

HAZARDOUS MATERIALS - GENERAL NOTES

- HAZARDOUS MATERIALS ARE SHOWN ON PLANS AS ADVISORY TO THE CONDITIONS PRESENT. REFER TO REQUIRED PROJECT WORK AND DEMOLITION PLANS TO DETERMINE IF HAZARDS NEED DISTURBED OR REMOVED.
- LOCATIONS AND QUANTITIES OF HAZARDOUS MATERIALS (HM) WILL IMPACT THE WORK TO BE COMPLETED, AS SHOWN IN THE DRAWINGS. CONTRACTOR IS TO COORDINATE ALL HAZARDOUS MATERIALS PLAN INFORMATION WITH ALL SUBCONTRACTORS..
- HIDDEN HAZARDS MAY BE FOUND DURING THIS PROJECT. HIDDEN HAZARDS SHALL BE ADDRESSED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS..
- THESE HM DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL EXISTING CONDITIONS THAT HAVE AN EFFECT ON WORK TO BE COMPLETED UNDER THIS PROJECT. CONTRACTOR IS TO INSPECT AND VERIFY EXISTING CONDITIONS AND ALL WORK TO BE COMPLETED PRIOR TO BIDDING.
- CONTRACTOR IS RESPONSIBLE FOR INDEPENDENT THIRD PARTY MONITORING, AGGRESSIVE TEM CLEARANCE SAMPLING AND UPDATE OF AHERA MANAGEMENT PLAN (AMP) AND RESPONSE ACTION REPORT (RAR) AS REQUIRED FOR ALL ABATEMENT ACTIVITY.
- DRAWING DEPICTS BULK SAMPLING SURVEY LOCATIONS OF SUSPECT HAZARDOUS MATERIALS OBSERVED DURING ASSESSMENT. A COMPLETE TABLE OF LABORATORY RESULTS FOR EACH SAMPLE NOTED ON DRAWINGS CAN BE FOUND AT THE END OF THE SPECIFICATIONS OF ATTACHED PROJECT DOCUMENTS.

HAZARDOUS MATERIALS - SHEET NOTES

- REMOVE AND DISPOSE OF ASBESTOS CONTAINING FLOOR TILE AND MASTIC. SEE ARCHITECTURAL AND MECHANICAL DEMO PLANS.
- REMOVE AND DISPOSE OF ALL GYPSUM WALLBOARD CONTAMINATED WITH ACM JOINT COMPOUND OFF WALLS AND CEILING FRAMING. SEE ARCHITECTURAL DEMO PLANS.
- DEMO GYPSUM WALLBOARD WALLS WITH ASBESTOS CONTAINING JOINT COMPOUND – SEE ARCHITECTURAL DEMO PLANS.
- DEMO ACOUSTICAL CEILING TILE AND MASTIC. DISTURB GYPSUM WALLBOARD WITH ASBESTOS CONTAINING JOINT COMPOUND ONLY AS NECESSARY TO ACCOMPLISH WORK. SEE ARCHITECTURAL & ELECTRICAL DEMO PLANS.
- CUT AND PATCH GYPSUM WALLBOARD CEILINGS WITH ASBESTOS CONTAINING JOINT COMPOUND ONLY AS NECESSARY TO COMPLETE THE WORK – SEE MECHANICAL & ELECTRICAL DEMO PLANS.
- CUT AND PATCH GYPSUM WALLBOARD WALLS AND CEILINGS WITH ASBESTOS CONTAINING JOINT COMPOUND ONLY AS NECESSARY TO COMPLETE THE WORK – SEE ARCHITECTURAL, MECHANICAL & ELECTRICAL PLANS.
- REMOVE AND DISPOSE OF LEAD–BASED PAINTED CONVECTORS ATTACHED TO GYPSUM WALLBOARD WALLS WITH ASBESTOS CONTAINING JOINT COMPOUND. SEE ARCHITECTURAL & MECHANICAL DEMO PLANS.
- REMOVE AND DISPOSE OF STAINLESS STEEL SINK WITH ASBESTOS CONTAINING SOUND DEADENING UNDERCOATING. SEE ARCHITECTURAL DEMO PLANS.
- REMOVE AND DISPOSE OF LEAD–BASED ENAMELED SINK. REMOVE AND DISPOSE OF LEAD CONTAINING VICTAULIC PIPE CONNECTORS AND PIPING AS NECESSARY TO COMPLETE THE WORK. SEE ARCHITECTURAL DEMO PLANS.
- REMOVE AND DISPOSE OF CERAMIC TILE CONTAINING LEAD–BASED GLAZING. SEE ARCHITECTURAL DEMO PLANS.
- CUT AND PATCH GYPSUM WALLBOARD WALL AS NECESSARY TO ACCOMMODATE NEW WORK. SEE ARCHITECTURAL DEMO PLANS.
- REMOVE AND DISPOSE OF EMERGENCY LIGHTS WITH LEAD–ACID BATTERIES.
- REMOVE AND DISPOSE OF ELEVATOR DOOR WITH LEAD–BASED PAINT. SEE ARCHITECTURAL DEMO PLANS.
- REMOVE AND DISPOSE OF LEAD–CONTAINING BLACK BOARDS, WHITE BOARDS, AND/OR SYNTHETIC CORK BOARDS AS NECESSARY TO ACCOMMODATE WORK. SEE ARCHITECTURAL DEMO PLANS.
- ALL ORIGINAL AHU DUCTWORK IN MECHANICAL ROOMS AND THROUGHOUT SCHOOL HAS ASBESTOS–CONTAINING DUCT TAPE APPLIED AT SEAMS. SEE MECHANICAL PLANS FOR DETERMINATION OF EXTENT OF DUCTWORK TO BE DISTURBED, REMOVED, AND/OR REPLACED TO ACCOMMODATE PROJECT WORK.
- REMOVE AND DISPOSE OF PIPE WITH ASBESTOS CONTAINING PIPE INSULATION CONCEALED WITHIN WALL TO BE DEMOLISHED, OR REMOVE AND DISPOSE OF PIPE WITH ASBESTOS CONTAINING PIPE INSULATION AS NECESSARY TO COMPLETE PLUMBING WORK. QUANTITY OF POTENTIAL ACM PIPE INSULATION IS UNKNOWN.
- CUT AND PATCH FLOOR CONTAINING ACM FLOOR TILE AND ACM MASTIC AS NECESSARY TO ACCOMMODATE MECHANICAL SOG REMOVAL FOR WASTE CONNECTION.

ASBESTOS CONTAINING MATERIALS (ACM)

THE FOLLOWING ASBESTOS CONTAINING MATERIALS (ACM) HAVE BEEN IDENTIFIED IN THE PROJECT AREAS THAT MAY BE DISTURBED BY DEMOLITION AND RENOVATION ACTIVITIES.





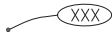

- ACM PIPE INSULATION ON PIPE RUNS AND PIPE JOINTS CONCEALED ABOVE CEILING SPACES AND INSIDE WALLS THROUGHOUT SCHOOL.
- FLOOR TILE WITH BLACK MASTIC AND RESIDUAL BLACK FLOOR MASTICS FROM PREVIOUS ACM FLOORING REMOVED. RESIDUAL BLACK FLOORING MASTIC MAY EXIST BENEATH NEWER FLOORING IN VARIOUS QUANTITIES BUT OBSERVED MOSTLY AS HEAVY STAINING. ALL FLOOR TILE AND FLOOR TILE MASTIC THROUGHOUT SCHOOL CONTAINS ASBESTOS.
- ACM DUCT TAPE EXISTS ON ALL ORIGINAL AHU DUCTWORK COMPONENTS IN MECHANICAL ROOMS AND ASSUMED ON ORIGINAL DUCTWORK THROUGHOUT SCHOOL.
- GYPSUM WALLBOARD WITH ASBESTOS–CONTAINING JOINT COMPOUND. ASSUME ALL GYPSUM WALLBOARD (CEILINGS & WALLS) THROUGHOUT ENTIRE SCHOOL CONTAMINATED WITH ASBESTOS–CONTAINING JOINT COMPOUND.

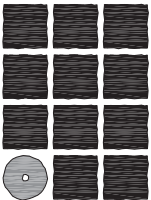
LEAD CONTAINING MATERIALS (LCM)

THE FOLLOWING LEAD CONTAINING MATERIALS (LCM) HAVE BEEN IDENTIFIED IN THE PROJECT AREAS THAT MAY BE DISTURBED BY DEMOLITION AND RENOVATION ACTIVITIES.

- VICTAULIC PIPE CONNECTORS CONCEALED WITHIN WALLS AND ABOVE CEILINGS THROUGHOUT SCHOOL.
- ELEVATOR DOORS WITH LEAD BASED PAINT. EACH FLOOR LEVEL.
- SOUTH WALL AND CONVECTOR WITH LEAD BASED PAINT. ROOM 229.
- CERAMIC TILE WITH LEAD–BASED GLAZING. BOYS AND GIRLS RESTROOMS, FIRST FLOOR AND SECOND FLOOR.
- LEAD–BASED ENAMELED SINKS IN JANITOR ROOMS AND WHEREVER ELSE ENCOUNTERED THROUGHOUT PROJECT AREA.
- LEAD CONTAINING BLACK BOARDS, WHITE BOARDS AND SYNTHETIC CORK BOARDS IN SOUTH CLASSROOMS WITHIN PROJECT AREA.

