET	A 601	DOOR SCHEDULE/DETAILS
2	DEMOLITION PLAN	A 602	STOREFRONT & WINDOW DETAILS
3	SITE & FINAL GRADING PLAN	A 701	FINISH & STRIPING PLAN
4	SITE & GRADING PLAN SHT. 2	SHT. #	STRUCTURAL DESC.
5	SEDIMENT AND EROSION CONTROL PLAN & DETAILS	S 101	FOUNDATION AND SLAB ON GRADE PLAN
6	STORM DRAIN PROFILES	S 301	PLAN AND SECTIONS
7	LANDSCAPE PLAN	SHT. #	GENERAL NOTES, SECTIONS AND TYPICAL DETAILS
SHT. #	ARCHITECTURAL DESC.	M 01	H.V.A.C. (MECHANICAL) DESC.
G 101	GENERAL CODE REVIEW	M 02	MECHANICAL COVER SHEET
A 001	DRAWING INFORMATION	M 03	MULTI-SPORTS BUILDING FLR. PLAN - DUCTWORK LAYOUT
A 101	FLOOR PLAN	M 04	MULTI-SPORTS BUILDING FLR. PLAN - PIPING LAYOUT
A 102	REFLECTED CEILING PLAN	M 05	DETAILS SHEET
A 103	ROOF PLAN	SHT. #	DETAILS SHEET
A 201	EXTERIOR ELEVATIONS	E 01	ELECTRICAL DESC.
A 202	EXTERIOR ELEVATIONS	E 02	SYMBOLS, RISERS & SCHEDULES
A 301	BUILDING SECTIONS	E 03	FLOOR PLAN - LIGHTING
A 302	BUILDING SECTION	E 04	FLOOR PLAN - POWER
A 303	WALL SECTIONS	E 05	SCHEDULES & DETAILS
A 304	WALL SECTIONS	E 06	SCHEDULES & DETAILS
A 305	WALL SECTIONS	SHT. #	ELECTRICAL SITE PLAN
A 306	WALL SECTIONS	P 01	PLUMBING DESC.
A 401	FINISH SCHEDULE/DETAILS	P 02	PLUMBING FIXTURE SCHEDULE AND DETAILS
A 501	WALL SECTIONS	P 03	FLOOR PLAN - DUCTWORK LAYOUT
A 502	SECTION DETAILS	P 04	FLOOR PLAN - PIPING LAYOUT
A 503	SECTION DETAILS	P 05	PARTIAL FLOOR PLANS PLUMBING
3A	FINAL GRADING PLAN		LP GAS, SANITARY AND WATER RISER DIAGRAMS

AREA OF PARCEL	76.37 AC./3,326,677.20 S.F.
FLOODPLAIN AREA	34.80 AC./1,515,934.35 S.F.
DISTURBED AREA	33.80 AC./1,472,445.5 S.F.
PRESENT ZONING	R-20
EXISTING USE	PASSIVE PARK
BUILDING COVERAGE (EX.)	0.02 AC./955.43 S.F.
STORAGE BUILDING (TO BE REMOVED)	0.02 AC./830.66 S.F.
PROPOSED USE	RECREATIONAL PARK

ADDRESS CHART

PARCEL NUMBER	STREET ADDRESS
383 & 387	5001 MEADOWBROOK LANE

McCRONE
ENGINEERING ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
30 RIDGELY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 267-8821
Fax (410) 267-9932
ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Chief, Bureau of Engineering: *Robert J. Egan* 3/10/08

PROJECT	SECTION/AREA	MAP NO.			
MEADOWBROOK PARK	N/A	MAP 30 PARCELS 383 & 387			
PLAT NO.	GRID NO.	ZONE	TAXZONE	ELEC. DIST.	CENSUS TR.
N/A	5	R-20	2	2	602302
WATER CODE	SEWER CODE				
F09	5750615				

DEPARTMENT OF RECREATION AND PARKS
HOWARD COUNTY, MARYLAND

Director: *Garth A. Arden* 8-9-08

PROJECT	SECTION/AREA	MAP NO.			
MEADOWBROOK PARK	N/A	MAP 30 PARCELS 383 & 387			
PLAT NO.	GRID NO.	ZONE	TAXZONE	ELEC. DIST.	CENSUS TR.
N/A	5	R-20	2	2	602302
WATER CODE	SEWER CODE				
F09	5750615				

OWNER/DEVELOPER INFORMATION

Robert J. Egan 3/10/08

OWNER/DEVELOPER:
HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MARYLAND 21043

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20199, EXPIRATION DATE 9/29/09.

Virginia R. Radd 2/29/08

DES:	J.S.	JDS	ADDENDUM 2	2/22/08
DRN:	J.S.			
CHK:	V.L.D.			
DATE:	MAY, 2001	BY:	No.	REVISION
DATE:		BY:	No.	REVISION

COVER SHEET

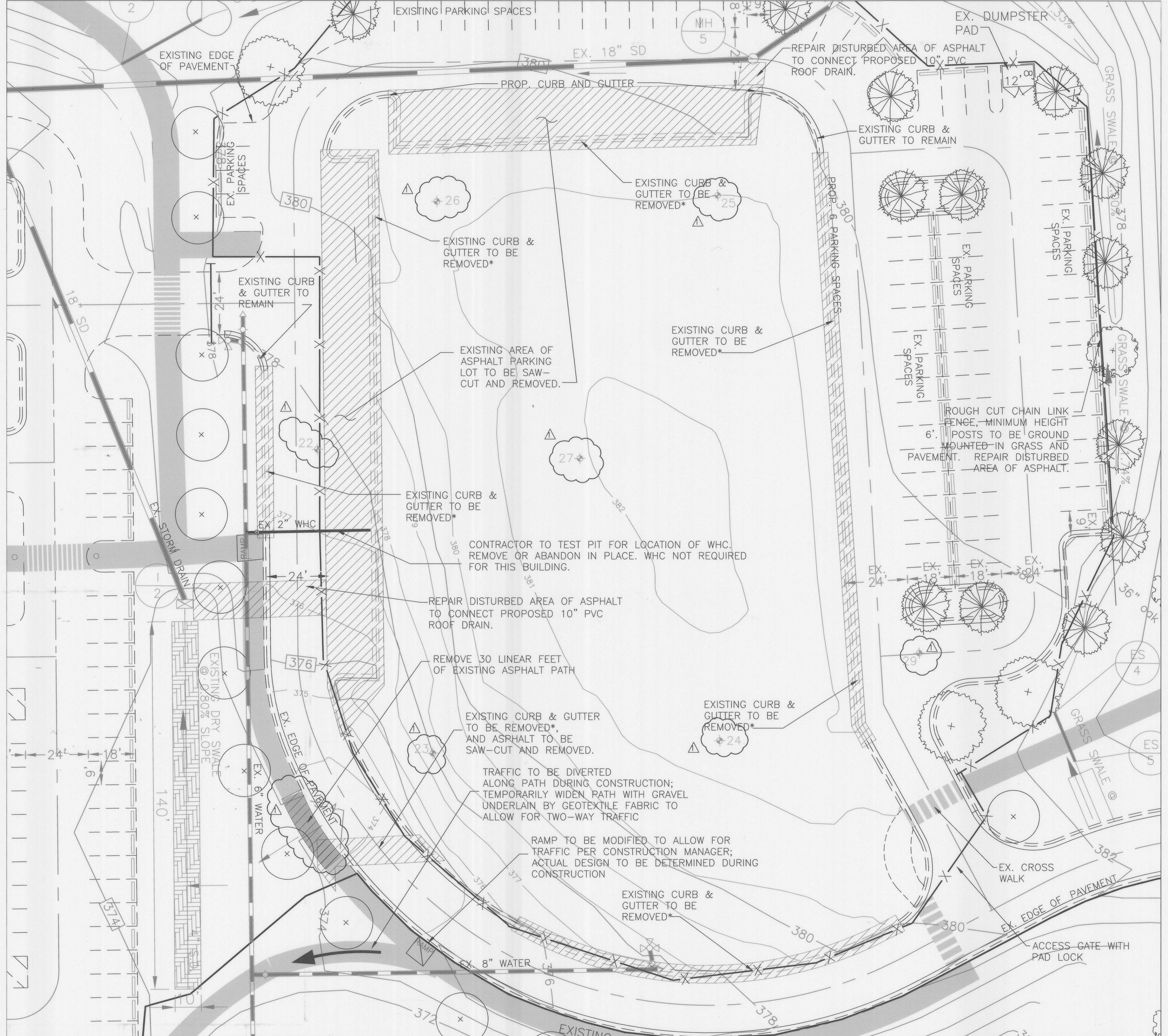
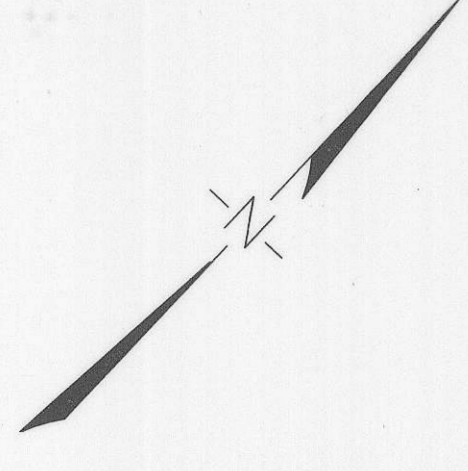
MEADOWBROOK PARK

TAX MAP 30
SECOND ELECTION DISTRICT

PROJECT # N-3105
BLOCK 5

PARCELS 383 & 387
HOWARD COUNTY, MARYLAND

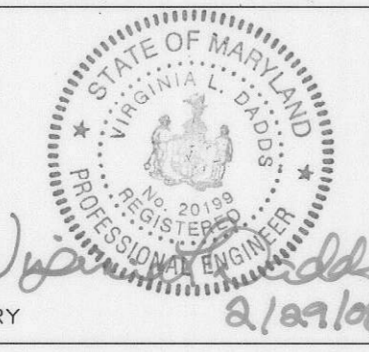
SCALE
AS SHOWN
SHEET
1 OF 7



*NOTE:
CURB TO BE REMOVED TO NEAREST
JOINT, ALIGN CUT WITH GUTTER PAN.

EXISTING
SITE PLAN
1" = 20'

McCRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
20 ROOSEVELT AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 287-8621
FAX (410) 287-9932



DES:	J.S.	JOS	▲	ADDENDUM 2	2/22/08
DRN:	J.S.				
CHK:	V.L.D.				
DATE:	MAY, 2001	BY	No.	REVISION	DATE

DEMOLITION PLAN

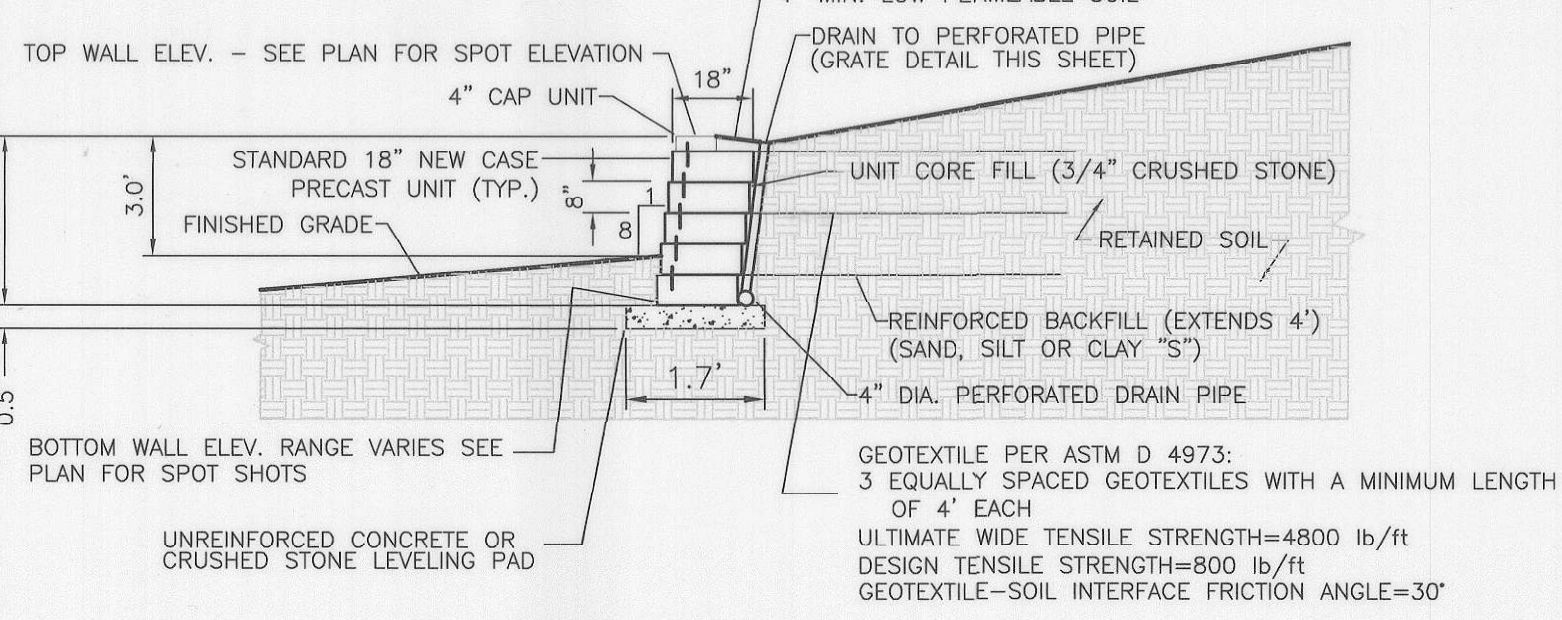
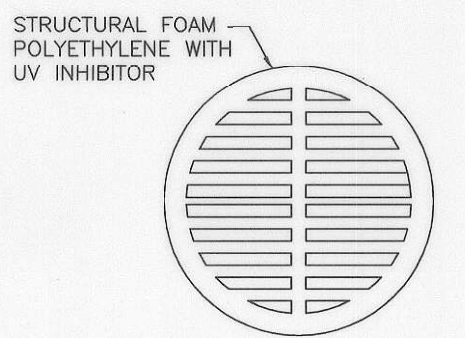
MEADOWBROOK PARK

TAX MAP 30 SECOND ELECTION DISTRICT
PROJECT #N-3105 BLOCK 5
PARCELS 383 & 382 HOWARD COUNTY, MARYLAND

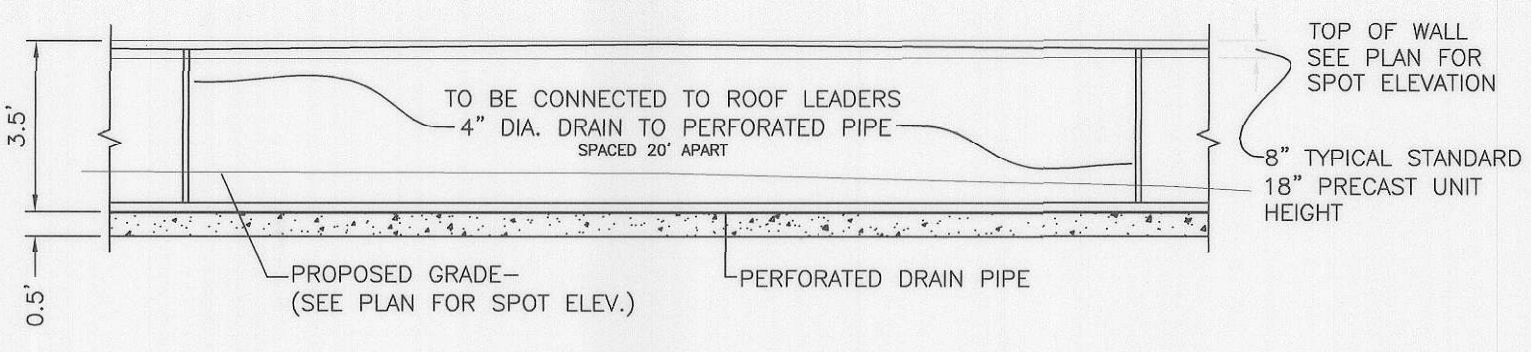
SCALE
1"=30'
SHEET
2 OF 7
SDP-01-145

Plot Date and Time: Feb 27, 2008 - 11:22am

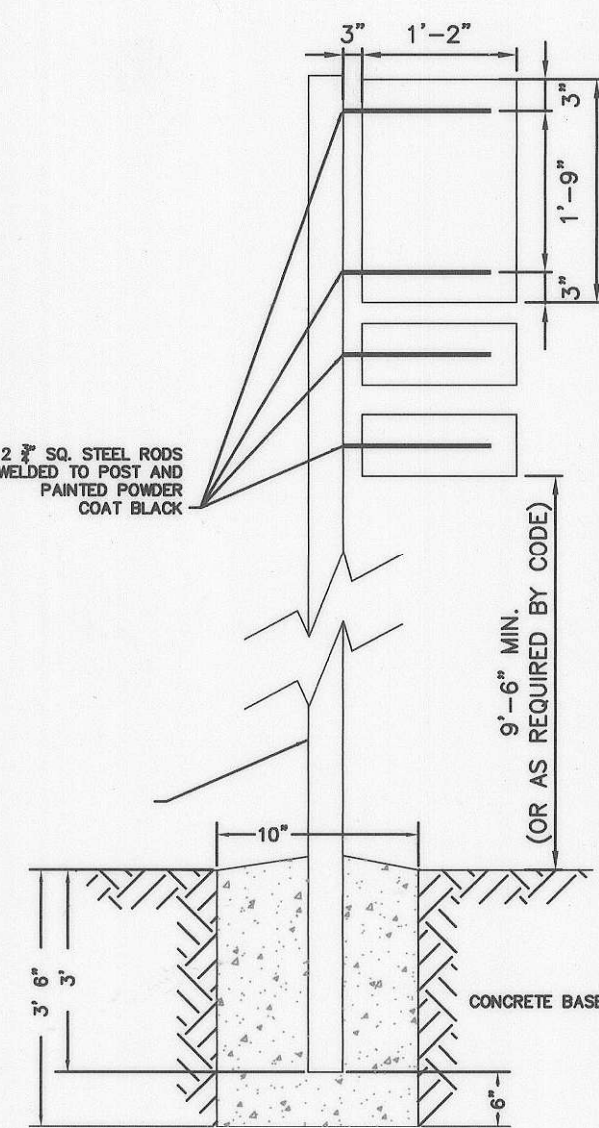
CADD FILE: \\civildco1\users\j\Projects\C-2010081 - Meadowbrook\Final Development\New Folder_11-06.dwg\02_DEMO_PLAN.dwg



TYPICAL REINFORCED WALL SECTION
NOT TO SCALE



TYPICAL REINFORCED WALL ELEVATION
NOT TO SCALE



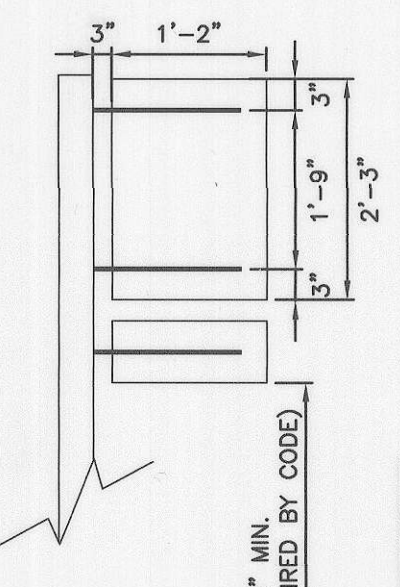
HANDICAP PARKING SIGN
N.T.S.



\$150.00 FINE



LOW-EMITTING & FUEL-EFFICIENT VEHICLE PARKING SIGN
N.T.S.



\$150.00 FINE

NO PARKING SIGN
N.T.S.



RESERVED PARKING

VAN-ACCESSIBLE

\$150.00 FINE

BUILDING COORDINATES

CORNER	NORTHING	EASTING
A	576,333.23	1,362,590.67
B	576,440.14	1,362,692.65
C	576,225.24	1,362,864.71
D	576,171.51	1,362,813.46

NOTE: THIS CONTRACT DOES NOT INCLUDE 1. MASS GRADING

NOTE: THIS CONTRACT INCLUDES 1. BUILDING CONSTRUCTION 2. PARKING AREA SURFACING 3. DEMO OF EXISTING CURB AND GUTTER 4. SIGNAGE 5. PROPOSED CURB AND GUTTER 6. PVC STORM DRAINS

NOTE: GRADING COMPLETED UNDER PREVIOUS CONTRACT. THE SITE EXISTS AT SHOWN PROPOSED GRADE.

NOTES

- SEE SHEET 1 FOR SITE LEGEND.
- ALL DIMENSIONS ARE TO FACE OF CURB.
- ALL CURB RADI ARE 6.0' UNLESS OTHERWISE SPECIFIED.
- STANDARD CURB AND GUTTER SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R 3.01.
- HANDICAP RAMPS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R 4.03 & HANDICAP RAMP DETAIL AS SPECIFIED ON SHEET 3A.
- ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-3.05.

NOTES:

- SIDEWALK TO BE SCRIBED IN 5'-0" MAXIMUM SQUARES.
- EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO BE MORE THAN 15' APART.
- 1/2" PREFORMED EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.
- CONCRETE TO BE MIN. NO.3.
- WHEN SIDEWALK ADJACENT TO CURB SIDEWALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED EXPANSION JOINT BETWEEN SIDEWALK AND CURB.
- ON LONGITUDINAL SIDEWALK GRADES OF 5% OR GREATER, A CONCRETE HEADER, 6" THICK AND 6" DEEP BELOW THE NORMAL 4" SIDEWALK THICKNESS SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE SIDEWALK AT INTERVALS OF 40 FEET. THE HEADERS SHALL BE PLACED AT THE EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.
- SIDEWALK WITH ADJACENT TO CURB SHALL BE 5'-0" MINIMUM EXCEPT SIDEWALK ADJACENT TO CURB IN 24"-36" BULBS MAY BE 4'-0" WIDE.
- SIDEWALK LOCATED 2' OR MORE FROM CURB MAY BE 4'-0" IN WIDTH WITH A 5'-0" PAVED SECTION PLACED 20' APART.
- 4'-0" SIDEWALK REQUIRES A PASSING AREA (SEE DETAIL R-4.01).

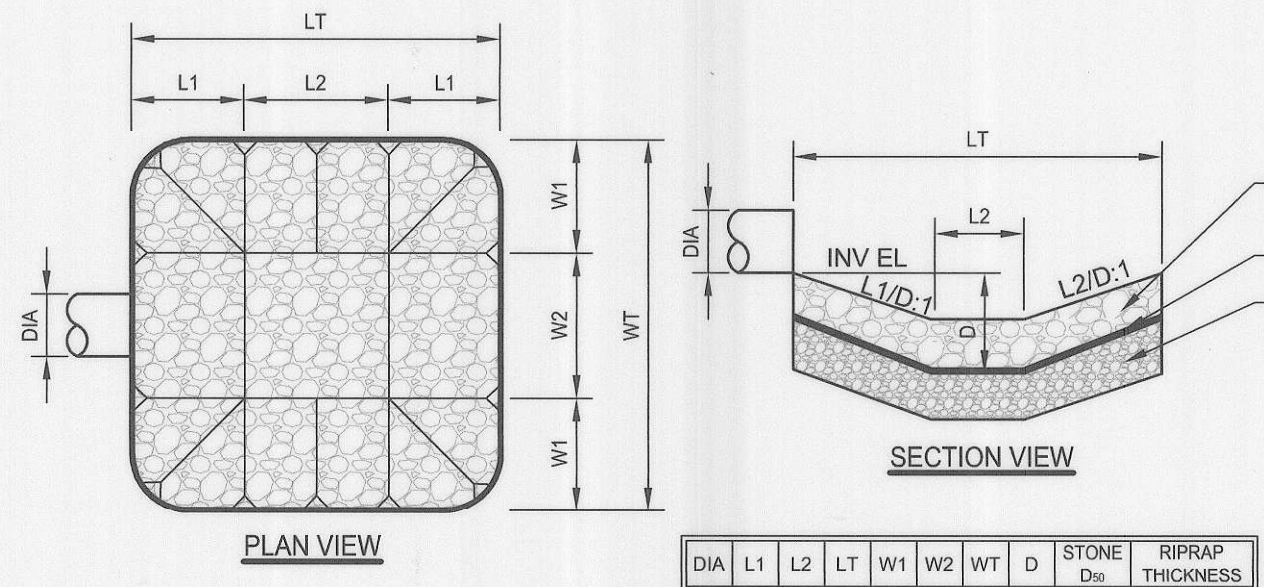
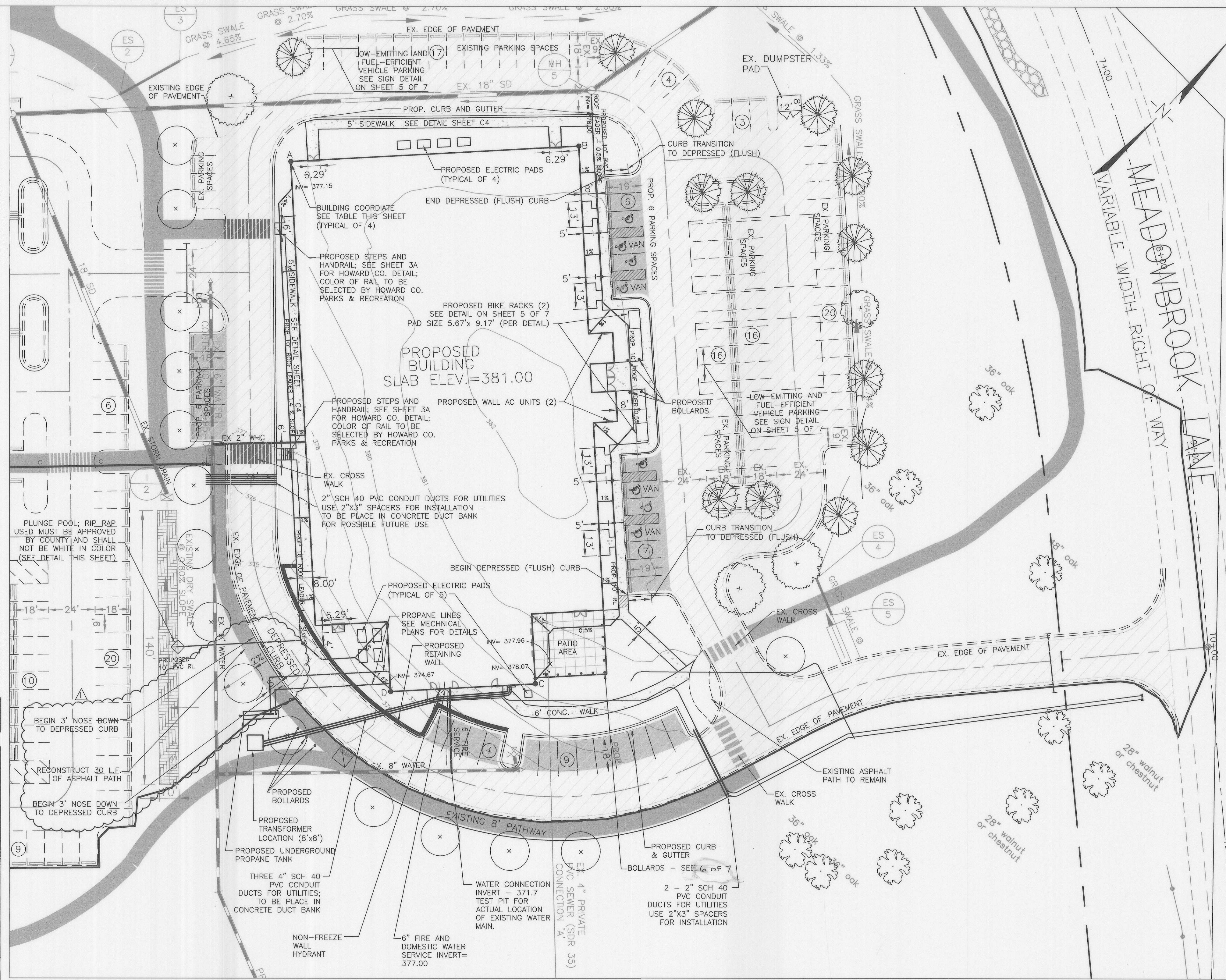
	<p>Concrete Sidewalk</p>	<p>Detail R-3.05</p>
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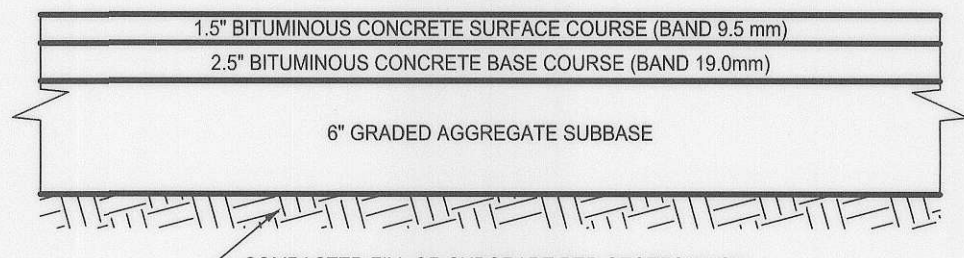
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
20 RIDGELY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 267-8071
Fax (410) 267-9932



SITE PLAN
1" = 30'



DETAIL - RIPRAP PLUNGE POOL
NOT TO SCALE



LIGHT PAVEMENT SECTION
NOT TO SCALE

LEGEND

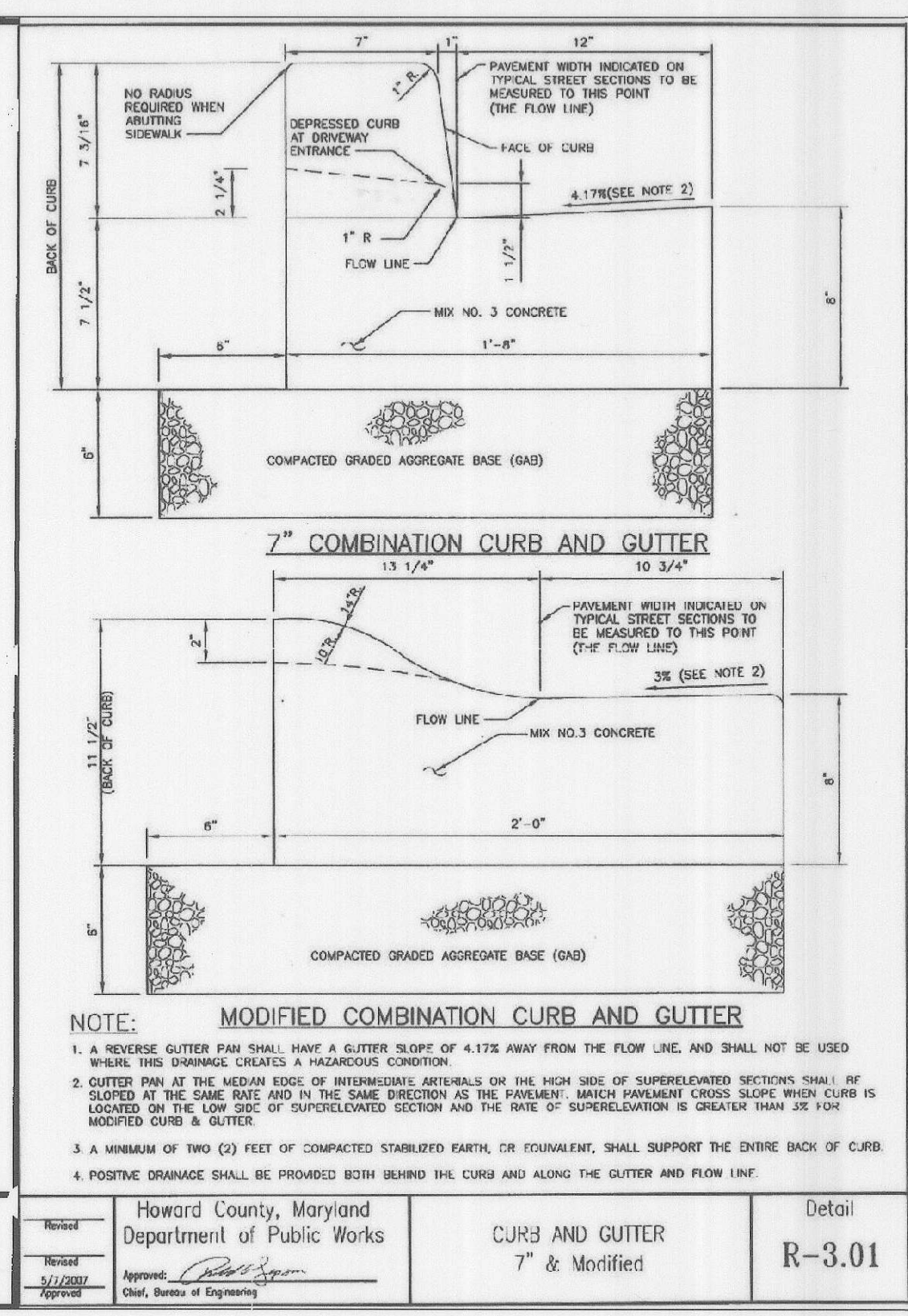
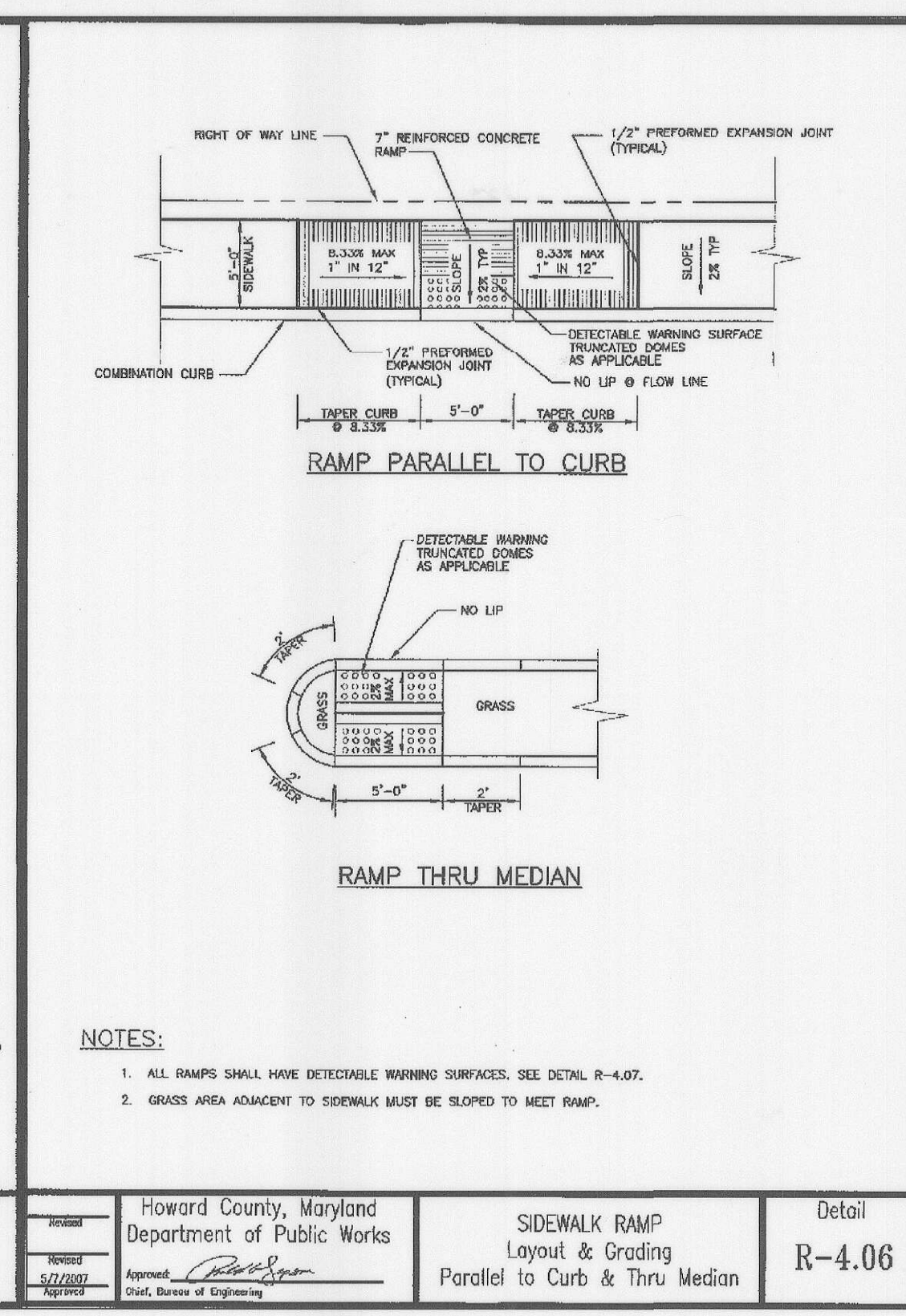
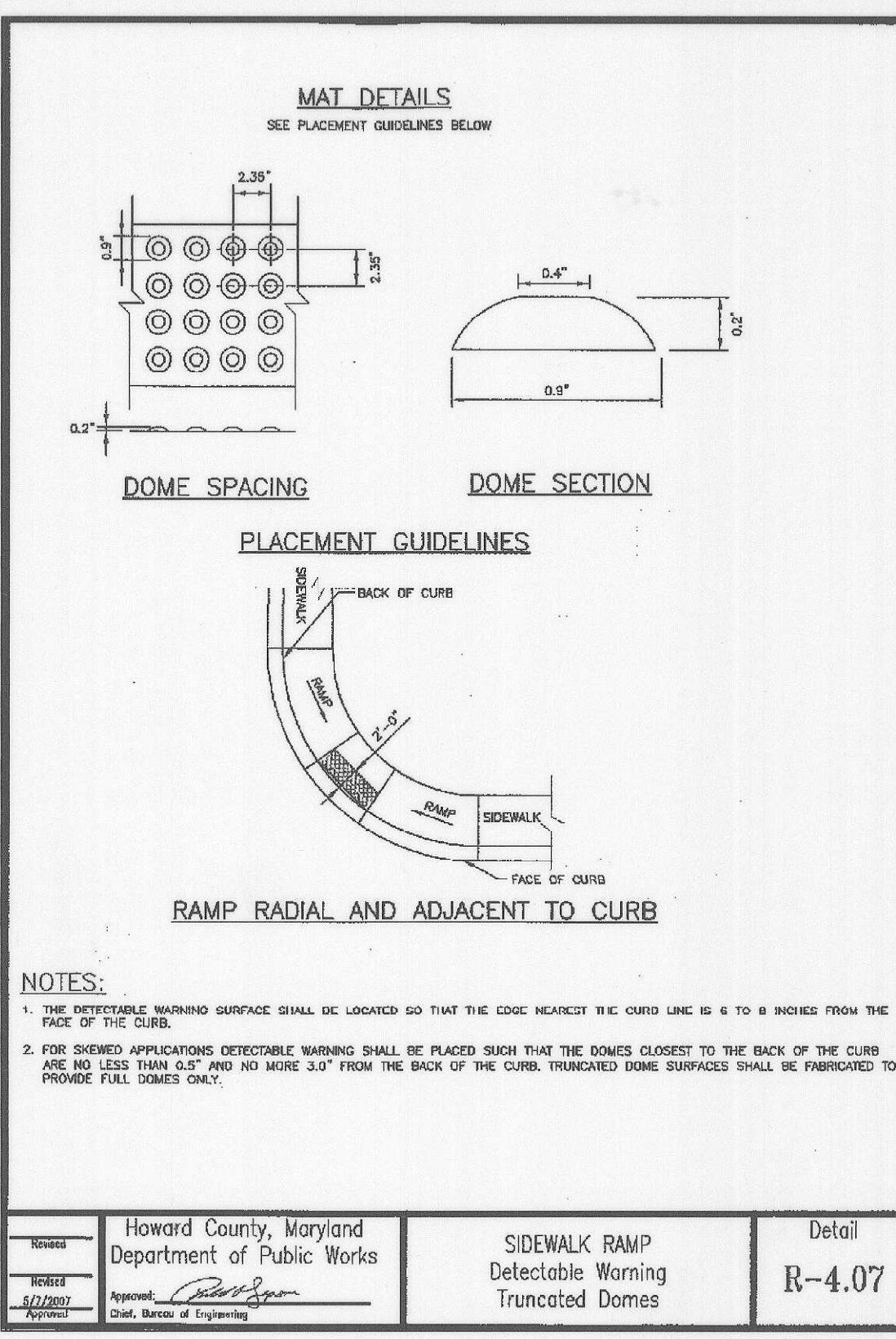
- PARKING SPACE SHADING REPRESENTS LIMIT OF NEW PAVEMENT
- REQUIRES SURFACE COURSE
- EXISTING PATHWAY

DES:	J.S.	JDS	ADDENDUM Z	2/22/08
DRN:	J.S.			
CHK:	V.L.D.			
DATE:	MAY, 2007	BY	No.	REVISION

SITE PLAN

MEADOWBROOK PARK

TAX MAP 30 SECOND ELECTION DISTRICT
PROJECT #N-3105 BLOCK 5
PARCELS 383 & 382 HOWARD COUNTY, MARYLAND



Howard County, Maryland
Department of Public Works

SIDEWALK RAMP
Detectable Warning
Truncated Domes

Detail
R-4.07

Howard County, Maryland
Department of Public Works

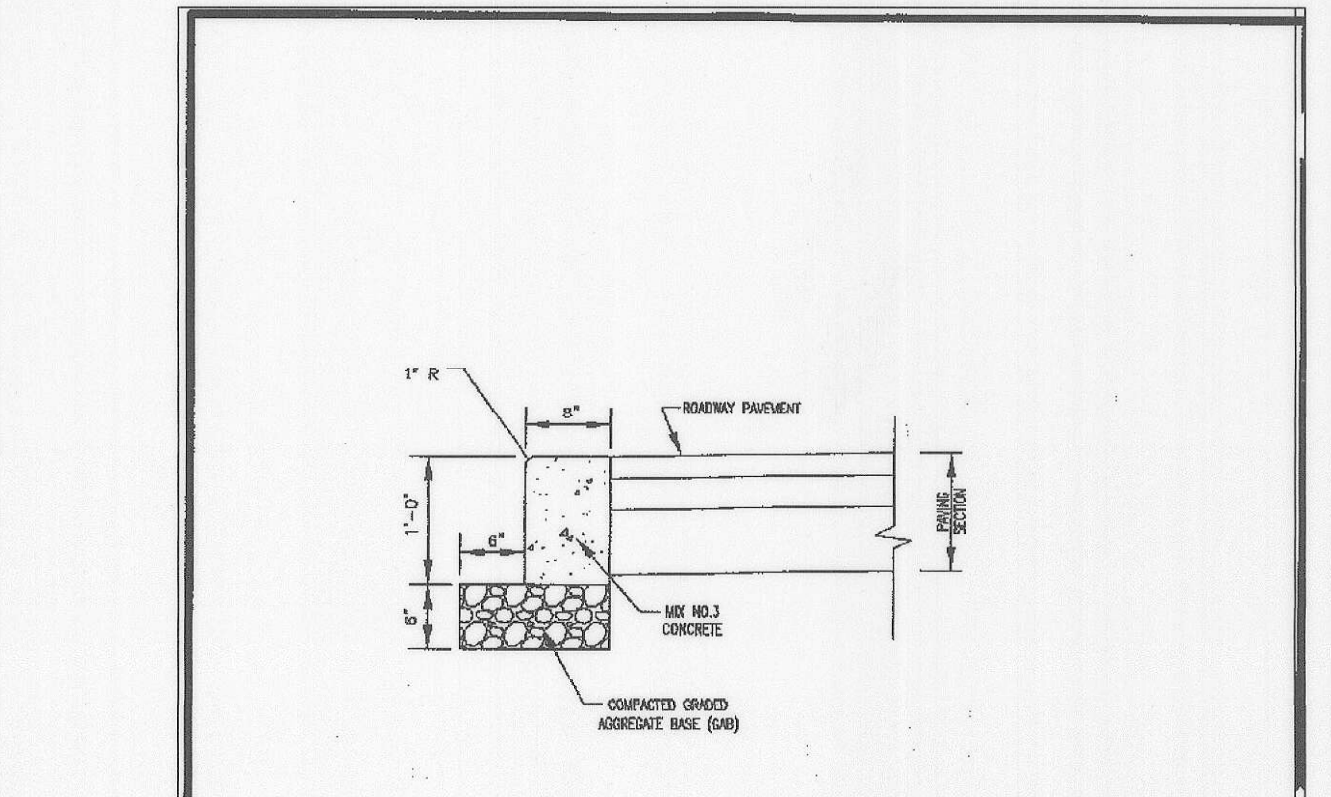
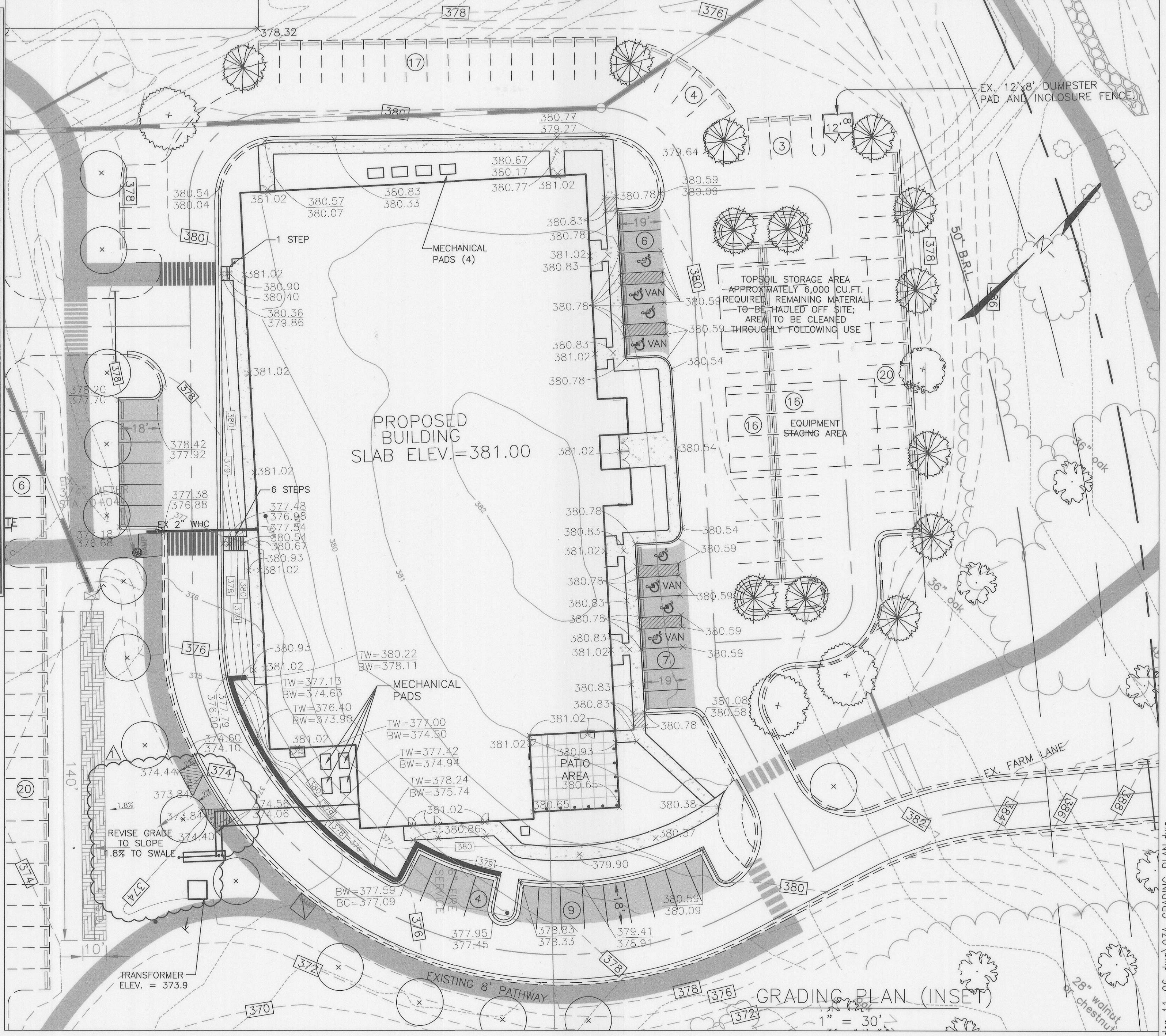
SIDEWALK RAMP
Layout & Grading
Parallel to Curb & Thru Median

Detail
R-4.06

Howard County, Maryland
Department of Public Works

CURB AND GUTTER
7" Modified

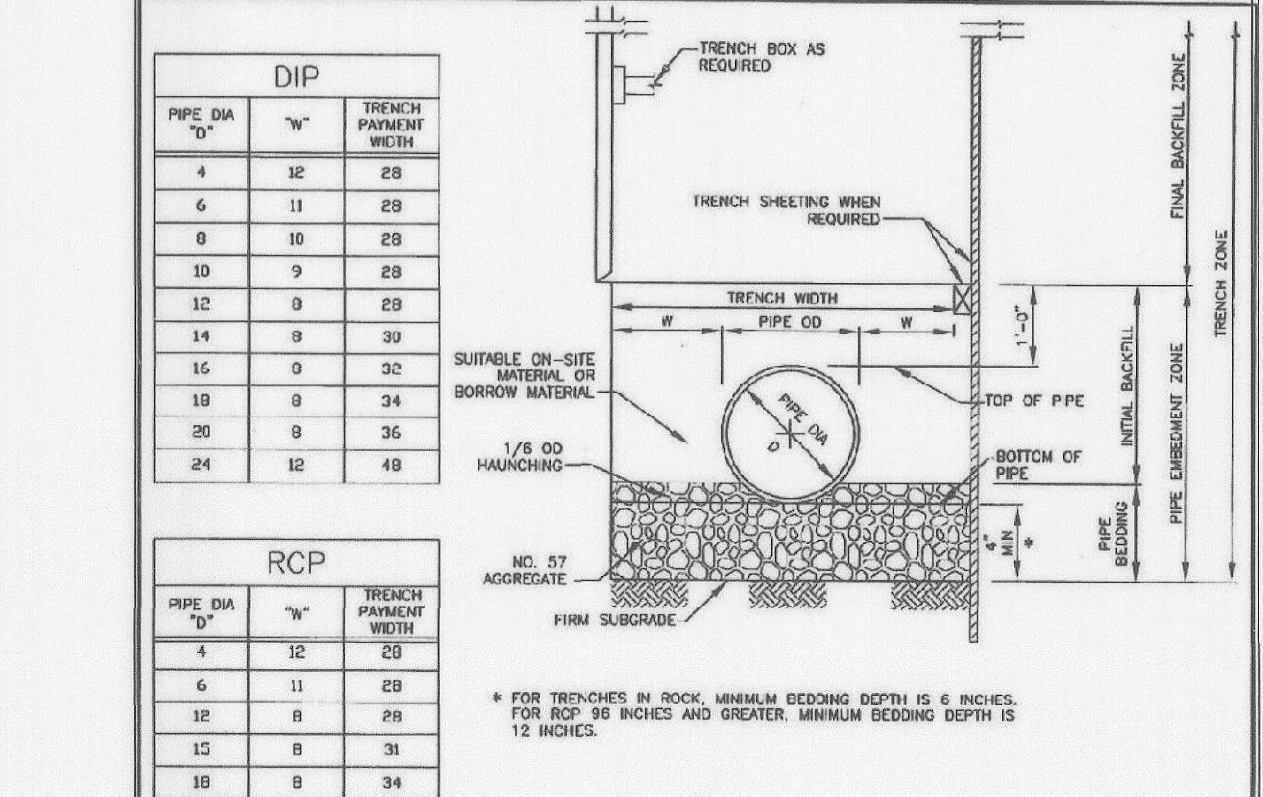
Detail
R-3.01



Howard County, Maryland
Department of Public Works

Curb
Flush

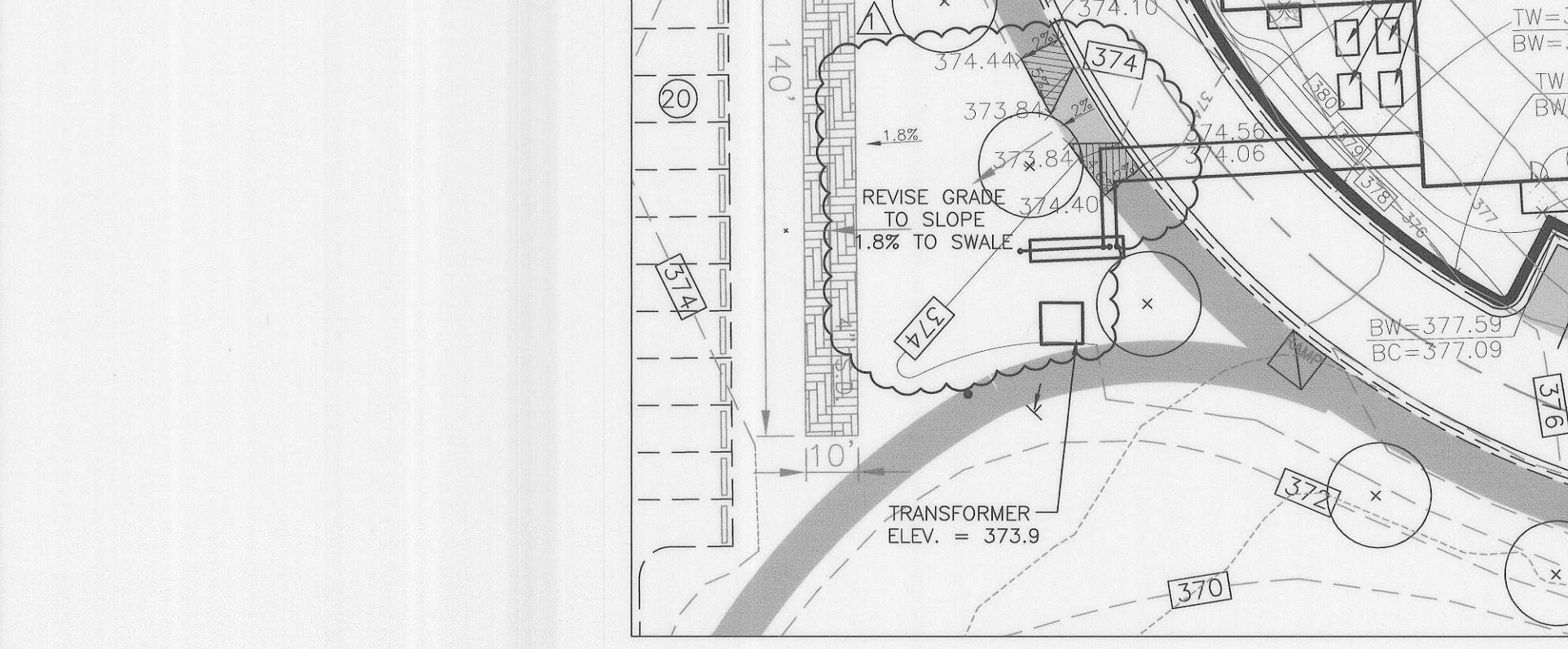
Detail
R-3.07



Howard County, Maryland
Department of Public Works

Pipe Trench
DIP & RCP

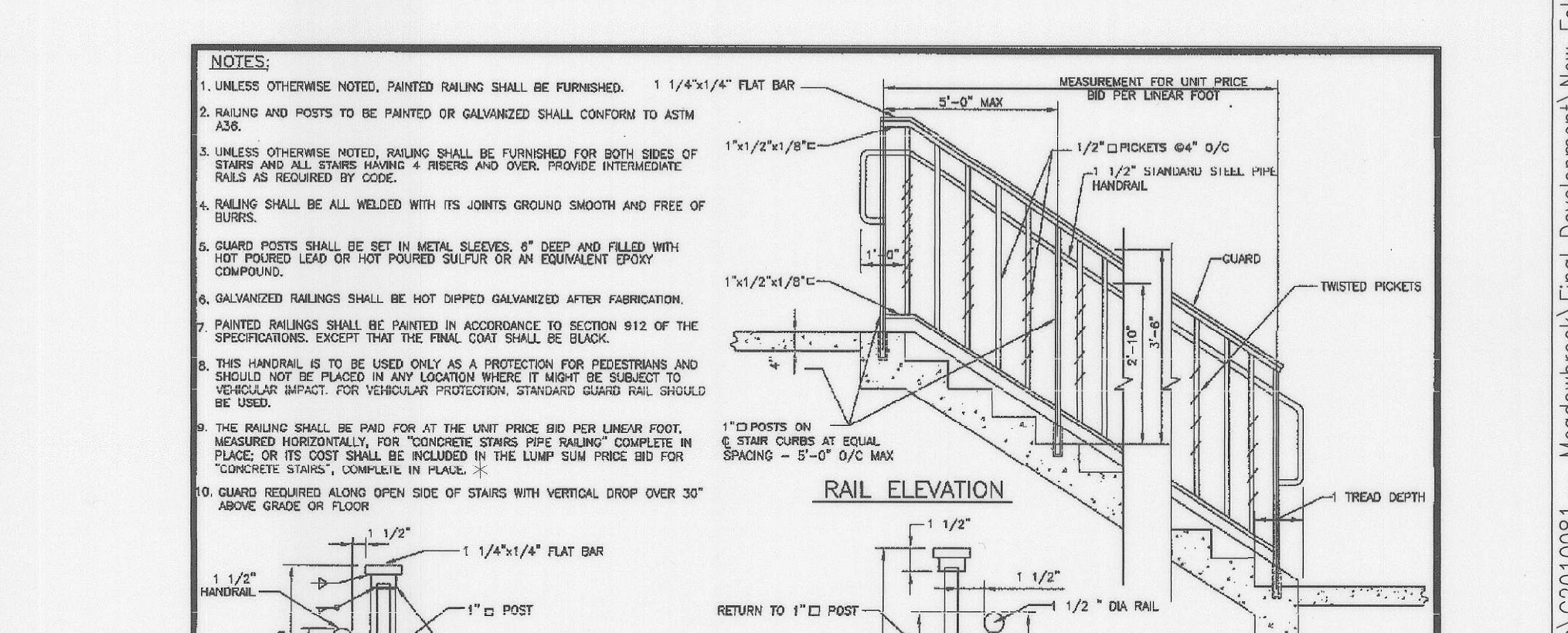
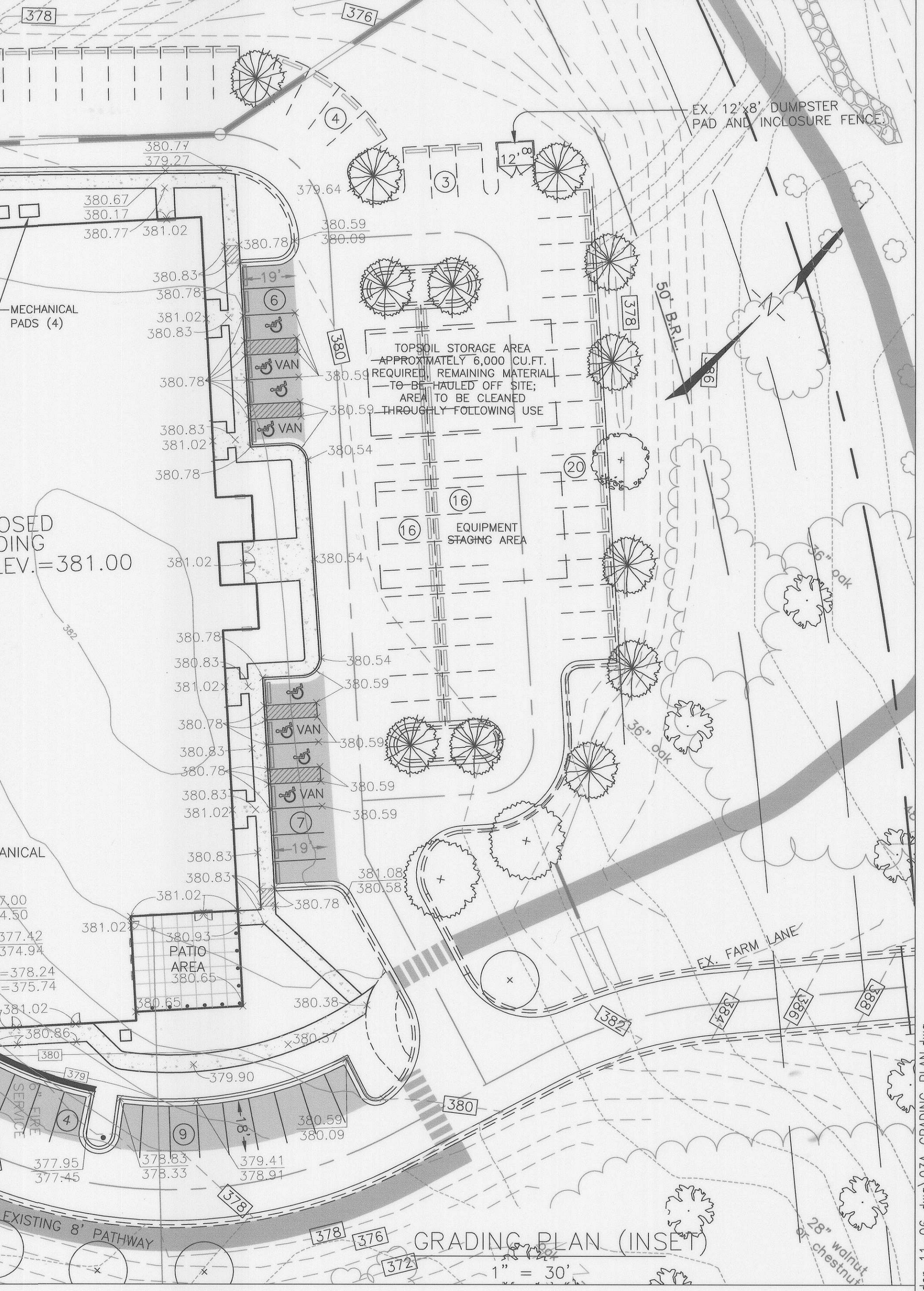
Detail
G-2.11



Howard County, Maryland
Department of Public Works

Concrete Stairs

Detail
G-7.01



Howard County, Maryland
Department of Public Works

Concrete Stairs
Ornamental Railing

Detail
G-7.03

McCRONE
ENGINEERING & ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
20 RIDGELY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 267-9821
Fax (410) 267-9932
ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

DES: J.S.
DRN: J.S.
CHK: V.L.D.
DATE: MAY, 2001

JDS
V.L.D.

ADDENDUM Z
2/22/08

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
No. 10910
V.L.D.

DES: J.S.
DRN: J.S.
CHK: V.L.D.
DATE: MAY, 2001

JDS
V.L.D.

ADDENDUM Z
2/22/08

FINAL GRADING PLAN

MEADOWBROOK PARK

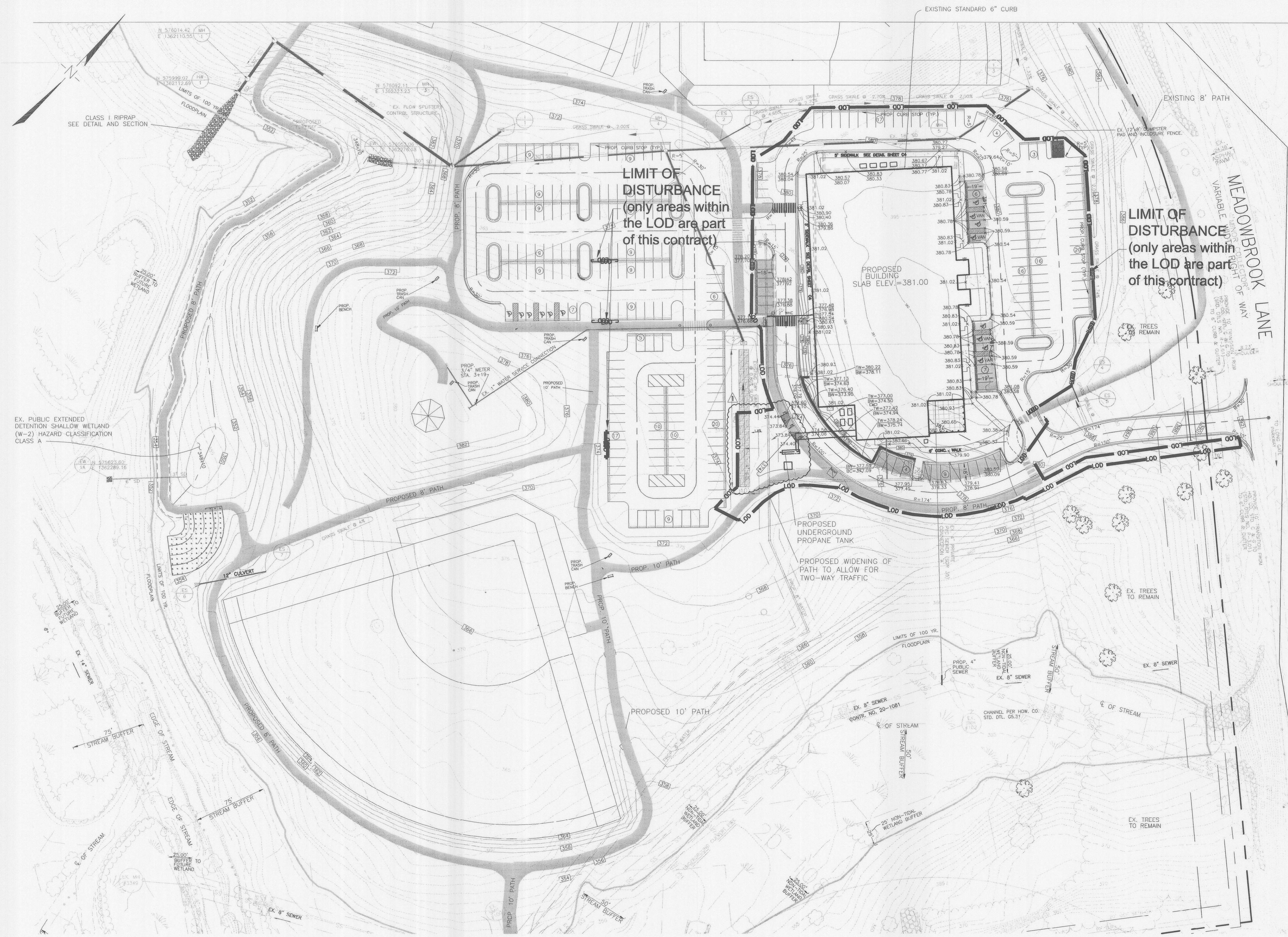
TAX MAP 30
SECOND ELECTION DISTRICT

PROJECT #N-3105
BLOCK 5

PARCELS 383 & 382
HOWARD COUNTY, MARYLAND

SCALE
1"=30'
SHEET
3A OF 7
SDP-01-145

NOTE:
1. SEE SHEET 1 FOR
GENERAL SITE NOTES.



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT _____ DATE _____

OWNER/DEVELOPER INFORMATION

OWNER/DEVELOPER:
HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MARYLAND 21043

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

DIRECTOR _____ DATE _____

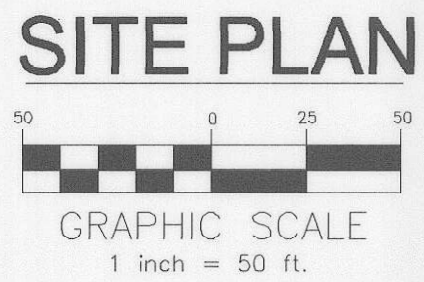
CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

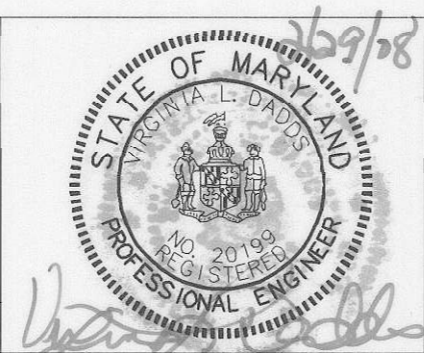
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert D. ... 3/10/08
CHIEF, BUREAU OF ENGINEERING _____ DATE _____

PROJECT MEADOWBROOK PARK		SECTION/AREA N/A	MAP NO. MAP 30 PARCELS 383 & 387
PLAT NO. N/A	GRID NO. 5	ZONE R-20	TAX/ZONE 2
WATER CODE F09		ELEC. DIST. 2	CENSUS TR. 602302
SEWER CODE 5750615			



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ENGINEERING ENVIRONMENTAL SCIENCES
LAND PLANNING & SURVEYING CONSTRUCTION SERVICES
20 BRIDGLEY AVENUE
ANNAPOLIS, MARYLAND 21401
(410) 267-8621
Fax: (410) 267-9922
ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY



DES: J.S.	JDS	ADDENDUM 2	2/22/08
DRN: J.S.			
CHK: V.L.D.			
DATE: MAY, 2001	BY No.	REVISION	DATE

SITE & FINAL GRADING PLAN
SHEET 2

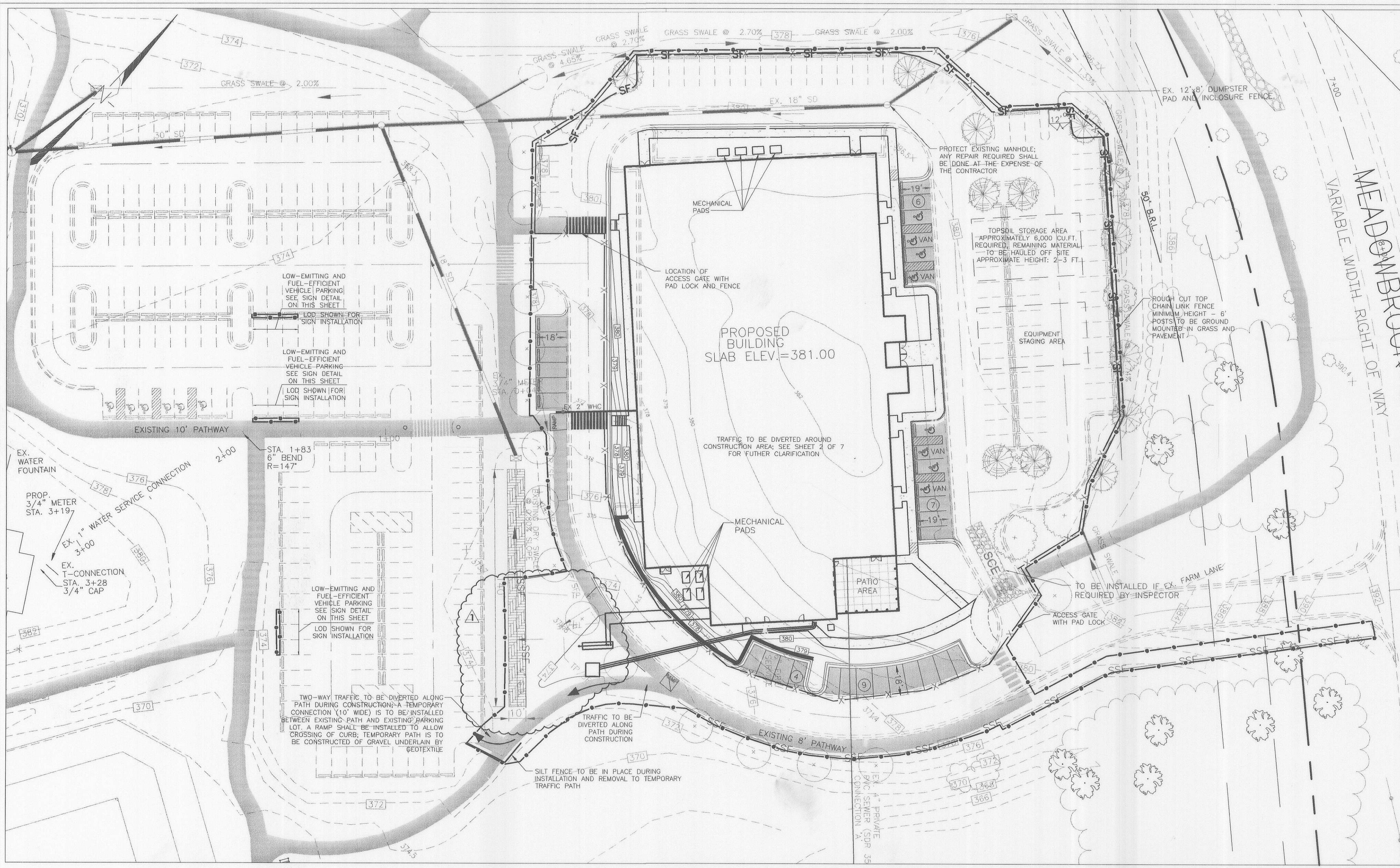
MEADOWBROOK PARK

TAX MAP 30
SECOND ELECTION DISTRICT

PROJECT #N-3105
BLOCK 5

PARCELS 383 & 382
HOWARD COUNTY, MARYLAND

SCALE
1"=50'
SHEET
4 OF 7
SDP-01-145



SEDIMENT & EROSION CONTROL PLAN
SCALE: 1" = 40'

SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection License and Permits Sediment Control Division prior to the start of any construction (313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1; (b) 14 days to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY DESIGN MANUAL - Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area	76.37 Acres
Area Disturbed	2.05 Acres
Area to be roofed or paved	1.14 Acres
Area to be vegetatively stabilized	0.26 Acres
Total Cut	700 CY
Total Fill	300 CY
Offsite waste/borrow area location	400 CY
- An sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that
- All end of silt fence and super silt fence will be curved up hill a min. of 2' in elevation.
- All swales/ditches as called out on these plans will provide erosion control matting until permanently stabilized.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- Preferred—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- Acceptable—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw mulch immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

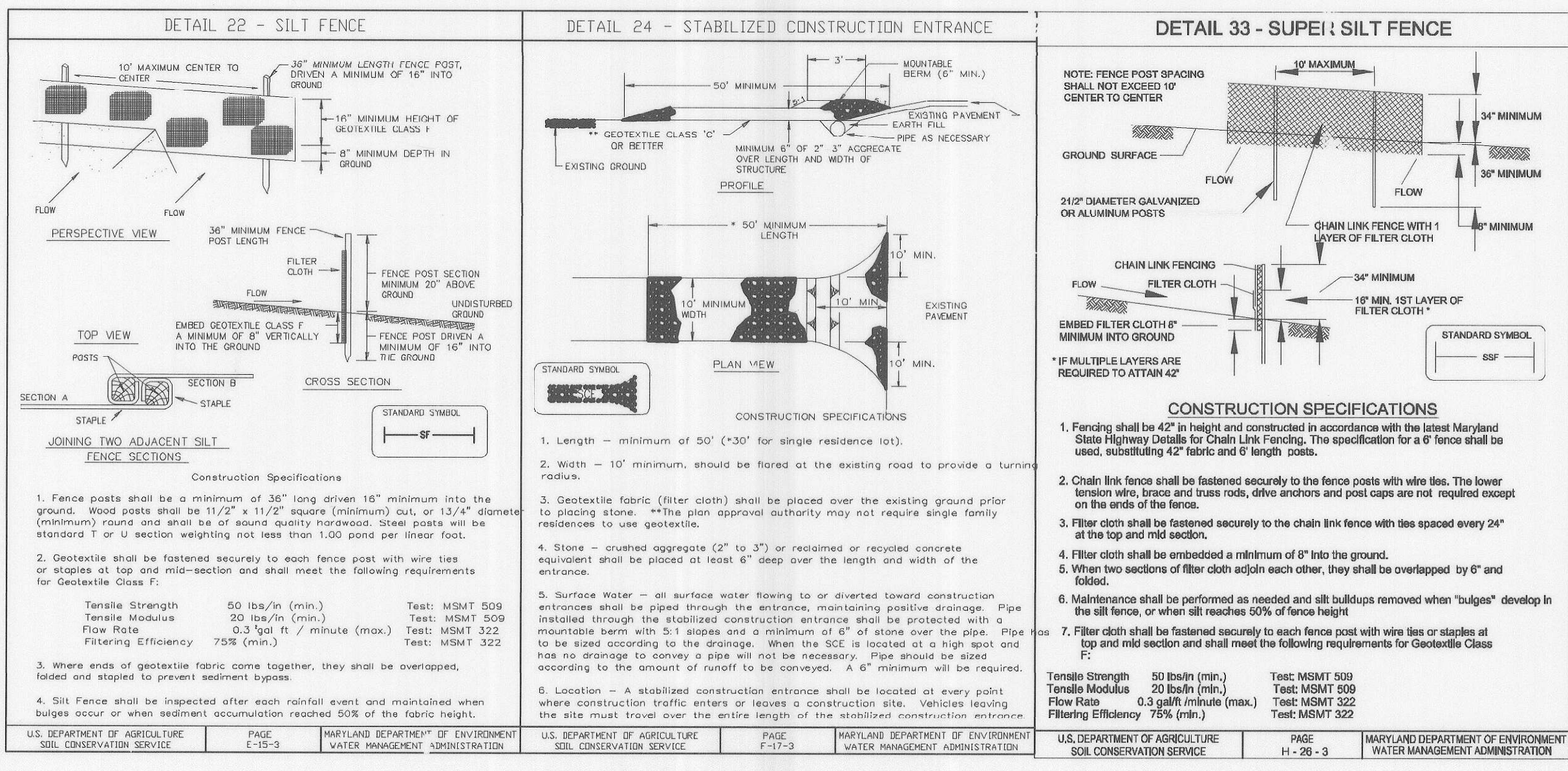
Purpose
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey Manual, in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications – Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textures. Subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization – Section I – Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No seed or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - NOTE: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization—Section I—Vegetative Stabilization Methods and Materials.
- Topsoil Application
 - When topsoiling, maintain needed erosion and sediment control practices such as ditches, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
 - Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
 - Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Seeding shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.