LEGEND

- HAZARDOUS MATERIAL SHEET NOTE INDICATOR. SEE SHEET H100, HAZARDOUS MATERIAL SHEET NOTES, FOR INTERPRETATION.
- CERAMIC TILE WITH LEAD–BASED GLAZING TO BE REMOVED – WALLS & FLOORS
- EMERGENCY LIGHT WITH LEAD–ACID BATTERIES TO BE REMOVED
- STAINLESS STEEL SINK WITH ACM UNDERCOATING TO BE REMOVED
- ASBESTOS SAMPLE LOCATIONS – NEGATIVE (<1% ASBESTOS)
- ASBESTOS SAMPLE LOCATIONS – POSITIVE (≥ 1% ASBESTOS)



Jensen
Yorba
Lott
Inc.

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com



CITY & BOROUGH OF JUNEAU
MARIE DRAKE SCHOOL
RENOVATION
Juneau, Alaska

REVISIONS

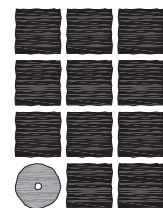
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SHEET TITLE

GENERAL NOTES
SHEET NOTES - LEGEND
HAZARDOUS
MATERIALS

DATE: MARCH 2012
FILE: 11078

H100



**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com



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RENOVATION**
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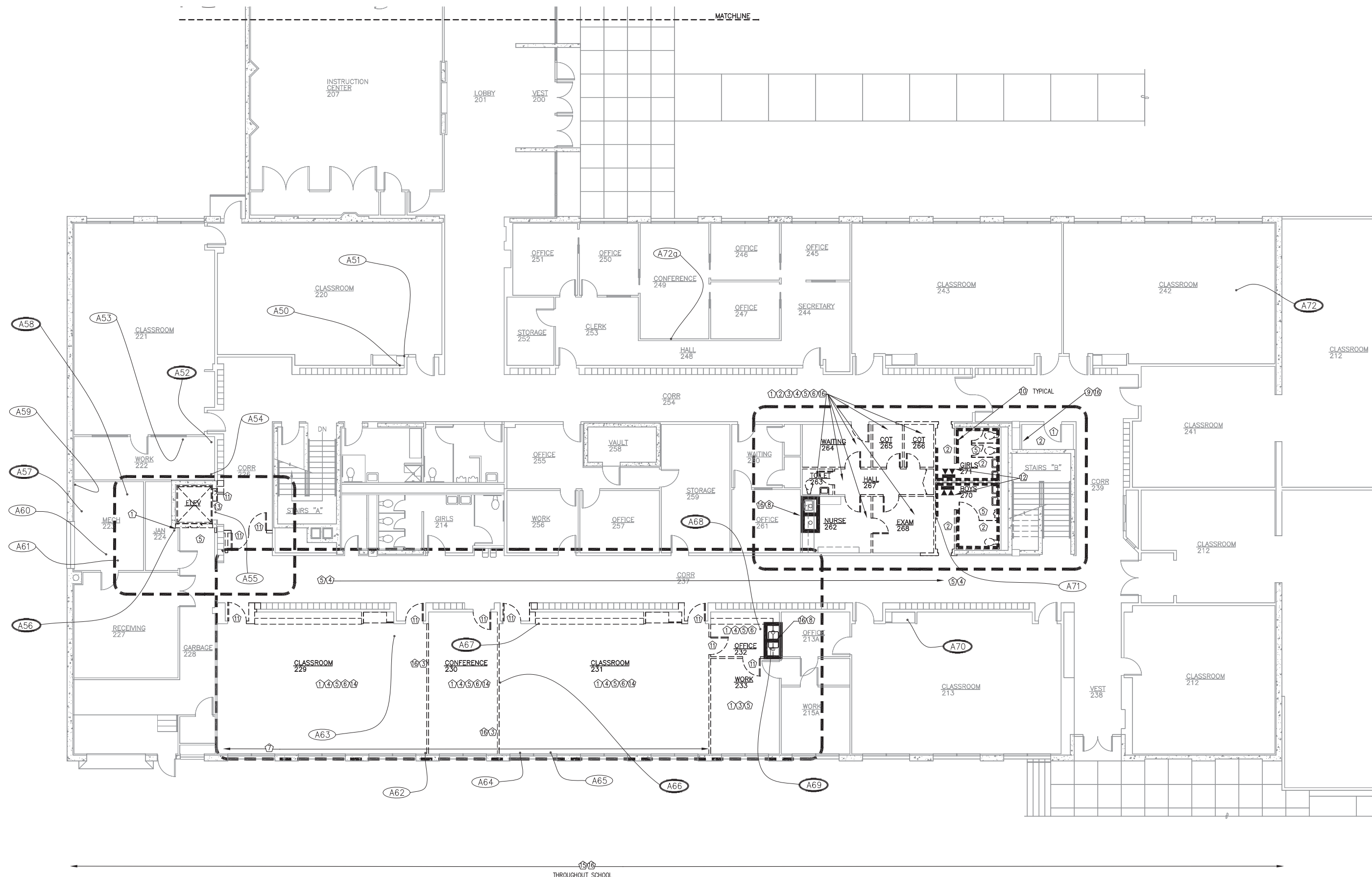


SHEET TITLE

**MAIN FLOOR 1A
HAZARDOUS
MATERIALS PLAN**

DATE: MARCH 2012
FILE: 11078

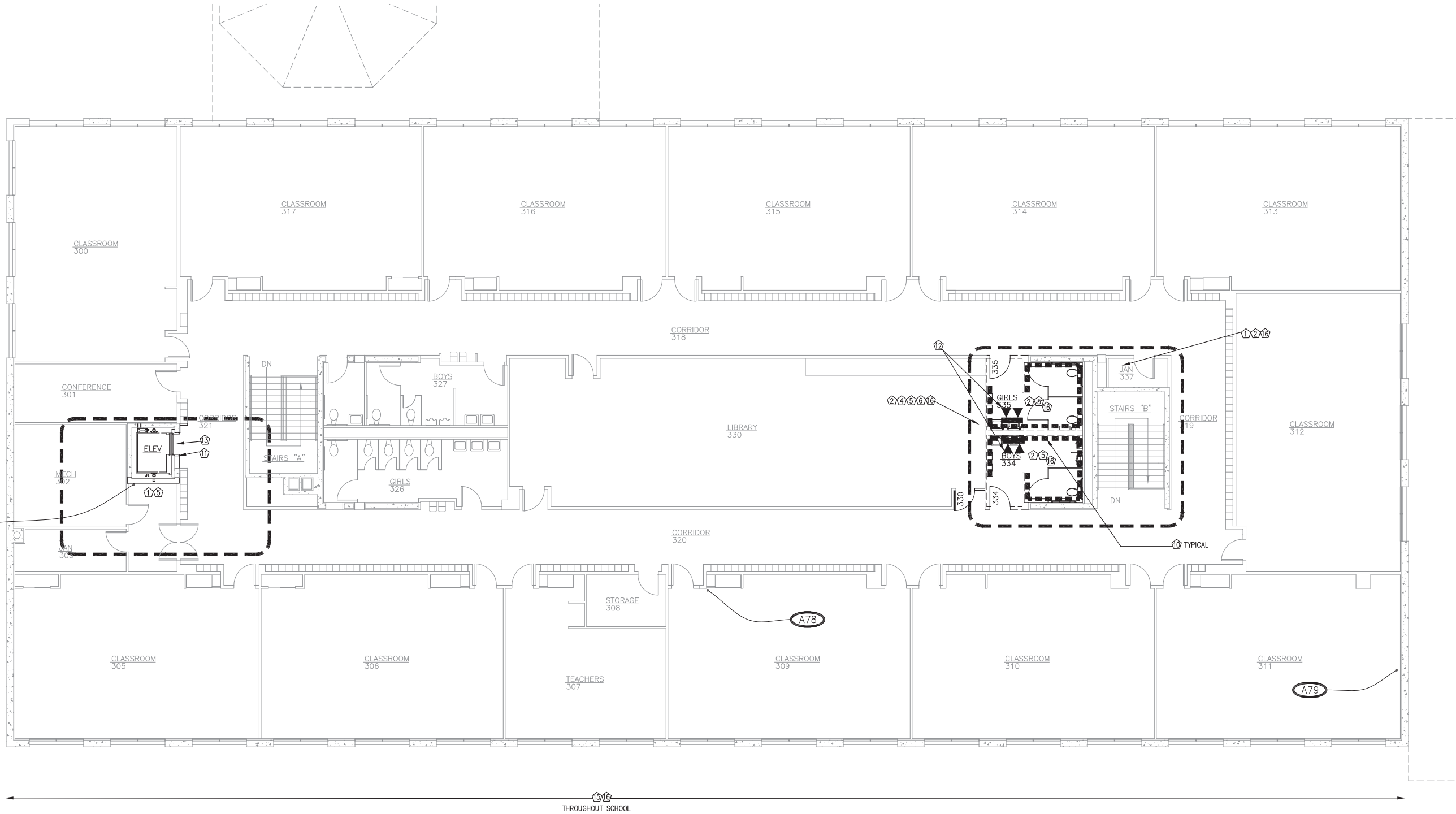
H102



1 MAIN FLOOR 1A DEMOLITION - HAZARDOUS MATERIALS PLAN

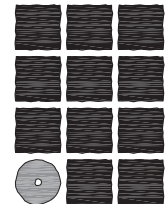
SCALE: 0 4' 8' 16'





1 SECOND FLOOR DEMOLITION - HAZARDOUS MATERIALS PLAN

SCALE: 0 4' 8' 16'



**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com



**CITY & BOROUGH OF JUNEAU
MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

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SHEET TITLE
**SECOND FLOOR
HAZARDOUS
MATERIALS PLAN**

DATE: MARCH 2012
FILE: 11078

H103

ABBREVIATIONS

(A)	ABOVE	FD	FLOOR DRAIN	P/C	PRECAST
AB	ANCHOR BOLT	FDN	FOUNDATION	PERP OR	PERPENDICULAR
A/C	ASPHALTIC CONCRETE	FIN	FINISH, FINISHED	P/J	PLATE (STEEL), PROPERTY LINE
ACI	AMERICAN CONCRETE INSTITUTE	FF	FINISHED FLOOR, FAR FACE	PL	PLATE (WOOD)
ADDL	ADDITIONAL	FLG	FLANGE	PLCS	PLACES
AGGR	AGGREGATE	FLR	FLOOR	PLWD	PLYWOOD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FLASH	FLASHING	PP	PARTIAL PENETRATION
AISI	AMERICAN IRON AND STEEL INSTITUTE	FOS	FACE OF STUDS	P/S	PRESTRESSED
ATC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	FP	FIREPROOF, FULL PENETRATION	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FS	FAR SIDE	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	FT OR *	FOOT, FEET	PT	PRESSURE TREATED
ARCH	ARCHITECT, ARCHITECTURAL	FTG	FOOTING	P/T	POST TENSION
@	AT	FUT	FUTURE	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATELY	FV	FIELD VERIFY	PVMT	PAVEMENT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	GA	GAUGE, GAGE	R	RADIUS
ASPH	ASPHALT	GALV	GALVANIZED	RD	ROOF DRAIN, ROUND
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL	GEN	GENERAL	O	ROUND
AWS	AMERICAN WELDING SOCIETY	GIRD	GIRDER	REF	REFERENCE
&	AND	GL	GLUE LAMINATED	REINF	REINFORCING, REINFORCEMENT,
		GND	GROUND		REINFORCED
		GR	GRADE	REQD	REQUIRED
		GWB	GYP SUM WALL BOARD	RO	ROUGH OPENING
		GYP	GYP SUM		
(B)	BELOW			S	AMERICAN STANDARD STEEL SHAPE,
B	BOTTOM (BEAM AND JOIST SCHEDULES ONLY)	HEF	HORIZONTAL EACH FACE		SOUTH
BD	BOARD	HORIZ	HORIZONTAL	SCHED	SCHEDULE
BITUM	BITUMINOUS	HP	HIGH POINT, HP STEEL SHAPE	SEC-	SECTION
BLDG	BUILDING LINE	HSB	HIGH STRENGTH BOLT	SH	SHEAR PLATE
BLK	BLOCK	HSS	HOLLOW STRUCTURAL SECTION	SHT	SHEET
BLKG	BLOCKING	HT	HEIGHT	SHTG	SHEETING
BOD	BOTTOM OF DECK			SIM	SIMILAR
BM	BEAM	IBC	INTERNATIONAL BUILDING CODE	SIP	STRUCTURAL INSULATED PANEL
BOT	BOTTOM	ID	INSIDE DIAMETER	SLBB	SHORT LEGS BACK TO BACK
BRG	BEARING	IE	INVERT ELEVATION	SP	SPIRAL
BSMT	BASEMENT	IN OR *	INSIDE FACE	SPA	SPACE, SPACING
BTWN	BETWEEN	INCL	INCLUDE		SPACES
		INSUL	INSULATION, INSULATED, INSULATE	SPEC	SPECIFICATION
		INT	INTERIOR	SQ	SQUARE
C	AMERICAN CHANNELS			SS	STAINLESS STEEL
CB	CATCH BASIN			SSL	SHORT SLOTTED HOLE
CG	CENTER OF GRAVITY	JT	JOINT	ST	STRUCTURAL T FROM S SERIES SECTION
CJ	CONSTRUCTION JOINT	JST	JOIST	STA	STATION
CIP	CAST-IN-PLACE			STD	STANDARD
*	CENTER LINE	K	KIP, KIPS	STIFF	STIFFENED
CJP	COMPLETE JOINT PENETRATION	KSI	KIPS PER SQUARE INCH	STIRR	STIRRUP
CLKG	CAULKING			STL	STEEL
CLR	CLEAR	LB OR #	POUND	STRUCT	STRUCTURAL
CMP	CORRUGATED METAL PIPE	LLBB	LONG LEG BACK TO BACK	SUP	STRUCTURAL USE PANEL
CMU	CONCRETE MASONRY UNIT	LLH	LONG LESS HORIZONTAL	SUPT	SUPPORT
CO	CLEANOUT, CONCRETE OPENING	LLV	LONG LESS VERTICAL	SUSP	SUSPENDED
COL	COLUMN	LONGIT	LONGITUDINAL	SYMM	SYMMETRICAL
CONC	CONCRETE	LP	LOW POINT		
CONN	CONNECTION	LSL	LONG SLOTTED HOLES	T	TOP
CONSTR	CONSTRUCTION	LT	LIGHT	T&G	TOUNGE AND GROOVE
CONT	CONTINUOUS	LT WT	LIGHT WEIGHT	TEMP	TEMPERATURE, TEMPORARY
CONTR	CONTRACTOR	L	ANGLE	THK	THICK
CTJ, CJ	CONTROL JOINT, CONTRACTION JOINT			THRU	THROUGH
CTR	CENTER	M	MISCELLANEOUS SHAPE	TOC	TOP OF CONCRETE
CTSK	COUNTERSUNK	MAS	MASONRY	TOS	TOP OF STEEL
CU	CUBIC	MATL	MATERIAL	TOW	TOP OF WALL
		MAX	MAXIMUM	TP	TOP OF PAVEMENT
		MC	MISCELLANEOUS CHANNEL SECTION	TRANS	TRANSVERSE
		MECH	MECHANICAL	TS	STRUCTURAL TUBE
		MEMB	MEMBRANE	TYP	TYPICAL
		MFR	MANUFACTURER		
		MFRG	MANUFACTURING	UBC	UNIFORM BUILDING CODE
		MIN	MINIMUM	UL	UNDERWRITERS LABORATORY
		MISC	MISCELLANEOUS	UON	UNLESS OTHERWISE NOTED
		MT	STRUCTURAL TEE FROM M SERIES	UT	ULTRASONIC TEST
			SECTION		
		MTD	MOUNTED		
		MTL	METAL		
				VEF	VERTICAL EACH FACE
		N	NORTH	VERT	VERTICAL
		NF	NEAR FACE	VIF	VERTICAL EACH FACE
		NIC	NOT IN CONTRACT	VOF	VERTICAL OUTSIDE FACE
		No OR #	NUMBER		
		NOM	NOMINAL	W	WEST, W SERIES SECTION
		NS	NEAR SIDE	W/	WITH
		NTS	NOT TO SCALE	W/O	WITHOUT
				WD	WOOD
		OA	OVERALL	WH	WEEP HOLE
		OC	ON CENTER	WP	WATERPROOF, WORK POINT
		OD	OUTSIDE DIAMETER	WPJ	WEAKENED PLANE JOINT
		OF	OUTSIDE FACE	WT	WEIGHT, STRUCTURAL TEE FROM W
		OPNG	OPENING		SERIES SECTION
		OPP	OPPOSITE	WWF	WELDED WIRE FABRIC
		OVS	OVERSIZED		
				YD	YARD

GENERAL NOTES

THE FOLLOWING NOTES APPLY UNLESS INDICATED OTHERWISE:

CODE:

INTERNATIONAL BUILDING CODE, 2009 EDITION.

DESIGN LIVE LOADS:

ROOF PG = 60 PSF, PF = 50 PSF
I = 1.1, CE = 1.0, CT = 1.0

SNOW DRIFT ASCE 7-05, CHAPTER 7

FLOORS UNIFORM 40 PSF, WITH LIVE LOAD REDUCTION

EQUIVALENT LATERAL FLUID PRESSURE BASEMENT WALLS 60 PCF

REINFORCED CONCRETE:

ALL CONCRETE - FC = 3000 PSI, MAXIMUM W/C = 0.50. SUBMIT MIX DESIGN. SEE SPECIFICATIONS FOR ADMIXTURES.