SARIS
CYCLING GROUP

3400 WOODBURN ROAD
BETHESDA, MARYLAND 20814
PHONE: (301) 274-6850
FAX: (301) 274-7102
www.sarisgroup.com

2100 MILLENNIUM WAVE SERIES
MODEL #2100, 2.25" DIA., 5.80 GPM CAPACITY, 18.00 GPM WEIGHT

DATE: 3/10/08

OWNER/DEVELOPER INFORMATION

OWNER/DEVELOPER:
Paul J. Sporn 3/10/08

HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS
9280 BENDICK ROAD
ELLICOTT CITY, MARYLAND 21043

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE

DEVELOPER'S CERTIFICATION

"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Virginia Dadds 2/29/08
DATE: 2/29/08

PROJECT	MEADOWBROOK PARK	SECTION/AREA	N/A	MAP NO.	MAP 30 PARCELS 383 & 387						
PLAT NO.	N/A	GRID NO.	5	ZONE	R-20	TAXZONE	2	ELEC. DIST.	2	CENSUS TR.	602302
WATER CODE	F09	SEWER CODE	5750615								

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(410) 247-8621
FAX (410) 247-9932

ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

DES: J.S. JDS
DRN: J.S.
CHK: V.L.D.DATE: MAY, 2001 BY No.REVISION DATE

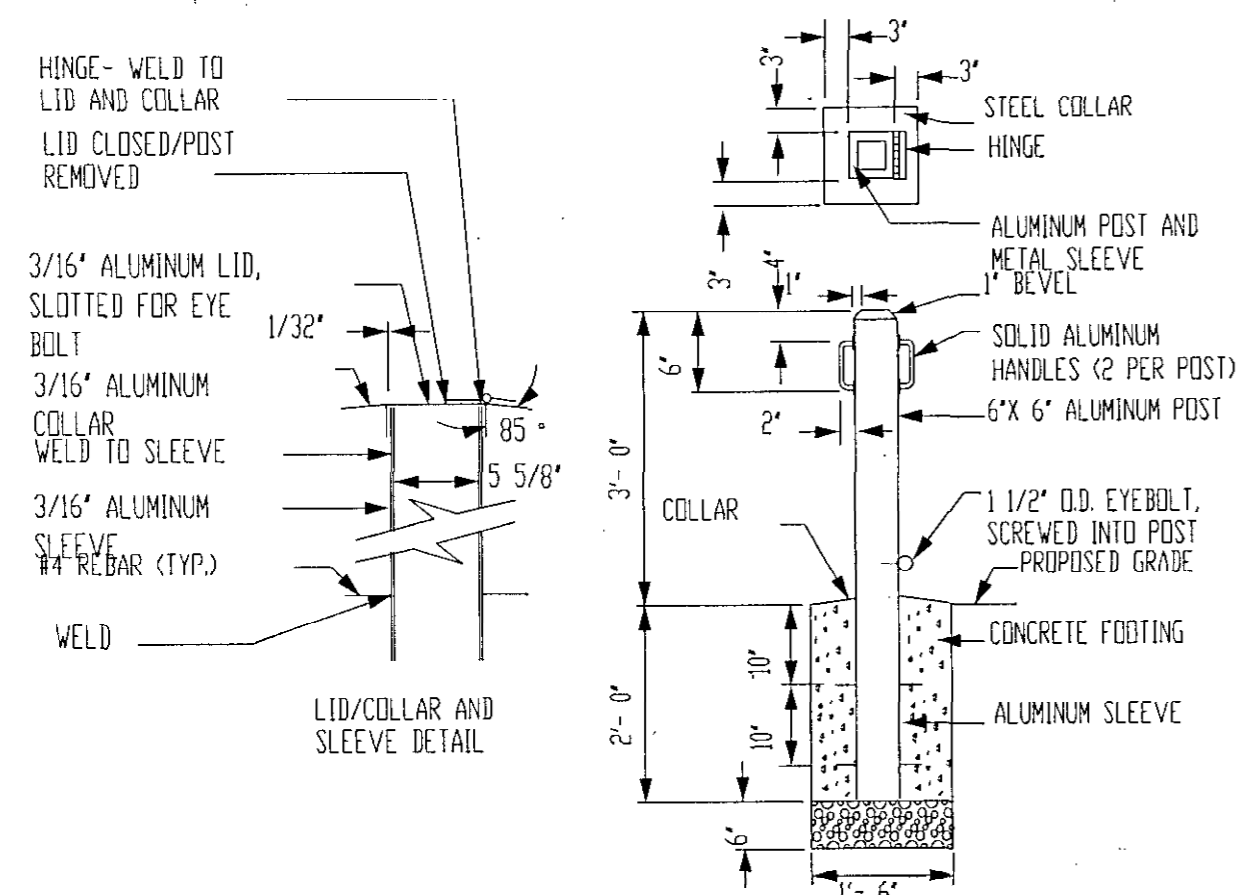
ADDENDUM 2 2/22/08

SEDIMENT & EROSION CONTROL PLAN & DETAILS

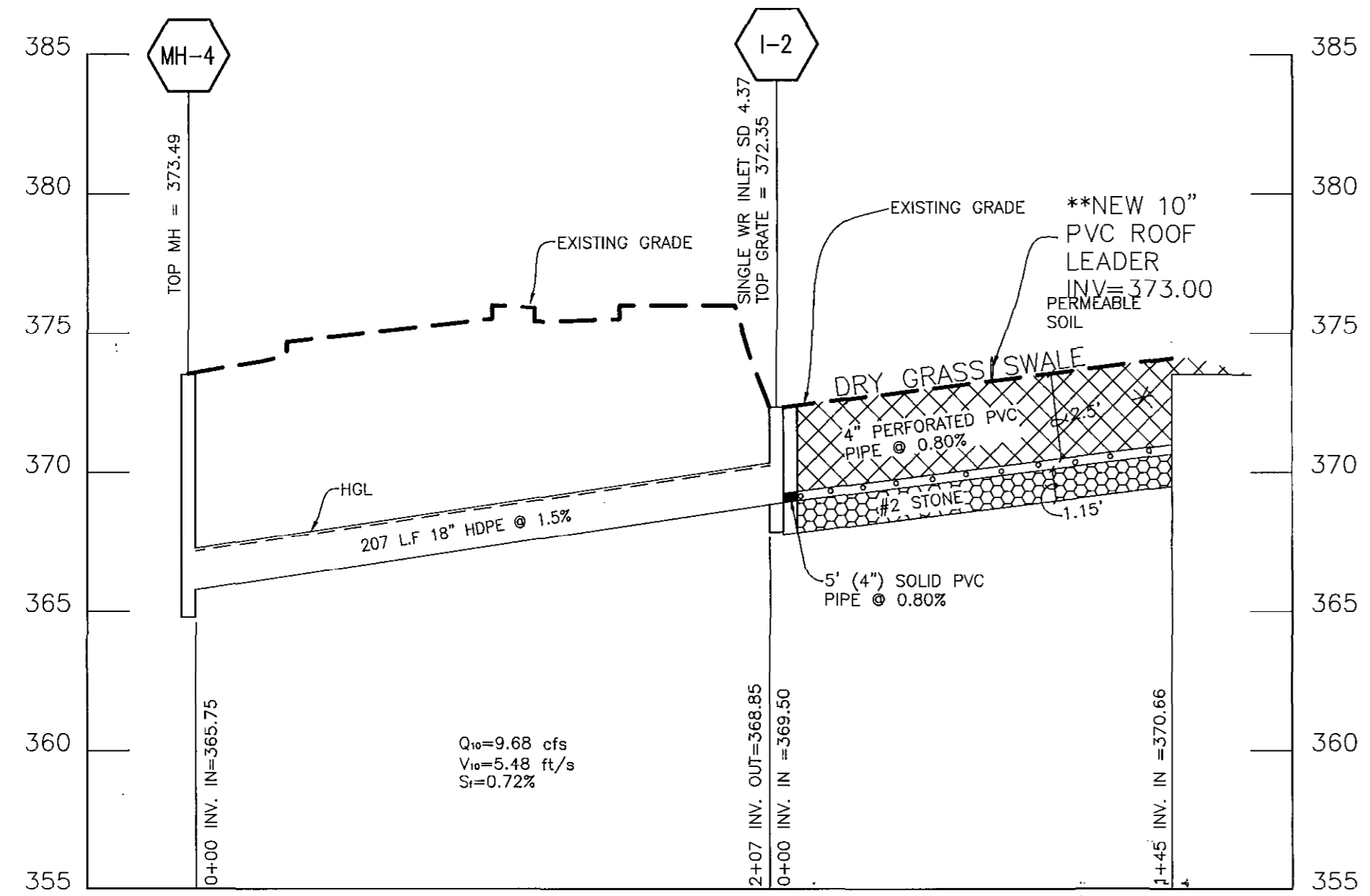
MEADOWBROOK PARK

TAX MAP 30 SECOND ELECTION DISTRICT PROJECT #N-3105 BLOCK 5 PARCELS 383 & 382 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN SHEET 5 OF 7 SDP-01-145

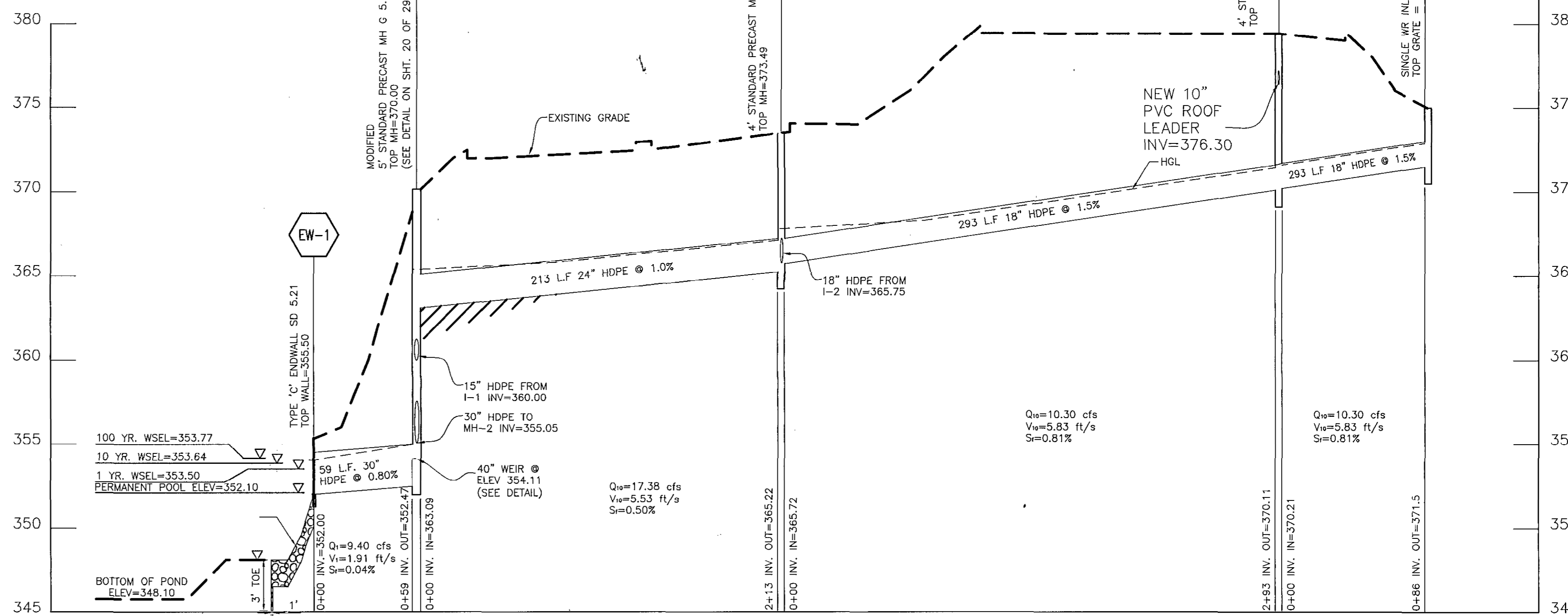


F REMOVABLE BOLLARD W/ SAFETY LID AND NON-PROTRUDING COLLAR
N.T.S.



EXISTING STORM DRAIN PROFILE
SCALE: 1"=5' VERTICAL, 1"=50' HORIZONTAL

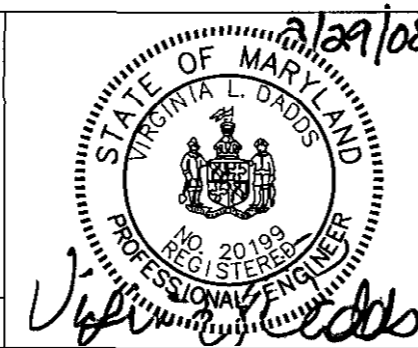
**NOTE:
OUTLET PROTECTION
PROVIDED; SEE SITE
PLAN



EXISTING STORM DRAIN PROFILE
SCALE: 1"=5' VERTICAL, 1"=50' HORIZONTAL

Plot Date and Time: Feb 27, 2008 - 11:44am

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(410) 267-8923
Fax (410) 267-9932
ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SAUSBURY



DES:	J.S.	JDS	ADDENDUM Z	2/22/08
DRN:	J.S.			
CHK:	V.L.D.			
DATE:	MAY, 2001	BY	No.	REVISION
				DATE

EXISTING STORM DRAIN
PROFILES

MEADOWBROOK PARK

TAX MAP 30 SECOND ELECTION DISTRICT
PROJECT NO. N-3105 BLOCK 5
PARCELS 383 & 387 HOWARD COUNTY, MARYLAND

SCALE	AS SHOWN
SHEET	6 OF 7

CADD FILE: \\cvillec01\users\j_s\Projects\C-jobs\C2010081 - Meadowbrook\Final Development\New Folder_11-06.dwg\06_STORMDRAIN_PROFILES.dwg

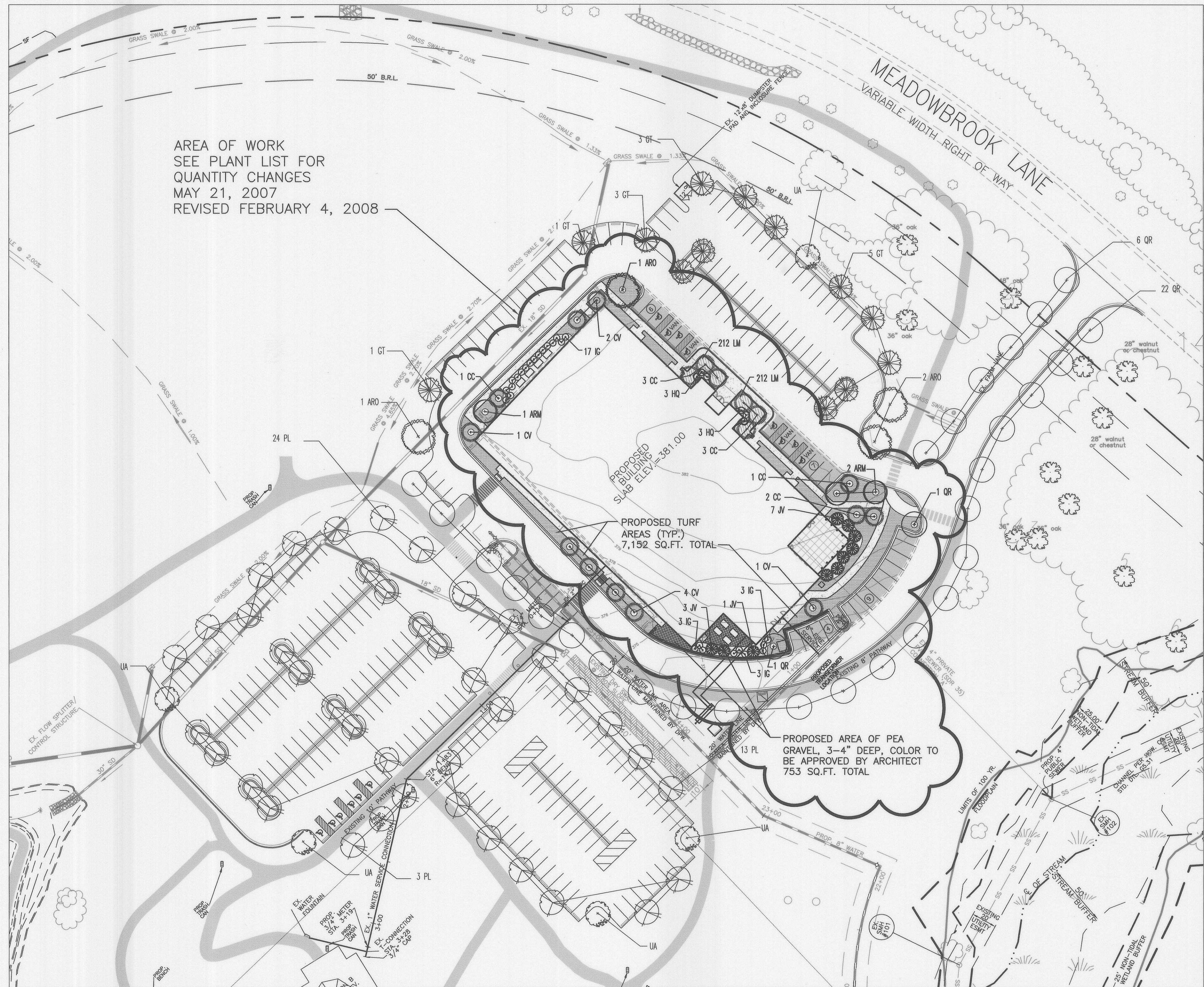
THIS SHEET IS NOT IN CONTRACT

LIMIT OF WORK
SEE DRAWING FOR LOCATION
OF PLANT MATERIAL
MAY 21, 2007
REVISED FEBRUARY 4, 2008

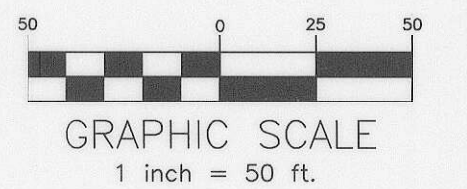
Quan.	Symbol	Botanical Name	Common Name	Remarks
3	ARM	Acer rubrum 'Red Sunset'	Red Sunset Maple	3 - 3 1/2" cal., 15-17' hgt., B&B
40	PL	Platanus acerifolia 'Bloodgood'	Bloodgood London Planetree	2 1/2-3" cal., 15-17' hgt., B&B
30	QR	Quercus rubra (borealis)	Northern Red Oak	2 1/2-3" cal., 15-17' hgt., B&B
5	UA	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2 1/2-3" cal., 15-17' hgt., B&B
4	ARO	Acer rubra 'October Glory'	October Glory Red Maple	2 1/2-3" cal., 15-17' hgt., B&B
13	GT	Aedonias trichos inermis 'Shamrock'	Honey Locust	2 1/2-3" cal., 15-17' hgt., B&B
0	PS	Pinus Strobus	White Pine	6' hgt., B&B
10	JV	Juniperus virginiana 'Burkii'	White Pine	6' hgt., B&B
8	CV	Chionanthus virginicus	White Fringe Tree	6' hgt., B&B
10	CC	Cornus x 'Celestial'	Celestial Dogwood	6' hgt., B&B
6	HQ	Hydrangea quercifolia	Oakleaf Hydrangea	24" height, container
26	IG	Ilex glabra 'Shamrock'	Shamrock Inkberry	24" height, container
424	LM	Liriope muscari 'Royal Purple'	Royal Purple Liriope	1 gallon container, 18" on center

STORMWATER WETLAND					
SCIENTIFIC NAME	COMMON NAME	QTY	SIZE	CONT.	SPACING
PV	Peltandra virginica	Arrow arum	1150	plug	23 flats 18" o.c.
SL	Sagittaria latifolia	Duck potato	600	plug	12 flats 18" o.c.
CS	Carex stricta	Tussock sedge	600	plug	12 flats 18" o.c.
AN	Aster novi-belgii	New York Aster	1550	plug	31 flats 18" o.c.
PC	Pontederia cordata	Pickersweed	1400	plug	28 flats 18" o.c.
EV	Elymus virginicus	Virginia wild rye	1350	plug	27 flats 18" o.c.

SCHEDULE 'B' PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	322
INTERNAL ISLANDS REQUIRED 1:20 SPACES	16
INTERNAL ISLANDS PROVIDED	16
NUMBER OF TREES REQUIRED	16
NUMBER OF TREES PROVIDED	35
SHADE TREES	
OTHER TREES (2:1 substitution)	



PARKING AREA PLANTING PLAN



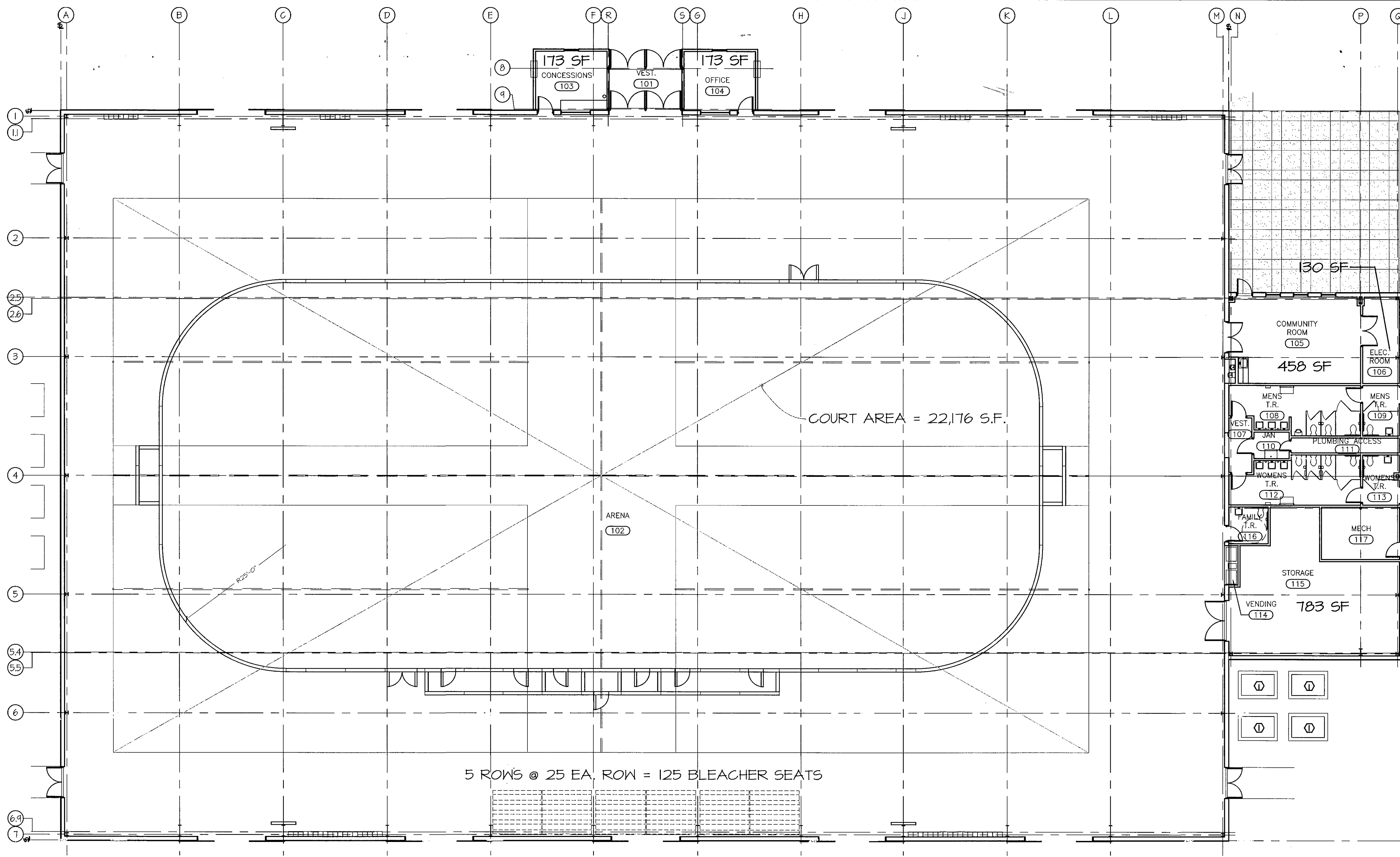
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ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SAUSBURY

DES: J.S.	JDS	ADDENDUM 2	2/22/08
DRN: J.S.			
CHK: V.D.			
DATE: MAY, 2007	BY	No.	REVISION

LANDSCAPE PLAN
PARKING AREA & WATER QUALITY
WETLAND PLANTING PLAN

MEADOWBROOK PARK
PROJECT NO. N-3105
BLOCK 5
PARCELS 383 & 387
TAX MAP 30
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS SHOWN
SHEET
7 OF 7



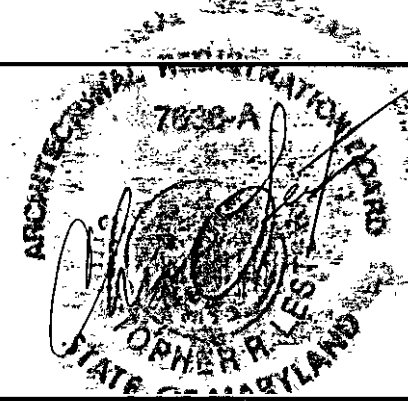
BUILDING AREA =
38,196 SF TOTAL

CODE DATA	
APPLICABLE CODES:	
INTERNATIONAL BUILDING CODE, 2006 EDITION	
LIFE SAFETY CODE (NFPA 101), 2006 EDITION	
BUILDING USE GROUP: "A-4" (Assembly)	
CONSTRUCTION CLASS: 2-B	
AREA:	
TABULAR AREA ALLOWED: 9500 S.F.	
AREA ALLOWANCE CALCULATIONS:	
$I_f = 100 \left[\frac{868'}{868'} - 0.25 \right] \frac{30}{30} = 75$	
$A_d = 9500 \left[\frac{4500 \times 75}{100} \right] + \left[\frac{9500 \times 300}{100} \right] \frac{30}{30} = 45,125 \text{ S.F.}$	
DESIGNED FLOOR AREA: 38,196 S.F.	
HEIGHT:	
ALLOWED BY 2003 IBC: 2 St. / 55 Ft.	
SPRINKLER INCREASE: 3 story / 75 Ft. (504.2)	
FIRE RESISTANCE RATINGS:	
STRUCTURAL FRAME	0 Hrs. (Table 601)
BEARING WALLS:	Exterior 0 Hrs. (Table 601)
	Interior 0 Hrs. (Table 601)
NON-BEARING WALLS & PARTITIONS:	Exterior 0 Hrs. (Table 602)
	Interior 0 Hrs. (Table 602)
FLOOR CONSTRUCT. (incl. Beams):	0 Hrs. (Table 601)
ROOF CONSTRUCTION:	0 Hrs. (Table 601)
FIRE AND PARTY WALLS:	2 Hrs. (Table 105.4)
FIRE BARRIER ASSEMBLIES:	Exits N/A
	Stairs N/A
	Other Sep. Assemb. N/A
FIRE PARTITIONS:	Exit Access Corridors N/A
	Tenant Separations N/A
SMOKE BARRIERS:	N/A
FINISHES: Class B or better required.	
FIRE SUPPRESSION SYSTEM: FULLY SPRINKLERED BUILDING	
MEANS OF EGRESS:	
TOTAL BUILDING OCCUPANT LOAD IS CALCULATED FROM TOTAL SQUARE FOOTAGE OF PLAY AREA + BLEACHER CAP. + ACCESSORY SPACES	
OCCUPANT LOAD (see Calculations Below): 1,607 Max.	
- PLAYING SURFACES:	
FLOOR AREA = 22,176 S.F.	
CALC. @ 1 OCC / 15 S.F. = 1,478 OCCUPANTS	
- BLEACHER SEATING CAPACITY = 125 OCCUPANTS	
- CONCESSION AND OFFICE @ 1100 S.F. = 4 OCCUPANTS	
REQUIRED WIDTH OF EXIT DOORS: 32" @ 0.20"/Occupant	
WIDTH OF EXIT DOORS PROVIDED:	
FRONT ENTRY/EXIT: 161.0' @ 40.25" Clear Width / Leaf (4 provided)	
SIDE DOORS: 272.0' @ 34" Clear Width / Leaf (8 provided)	
LENGTH OF COMMON PATH OF TRAVEL: 75 Ft. max.	
LENGTH OF EXIT ACCESS TRAVEL: 250 Ft. max. (with Sprinkler Sys.)	
LENGTH OF DEAD END CORRIDOR: 20 Ft. OR 2.5 X The Least Width	
ACCESSIBILITY: FULLY ADA COMPLIANT	
ENERGY EFFICIENCY:	
WALL INSULATION:	R-19 Vinyl Faced Battis
ROOF INSULATION:	R-30 Vinyl Faced Battis
MINIMUM REQUIRED PLUMBING FIXTURES:	
The basis for the plumbing fixture count is as follows:	
PROJECTED COURT USE MAXIMUM OCCUPANCY:	
HOCKEY RINK:	15 PLAYERS/TEAM x 2 = 30 or
	PRACTICE - 15 PLAYERS x 4 TEAMS = 60
-- OR --	
BASKETBALL COURTS:	4 FULL-SIZE COURTS X 15 OCC./TEAM x 2 = 120 or
	8 PRACTICE COURTS X 15 OCC./TEAM x 1 = 120
-- OR --	
VOLLEYBALL COURTS:	6 COURTS X 10 PERSONS/TEAM x 2 TEAMS = 120
-- PLUS --	
SPECTATOR SEATING:	= 125
TOTAL NUMBER OF OCCUPANTS PROJECTED DURING NORMAL/HIGH PEAK OPERATIONS = 245	
MEN / WOMEN EA. = 245 / 2 = 122.5	
MINIMUM NUMBER OF REQUIRED PLUMBING FACILITIES REQUIRED:	
WATER CLOSETS:	
Male:	123 / 75 = 2
Female:	123 / 40 = 3
LAVATORIES:	
Male:	123 / 200 = 1
Female:	123 / 150 = 1
BATHUBS OR SHOWERS: None	
DRINKING FOUNTAINS: 2	
OTHER: 1 Service Sink	

AREA AND EGRESS CALCULATIONS, OCCUPANT LOADS, AND CODE DATA

1/610
9/32" = 1'-0"

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Fax (410) 267-9932
ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SAUSBURY



DES:	100% SUBMITTAL	01/17/06
	100% SUBMITTAL - After Owner Review Comments	11/20/06
DRN:	100% SUBMITTAL - BID SET	05/30/07
	FINAL BID SET	01/14/08
CHK:		
DATE: 1/14/08	BY No.	REVISION

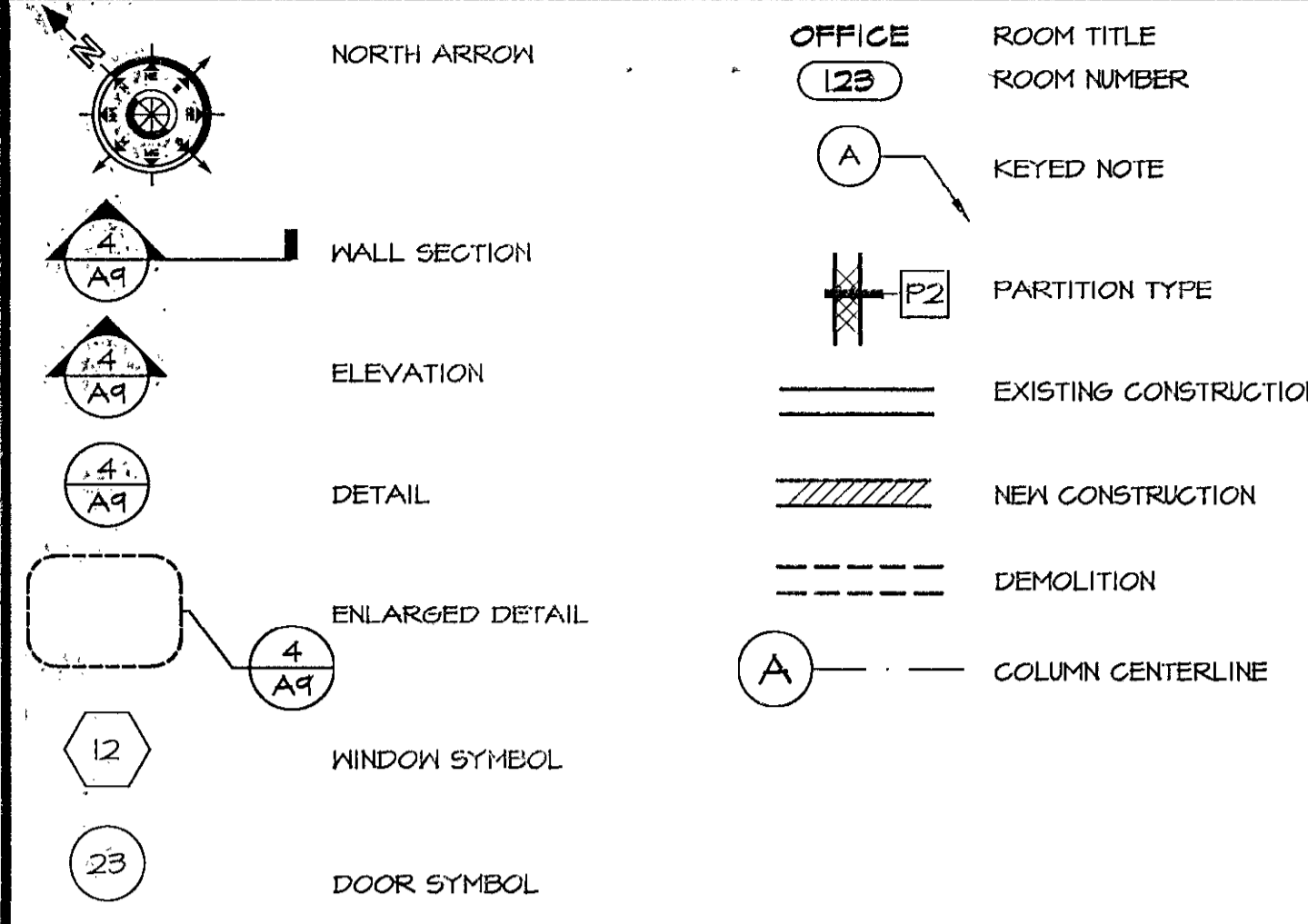
CODE REVIEW
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS
TITLE

GVA
George Vaeth Associates, Inc.
Architecture • Interior Design
6501 Twin Knolls Rd., Suite 108
Columbia, Maryland 21045
Tel (410) 997-8000 Fax (410) 997-2719
Email gva@georgevaeth.com

Columbia Engineering Inc.
Structural Engineers
6470-A Dabbin Road
Columbia, Maryland 21045
Wash. Telephone 301.621.4015
Balt. Telephone 410.992.9970
Fax 410.992.0627
E-mail columbio@columbiaengineering.com

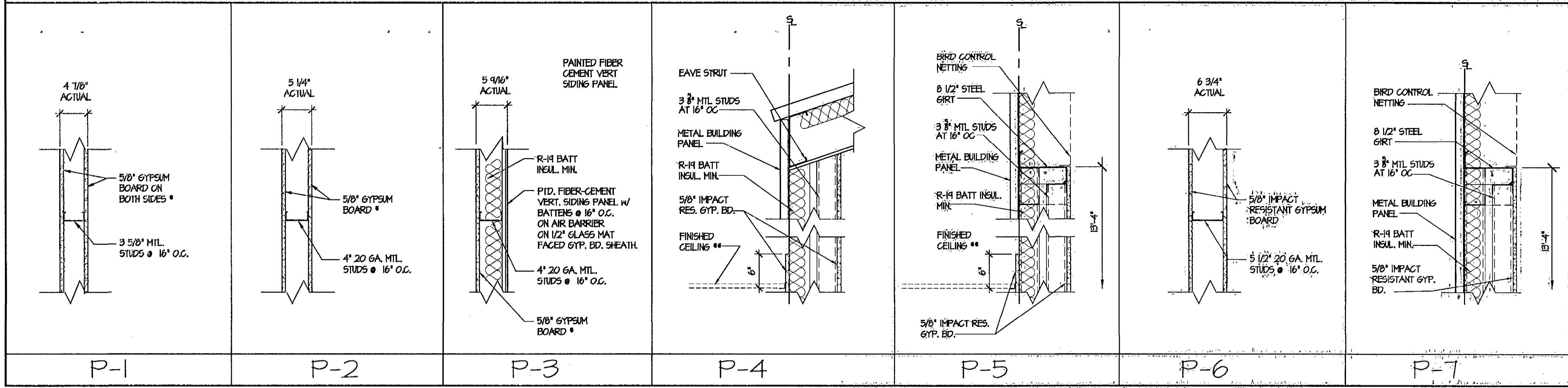
SCALE
AS SHOWN
SHEET
6101

SYMBOLS



FOR ADDITIONAL SYMBOLS SEE INDIVIDUAL SHEETS

PARTITION AND WALL SCHEDULE

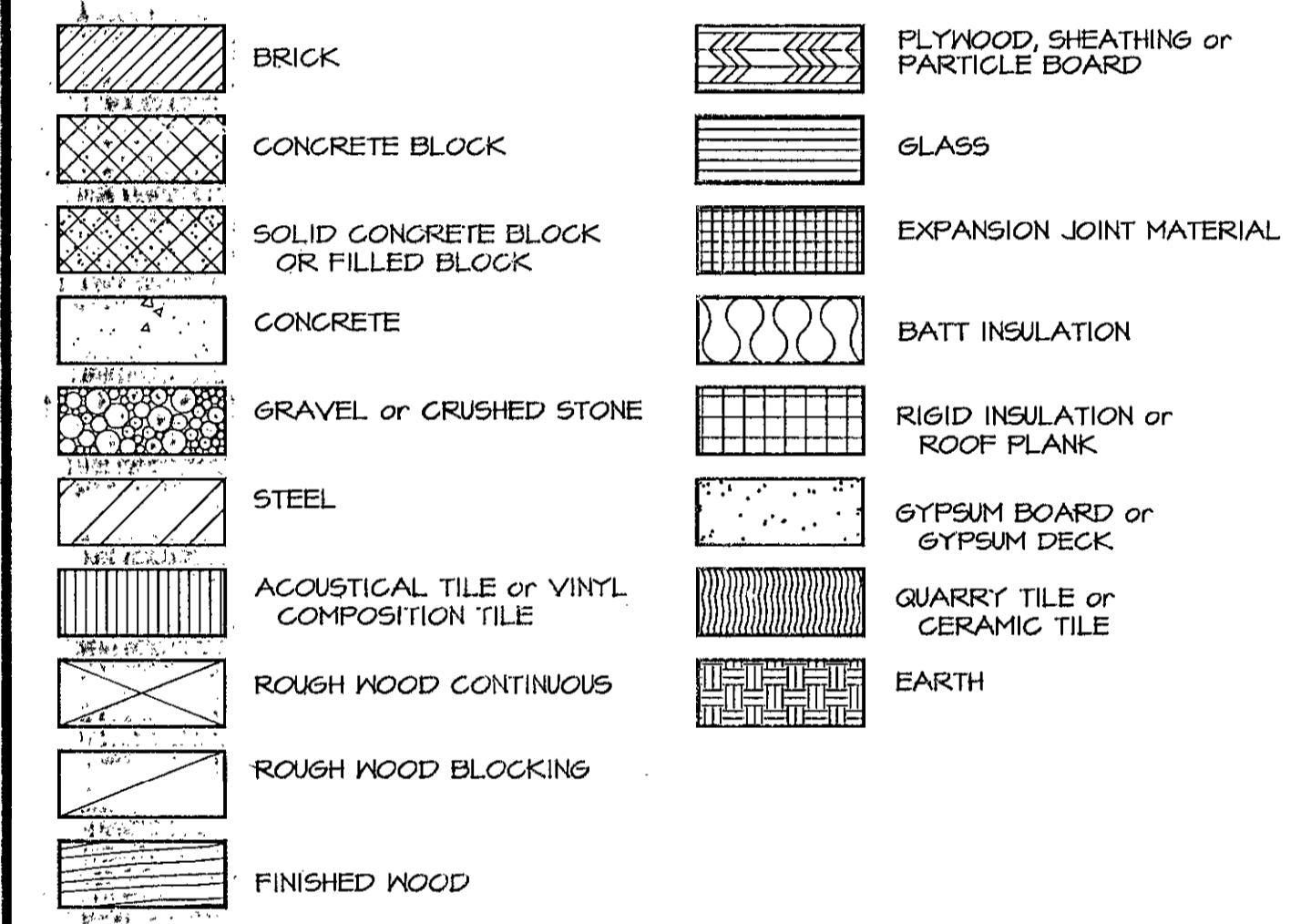


SCALE: 1" = 1'-0"

NOTES:

- REFER TO FINISH SCHEDULE FOR ADDL. WALL FINISHES ON PARTITIONS TYPES.
REFER TO FINISH SCHEDULE FOR LOCATIONS OF 5/8\"/>

MATERIAL SCHEDULE



DOOR HARDWARE SCHEDULE

Table with 5 columns listing hardware sets (A-1 to A-5, 1 to 7) and their components such as 4 pair ball-bearing butts, 2 overhead closers, surface mtd. devices w/ key retractable latch bolts, 2 tracks (15'), 0102.00016, 4 hinges, 0102.0016, 4 end stopper/bumper, 0102.00081, 2 roller guides, 0080.00009, 2 cane bolts, 0324.00021, lockset, Adams Rite 1850 series double cylinder pivoting hook deadbolt, 2 flush pulls, 0410.00001, 2 bow handles, 0081.00002, 4 weatherstrip sweep Richards Nilcox 0216 series, 2 weatherstrip astragals-Pemko 3580H, 2 weatherstrip sills-Pemko 2841-PK, 2 thresholds-Pemko 227A, 1-1/2 pair butt hinges, FBB114, 1 lockset, office (FO4), 1 kickplate, 8\"/>

ABBREVIATIONS

Table of abbreviations with columns for various construction terms and their full names, including: ANCHOR BOLT, AIR CONDITIONING, AIR CONDITIONING UNIT, ACOUSTICAL, ACOUSTICAL TILE, AREA DRAIN, ABOVE FINISHED FLOOR, ALTERNATE, ALUMINUM, AND, ANGLE, APPROXIMATELY, ARCHITECTURAL or ARCHITECT, AT, ATTACHED, ACOUSTICAL TILE, BOTTOM OF CURB, BOARD, BUILDING, BLOCK, BLOCKING, BEAM, BOTTOM, BEARING, BRICK, BOTH SIDES, BASEMENT, BUILT UP, COURSES, CABINET, CARPET, CHALKBOARD, CEMENT, CAST IRON, CONTROL JOINT, CENTERLINE, CEILING, CLOSET, CLEAR, CONCRETE MASONRY UNIT, CLEAN OUT, COLUMN, CONCRETE, CONSTRUCTION JOINT, CONSTRUCTION, CORRUGATED or CORRIDOR, CONTINUOUS, CERAMIC TILE, COUNTERSUNK, CLEAR WIRE GLASS, DOUBLE, DETAIL, DRINKING FOUNTAIN, DIAMETER, DIMENSION, DOWN, DAMP PROOFING, DOWNPOUT, DRAWING(S), EACH, EXTERIOR INSULATION & FINISH SYSTEM, FOR EXAMPLE, EXPANSION JOINT, ELEVATION, ELECTRIC(AL), ELEVATION or ELEVATOR, ELECTRICAL PANEL, EQUAL, EQUIPMENT, ELECTRIC WATER COOLER, EXHAUST, EXISTING, EXPANSION or EXPOSED, EXTERIOR, FLOOR DRAIN, FIRE HYDRANT, FINISH, FIXTURE, FLOOR, FLUORESCENT, FEET or FOOT, FOOTING, FIRE EXTINGUISHER, GAUGE, GALVANIZED, GRAB BAR, GENERAL CONTRACTOR, GLASS, GRADE, GYPSUM WALL BOARD, GYPSUM, H. OR HT., HOSE BIB, HOLLOW CORE, HEAD, HARDWARE, HEIGHT, HOLLOW METAL, HORIZONTAL, HOUR, HEATER, HIGH POINT, INSIDE DIAMETER, INCH, INTERIOR or INTERMEDIATE, INCANDESCENT, INSULATION, INTERIOR, INVERT, JANITOR CLOSET, JOINT, LAMINATE, LONG LEG HORIZONTAL, LONG LEG VERTICAL, LOW POINT, LIGHT, MIRROR or METER, MASONRY, MAXIMUM, MATERIAL, MEDICINE CABINET, MECHANICAL, MEMBRANE, MET. OR MTL., MINIMUM, MEZZANINE, MANUFACTURE(R), MANHOLE, MOP HOOK STRIP, MINIMUM, MISCELLANEOUS, MASONRY OPENING, MODEL, METAL THRESHOLD, MOUNTING, NOT IN CONTRACT, NUMBER, NOT TO SCALE, ON CENTER, OUTSIDE DIAMETER, OFFICE, OVERHEAD, OPPOSITE HAND, PARTITION, PLATE, PLASTIC or PLASTER, FLYWOOD, PANEL, PAIR, PREFABRICATE, POLISHED, PRESSURE TREATED, PAPER TONEL DISPENSER, PAINTED, QUARRY TILE, RISER or RADIUS, RETURN AIR, ROOF DRAIN, REINFORCEMENT or REINFORCING, REQUIRED, RECESSED FLOOR MATERIAL, RAIN LEADER, RAILING, ROOM, ROUND, ROUGH OPENING, SUPPLY AIR, SANITARY, STRUCTURAL GLAZED FACING TILE, SOLID CORE, SOAP DISPENSER, SCHEDULE, SEALANT, SECTION, SHEET, SIMILAR, STRUCTURAL LINE, SHEET METAL, SPECIFICATIONS, SQUARE, SLATE SADDLE, STAINLESS STEEL, STANDARD, STORAGE, STRUCTURE or STRUCTURAL, SUSPENDED or SUSPENSION, SYNTHETIC, TACK BOARD, TELEPHONE, TEMPERED, TEMPORARY, or, TEMPERATURE, TOILET PAPER HOLDER, TONGUE & GROOVE, THICK, THRESHOLD, TOILET, TEMPERATURE, TREAD, TOP OF, TOP OF STEEL, TOP OF SLAB, TOP OF WALL, TYPICAL, UNIT VENTILATOR, UNLESS NOTED OTHERWISE, VERTICAL, VINYL COMPOSITION TILE, VERIFY IN FIELD, WIDTH, WITH, WITHOUT, WATER CLOSET or WALL COVERING, WOOD, WINDOW, WALL MOUNTED ADJUSTABLE, SHELVES, WEATHERPROOF or WATERPROOF, WATERPROOFED MEMBRANE, WELDED WIRE MESH, YARD

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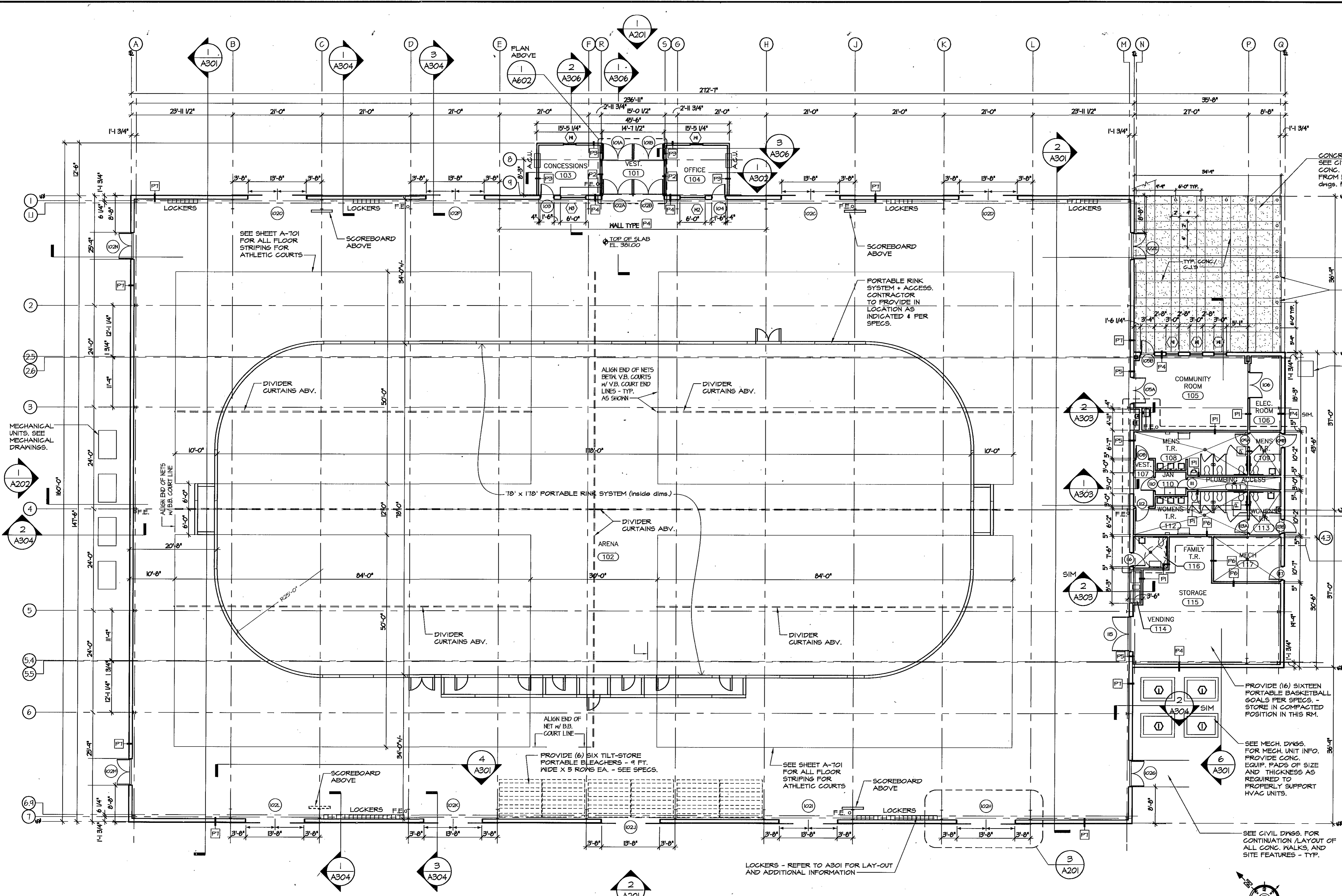


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DRAWING INFORMATION: MEADOWBROOK SPORTS CENTER, HOWARD COUNTY DEPT. OF RECREATION AND PARKS

GVA logo: George Voeth Associates, Inc., Architecture • Interior Design, 6601 Twin Mills Rd., Suite 108, Columbia, Maryland 21046, Tel: (410) 997-1000, Fax: (410) 997-2719, Email: gva@gevoeth.com

Columbia Engineering Inc. logo and contact information: Structural Engineers, 8470-A Dossin Road, Columbia, Maryland 21045, Wash. Telephone 301.621.4015, Balto. Telephone 410.992.9970, Fax 410.992.0827, E-mail: columbiainc@columbiainc.com



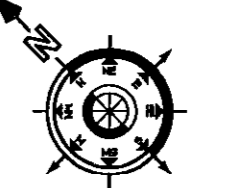
CONCRETE PATIO - SEE CIVIL DRAWINGS. SLOPE CONC. MIN. 1/8" FT. DN & AWAY FROM EXT. DOOR OPENINGS - see civil drngs. for grading

LIGHTING BOLLARDS - TYP. SEE ELEC. DWGS. - CONC. BASE DETAIL PER BOLLARD MFR.

MECHANICAL UNITS. SEE MECHANICAL DRAWINGS.

GENERAL NOTES

1. DIMENSIONS OF METAL BUILDING MAY VARY FROM MANUFACTURER TO MANUFACTURER. IT IS THE INTENT OF THESE DWGS. TO HOLD ALL DIMENSIONS AS INDICATED ON THE CONSTRUCTION DOCUMENTS. IF THERE ARE MINOR DIMENSIONAL DEVIATIONS THAT IMPACT THE OTHER WORK IN THIS CONTRACT, THEN IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALL ADJUSTMENTS TO IMPACTED BUILDING ELEMENTS ACCORDINGLY TO ACHIEVE THE ORIGINAL DESIGN INTENT. ANY ADDITIONAL COSTS ASSOCIATED WITH THESE CHANGES WILL BE BORNE BY THE CONTRACTOR. ALL DIMENSIONAL DEVIATIONS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND OWNER PRIOR TO PURCHASING ANY BUILDING COMPONENT AFFECTED BY THESE DEVIATIONS. ALL CONTRACTOR SUBMITTALS TO CLEARLY IDENTIFY ANY DEVIATIONS.
2. COORD. ALL CONSTRUCTION WITH CIVIL, STRUCTURAL, AND M/E/P DRAWINGS.
3. EXTEND ALL PARTITION WALLS 6" ABOVE FINISH CEILING UNLESS NOTED/SHOWN OTHERWISE. EXTEND PARTITION TO BOTTOM OF STRUCTURE WHERE NO CEILING OCCURS.
4. PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS.
5. ALL EXPOSED ARENA WALL SURFACES (FROM F.F. TO 13'-4" A.F.F. OR AS OTHERWISE INDICATED ON DWGS.) TO BE 3/8" IMPACT RESISTANT GYP. BD. ON 3-3/8" METAL STUDS AT 16" O.C.). OBJECTIVE IS FOR TOP OF GYPSUM BOARD TO ALIGN WITH PURLIN.



FLOOR PLAN

5/32" = 1'-0"

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ARCHITECTURAL REGISTRATION BOARD OF MARYLAND
 7636-A
 STATE OF MARYLAND
 STEPHEN R. LEVITZ
 ARCHITECT

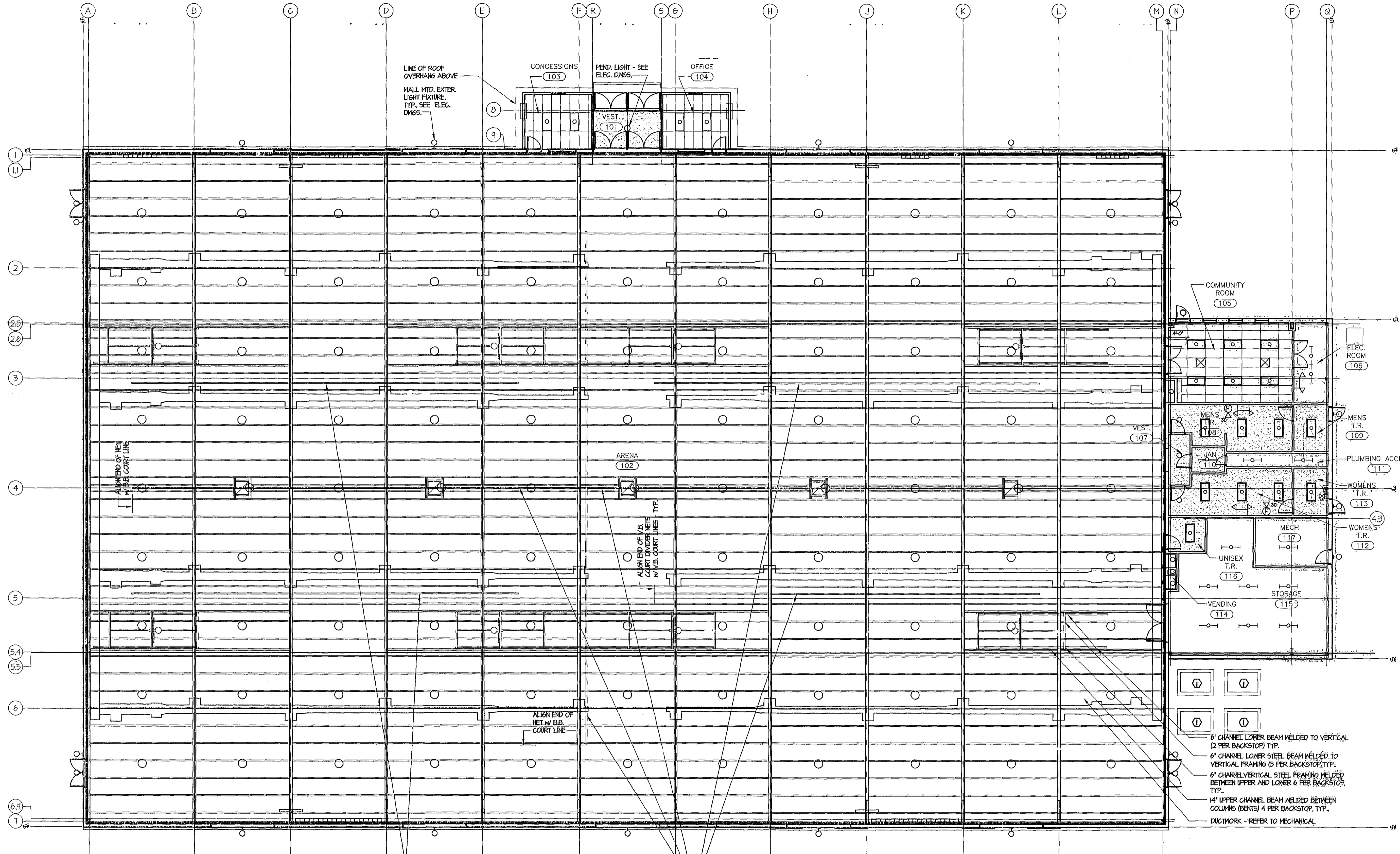
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	FINAL BID SET	01/14/08
CHK:	ADDENDUM # 2	3/11/08
DATE: 1/14/08	BY No.	REVISION

FLOOR PLAN
MEADOWBROOK SPORTS CENTER
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS
 TITLE

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 E-mail columbiac@colengineering.com

SCALE
 AS SHOWN
 SHEET
A 101



LINE OF ROOF OVERHANG ABOVE
HALL MTD. EXTER. LIGHT FIXTURE
TYP. SEE ELEC. DWGS.

CONCESSIONS (103)

PEND. LIGHT - SEE ELEC. DWGS.

OFFICE (104)

VEST. (101)

ARENA (102)

COMMUNITY ROOM (105)

ELEC. ROOM (106)

VEST. (107)

MENS T.R. (109)

PLUMBING ACCESS (111)

WOMENS T.R. (113)

WOMENS T.R. (112)

MECH (117)

UNISEX T.R. (116)

VENDING (114)

STORAGE (115)

ELEC. POWERED DIVIDER CURTAINS - SEE PLANS FOR SIZE & LOG. PROVIDE ALL ADDL. PIPE FRAMING REQD. TO PROPERLY SUPPORT CURTAIN OVER ENTIRE LENGTH. COORD. ADDL. LOADING IMPACT WITH MIL. BLDGS. NFR.

- 6" CHANNEL LOWER BEAM WELDED TO VERTICAL (2 PER BACKSTOP) TYP.
- 6" CHANNEL LOWER STEEL BEAM WELDED TO VERTICAL FRAMING (3 PER BACKSTOP) TYP.
- 6" CHANNEL VERTICAL STEEL FRAMING WELDED BETWEEN UPPER AND LOWER 6" PER BACKSTOP, TYP.
- 1" UPPER CHANNEL BEAM WELDED BETWEEN COLUMNS (BENTS) 4 PER BACKSTOP, TYP.
- DUCTWORK - REFER TO MECHANICAL

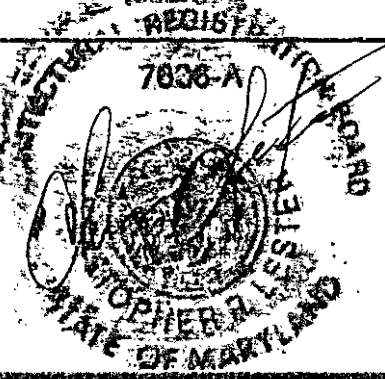
LEGEND

- SUSPENDED CEILING GRID
- GYP. BD. CEILING
- 2x4 FLUORESCENT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE MOUNT BOTTOM @ 1'-0" AFF OR AS INDICATED ON ELEVATIONS - CENTER OVER DOOR OPENING
- SURFACE MTD LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- SUPPLY AIR GRILL
- RETURN AIR OR EXHAUST GRILL

REFLECTED CEILING PLAN

1/102 3/82" = 1'-0"

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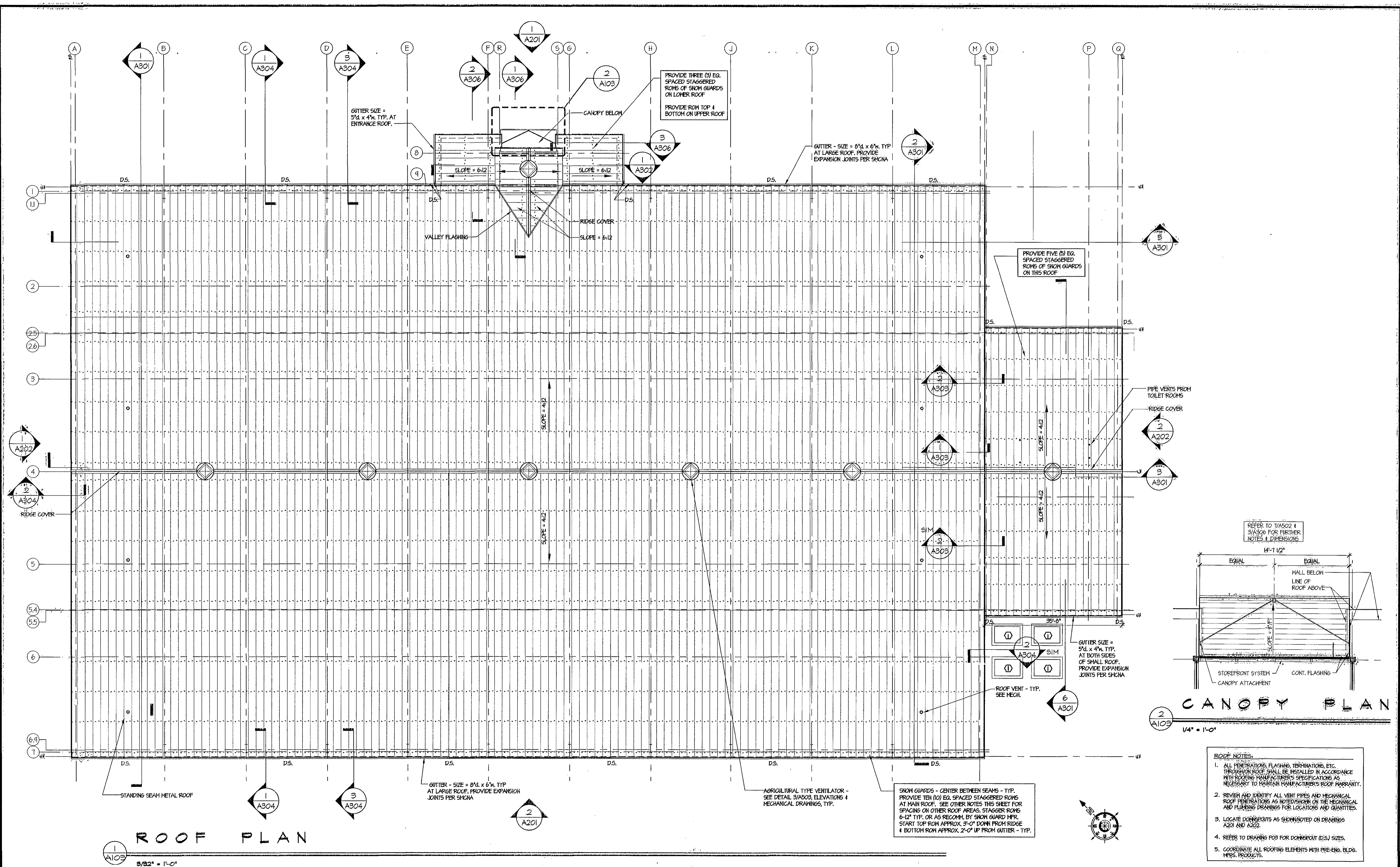
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	FINAL BID SET	01/14/08
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REFLECTED CEILING PLAN
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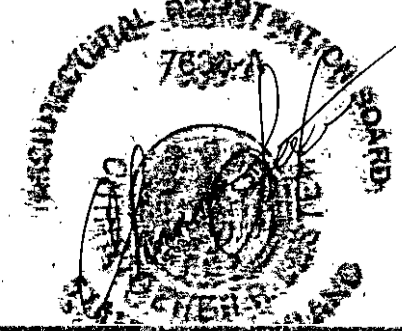


CANOPY PLAN
1/4" = 1'-0"

- ROOF NOTES:**
1. ALL PENETRATIONS, FLASHING, TERMINATIONS, ETC. THROUGH ROOF SHALL BE INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURER'S SPECIFICATIONS AS NECESSARY TO MAINTAIN MANUFACTURER'S ROOF WARRANTY.
 2. REVIEW AND IDENTIFY ALL VENT PIPES AND MECHANICAL ROOF PENETRATIONS AS NOTED/SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS AND QUANTITIES.
 3. LOCATE DOWNSPOUTS AS SHOWN/NOTED ON DRAWINGS A201 AND A202.
 4. REFER TO DRAWING P03 FOR DOWNSPOUT (D.S.) SIZES.
 5. COORDINATE ALL ROOFING ELEMENTS WITH PRE-ENG. BLDG. MFRS. PRODUCTS.