UNLESS OTHERWISE NOTED, REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. PROVIDE CLASS B SPLICE. SUBMIT REINFORCING STEEL SHOP DRAWINGS WITH DETAILS PER ACI 315 MANUAL OF STANDARD PRACTICE.

CONCRETE COVER:

FOOTINGS 3". WALLS 1", EXCEPT 2" AGAINST EARTH. SLABS ON GRADE 1 1/2".

SLABS ON GRADE:

RIGIDLY SUPPORT BARS WITH CONCRETE BLOCKS OR APPROVED ACCESSORIES.

PROVIDE SLAB REINFORCING AS FOLLOWS:
4" SLAB ON GRADE, #3 @ 15" EACH WAY, 1 1/2" FROM TOP,

WALLS:

REINFORCE AS FOLLOWS:
8" WALLS, #5 @ 15" HORIZONTAL AND VERTICAL @ CENTER OF WALL,

AT CORNERS, PROVIDE CORNER BARS IN OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS, 50 DIA. EACH LEG, WHERE POSSIBLE.

PROVIDE 2-#5 LONGITUDINAL BARS AT TOP OF WALLS. PROVIDE ROUGHENED SURFACE AT CONSTRUCTION JOINTS.

PROVIDE VERTICAL DOWELS OF SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS.

DRILL-IN ADHESIVE ANCHORS (DIAA):

"HIT-RE 500-SD" ADHESIVE ANCHOR SYSTEM BY HILTI FASTENING SYSTEMS FOR CONCRETE OR APPROVED EQUAL. ICC-ES CERTIFICATION REQUIRED.

STRUCTURAL STEEL:

ALL STEEL ASTM A36, EXCEPT WIDE FLANGE SECTIONS TO BE ASTM A992, OR A572-50. FABRICATION AND ERECTION PER AISC SPECIFICATIONS. FABRICATOR SHALL PARTICIPATE IN AISC QUALITY CERTIFICATION PROGRAM AND BE DESIGNATED AN AISC CERTIFIED PLANT, CATEGORY STD. SUBMIT SHOP DRAWINGS.

WELDING PER AWS D1.1. MINIMUM SIZE WELDS 3/16" CONTINUOUS FILLET. WELDERS CERTIFIED PER AMERICAN WELDING SOCIETY FOR ROD AND POSITION. ELECTRODES SHALL BE E70XX MINIMUM, WITH MINIMUM CHАРPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20 DEG F.

HIGH-STRENGTH BOLTS PER ASTM A325. TYPICAL BOLTED CONNECTIONS - SNUG TIGHTENED TYPE. TENSION HIGH-STRENGTH BOLTS BY DIRECT TENSION INDICATOR METHOD USING LOAD INDICATOR DEVICES INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

APPLY ONE COAT OF SHOP PAINT TO ALL STEEL.

COLD-FORMED STEEL FRAMING:

GALVANIZED STEEL SHALL BE ASTM A653, FY = 50 KSI, EXCEPT 43 MIL AND LIGHTER SHALL BE FY = 33 KSI. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".

WALL STUDS - 600S162-33.

JOISTS - 600S162-33

SHEATHING:

SHEATHING GRADE - CD EXPOSURE 1 WITH EXTERIOR GLUE LAID FACE GRAIN PERPENDICULAR TO SUPPORT.

ROOF SHEATHING - 3/4" THICK, 48/24 SPAN RATING.
WALL SHEATHING - 1/2" THICK, 32/16 SPAN RATING.

SCREWS AT ALL PANEL EDGES IS AS FOLLOWS:

ROOF SHEATHING - #10 @ 6" OC,
WALL SHEATHING - #10 @ 6" OC.

SCREWS AT ALL PANEL INTERMEDIATE SUPPORTS OTHER THAN STUDS WITH HOLDDOWNS IS AS FOLLOWS:

ROOF SHEATHING - #10 @ 12" OC,
WALL SHEATHING - #10 @ 12" OC.

MISCELLANEOUS:

CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON EITHER SITE OBSERVATION, ORIGINAL DRAWINGS OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF THE EXISTING CONDITIONS DO NOT CLOSELY MATCH THE CONDITIONS SHOWN ON THE DRAWINGS, OR IF THE EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY THE ARCHITECT PRIOR TO COMMENCING ANY WORK.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

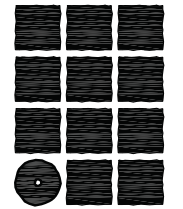
REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF DUCT OPENINGS, PIPING, CONDUITS, ETC, NOT SHOWN.

SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED PRIOR TO FABRICATION.

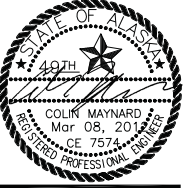
PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

REFER TO SPECIFICATIONS FOR INFORMATION NOT CONTAINED IN THESE GENERAL NOTES.



Jensen
Yorba
Lott
Inc.

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com



BBFM
Engineers Inc.
510 L Street, Suite 200
P.O. Box 91139
Anchorage, AK 99509-1139
Phone: (907) 274-2236 Fax: 274-2520

CITY & BOROUGH OF JUNEAU
MARIE DRAKE
RENOVATION
Juneau, Alaska

REVISIONS



SHEET TITLE

GENERAL
NOTES AND
ABBREVIATIONS

DATE: MARCH 2012

FILE: 11078

S001



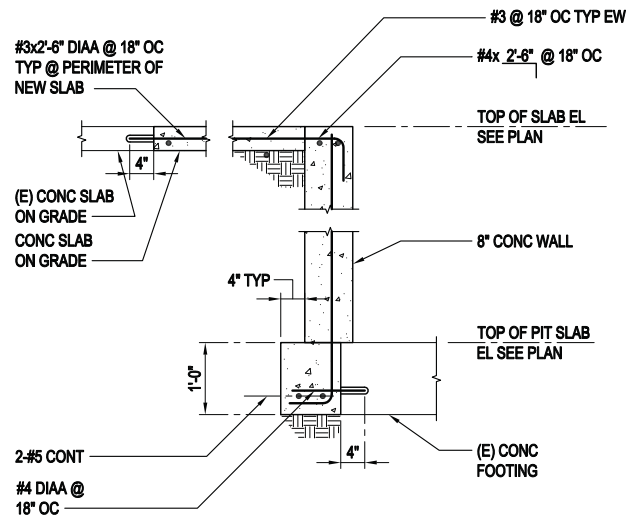
NOTE:
1. TOP OF SLAB ELEVATION IS NOTED THUS: $X'-Y''$

NOTE:
1. TOP OF CONCRETE ELEVATION IS NOTED THUS: X'-Y"

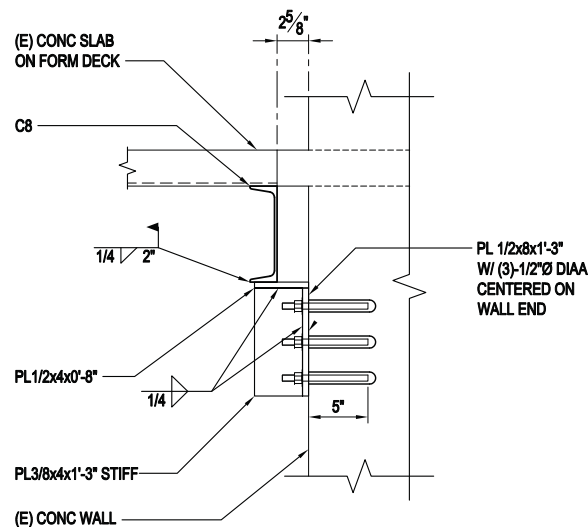
NOTES:

1. TOP OF CONCRETE ELEVATION VARIES. ELEVATION OF TOP OF CONCRETE IS NOTED THUS: (X'-Y')
2. SEE ARCHITECT FOR DEMOLITION OF EXISTING ELEVATOR ROOF SLAB.

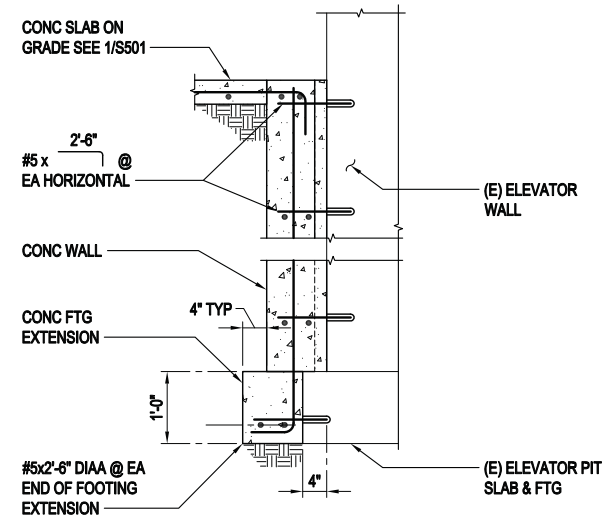
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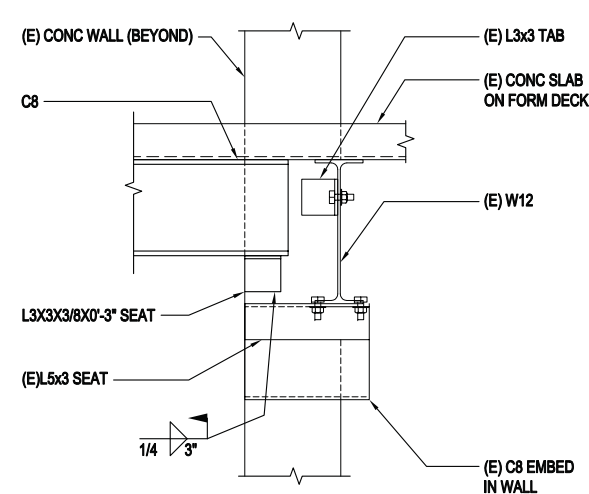
1 ELEVATOR PIT WALL
SCALE: 3/4" = 1'-0"



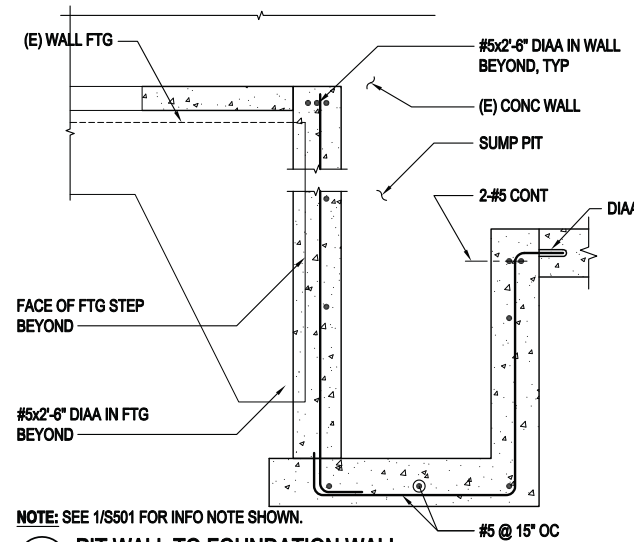
5 SLAB REINF @ ELEVATOR SHAFT
SCALE: 1-1/2" = 1'-0"



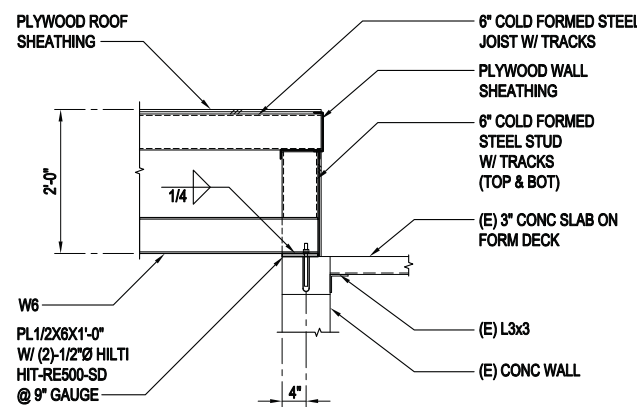
2 PIT WALL TO (E) PIT WALL
SCALE: 3/4" = 1'-0"



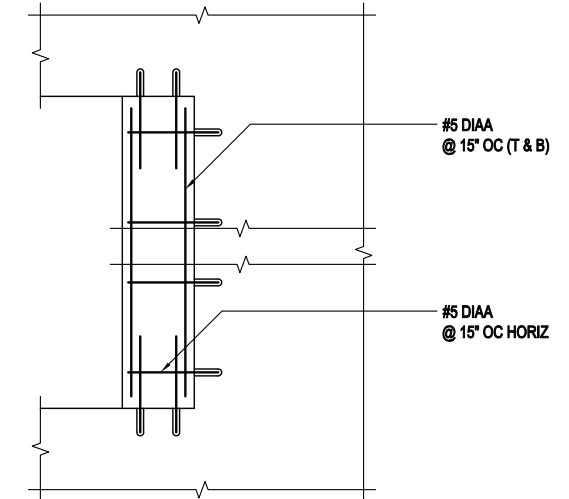
6 C8 TO W BEAM
SCALE: 1-1/2" = 1'-0"



3 PIT WALL TO FOUNDATION WALL
SCALE: 3/4" = 1'-0"



7 ELEVATOR SHAFT LID
SCALE: 1-1/2" = 1'-0"



4 CONCRETE INFILL
SCALE: 3/4" = 1'-0"



**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com



**BBFM
Engineers Inc.**
510 L Street, Suite 200
P.O. Box 91139
Anchorage, AK 99509-1139
Phone: (907) 274-2236 Fax: 274-2520

**CITY & BOROUGH OF JUNEAU
MARIE DRAKE
RENOVATION**
Juneau, Alaska

REVISIONS

△ .
△ .
△ .

SHEET TITLE
DETAILS

DATE: MARCH 2012
FILE: 11078

S501

NUMBER	UNIT SERVED	LOCATION	DESIGN GPM	SEWER SIZE (INCHES)	VALVE TYPE	VALVE OPERATION	NORMAL POSITION	NOTES
1	FP	CLASSROOM 229	1.1	3/4	2-WAY	ON-OFF	N.O.	-
2	FP	CLASSROOM 230	1.1	3/4	2-WAY	ON-OFF	N.O.	-
3	FP	CLASSROOM 231	1.1	3/4	2-WAY	ON-OFF	N.O.	-
4	FP	CLASSROOM 232	1.1	3/4	2-WAY	ON-OFF	N.O.	-

EQUIPMENT	DESIGN MANUFACTURER	MODEL	CONTROLS/OPTIONS
FINNED PIPE, FP-1	RITTLING	FS-5	SINGLE-TIER, 1090 BTU/HR/FT WATER RATING AT AVERAGE 180°F WATER TEMP., 65" EAT, 3 FPS WATER VELOCITY. 1" STEEL TUBE WITH 4-1/4 X 4-1/4 ALUMINUM FINNS. MAXIMUM 40 FPF. IBR RATED. 14" HIGH SLOPING TOP, WALL-MOUNTED CABINET. ACCESS DOORS AT ALL VALVES. FINISH COLOR SELECTED BY ARCHITECT.

PUMP NUMBER	FUNCTION	GALLONS PER MINUTE (GPM)	HEAD DEVELOPED (FT. OF WATER)	DESIGN MANUFACTURER AND MODEL	MINIMUM HORSEPOWER ELECTRICAL CHARACTERISTICS	FEATURES
SP-1	ELEVATOR SUMP PUMP	50	25	B&G	1/2 HP, 120V SINGLE PHASE	SUBMERSIBLE SUMP PUMP.