ROOF PLAN
3/32" = 1'-0"

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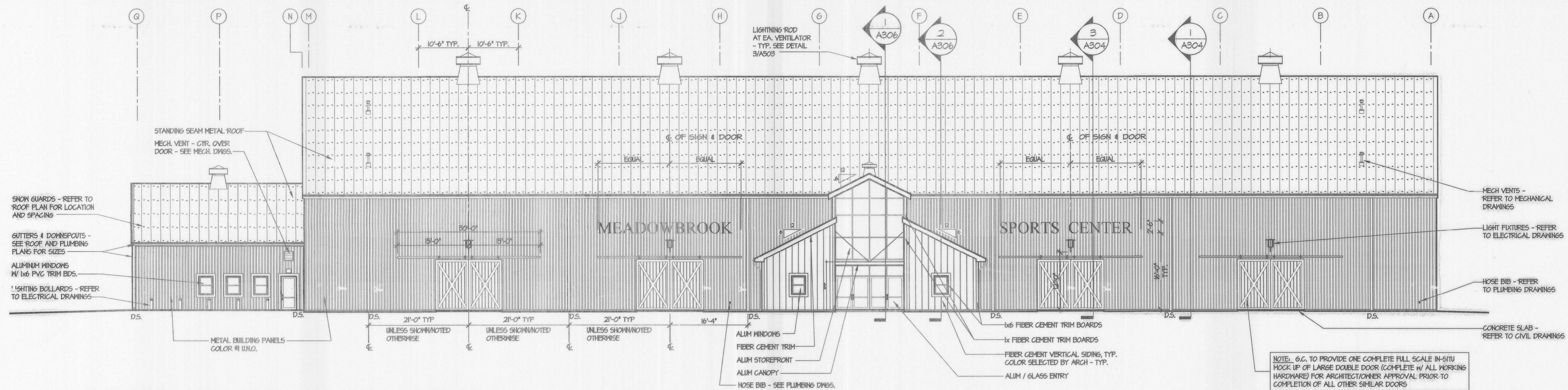
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ROOF PLAN
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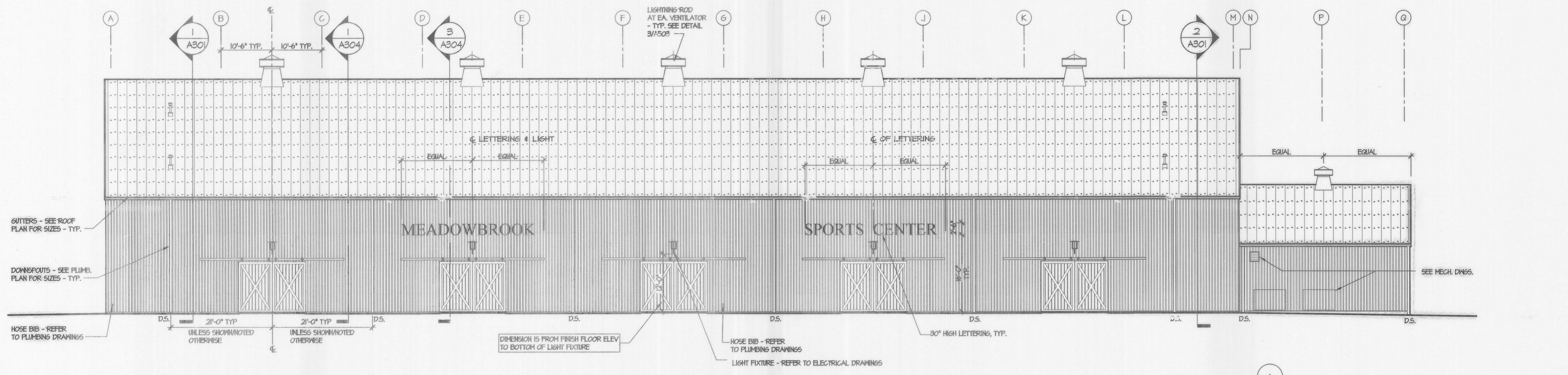
COLUMBIA ENGINEERING INC.
Structural Engineers
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Baltimore Telephone 410.992.9970
Fax 410.992.0627
E-mail columbia@columbiaengineering.com

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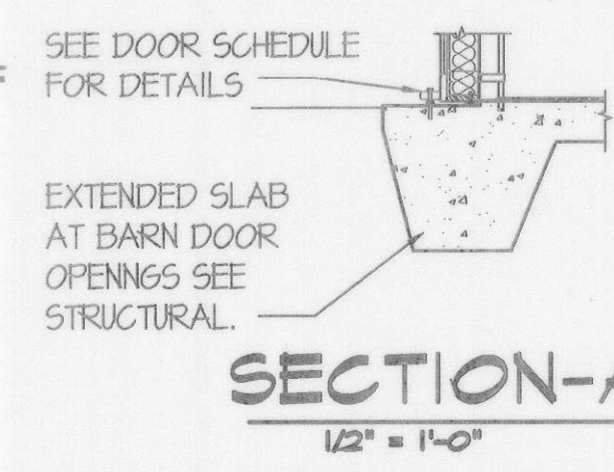
NORTHEAST ELEVATION

1
A20
3/32" = 1'-0"

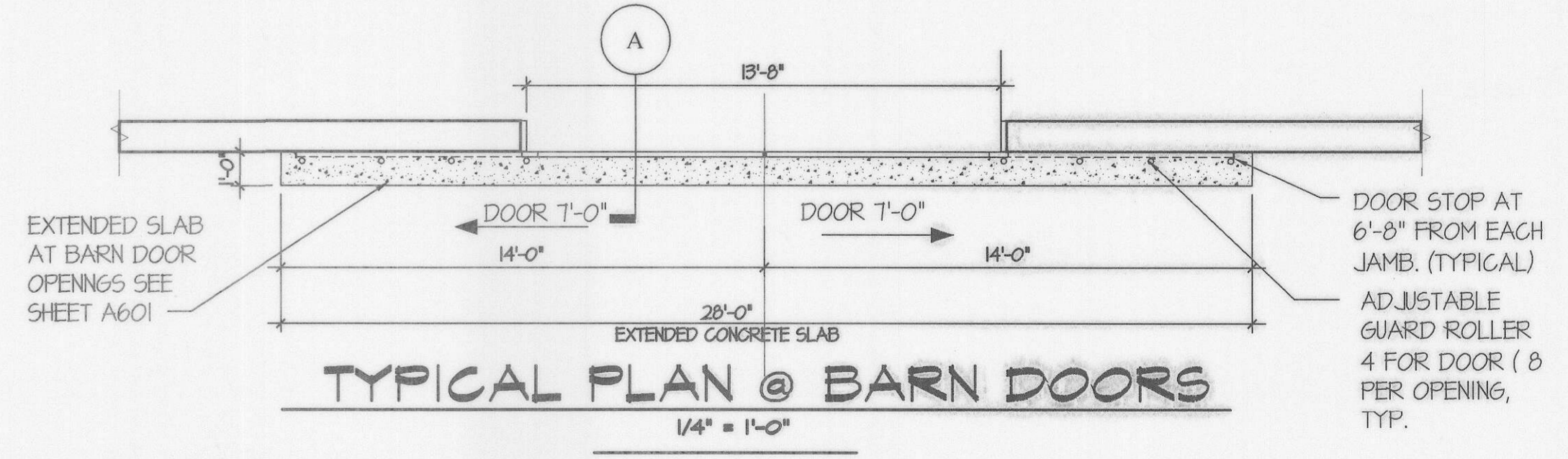


SOUTHWEST ELEVATION

2
A20
3/32" = 1'-0"



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

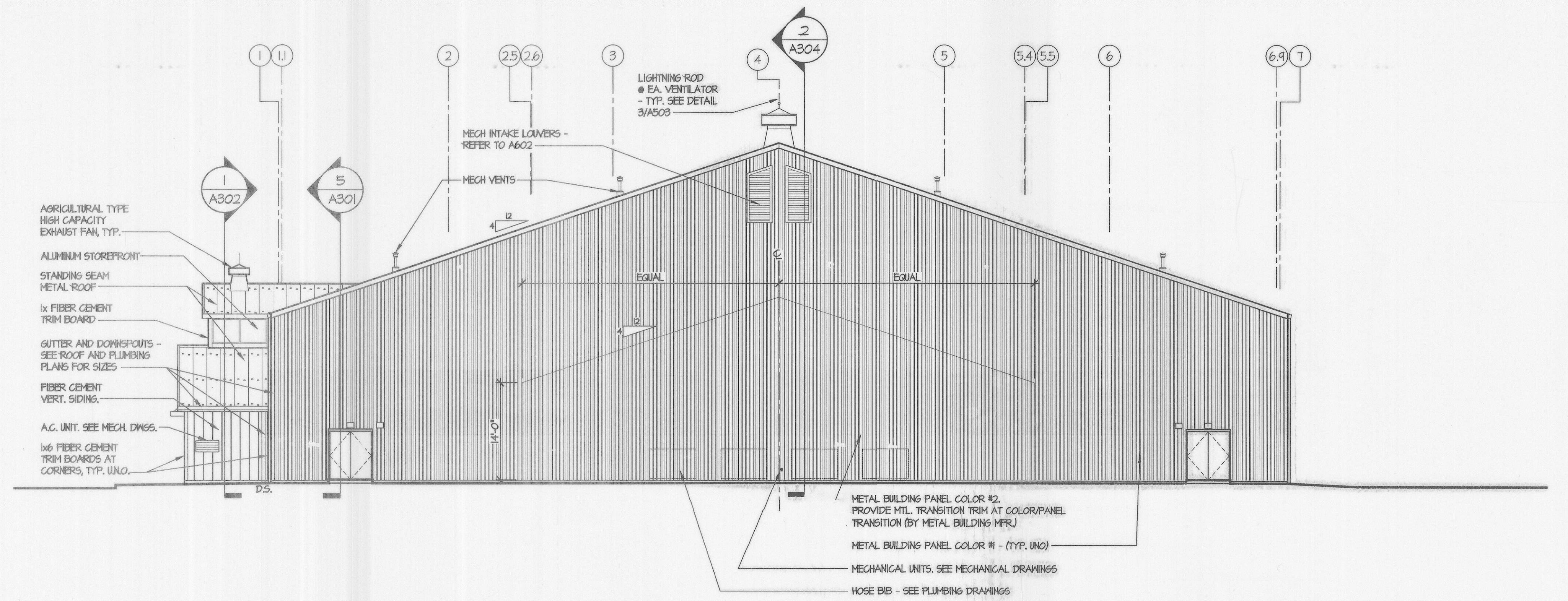


TYPICAL PLAN @ BARN DOORS
1/4" = 1'-0"

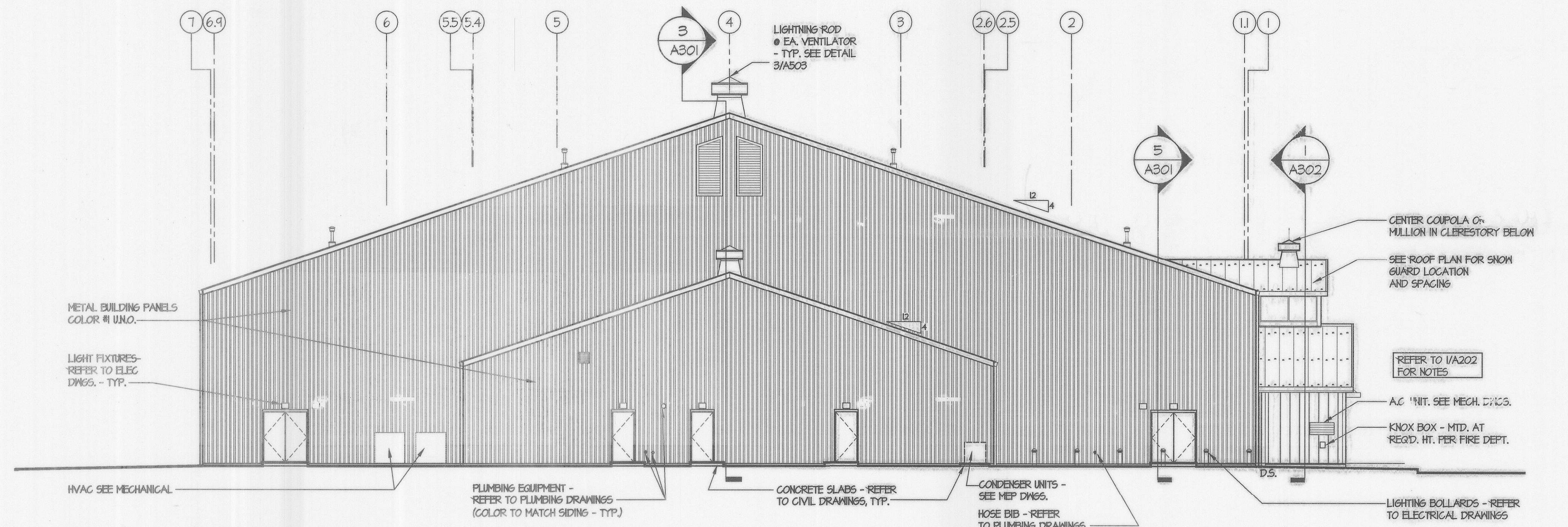
TYPICAL DETAILS @ BARN DOORS

3
A20

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NORTHWEST ELEVATION
 1/2" = 1'-0"



SOUTHEAST ELEVATION
 1/2" = 1'-0"

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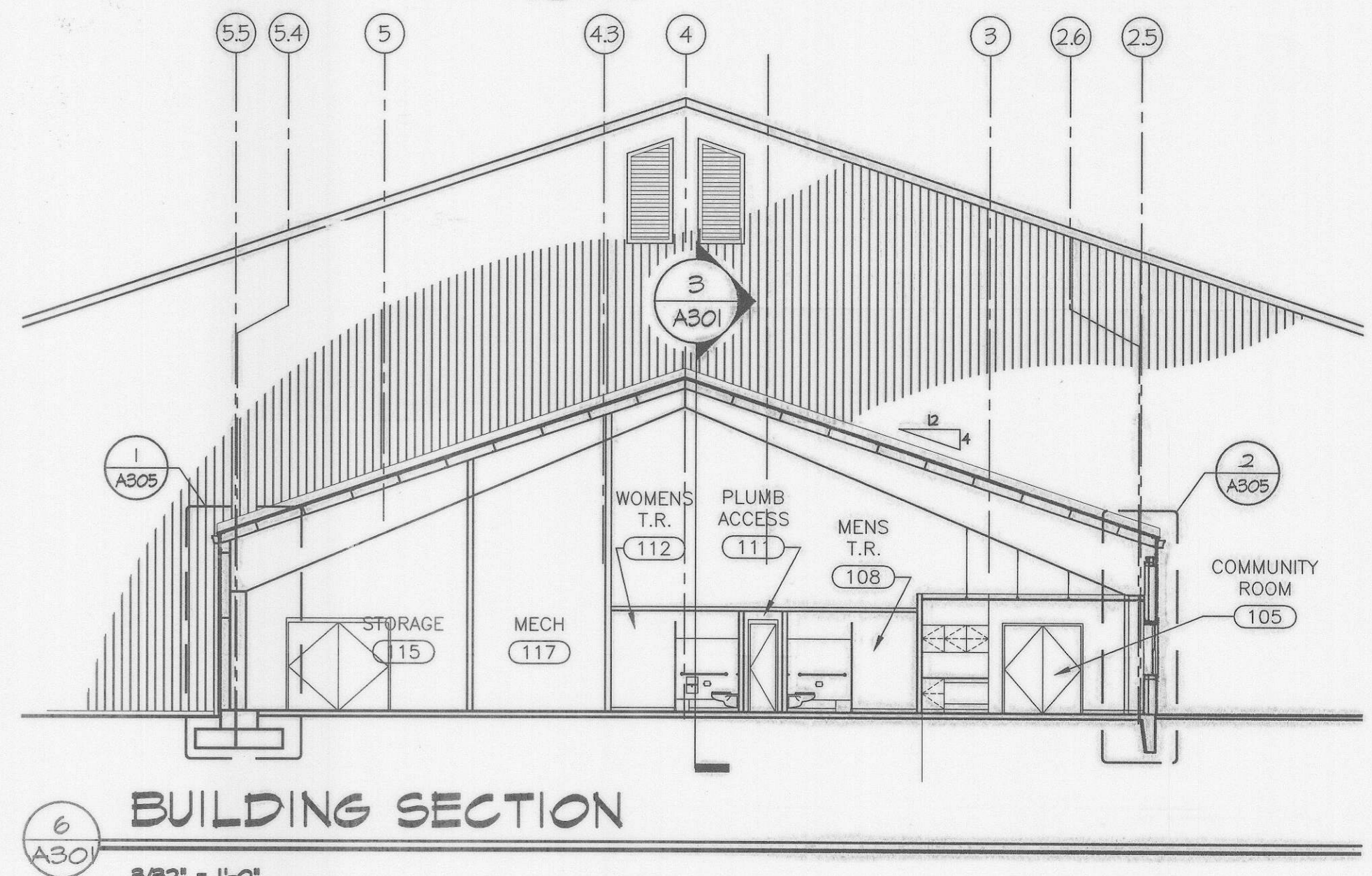
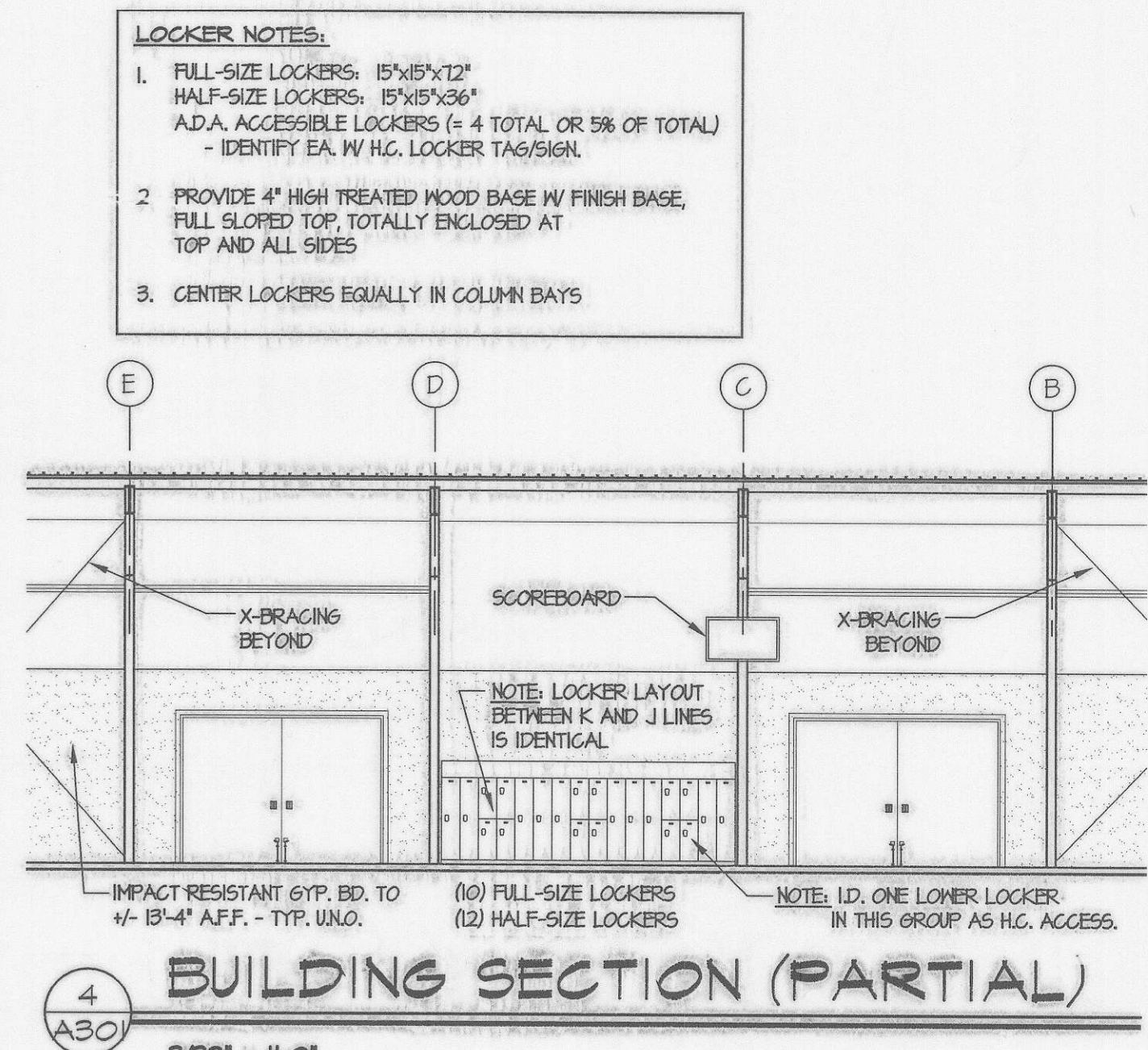
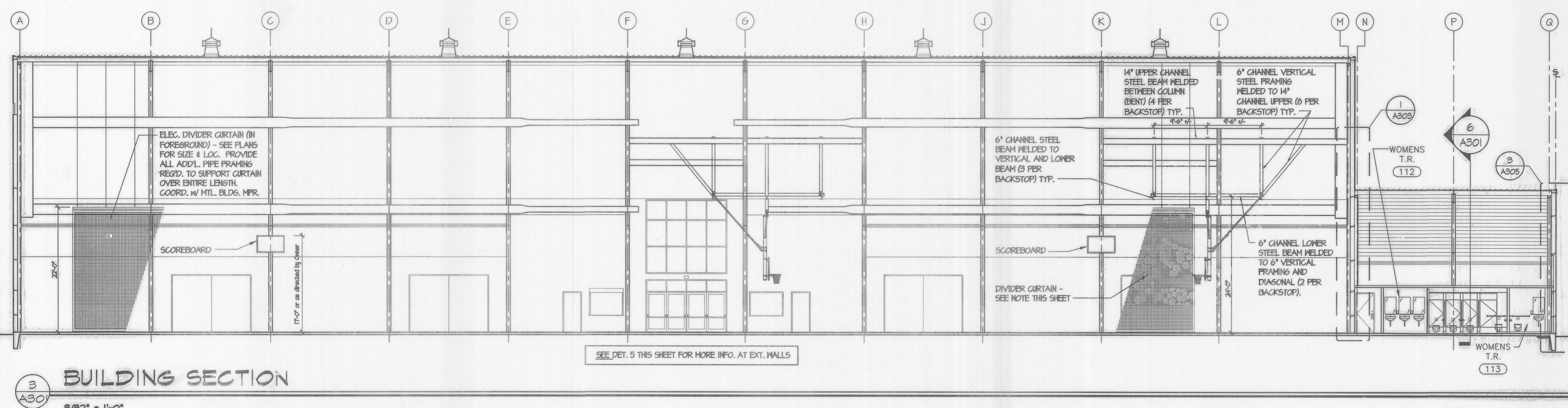
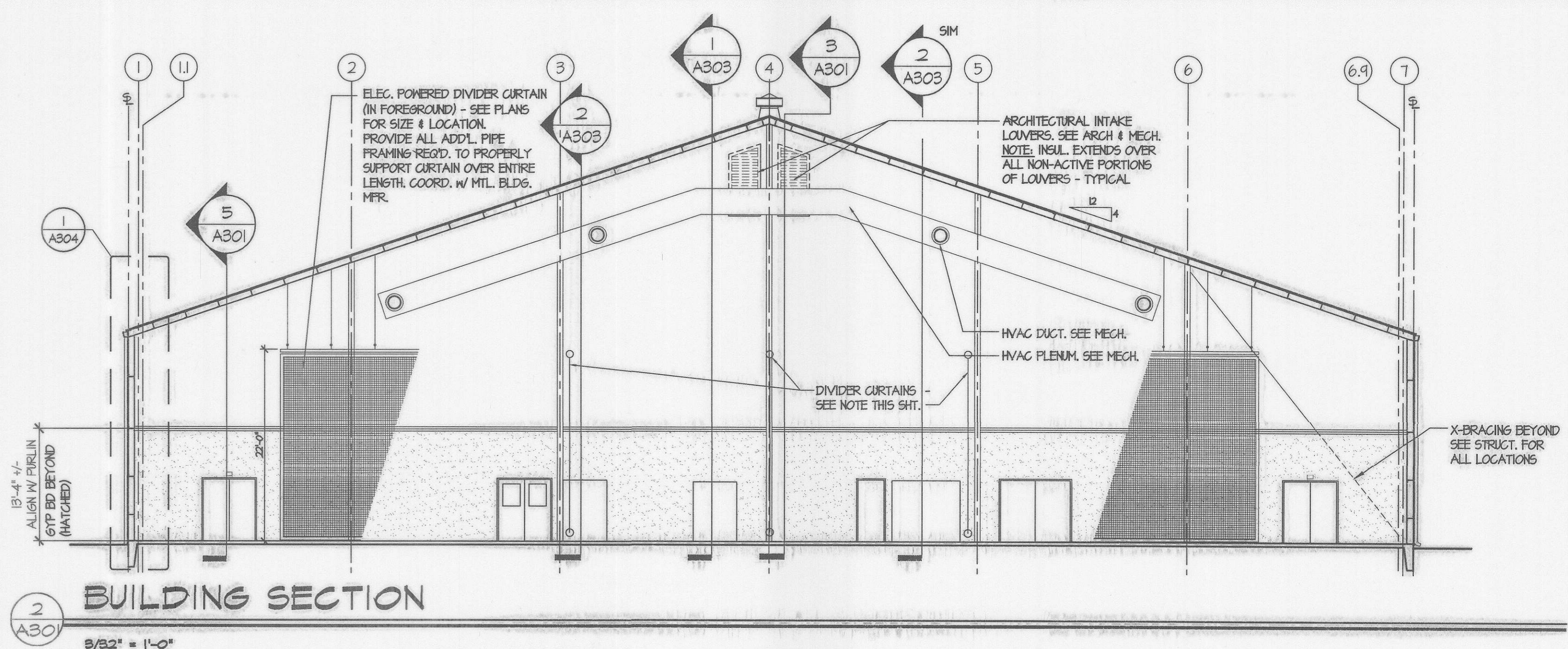
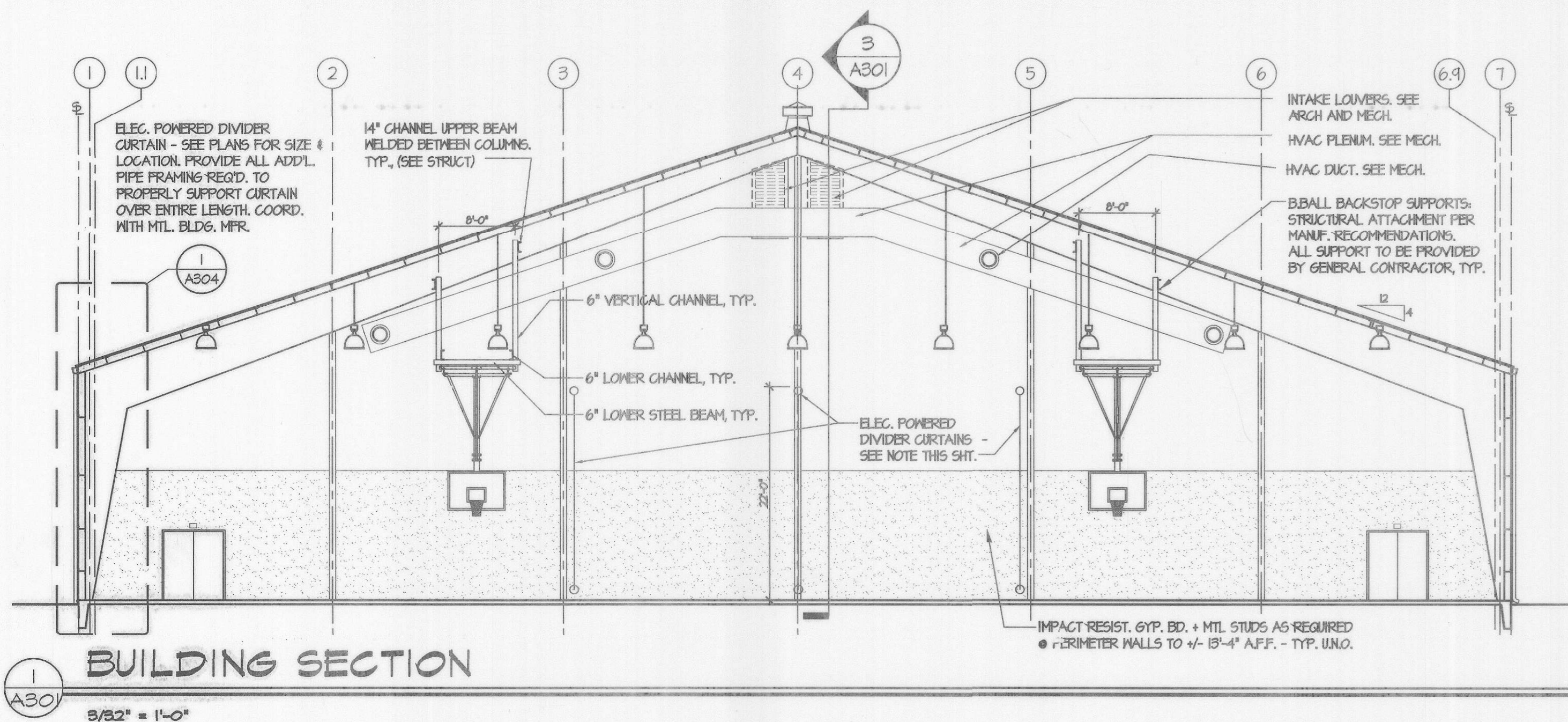
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EXTERIOR ELEVATIONS
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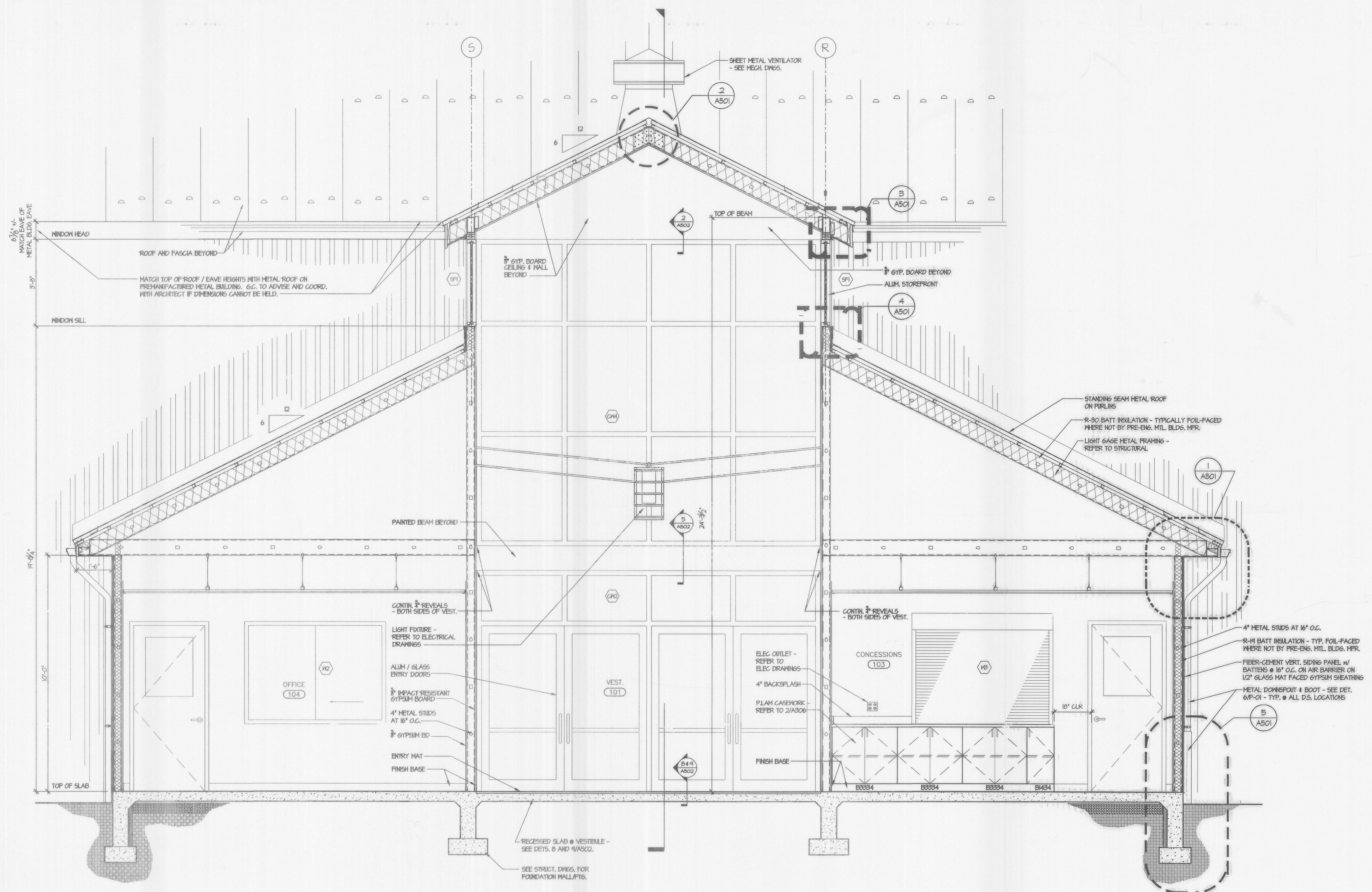
LOCKER NOTES:

- FULL-SIZE LOCKERS: 15"x15"x12"
 HALF-SIZE LOCKERS: 15"x15"x36"
 A.D.A. ACCESSIBLE LOCKERS (= 4 TOTAL OR 5% OF TOTAL)
 - IDENTIFY EA. W/ H.C. LOCKER TAG/SIGN.
- PROVIDE 4" HIGH TREATED WOOD BASE W/ FINISH BASE, FULL SLOPED TOP, TOTALLY ENCLOSED AT TOP AND ALL SIDES
- CENTER LOCKERS EQUALLY IN COLUMN BAYS

LOCKER NOTES:

- FULL-SIZE LOCKERS: 15"x15"x12"
 HALF-SIZE LOCKERS: 15"x15"x36"
 A.D.A. ACCESSIBLE LOCKERS (= 4 TOTAL OR 5% OF TOTAL)
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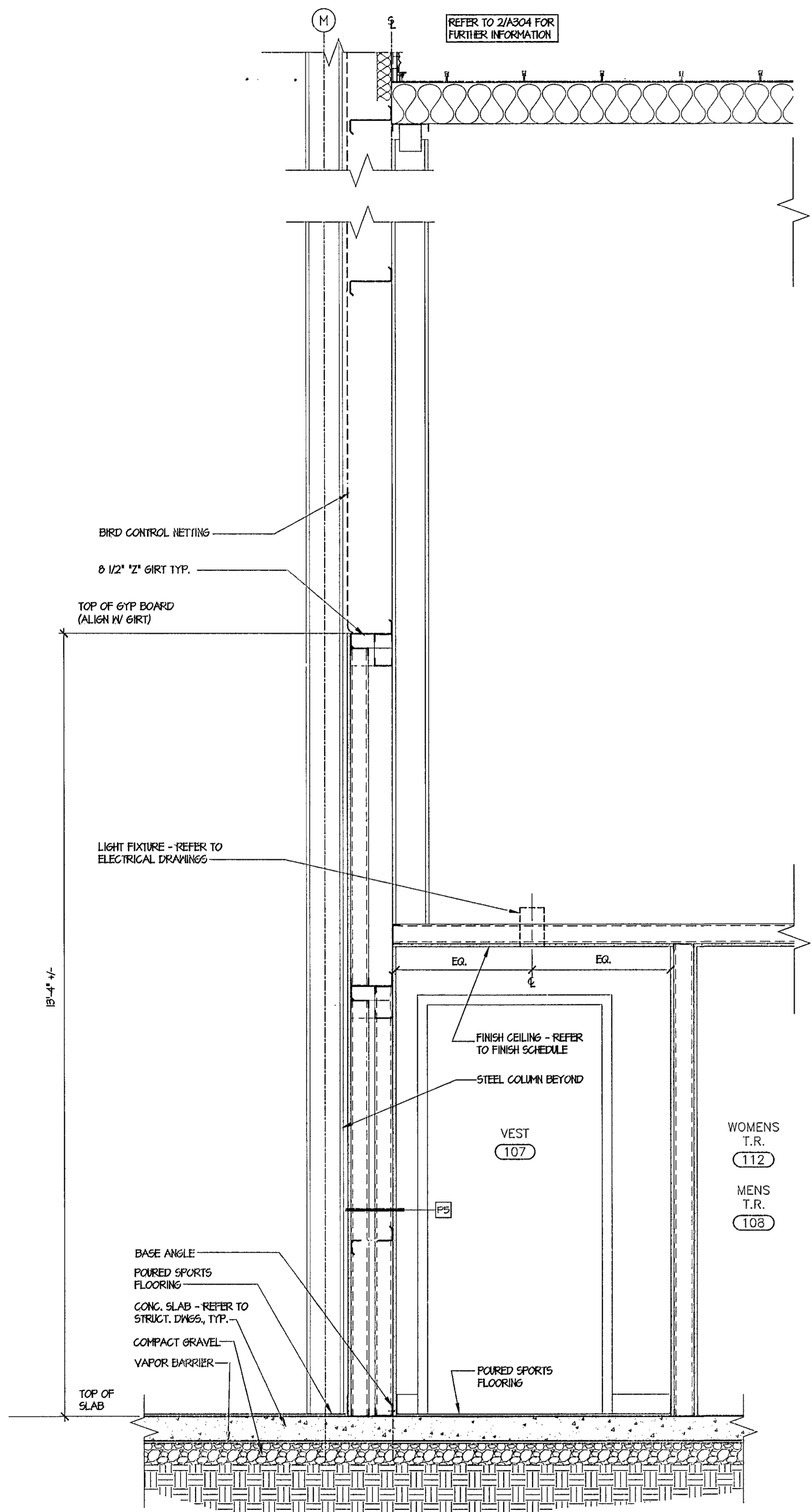
McCRONE ENGINEERING • ENVIRONMENTAL SCIENCES LAND PLANNING & SURVEYING • CONSTRUCTION SERVICES 20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 267-8621 Fax (410) 267-9932				DES: 100% SUBMITTAL 01/17/08 100% SUBMITTAL - After Owner Review Comments 11/20/08 PRN: 100% SUBMITTAL - BID SET 05/30/07 CHK: FINAL BID SET 01/14/08 DATE: 1/14/08 BY No. REVISION DATE TITLE	BUILDING SECTIONS MEADOWBROOK SPORTS CENTER HOWARD COUNTY DEPT. OF RECREATION AND PARKS	GVA George Voeth Associates, Inc. Architecture • Interior Design 5501 Twin Knolls Rd., Suite 108 Columbia, Maryland 21045 Tel. (410) 992-0000 Fax (410) 992-2719 Email gva@cvvaarchitects.com	Columbia Engineering Inc. Structural Engineers 8470-A Dobbin Road Columbia, Maryland 21045 Wash. Telephone 301.621.4015 Balto. Telephone 410.992.9970 Fax 410.992.0627 E-mail columbiacolumbiainc@comcast.net	SCALE AS SHOWN SHEET A 301
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SECTION THROUGH OFFICE, VESTIBULE, AND CONCESSION ROOM

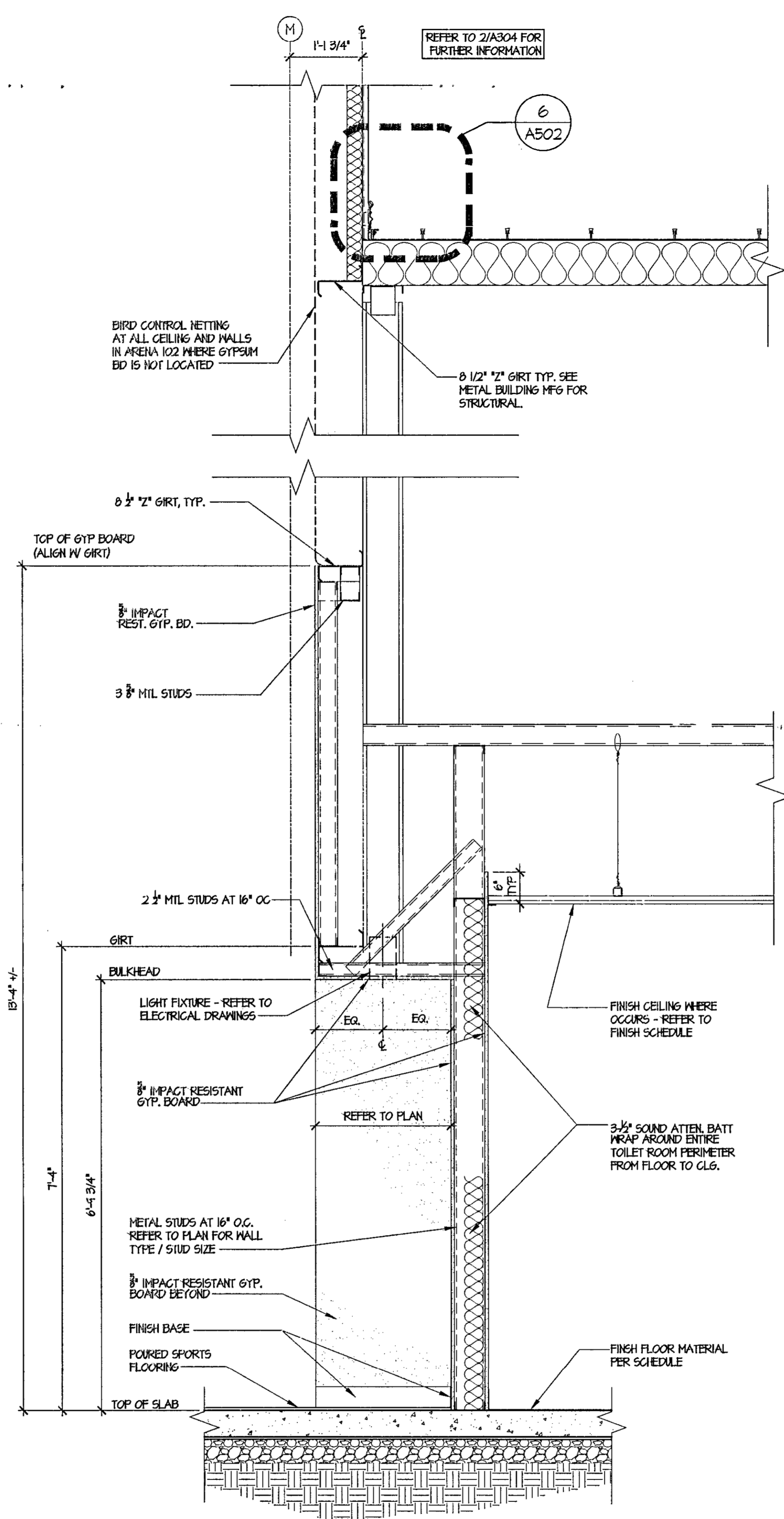
1/2" = 1'-0"

<p>McCRONE ENGINEERING & ENVIRONMENTAL SCIENCES LAND PLANNING & SURVEYING CONSTRUCTION SERVICES 30 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 287-8821 Fax (410) 287-9932 ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY</p>	DES:	100% SUBMITTAL	01/17/06	<p>BUILDING SECTION MEADOWBROOK SPORTS CENTER HOWARD COUNTY DEPT. OF RECREATION AND PARKS</p>	<p>GVA George Vaeth Associates, Inc. Architecture - Interior Design 8501 Twin Knolls Rd., Suite 108 Columbia, Maryland 21045 Tel. (410) 997-1000 Fax (410) 997-2719 Email gva@gevaarchitects.com</p>	<p>Columbia Engineering Inc. Structural Engineers 8470-A Dobbin Road Columbia, Maryland 21045 Wash. Telephone 301.621.4015 Balt. Telephone 410.992.9970 Fax 410.992.0627 E-mail columbiac@colbiengineering.com</p>	SCALE
	DRN:	100% SUBMITTAL - After Owner Review Comments	11/20/06				AS SHOWN
	CHK:	100% SUBMITTAL - BID SET	05/30/07				SHEET
	DATE: 1/14/08	BY No.	FINAL BID SET				01/14/08
							302



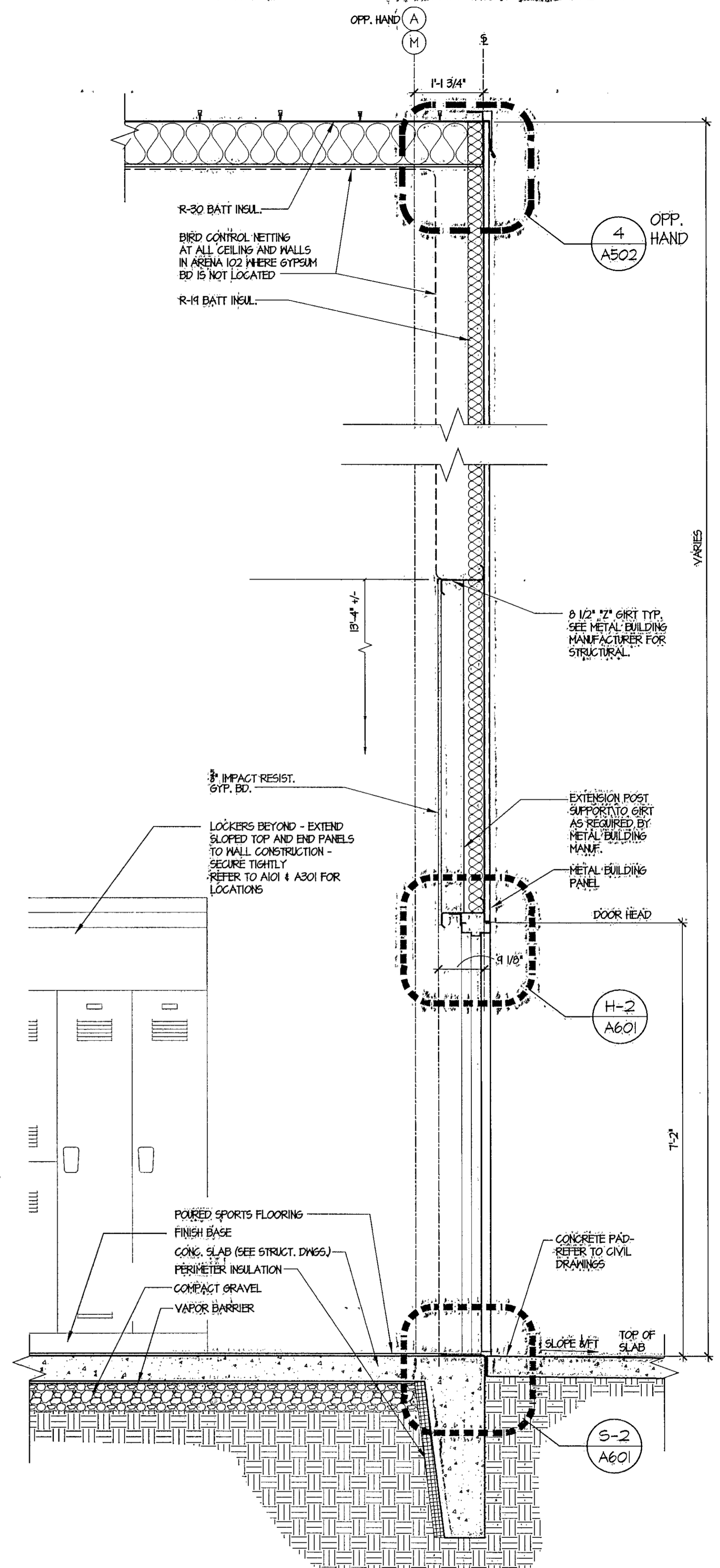
1 WALL SECTION

A303 3/4" = 1'-0"



2 WALL SECTION

A303 3/4" = 1'-0"



3 WALL SECTION

A303 3/4" = 1'-0"

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 Fax (410) 267-8932
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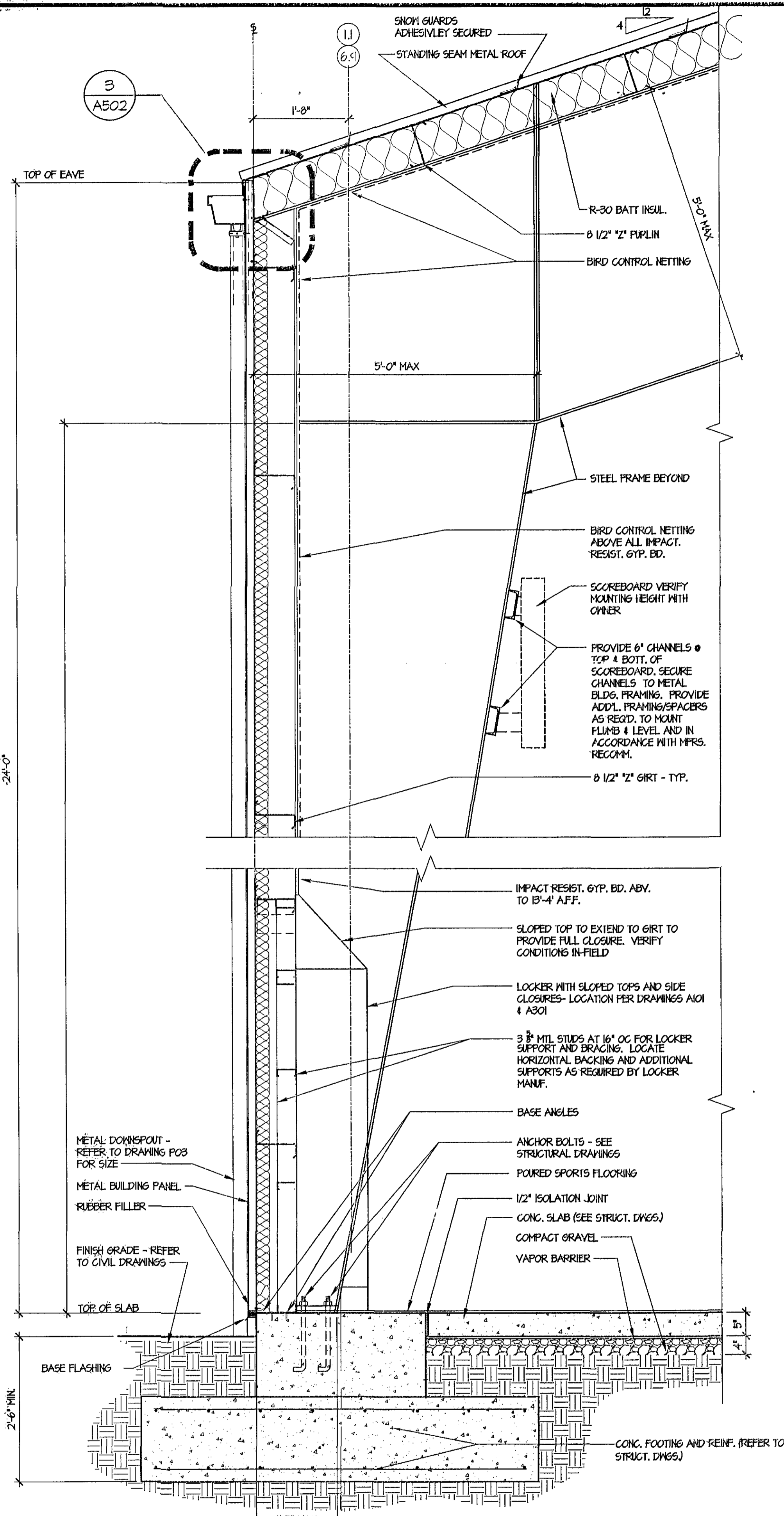
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		100% SUBMITTAL - After Owner Review Comments	11/20/06
DRN:		100% SUBMITTAL - BID SET	05/30/07
		FINAL BID SET	01/14/08
CHK:			
DATE:	1/14/08	BY	No.
		REVISION	DATE

WALL SECTIONS
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 George Voeth Associates, Inc.
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 6601 Twin Knolls Rd., Suite 108
 Columbia, Maryland 21046
 Tel. (410) 997-1000 Fax (410) 997-2797
 Email: gva@voetharchitects.com

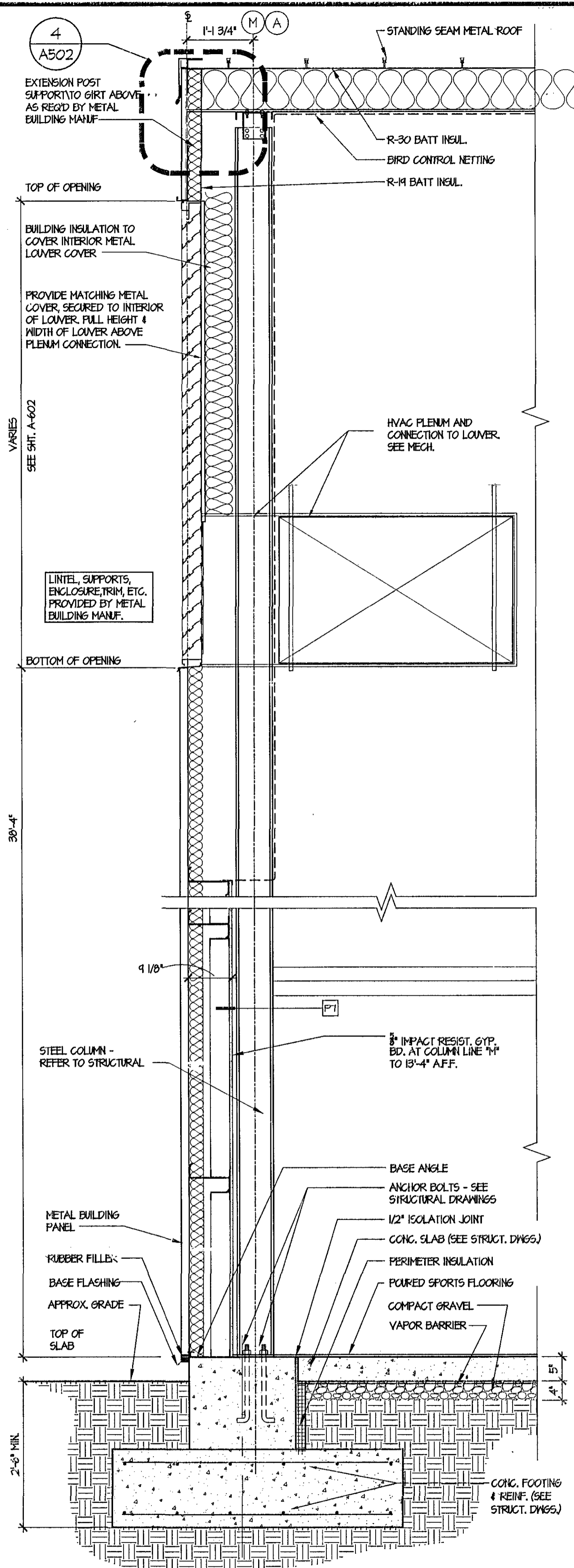
Columbia Engineering Inc.
 Structural Engineers
 6470-A Douthett Road
 Columbia, Maryland 21045
 Wash. Telephone 301.621.4015
 Balto. Telephone 410.992.9970
 Fax 410.992.0827
 E-mail: columbiac@colombiaing.com

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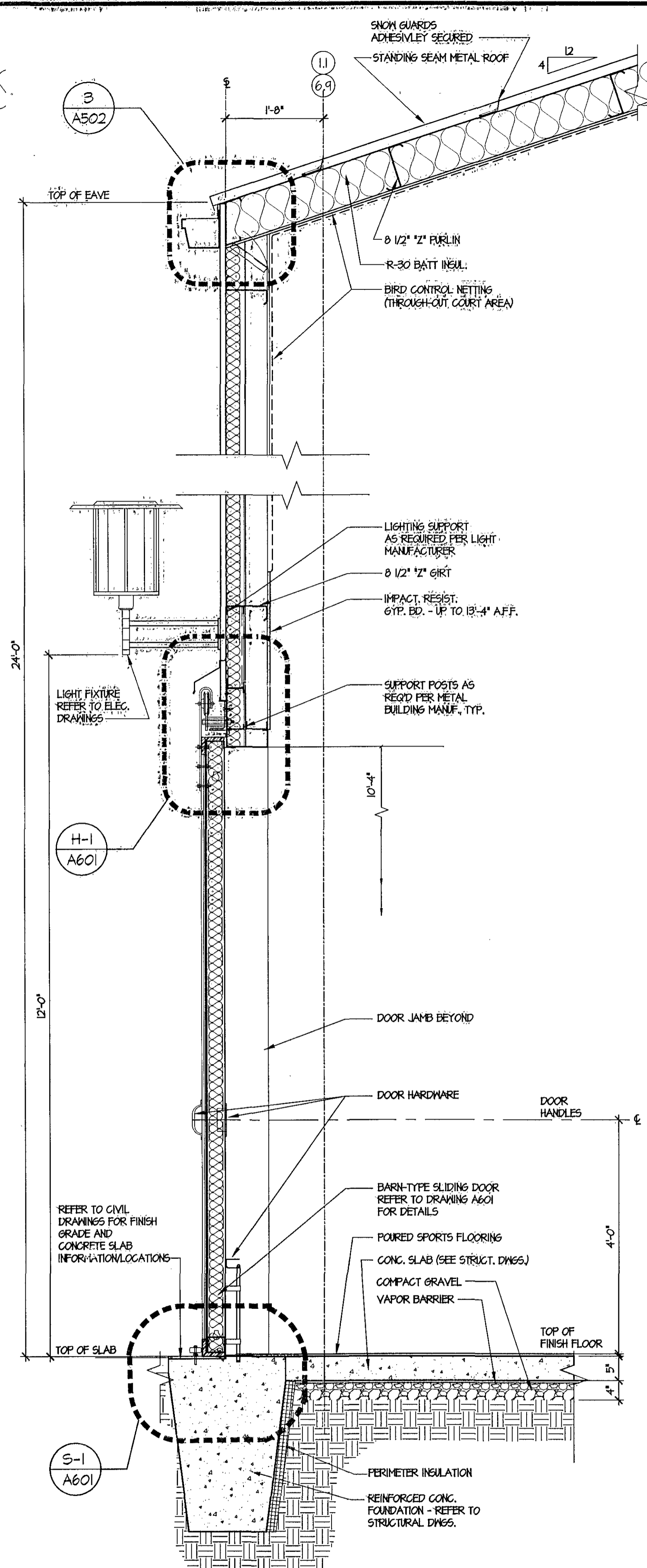
1 WALL SECTION

A304 3/4" = 1'-0"



2 WALL SECTION

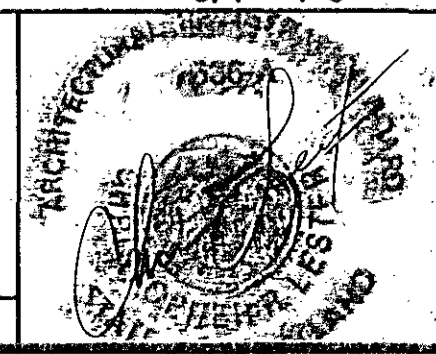
A304 3/4" = 1'-0"



3 WALL SECTION

A304 3/4" = 1'-0"

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 Fax (410) 297-9932
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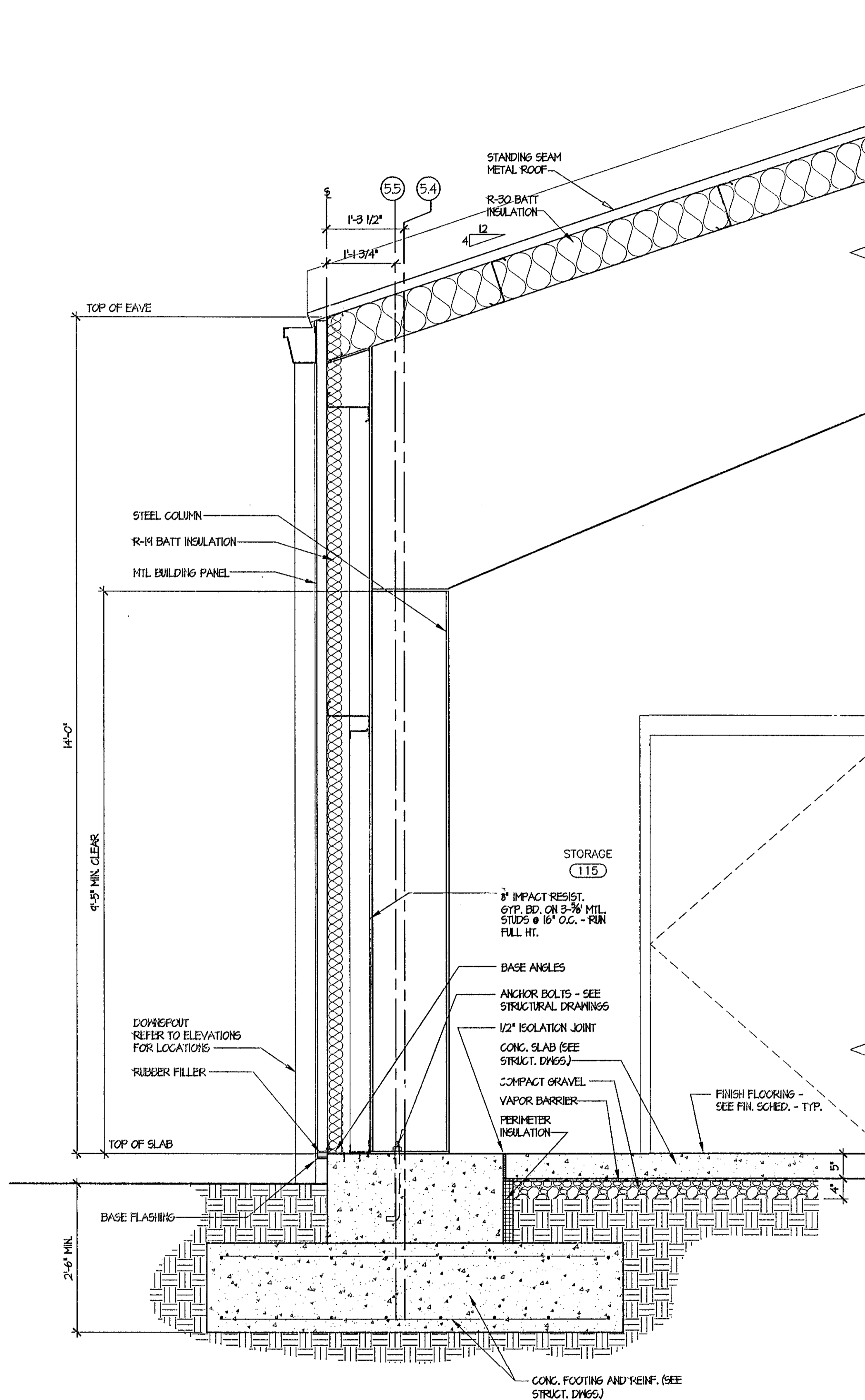
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WALL SECTIONS
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 Wash. Telephone 301.821.4015
 Balto. Telephone 410.992.9970
 Fax 410.992.0627
 E-mail columbia@columbiaing.com

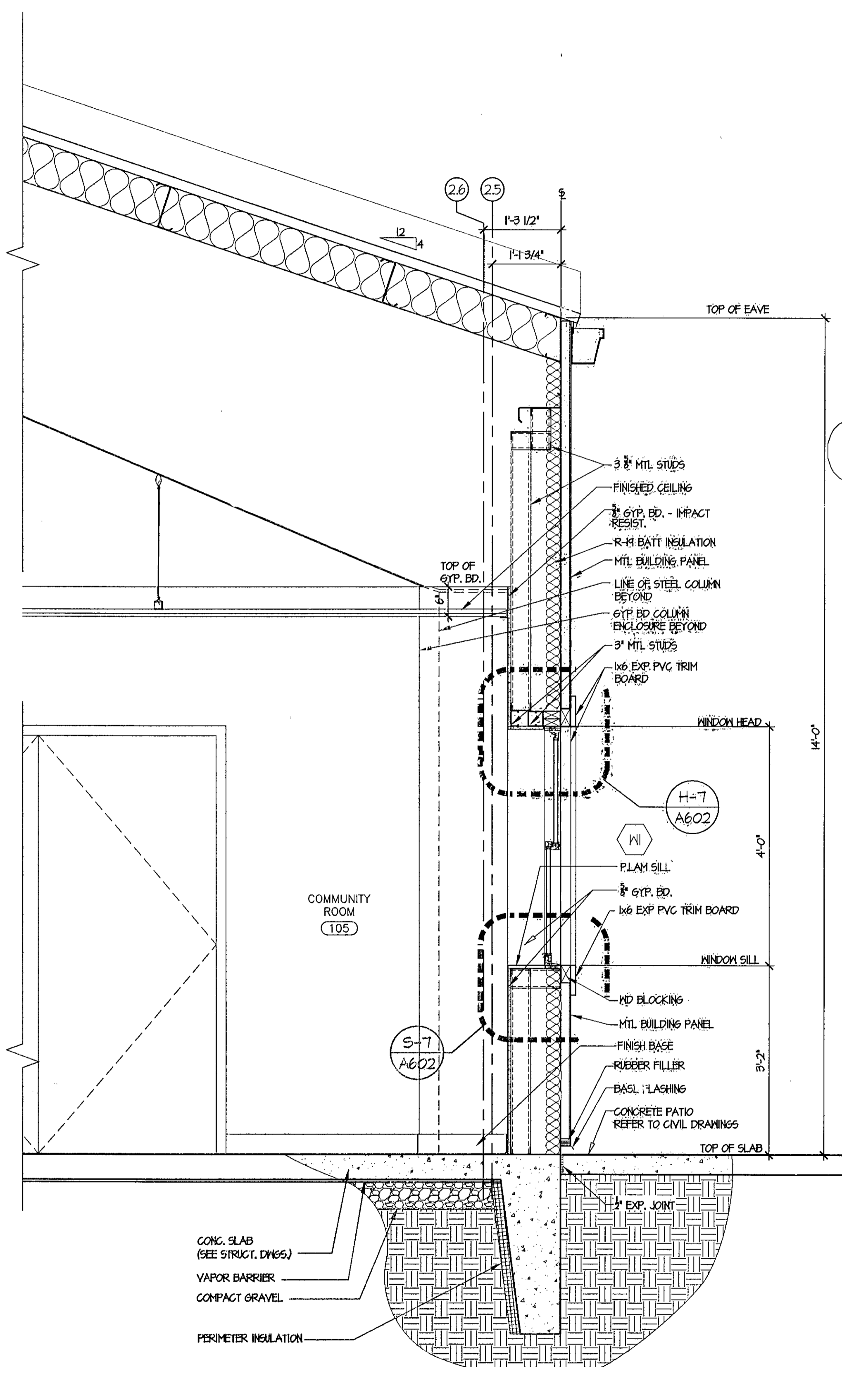
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1 WALL SECTION

A305

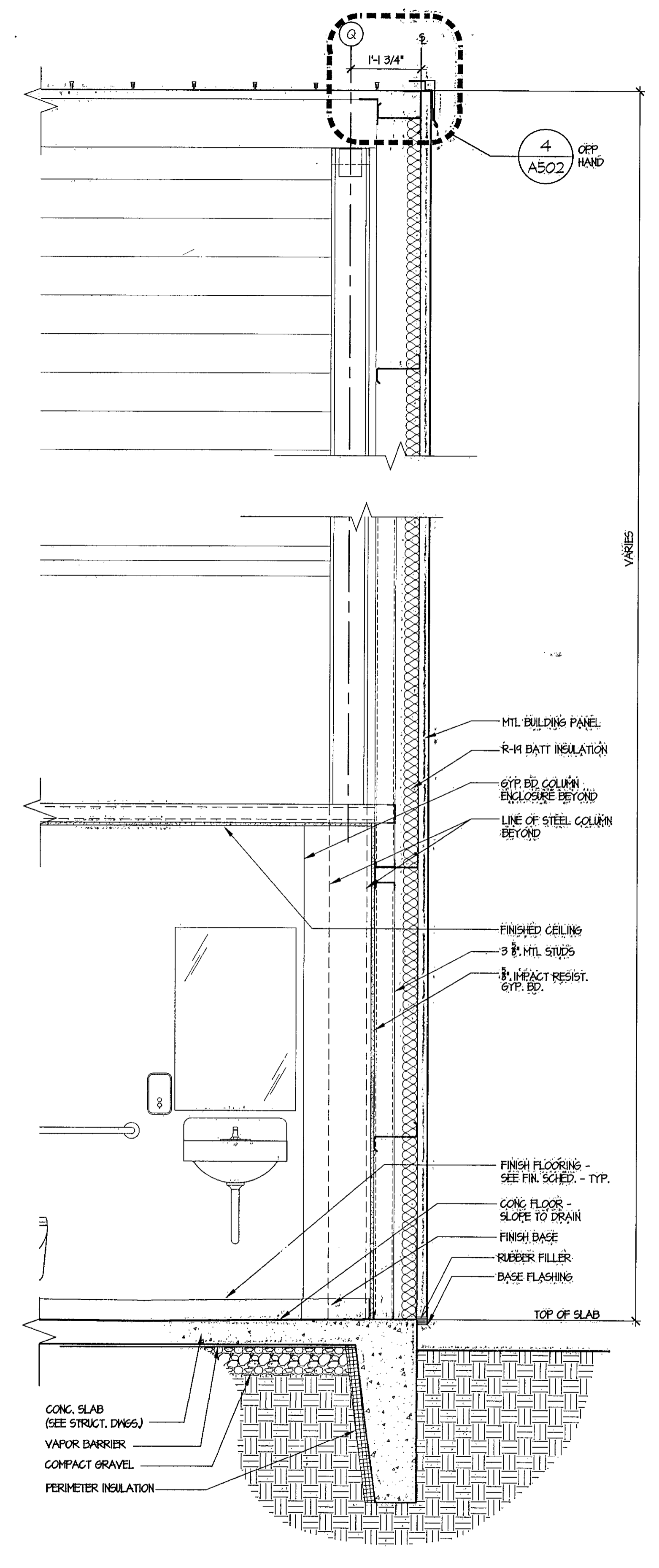
3/4" = 1'-0"



2 WALL SECTION

A305

3/4" = 1'-0"

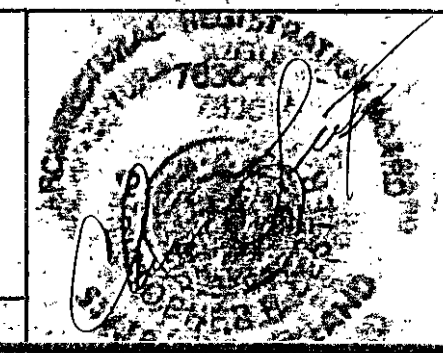


3 WALL SECTION

A305

3/4" = 1'-0"

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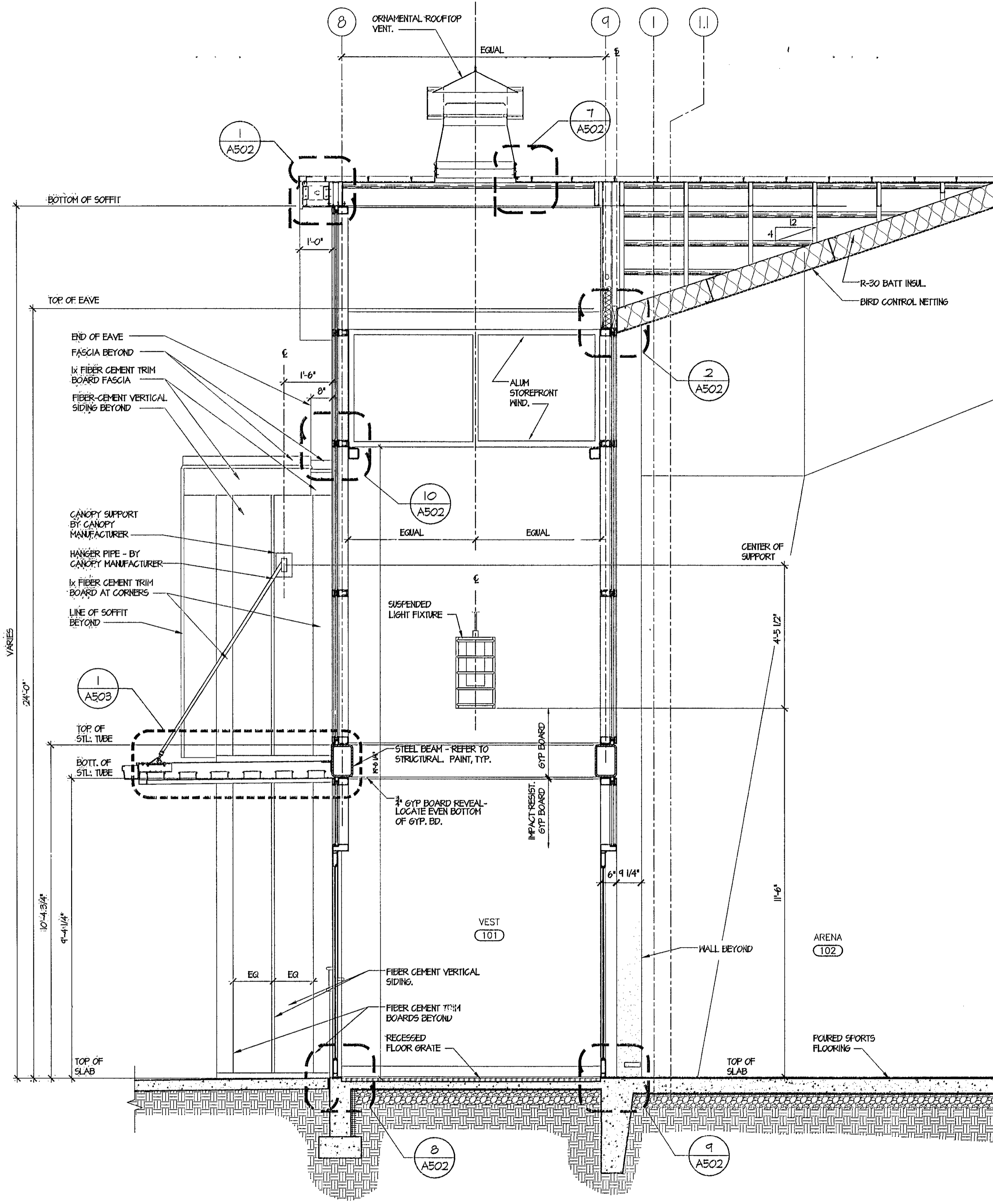
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WALL SECTIONS
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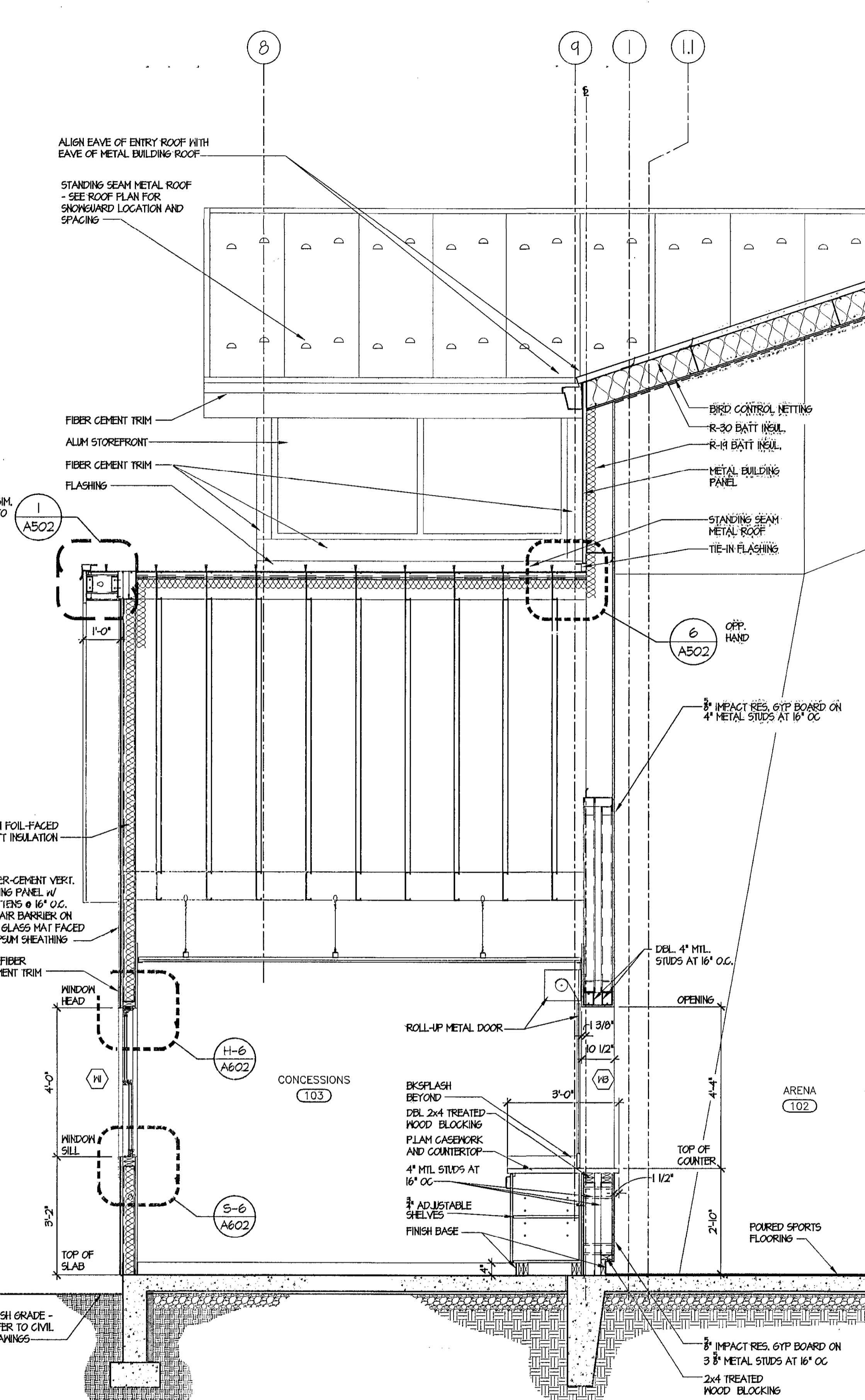
GVA
 George Voith Associates, Inc.
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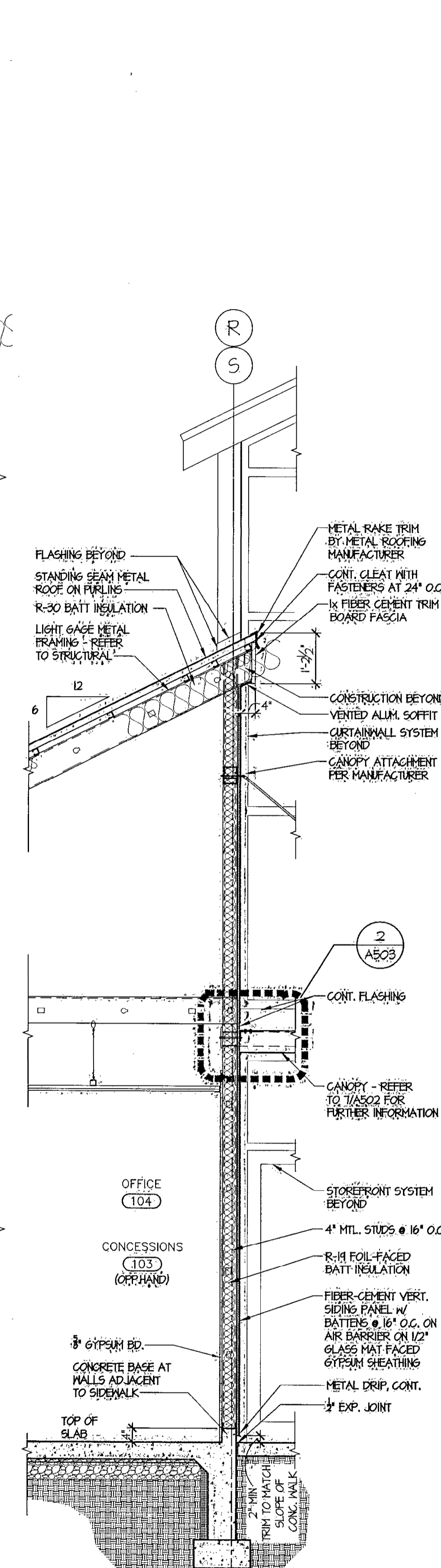
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1 WALL SECTION



2 WALL SECTION



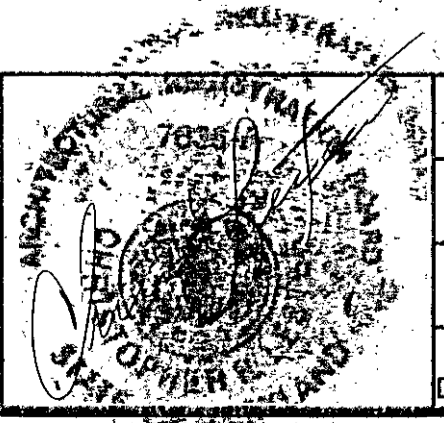
3 WALL SECTION

1 A306 1/2" = 1'-0"

2 A306 1/2" = 1'-0"

3 A306 1/2" = 1'-0"

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WALL SECTIONS
MEADOWBROOK SPORTS CENTER
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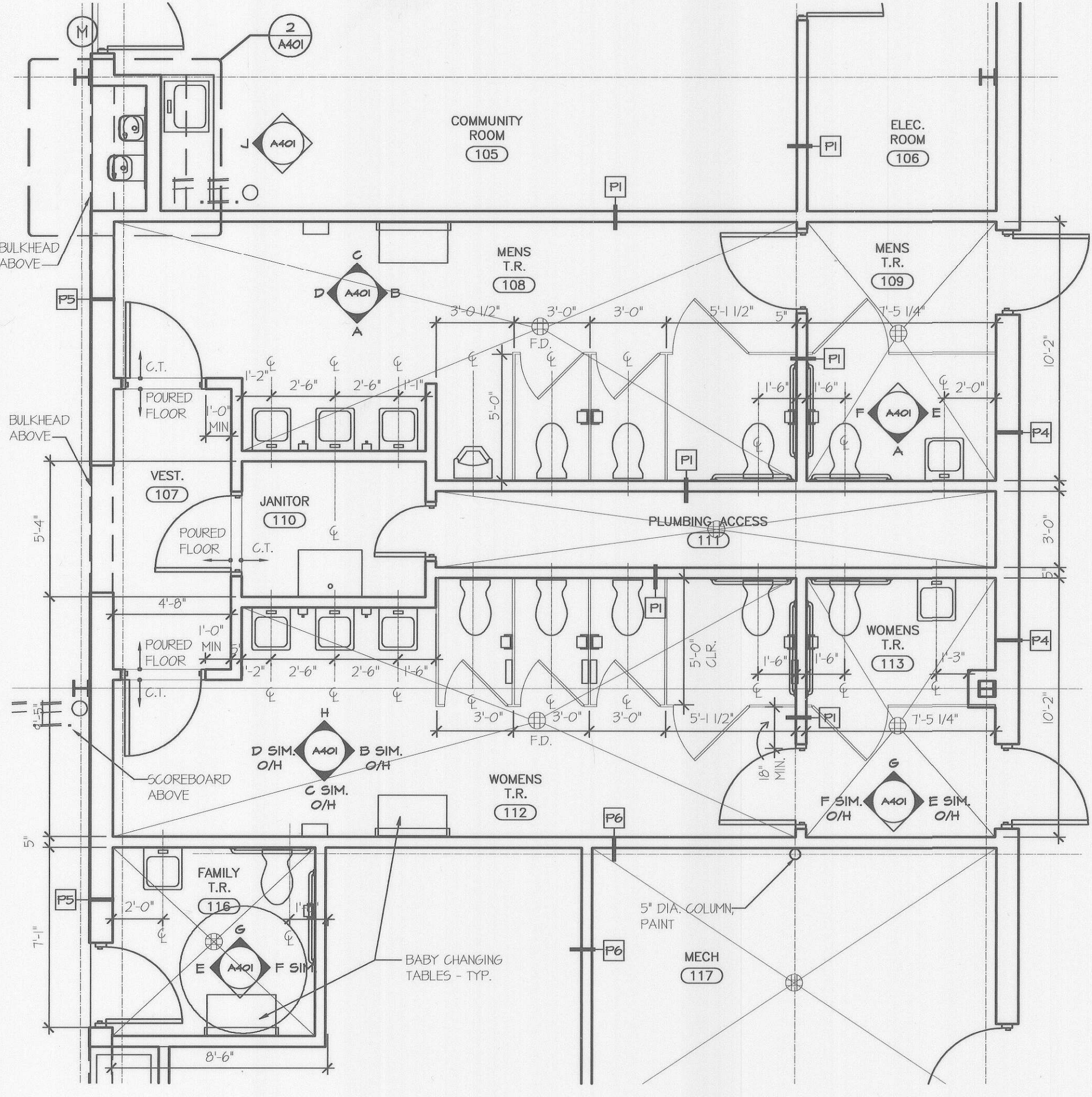
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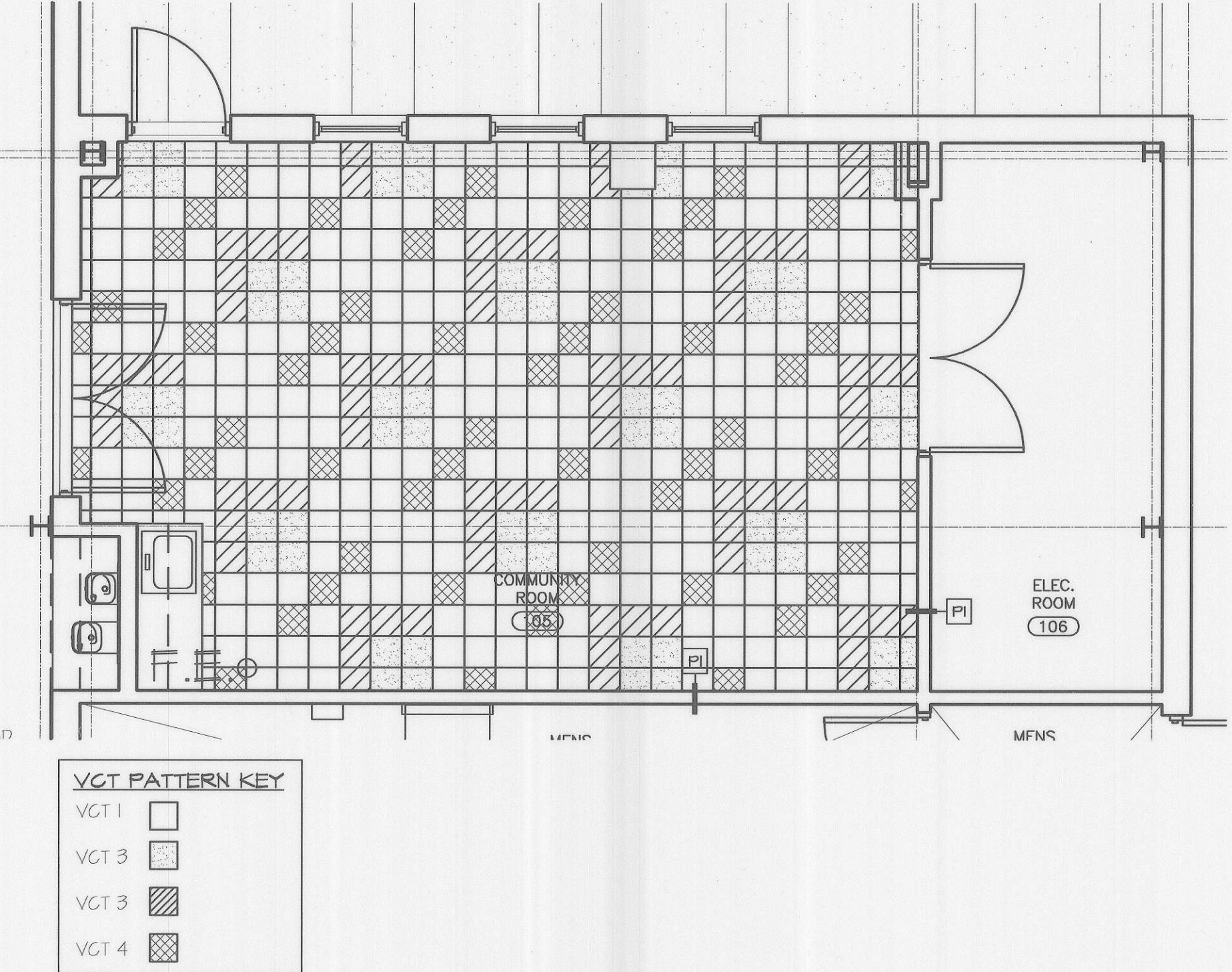
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FINISH SCHEDULE										
SPACE	SURFACE MAT'L	FLOOR	BASE	WALLS	CEILING	CLG. HT.	REMARKS			
	CONCRETE SILLER WITH COMPARTMENT TILE	POURED TILE FLOORING	MALCOLM LAY							
	RUBBER BASE	CERAMIC TILE @ 12" X 12" W/ ALLIGATOR TOP								
	GYPSUM BOARD-PAINT	IMPACT RES. GYP. BOARD-PAINT	CERAMIC TILE (SEE DETAIL)							
	2X4 ACROSS RINGS	GYPSUM BOARD-PAINT	IMPACT RES. GYP. BOARD-PAINT	EXPOSED STRUCTURE-PAINT						
RM. NO.	ROOM NAME	1	2	3	4	5	6	7	8	9
101	VESTIBULE	1	2	3	4	5	6	7	8	9
102	ARENA	1	2	3	4	5	6	7	8	9
	--- not used ---									
103	CONCESSIONS	2	3	4	5	6	7	8	9	
104	OFFICE	2	3	4	5	6	7	8	9	
105	COMMUNITY ROOM	2	3	4	5	6	7	8	9	
106	ELECTRICAL ROOM	1	2	3	4	5	6	7	8	
107	VESTIBULE	1	2	3	4	5	6	7	8	
108	MEN'S TOILET ROOM	3	4	5	6	7	8	9		
109	MEN'S TOILET ROOM	3	4	5	6	7	8	9		
110	JANITOR CLOSET	2	3	4	5	6	7	8	9	
111	PLUMBING ACCESS	1	2	3	4	5	6	7	8	
112	WOMEN'S TOILET ROOM	3	4	5	6	7	8	9		
113	WOMEN'S TOILET ROOM	3	4	5	6	7	8	9		
114	VENDING	2	3	4	5	6	7	8	9	
115	STORAGE	2	3	4	5	6	7	8	9	
116	FAMILY TOILET ROOM	3	4	5	6	7	8	9		
117	MECHANICAL ROOM	1	2	3	4	5	6	7	8	

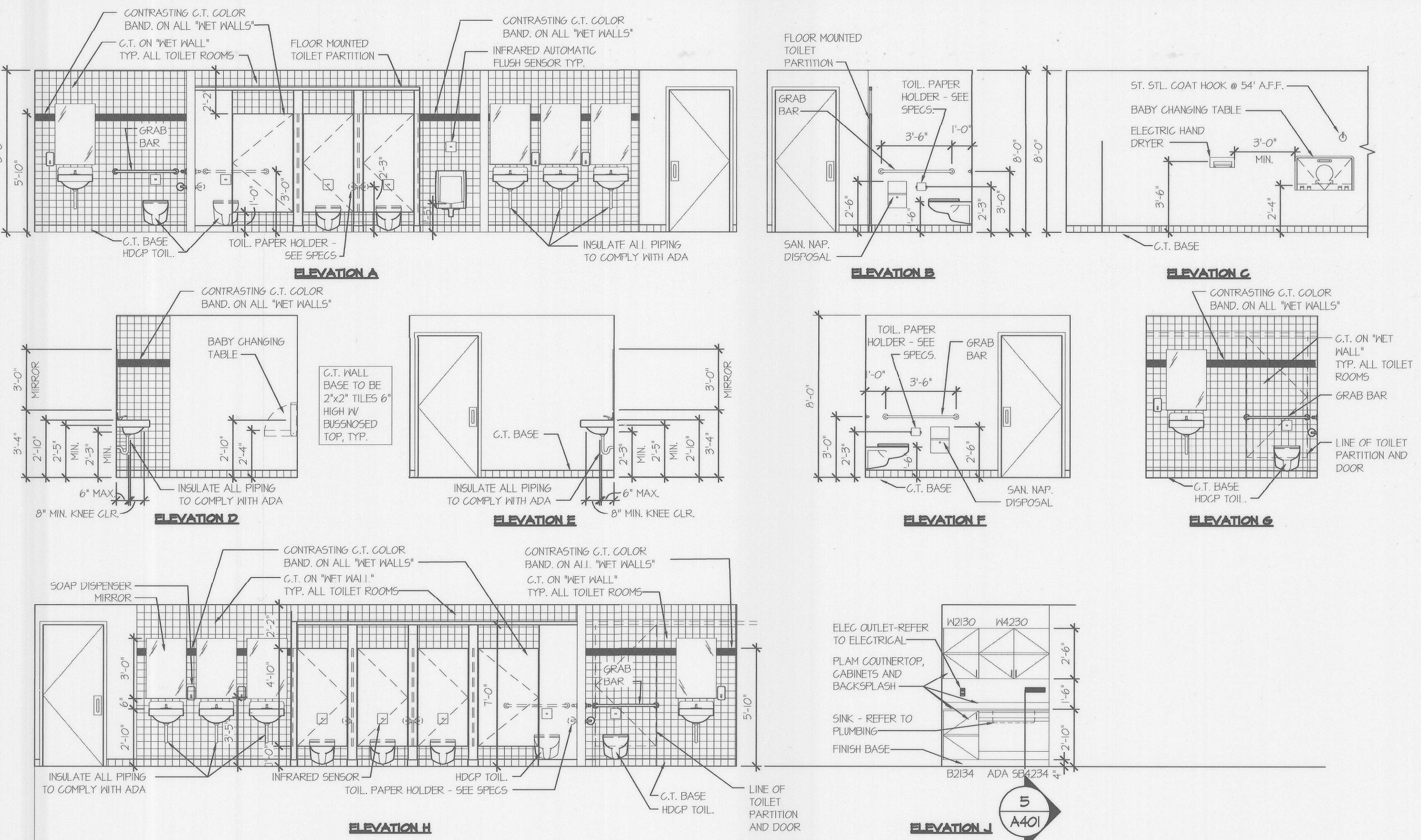
NOTES:
 1. PROVIDE FLOOR TRANSITION/REDUCER STRIP WHERE SPORTS FLOORING MEETS ANOTHER FLOOR FINISH OR SLAB.
 2. PROVIDE BIRD CONTROL NETTING IN ALL LOCATIONS THROUGHOUT ARENA (CEILING & WALLS) WHERE GYPSUM BOARD IS NOT LOCATED.
 3. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ON BUILDING INTERIOR. SEE SPECS FOR SIZE AND MATERIAL.