EQUIPMENT	DESIGN MANUFACTURER	OPTIONS/TRIM
WATER CLOSET, WC-1	KOHLER, KINGSTON	WALL HUNG, SIPHON JET VITREOUS CHINA CLOSET BOWL, WITH ELONGATED RIM, 1-1/2 INCH TOP SPUD, CHINA BOLT CAPS. EXPOSED MANUAL DUAL FLUSH VALVE: ASME A112.18.1; EXPOSED POLISHED CHROME, DIAPHRAGM TYPE, WITH SCREWDRIIVER STOP AND VACUUM BREAKER; MAXIMUM 1.6 GALLON FLUSH VOLUME. ADA COMPLIANT, SIMILAR TO ZURN Z-6000 SERIES. SEAT: SOLID PLASTIC, ELONGATED, OPEN FRONT, EXTENDED BACK, SELF-SUSTAINING HINGE, BRASS BOLTS, WITHOUT COVER. WALL MOUNTED CARRIER: ASME A112.6.1; ADJUSTABLE CAST IRON FRAME, INTEGRAL DRAIN HUB AND VENT, ADJUSTABLE SPUD, LUGS FOR FLOOR AND WALL ATTACHMENT, THREADED FIXTURE STUDS WITH NUTS AND WASHERS, SUITABLE FOR SPACE PROVIDED. BELL AND SPIGOT TYPE USED ON VERTICAL UNITS AT SLAB-ON-GRADE LOCATIONS. VERTICAL UNITS MAY BE NON-ADJUSTABLE. MOUNT AT ADA HEIGHT.
WATER CLOSET, WC-2	KOHLER, KINGSTON	WALL HUNG, SIPHON JET VITREOUS CHINA CLOSET BOWL, WITH ELONGATED RIM, 1-1/2 INCH TOP SPUD, CHINA BOLT CAPS. EXPOSED MANUAL DUAL FLUSH VALVE: ASME A112.18.1; EXPOSED POLISHED CHROME, DIAPHRAGM TYPE, WITH SCREWDRIIVER STOP AND VACUUM BREAKER; MAXIMUM 1.6 GALLON FLUSH VOLUME. ADA COMPLIANT, SIMILAR TO ZURN Z-6000 SERIES. SEAT: SOLID PLASTIC, ELONGATED, OPEN FRONT, EXTENDED BACK, SELF-SUSTAINING HINGE, BRASS BOLTS, WITHOUT COVER. WALL MOUNTED CARRIER: ASME A112.6.1; ADJUSTABLE CAST IRON FRAME, INTEGRAL DRAIN HUB AND VENT, ADJUSTABLE SPUD, LUGS FOR FLOOR AND WALL ATTACHMENT, THREADED FIXTURE STUDS WITH NUTS AND WASHERS, SUITABLE FOR SPACE PROVIDED. BELL AND SPIGOT TYPE USED ON VERTICAL UNITS AT SLAB-ON-GRADE LOCATIONS. VERTICAL UNITS MAY BE NON-ADJUSTABLE.
URINAL, U-1	KOHLER, BARDON	VITREOUS CHINA, WALL HUNG WASHOUT URINAL WITH SHIELDS, INTEGRAL TRAP, 3/4 INCH TOP SPUD, ELONGATED RIM, REMOVABLE STAINLESS STEEL STRAINER, STEEL SUPPORTING HANGER, ADA APPROVED. MANUAL OPERATED FLUSH VALVE: ASME A112.18.1; EXPOSED CHROME PLATED, DIAPHRAGM TYPE, MAXIMUM 1 GALLON FLUSH VOLUME. SLOAN OPTIMA 186-1. WALL MOUNTED CARRIER: ASME A112.6.1; CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, THREADED FIXTURE STUDS FOR FIXTURE HANGER, BEARING STUDS.
LAVATORY, L-1	KOHLER, GREENWICH	VITREOUS CHINA WALL HUNG BASIN: ASME A112.19.2; VITREOUS CHINA WALL HUNG LAVATORY 20 x 18 INCH MINIMUM, WITH 4 INCH HIGH BACK, DRILLINGS ON 4 INCH CENTERS, RECTANGULAR BASIN WITH SPLASH LIP AND FRONT OVERFLOW. INSULATION SHIELDS ON PLUMBING PIPING FOR ADA COMPLIANCE. SUPPLY FITTING AND FAUCET: ASME A112.18.1; CHROME PLATED SUPPLY FITTING, CHROME PLATED SHORT GOOSENECK FAUCET AND WATER ECONOMY AERATOR WITH MAXIMUM 2.0 GPM FLOW, 4 INCH INDEXED WRIST BLADE HANDLES. ADA COMPLIANT. ACCESSORIES: CHROME PLATED 17-GAGE BRASS P-TRAP WITH CLEAN-OUT PLUG AND ARM WITH ESCUTCHEON. OFFSET WASTE WITH PERFORATED OPEN GRID STRAINER. WHEEL HANDLE STOPS. RIGID SUPPLIES. WALL MOUNTED CARRIER: ASME A112.6.1; CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, LUGS FOR FLOOR AND WALL ATTACHMENT, CONCEALED ARM SUPPORTS, BEARING PLATE AND STUDS.
SERVICE SINK, SS-1	FIAT	POLY STONE MATERIAL, 24"x24"x10" HIGH. STAINLESS STEEL DRAIN BODY, DOME STRAINER, AND LINT BASKET. WALL MOUNTED SERVICE FAUCET WITH VACUUM BREAKER, PAIL HOOK, ADJUSTABLE WALL BRACE, INTEGRAL STOPS, AND 3/4" HOSE THREAD ON OUTLET. PROVIDE OPTIMUM MOP BRACKET AND VINYL BUMPER GUARDS.
SINK, S-1	JUST, ELKAY	SINGLE COMPARTMENT, SELF-RIMMING, FULLY UNDERCOATED, REAR FAUCET LEDGE AND RIGHT BUBBLER LEDGE, PRE-PUNCHED 18 GAGE SS 25"x22"x6" DEEP. GOOSENECK FAUCET. FULLY ADA COMPATIBLE.
SINK, S-2	JUST, ELKAY	SINGLE COMPARTMENT, SELF-RIMMING, LEDGEBACK FULLY UNDERCOATED, PRE-PUNCHED 18 GAGE SS 16"x17"x6" DEEP. FULLY ADA COMPATIBLE. GOOSENECK FAUCET. ADA COMPATIBLE.
FLOOR DRAIN, FD	ZURN, Z-415	GALVANIZED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND ROUND, ADJUSTABLE NICKEL-BRONZE 6 INCH DIAMETER STRAINER WITH SQUARE HOLES. WITH PRIMING LINE CONNECTION. FD 2"



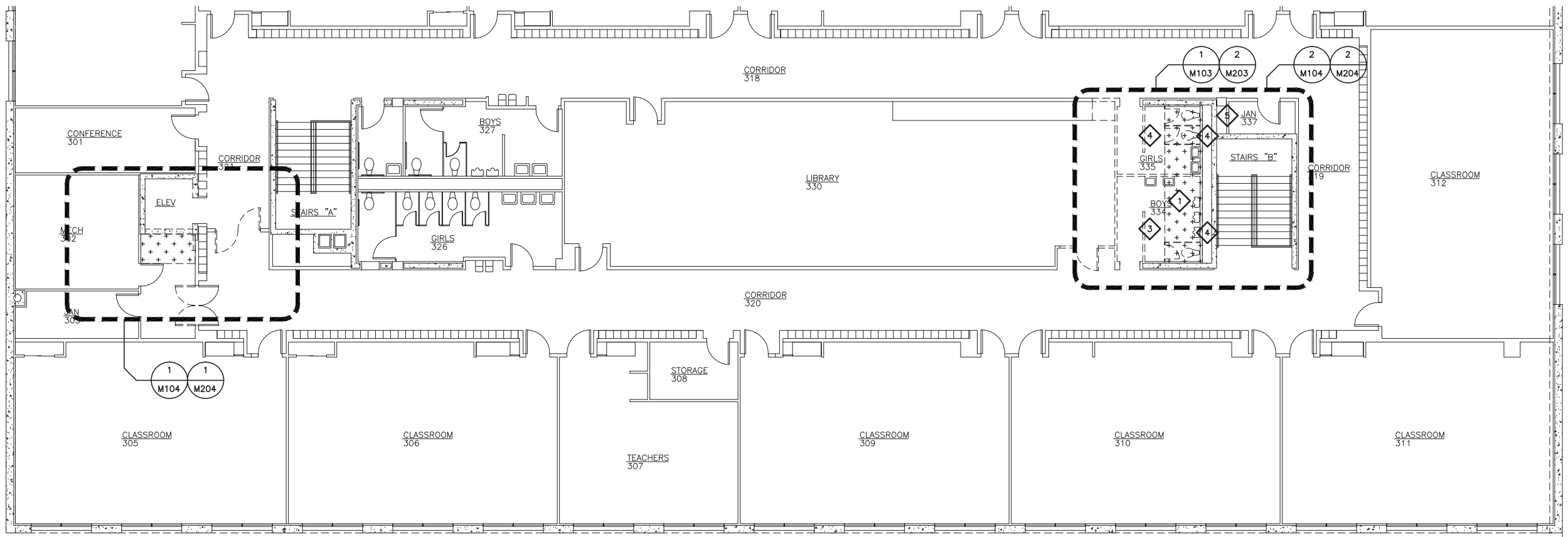
- | | |
|----------|----------------------------|
| AV | AUTOMATIC AIR VENT |
| AFF | ABOVE FINISHED FLOOR |
| AHU | AIR HANDLING UNIT |
| AV | AUTOMATIC VALVE |
| B | BUTTERFLY DAMPER |
| BAS | BUILDING AUTOMATION SYSTEM |
| C | COMMON |
| CFM | CUBIC FEET PER MINUTE |
| CO | CLEANOUT |
| DF | DRINKING FOUNTAIN |
| DU | DIELECTRIC UNION |
| DV | DRAIN VALVE |
| EA | EXHAUST AIR |
| EF | EXHAUST FAN |
| EG | EXHAUST GRILLE |
| EWT | ENTERING WATER TEMPERATURE |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| FHC | FIRE HOSE CABINET |
| FLD | FUSIBLE LINK FIRE DAMPER |
| FP | FINNED PIPE |
| FPF | FINNES PER FOOT |
| FRD | FIRE RATED DAMPER |
| FS | FLOOR SINK |
| HB | HOSE BIBB |
| HC | HEATING COIL |
| IAW | IN ARCHITECTURAL WORK |
| IN | IN ELECTRICAL WORK |
| IEW. EL. | INVERT ELEVATION |
| IPS | IRON PIPE SIZE |
| L | LAVATORY |
| LAT | LEAVING AIR TEMPERATURE |
| LF | LINEAL FEET |
| LWT | LEAVING WATER TEMPERATURE |
| MAV | MANUAL AIR VENT |
| MB | MULTIBLADE DAMPER |
| MBH | 1,000 BTU PER HOUR |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NIM | NOT IN MECHANICAL |
| NO | NORMALLY OPEN |
| O.C. | ON CENTER |
| OSA | OUTSIDE AIR |
| PSI | POUNDS PER SQUARE INCH |
| RA | RETURN AIR |
| RD | ROOF DRAIN/RAIN LEADER |
| RG | RETURN GRILLE |
| RI | ROUGH IN |
| S-1 | SINK |
| S | SPLUTTER |
| SA | SUPPLY AIR |
| SG | SUPPLY GRILLE |
| SS | SERVICE SINK |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| U | URNAL |
| UON | UNLESS OTHERWISE NOTED |
| VA | VALVE ACTUATOR |
| VTR | VENT THROUGH ROOF |
| WC | WATER CLOSET |
| WCO | WALL CLEAN OUT |
| WH | WALL HYDRANT |
| WHA | WATER HAMMER ARRESTOR |
| YCO | YARD CLEANOUT |

1. SEE SPECIFICATIONS FOR COMPLETE INFORMATION.
2. CODES & REGULATIONS: ALL WORK HEREUNDER SHALL BE STRICTLY IN CONFORMANCE WITH APPLICABLE CODES AND REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL FIRE CODE, 2006 INTERNATIONAL MECHANICAL CODE, 2006 UNIFORM PLUMBING CODE, NFPA, AND CBJ MODIFICATIONS INsofar AS MINIMUM REQUIREMENTS ARE CONCERNED, BUT THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN IN CASE THE MINIMUM REQUIREMENTS ARE EXCEEDED. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UL LABEL.

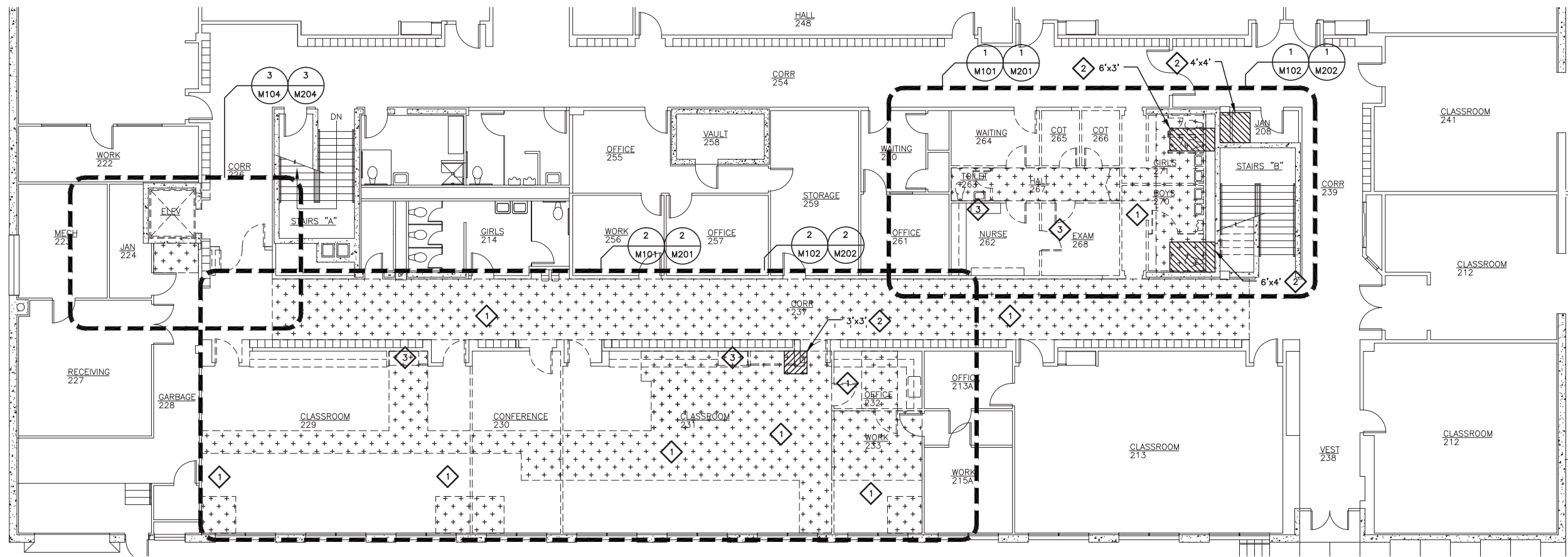
SHEET	TITLE
M001	SYMBOLS & SCHEDULES
M002	OVERALL FLOOR PLANS
M101	MAIN FLOOR PLAN – DEMO PIPING
M102	MAIN FLOOR PLAN – DEMO DUCTWORK
M103	TOILET ROOMS & GYM JAN. 106 PLAN – DEMO PIPING
M104	JAN 224, SECOND & MAIN FLOOR PLAN – DEMO DUCTWORK
M200	BASEMENT FLOOR PLAN
M201	MAIN FLOOR PLAN – PIPING
M202	MAIN FLOOR PLAN – DUCTWORK
M203	JAN 106, MAIN & SECOND FLOOR PLAN – PIPING
M204	JAN 224, SECOND & MAIN FLOOR PLAN – DUCTWORK
M205	MAIN FLOOR PLAN – GYM
M301	PLUMBING DIAGRAMS
M302	PLUMBING DIAGRAMS



M001



2 SECOND FLOOR PLAN - MECHANICAL DEMO



1 MAIN FLOOR PLAN - MECHANICAL DEMO

DEMOLITION NOTES:

- 1 CEILING AND GYPSUM BOARD DEMOLITION AND REPLACEMENT.
- 2 FLOOR DEMOLITION AND REPLACEMENT.
- 3 WALL DEMOLITION AND REPLACEMENT.
- 4 CORE DRILLING OF FLOOR REQUIRED.
- 5 CORE DRILLING IN ALTERNATE WORK.

SHEET NOTES:

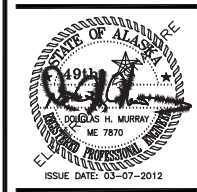
- 1. EXISTING PLANS ARE SHOWN ONLY. DETAIL CALLOUTS REFER TO BOTH DEMOLITION AND NEW WORK.
- 2. COORDINATE ALL DEMOLITION WITH ABATEMENT CONTRACTOR.

Jensen Yorba Lott Inc.

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com

MURRAY & ASSOCIATES, P.C.
CONSULTING ENGINEERS

P.O. BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 780-6151
FAX: 907 780-6182



CITY & BOROUGH OF JUNEAU
MARIE DRAKE SCHOOL
RENOVATION
Juneau, Alaska

REVISIONS

SHEET TITLE
OVERALL FLOOR PLANS

DATE: MARCH 2012
FILE: 11078

M002

1. REMOVE ALL DOMESTIC WATER, WASTE AND VENT PIPING, DUCTWORK AND VENTILATION, AND PLUMBING FIXTURES IN PROJECT AREA. REMOVE BRANCH HEATING PIPING IN PROJECT AREA AS SHOWN.
2. REMOVE ALL SPRINKLER HEADS IN PROJECT AREA, ROOMS 229, 230, 231, 232, AND 233. ABOVE AND BELOW CEILING. NOTE CEILINGS ARE BEING REMOVED IN MUCH OF PROJECT AREA SO SPRINKLER PIPING WILL NEED TO BE TEMPORARILY SUPPORTED OR REMOVED AND REINSTALLED.
3. DOMESTIC HOT WATER MAINS, HW & HWR, ARE EXPOSED BELOW CEILING. SPRINKLER PIPING MAINS ARE EXPOSED BELOW CEILING (NOT SHOWN). DOMESTIC COLD WATER MAINS, VENT PIPING AND HEATING PIPING ARE CONCEALED ABOVE CEILING.
4. COORDINATE ALL DEMOLITION WITH ABATEMENT CONTRACTOR.

- 1 REMOVE SINK, CW, HW, W, & V PIPING. CAP IN WALL AIRTIGHT, FLUSH.
- 2 REMOVE PIPING IN WALL ENTIRELY, CAP WASTE BELOW FLOOR, & VENT ABOVE CEILING.
- 3 REMOVE HEATING UNIT PNEUMATIC THERMOSTAT, AUTOMATIC VALVE & ACTUATOR, ALL TUBING, SUPPORTS. REMOVE TUBING BACK TO CONCEALED LOCATION, CAP AIRTIGHT, LABEL.
- 4 REMOVE GAS VALVES & PIPING IN WALL. CAP ABOVE CEILING, REMOVE ACCESS DOOR.
- 5 RETAIN BRANCH PIPING IN WALL, REMOVE HEATING UNIT AND PIPING UP TO WALL PENETRATION NEAR FLOOR LEVEL.
- 6 REMOVE BRANCH PIPING IN WALL TO ABOVE THE CEILING.
- 7 REMOVE 4"RD FROM 2ND FLOOR TO BELOW GRADE. PREPARE ENDS FOR RECONNECTION.
- 8 REMOVE AND PROTECT DDC THERMOSTAT FOR RELOCATION.
- 9 PROVIDE TEMPORARY SUPPORTS FOR SPRINKLER PIPING WHERE CEILINGS ARE REMOVED.