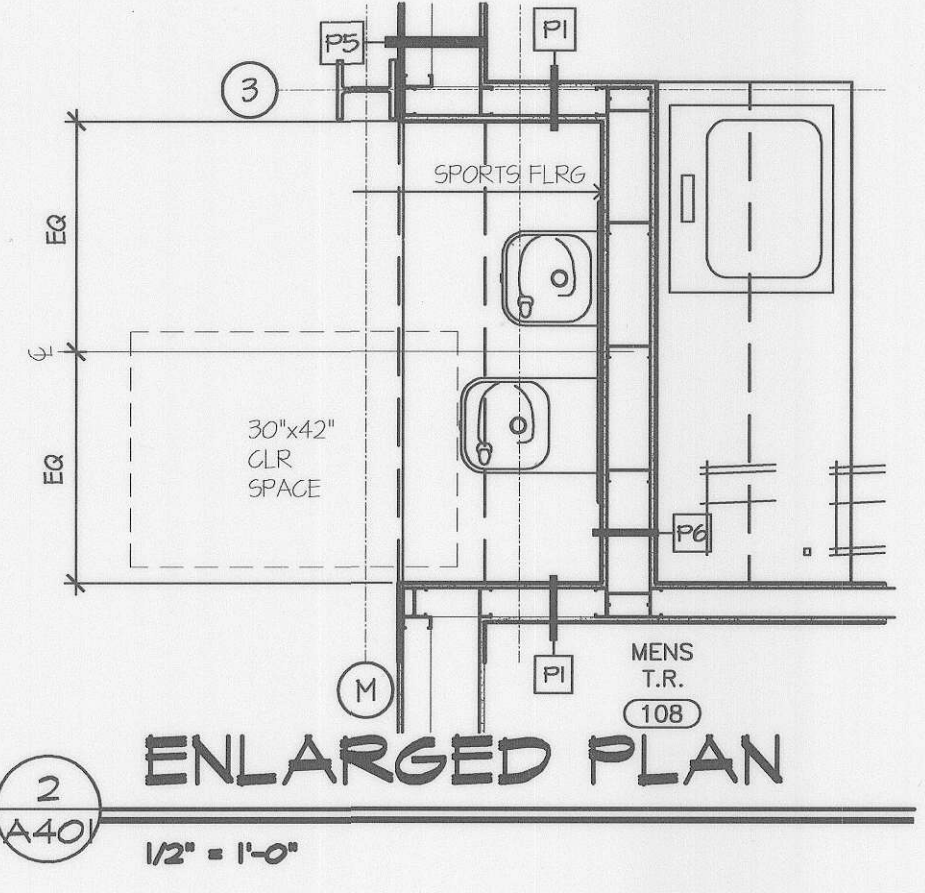
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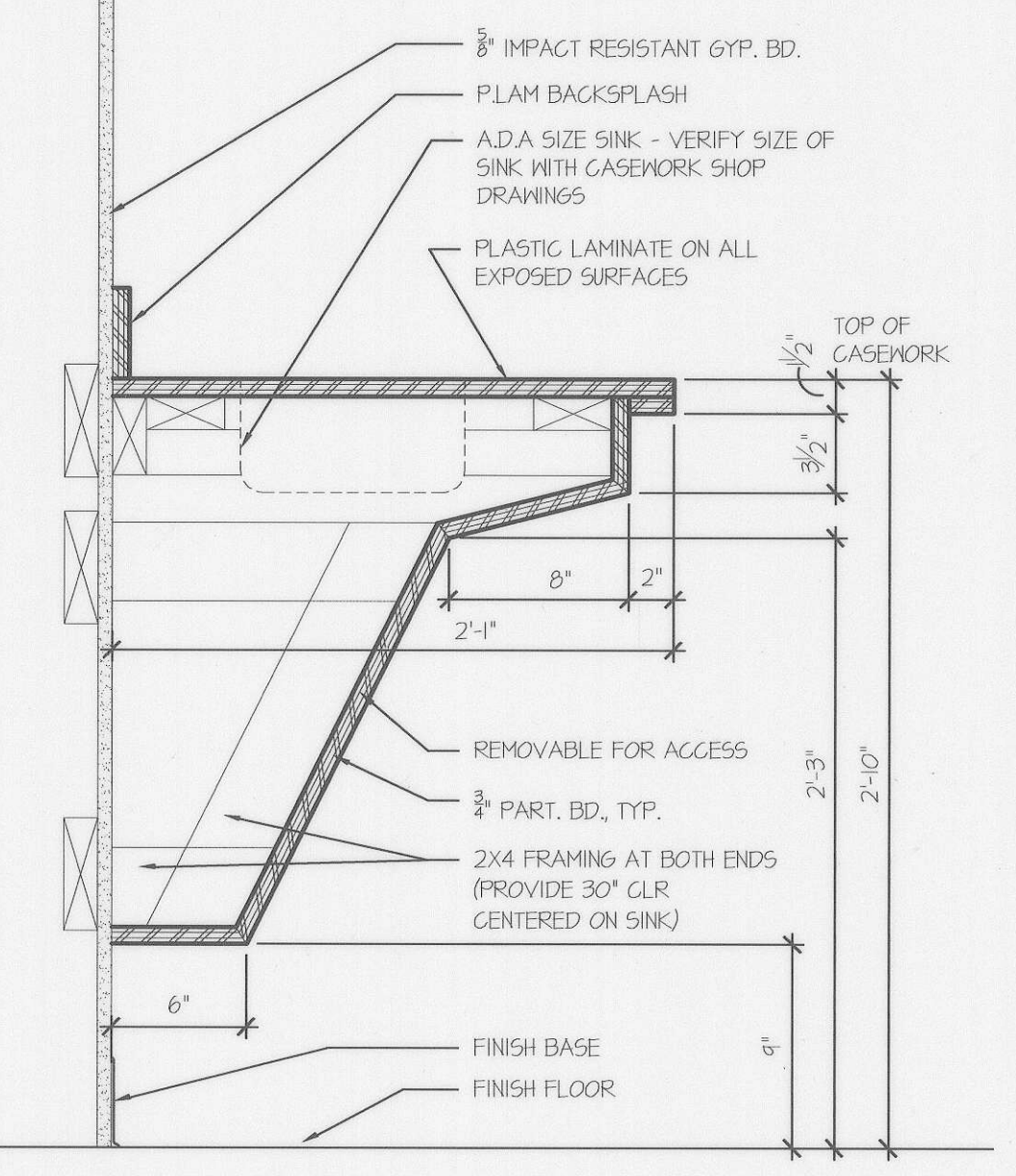
1A A40 1/4\"/>



INTERIOR ELEVATIONS
1/4\"/>



2 A40 1/2\"/>



5 A40 1 1/2\"/>

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ARCHITECTURAL REGISTRATION BOARD
 7636-A
 STATE OF MARYLAND
 PHILIP H. LESTER

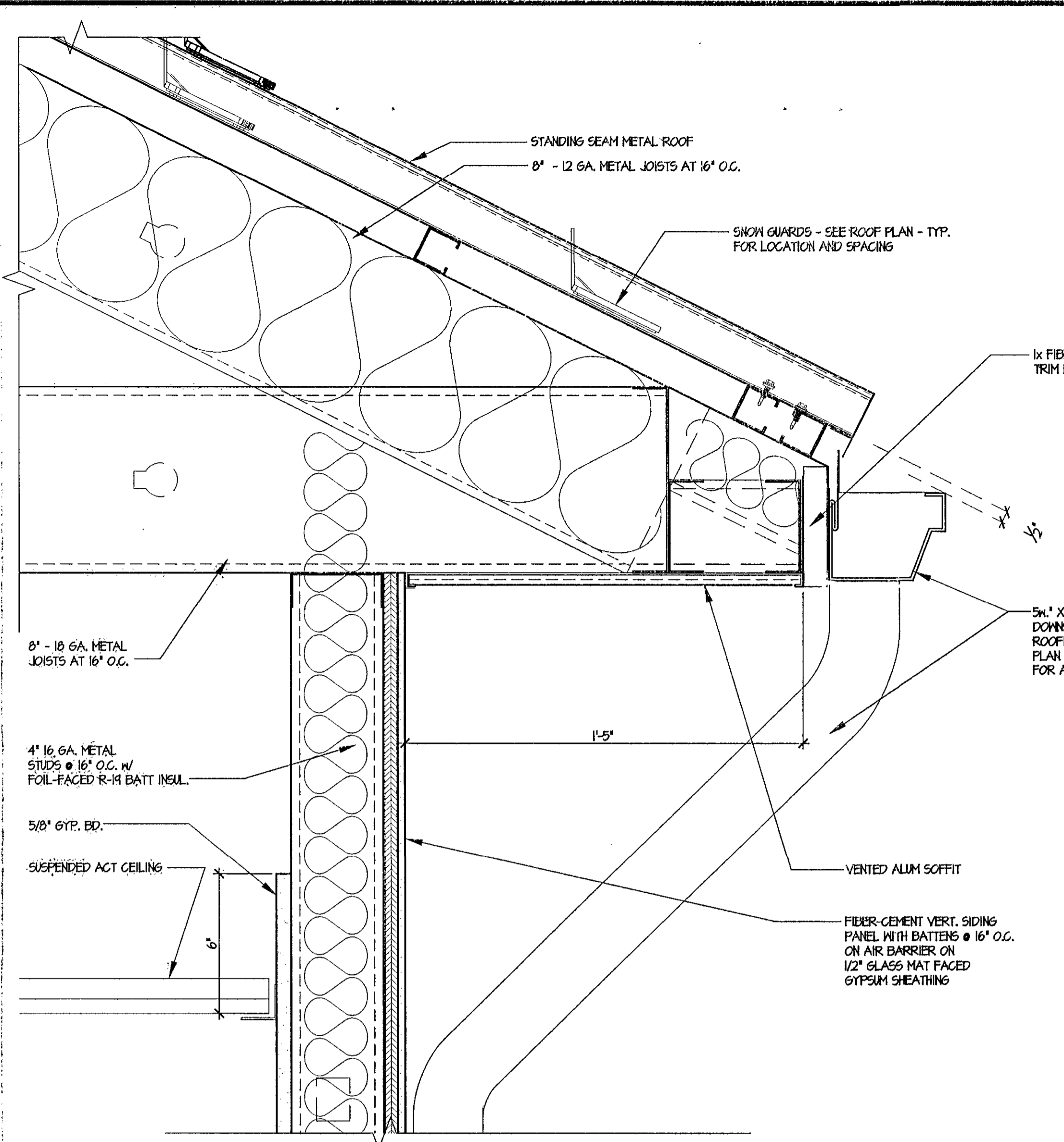
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CHK:	APPENDUM # 2	3/1/08
DATE: 1/14/08	BY No.	REVISION
		DATE

FINISH SCHEDULE/DETAILS
MEADOWBROOK SPORTS CENTER
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

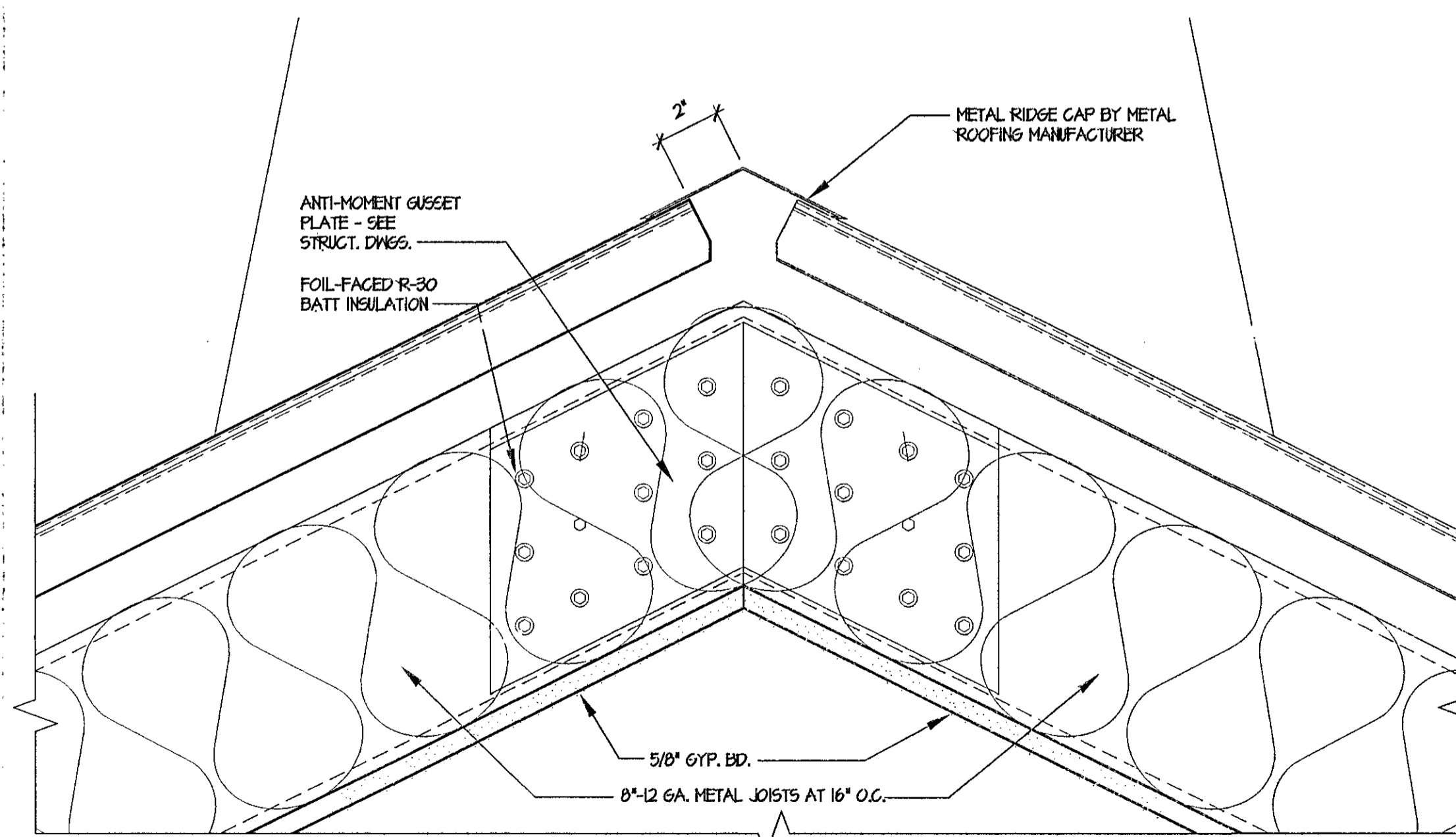
GVA
 George Veach Associates, Inc.
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 Email gvaa@earthlink.net

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 Wash. Telephone 301.621.4013
 Bofa. Telephone 410.992.9970
 Fax 410.992.0827
 E-mail columbio@columbiaengineering.com

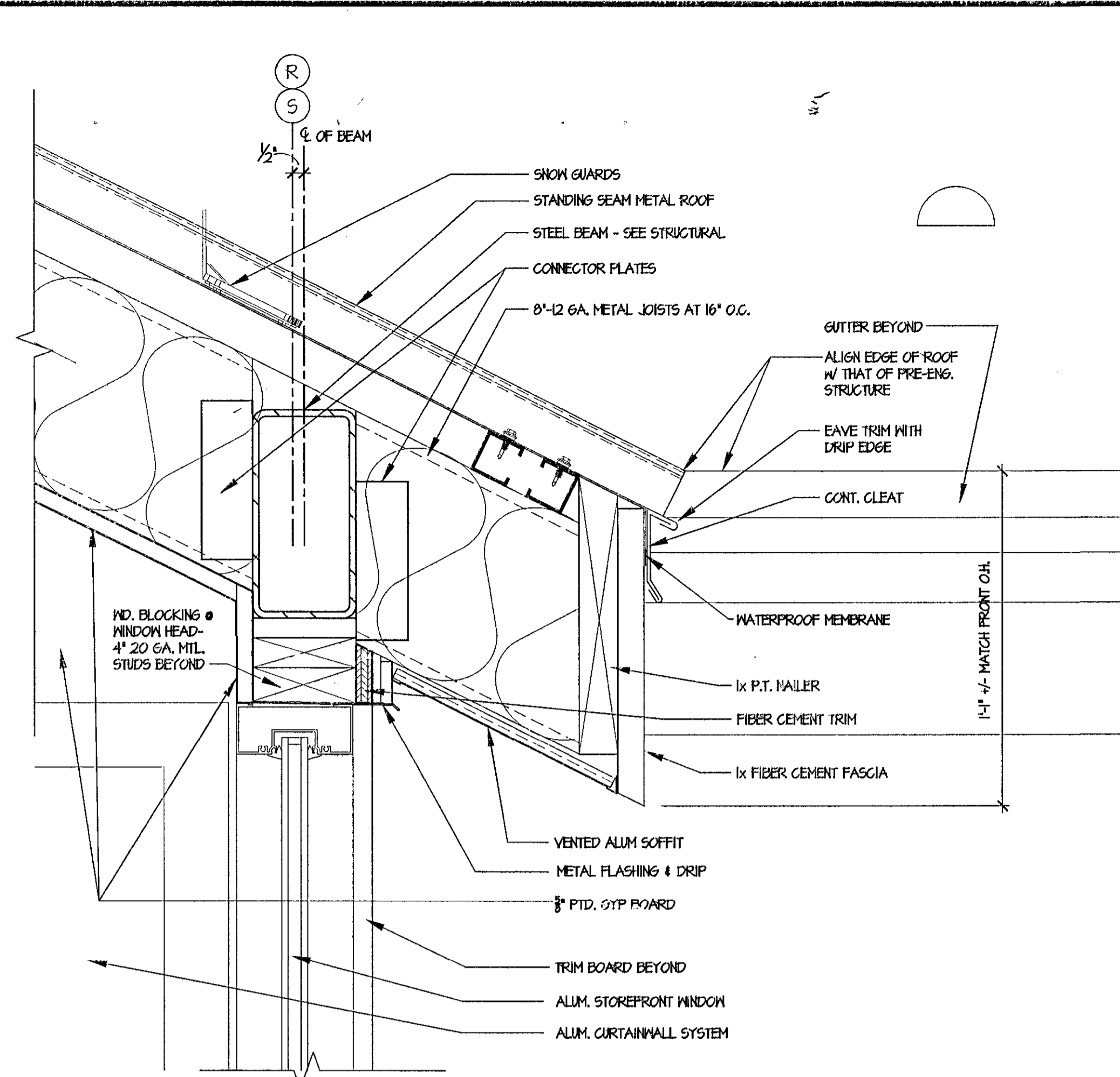
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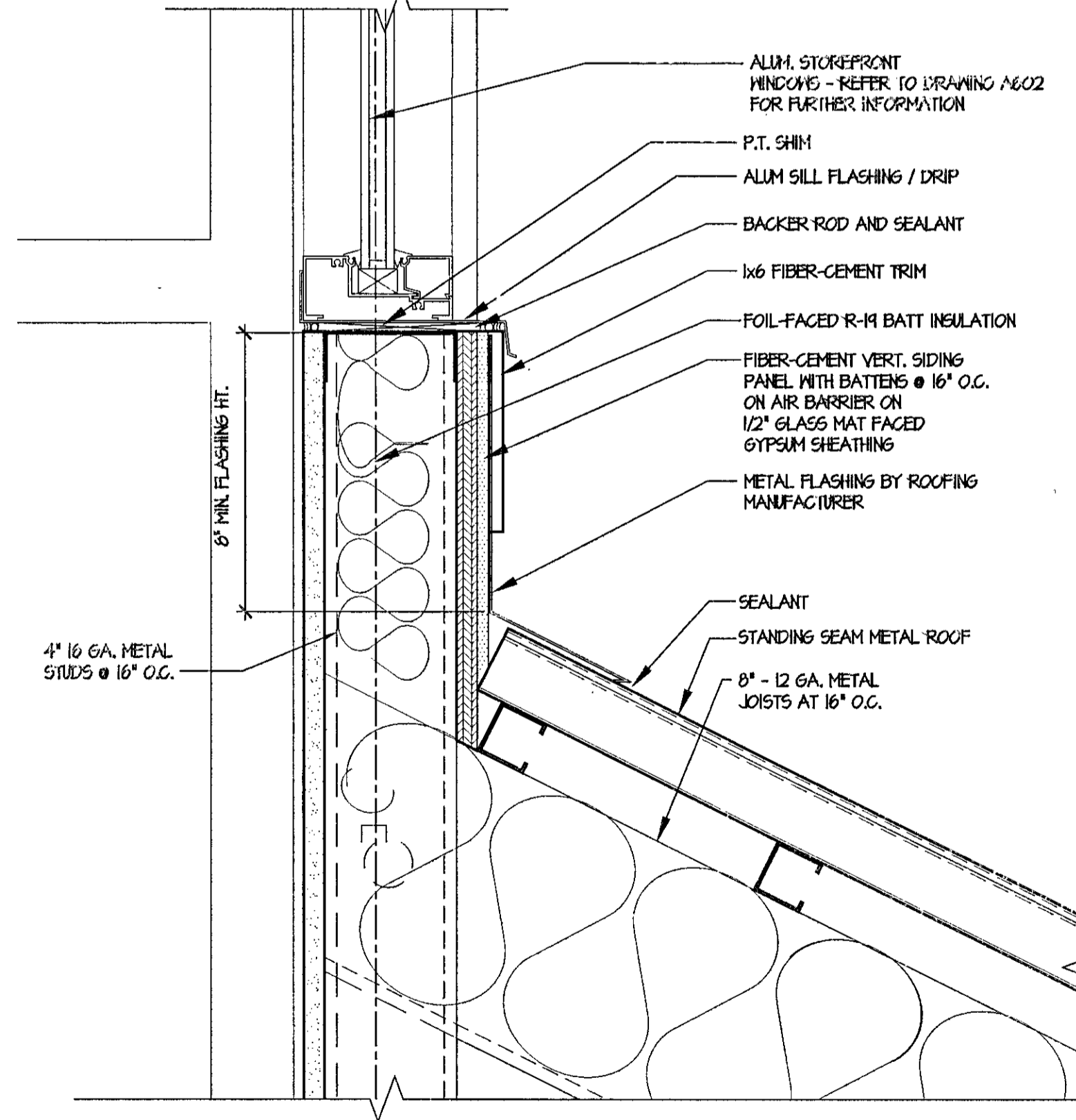
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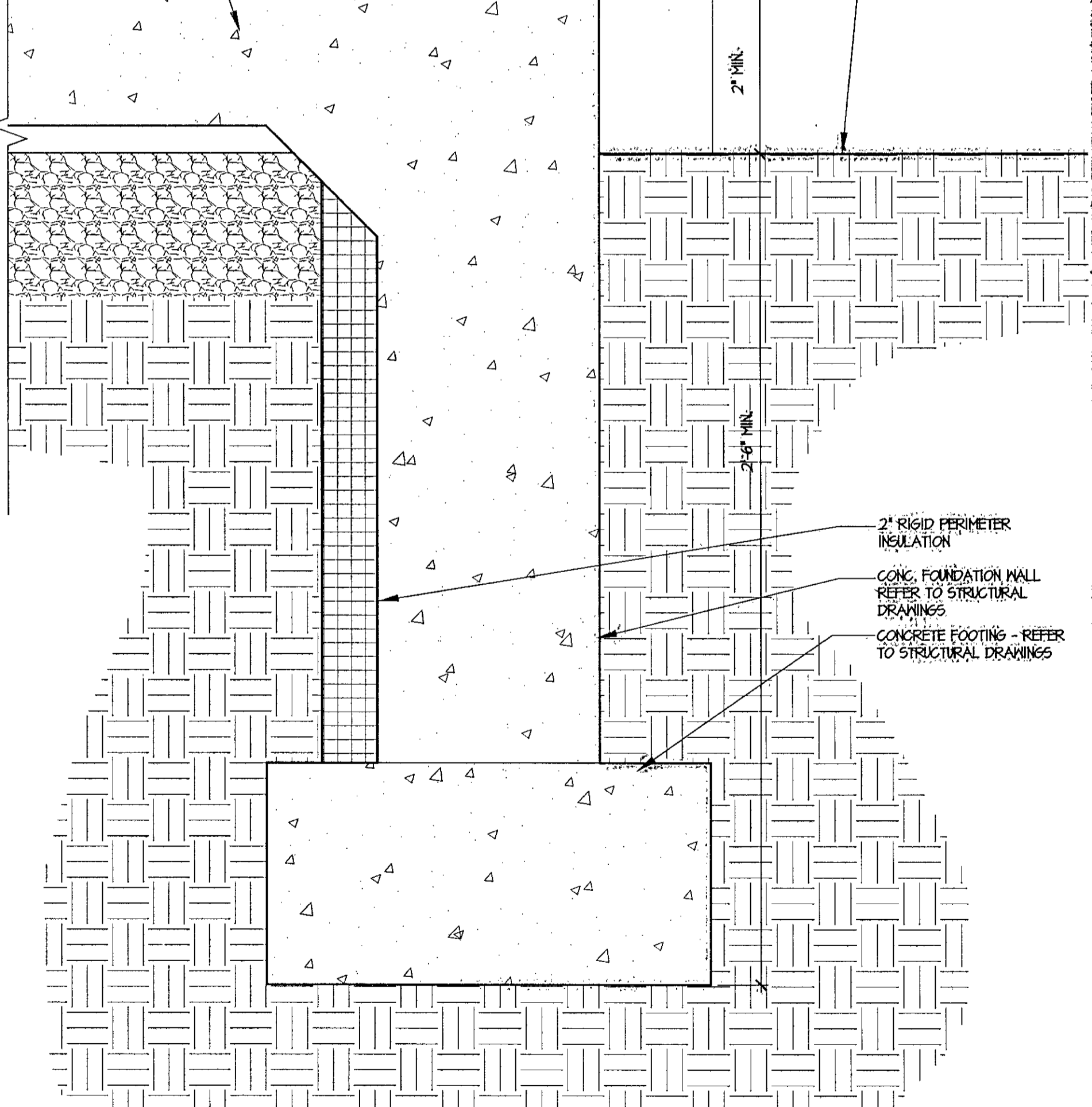
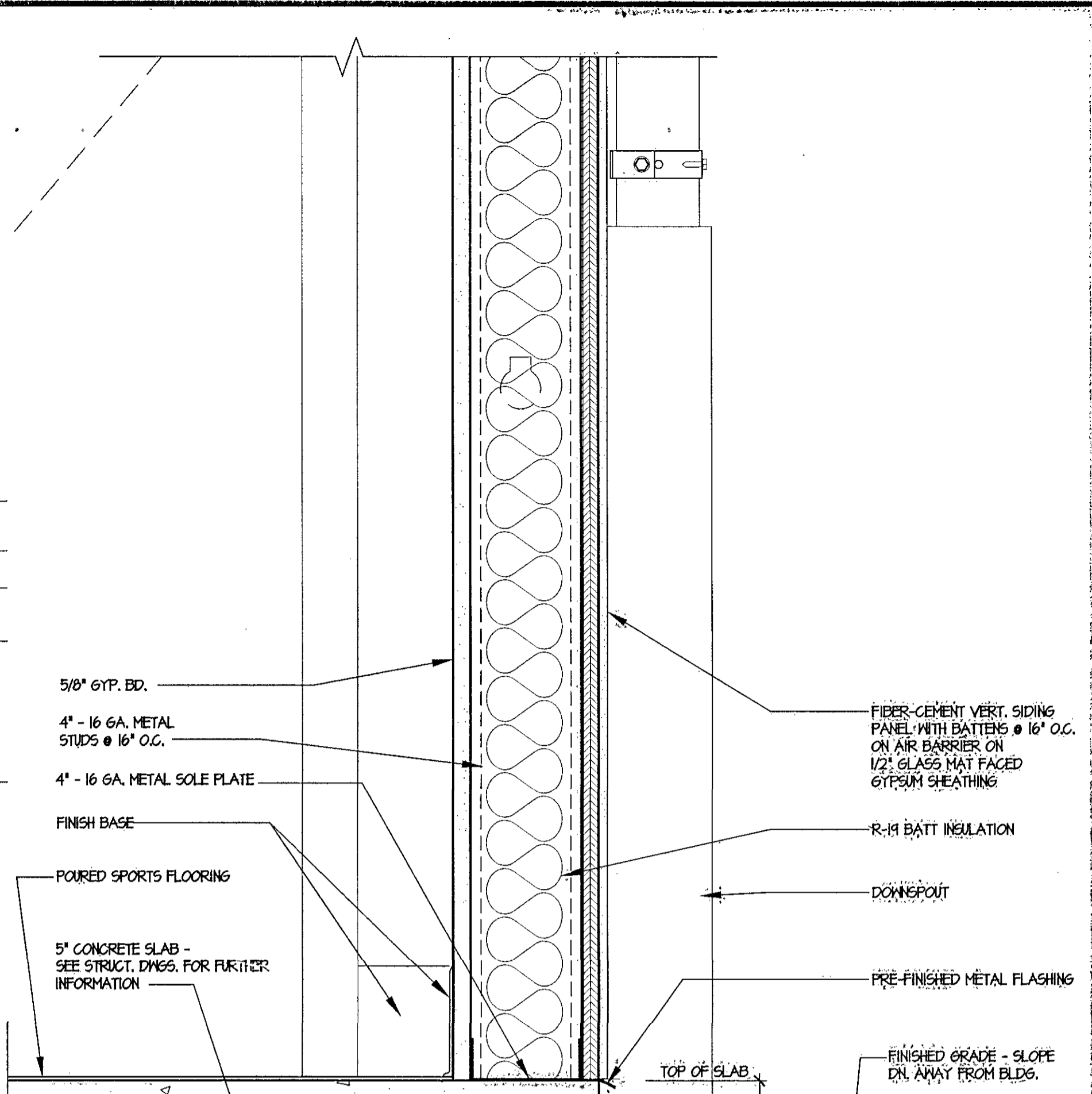
2 VESTIBULE RIDGE DETAIL
3\"/>



3 EAVE DETAIL
3\"/>

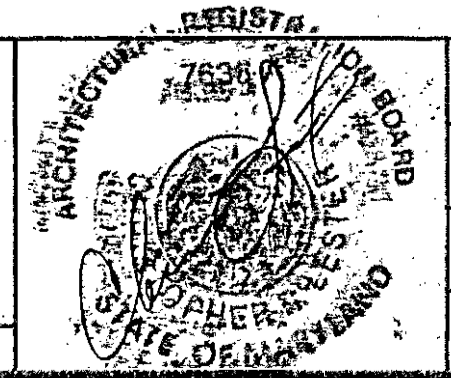


4 SECTION DETAIL
3\"/>



5 FOUNDATION DETAIL
3\"/>

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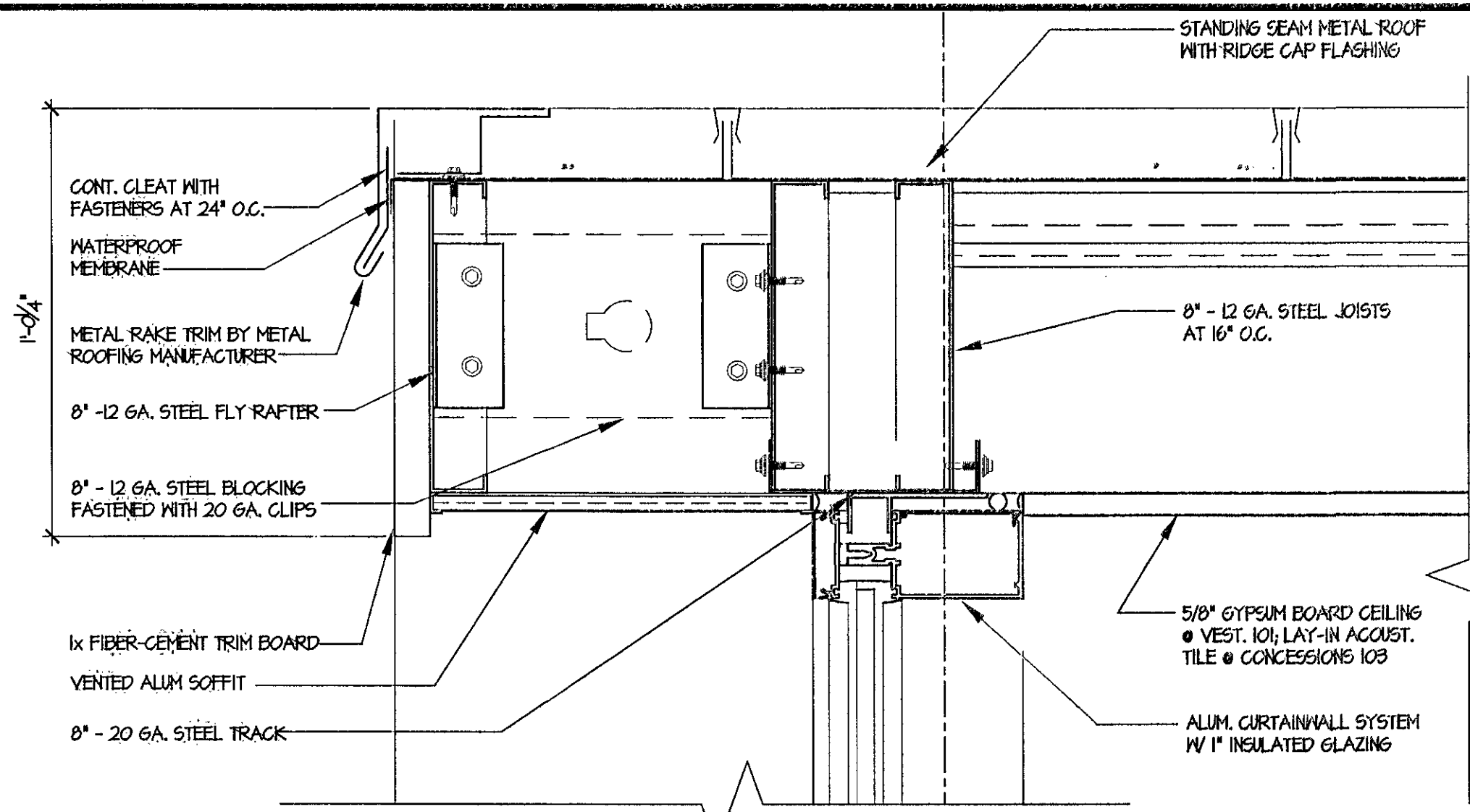
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WALL SECTIONS
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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Email: gva@geovarchitects.com

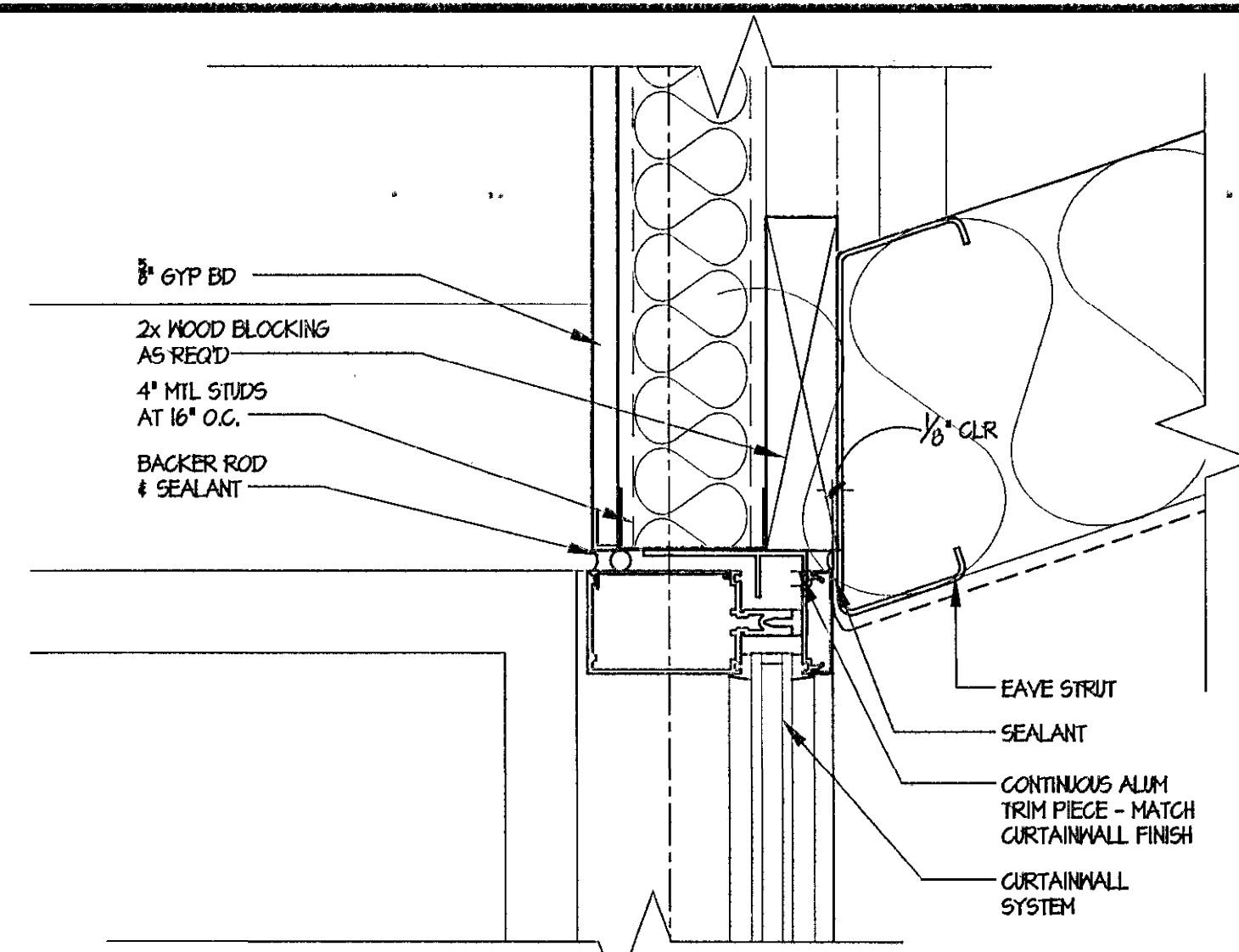
COLUMBIA ENGINEERING INC.
Columbia Engineering Inc.
Structural Engineers
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Boltz Telephone 410.992.9970
Fax 410.992.0627
E-mail columbio@columbioengineering.com

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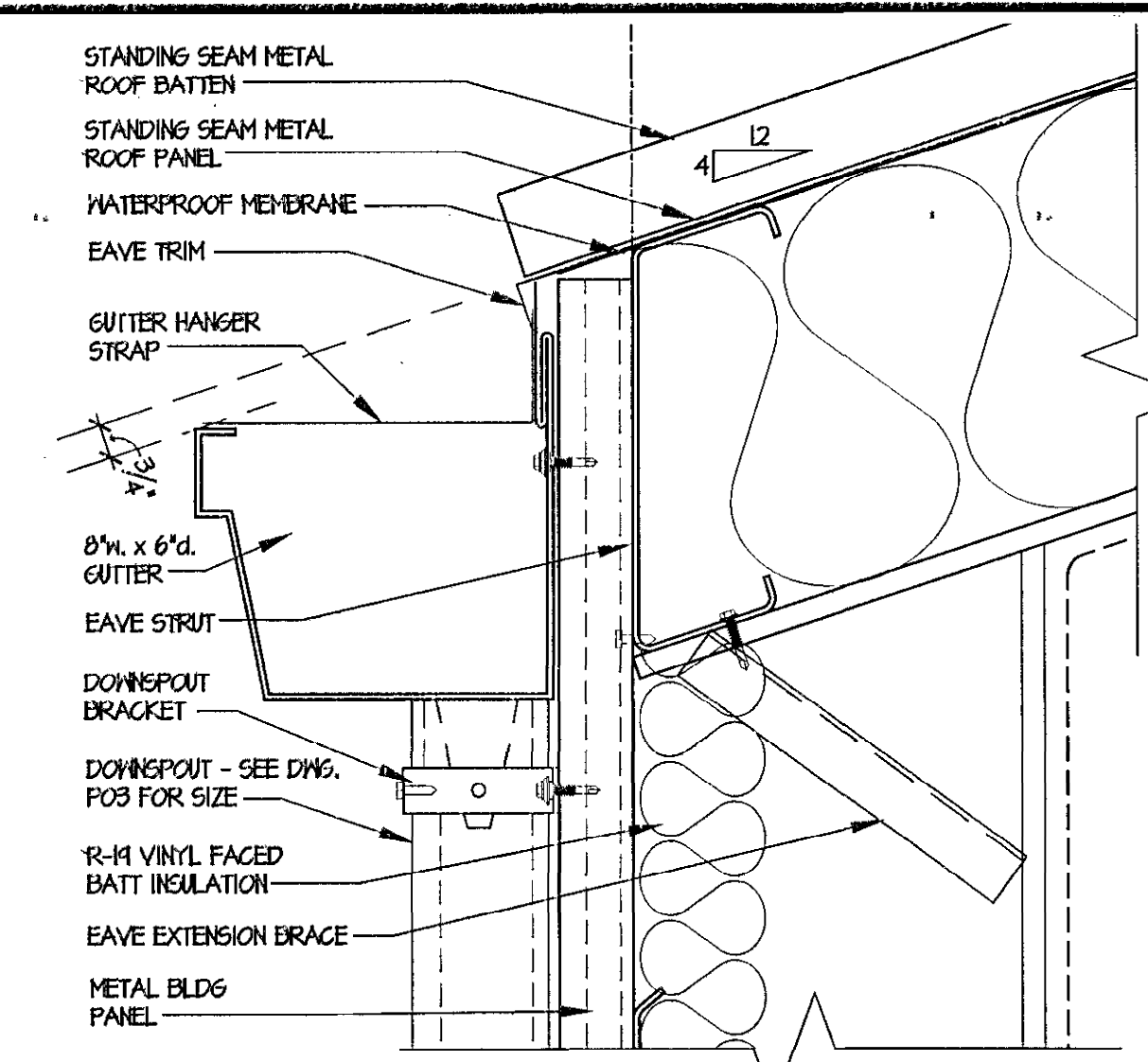
1 EAVE DETAIL

8" = 1'-0"



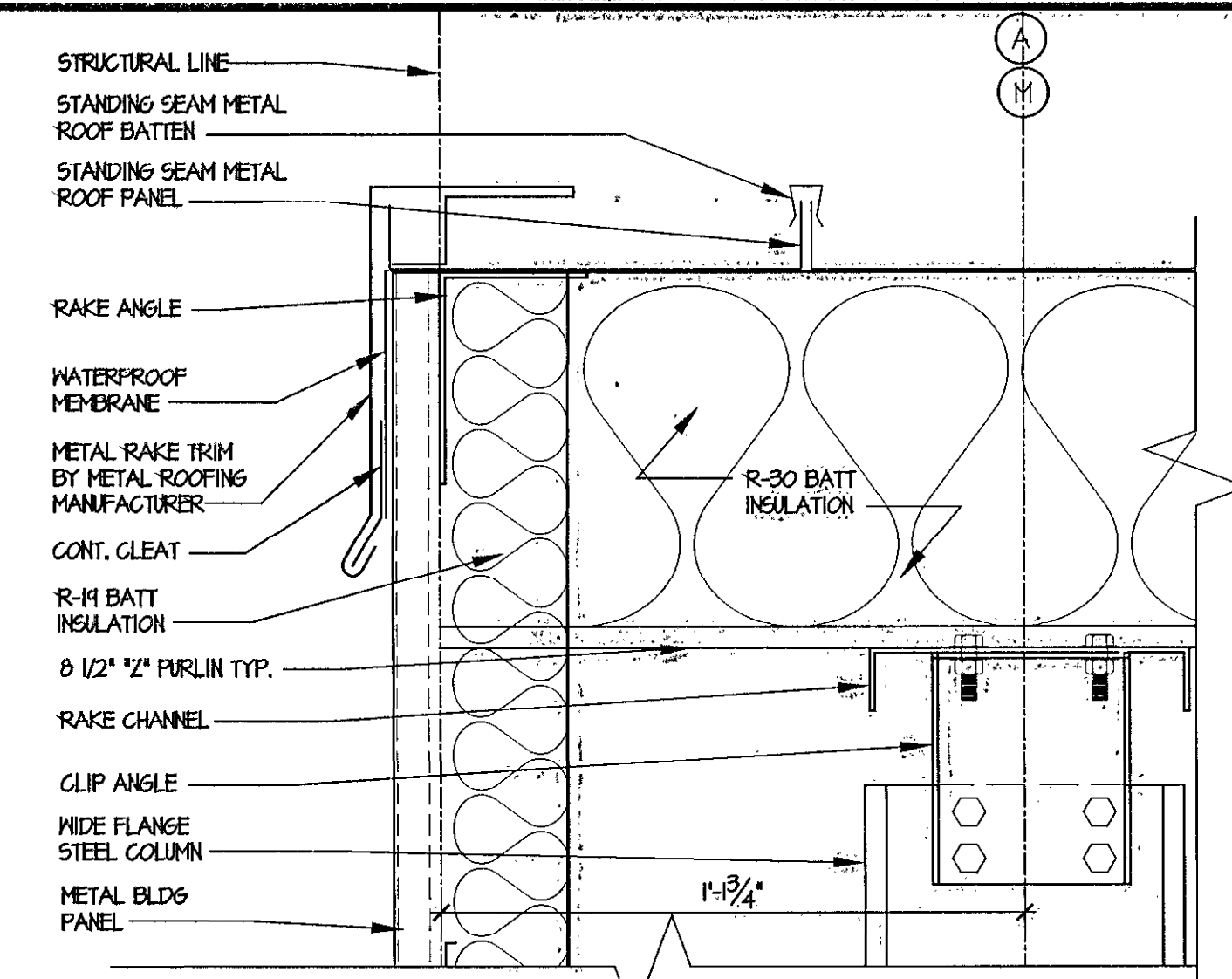
2 DETAIL

8" = 1'-0"



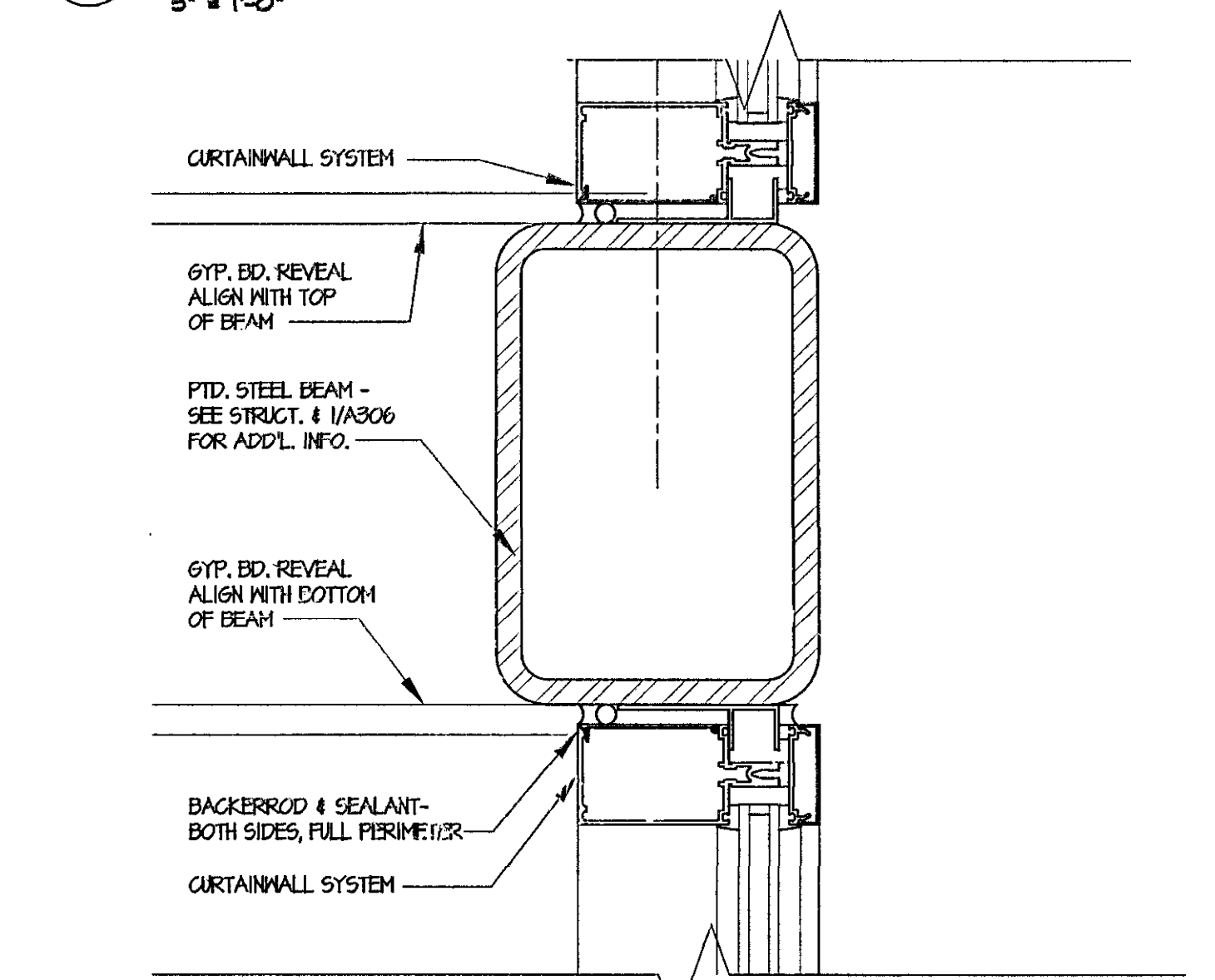
3 DOWNSPOUT DETAIL

8" = 1'-0"



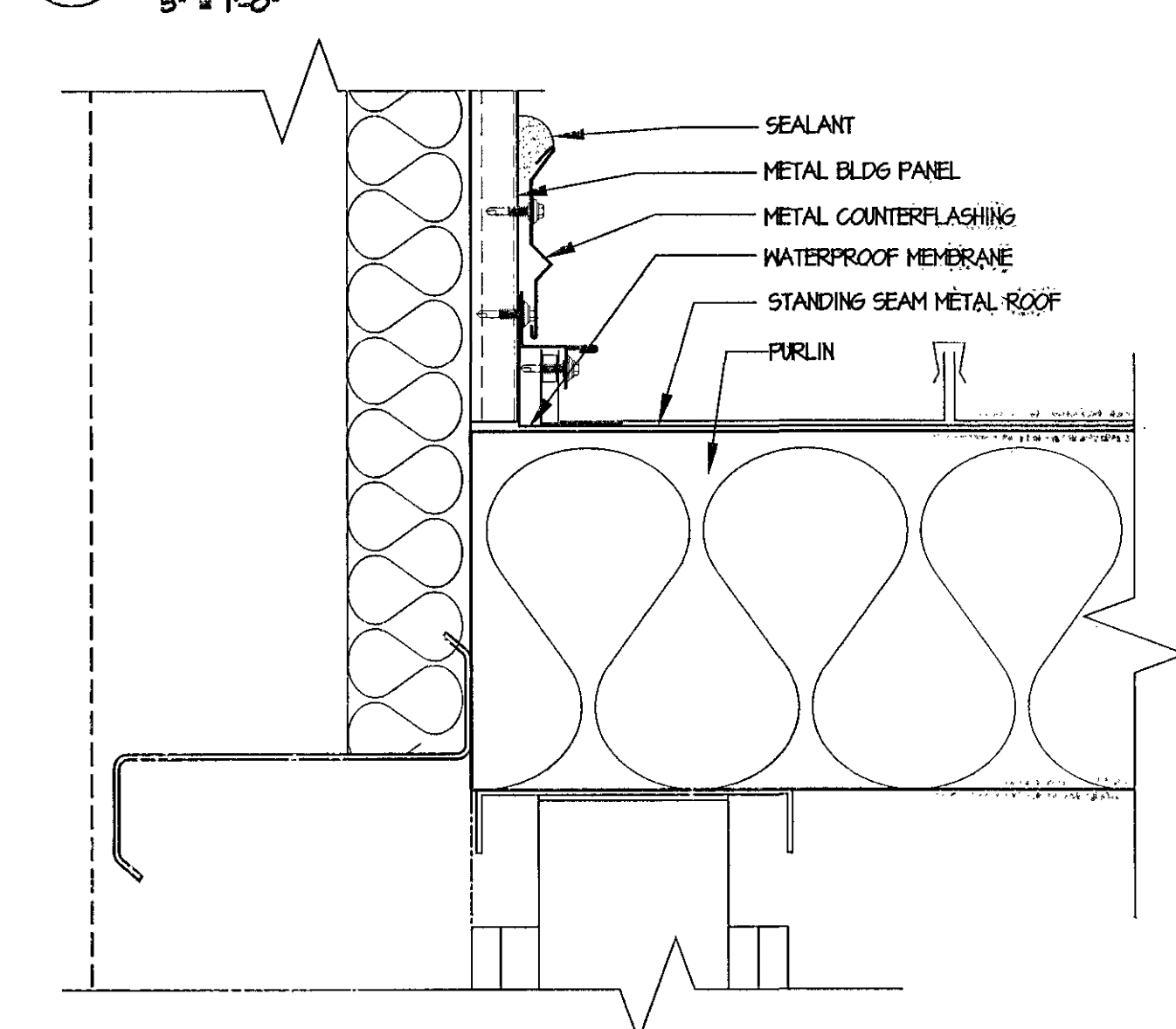
4 DETAIL

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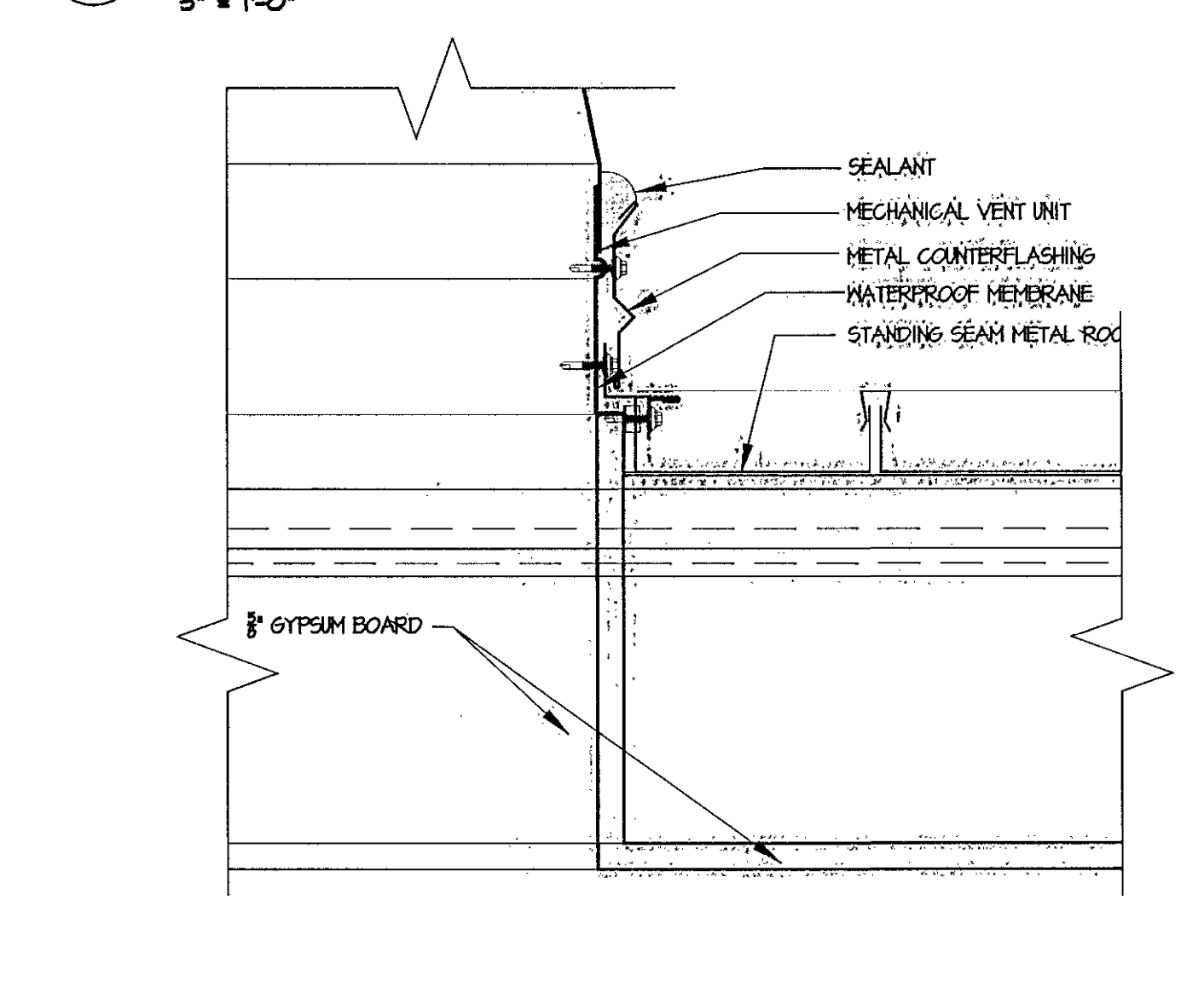
5 SILL / HEAD DETAIL

8" = 1'-0"



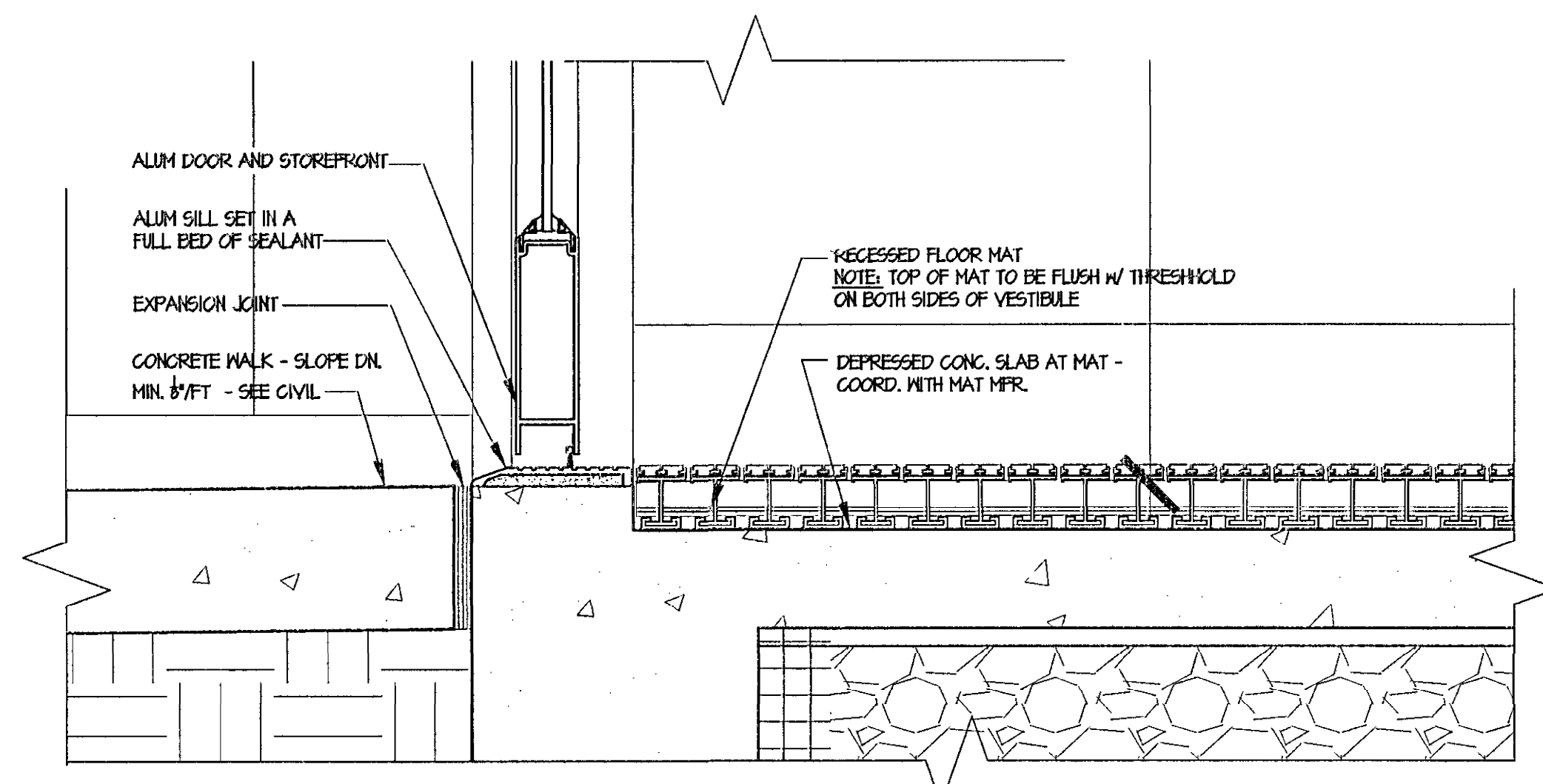
6 ROOF FLASHING DETAIL

8" = 1'-0"



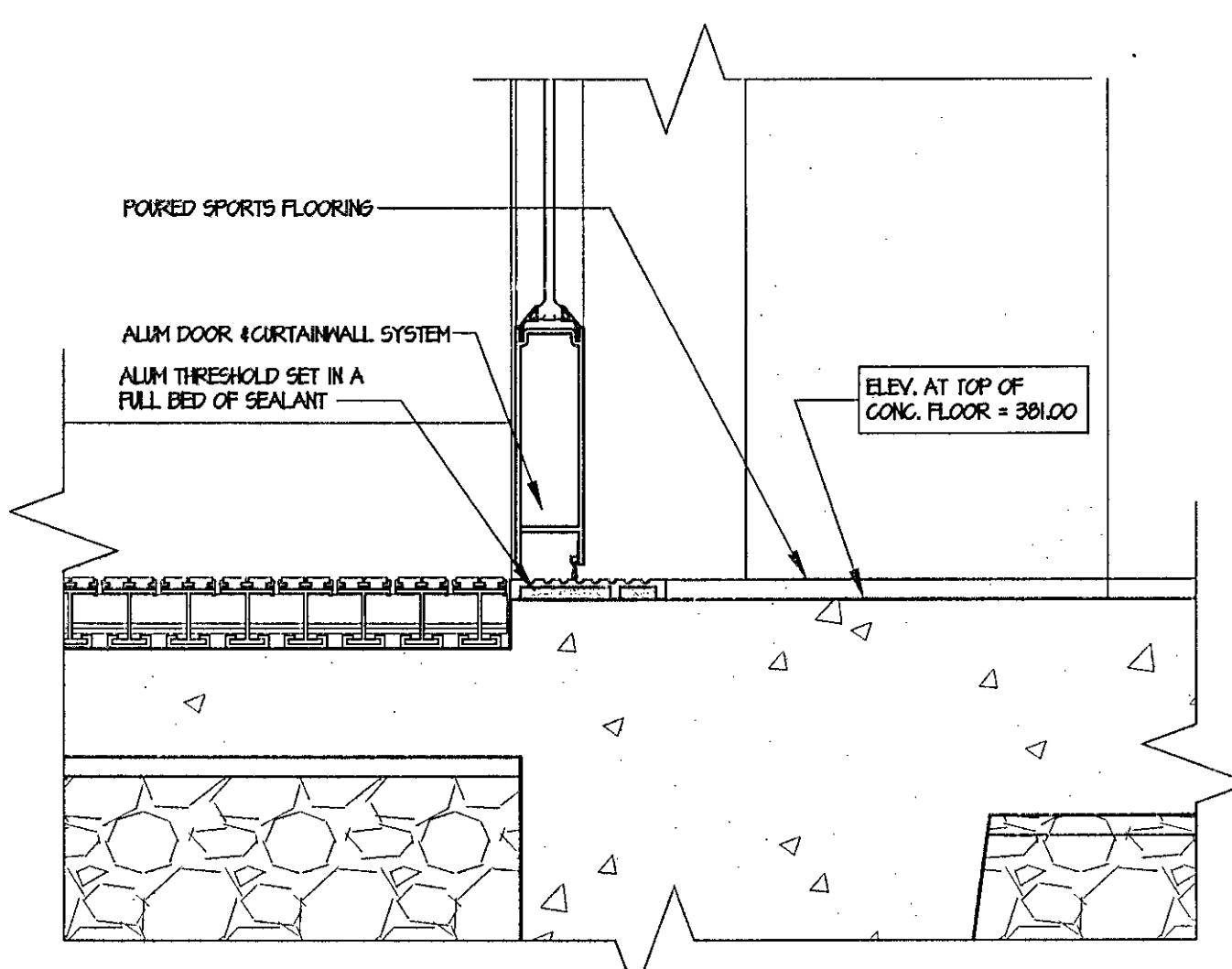
7 ROOF FLASHING DETAIL

8" = 1'-0"



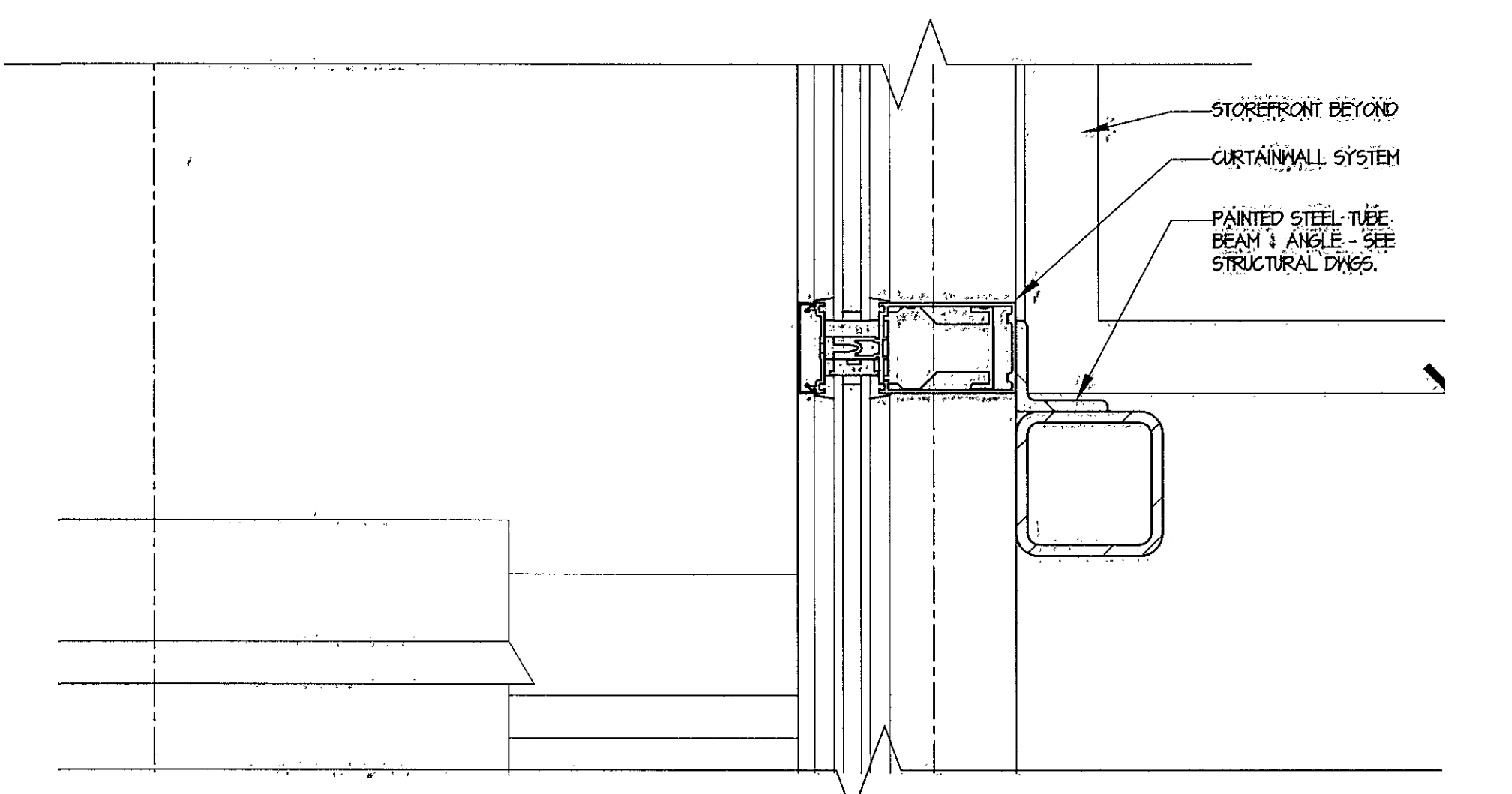
8 SILL DETAIL

8" = 1'-0"



9 SILL DETAIL

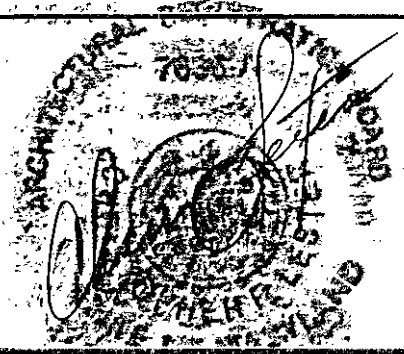
8" = 1'-0"



10 SILL / HEAD DETAIL

8" = 1'-0"

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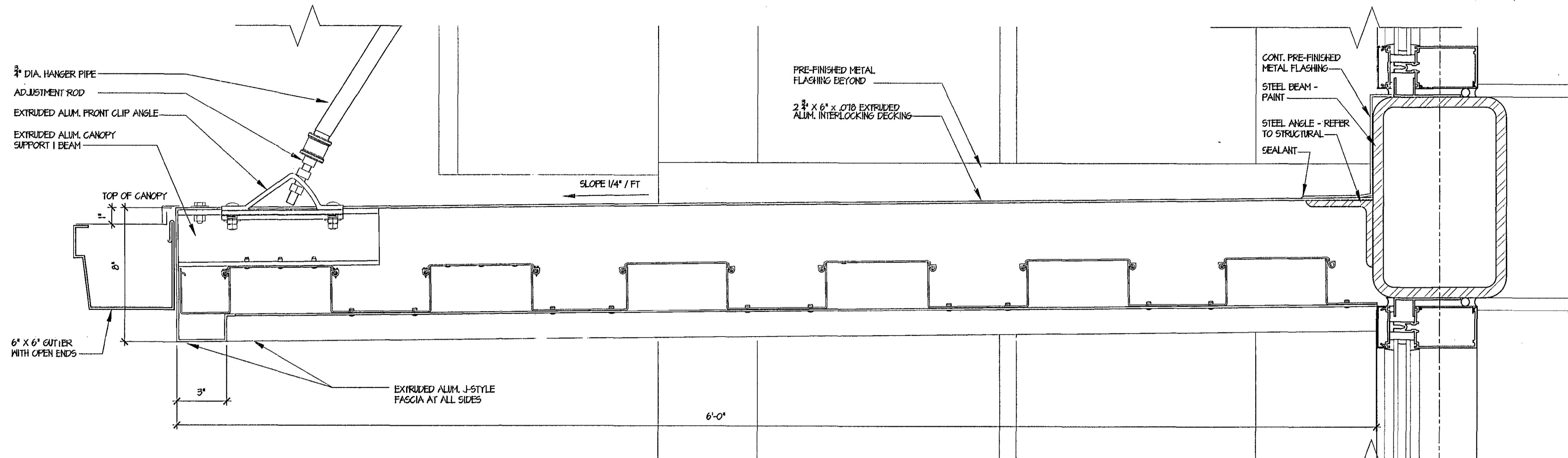
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SECTION DETAILS
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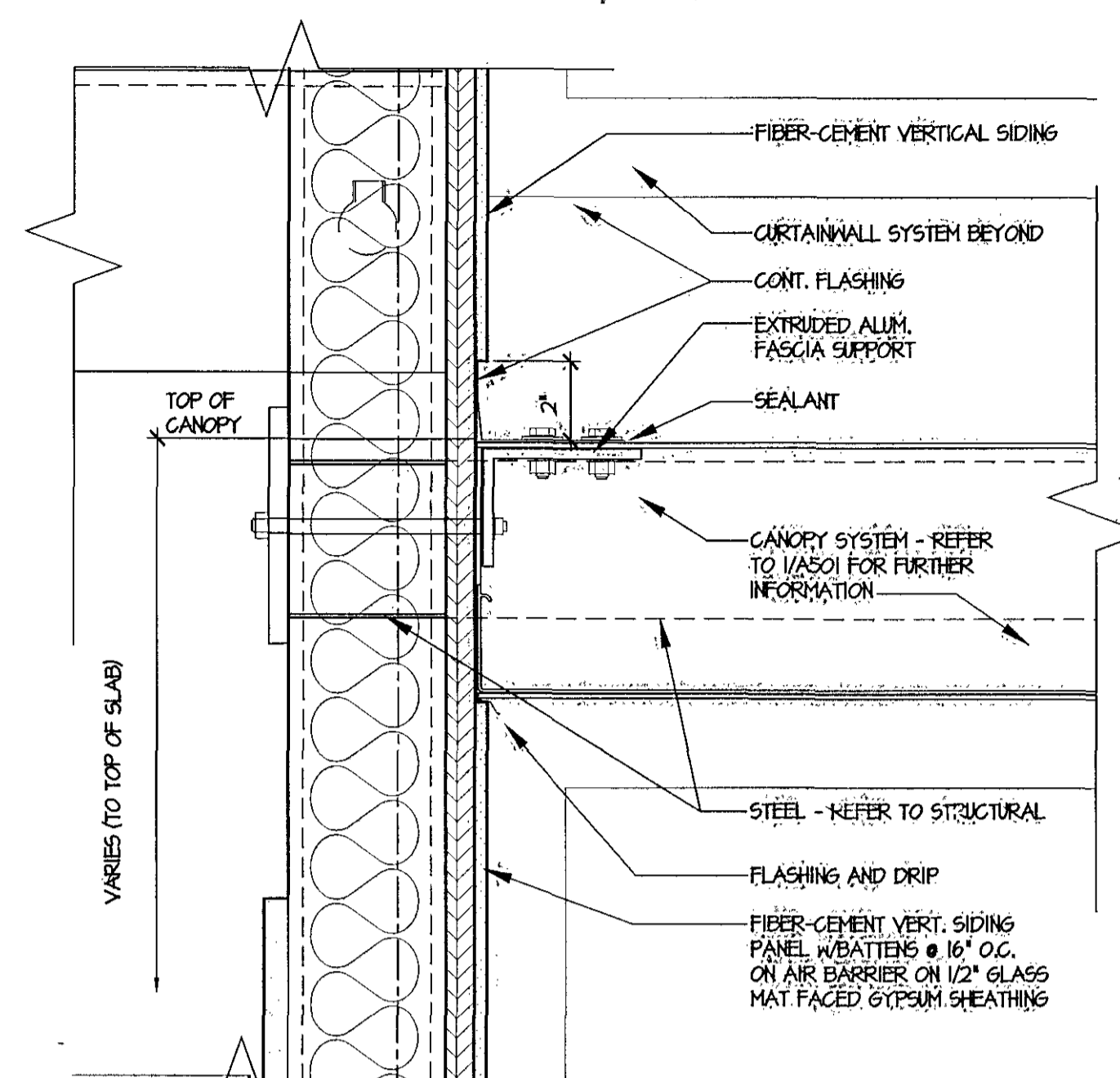
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SCALE AS SHOWN
SHEET **A 502**



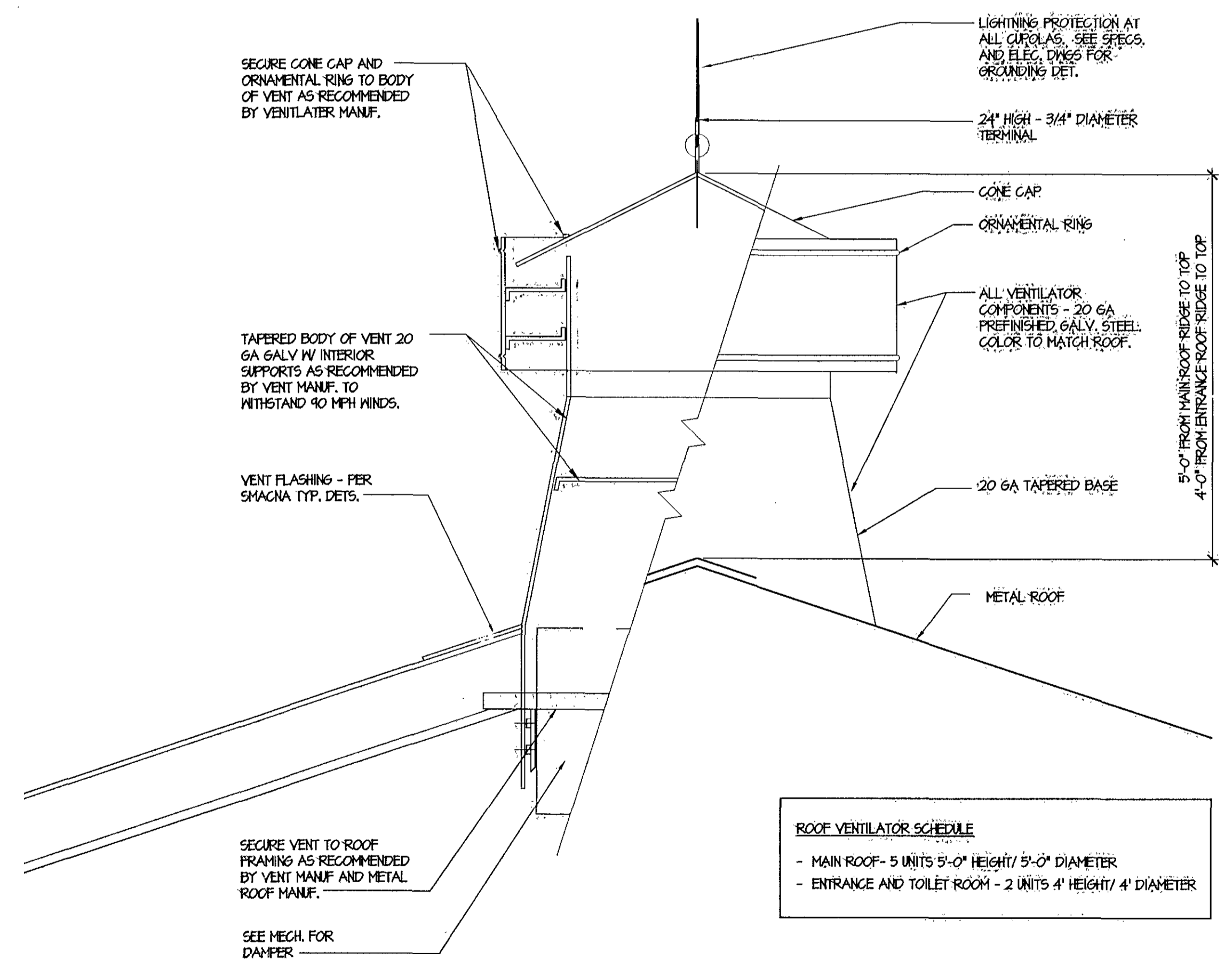
1 CANOPY DETAIL

AS03 3" = 1'-0"



2 CANOPY DETAIL

AS03 3" = 1'-0"



ROOF VENTILATOR SCHEDULE

- MAIN ROOF - 5 UNITS 5'-0" HEIGHT/ 5'-0" DIAMETER
- ENTRANCE AND TOILET ROOM - 2 UNITS 4' HEIGHT/ 4' DIAMETER

3 SECTION/ ELEVATION OF ROOF VENTILATOR

AS03 NTS

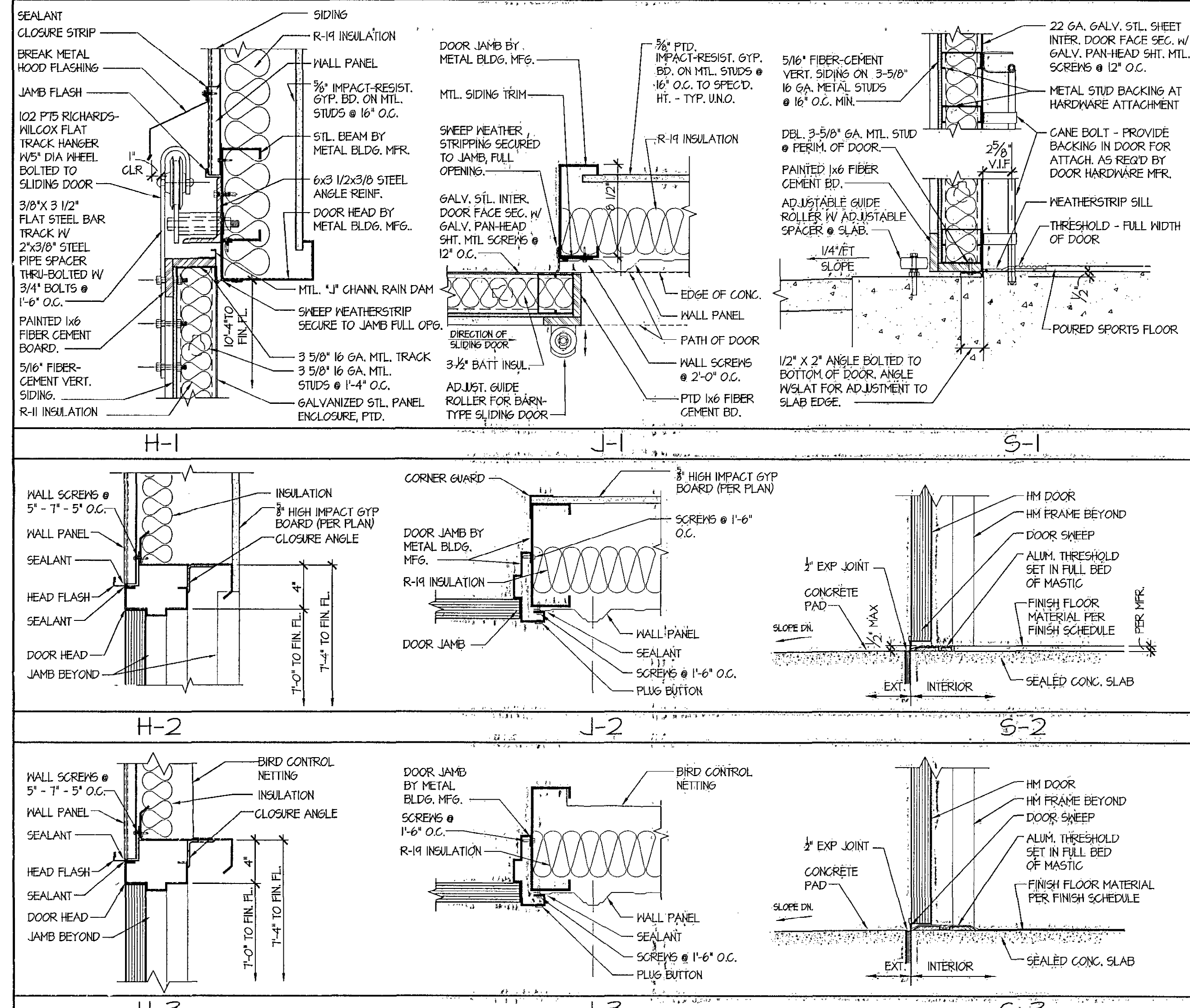
<p>ENGINEERING & ENVIRONMENTAL SCIENCES LAND PLANNING & SURVEYING & CONSTRUCTION SERVICES 20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 287-8821 Fax (410) 287-9932</p>		DES:	100% SUBMITTAL	01/17/08	<p>SECTION DETAILS</p> <p>MEADOWBROOK SPORTS CENTER</p> <p>HOWARD COUNTY DEPT. OF RECREATION AND PARKS</p>	<p>George Vaughn Associates, Inc. Architecture • Interior Design 5501 Twin Knolls Rd., Suite 108 Columbia, Maryland 21048 Tel: (410) 992-1000 Fax: (410) 992-2779 Email: gva@georgevaughn.com</p>	<p>Columbia Engineering Inc. Structural Engineers 6470-A Dobbins Road Columbia, Maryland 21045 North Telephone 301.621.4015 Bolt Telephone 410.992.9970 Fax 410.992.0627 E-mail: columbio@columbiaengineering.com</p>	SCALE
		DRN:	100% SUBMITTAL - After Owner Review Comments	11/20/08				AS SHOWN
		CHK:	100% SUBMITTAL - BID SET	05/30/07				SHEET
			FINAL BID SET	01/14/08				A
DATE: 1/14/08	BY No.	REVISION	DATE	TITLE			503	

DOOR AND WINDOW SCHEDULE

OPENING NUMBER	DOOR										FRAME										REMARKS		
	WIDTH	HEIGHT	DOOR THICKNESS	DOOR ELEVATION	DOOR MATERIAL	UNDERCUT (in. inches)	LOWER TYPE	LOWER SIZE W x H (in. inches)	GLASS TYPE	GLASS SIZE	FRAME THROAT (in. inches)	FRAME ELEVATION	FRAME MATERIAL	TRANSOM and/or SIDE LITE TYPE	TRANSOM and/or SIDE LITE SIZE W x H x T (in. inches)	HEAD DETAILS	JAMB DETAILS	SILL/THRESHOLD DETAILS	U. L. LABEL	HARDWARE SET		KEY NUMBER	ROOM SIGNAGE REQ'D.
101A	(2) 3'-6"	7'-0"	1 3/4"	A	A/G	-	-	-	CTG	FULL	4 1/2"	ALUM	-	-	15/A502	5/A602	8/A502	-	A-1	-	-	-	SEE CW1 / A602 FOR DOOR FRAME CONFIG.; FIN. = CLEAR ANODIZED
101B	(2) 3'-6"	7'-0"	1 3/4"	A	A/G	-	-	-	CTG	FULL	4 1/2"	ALUM	-	-	15/A502	5/A602	8/A502	-	A-1	-	-	-	SEE CW1 / A602 FOR DOOR FRAME CONFIG.; FIN. = CLEAR ANODIZED
102A	(2) 3'-6"	7'-0"	1 3/4"	A	A/G	-	-	-	CTG	FULL	4 1/2"	ALUM	-	-	15/A502	4/A602	9/A502	-	A-2	-	-	-	SEE CW2 / A602 FOR DOOR FRAME CONFIG.; FIN. = CLEAR ANODIZED
102B	(2) 3'-6"	7'-0"	1 3/4"	A	A/G	-	-	-	CTG	FULL	4 1/2"	ALUM	-	-	15/A502	4/A602	9/A502	-	A-2	-	-	-	SEE CW2 / A602 FOR DOOR FRAME CONFIG.; FIN. = CLEAR ANODIZED
102C	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102D	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102E	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-2	J-2	S-2	-	2	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102F	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-2	J-2	S-2	-	2	-	-	-	USED
102G	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-2	J-2	S-2	-	2	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102H	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102I	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102J	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102K	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102L	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102M	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-3	J-3	S-2	-	2	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102N	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-3	J-3	S-2	-	2	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102O	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
102P	(2) 7'-0"	10'-6"	-	B	STL	-	-	-	-	0 1/2"	2 * STL	-	-	-	H-1	J-1	S-1	-	1	-	-	-	SEE H-1 AND J-1 THIS SHT. FOR DOOR FRAME AND DETS.
103	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	CTG	HALF	5	1 HM	-	-	H-4	J-4	S-4	-	3	-	-	-	YES
104	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	CTG	HALF	5	1 HM	-	-	H-4	J-4	S-4	-	4	-	-	-	YES
105A	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	CTG	HALF	5	2 HM	-	-	H-4	J-4	S-4	-	5	-	-	-	YES
105B	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	CTG	HALF	5	1 HM	-	-	H-2	J-2	S-3	-	6	-	-	-	YES
106	(2) 3'-0"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-5	J-5	S-2	-	7	-	-	-	YES
107	(2) 3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	8	-	-	-	YES
108	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	9	-	-	-	YES
109A	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-2	J-2	S-3	-	10	-	-	-	YES
109B	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	11	-	-	-	YES
110	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	11	-	-	-	YES
111	2'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	11	-	-	-	YES
112	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	8	-	-	-	YES
113A	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-5	J-5	S-2	-	9	-	-	-	YES
113B	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-2	J-2	S-3	-	10	-	-	-	YES
114	(2) 3'-6"	7'-0"	1 3/4"	C	HM	-	-	-	-	5"	2 HM	-	-	-	H-4	J-4	S-2	-	12	-	-	-	YES
115	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-4	J-4	S-3	-	13	-	-	-	YES
117	3'-0"	7'-0"	1 3/4"	D	HM	-	-	-	-	5"	1 HM	-	-	-	H-3	J-3	S-3	-	15	-	-	-	YES
W1	3'-0"	4'-0"	-	-	-	-	-	-	CTG	5	W1	ALUM	-	-	H-6/H-7	J-6/J-7	S-6/S-7	-	-	-	-	-	REFER TO DRAWING A602 FOR ADDL. WINDOW INFO. + DETS.
W2	3'-0"	4'-0"	-	-	-	-	-	-	CTG	5	W2	HM	-	-	H-8	J-8	S-8	-	-	-	-	-	REFER TO DRAWING A602 FOR ADDL. WINDOW INFO. + DETS.
W3	6'-0"	4'-0"	-	-	-	-	-	-	CTG	5	W3	HM	-	-	H-8 SIM.	J-8 SIM.	S-8 SIM.	-	-	-	-	-	REFER TO DRAWING A602 FOR ADDL. WINDOW INFO. + DETS.

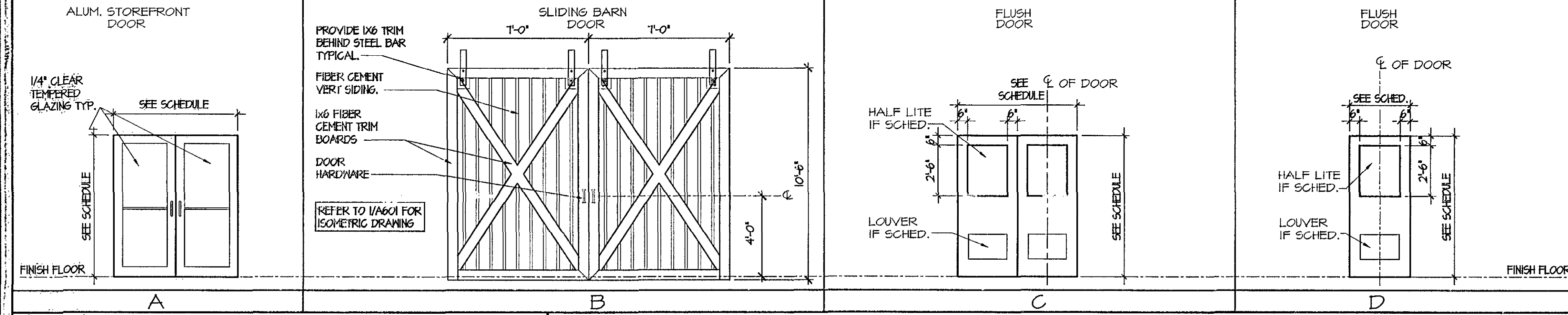
HEAD, JAMB AND SILL DETAILS

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



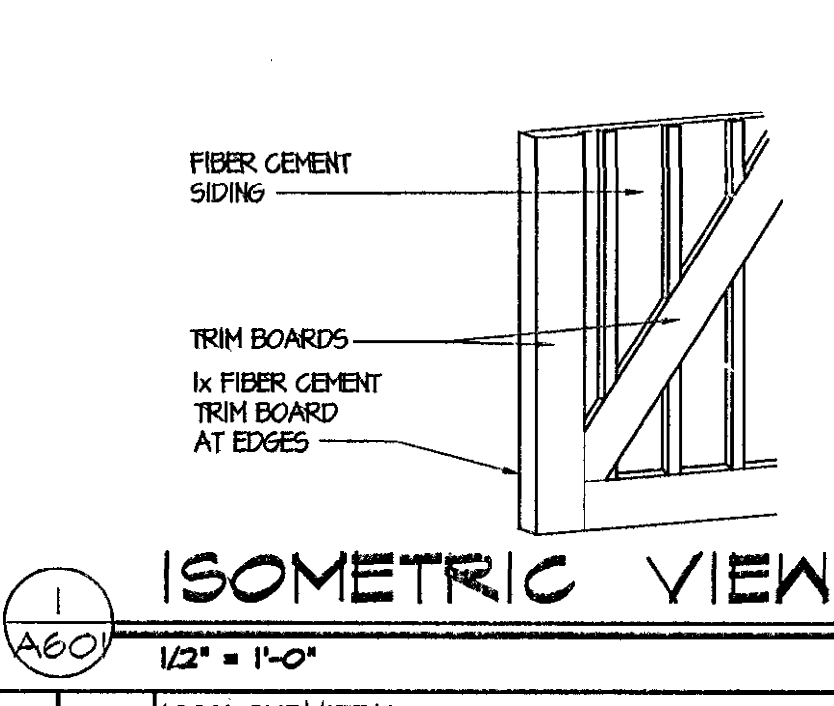
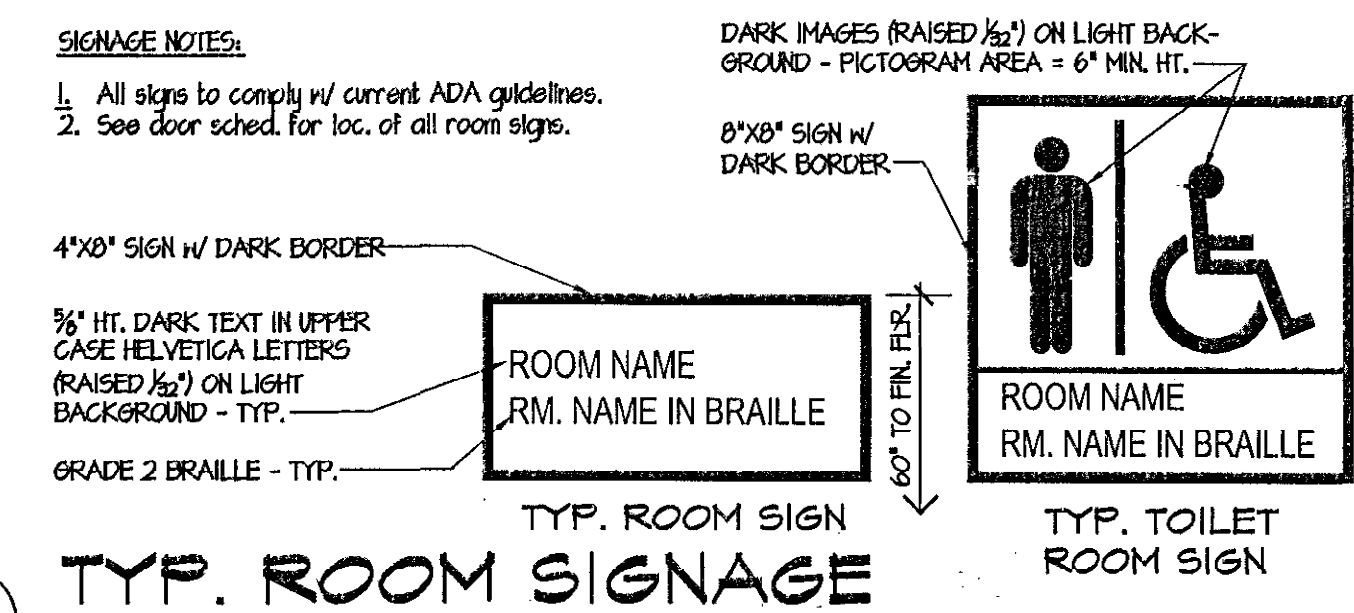
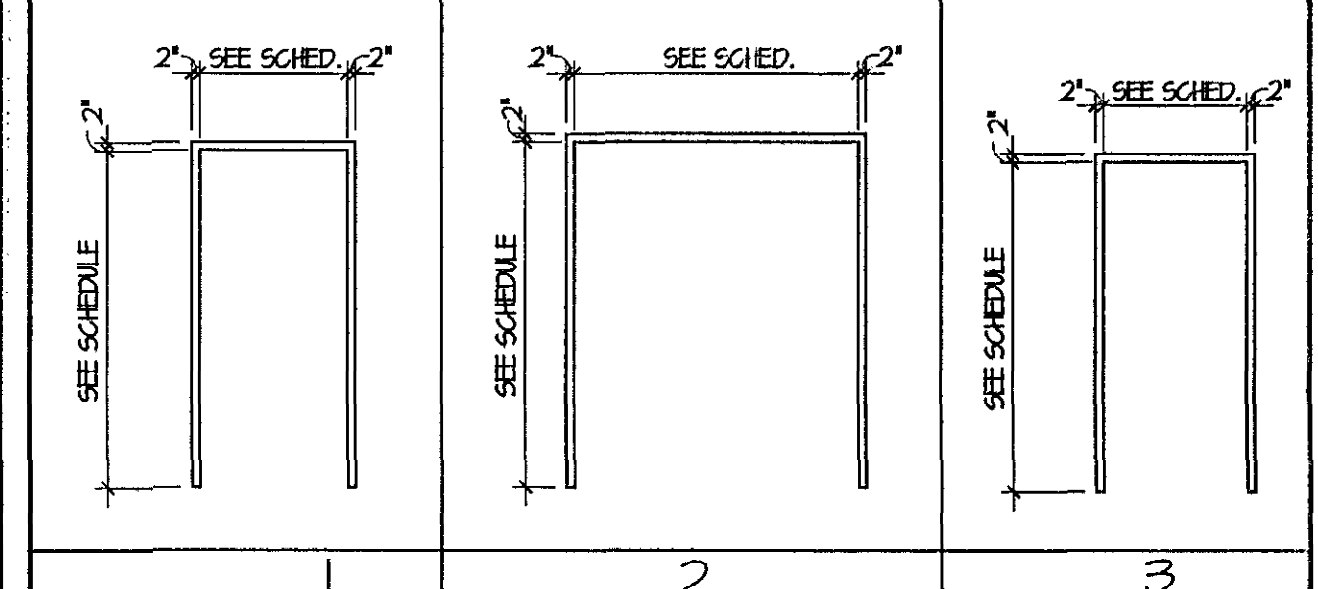
DOOR ELEVATIONS

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



FRAME ELEVATIONS

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



DOOR NOTES:
 1. VERIFY DIMENSIONS IN FIELD.
 2. FLOOR FIN. MATERIAL THICKNESSES VARY. VERIFY DIMENSIONS OF DOORS AND FRAMES MEET CLEARANCE REQUIREMENTS OF DOORS AND FULL COVERAGE OF DOOR FRAMES AT ALL JAMB LOCATIONS AT FLOOR.

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 ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY

DES: [] 100% SUBMITTAL 01/17/06
 DRN: [] 100% SUBMITTAL - After Owner Review Comments 11/20/06
 CHK: [] 100% SUBMITTAL - BID SET 05/30/07
 [] FINAL BID SET 01/14/08

DATE	BY	No.	REVISION	DATE	TITLE
01/14/08					DOOR SCHEDULE/DETAILS

MEADOWBROOK SPORTS CENTER
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

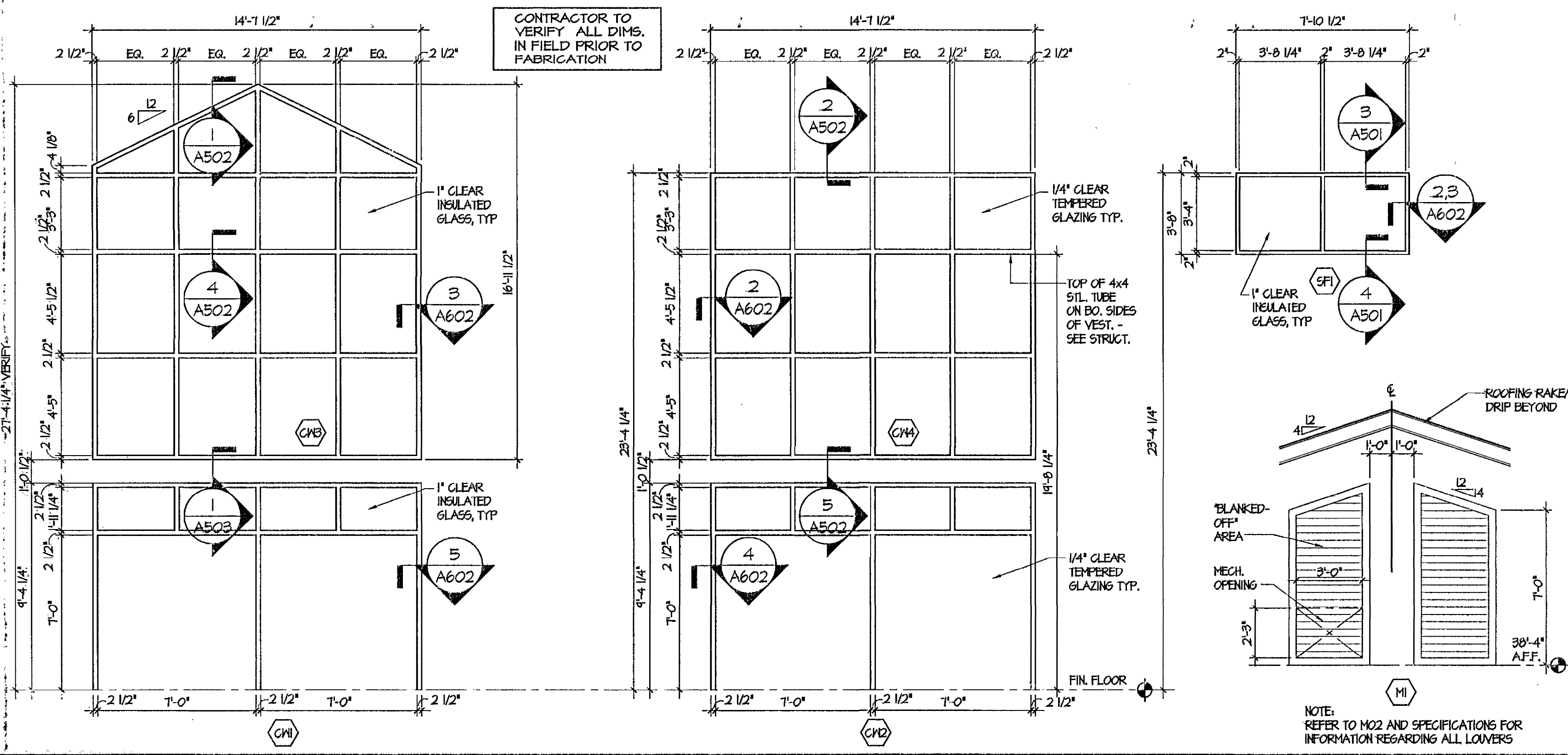
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SCALE AS SHOWN
 SHEET
60

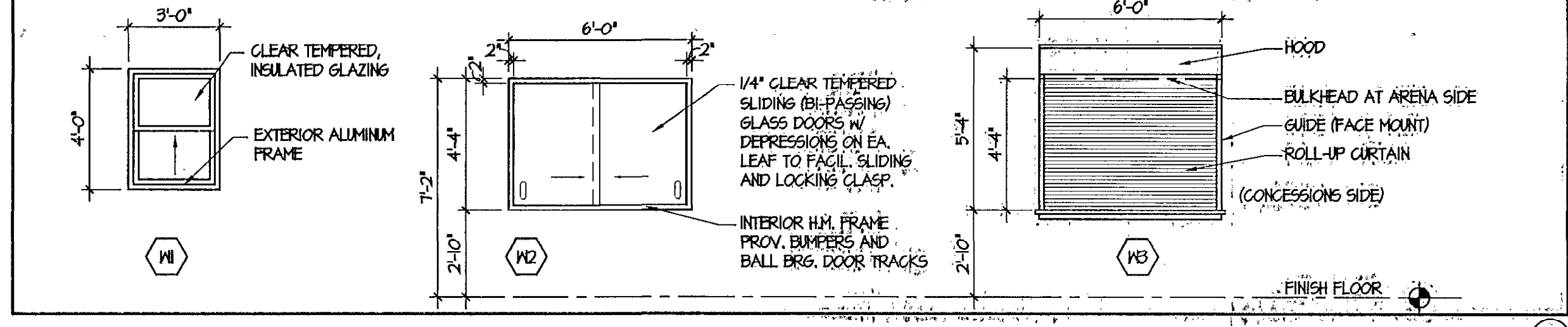
ALUMINUM STOREFRONT, CURTAINWALL AND MECHANICAL LOUVER ELEVATIONS

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



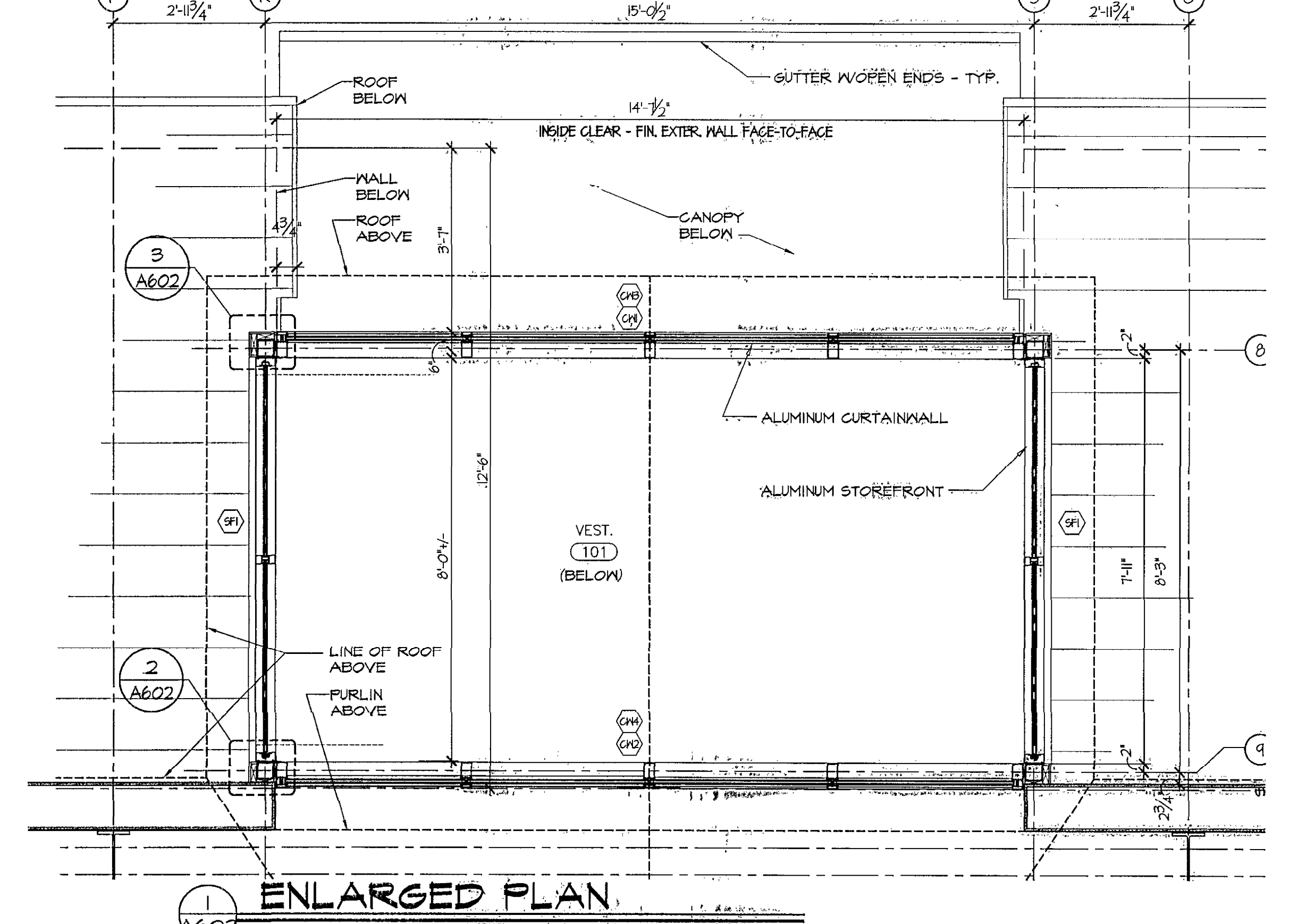
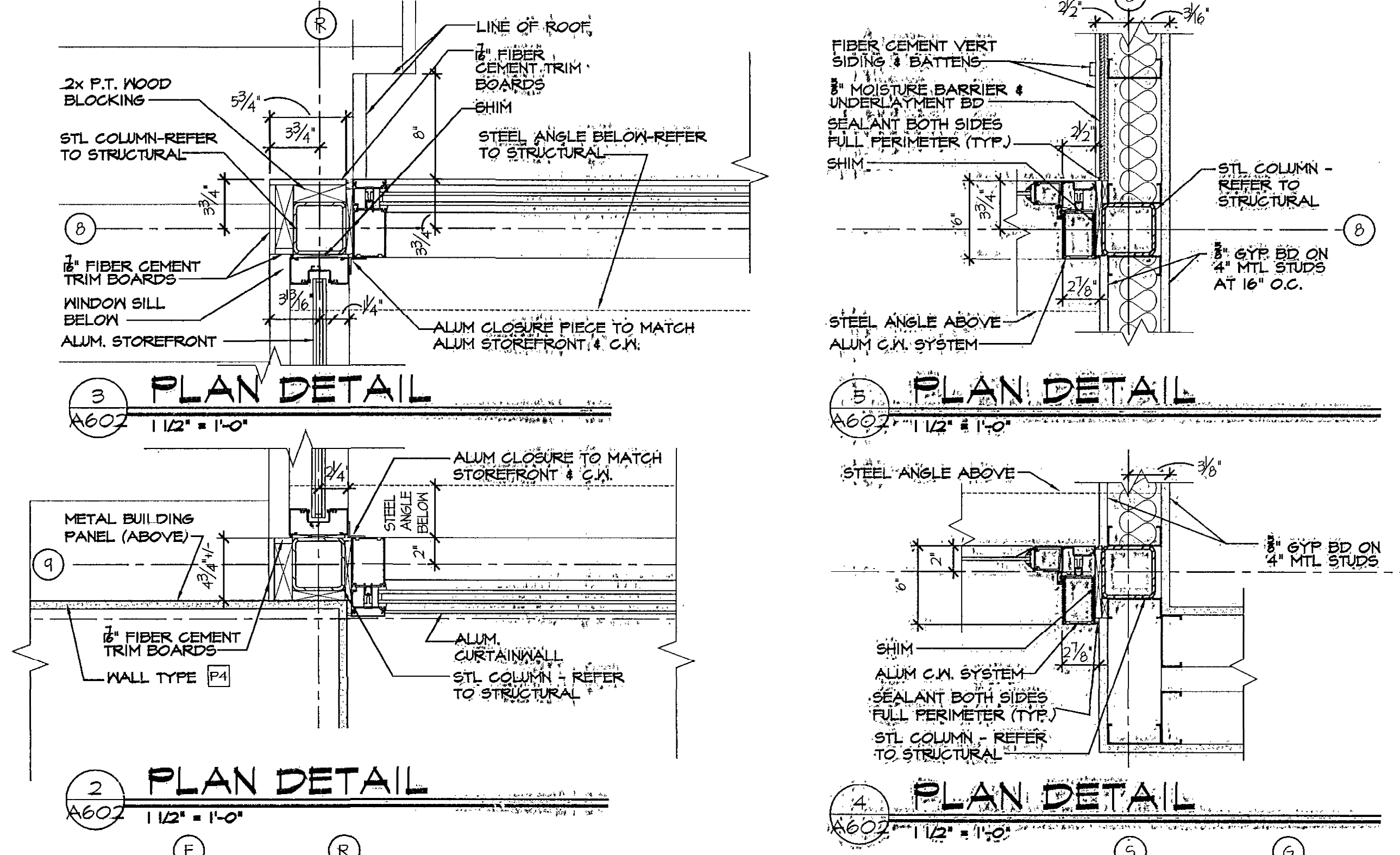
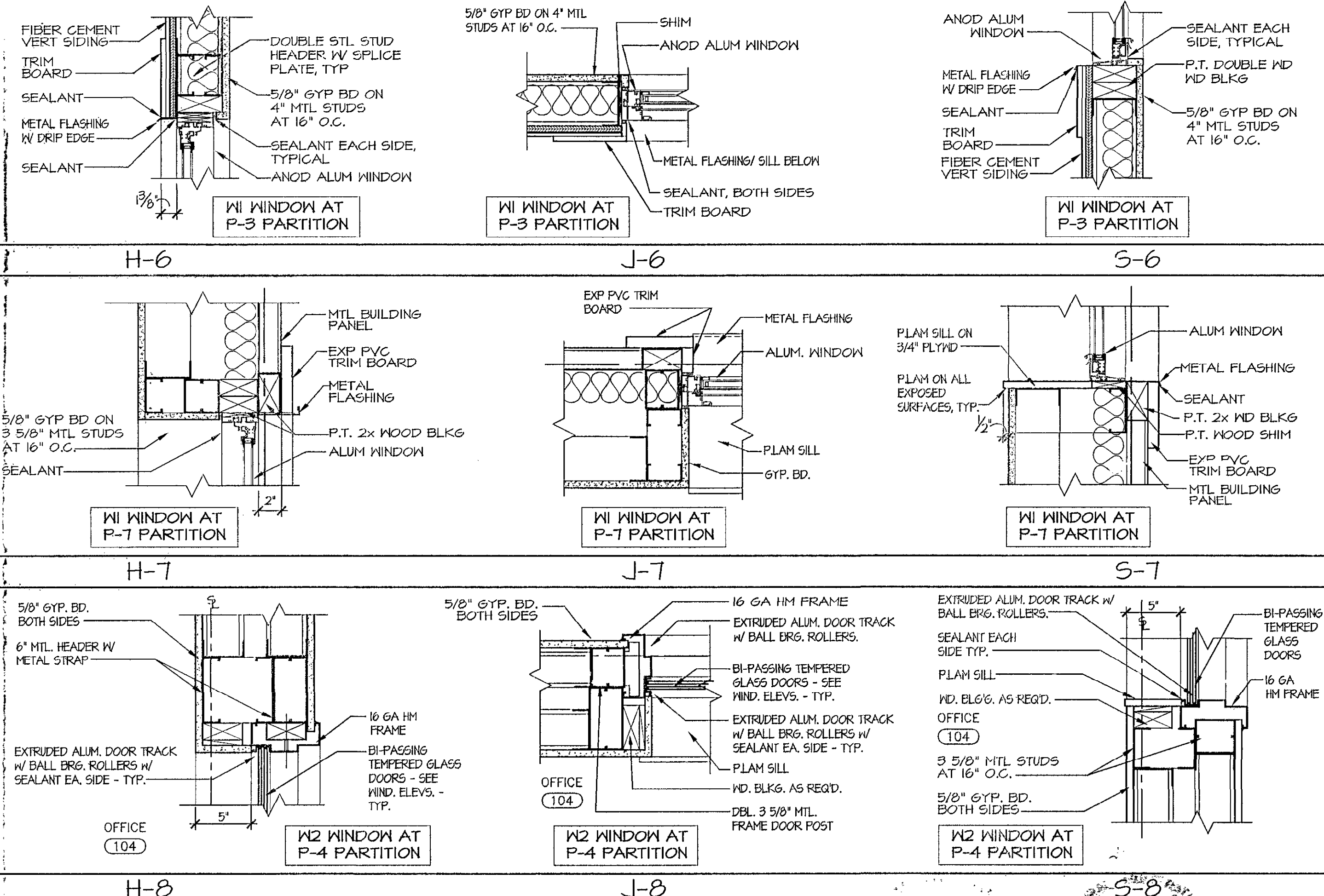
WINDOW ELEVATIONS

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



HEAD, JAMB AND SILL DETAILS

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



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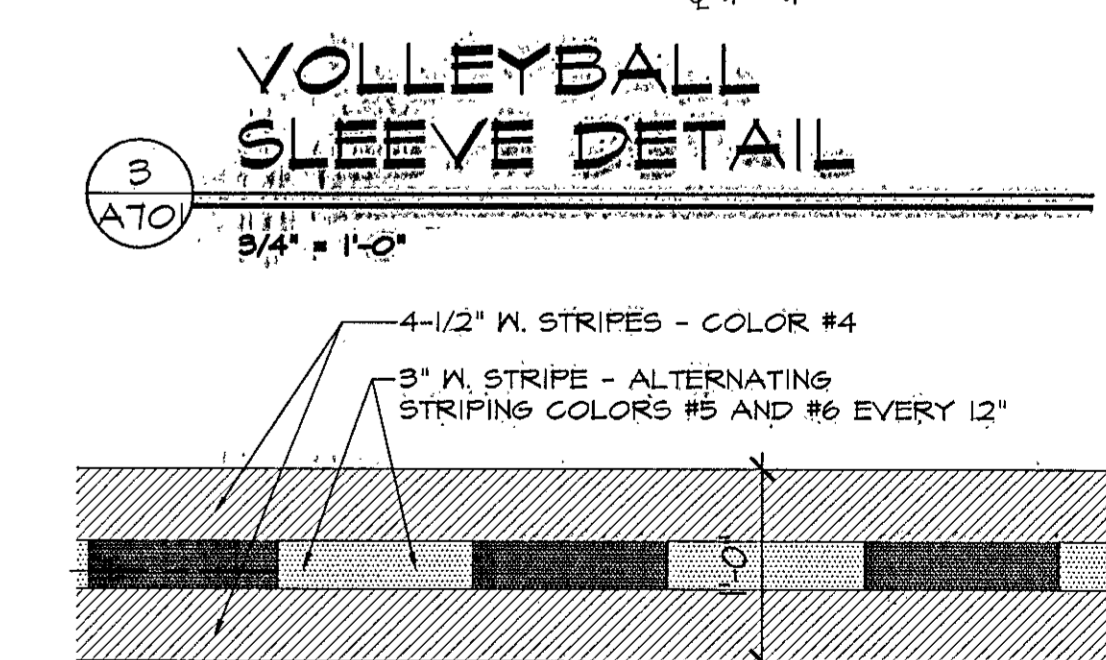
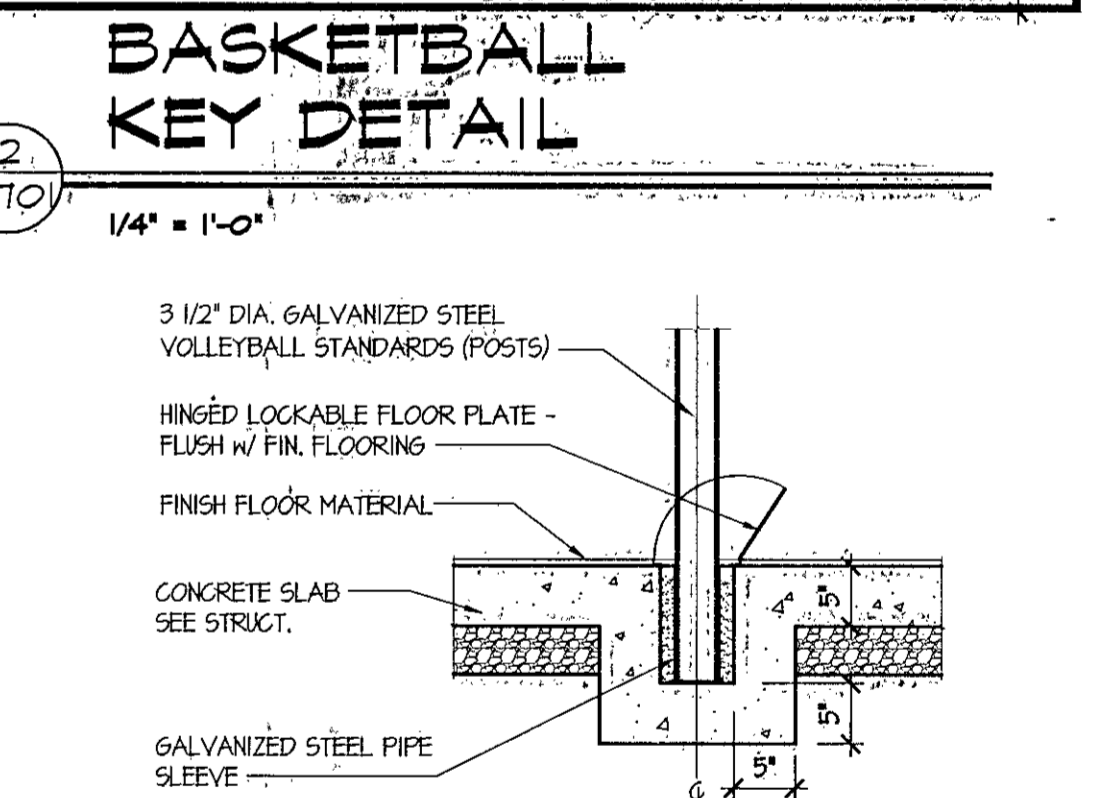
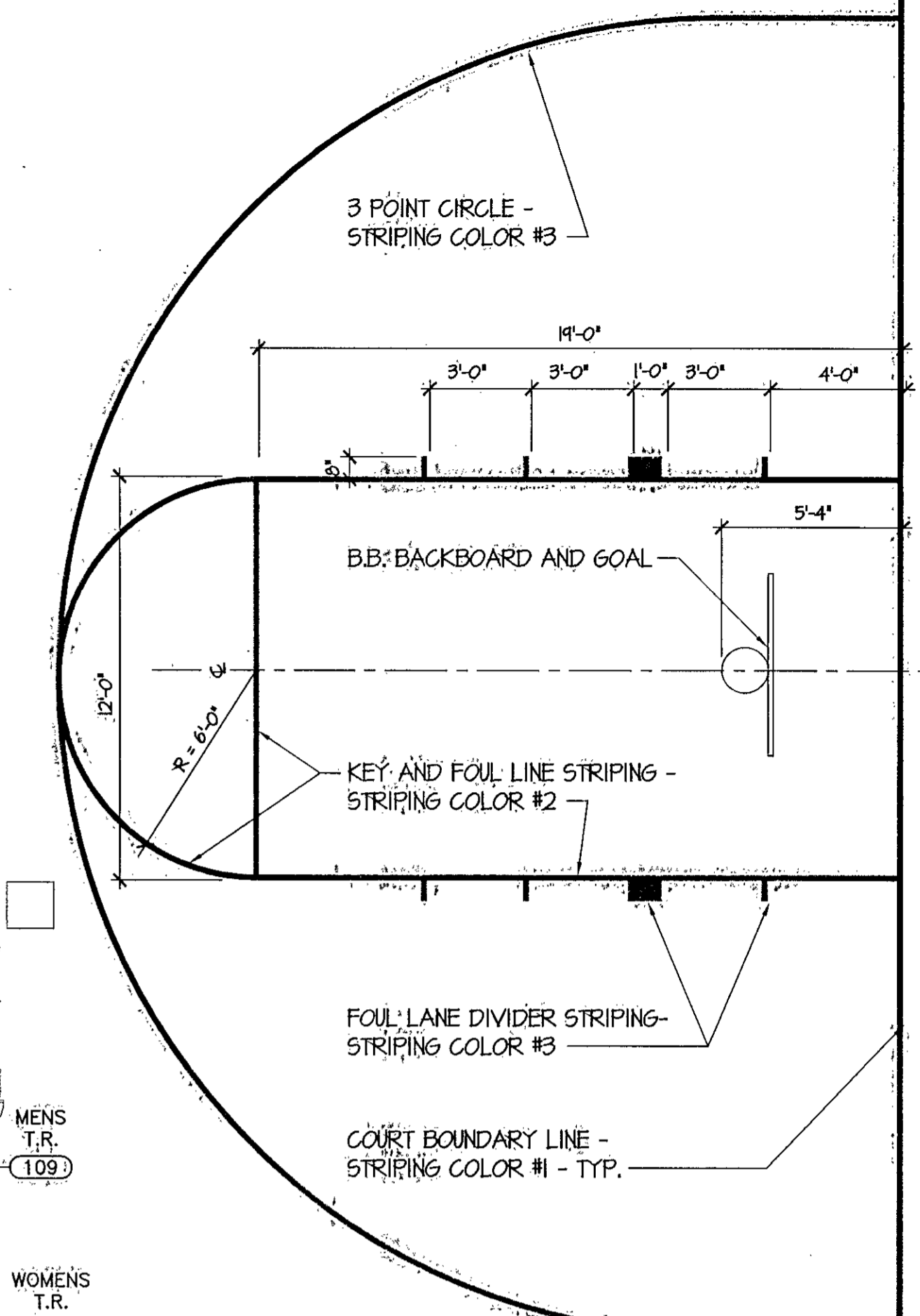
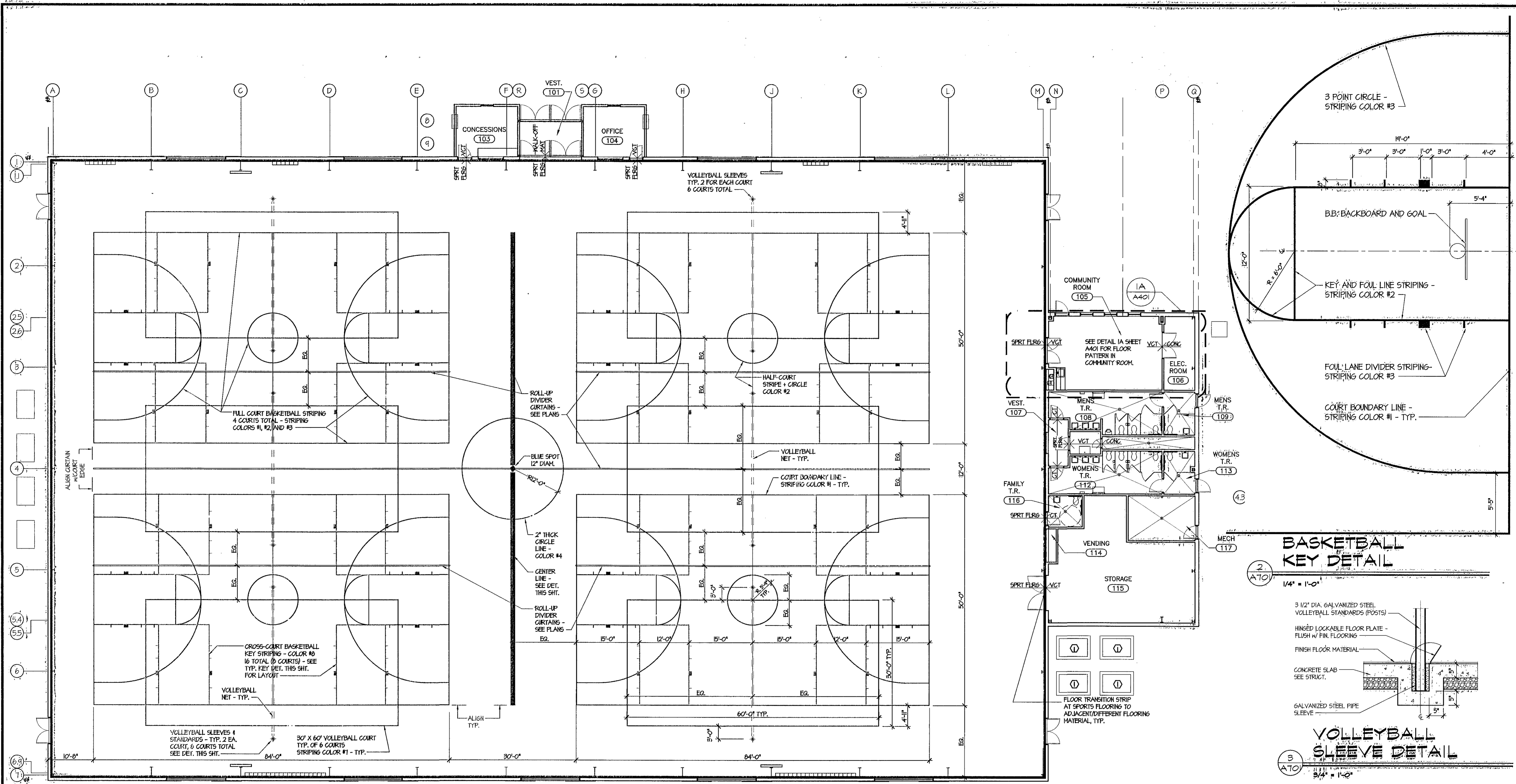
DES:	100% SUBMITTAL	01/17/06
DRN:	100% SUBMITTAL - After Owner Review Comments	11/20/06
CHK:	100% SUBMITTAL - BID SET	05/30/07
DATE:	FINAL BID SET	01/14/08

STOREFRONT & WINDOW DETAILS
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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SCALE AS SHOWN
SHEET
602

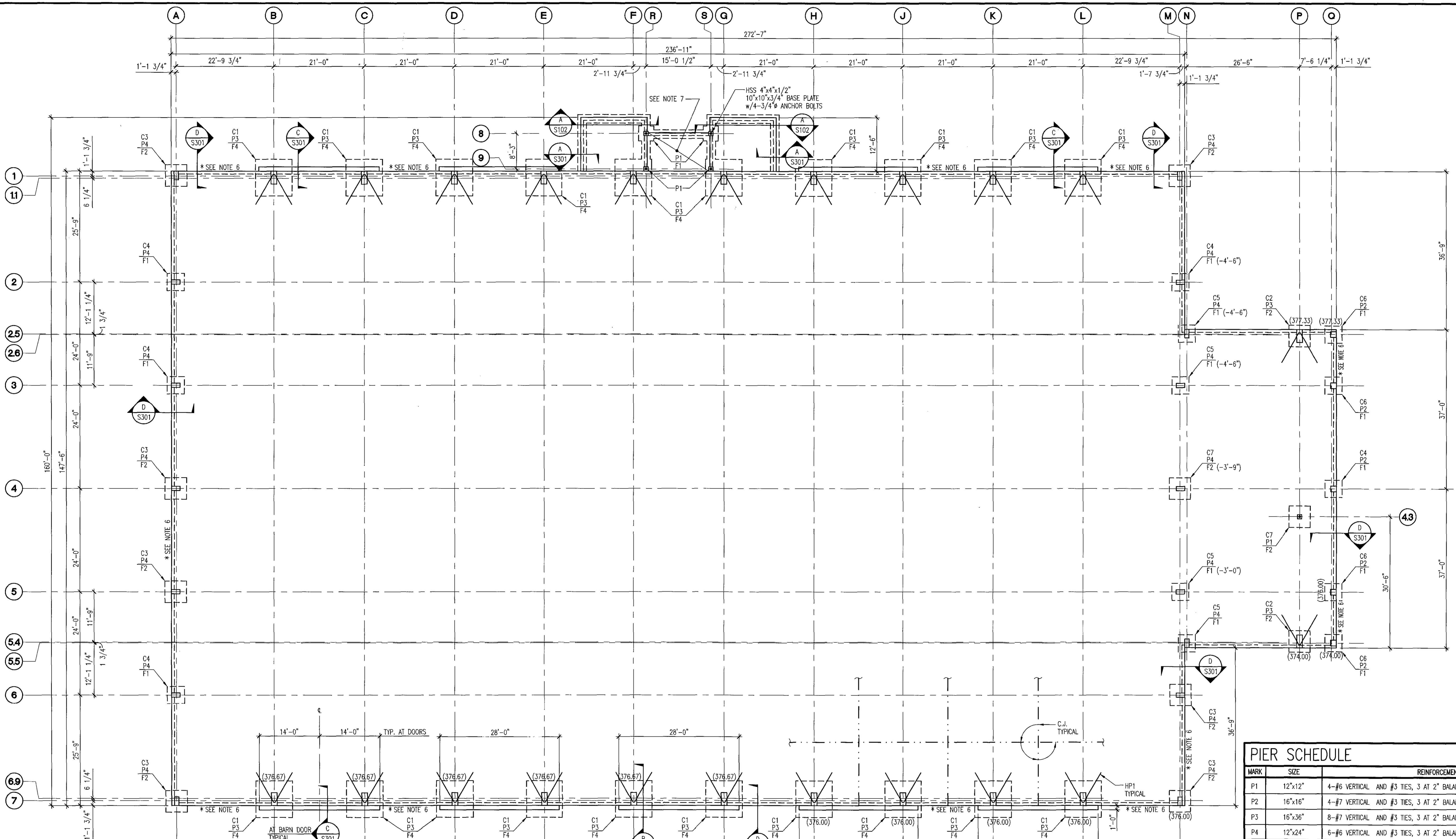


- NOTES:**
1. ALL STRIPING TO BE 2" WIDE UNLESS NOTED OTHERWISE.
 2. COLOR OF STRIPING TO BE SELECTED BY ARCHITECT OR OWNER.
 3. COURT DIMENSIONS ARE OUT-TO-OUT (INCLUSIVE OF LINES) U.N.O.
 4. PROVIDE FLOOR SLEEVE COVERS FOR ALL SPORTS EQUIPMENT SLEEVES.
 5. EXTEND SPORTS FLOORING TO DOOR JAMB AT ALL DOOR LOCATIONS - U.N.O.

COURTSTRIPING AND FLOOR FINISH PLAN

3/32" = 1'-0"

McCRONE ENGINEERING & ENVIRONMENTAL SCIENCES LAND PLANNING & SURVEYING CONSTRUCTION SERVICES 20 RIDGELY AVENUE ANNAPOLIS, MARYLAND 21401 (410) 267-9821 Fax: (410) 267-9832 ANNAPOLIS CENTREVILLE ELKTON PRINCE FREDERICK SALISBURY		DES:	100% SUBMITTAL	01/17/06	FINISH & STRIPING PLAN MEADOWBROOK SPORTS CENTER HOWARD COUNTY DEPT. OF RECREATION AND PARKS			Columbia Engineering Inc. Structural Engineers 8470-A Dobbin Road Columbia, Maryland 21045 Wash. Telephone 301.621.4015 Balto. Telephone 410.992.9970 Fax 410.992.0827 E-mail columbiag@colengineer.com	SCALE
		DRN:	100% SUBMITTAL - After Owner Review Comments	11/20/06					SHEET
		CHK:	100% SUBMITTAL - BID SET	05/30/07					A
		DATE: 1/14/08	FINAL BID SET	01/14/08					701
		BY No.			REVISION				



MARK	VERTICAL LOADS (kips)		HORIZONTAL LOADS (kips)	EARTHQUAKE LOAD (kips)
	DOWNWARD	UPLIFT		
C1	95.8	30.1	52.9	16.4
C2	25	6	3	-
C3	12	7	8	-
C4	12	5	-	-
C5	32	5	-	-
C6	7	5	2	-
C7	41	7	-	-

FOUNDATION AND SLAB ON GRADE PLAN

SCALE: 3/32"=1'-0"

NOTES:

- 1.) SLAB ON GRADE SHALL BE 5" THICK NORMAL WEIGHT CONCRETE REINFORCED WITH 6"x6", W2.9 x W2.9 W.W.F. UNLESS NOTED OTHERWISE ON 6 MIL VAPOR BARRIER OVER 4" WASHED GRAVEL. TOP OF SLAB ELEVATION SHALL BE 381.00".
- 2.) TOP OF PIER ELEVATION SHALL MATCH TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE THUS: [...].
- 3.) TOP OF EXTERIOR FOOTING ELEVATION SHALL BE 378.00 UNLESS OTHERWISE NOTED.

- 4.) FOOTING DESIGN IS BASED ON THE FOOTING LOADING SCHEDULE SHOWN ON S101. THIS SCHEDULE IS BASED ON PRELIMINARY PRE-ENGINEERED BUILDING STRUCTURAL CALCULATIONS DATED 07-13-2005. FOOTINGS MAY NEED TO BE REDESIGNED AFTER FINAL STRUCTURAL CALCULATIONS ARE SUBMITTED FOR REVIEW. SUBMIT PRE-ENGINEERED BUILDING STRUCTURAL CALCULATIONS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND.
- 5.) HP1 DENOTES 2-#5 REBAR HAIRPINS EMBEDDED 8'-0" INTO SLAB ON GRADE EACH SIDE.
- 6.) * DENOTES LOCATION OF CROSS BRACING BETWEEN PRE-ENGINEERED BUILDING COLUMNS.
- 7.) EXTENT OF DEPRESSED SLAB, SEE TYPICAL DETAIL.

MARK	SIZE	REINFORCEMENT
P1	12"x12"	4-#6 VERTICAL AND #3 TIES, 3 AT 2" BALANCE AT 8"o.c.
P2	16"x16"	4-#7 VERTICAL AND #3 TIES, 3 AT 2" BALANCE AT 8"o.c.
P3	16"x36"	8-#7 VERTICAL AND #3 TIES, 3 AT 2" BALANCE AT 8"o.c.
P4	12"x24"	6-#6 VERTICAL AND #3 TIES, 3 AT 2" BALANCE AT 8"o.c.

MARK	SIZE	THICK	REINFORCEMENT
F1	4'-0"x4'-0"	12"	5-#4 EACH WAY BOTTOM
F2	5'-0"x5'-0"	12"	6-#5 EACH WAY BOTTOM
F3	NOT USED		
F4	8'-6"x8'-6"	18"	9-#7 EACH WAY BOTTOM

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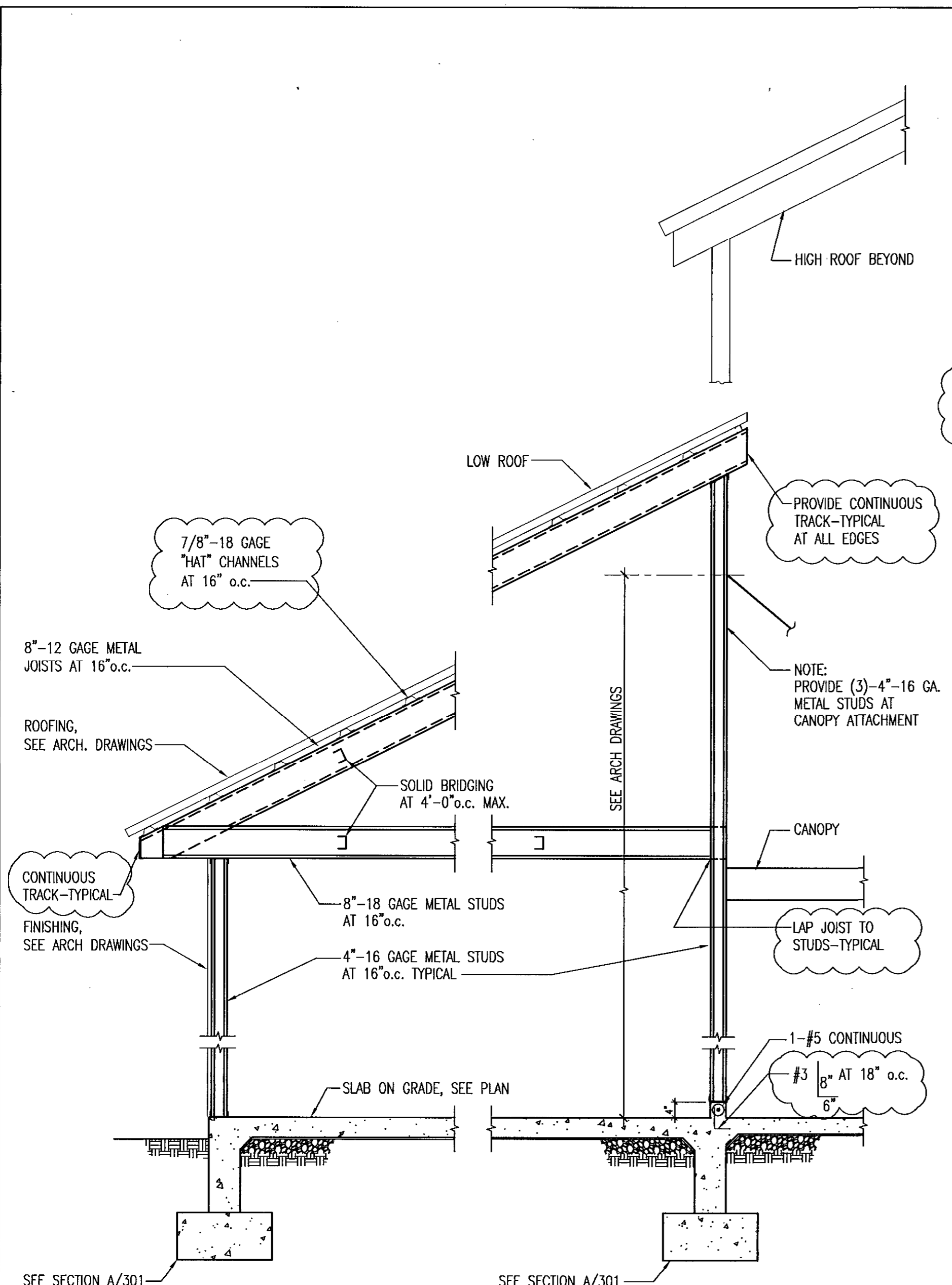
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DRN:	HW	100% CD REVIEW SET	9/1/05
CHK:	RC	100% CD OWNER REVIEW COMMENTS	1/17/06
DATE:	8/2/05	BID SET	11/20/06
		100% - FINAL BID SET	5/30/07
			1/14/08

FOUNDATION AND SLAB ON GRADE PLAN
MEADOWBROOK PARK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

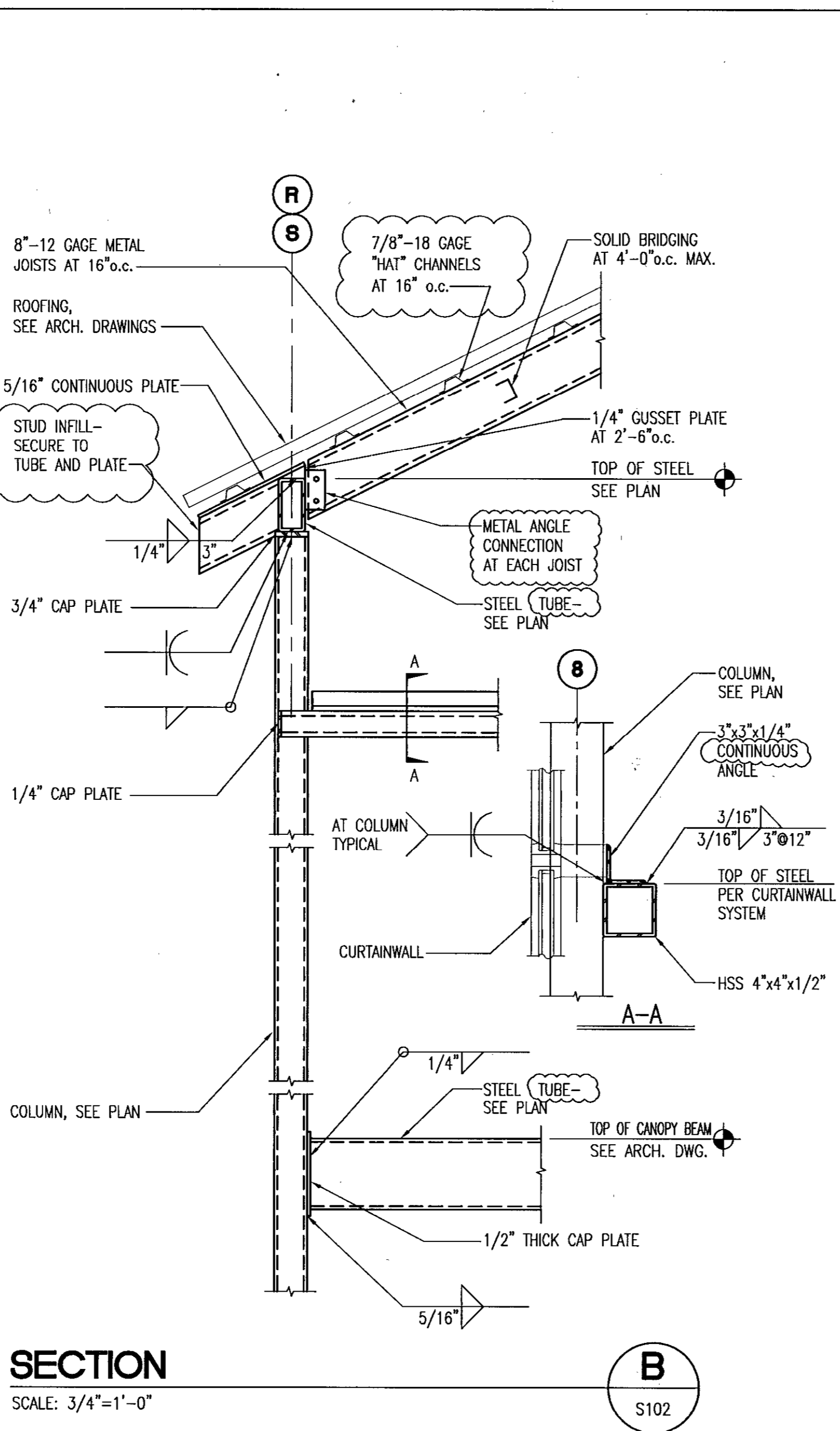
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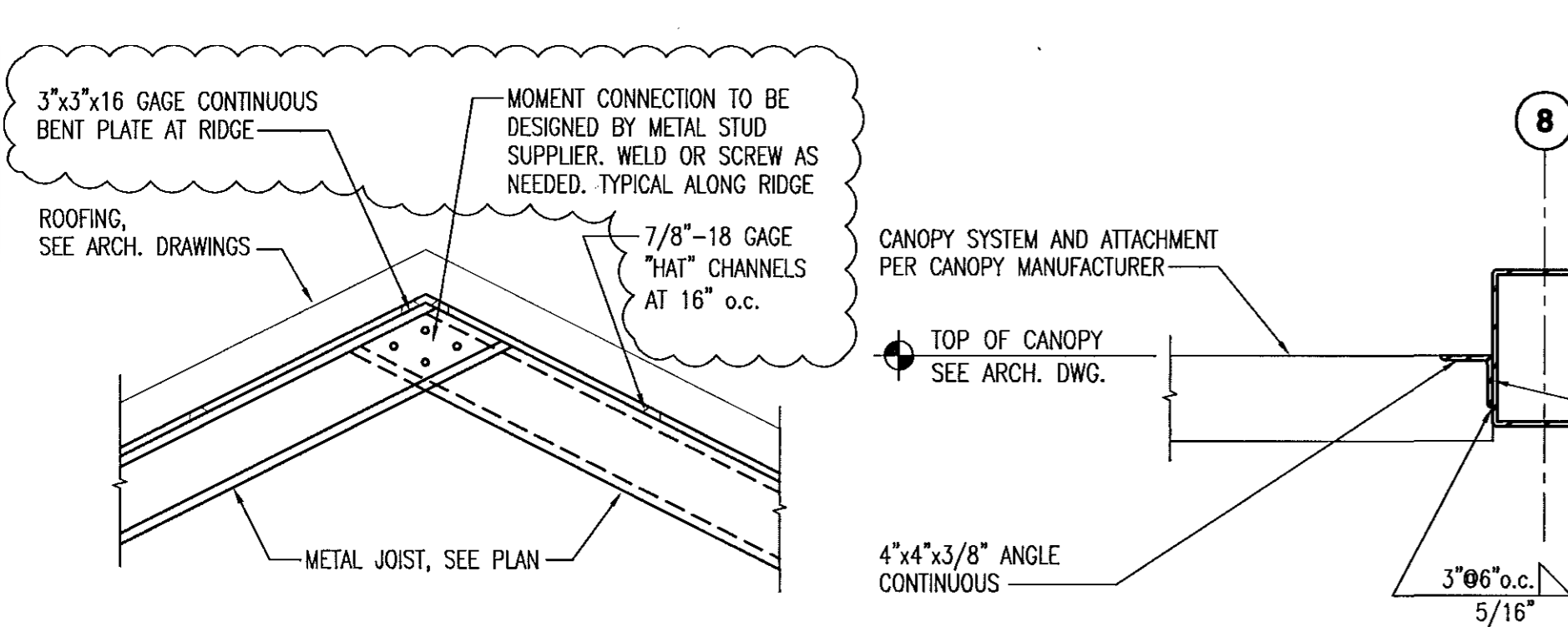
SCALE AS NOTED
SHEET 5 OF 10



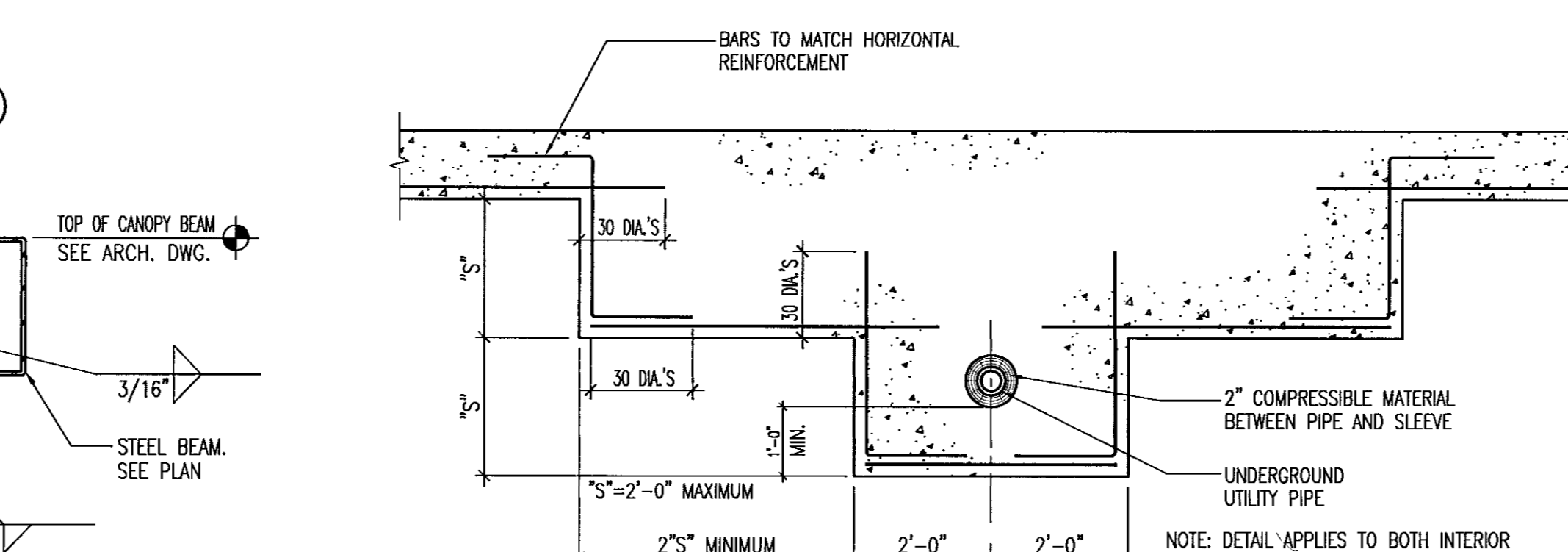
SECTION A
SCALE: 1/2"=1'-0"
S102



SECTION B
SCALE: 3/4"=1'-0"
S102

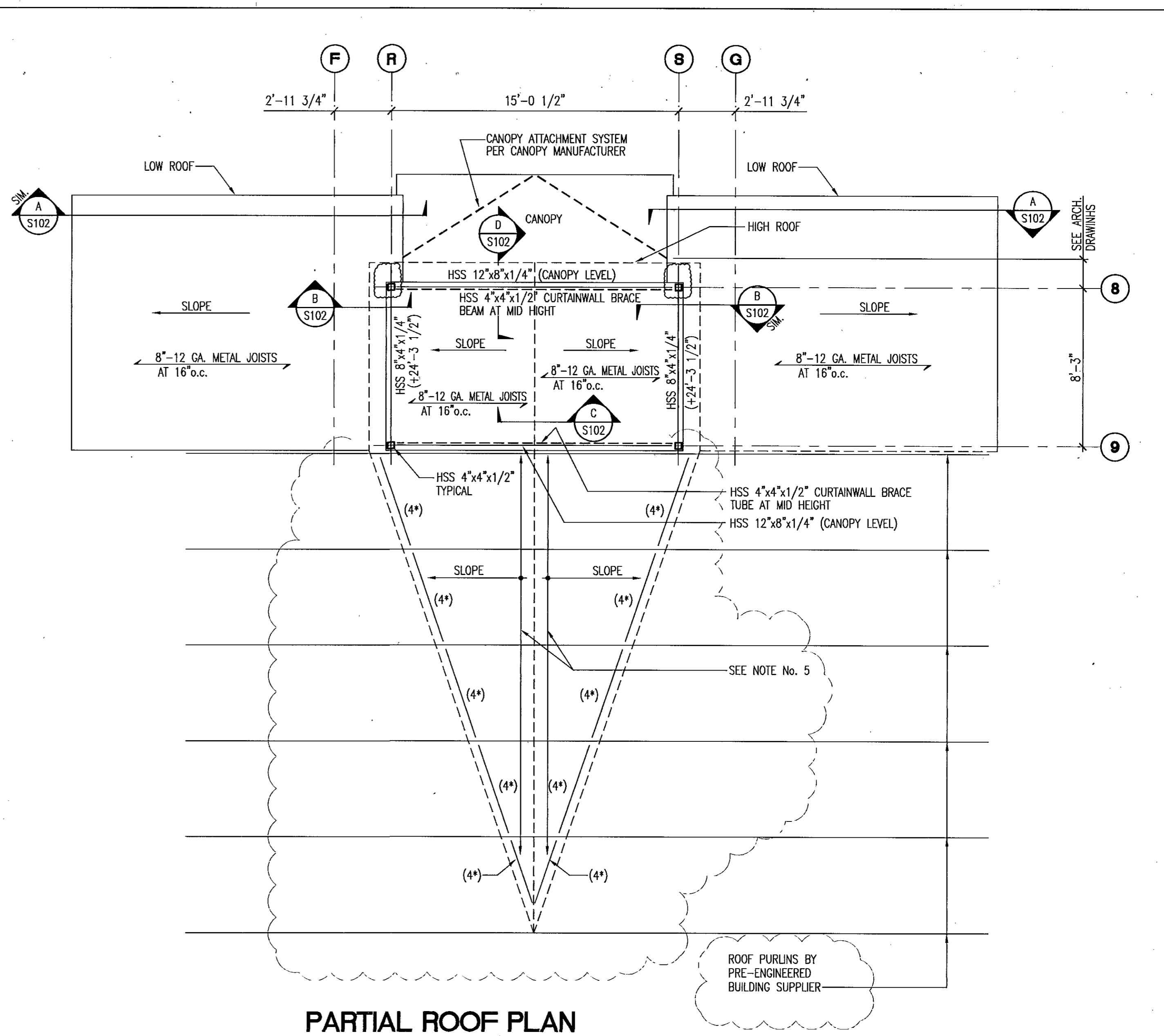


SECTION C
SCALE: 1"=1'-0"
S102



SECTION D
SCALE: 1"=1'-0"
S102

TYPICAL THICKENED FOOTING DETAIL AT UTILITY LINES



PARTIAL ROOF PLAN
SCALE: 1/4"=1'-0"
NOTES:
1.) TOP OF STEEL BEAM ELEVATION NOTED THUS: (X'-X") IS MEASURED FROM TOP OF SLAB ON GRADE ELEVATION.
2.) VERIFY TOP OF STEEL ELEVATION WITH THE ARCHITECT PRIOR TO CONSTRUCTION AND FABRICATION OF MATERIALS.
3.) ALIGN BEARING WALL STUDS WITH ROOF JOISTS.
4.) (4*) DENOTES PRE-ENGINEERED JOIST BETWEEN ROOF PURLINS TO SUPPORT VALLEY FRAMING AND OVERBUILT SECTION.
5.) FRAMING AT OVERBUILT SECTION TO BE COMPOSED OF 8"-14 GAGE METAL STUDS AT 16" o.c. WITH 7/8",-18 GAGE "HAT" CHANNELS AT 16" o.c.

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ARCHITECTURAL REGISTRATION
7636A
STATE OF MARYLAND
PHILIP R. LESTER
REGISTERED ARCHITECT

DES:	100% SUBMITTAL	01/17/08
	100% SUBMITTAL - After Owner Review Comments	11/20/08
DRN:	100% SUBMITTAL - BID SET	05/30/07
	FINAL BID SET	01/14/08
CHK:	ADDENDA # 2 (K-S)	2/25/08
DATE: 1/14/08	BY No.	REVISION

PLAN AND SECTIONS

MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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SCALE: AS NOTED
SHEET: S
102
CEI21128

GENERAL NOTES

FOUNDATION AND SLAB-ON-GRADE:

- FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 2500 PSF. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL, 1'-0" BELOW ORIGINAL GRADE OR ON STRUCTURALLY COMPACTED FILL AND BOTTOM OF EXTERIOR FOOTINGS SHALL BE 2'-6" BELOW FINISHED GRADE. A GEOTECHNICAL ENGINEER REGISTERED IN MARYLAND SHALL VERIFY SOIL PRESSURE IN THE FIELD. IF FOUND TO BE LESS THAN 250 PSF, THE FOOTINGS WILL HAVE TO BE REDESIGNED.
- ALL FILL UNDER SLABS-ON-GRADE SHALL BE COARSE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. SLABS-ON-GRADE SHALL BE STRIP POURED IN ACCORDANCE WITH ACI 302.1R "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (LATEST LOCAL APPROVED EDITION), SAW CUT CONTROL JOINTS SUCH THAT TOTAL AREA BOUNDED BY SAW CUTS AND FORMED EDGES DOES NOT EXCEED 650 SQ/FT.

CONCRETE:

- ALL CONCRETE, EXCEPT AS NOTED, SHALL BE $f'_c=3000$ PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE $f'_c=4500$ PSI NORMAL WEIGHT CONCRETE AND SHALL BE AIR ENTRAINED PER ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) FOR SEVERE EXPOSURE. SEE SPECIFICATION SECTION 03300 - 4 / PARA. 2.5.C.
- ALL REINFORCING SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (LATEST LOCAL APPROVED EDITION).
- ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) EXCEPT AS NOTED ON PLANS.
- WELDED WIRE FABRIC (W.W.F.) SHALL HAVE ENDS LAPPED ONE FULL MESH.
- UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:
CAST AGAINST EARTH..... 3"
EXPOSED TO EARTH OR WEATHER:
No. 6 AND LARGER BARS..... 2"
No. 5 AND SMALLER BARS..... 1 1/2"
- CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT AND WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF THE FOLLOWING ACI AND ASTM DOCUMENTS:
ACI-301..... SPECIFICATIONS FOR STRUCTURAL CONCRETE
ACI-318..... CODE
ACI-214..... COMPRESSIVE TEST
ACI-306..... COLD WEATHER
ACI-315..... DETAILING
ACI-347..... FORMWORK
ACI-305..... HOT WEATHER
ACI-211..... PROPORTIONS OF CONCRETE
ACI-304..... PLACING CONCRETE
ASTM C-94..... READY-MIX CONCRETE
- ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF ASTM:
ASTM C-31..... FIELD CYLINDER SPECIMENS
ASTM C-143..... SLUMP TEST
ASTM C-231..... AIR CONTENT (WHEN REQUIRED)
ASTM C-39..... LAB TESTING CYLINDERS
ASTM C-172..... SAMPLING FRESH CONCRETE
ASTM C-42..... HARDENED CORES (WHEN REQUIRED)
TEST RESULTS SHALL BE SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.
- ALL FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347, "GUIDE TO FORMWORK FOR CONCRETE", (LATEST LOCAL APPROVED EDITION).

STEEL:

- STRUCTURAL STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992. STRUCTURAL STEEL FOR TUBES SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE B. STRUCTURAL STEEL FOR PIPES SHALL CONFORM TO ASTM SPECIFICATION A53 TYPE E, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM SPECIFICATION A36. MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE. ALL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE BEAM. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS UNLESS OTHERWISE NOTED AND SHOP CONNECTIONS SHALL BE WELDED.
- BOLTS, EXCEPT AS NOTED, NEED ONLY BE INSTALLED TO THE "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS". BOLTS IN BEAM TO COLUMN CONNECTIONS THAT HAVE SLOTTED HOLES, BOLTS NOTED AS SLIP CRITICAL, AND BOLTS SUBJECT TO DIRECT TENSION SHALL BE FULLY PRE-TENSIONED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS" (LATEST LOCAL APPROVED).
- WELDS SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.
- CONNECTIONS DETAILED BY THE FABRICATOR SHALL MEET THE FOLLOWING REQUIREMENTS:
a.) ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE, SINGLE ANGLE OR SINGLE PLATE SHEAR CONNECTIONS DESIGNED AND DETAILED IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION (LATEST LOCAL APPROVED EDITION). MINIMUM EDGE DISTANCE FOR BOTH BEAMS AND PLATES IN SINGLE PLATE SHEAR CONNECTIONS SHALL BE 1 1/2" AND BOLT SPACING 3".
b.) ALTERNATE CONNECTIONS TO THOSE SPECIFIED ABOVE MAY BE CONSIDERED FOR USE PROVIDED THAT COMPLETE STRUCTURAL COMPUTATIONS AND DETAILS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION ARE SUBMITTED FOR REVIEW.

STEEL CONTINUED:

- ALL GROOVE WELDS SHALL BE FULL PENETRATION GROOVE WELDS IN ACCORDANCE WITH ANSI/AWS D1.1, "STRUCTURAL WELDING CODE" (LATEST LOCAL APPROVED EDITION). THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TEST IN THE "STRUCTURAL WELDING CODE". ACCEPTANCE SHALL BE SUBJECT TO THE INSPECTION AND REVIEW OF AN INDEPENDENT INSPECTION AGENCY. ALL FULL PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED.
- WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS MINIMIZED AND UNDUO DISTORTION IS AVOIDED.
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER.
- FIELD STRUCTURAL STEEL SHALL BE INSPECTED BY QUALIFIED INSPECTORS APPROVED BY THE STRUCTURAL ENGINEER. FIELD INSPECTION REPORTS SHALL BE FILED WITH THE STRUCTURAL ENGINEER WITHIN 5 DAYS OF THE TIME OF ACTUAL INSPECTION. INSPECTORS MUST BE NOTIFIED OF ALL PHASES OF CONSTRUCTION BY THE GENERAL CONTRACTOR.

METAL STUDS:

- GALVANIZED STUDS AND JOISTS 12, 14 AND 16 GAGE SHALL BE FORMED FROM STEEL THAT CONFORMS TO ASTM A653, GRADE 50 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI. ALL GALVANIZED 18 AND 20 GAGE STUDS AND JOISTS, AND ALL GALVANIZED TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653, GRADE 55 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. METAL STUDS SHALL BE BY DATE/INCOB OR EQUIVALENT.
- ALL STUDS JOISTS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING.
- FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE WITH COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING, HANDLING AND LIFTING OF PREFABRICATED FRAME PANELS SHALL BE DONE IN A MANNER AS NOT TO CAUSE DISTORTION IN ANY MEMBER.
- PROVIDE UNIFORM AND LEVEL BEARING SUPPORT FOR THE BOTTOM TRACK.
- AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE BUTT WELDED OR SPLICED TOGETHER.
- STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF THE TRACKS. THE ENDS OF THE STUDS MUST BEAR AGAINST THE WEB OF BOTH UPPER AND LOWER TRACKS. PROVIDE SHIMS AND/OR WELD AS REQUIRED TO PROVIDE FULL BEARING.
- SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
- WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION. BRIDGING ROWS SHALL BE EQUALLY SPACED NOT TO EXCEED 4'-0" O.C.
- TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION OF THE STRUCTURAL SYSTEM IS COMPLETE.
- SIZES AND GAGES OF METAL STUDS SHOWN ARE MINIMUM REQUIREMENTS. STUDS SHALL BE DESIGNED FOR THE WIND LOADS REQUIRED BY THE LOCAL BUILDING CODE AND SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION. FOR BIDDING PURPOSES, PROVIDE MULTIPLE STUDS AT EACH SIDE OF OPENINGS EQUAL TO ONE-HALF OPENING WIDTH DIVIDED BY STUD SPACING.

PRE-ENGINEERED METAL BUILDING:

- THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED FOR THE LIVE LOADS SHOWN ON THE PLANS. THE PRE-ENGINEERED BUILDING DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN MARYLAND.
- THE PRE-ENGINEERED METAL BUILDING ROOF SHALL BE DESIGNED FOR A MINIMUM COLLATERAL LOAD OF 10 PSF TO ACCOUNT FOR PLUMBING, LIGHTS AND MECHANICAL DUCT WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE PLACEMENT OF THE ANCHOR BOLTS WITH THE METAL BUILDING DRAWINGS. THE DIMENSIONS SHOWN ON THE PLAN ARE TO THE CONCRETE PIERS.
- ROOF MEMBERS THAT ARE USED TO SUPPORT BACK BOARDS MUST BE DESIGNED FOR AN ADDITIONAL VERTICAL AND HORIZONTAL LOAD OF 500 LBS AT EACH SUPPORT. COORDINATE WITH THE DRAWINGS FOR THE LOCATIONS OF THE BACK BOARDS. COORDINATE WITH THE BACK BOARD SUPPLIER FOR THE METHOD OF ATTACHMENT.
- ROOF MEMBERS THAT ARE USED TO SUPPORT HANGING NETS MUST BE DESIGNED FOR A UNIFORM LOAD OF 8 LBS PER FOOT OR A 1040 LBS CONCENTRATED LOAD ANYWHERE ALONG THE SPAN OF THE NET. COORDINATE WITH THE DRAWINGS FOR THE LOCATIONS OF THE NETS. COORDINATE WITH THE NET SUPPLIER FOR THE METHOD OF ATTACHMENT.

MISCELLANEOUS:

- SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM COLUMBIA ENGINEERING INC., WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND/OR THE DESIGN OF THE PROJECT.

AT THE TIME OF SHOP DRAWING SUBMISSION, THE GENERAL CONTRACTOR SHALL STATE IN WRITING ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY AND SHALL CERTIFY ON EACH DRAWING AS FOLLOWS:

"I CERTIFY THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND ALL DIMENSIONS, CONDITIONS, AND QUANTITIES ARE VERIFIED AS SHOWN AND/OR AS CORRECTED ON THIS DRAWING".

SIGNED: _____
(FOR GENERAL CONTRACTOR)
- ALL STAIRS, RAILINGS, METAL STUD WALLS AND GLASS STOREFRONT SHALL BE DESIGNED FOR LOADS INDICATED IN THE LOCAL BUILDING CODE. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

MISCELLANEOUS CONTINUED:

- THE BUILDING FRAME IS NOT SELF SUPPORTING UNTIL THE ENTIRE STRUCTURAL SYSTEM HAS BEEN INSTALLED. TEMPORARY BRACING MUST BE PROVIDED BY THE CONTRACTOR TO SUPPORT THE FRAME UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.
- ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE OWNER OR CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF HIS DESIGN SERVICE. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.
- ALL WORK SHALL COMPLY W/ CURRENT IBC CODE AND ALL LOCAL AMENDMENTS.

ROOF LOAD:

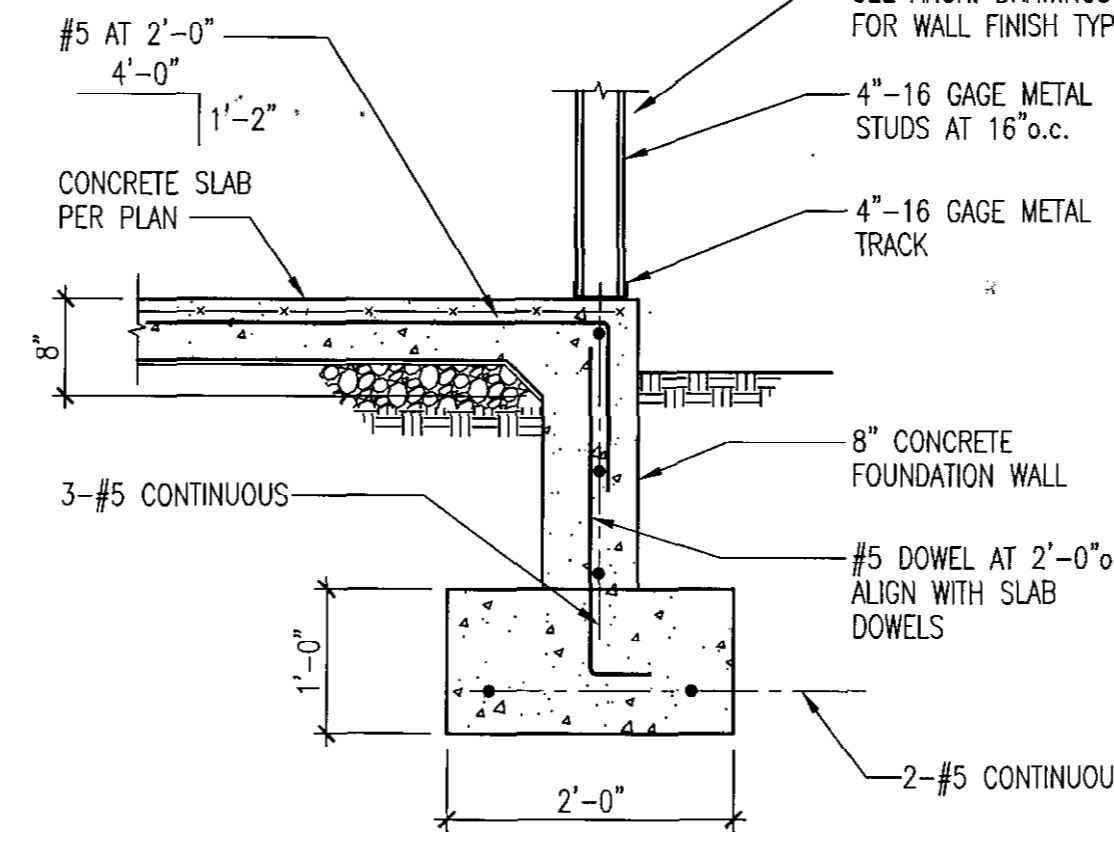
- LIVE LOAD..... 30 PSF (NON REDUCIBLE)
- GROUND SNOW LOAD (Pg)..... 25 PSF
- FLAT ROOF SNOW LOAD (Pf)..... 22 PSF
- SNOW EXPOSURE FACTOR (Ce)..... 1.0
- SNOW LOAD IMPORTANCE FACTOR (Is)..... 1.1
- THERMAL FACTOR (Ct)..... 1.0

WIND LOAD:

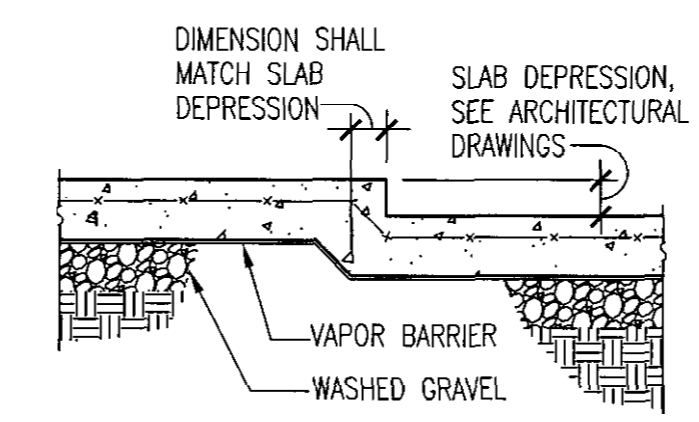
- BASIC WIND SPEED (3 SECOND GUST)..... 90 MPH
- WIND LOAD IMPORTANCE FACTOR (Iw)..... 1.15 (CATEGORY III)
- WIND EXPOSURE..... C

EARTHQUAKE DESIGN DATA:

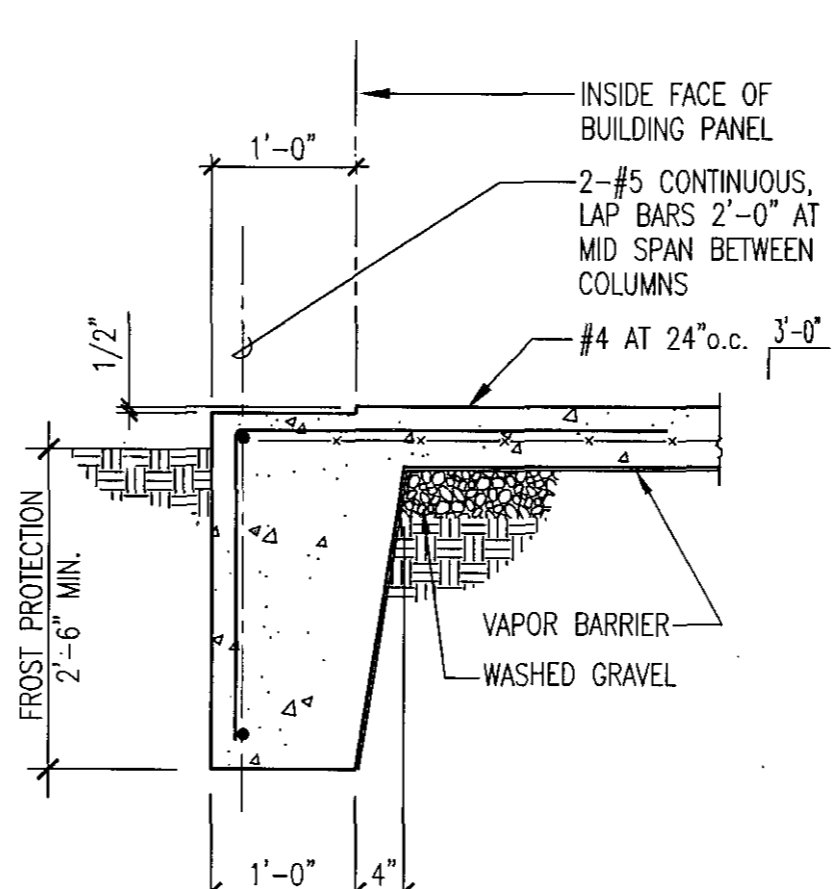
- SEISMIC USE GROUP..... II
- SPECTRAL RESPONSE COEFFICIENTS (S_w AND S_u)..... 0.21 AND 0.11
- SITE CLASS..... D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM..... MOMENT RESISTING FRAME
- DESIGN BASE SHEAR (V)..... 17 KIPS
- ANALYSIS PROCEDURE..... EQUIVALENT LATERAL FORCE PROCEDURE



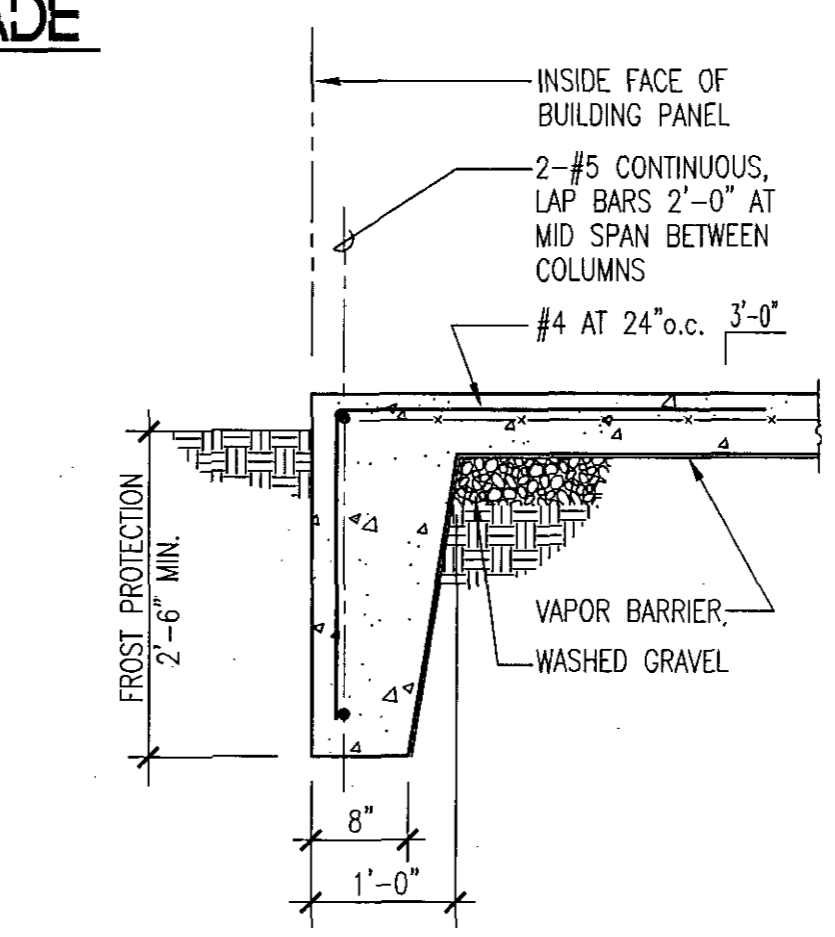
SECTION A
SCALE: 3/4"=1'-0"
S301



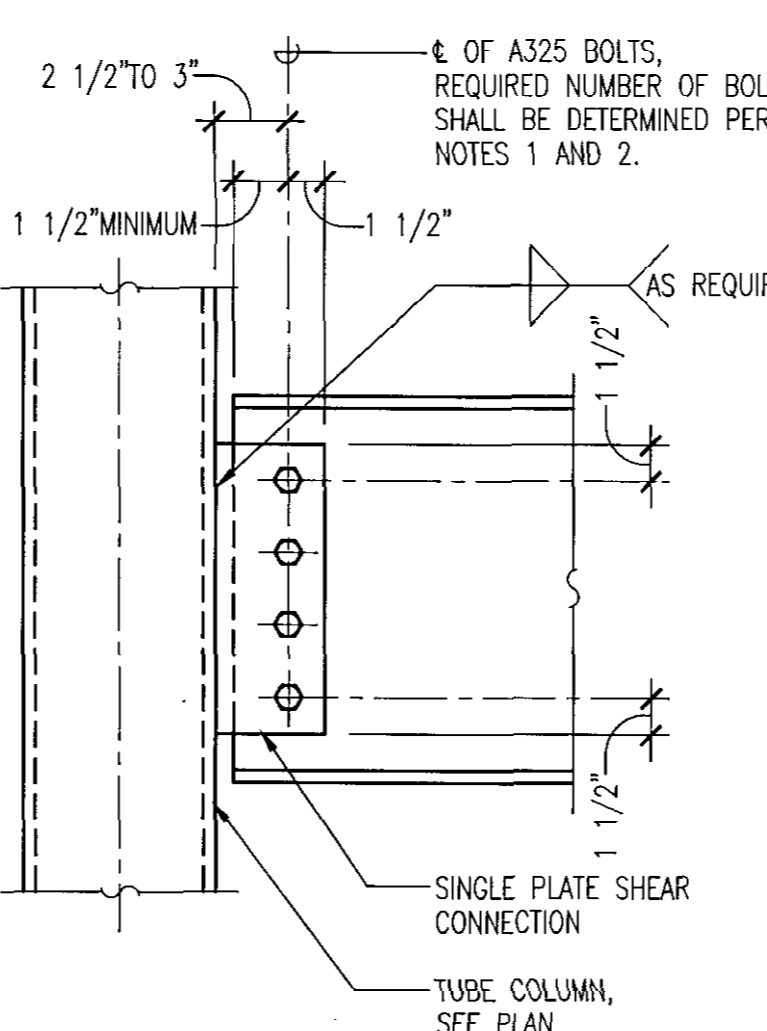
TYPICAL DEPRESSED SLAB ON GRADE



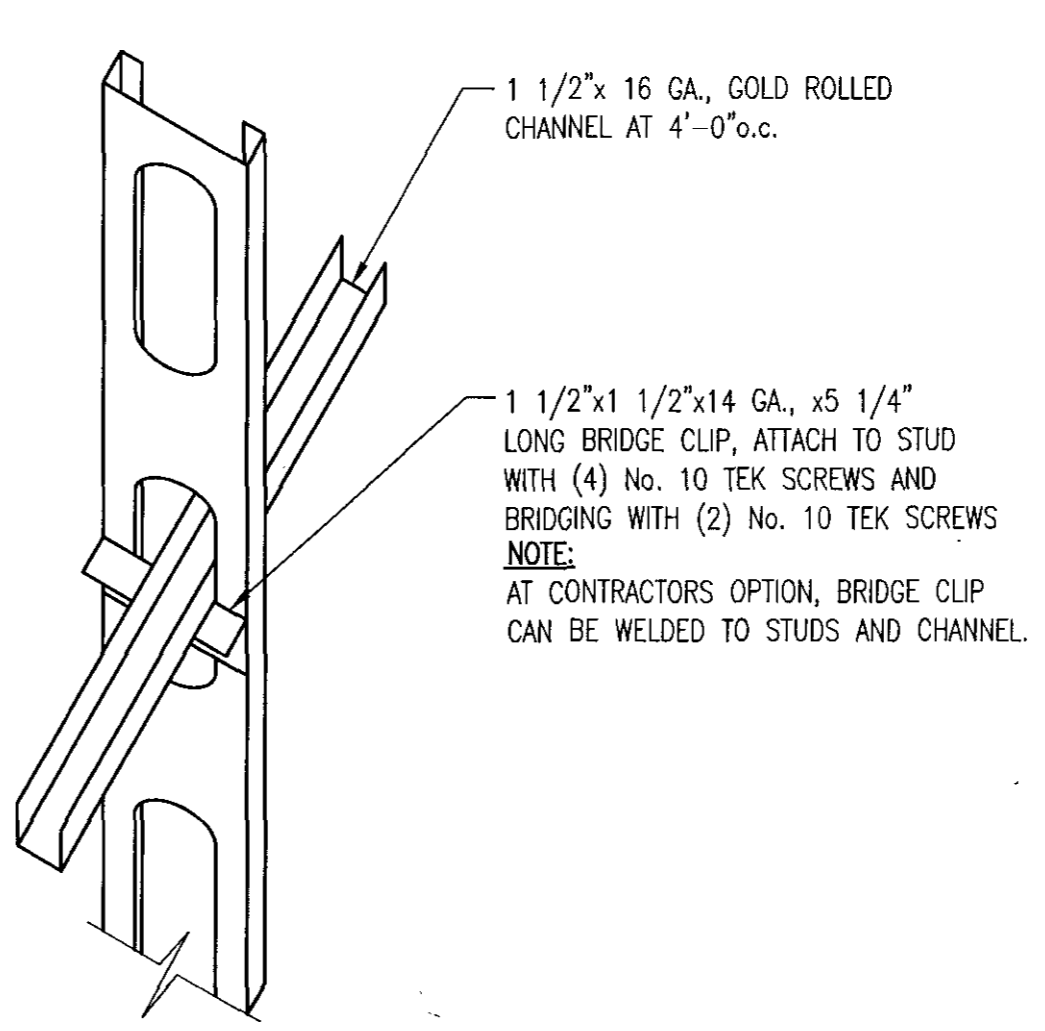
SECTION C
SCALE: 3/4"=1'-0"
S301



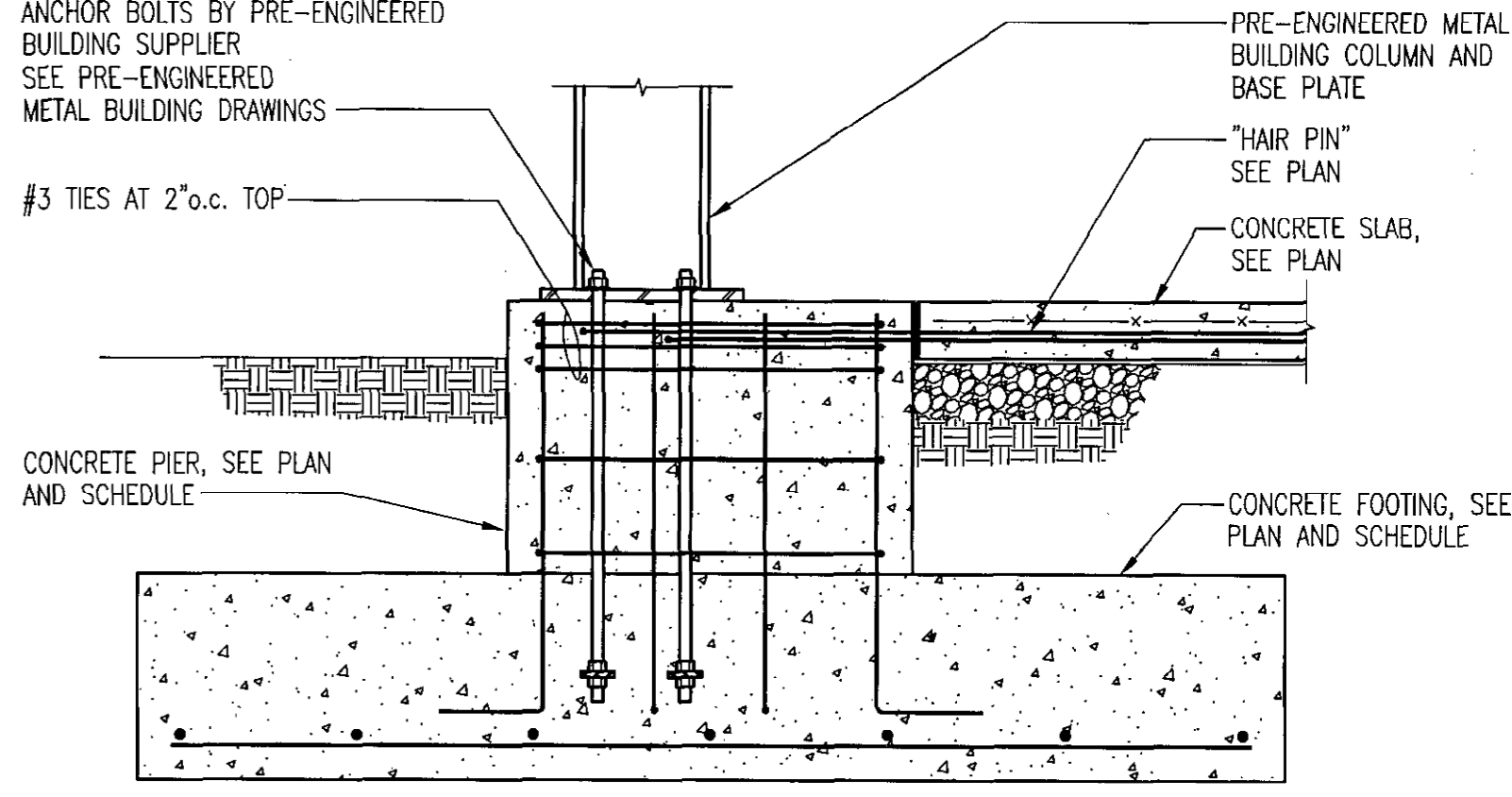
TYPICAL TURNED DOWN SLAB
S301



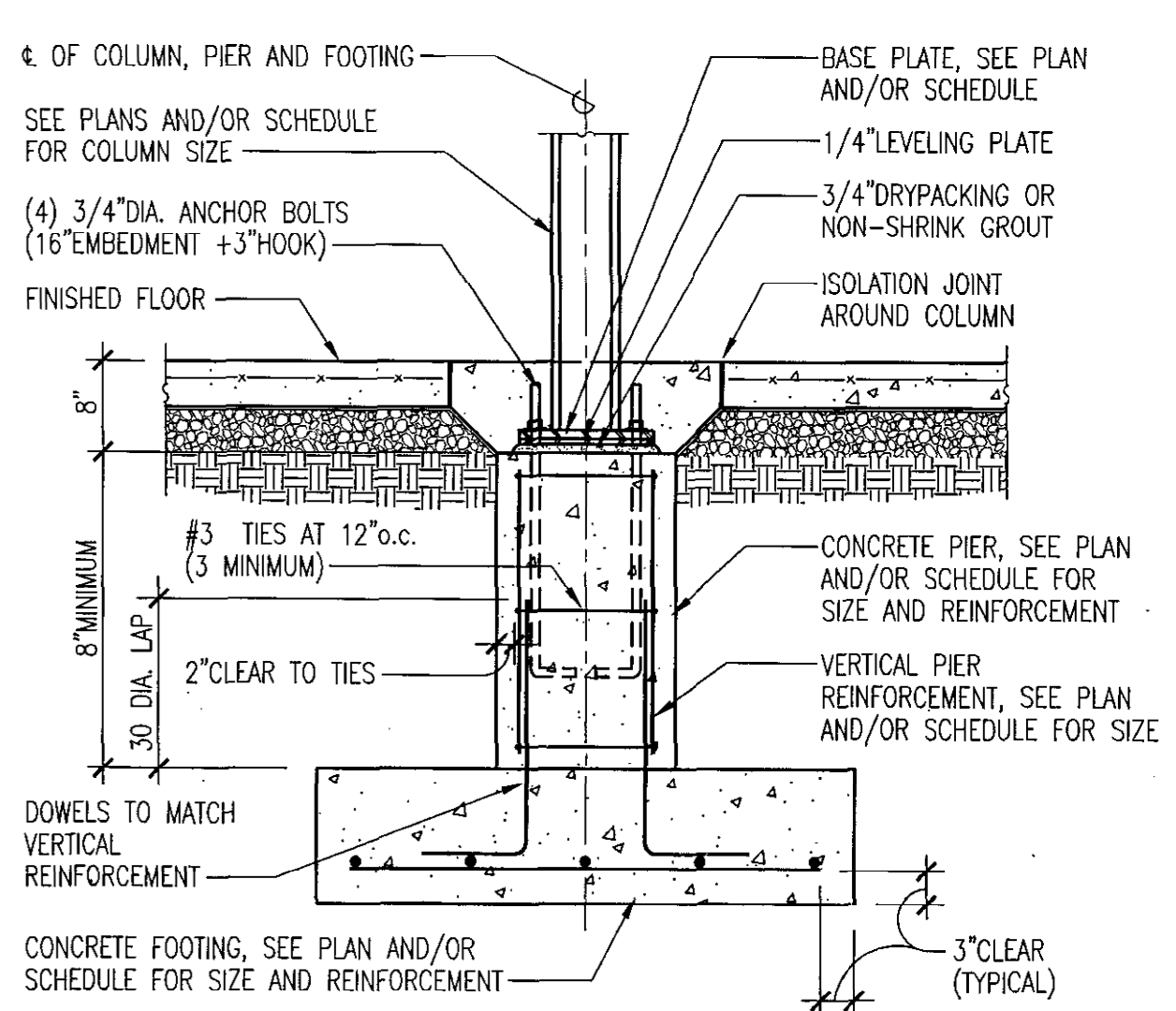
TYPICAL BEAM TO TUBE OR PIPE CONNECTION



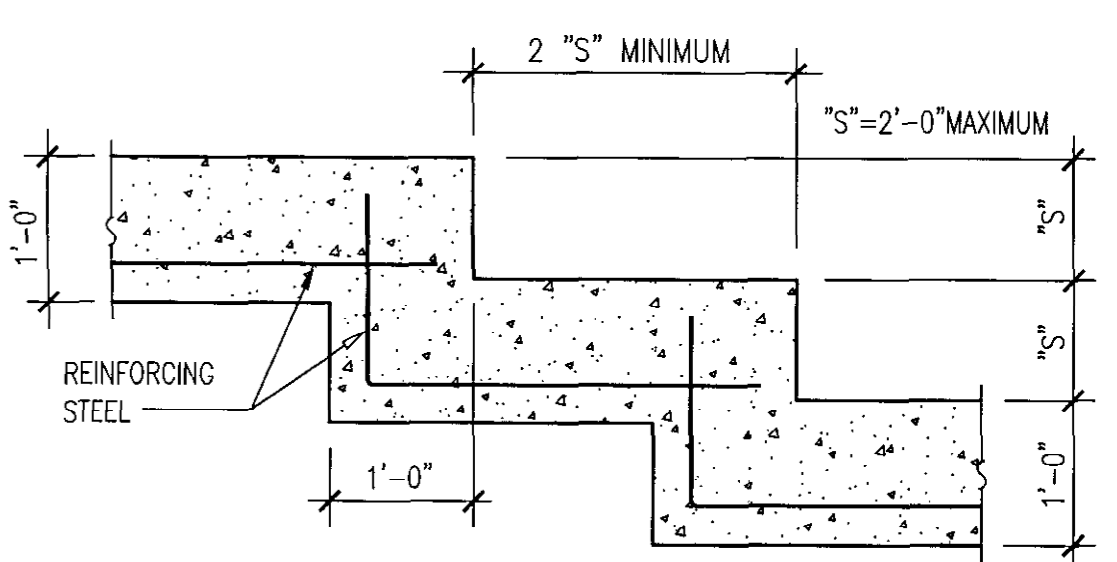
TYPICAL STUD BRIDGING DETAIL



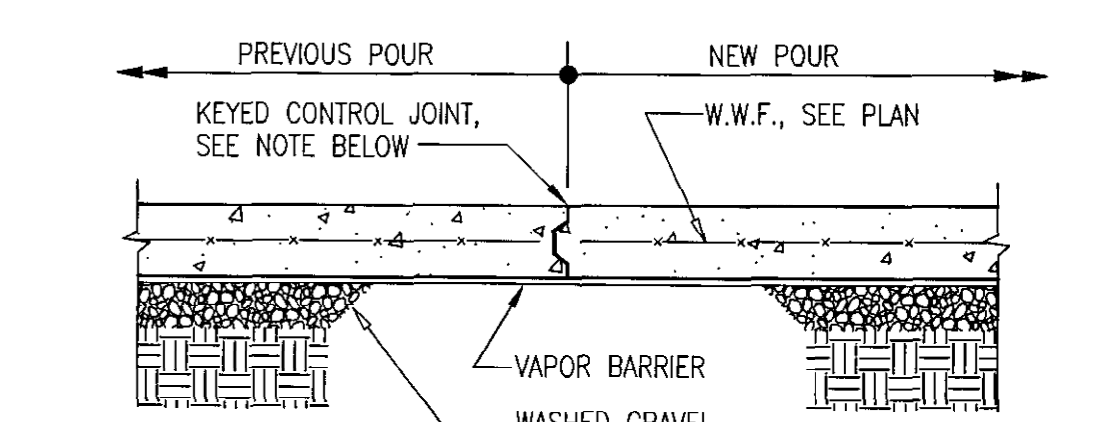
SECTION B
SCALE: 3/4"=1'-0"
S301



TYPICAL COLUMN, PIER AND FOOTING DETAIL
(NOT FOR PRE ENGINEERED BUILDING COLUMNS)



TYPICAL STEP FOOTING DETAIL



NOTE: BETWEEN CONSTRUCTION JOINTS, THE CONTRACTOR SHALL PROVIDE SAW CUT CONTROL JOINTS THAT SHALL BE SPACED AS SHOWN ON PLANS AND/OR NOTED IN GENERAL NOTES. SAW CUT JOINTS SHALL BE 1/4 OF THE SLAB THICKNESS IN DEPTH AND SHALL BE CUT AS SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE AND BEFORE RANDOM SHRINKAGE CRACKS CAN FORM IN THE CONCRETE SLAB.

TYPICAL CONSTRUCTION JOINT IN SLAB ON GRADE

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DES:	NG	REVIEW SET	8/4/05
DRN:	HW	REVIEW SET	9/1/05
CHK:	RC	100% CD REVIEW SET	1/17/06
DATE:	8/2/05	100% CD OWNER REVIEW COMMENTS	11/20/06
BY:	No.	BID SET	5/30/07
		100% - FINAL BID SET	1/14/08
		REVISION	DATE

GENERAL NOTES, SECTIONS AND TYPICAL DETAILS
MEADOWBROOK PARK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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SCALE AS NOTED
SHEET S
301

OUTLET/INLET SCHEDULE

OUTLET (SUPPLY)						INLET (RETURN, EXHAUST AND OUTSIDE AIR INTAKE)									
TYPE	NECK SIZE	FACE SIZE	CFM RANGE	MAX. S.P. IN. H ₂ O	MAX. NC LEVEL	BASIS OF DESIGN	REMARKS	TYPE	NECK SIZE	FACE SIZE	CFM RANGE	MAX. S.P. IN. H ₂ O	MAX. NC LEVEL	BASIS OF DESIGN	REMARKS
A	20x10	20x10	430-875	0.06	26	TITUS DL		1	8x6	8x6	50-130	0.051	22	TITUS 350FL	
B	12"ø	24x24	330-470	0.041	23	TITUS TMS-AA		2	12x6	12x6	131-205	0.051	24	TITUS 350FL	
C	18x6	18x6	210-315	0.077	15	TITUS 300FL		3	18x6	18x6	206-315	0.051	25	TITUS 350FL	
D	8x6	8x6	50-130	0.077	11	TITUS 300FL		4	15x15	24x24	501-800	0.09	22	TITUS PAR	
E	12x6	12x6	131-205	0.077	13	TITUS 300FL									

NOTES
 1 NC VALUES REPRESENT NOISE CRITERIA WHICH WILL NOT BE EXCEEDED BY THE SOUND PRESSURE IN ANY OF THE OCTAVE BANDS, AND IS BASED ON A ROOM ABSORPTION OF 10 db.
 2 ACCEPTABLE MANUFACTURERS: METALAIRE; KRUEGER

ELECTRIC WALL & UNIT HEATER SCHEDULE

No.	AREA (S) SERVED	TYPE	KW	CFM	FLA AMPS	ELECT. CONN.	THERMOSTAT	MANUFACTURER/MODEL NO.	REMARKS
EWH-1,2	TOILET RMS. #113,109	VERTICAL SURFACE MOUNTED	2.0	100	9.6	208/1/60	BUILT - IN	BERKO: SERIES FRA FAN FORCED MODEL: FRASM-2020	
ECH-1	VESTIBULE #101	RECESSED WALL MOUNTED	4.0	200	20	208/1/60	BUILT - IN	BERKO, MODEL: CUH 3	
EUH-1	MECH. ROOM #117	HORIZ. DISCHARGE WALL MOUNTED	2.2	350	11.0	208/1/60	BUILT - IN	BERKO, MODEL: HUHA-324	

NOTE: ① PROVIDE ALL WALL & UNIT HEATERS WITH BUILT-IN DISCONNECT SWITCH.

PACKAGE TERMINAL UNIT SCHEDULE (THRU-THE-WALL)

No.	CFM	O.A. CFM	COOLING CAPACITY (BTUH)	EER	HEATING REV. CYC. (BTUH)	HEATING AUX. ELECT. (BTUH)	COP	FLA AMPS	ELECT. CONN.	MOCP	MANUFACTURER/MODEL NO.	REMARKS
AC-1	250	50	11900	10.1	10700	13600	3.0	20.0	208/1/60	30	CARRIER: 52CQ-512	①

NOTE: ① ALL UNITS SHALL BE PROVIDED WITH SUB-BASE WITH RECEPTACLE, STANDARD INSULATED WALL SLEEVE AND ALUMINUM ARCHITECTURAL GRILLE

SPLIT SYSTEM A/C UNIT-GAS FURNACE

GAS FURNACE, GF-1: (BASIS OF DESIGN: TRANE TUX040) CONDENSING, DIRECT VENT, L.P. GAS, HEATING CAP. 40 MBH INPUT, 38 MBH OUTPUT; 800 CFM @ 0.3" ESP, BLOWER FAN: DIRECT DRIVE, 1/5 HP, 115/1/60 COIL TYPE DX-1: (BASIS OF DESIGN: TRANE TXCO24C4 - HORIZONTAL) NOMINAL: 2.0 TONS, 800 CFM, OUTSIDE AIR: 180 CFM, LOCATED IN THE OUTLET FURNACE AND SHALL MATCH CONDENSING UNIT CAPACITY	CONDENSING UNIT, CU-1: (BASIS OF DESIGN: TRANE TT024C) AIR COOLED, NOMINAL 2.0 TONS, 95°F CONDENSER EAT, 20.5 MBH TOTAL COOLING CAPACITY, 16.5 MBH SENS. CAPACITY. COMPRESSOR: (1)-208/1/60, RLA: 8.4 AMP. OUTDOOR FAN: (1) 1/8 HP, 1075 RPM, FLA: 0.9 AMP. MCA: 11 AMPS., MOCP: 15 AMPS.
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FAN SCHEDULE

FAN No. (F-#)	DATA					ELECT. (60HZ) VOLTS/PHASE	FAN TYPE	ACCESSORIES	CONTROLS	BASIS OF DESIGN
	CFM	S.P. H ₂ O	RPM	MOTOR HP (W)	SONES MAX.					
1	1400	0.4	1550	1/2	10.7	120/1	EF,IL,DD	SI,BIDS,SCS	TIME CLOCK	PENN CENTREX MDL. SX115RC
2	900	0.375	1300	1/3	6.7	120/1	SF,IL,DD	SI,BIDS,SCS	TIME CLOCK	PENN CENTREX MDL. SX115SC

FAN SCHEDULE ABBREVIATIONS

DD DIRECT DRIVE	BIDS BUILT-IN DISCONNECT SWITCH
EF EXHAUST FAN	(W) WATTS
SCS SPEED CONTROL SWITCH	S.P. STATIC PRESSURE
RPM REVOLUTIONS PER MINUTE	IL IN-LINE
SI SPRING ISOLATORS	SF SUPPLY FAN

INDOOR L.P. GAS FIRED DUCT FURNACE SCHEDULE

DH No.	CFM	EAT °F	LAT °F	S.P. H ₂ O	L.P. GAS INPUT	HTG. DATA (MBH) OUTPUT	EFF %	CONTROL VOLT/AMP	WEIGHT LBS	GAS CONN. INCH	EXH. SIZE	INT. SIZE	BASIS OF DESIGN REZNOR	REMARKS
1-8	4000	62.2	103.5	0.35	200	160	80	120/.2	290	1/2	6"	6"	HSC200	
9	900	10	92.3	0.14	100	80	80	120/.2	170	1/2	6"	6"	SC100	

FAN COIL UNIT SCHEDULE

UNIT DESIGN	FAN DATA - 208V/3PH				DX COIL DATA					BASIS OF DESIGN	UNIT DESIGN	CAP MBH	AMB. °FDB	COMPRESSOR		COND. FAN		MCA	MOCP	BASIS OF DESIGN	REMARKS		
	CFM	O.A. CFM	E.S.P. H ₂ O	RPM	MTR HP	SENS. MBH	TOTAL MBH	*FDB	*EAT					LAT °FDB	QTY	FLA EA	QTY					FLA EA	
A	4000	750	1	959	3	103.0	144.0	79.6	67.7	55.8	55.9	MAGIC-AIRE MDL. 120HBAX	1	144.0	95	2	20.7	2	3.7	55.6	3.7	CARRIER 38ARD014	

CONDENSING UNIT SCHEDULE - 208V/3PH

DESIGN INTENT

THE SPORT CENTER IS DESIGNED TO BE HEATED, VENTILATED AND AIR CONDITIONED.

CONDITIONED AIR IS BEING PROVIDED FOR THE COURTS VIA CEILING HUNG FAN COIL UNITS (DX COOLING COIL) AND LP GAS FIRED DUCT FURNACES. THE CONDENSING UNITS ARE MOUNTED ON GRADE.

CONDITIONED AIR FOR THE COMMUNITY IS BEING PROVIDED ROOM VIA A CEILING MOUNTED GAS FIRED FURNACE WITH DX COOLING COIL. THE CONDENSING UNIT IS MOUNTED ON GRADE. CONDITIONED AIR FOR THE OFFICE AND CONCESSION AREAS IS BEING PROVIDED VIA THRU THE WALL HEAT PUMP UNITS. ALL THE REMAINING SPACES ARE HEATED AND VENTILATED. VENTILATION MEETS THE REQUIREMENT OF THE IMC 2006.

THE OUTDOOR AIR VENTILATION IS BASED ON THE FOLLOWING:

PLAYING AREAS	20CFM/P
SPECTATOR AREAS	15CFM/P
OFFICES	20CRM/P
COMMUNITY ROOM	15CFM/P
CONCESSION	20CFM/P

THE DESIGN COMPLIES WITH IBC 2006, IMC 2006, AND NFPA CODES.

DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL AND SHALL BE PAINTED IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATION PAINTING SECTION.

INLET AND OUTLET DEVICES SHALL BE OF ALUMINUM CONSTRUCTION. OUTLET DEVICES IN HIGH CEILINGS SHALL HAVE A TERMINAL VELOCITY OF 50FPM AT 30 FEET THROW MINIMUM.

REFRIGERANT LINES SHALL BE COPPER AND CONDENSATE DRAIN LINES SHALL BE PVC PIPING.

DESIGN CRITERIA ARE AS FOLLOWS:

OUTDOOR:	SUMMER 95°FDB/78°FWB, WINTER 10°F
INDOOR:	SUMMER 78°FDB/50%RH, WINTER 70°F

CALCULATED LOADS: (INCLUDES VENTILATION AIR)

WINTER:	1058 MBH	INSTALLED	1440 MBH	OUTPUT
SUMMER:	90 TONS			

THE FACILITY IS EQUIPPED WITH 9 LARGE SIZE DOORS TO THE OUTDOOR WHICH CAN BE OPENED DURING MILD WEATHER. WHENEVER THE DOORS ARE KEPT OPENED THE AC SYSTEM IS DEENERGIZED AS MEANS OF ENERGY SAVINGS. THIS OPERATION TAKES PLACE OF THE CODE REQUIREMENT OF ECONOMIZER CYCLE.

MECHANICAL DRAWING LIST

M01	MECHANICAL COVER SHEET
M02	FLOOR PLAN - DUCTWORK LAYOUT
M03	FLOOR PLAN - PIPING LAYOUT
M04	DETAILS
M05	DETAILS

ABBREVIATIONS

ARCH	ARCHITECT
AC	AIR CONDITIONING
AMB	AMBIENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CU	CONDENSING UNIT
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION, CONNECTED, CONNECT
COMB.	COMBUSTION
C.D.	CEILING DIFFUSER
CAP	CAPACITY
DH	DUCT HEATER
DX	DIRECT EXPANSION
DWG	DRAWING
E.S.P.	EXTERNAL STATIC PRESSURE
ELECT.	ELECTRICAL
EXH	EXHAUST
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EA.	EACH
FDB	FAHRENHEIT DRY BULB
FWB	FAHRENHEIT WET BULB
F	FAN OR FAHRENHEIT
FT	FEET
FPM	FEET PER MINUTE
FLA	FULL LOAD AMPS
FCU	FAN COIL UNIT
HZ	HERTZ OR CYCLE
HTG	HEATING
H2O	WATER
HP	HORSE POWER
IN.	INCHES
IMC	INTERNATIONAL MECHANICAL CODE
IBC	INTERNATIONAL BUILDING CODE
INT.	INTAKE
INTERM.	INTERMITTANT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
L.P.	LIQUID PROPANE
MBH	THOUSAND BRITISH THERMAL UNIT PER HOUR
MAX	MAXIMUM
MIN	MINIMUM
No	NUMBER
NC	NORMALLY CLOSED, NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
O.A.	OUTSIDE AIR
OBDD	OPPOSED BLADE DAMPER
P	PEOPLE OR PERSON
QTY	QUANTITY
R.A.	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
S.P.	STATIC PRESSURE
W/	WITH
(W)	WATTS

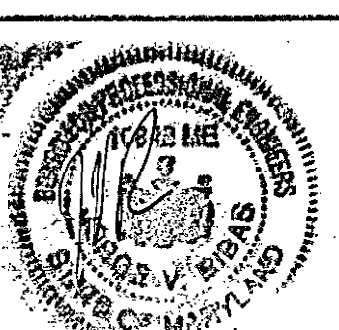
SYMBOLS

A 100	OUTLET TYPE "A", 100QCFM
1 100	INLET TYPE "1", 100QCFM
①	DRAWING NOTES DESIGNATION
⊙	DETAIL 1 ON DRAWING M-02
⊙	SPACE SENSOR THERMOSTAT
10x8	RECTANGULAR DUCTWORK
8ø	ROUND DUCTWORK
~	FLEXIBLE DUCTWORK MAXIMUM 6 FT. LONG
⊠	MOTORIZED AIR DAMPER
⊠	FLEXIBLE DUCT CONNECTION
⊠	ELBOW WITH TURNING VANES
⊠	MANUAL VOLUME DAMPER
⊠	SUPPLY AIR DUCT TURNING UP
⊠	SUPPLY AIR DUCT TURNING DOWN
⊠	RETURN AIR DUCT FROM ABOVE
⊠	RETURN AIR DUCT FROM BELOW
⊠	SUPPLY AIR CEILING DIFFUSER. SEE INLET/OUTLET SCHEDULE.
⊠	CEILING RETURN AIR GRILLE. SEE INLET/OUTLET SCHEDULE.
⊠	LOW NOISE OPPOSED BLADE VOLUME DAMPER.
⊠	BACK DRAFT DAMPER
⊠	CONDENSATE DRAIN
⊠	SMOKE DAMPER

PLOT DATE: 11/27/2006

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
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		100% SUBMITTAL	1/17/06
DRN:		100% - FINAL BID SET	1-14-08
CHK:			
DATE: 7/14/05	BY	No.	REVISION
			DATE

MULTI-SPORTS BUILDING MECHANICAL COVER SHT.
MEADOWBROOK SPORTS CENTER
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

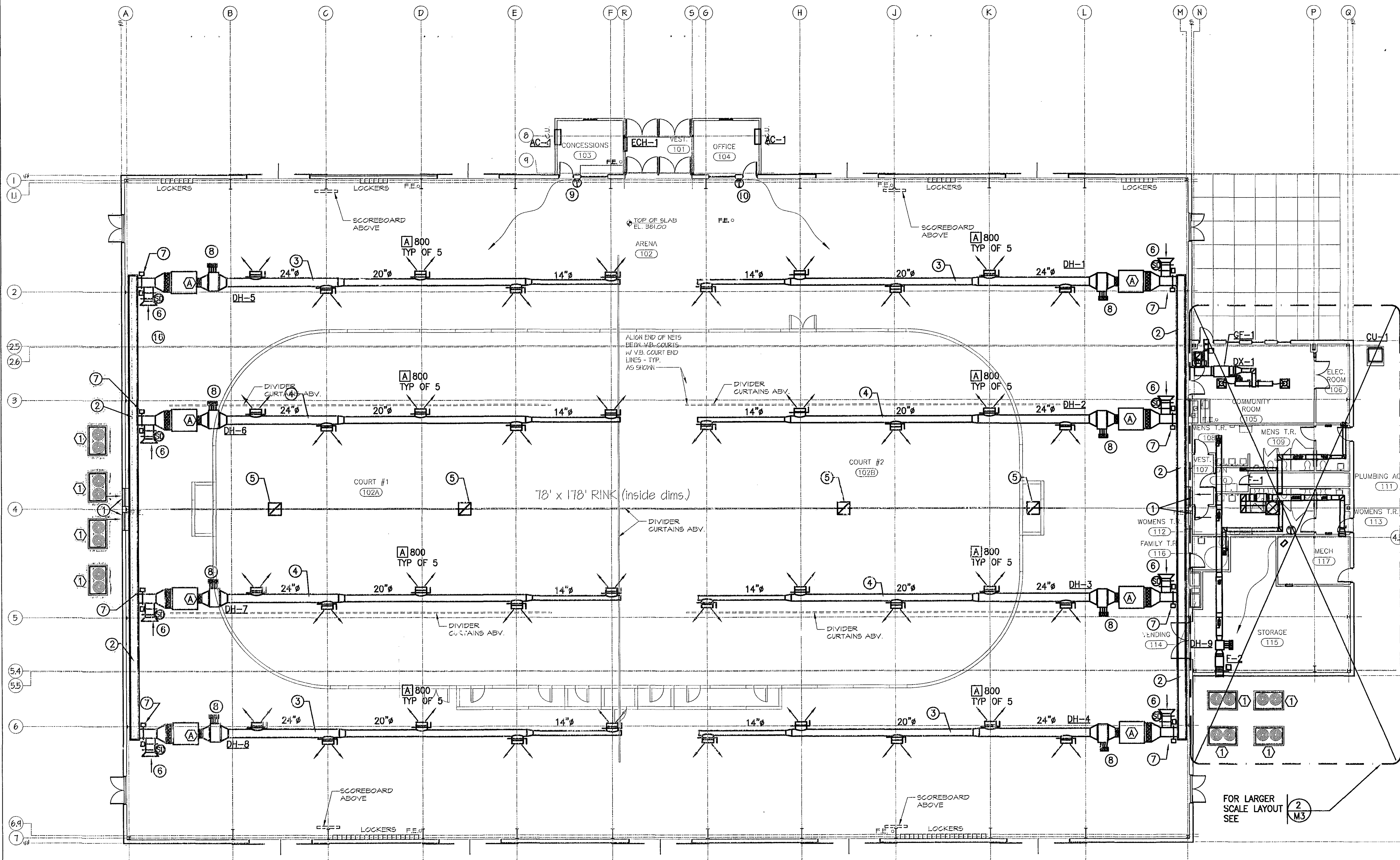
GVA
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MRP04-075 SCALE AS SHOWN SHEET **MOI**

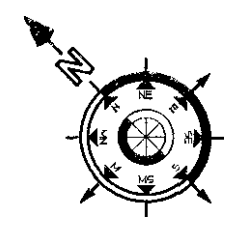
DRAWING NOTES

- ① 36x27 PORTION O.A. INTAKE LOUVER HIGH AND CONNECTED TO O.A. PLENUM ALONG WALL BEHIND LOUVER. UNUSED PORTION OF LOUVERS TO BE BLANK OFF. SEE ARCH. DWGS. O.A. PLENUM TO BE INSULATED.
- ② 20x36 PITCHED O.A. INTAKE PLENUM ALONG WALL. PLENUM PITCH SHALL MATCH ROOF PITCH'S ANGLE.
- ③ S.A. DUCT MOUNTED APPROXIMATELY AT 22'-4" ABOVE FLOOR.
- ④ S.A. DUCT MOUNTED APPROXIMATELY AT 34' FEET ABOVE FLOOR.
- ⑤ 33x33x12 RELIEF AIR DUCT CONNECTED TO ARCH. VENT AND OPEN TO SPACE WITH BAROMETRIC RELIEF DAMPER. SEE ARCH. DWGS FOR VENT DETAIL.
- ⑥ 24x12 R.A. DUCT WITH TWO POSITION MOTORIZED DAMPER.
- ⑦ 20x20 TWO POSITION O.A. MOTORIZED DAMPER.
- ⑧ VERTICAL VENT TERMINAL/COMBUSTION AIR-INLET ASSEMBLY. SEE DETAIL 7, ON M-05.
- ⑨ HEATING AND COOLING THERMOSTAT TO CONTROL AC AND HEATING SYSTEM SERVING COURT #1 (FOUR SYSTEMS)
- ⑩ HEATING AND COOLING THERMOSTAT TO CONTROL AC AND HEATING SYSTEM SERVING COURT #2 (FOUR SYSTEMS)



1 FLOOR PLAN
M2 SCALE: 3/32"=1'-0"

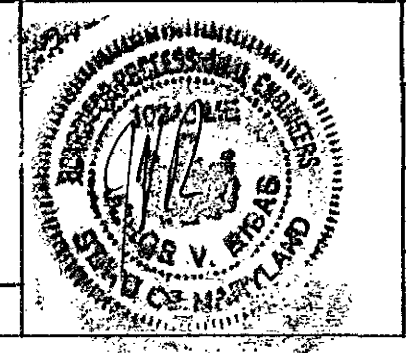
FOR PIPING LAYOUT SEE DWG. M-03



PLOT DATE: 11/27/2006

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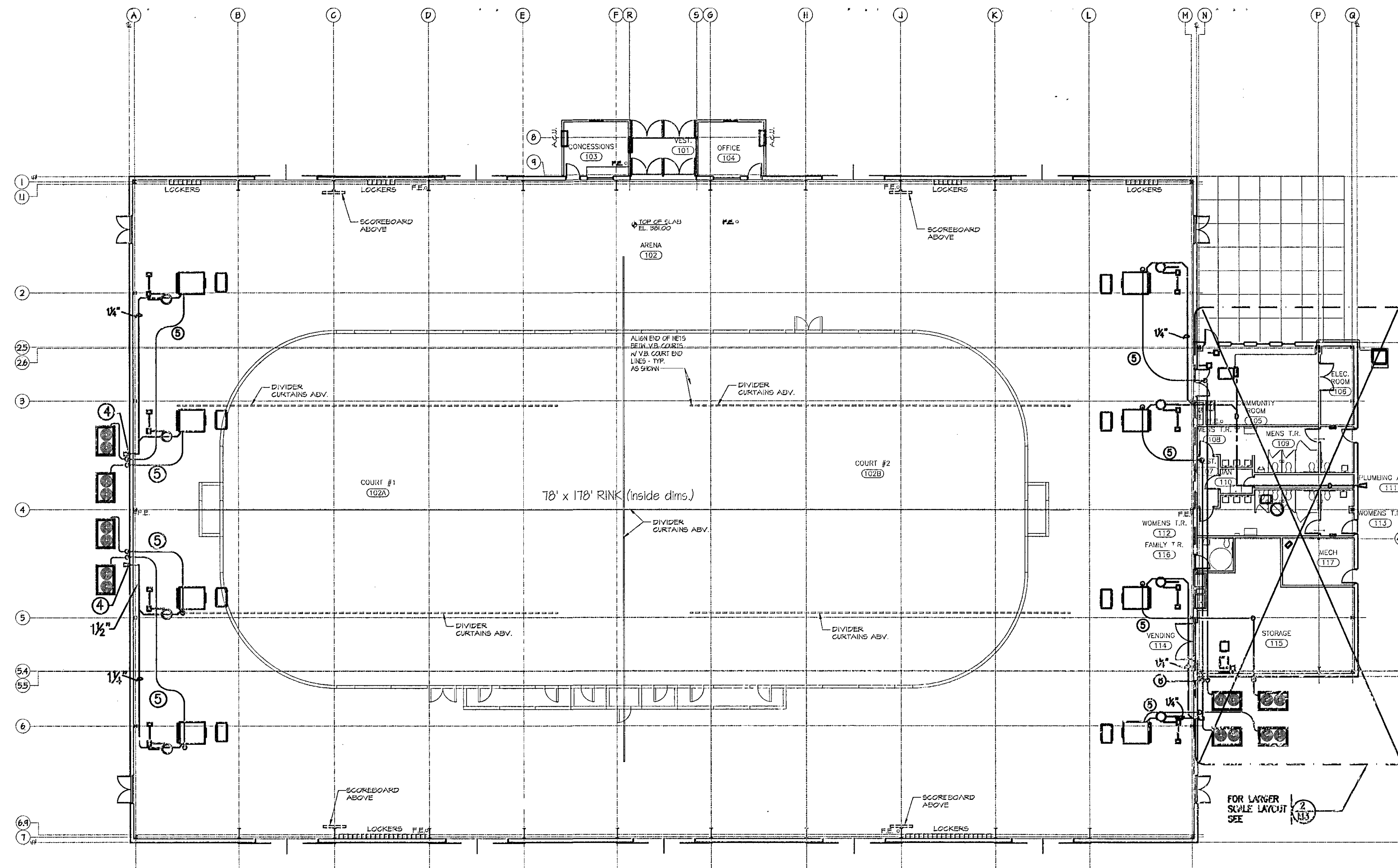
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DATE: 7/14/05	BY	No.	REVISION

MULTI-SPORTS BUILDING
FLR. PLAN - DUCTWORK LAYOUT
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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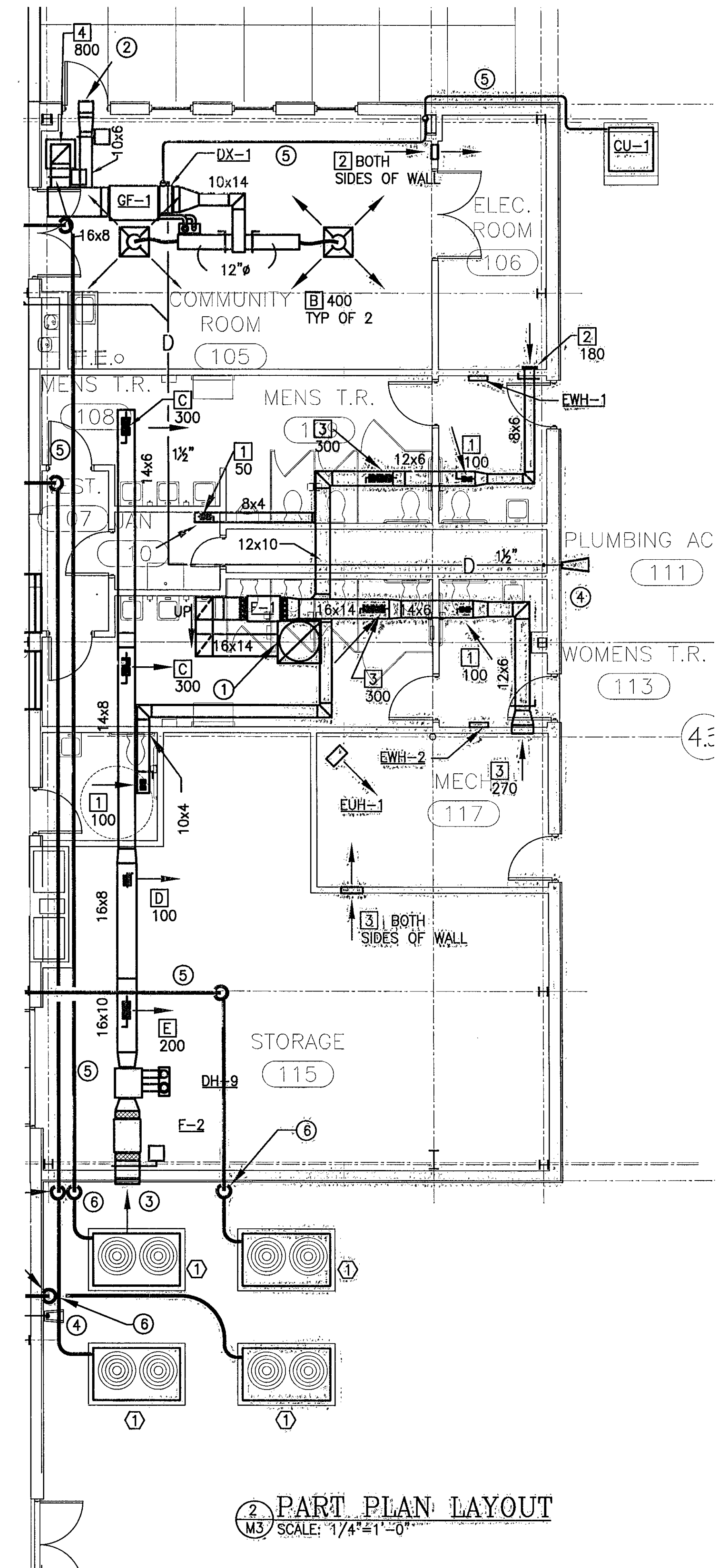
MRP04-075 SCALE 3/32"=1'-0" SHEET MO2



2 FLOOR PLAN - PIPING LAYOUT
 M3 SCALE: 1/16"=1'-0"

DRAWING NOTES

- ① 36x36x24 E.A. PLENUM BELOW ARCH. VENT. CONNECT 16x14 EXH. DUCT FROM F-1 TO PLENUM. SEE ARCH. DWGS FOR VENT DETAIL.
- ② 12x12 O.A. INTAKE LOUVER HIGH. CONNECT TO GF-1 INTAKE PLENUM W/MOTORIZED DAMPER & BIRD SCREEN. INTERLOCK W/GF-1. (SET @ 180CFM O.A.E).
- ③ 20x28 O.A. INTAKE LOUVER HIGH. CONNECT TO F-2 W/MOTORIZED DAMPER AND BIRD SCREEN. INTERLOCK DAMPER WITH F-16.
- ④ SPILL 1/2" CONDENSATE DRAINS ON SPLASH BLOCK.
- ⑤ REFRIGERANT LINES RUN AND SIZES PER MANUFACTURER'S RECOMMENDATIONS. SIZES MAY VARY FOR UNITS WITH LONGEST RUN OF REF. LINES.
- ⑥ SEE "EXTERIOR WALL REFRIGERANT LINE INSTALLATION DETAIL" DTL 5 ON M-05.



2 PART PLAN LAYOUT
 M3 SCALE: 1/4"=1'-0"

PLOT DATE: 11/27/2006

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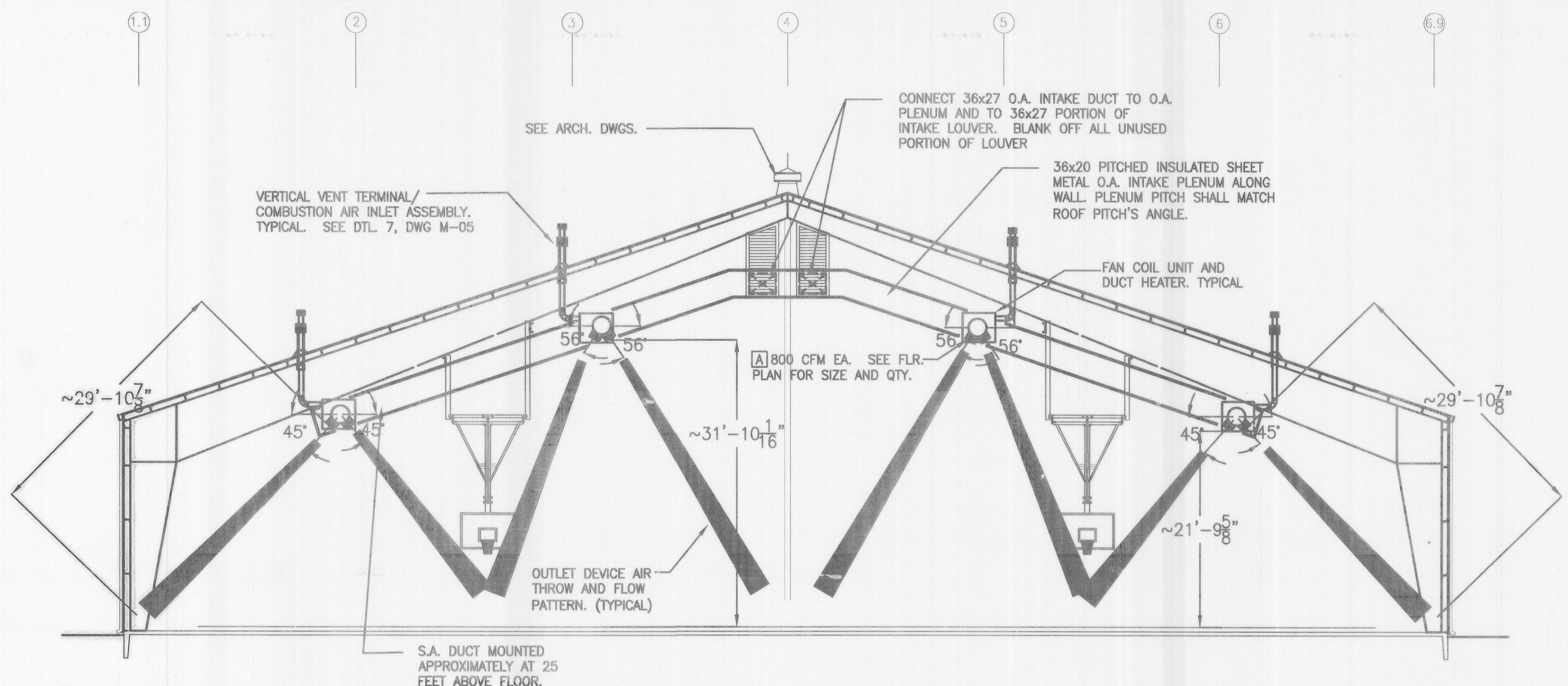
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CHK:		100% - FINAL BID SET	
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			DATE

**MULTI-SPORTS BUILDING
 FLR. PLAN - PIPING LAYOUT
 MEADOWBROOK
 SPORTS CENTER**
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

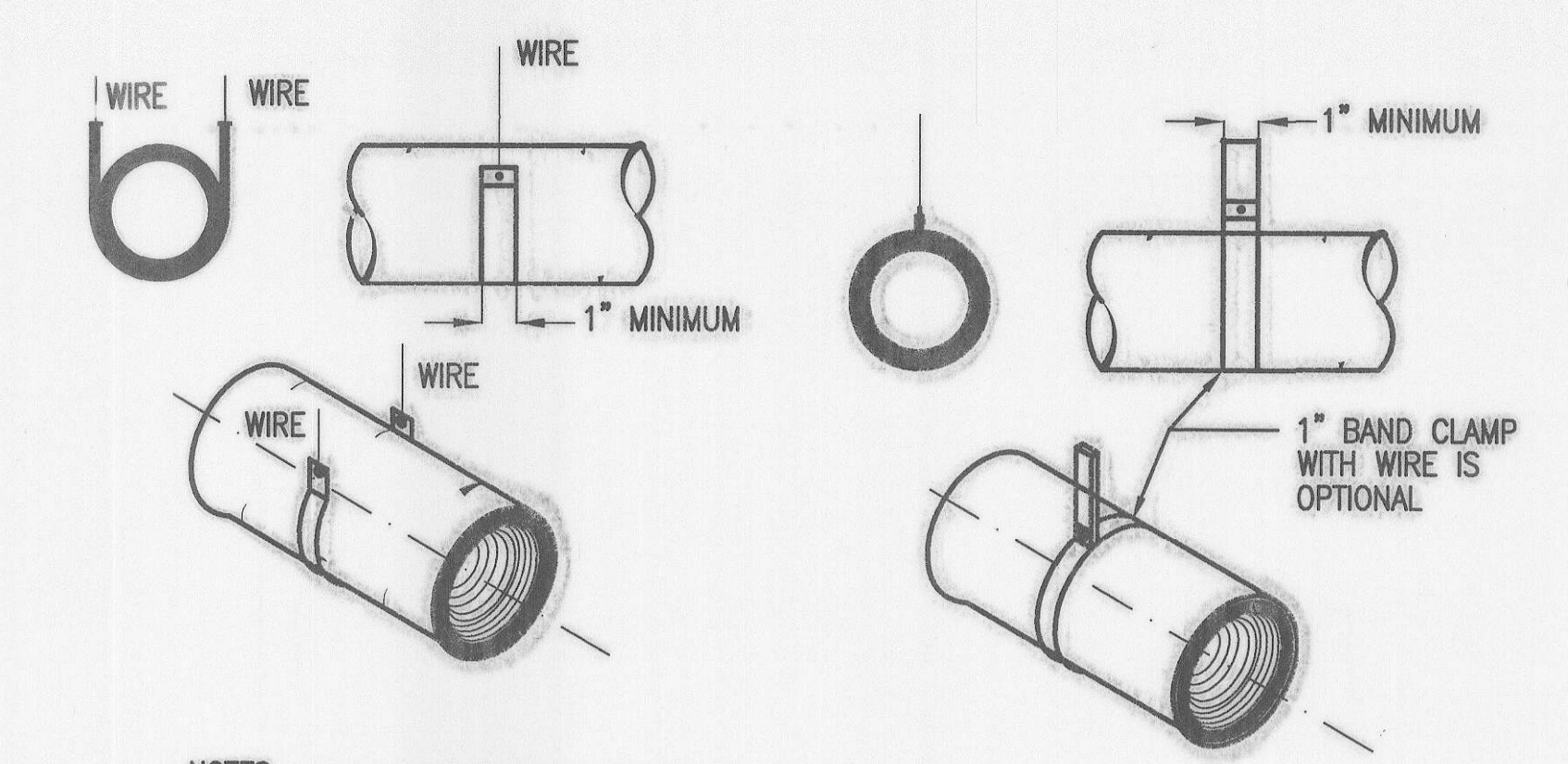
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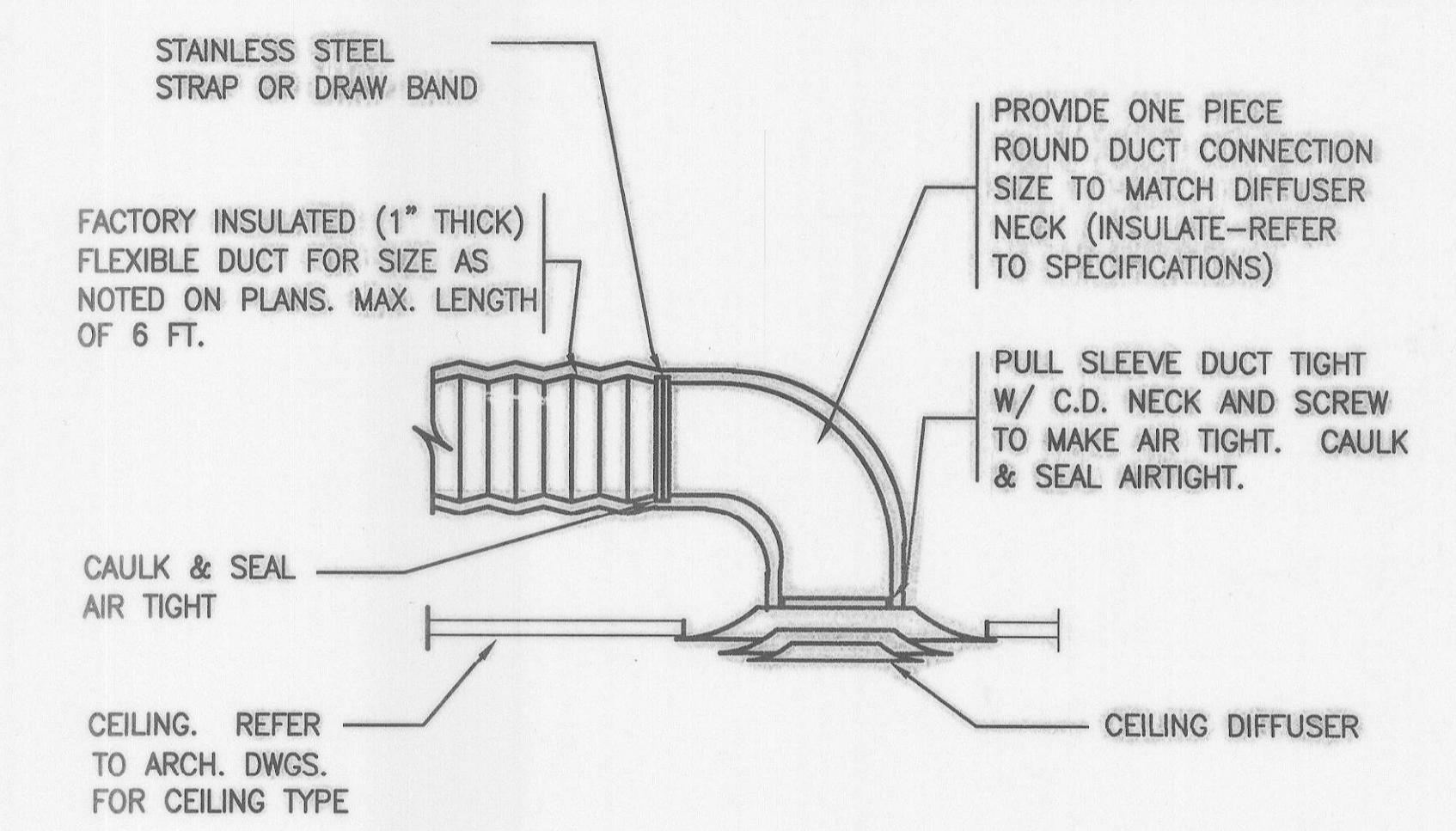
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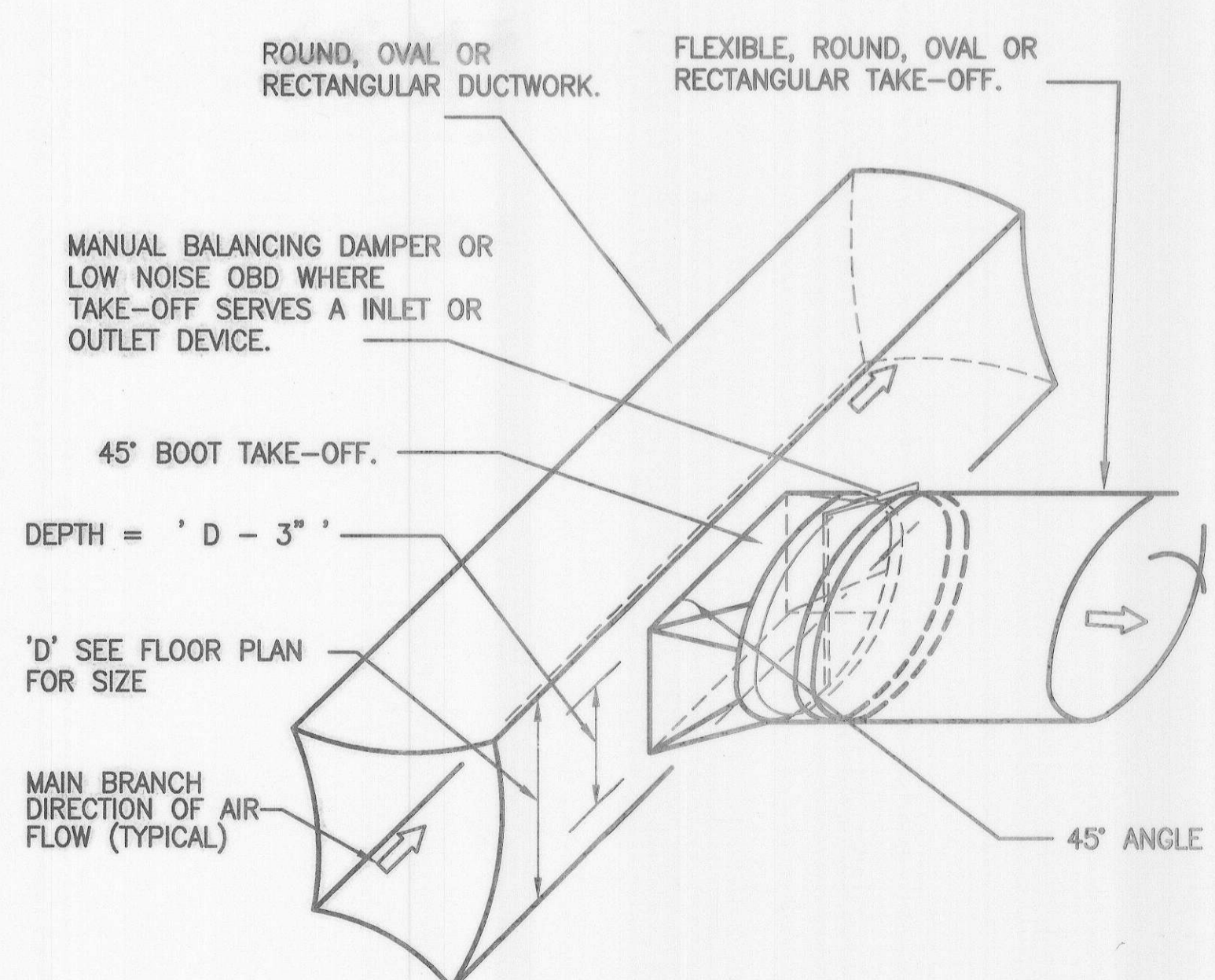
1 BUILDING SECTION
SCALE: 1/8"=1'-0"



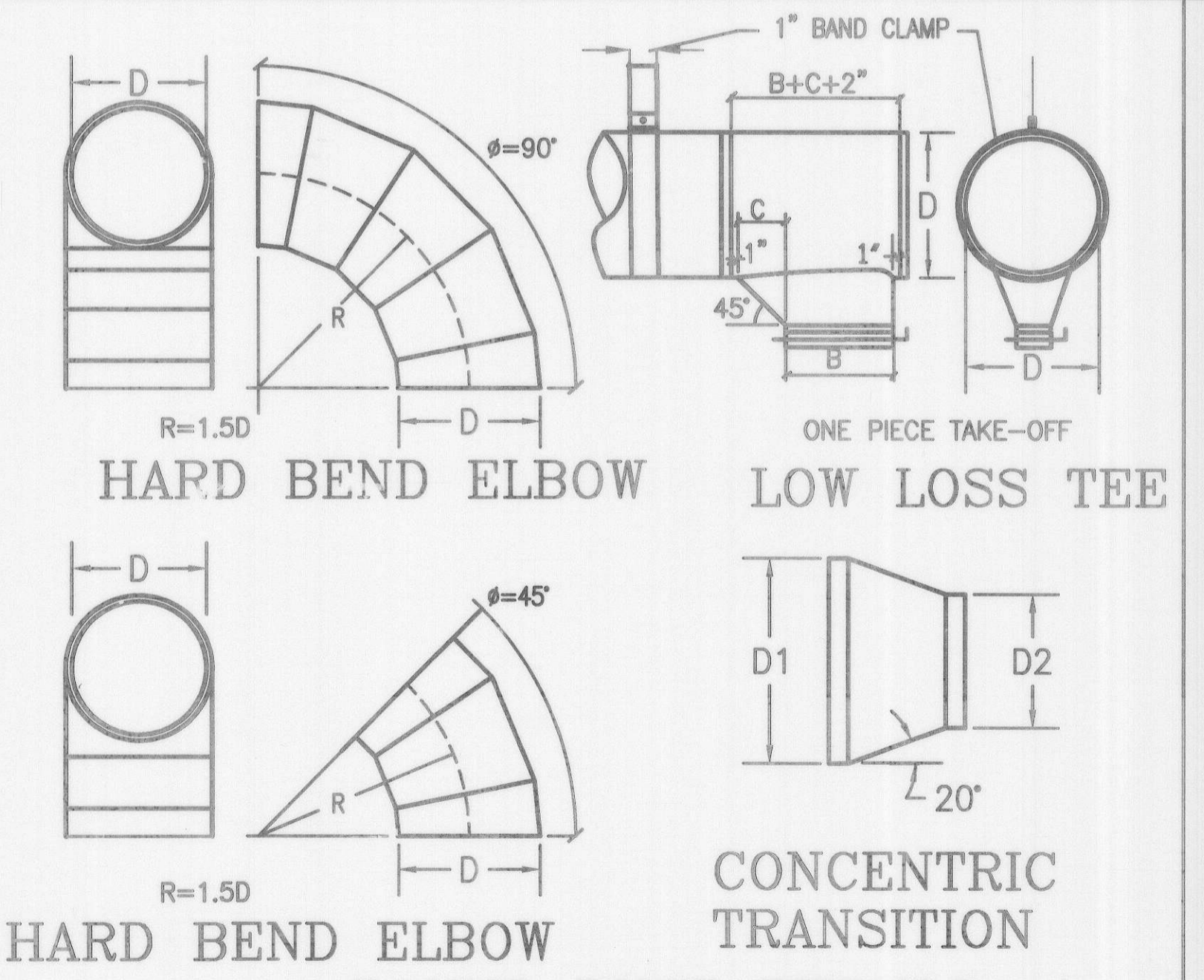
2 FLEXIBLE DUCT SUPPORT
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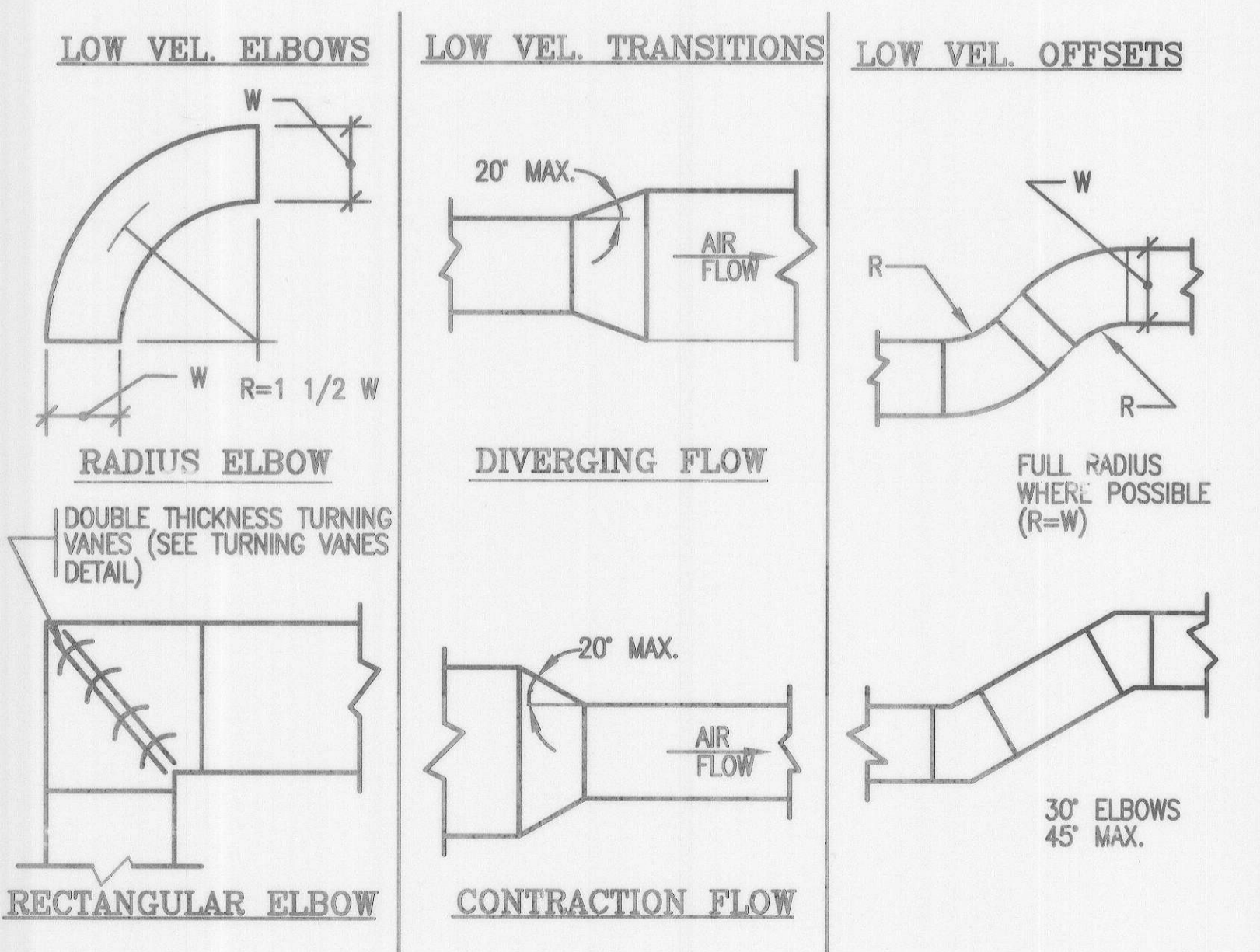
3 LOUVERED CEILING DIFFUSER DETAIL
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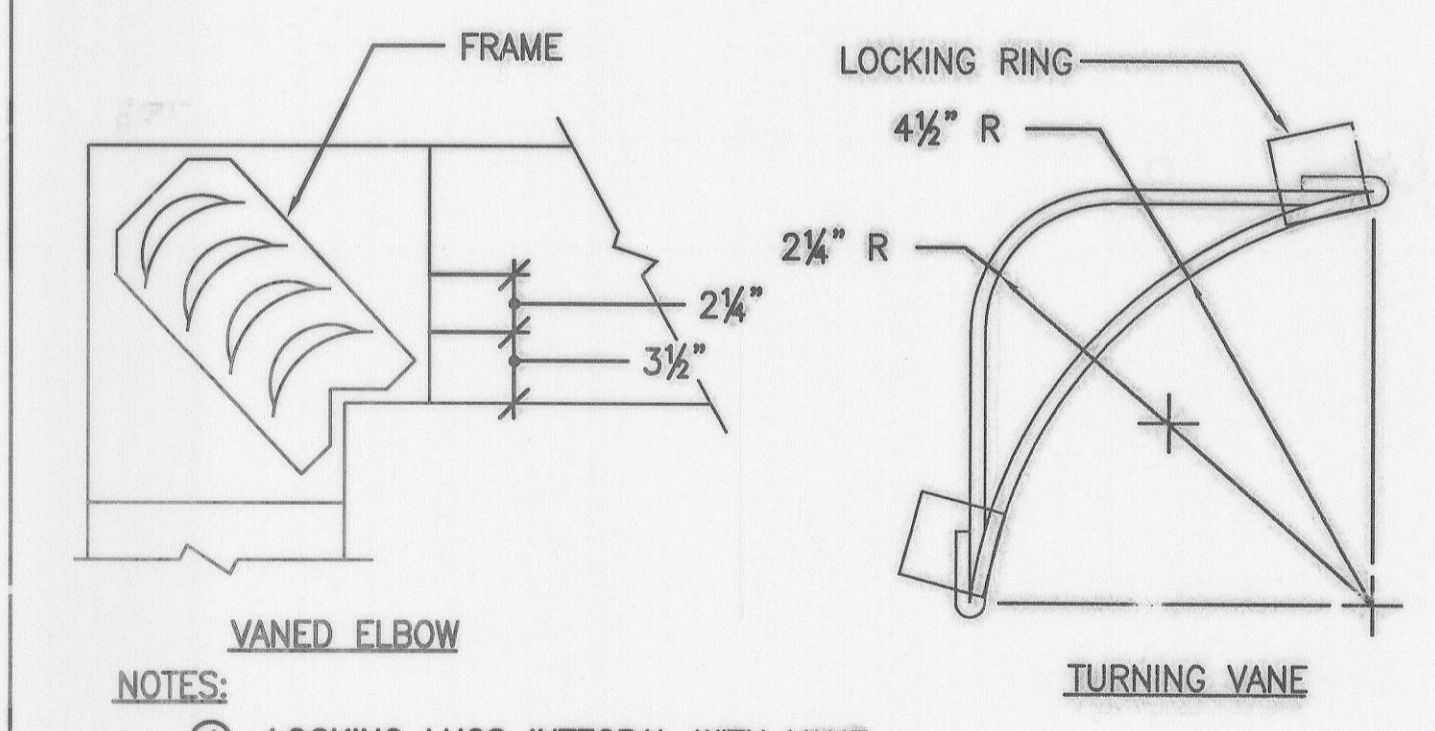
4 45° BOOT TAKE-OFF DETAIL
NOT TO SCALE



5 ROUND DUCT DETAILS
NOT TO SCALE



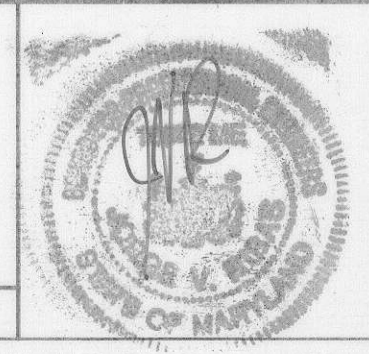
6 LOW VELOCITY TRANSITIONS, OFFSETS AND ELBOWS
NOT TO SCALE



7 DBL. THICKNESS TURNING VANES DETAIL
NOT TO SCALE

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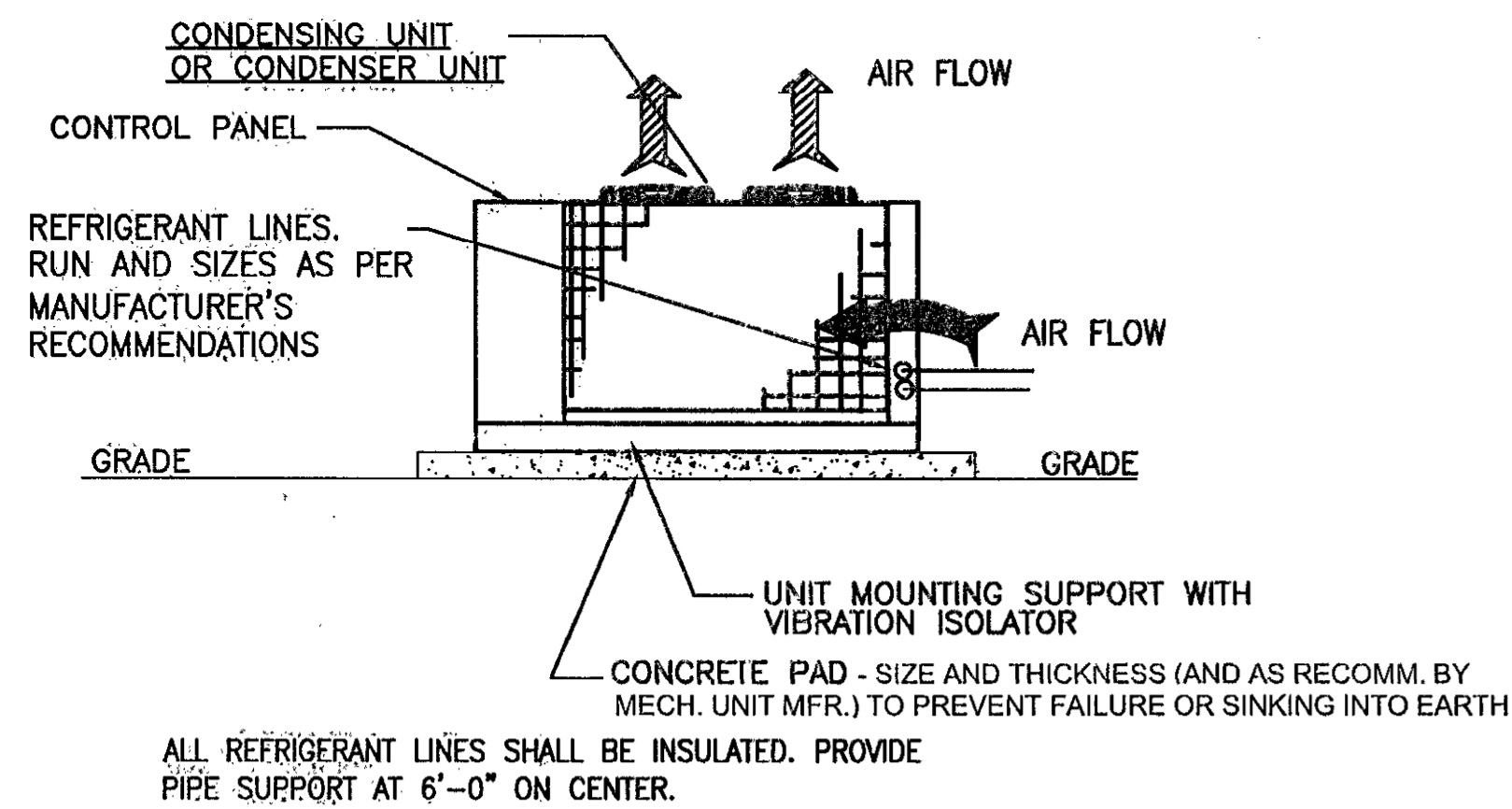
MULTI-SPORTS BUILDING DETAILS
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS
TITLE

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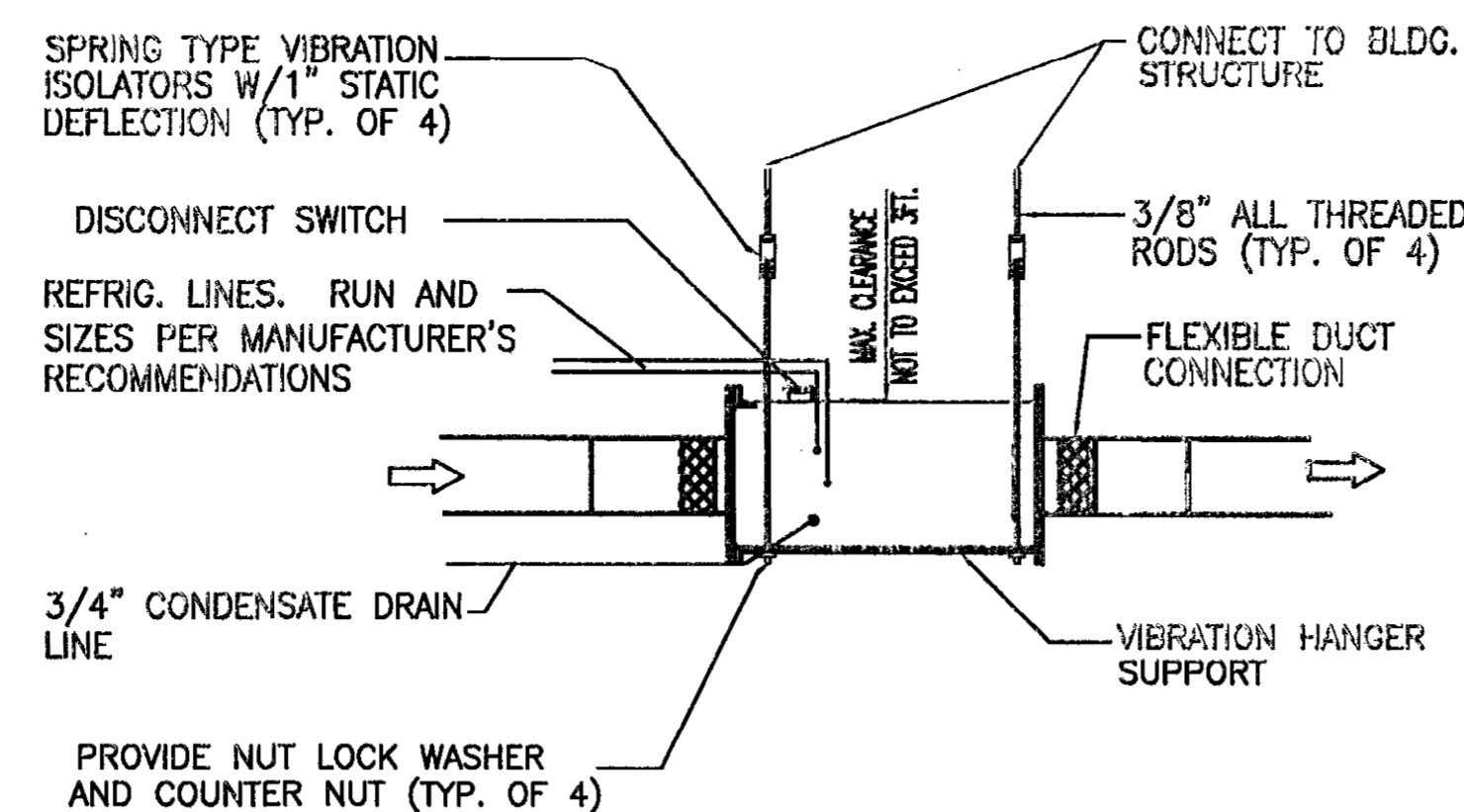
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MRF04-075 SCALE
AS SHOWN SHEET
M04

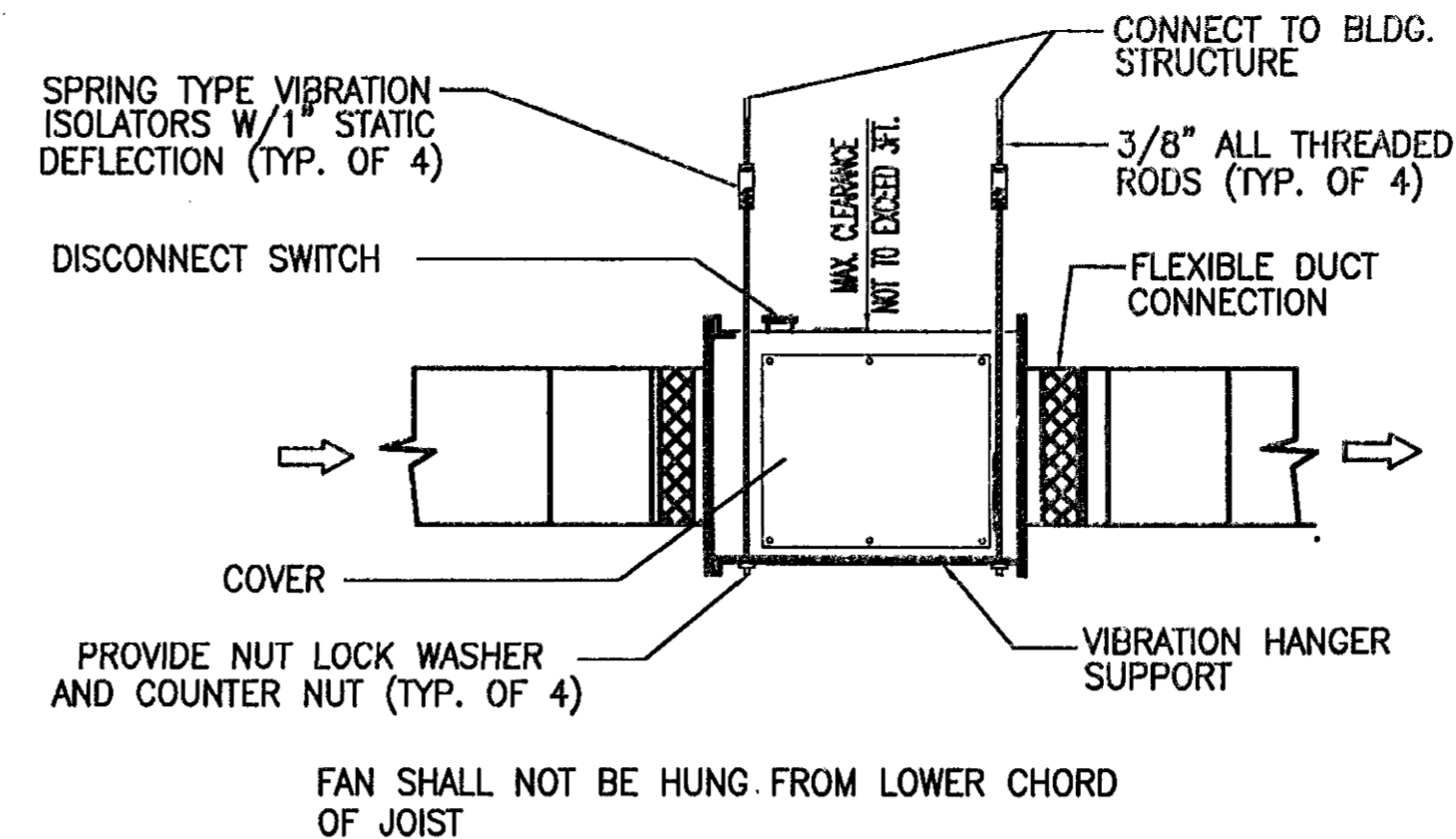
PLOT DATE: 11/27/2006



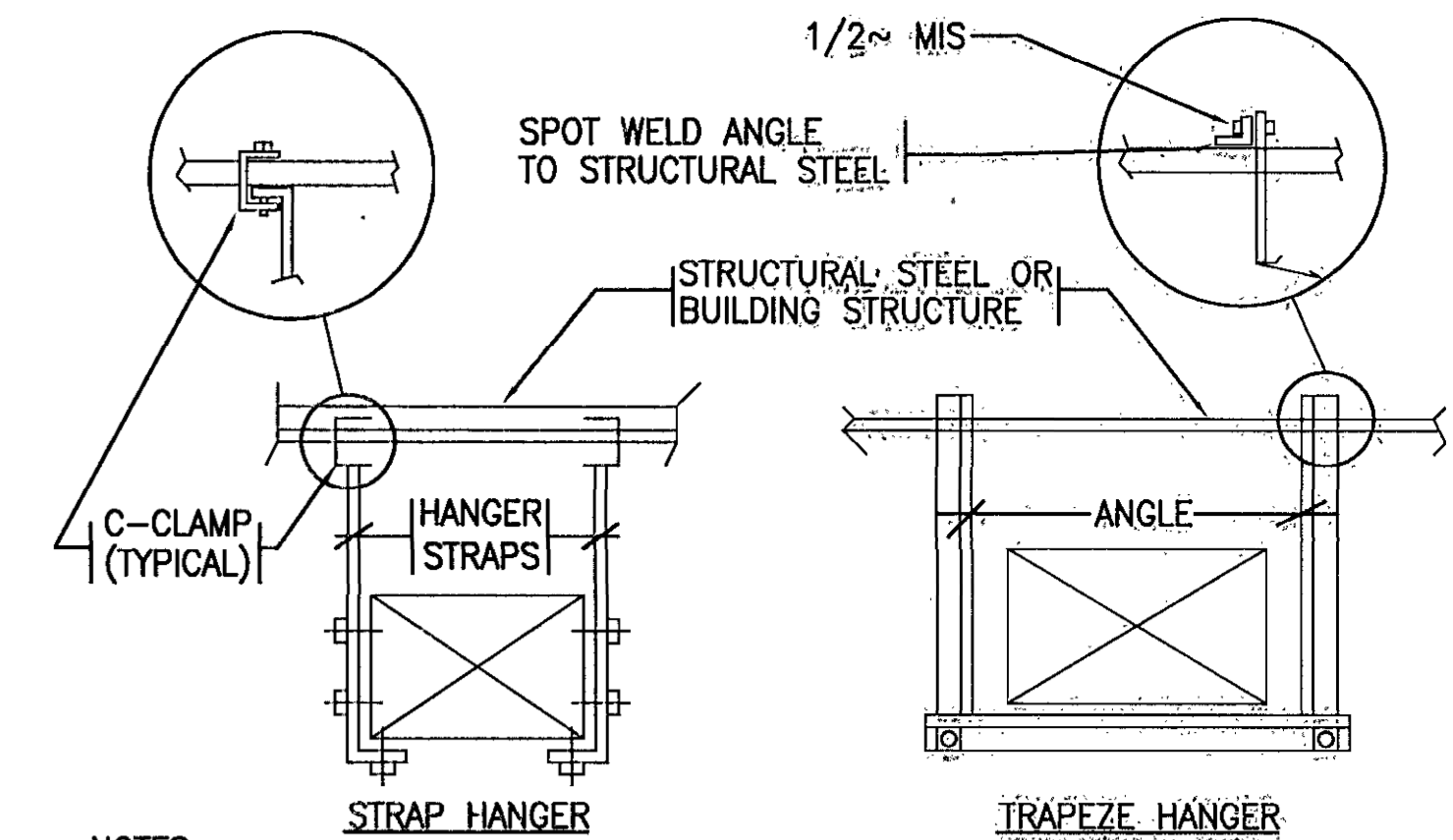
1 COND. UNIT MOUNTING ARRANGEMENT
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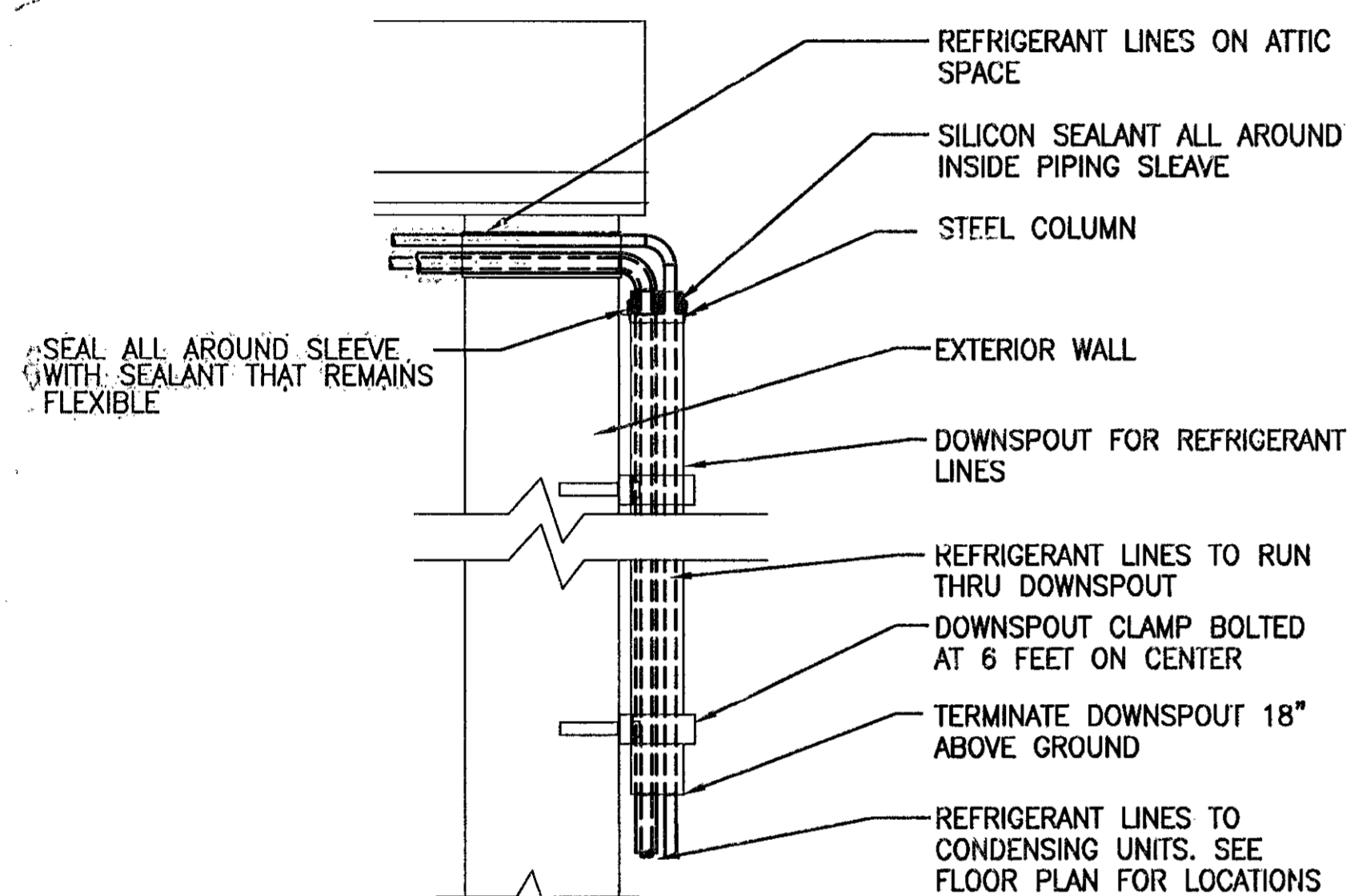
2 A/C UNIT DETAIL
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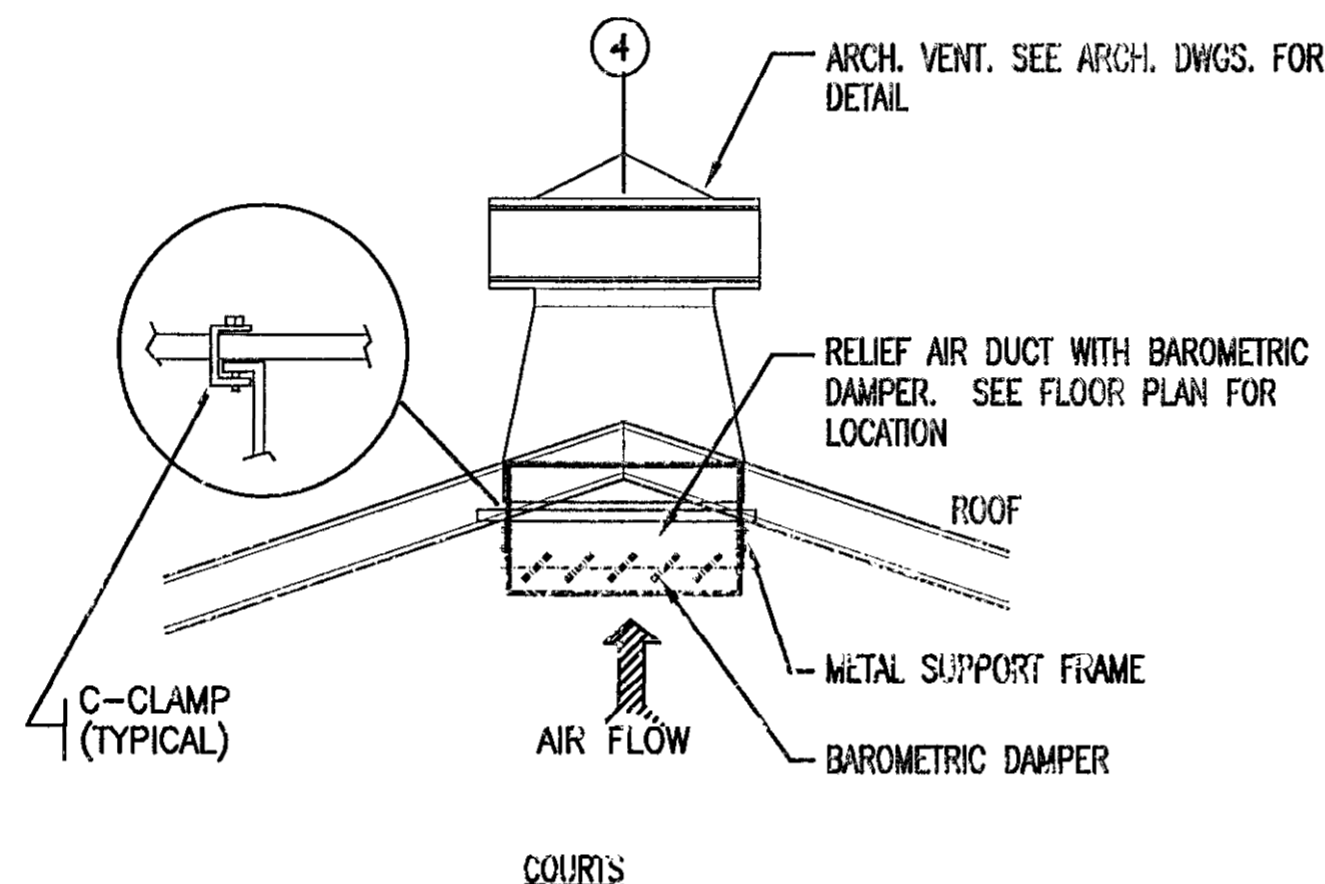
3 IN-LINE FAN DETAIL
M5 NOT TO SCALE



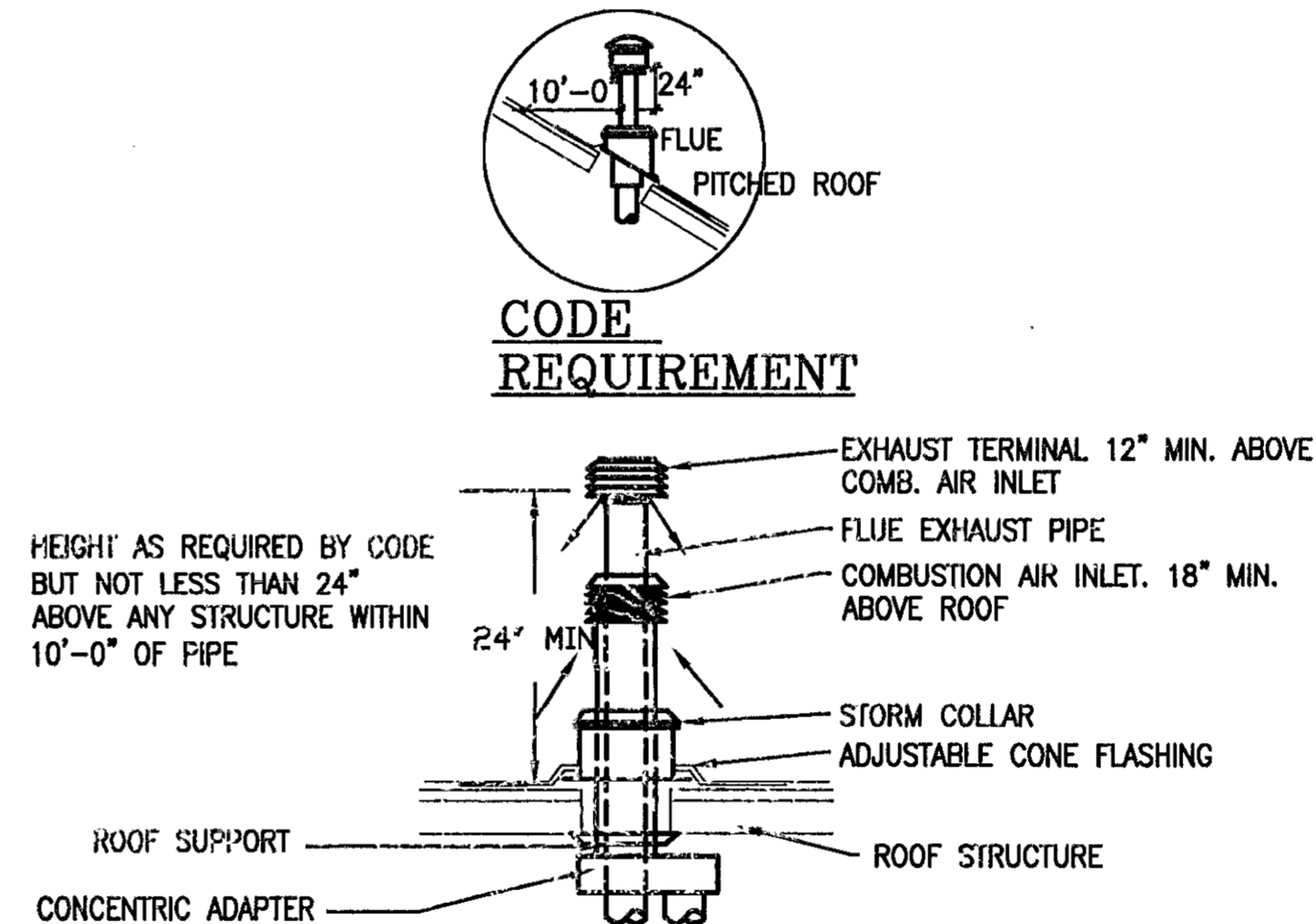
- NOTES:
- FOR STRAP AND TRAPEZE HANGER SIZE, REFER TO SMACNA DUCT STANDARDS.
 - NO POP RIVETS ALLOWED, USE SELF-TAPPING SHEETMETAL SCREWS ONLY.
 - NO DUCTWORK SHALL BE SUPPORTED FROM BOTTOM CORDS OF STRUCTURAL STEEL.
 - DUCT HANGER DTL (LOW VEL.)
M5 NOT TO SCALE



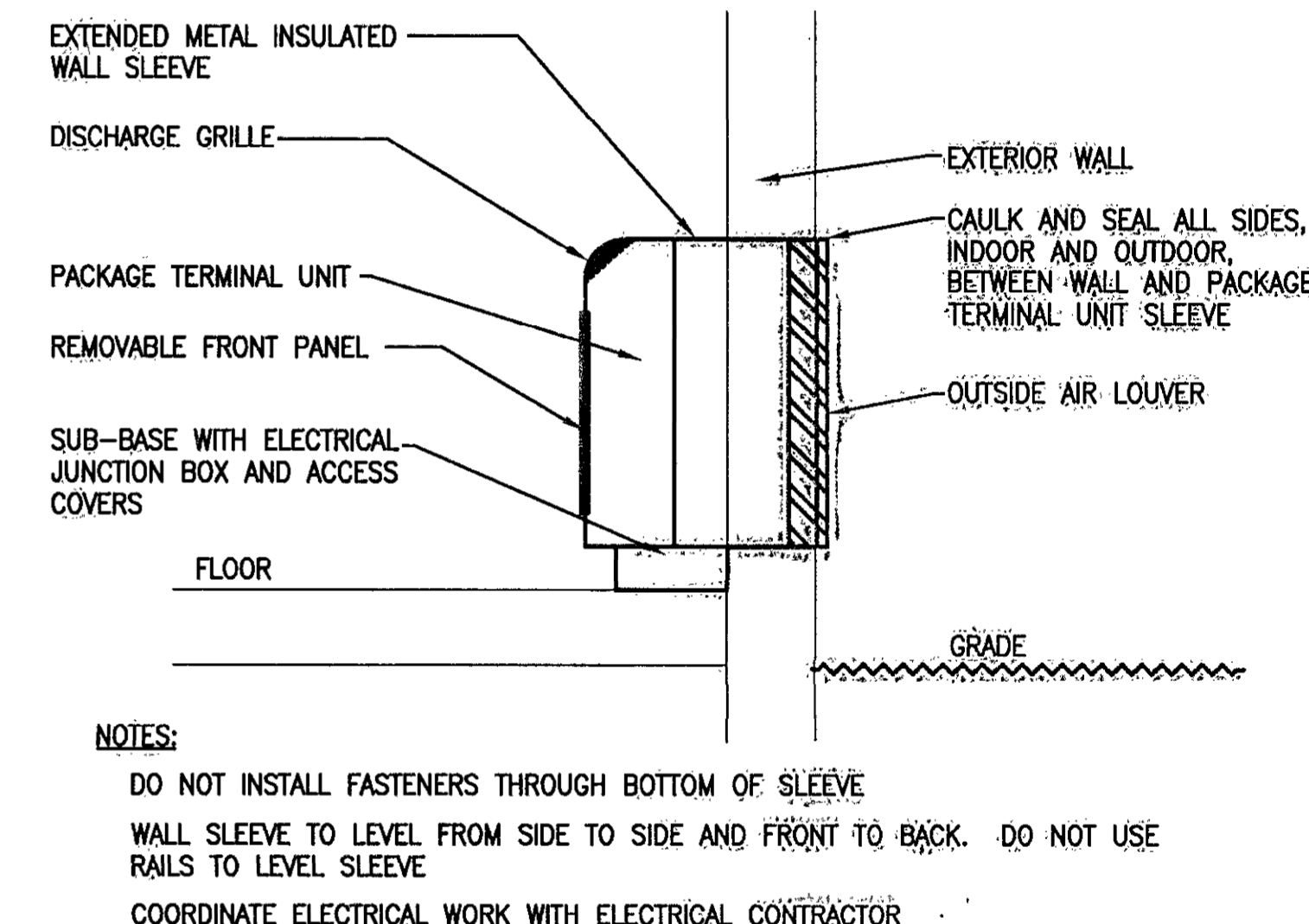
5 EXTERIOR WALL REFRIGERANT LINE INSTALLATION DETAIL
M5 NOT TO SCALE



6 RELIEF AIR DUCT ARRANGEMENT
M5 NOT TO SCALE



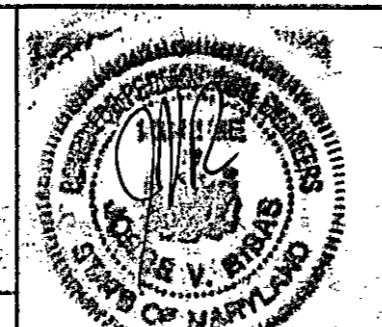
7 HEATER COMB/VENT DETAIL
M5 NOT TO SCALE



8 PACKAGE TERMINAL UNIT
M5 NOT TO SCALE

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DATE: 7/14/05	BY	No.	REVISION
			DATE

MULTI-SPORTS BUILDING DETAILS
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS
TITLE

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MRF#04-075 SCALE
AS SHOWN SHEET
M05

PLOT DATE: 11/27/2006

PLUMBING FIXTURE SPECIFICATIONS

- P-1 WATER CLOSET FLUSH VALVE (WALL MOUNTED).- AMERICAN STANDARD AFWALL EL. 1.6 ELONGATED FLUSH VALVE TOILET NO. 2257.103 WITH SLOAN ROYAL NO. WES-111 DUAL FLUSH; JAY R. SMITH WALL CARRIER NO. 200 SERIES. FIXTURE TO BE MOUNTED AT 15" HIGH FROM RIM TO FINISHED FLOOR.
- P-2 WATER CLOSET FLUSH VALVE, HANDICAPPED (WALL MOUNTED).- AMERICAN STANDARD AFWALL EL. 1.6 ELONGATED FLUSH VALVE TOILET NO. 2257.103 WITH SLOAN ROYAL NO. WES-111 DUAL FLUSH; OLSONITE NO. 95 OPEN FRONT SEAT LESS COVER; JAY R. SMITH WALL CARRIER NO. 200 SERIES. FIXTURE TO BE MOUNTED AT 17" HIGH FROM RIM TO FINISHED FLOOR.
- P-3 URINAL FLUSH VALVE, HANDICAPPED.- CERAMIC ZERO WATER USE MOUNT AT 17 INCHES FROM RIM TO FINISHED FLOOR. WATER URINALS SHALL BE AS MANUFACTURE BY WATERLESS COMPANY.
- P-4 LAVATORY WALL HUNG.- AMERICAN STANDARD COMRADE LAVATORY NO. 0124.024 WITH CHICAGO FAUCET NO. 850-4 (SENSOR TYPE FAUCET) WITH FLOW CONTROL AND AERATOR, WITH BUILT IN CHICAGO SENSOR WITH A 24V. AC SOLENOID VALVE AND TRANSFORMER (24V. AC - 60 CYCLE - 1 AMP). PROVIDE 3/8" ANGLE SUPPLY WITH STOP AND 1 1/4" CAST BRASS "P" TRAP, PROVIDE LAVATORY DRAIN NO. 2411.015 AND 1 1/4" TAILPIECE WITH INTEGRAL PERFORATED GRID. INSULATE TRAP AND FITTINGS.
- P-5 LAVATORY WALL HUNG, HANDICAPPED.- AMERICAN STANDARD COMRADE LAVATORY NO. 0124.024 WITH CHICAGO FAUCET NO. 850-4 (SENSOR TYPE FAUCET) WITH FLOW CONTROL AND AERATOR, WITH BUILT IN CHICAGO SENSOR WITH A 24V. AC SOLENOID VALVE AND TRANSFORMER (24V. AC - 60 CYCLE - 1 AMP). PROVIDE 3/8" ANGLE SUPPLY WITH STOP AND 1 1/4" P.V.C. "P" TRAPS (ELECTRICAL REQUIREMENTS: 1/5 H.P.-4.7AMPS-115V.).
- P-6 MOP SINK.- MOLDED-STONE MOP SERVICE SINK BASIN FIAT NO. MSB-2424 WITH: MOP HANGER MODEL NO. 889-CC-24" LONG X 3" WIDE STAINLESS STEEL W/ THREE RUBBER TOOL GRIPS, SERVICE FAUCET MODEL NO. 830-AA W/ VACUUM BREAKER, HOSE & BRACKET MODEL NO. 832-AA 39" LONG, FLEXIBLE HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" CHROME COUPLING AT ONE END, AND STRAINER MODEL NO. 1453-BB FLAT TYPE STAINLESS.
- P-7 ELECTRIC WATER COOLER, HANDICAPPED.- ELKAY NO. ERFPM28C TWO LEVEL BARRIER FREE STAINLESS STEEL WATER COOLER. PROVIDE 3/8" ANGLE SUPPLIES WITH STOP AND 1 1/4" P.V.C. "P" TRAPS (ELECTRICAL REQUIREMENTS: 1/5 H.P.-4.7AMPS-115V.).
- P-8 COMMUNITY ROOM SINK.- ELKAY SINGLE COMPARTMENT SINK CELEBRITY NO. GECR-2521/R WITH: ELKAY TWO HANDLE KITCHEN FAUCET NO. LK-232-S-BH-5; IN-SINK-ERATOR NO. 444 DISPOSAL (3/4 HP.-1725 R.P.M.-120V); PROVIDE 3/8" ANGLE SUPPLIES WITH STOP AND 1 1/2" "P" TRAP.

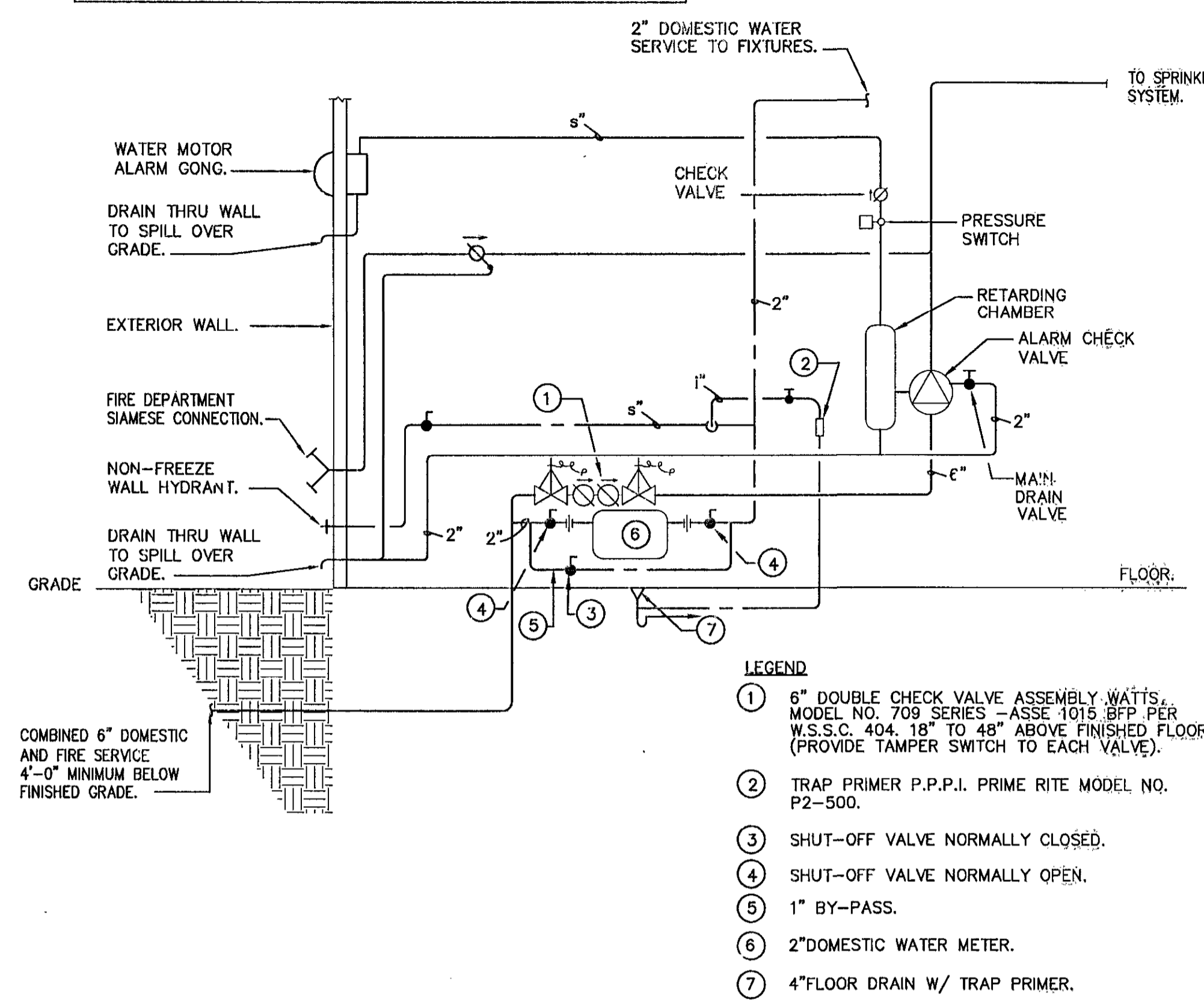
PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	COLD	HOT	REMARK
P-1	WATER CLOSET WALL MOUNT DUAL FLUSH VALVE	3"	2"	1"	---	WITH DUAL FLUSH VALVE
P-2	WATER CLOSET WALL MOUNT DUAL FLUSH VALVE HANDICAPPED	3"	2"	1"	---	DUAL FLUSH VALVE TO BE INSTALLED ON THE WIDE SIDE OF STALL.
P-3	URINAL WALL MOUNT WATERLESS HANDICAPPED	2"	11"	---	---	WATERLESS URINAL
P-4	LAVATORY WALL HUNG SENSOR FAUCET	11"	11"	1"	1"	LAVATORY FAUCET SHALL BE PROVIDED WITH ONE TEMPERATURE TEMPERED WATER (110F). PROVIDE TEMPERED WATER AS INDICATED ON DRAWINGS.
P-5	LAVATORY WALL HUNG SENSOR FAUCET HANDICAPPED	11"	11"	1"	1"	---
P-6	MOP SINK.	3"	11"	1"	1"	MOP SINK FAUCET SHALL BE PROVIDED WITH VACUUM BREAKER.
P-7	ELECTRIC WATER COOLER HANDICAPPED	11"	11"	1"	---	---
P-8	COMMUNITY ROOM SINK W/DISPOSAL	11"	11"	1"	1"	PROVIDE GARBAGE DISPOSAL.
P-9	WATER CLOSET FLOOR MOUNT DUAL FLUSH VALVE HANDICAPPED	4" X 3"	2"	1"	---	DUAL FLUSH VALVE TO BE INSTALLED ON THE WIDE SIDE OF STALL.

P-9 WATER CLOSET FLUSH VALVE, HANDICAPPED (FLOOR MOUNTED).- AMERICAN STANDARD MADERA 17" ELONGATED FLUSH VALVE TOILET NO. 3043.102 WITH SLOAN ROYAL NO. WES-111 DUAL FLUSH; OLSONITE NO. 95 OPEN FRONT SEAT LESS COVER.

* A RECEPTACLE MOUNTED ABOVE THE CEILING FOR A STEP DOWN TRANSFORMER AND LOW VOLTAGE CABLES GOING TO THE LAVATORY SENSOR'S ARE SHOWN ON THE ELECTRICAL DRAWINGS (TYPICAL FOR ALL LAVATORIES). THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL CONTRACTOR. THE TRANSFORMER NOR THE CABLES SHALL BE EXPOSED.

NOTE:
ENTIRE BUILDING SHALL BE SPRINKLERED IN ACCORDANCE WITH N.F.P.A.-13 CODES AND REGULATIONS. CONTRACTOR SHALL VERIFY WITH THE FIRE MARSHAL THE ZONING REQUIREMENTS AND SHALL COORDINATE WITH THE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE FIRE MARSHAL AND ARCHITECT.



- LEGEND**
- ① 6" DOUBLE CHECK VALVE ASSEMBLY WATTS, MODEL NO. 709 SERIES - ASSE 1015 BPP PER W.S.S.C. 404.18" TO 48" ABOVE FINISHED FLOOR. (PROVIDE TAMPER SWITCH TO EACH VALVE).
 - ② TRAP PRIMER P.P.P.I. PRIME RITE MODEL NO. P2-500.
 - ③ SHUT-OFF VALVE NORMALLY CLOSED.
 - ④ SHUT-OFF VALVE NORMALLY OPEN.
 - ⑤ 1" BY-PASS.
 - ⑥ 2" DOMESTIC WATER METER.
 - ⑦ 4" FLOOR DRAIN W/ TRAP PRIMER.

PLUMBING SYMBOL LIST

SYMBOLS	DESCRIPTIONS
---	WASTE OR SOIL VENT PIPE
---	COLD WATER (C.W.)
---	HOT WATER (H.W.)
---	TEMPERED WATER 110F (T.W.)
---	FIRE PIPE
---	LIQUID PROPANE SPRINKLER LINE
---	GAS COCK
---	SHUT-OFF VALVE
---	FLOW SWITCH
---	CHECK VALVE
---	SHOCK ABSORBER (S.A.)
---	NON-FREEZE WALL HYDRANT (W.H.) OR HOSE BIBB (H.B.)
---	UNION
---	CLEANOUT (C.O.)
---	WALL CLEANOUT (W.C.O.)
---	FLOOR DRAIN (F.D.)
---	FINISHED FLOOR ELEVATION
---	INVERT ELEVATION
---	SANITARY RISER DESIGNATION
---	WATER RISER DESIGNATION
---	OUTSIDE SCREW AND YOKE VALVE W/ TAMPER SWITCH (O.S. & Y.V. W/ T.S.)
---	ABOVE FINISHED FLOOR

1 PLUMBING FIXTURE SCHEDULE AND SPECIFICATIONS.

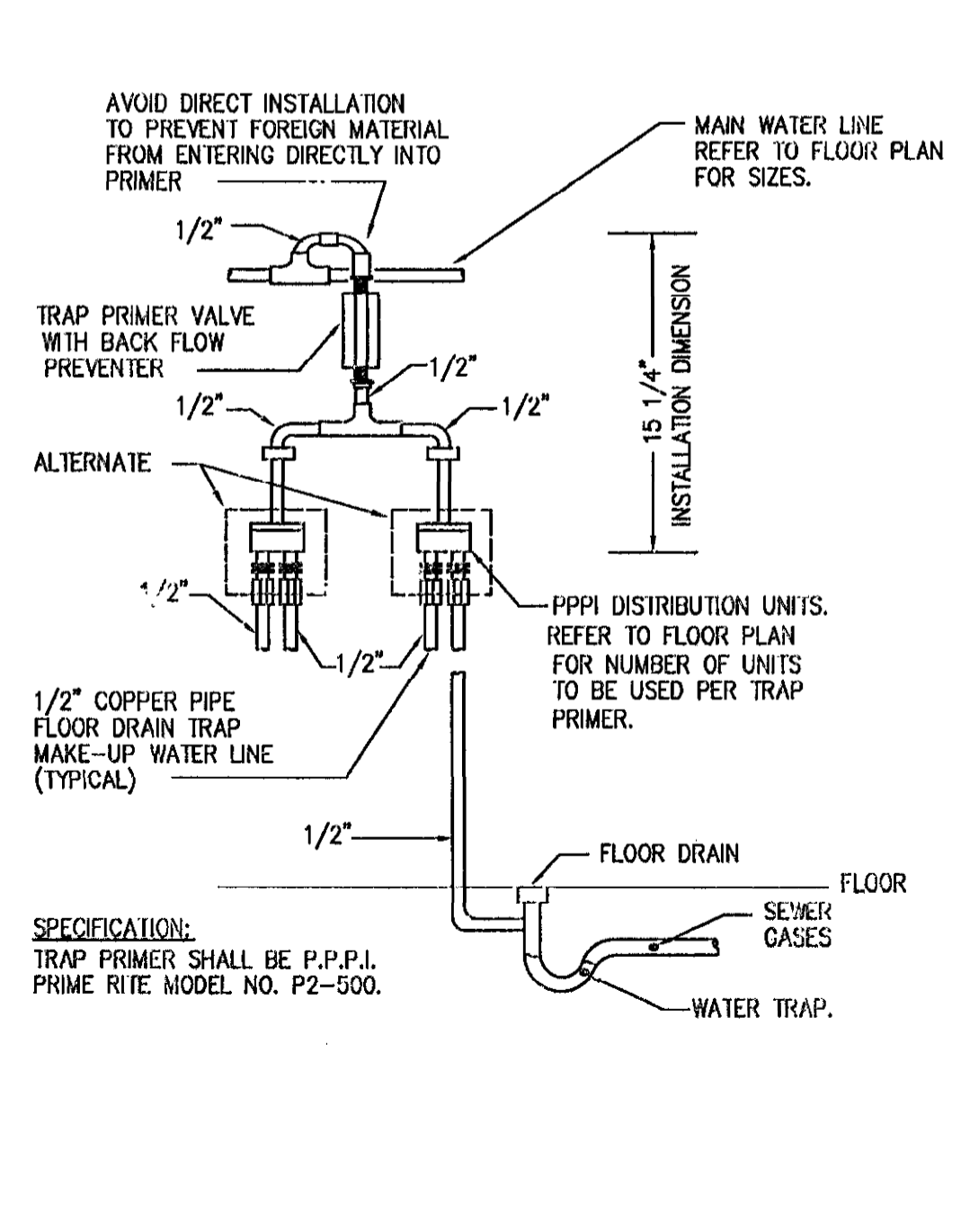
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2 DOMESTIC WATER SERVICE DETAIL

NOT TO SCALE ---

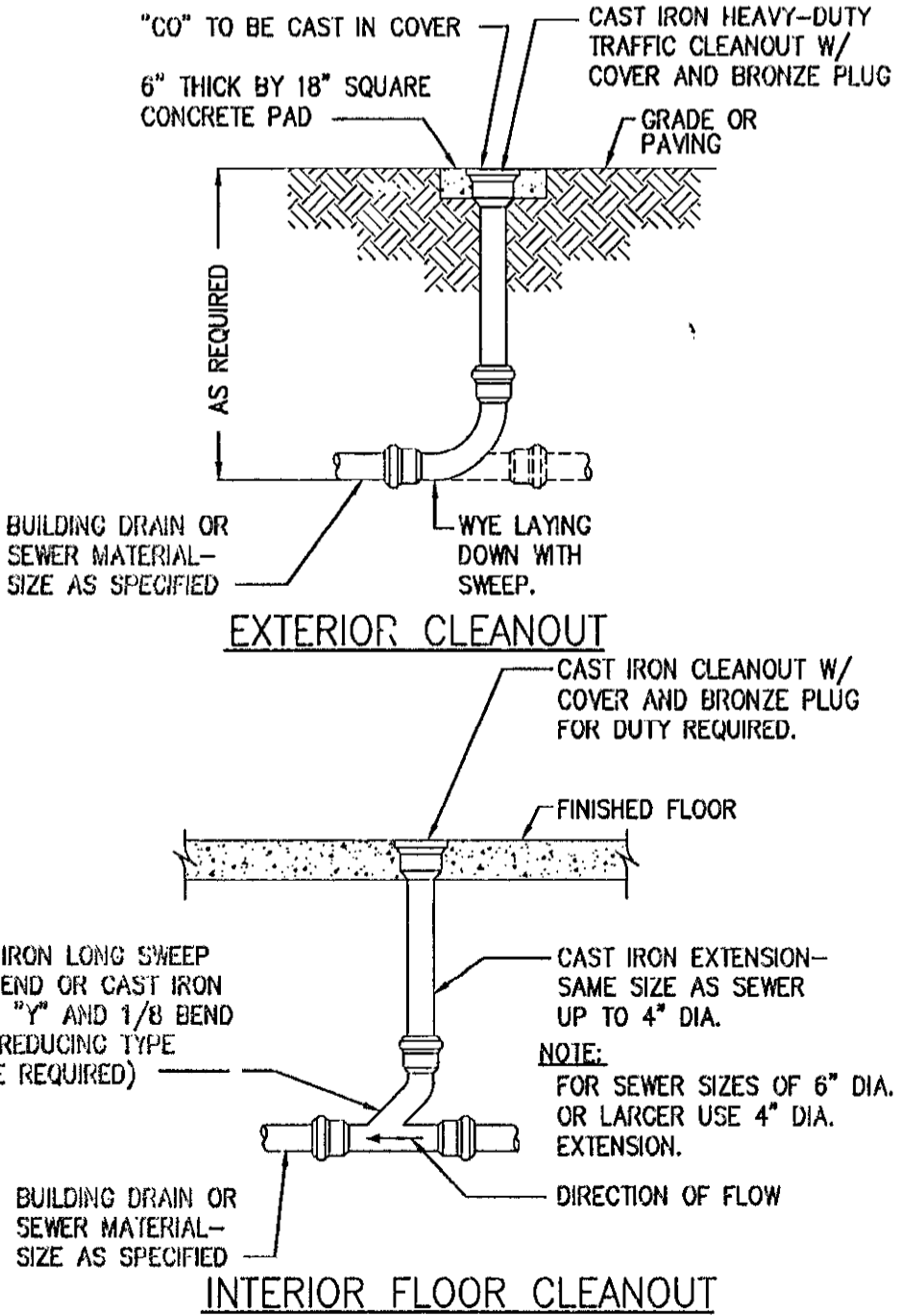
3 PLUMBING SYMBOOLS LIST

NOT TO SCALE ---



4 TRAP PRIMER DETAIL

NOT TO SCALE ---

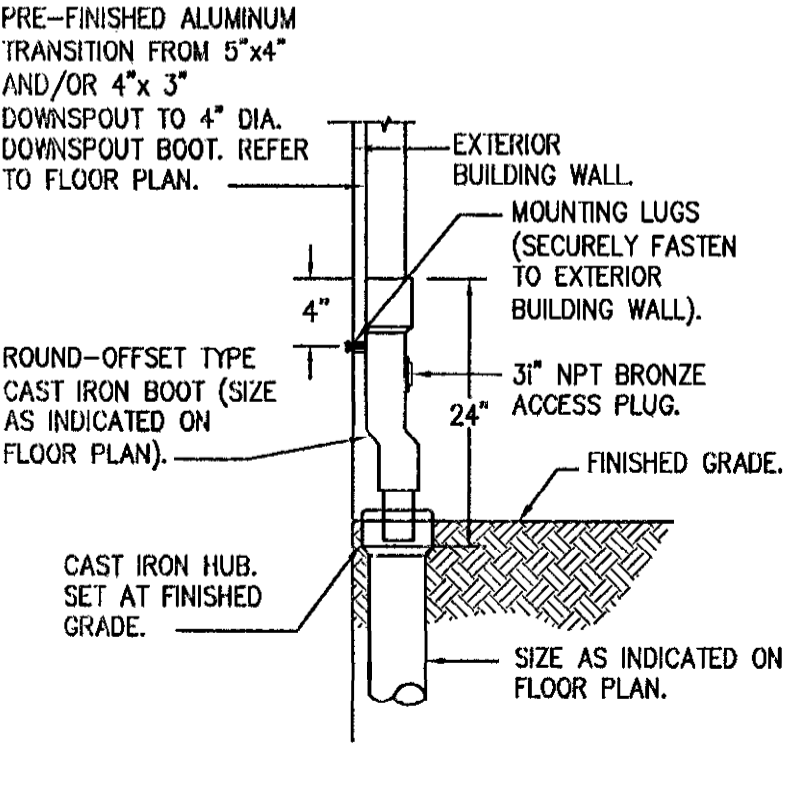


5 FLOOR CLEANOUTS

NOT TO SCALE ---

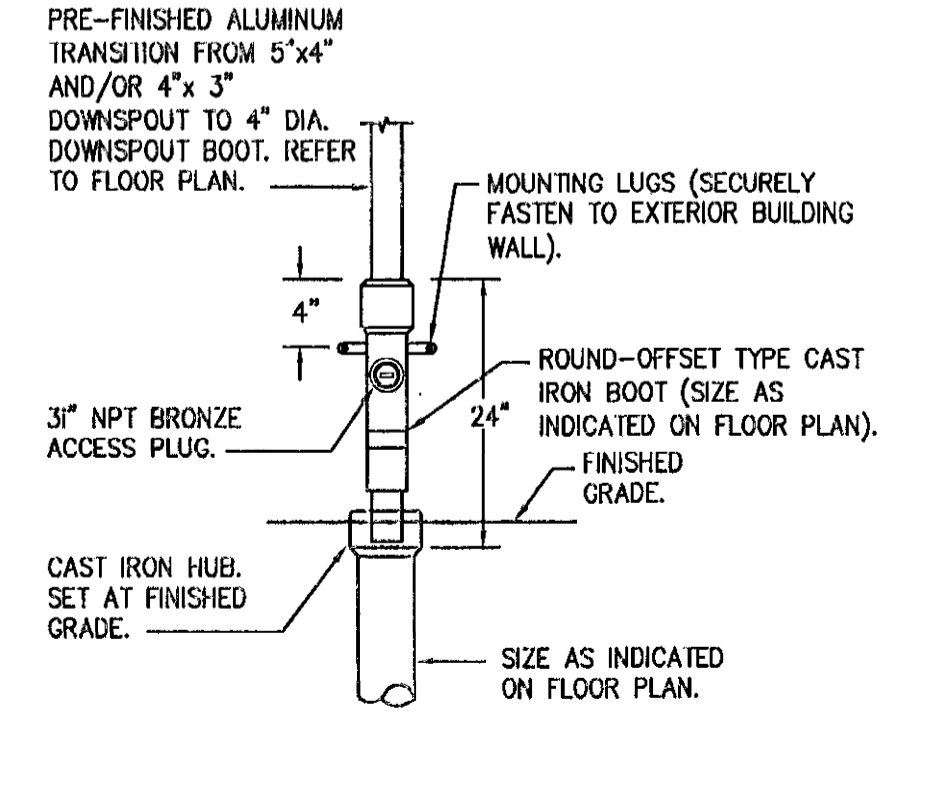
DRAWING LIST - PLUMBING

- P-01 PLUMBING FIXTURE SCHEDULE AND DETAILS.
- P-02 FIRST FLOOR PLAN - PLUMBING
- P-03 ROOF PLAN - PLUMBING
- P-04 PARTIAL FLOOR PLANS - PLUMBING
- P-05 PLUMBING - RISER DIAGRAMS.



6 CAST-IRON BOOT

NOT TO SCALE ---



7 ELECTRIC WATER HEATER DETAIL

NOT TO SCALE ---

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Fax (410) 267-8832



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CHK:		100% - FINAL BID SET	
DATE: 7/14/05	BY No.	REVISION	DATE

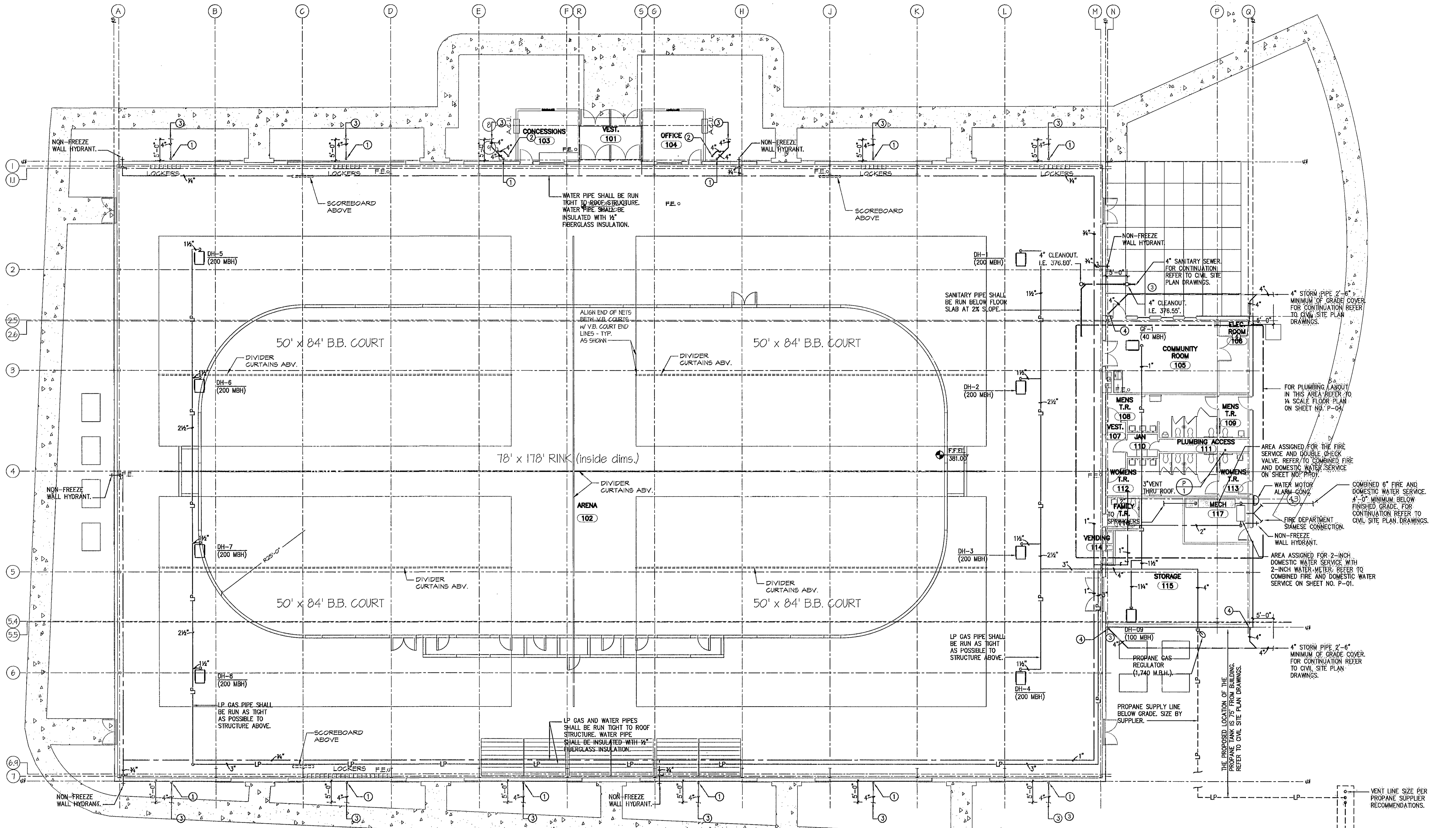
PLUMBING FIXTURE SCHEDULE AND DETAILS
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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MRP04-075
SCALE AS SHOWN
SHEET P 01

PLG1 DATE: 10/05/2007



DRAWING NOTES (THIS SHEET ONLY)

- ① 5"x4" DOWNSPOUT (3,000 SQ.FT.) WITH CAST IRON BOOT. SEE DETAIL ON SHEET NO. P-01.
- ② 4"x3" DOWNSPOUT (400 SQ.FT.) WITH CAST IRON BOOT. SEE DETAIL ON SHEET NO. P-01.
- ③ 4" STORM PIPE 2'-0" MINIMUM OF GRADE COVER. FOR CONTINUATION REFER TO CIVIL SITE PLAN DRAWINGS.
- ④ 4"x3" DOWNSPOUT (750 SQ.FT.) WITH CAST IRON BOOT. SEE DETAIL ON SHEET NO. P-01.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 10648, Expiration Date: 3.10.06

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 Fax (410) 287-9932
 ANNAPOLIS CENNEVILLE ELKTON PRINCE FREDERICK SALISBURY



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		REVISION	DATE

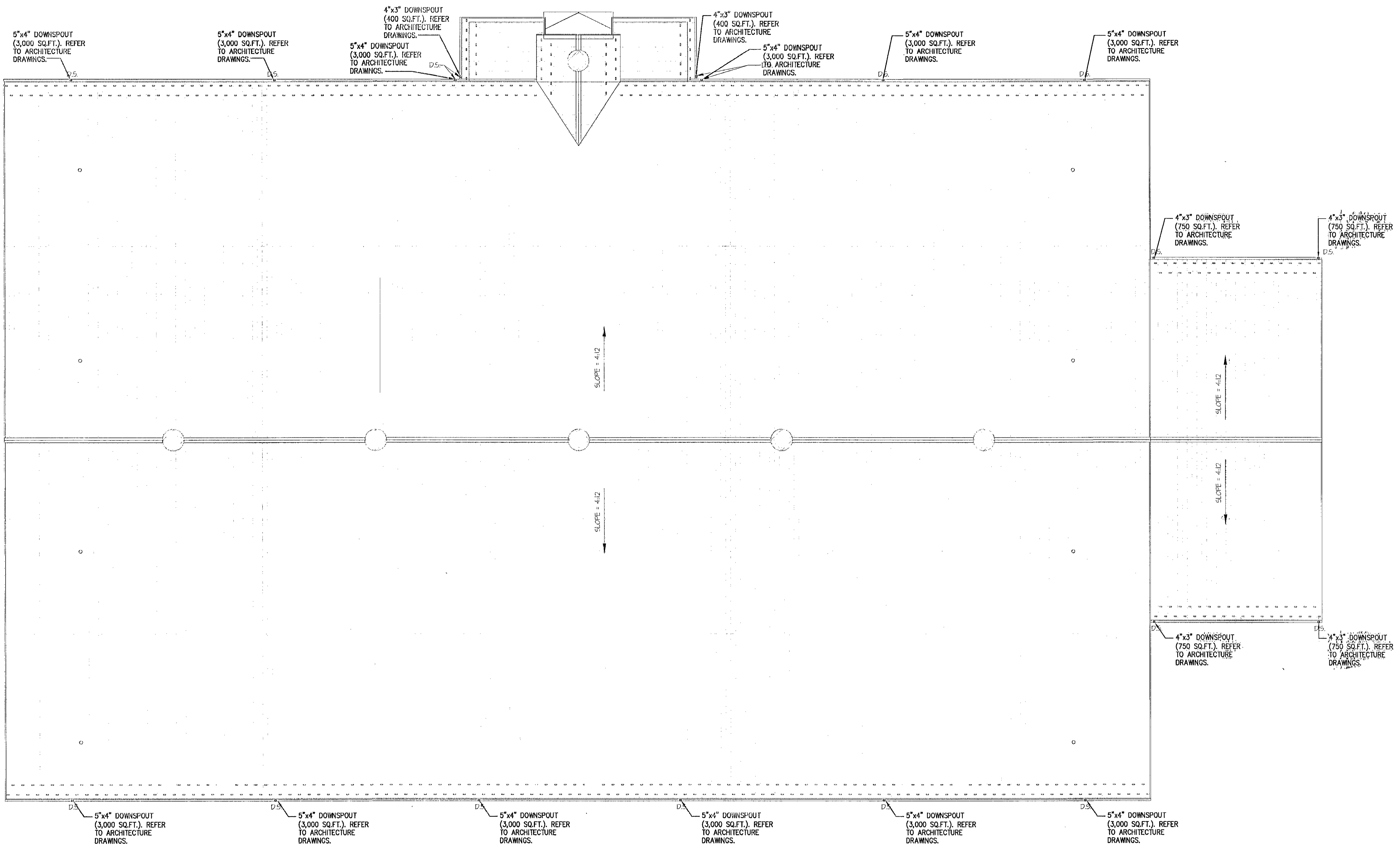
**FIRST FLOOR PLAN
 PLUMBING
 MEADOWBROOK
 SPORTS CENTER**
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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MRF04-075
 SCALE
 3/32"=1'-0"
 SHEET
P
02

PLOT DATE: 5/14/2007



ROOF FLOOR PLAN
SCALE: 3/32"=1'-0"

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Fax: (410) 267-9932

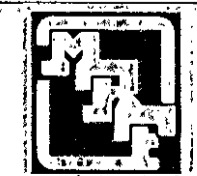


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CHK:			
DATE: 7/14/05	BY	No.	REVISION
			DATE

ROOF PLAN
PLUMBING
MEADOWBROOK
SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS



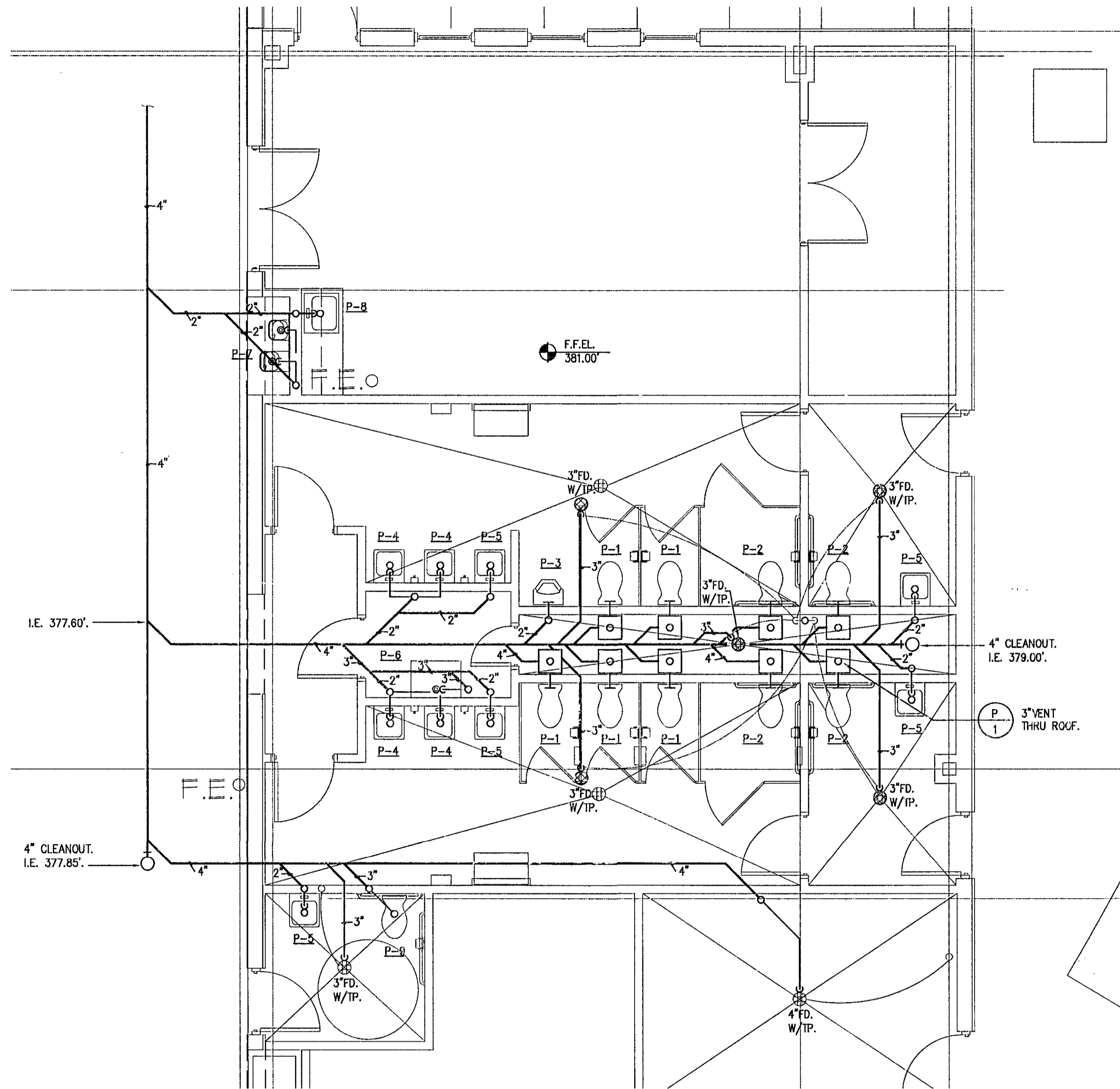
George Voorn Associates, Inc.
Architecture • Interior Design
5501 Twin Knolls Rd., Suite 108
Columbia, Maryland 21045
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Email: gva@georgevoorn.com



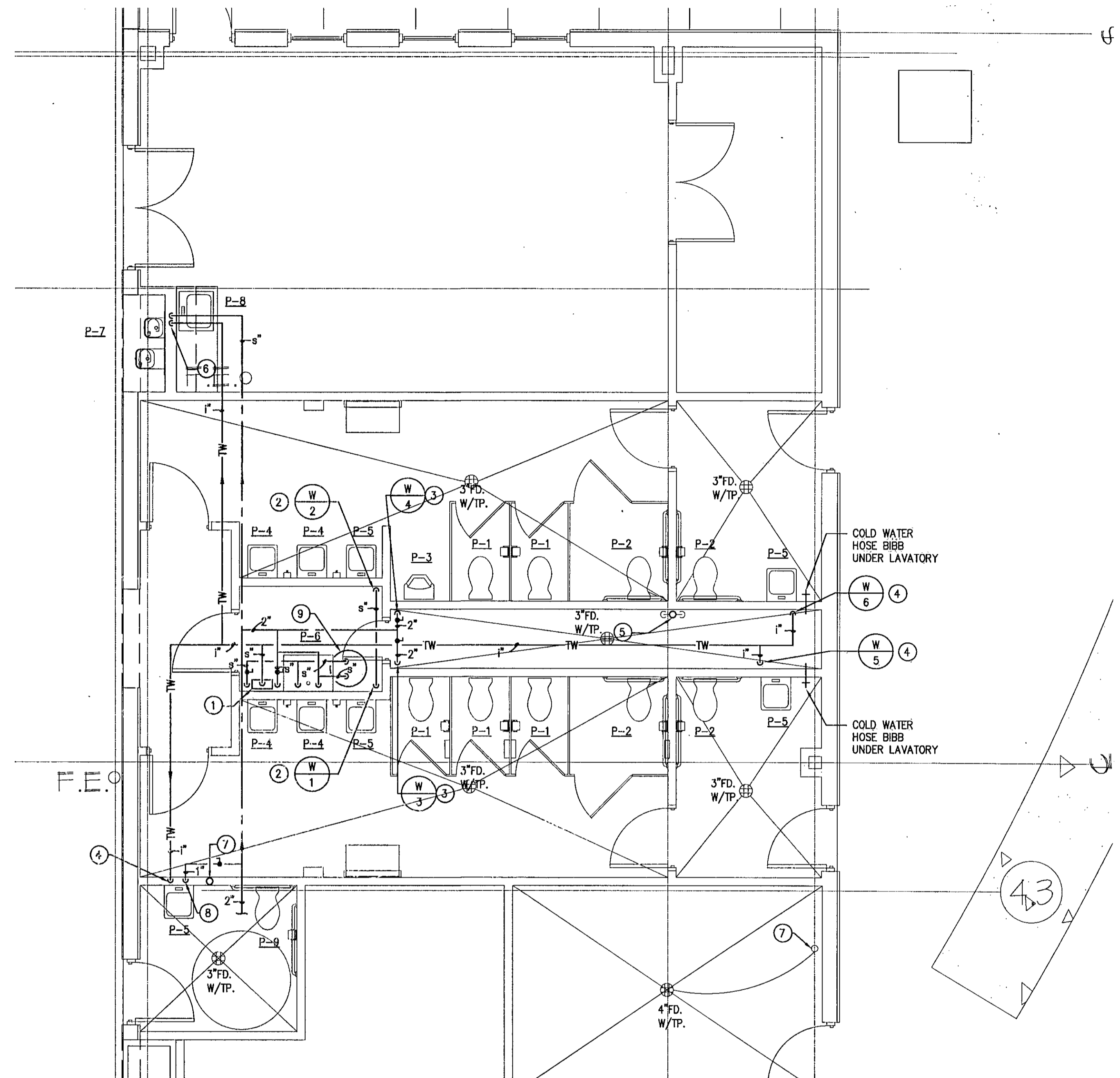
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MRF#04-075 SCALE: 3/32"=1'-0"
SHEET P 03

REV DATE: 5/17/2007



PARTIAL FLOOR PLAN - SANITARY DISTRIBUTION
SCALE: 1/4"=1'-0"



PARTIAL FLOOR PLAN - WATER DISTRIBUTION
SCALE: 1/4"=1'-0"

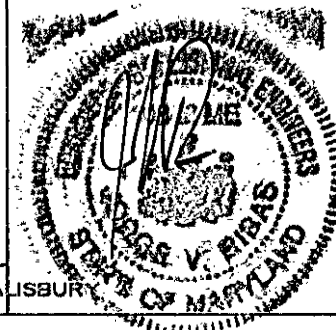
DRAWING NOTES (THIS SHEET ONLY)

- ① TEMPERING VALVE (TO BE SET AT 110 DEGREES FAHRENHEIT). VALVE SHALL BE POWERS HYDROGUARD MODEL NO. LM491-10.
- ② 5" TEMPERED WATER (110F) PIPE DOWN TO LAVATORIES.
- ③ 2" COLD WATER PIPE DOWN TO FIXTURES.
- ④ 1" TEMPERED WATER (110F) PIPE DOWN TO LAVATORY.
- ⑤ TRAP PRIMER. TRAP PRIMER SHALL BE P.P.P.I. PRIME RITE MODEL NO. P2-500 WITH DISTRIBUTION UNITS NO. DU-2 AND DU-3.
- ⑥ 5" COLD AND 1" TEMPERED WATER (110F) PIPES DOWN FIXTURES.
- ⑦ TRAP PRIMER. TRAP PRIMER SHALL BE P.P.P.I. PRIME RITE MODEL NO. P2-500.
- ⑧ 1" COLD WATER PIPE DOWN TO WATER CLOSET.
- ⑨ ELECTRIC WATER HEATER MOUNTED HIGH ON WALL (4.5KW-208V-1Ø). SEE DETAIL ON SHEET NO. P01.

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DATE: 7/14/05	BY	No.	REVISION
			DATE

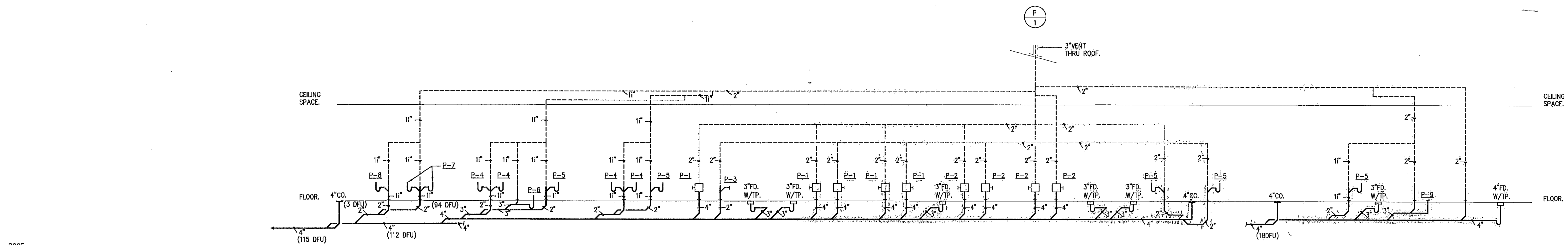
PARTIAL FLOOR PLANS
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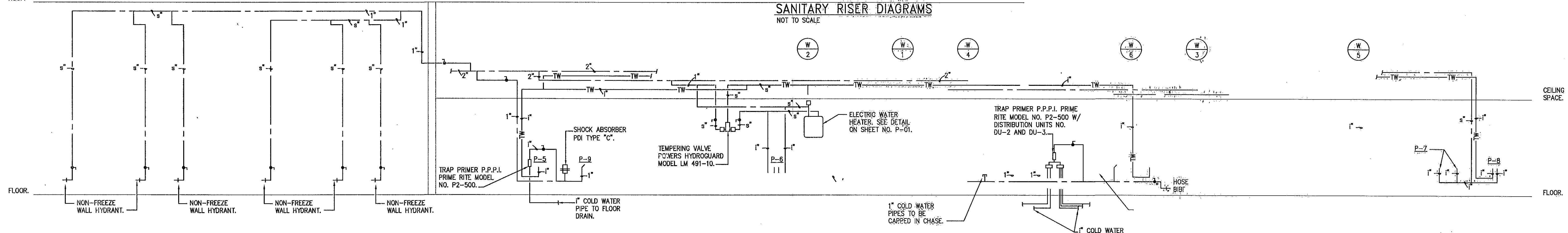


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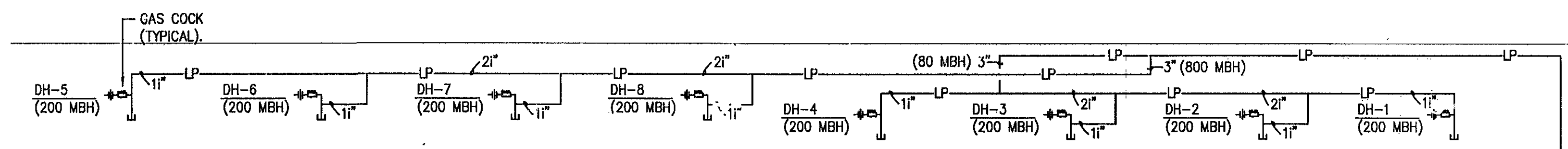
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SANITARY RISER DIAGRAMS
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WATER RISER DIAGRAMS
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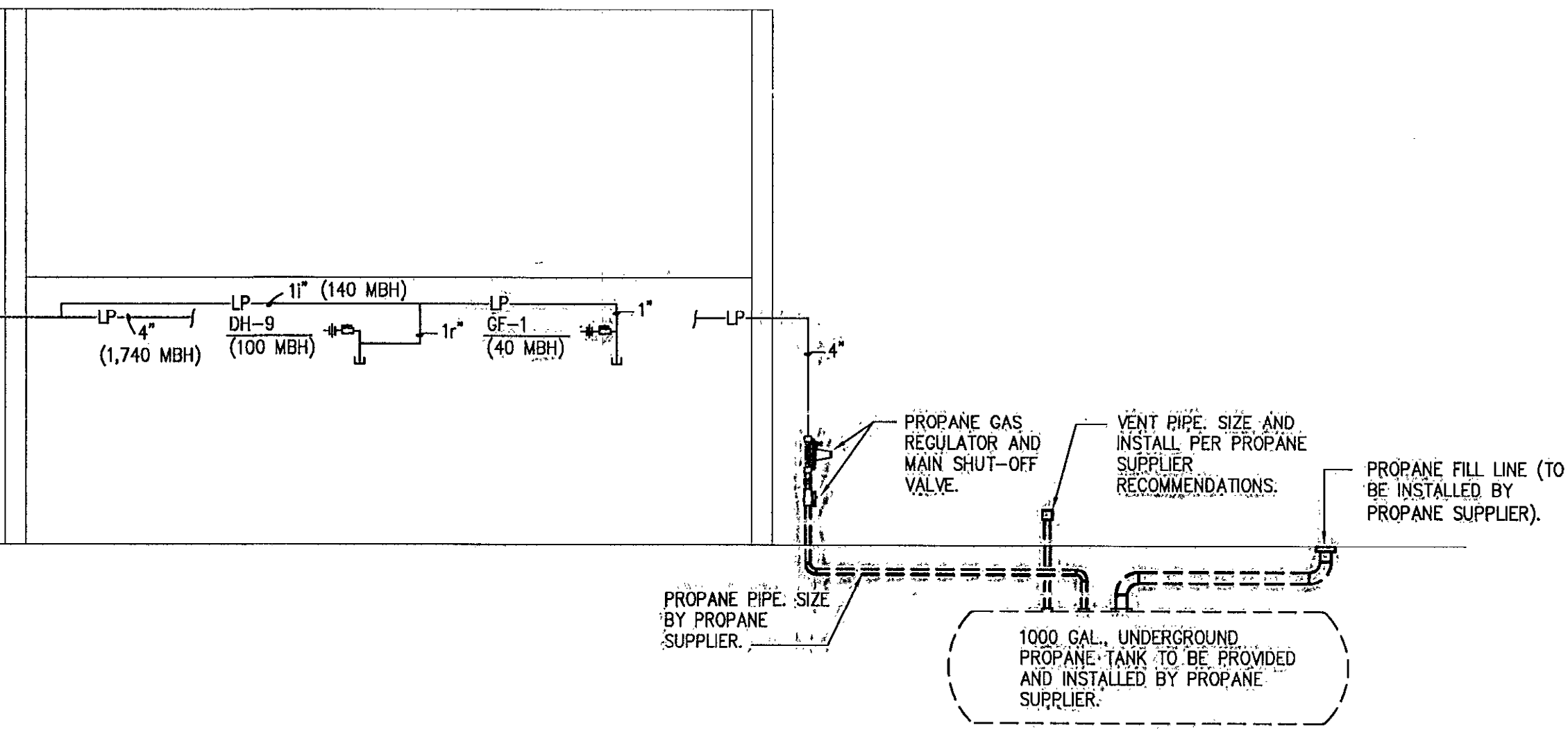


SPECIFICATIONS:

- LP GAS PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH WELDED JOINTS. MALLEABLE SCREW FITTINGS MAY BE USED FOR PIPING 2-INCHES OR SMALLER. PROVIDE GAS COCKS AT ALL EQUIPMENT CONNECTIONS.
- LP GAS PIPING SHALL BE 3/4-INCH MINIMUM FROM ANY WALL SURFACE.

PROPANE GAS DISTRIBUTION NOTES:

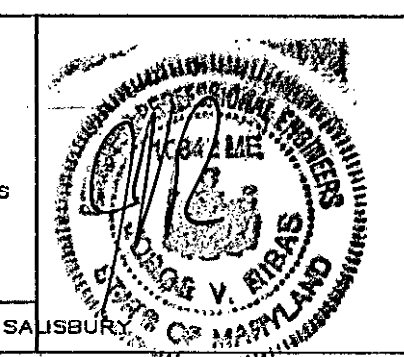
- PROPANE GAS PIPING DISTRIBUTION FROM REGULATOR TO EQUIPMENT SIZED BASE ON:
2,200 M.B.H. INPUT LOAD;
LP GAS PRESSURE OF 11-INCH WATER COLUMN;
600 FEET TOTAL DEVELOPED LENGTH;
AND WITH A GAS PRESSURE DROP OF 10 PERCENT.



LP GAS RISER DIAGRAMS
NOT TO SCALE

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LP GAS, SANITARY AND WATER RISER DIAGRAMS
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HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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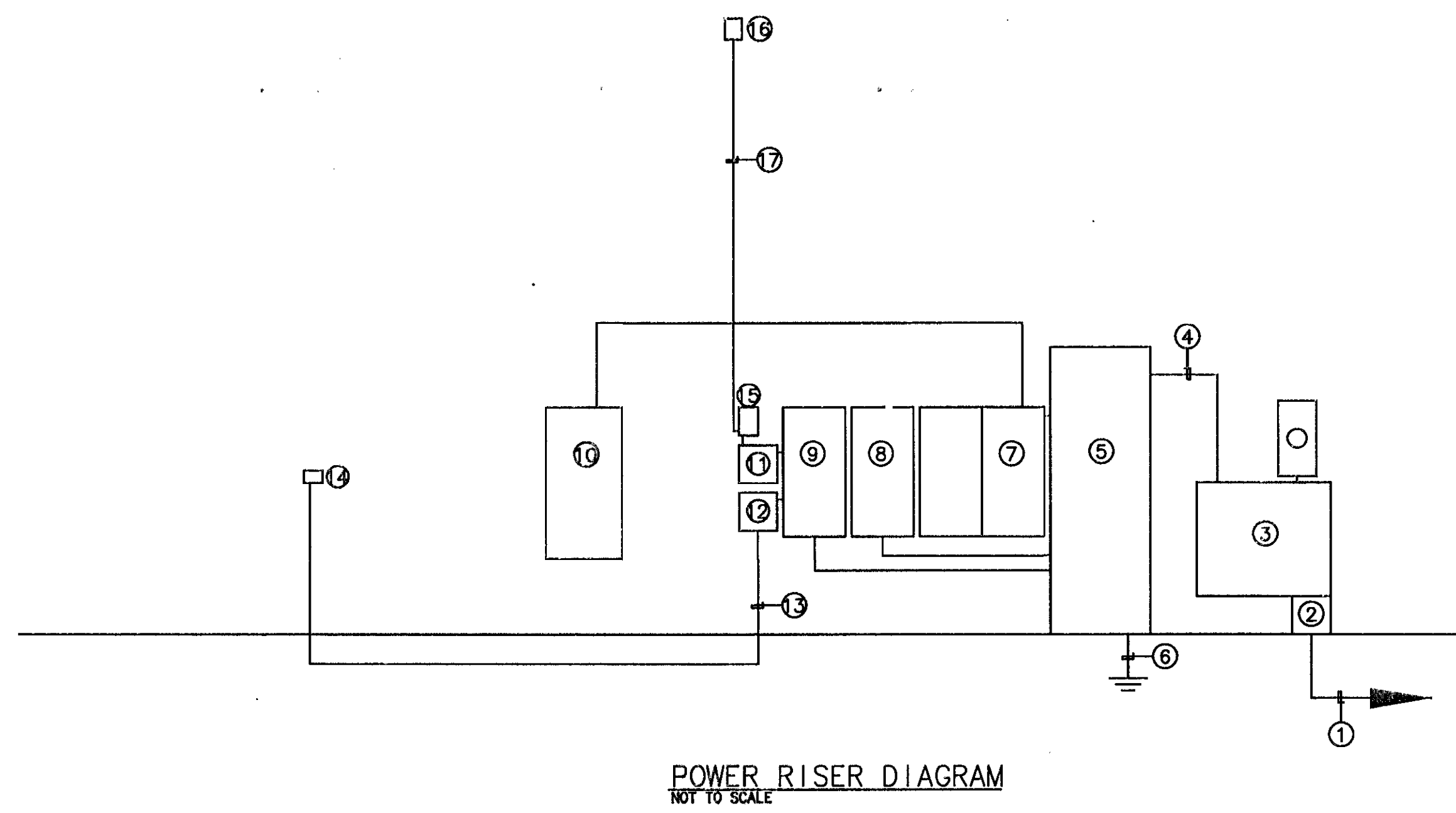
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MRF#04-075
SCALE
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SHEET
P
05

SYMBOL LIST

Table listing electrical symbols such as Fluorescent Lighting Fixture, Exit Light with Battery Backup, Remote Emergency Light Fixture, Night Light, Emergency Battery Pack, Single Pole Toggle Switch, etc.

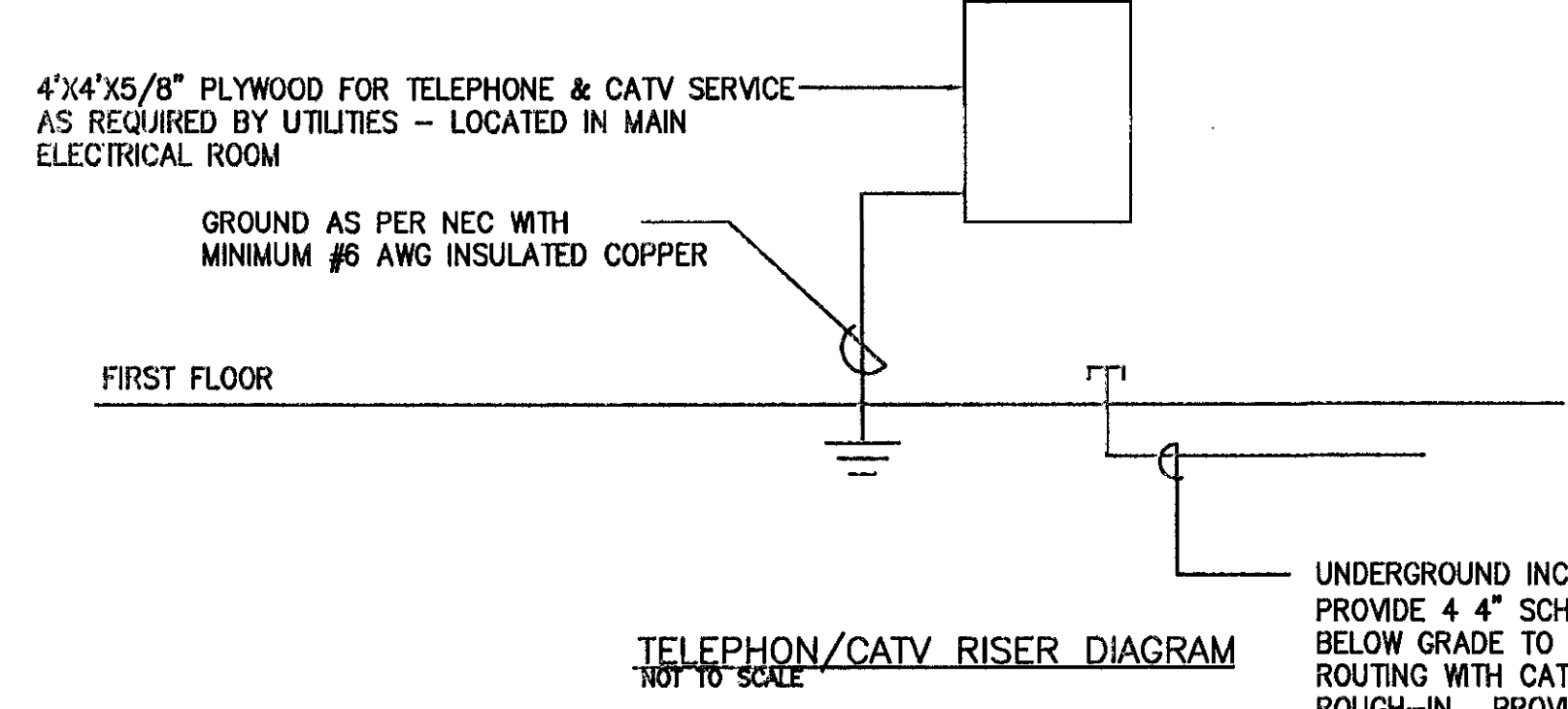
EQUIPMENT SCHEDULE table with columns: ITEM, DESCRIPTION. Lists various equipment like Electric Wall Heater, Electric Unit Heater, Split System Gas Furnace, etc.



RISER SCHEDULE table with columns: ITEM, DESCRIPTION. Details riser components like 120/208V 3ph 4W underground incoming electrical service, service wireway, MCB panel, etc.

NOTE: FINAL LOCATION OF BG&E TRANSFORMER TO BE COORDINATED WITH ARCHITECT PRIOR TO BID.

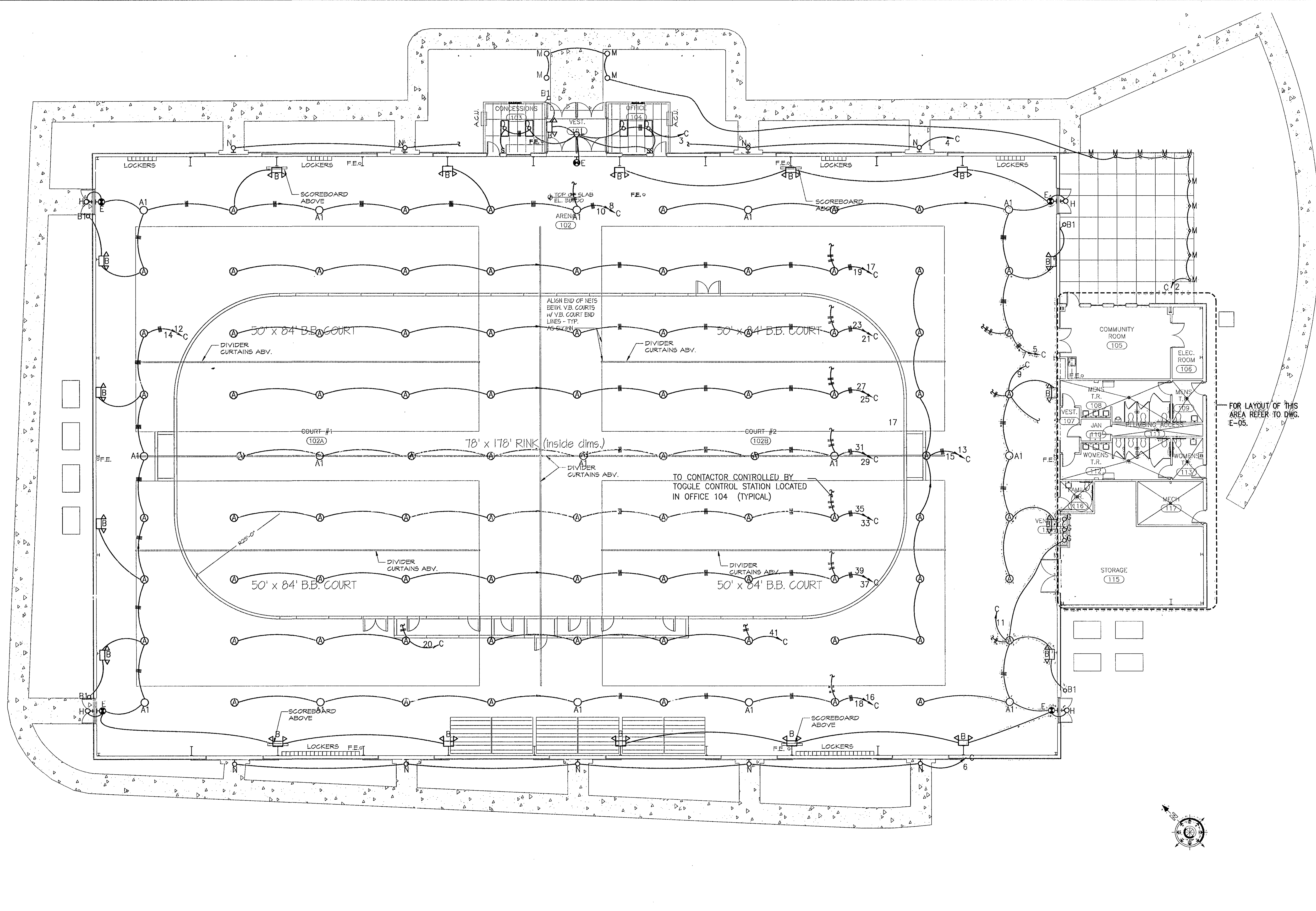
NOTE: ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY LOW VOLTAGE CONNECTIONS BETWEEN PLUMBING APPLIANCE SENSORS AND PLUG-IN TYPE STEP-DOWN TRANSFORMER TO BE LOCATED IN PLUMBING ACCESS 111.



LIGHTING FIXTURE SCHEDULE table with columns: FIXT. TYPE, MANUFACTURER, CATALOG NUMBER(S), VOLTS, LAMP(S), MOUNTING/REMARKS. Lists various lighting fixtures like DAY-BRITE, MC-PHILBEN, etc.

Project information block containing logos for McCrone, GVA, and Mendoza, Ribas, Farinas & Assoc., along with project details, dates, and revision records.

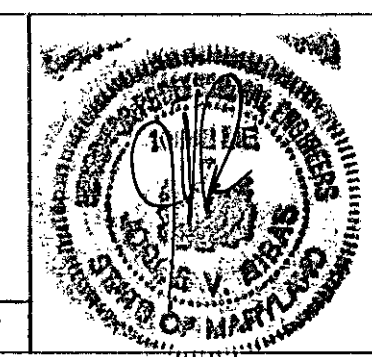
PLT DATE: 11/21/2006



PLOT DATE: 11/27/2006

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 Fax: (410) 297-9922
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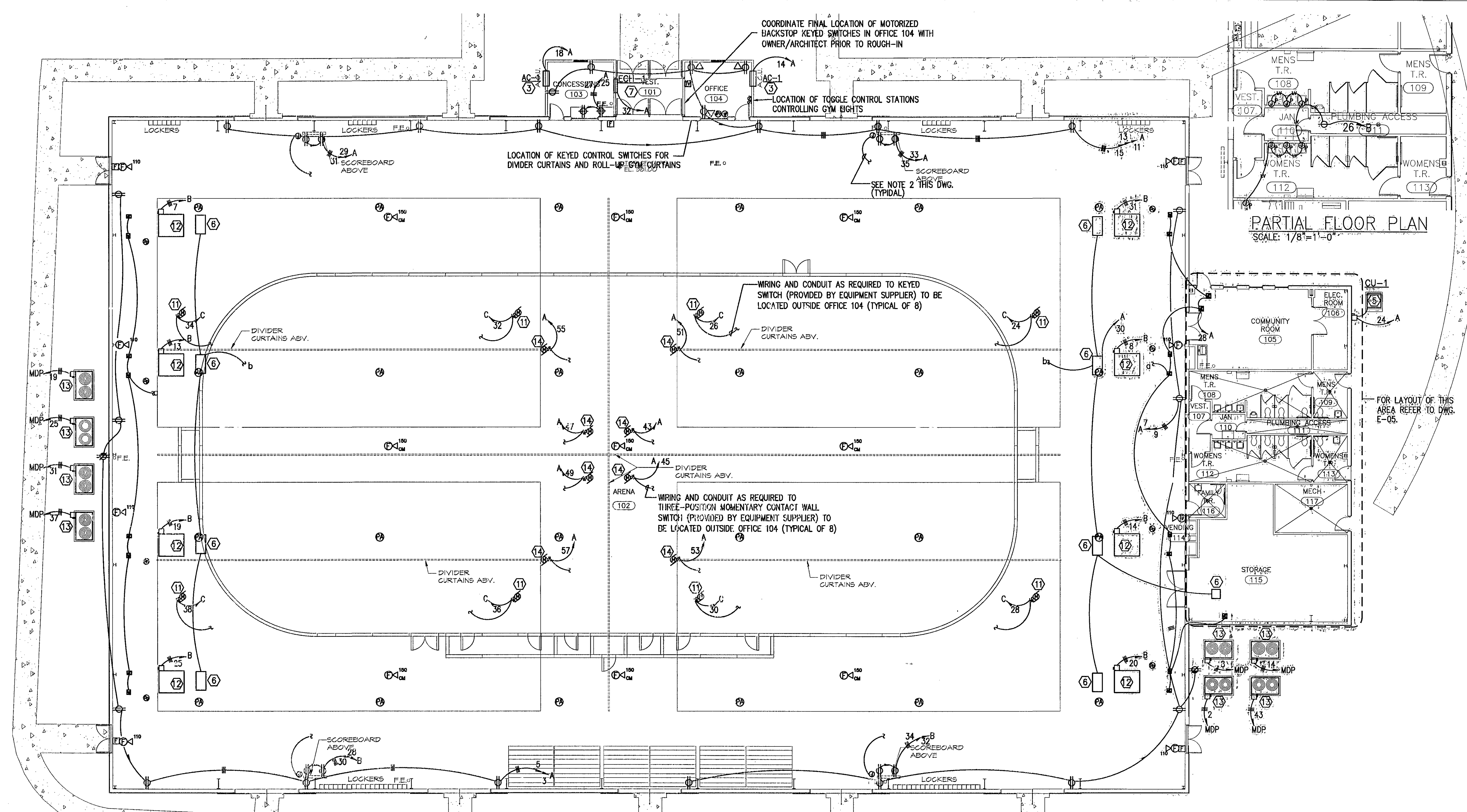
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DRN:		100% SUBMITTAL	1-14-08
CHK:		100% - FINAL BID SET	
DATE: 7/14/05	BY	No.	REVISION
			DATE

FLOOR PLAN - LIGHTING
MEADOWBROOK SPORTS CENTER
 HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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MRF#04-015 SCALE
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E02



SCOREBOARD NOTES:

- SCOREBOARD RECEPTACLES SHALL BE LOCATED AS DIRECTED BY EQUIPMENT SUPPLIER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN (APPROXIMATELY 15'-0" AFF).
- PROVIDE AND INSTALL ONE CONTROL CABLE (2 WIRE COAXIAL #10-58) IN 3/4" EMT FROM CONTROL CENTER TO SCOREBOARD. TERMINATIONS AT CONTROL CENTER AND SCOREBOARD SHALL BE AS RECOMMENDED BY EQUIPMENT SUPPLIER (DIRECT COAX CONNECTION AND/OR MODULAR JACK). FOR FINAL CONTROL LOCATION CONSULT WITH ARCHITECT AND/OR OWNER PRIOR TO ROUGH-IN.

PUBLIC ADDRESS SYSTEM NOTES:

- CONTRACTOR SHALL PROVIDE A COMPLETE PUBLIC ADDRESS SYSTEM CONSISTING OF BUT NOT LIMITED TO THE FOLLOWING:

AMPLIFIER	TOA MIXER AMPLIFIER MODEL A-724 (240 WATTS)
MICROPHONE	TOA MICROPHONE MODEL FM660U
SPEAKERS	SOUNDTUBE MODEL HP5901
SPEAKER CABLES	TWISTED PAIR MINIMUM 16 AWG
MICROPHONE JACK	ATLAS MODEL S501-13C
MICROPHONE CABLE	TWISTED PAIR MINIMUM 22 AWG SHIELDED
- ALL PUBLIC ADDRESS CABLES SHALL BE INSTALLED IN MINIMUM 1/2" CONDUIT, INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING JOISTS.
- FINAL LOCATION OF AMPLIFIER, MICROPHONE JACK AND JUNCTION BOX FOR SPEAKER CABLES SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

COORDINATE FINAL LOCATION OF MOTORIZED BACKSTOP KEYED SWITCHES IN OFFICE 104 WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN

LOCATION OF TOGGLE CONTROL STATIONS CONTROLLING GYM LIGHTS

LOCATION OF KEYED CONTROL SWITCHES FOR DIVIDER CURTAINS AND ROLL-UP CURTAINS

SCOREBOARD ABOVE
SEE NOTE 2 THIS DWG. (TYPICAL)

WIRING AND CONDUIT AS REQUIRED TO KEYED SWITCH (PROVIDED BY EQUIPMENT SUPPLIER) TO BE LOCATED OUTSIDE OFFICE 104 (TYPICAL OF 8)

WIRING AND CONDUIT AS REQUIRED TO THREE-POSITION MOMENTARY CONTACT WALL SWITCH (PROVIDED BY EQUIPMENT SUPPLIER) TO BE LOCATED OUTSIDE OFFICE 104 (TYPICAL OF 8)

PARTIAL FLOOR PLAN
SCALE: 1/8"=1'-0"

FOR LAYOUT OF THIS AREA REFER TO DWG. E-05.

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Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 10842, Exp. Date 3-10-08

DES:	85% OWNER REVIEW				1/17/06
	100% SUBMITTAL				
	100% - FINAL BID SET				1-14-08
DRN:					
CHK:					
DATE: 7/14/05	BY	No.	REVISION		DATE

FLOOR PLAN - POWER

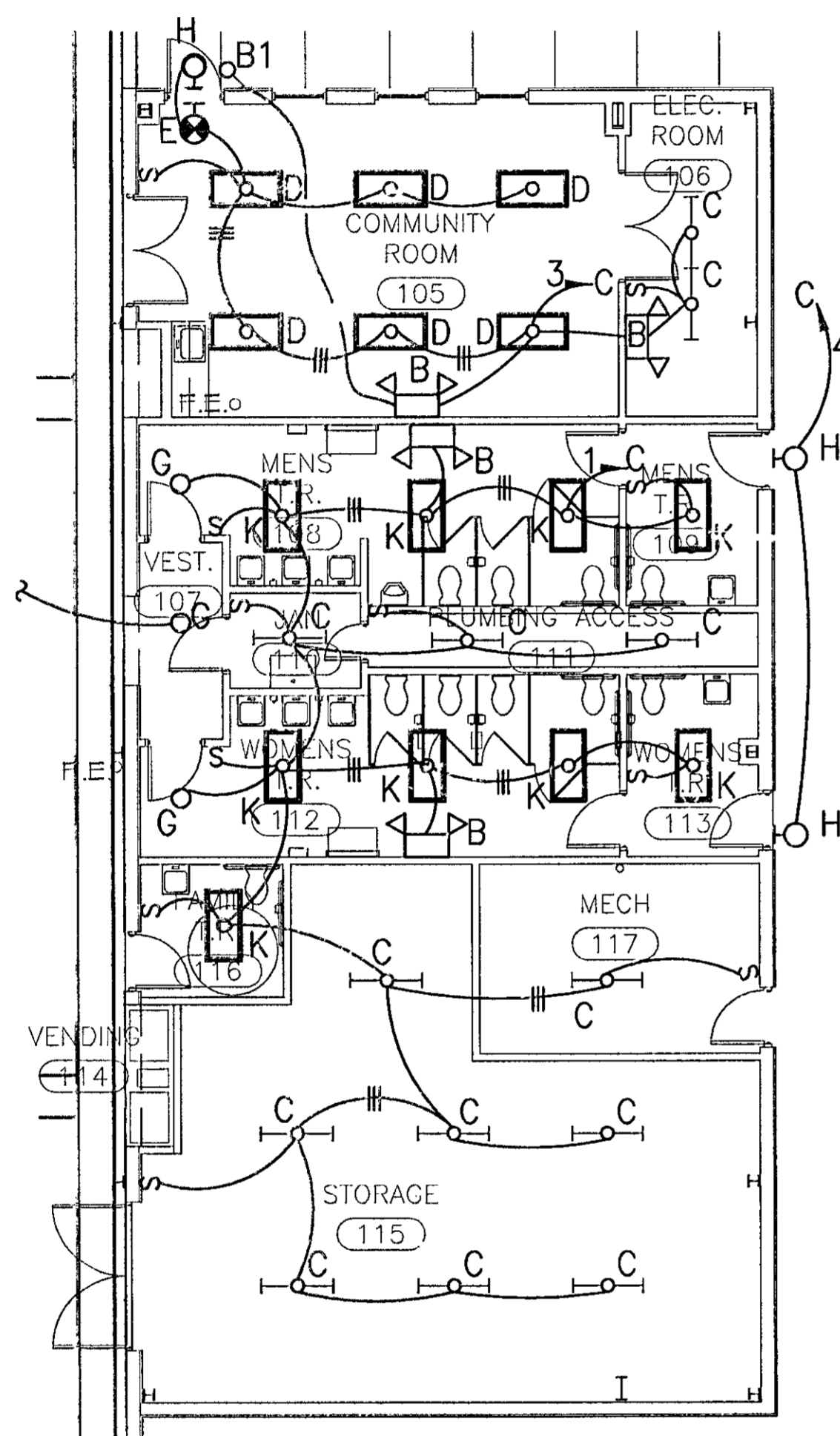
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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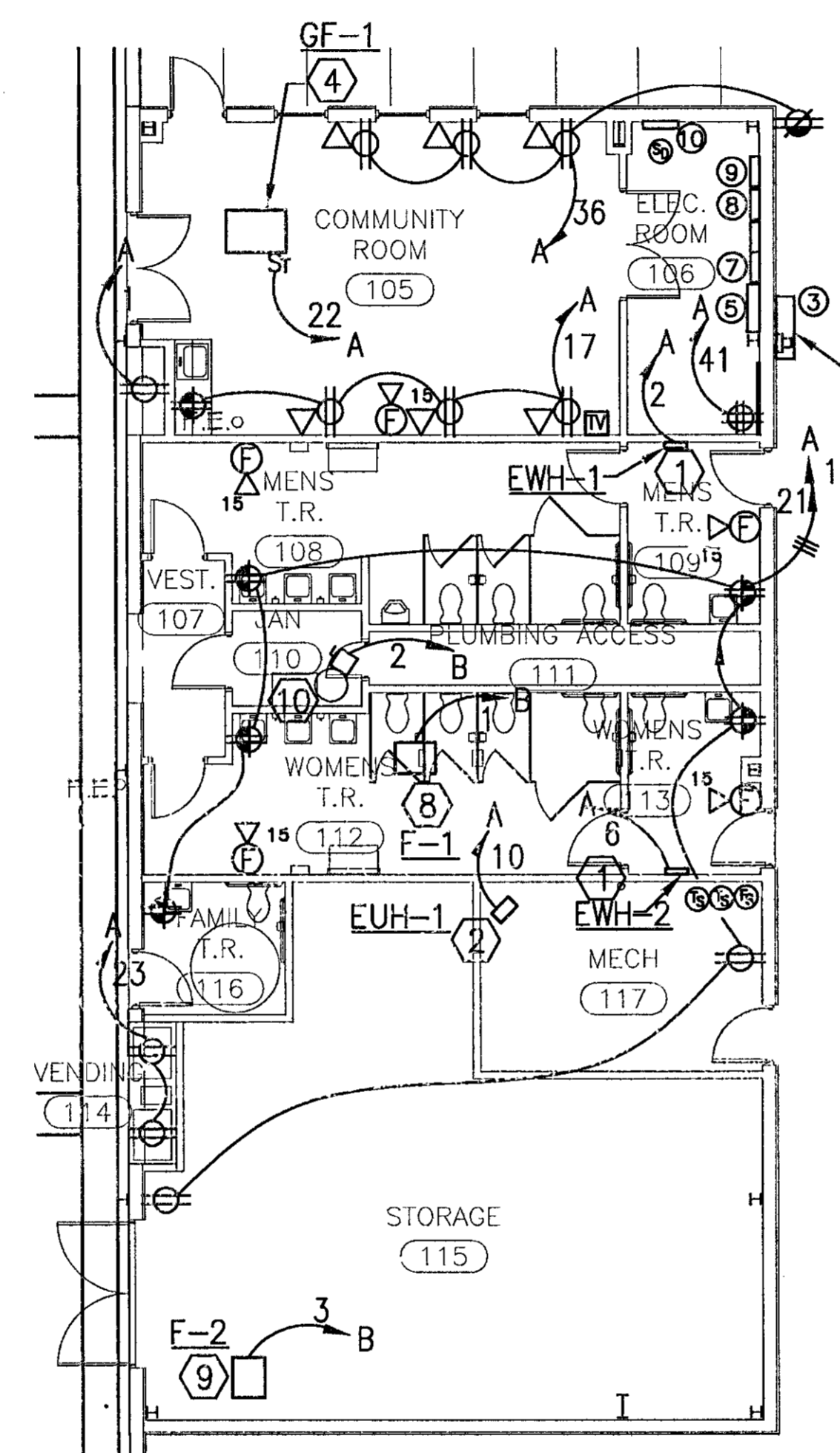
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MRF#04-075 SCALE
3/32"=1'-0"
SHEET
E03

PLT DATE: 10/05/2007

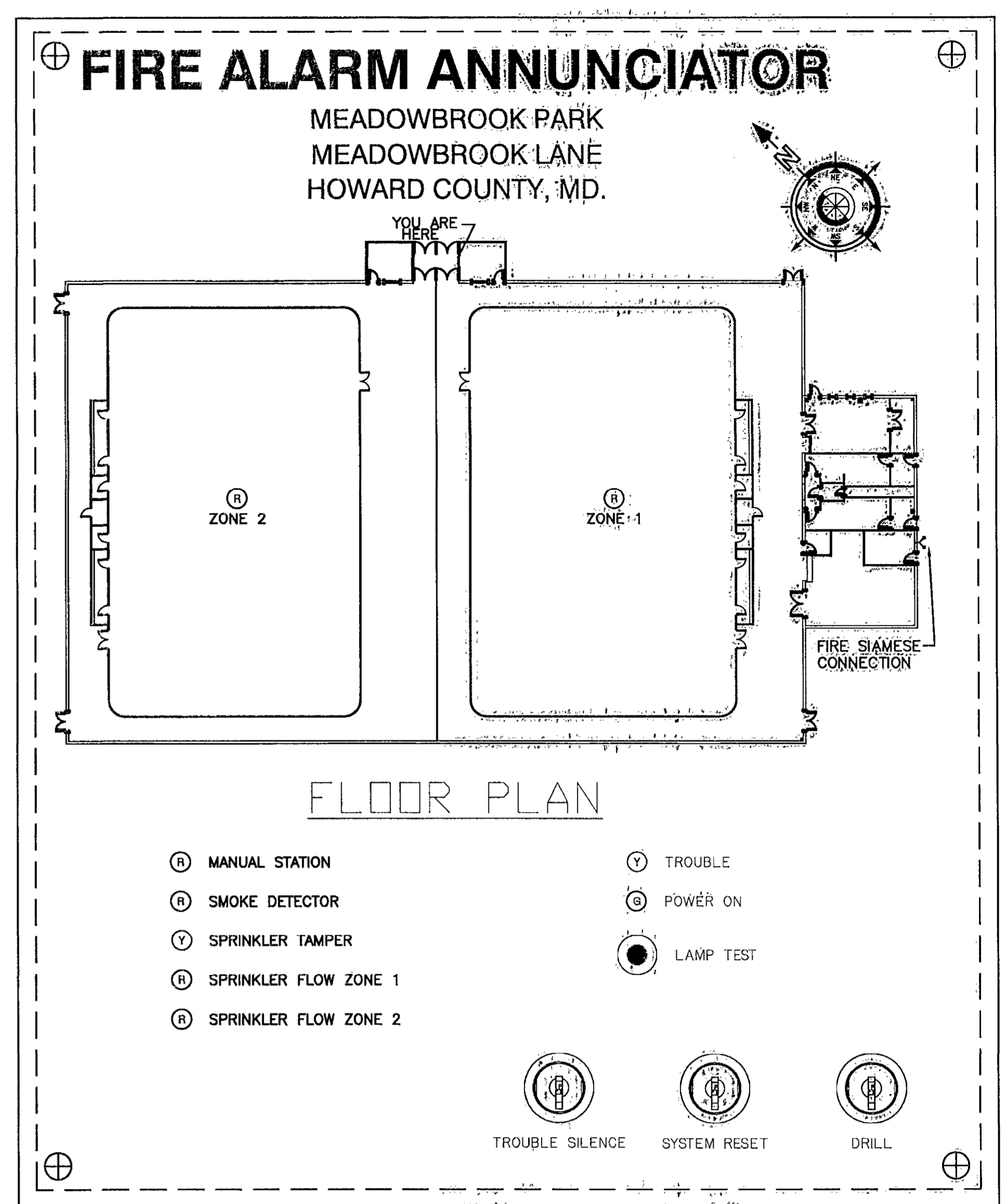


PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"



PARTIAL FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"

PROPOSED ELECTRICAL SERVICE BGE C.T. CABINET METER CLOSET.

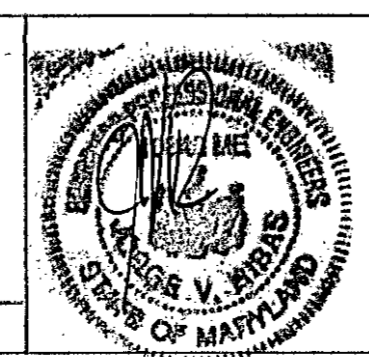


- FLOOR PLAN**
- (M) MANUAL STATION
 - (S) SMOKE DETECTOR
 - (V) SPRINKLER TAMPER
 - (F) SPRINKLER FLOW ZONE 1
 - (F) SPRINKLER FLOW ZONE 2
 - (T) TROUBLE
 - (P) POWER ON
 - (L) LAMP TEST
 - (TS) TROUBLE SILENCE
 - (SR) SYSTEM RESET
 - (DR) DRILL

- FIRE ALARM NOTES**
- ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. FOR EXACT NUMBER OF DEVICES, REFER TO MECHANICAL DRAWINGS.
 - FOR EXACT NUMBER OF DEVICES REFER TO FLOOR PLAN.
 - ENTIRE FIRE ALARM SYSTEM SHALL BE APPROVED BY HOWARD COUNTY FIRE PREVENTION DEPARTMENT PRIOR TO ROUGH-IN.
 - WIRING SHALL BE AS PER MANUFACTURER RECOMMENDATIONS.
 - FOR FLOW & TAMPER SWITCHES SEE PLUMBING DRAWINGS AND CONNECT TO FIRE ALARM SYSTEM.
 - FIRE ALARM ANNUNCIATOR SHALL HAVE AMBER LIGHT NOT TO SET OFF ALARM ON DUCT SMOKE DETECTORS.
 - FIRE ALARM CONTROL PANEL SHALL BE LOCKABLE TYPE.
 - FIRE ALARM SYSTEM QUANTITIES, WIRING SIZES AND ROUTING, ETC. SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE FIRE ALARM SYSTEM MANUFACTURER AS APPROVED BY THE OFFICE OF THE FIRE MARSHAL. NO WIRING SHALL BE SMALLER THAN #14 AWG.
 - NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH THE FIRE ALARM SYSTEM AND ITS AUXILIARY FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM RACEWAYS.
 - ALL FIRE ALARM SYSTEM JUNCTION BOXES, PULL BOXES, ETC. SHALL BE PAINTED RED AND SHALL BE NEATLY STENCILED IN BLACK LETTERS "FIRE ALARM".
 - FURNISH AND INSTALL ALL REQUIRED INTERLOCK WIRING BETWEEN THE FIRE ALARM SYSTEM AND AIR HANDLING EQUIPMENT CONTROLS, DUCT SMOKE DAMPERS AND/OR MOTORIZED DAMPERS AS REQUIRED TO PERFORM AIR HANDLING SYSTEM SHUT-DOWN FUNCTIONS AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR AS REQUIRED BY CODE.
 - CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FIRE ALARM DEVICES TO COMPLY WITH CODE REQUIREMENTS.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 10846 Expiration Date: 3.10.08

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DES:		85% OWNER REVIEW		1/17/06
		100% SUBMITTAL		
DRN:		100% - FINAL BID SET		1-14-08
CHK:				
DATE: 7/14/05	BY	No.	REVISION	DATE

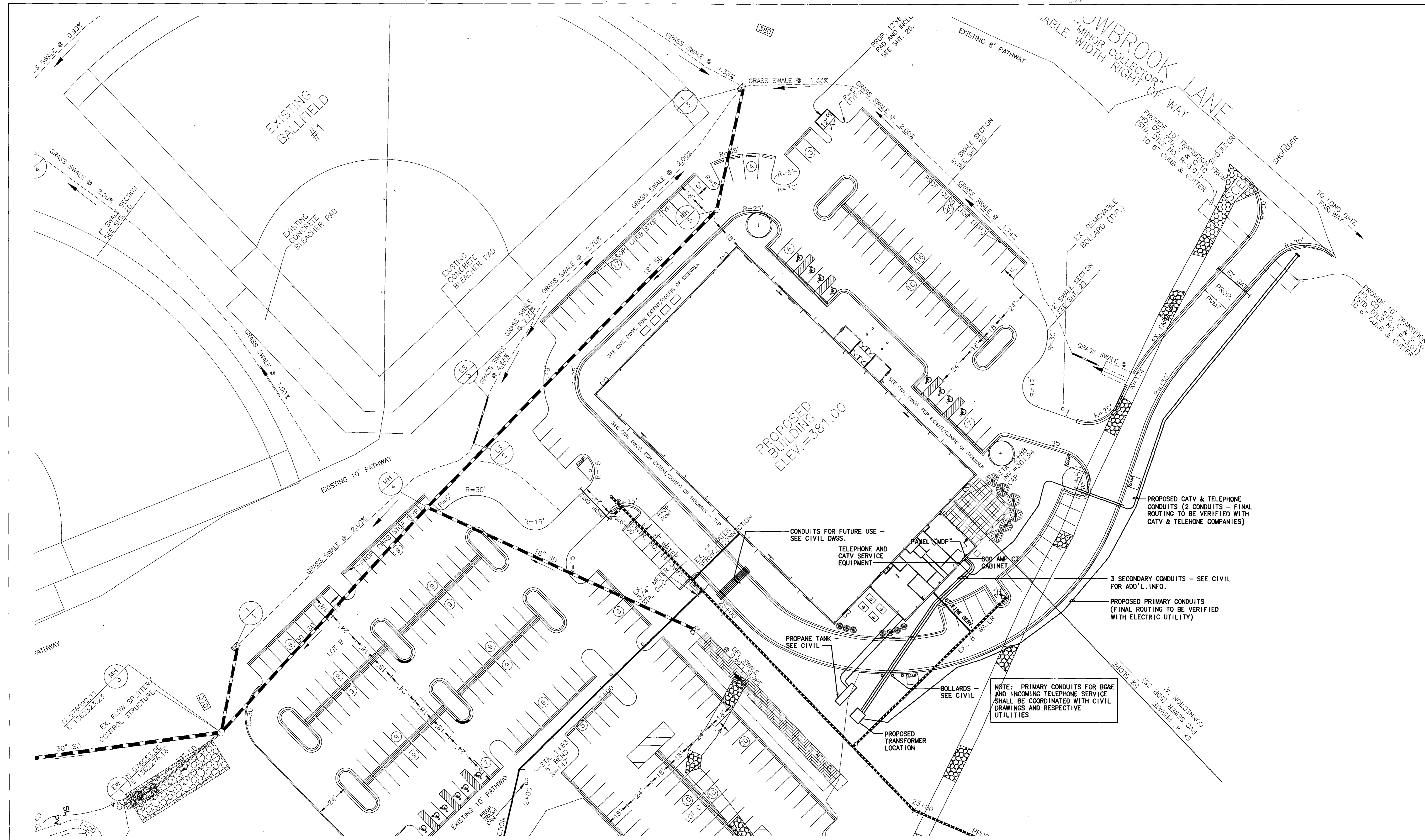
SCHEDULES & FA DETAILS
MEADOWBROOK SPORTS CENTER
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MSF-P04-015 SCALE
N.A. SHEET
E05

PLOT DATE: 11/21/2006



SITE PLAN - ELECTRICAL
SCALE: 1"=30'-0"

PLOT DATE: 11/27/2006

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
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DES:		85% OWNER REVIEW	1/17/06
		100% SUBMITTAL	1-14-08
DRN:		100% FINAL BID SET	
CHK:			
DATE: 7/14/05	BY: No.	REVISION	DATE

ELECTRICAL SITE PLAN
MEADOWBROOK SPORTS CENTER
HOWARD COUNTY DEPT. OF RECREATION AND PARKS

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MRF#04-075
SCALE: AS SHOWN SHEET
E06