SCALE: 0 2' 4'



22 West 10th Street
 Anchorage, Alaska 99801
 Phone 907-586-1070
 fax 907-586-3959
sensenyorbalott.com

P O BOX 21081
NEAU, ALASKA 99802
TEL: 907 780-6151
FAX: 907 780-6182



**MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

VISIONS



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E: 11078

M101



MURRAY &
ASSOCIATES, P.C.
CONSULTING ENGINEERS

STATE OF ALASKA
19th
DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 03-07-2012

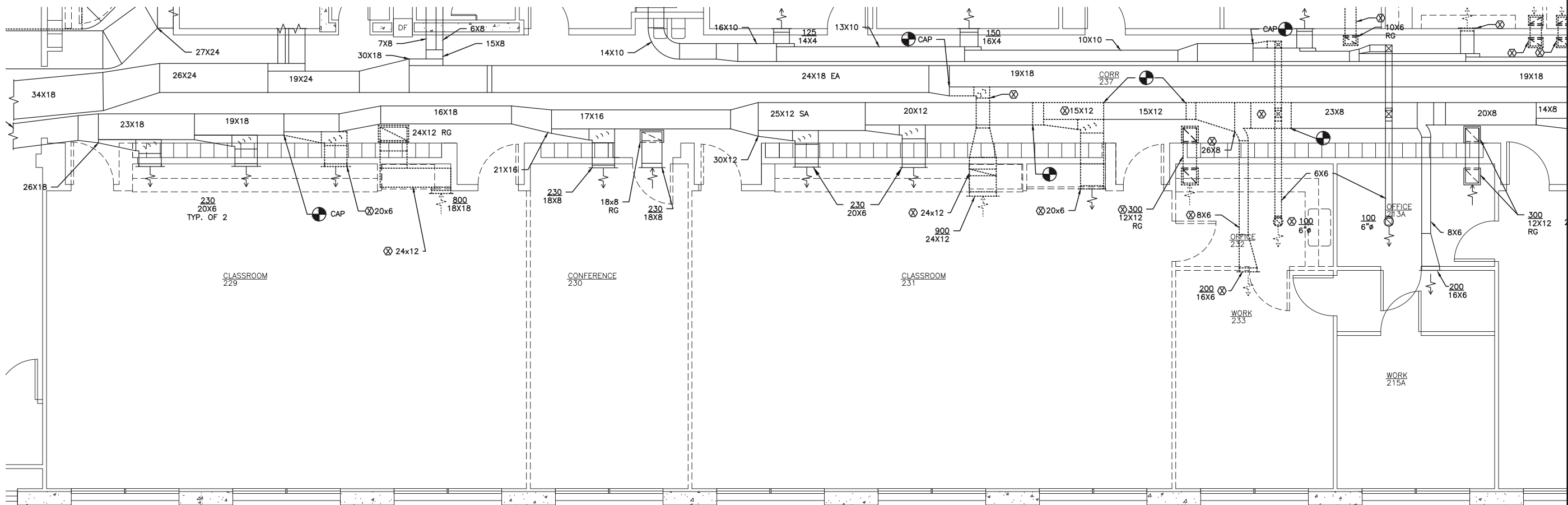
**MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

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DATE: MARCH 2012
PAGE: 11078

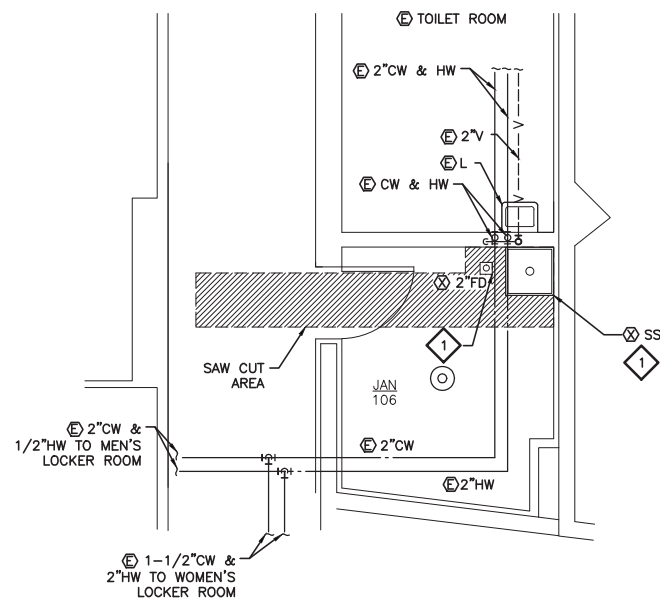
M102

1. COORDINATE WITH ABATEMENT CONTRACTOR FOR DEMOLITION OF DUCTWORK AND DUCT TAPE.



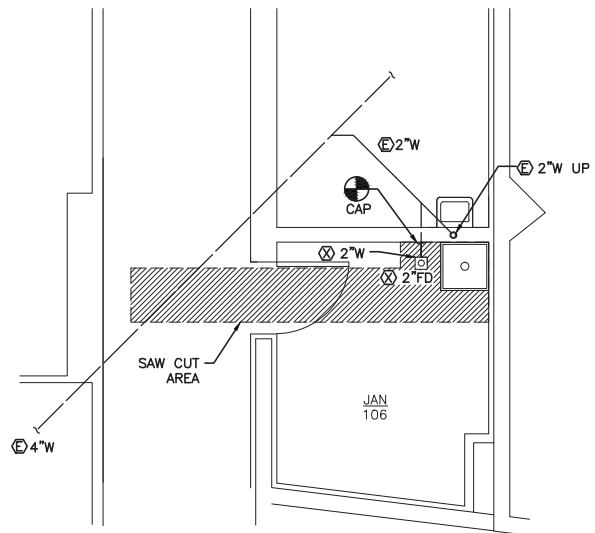
2 MAIN FLOOR PLAN - DEMOLITION DUCTWORK





1A JAN 106 PLAN

SCALE: 0 2' 4' 8'



1B JAN 106 FOUNDATION PLAN

SCALE: 0 2' 4' 8'

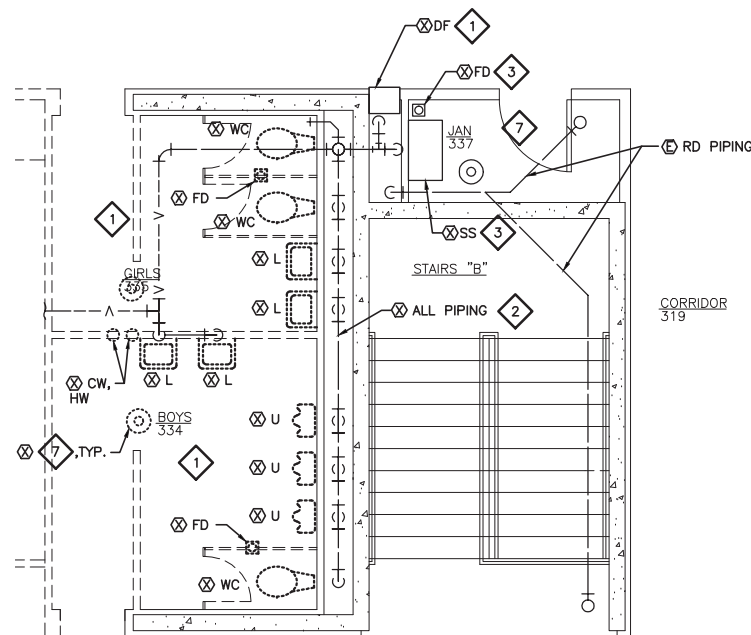


SHEET NOTES:

1. REMOVE ALL DOMESTIC WATER, WASTE AND VENT PIPING, DUCTWORK AND VENTILATION, AND PLUMBING FIXTURES IN PROJECT AREA. REMOVE BRANCH HEATING PIPING IN PROJECT AREA AS SHOWN.
2. REMOVE ALL SPRINKLER HEADS IN PROJECT AREA, ROOMS 106, 262, 263, 264, 265, 266, 267, 268, 270, 271, 335, 336, AND IN ALTERNATE WORK ROOMS 208 AND 337. ABOVE AND BELOW CEILING. APPROXIMATE LOCATION OF HEADS ARE SHOWN. SPR PIPING IS NOT SHOWN. NOTE: CEILINGS ARE BEING REMOVED IN MUCH OF PROJECT AREA SO SPRINKLER PIPING WILL NEED TO BE TEMPORARILY SUPPORTED OR REMOVED AND REINSTALLED.
3. SPRINKLER PIPING MAINS ARE EXPOSED BELOW CEILING. DOMESTIC COLD AND HOT WATER MAINS, VENT PIPING AND HEATING PIPING ARE CONCEALED ABOVE CEILING.
4. COORDINATE ALL DEMOLITION WITH ABATEMENT CONTRACTOR.

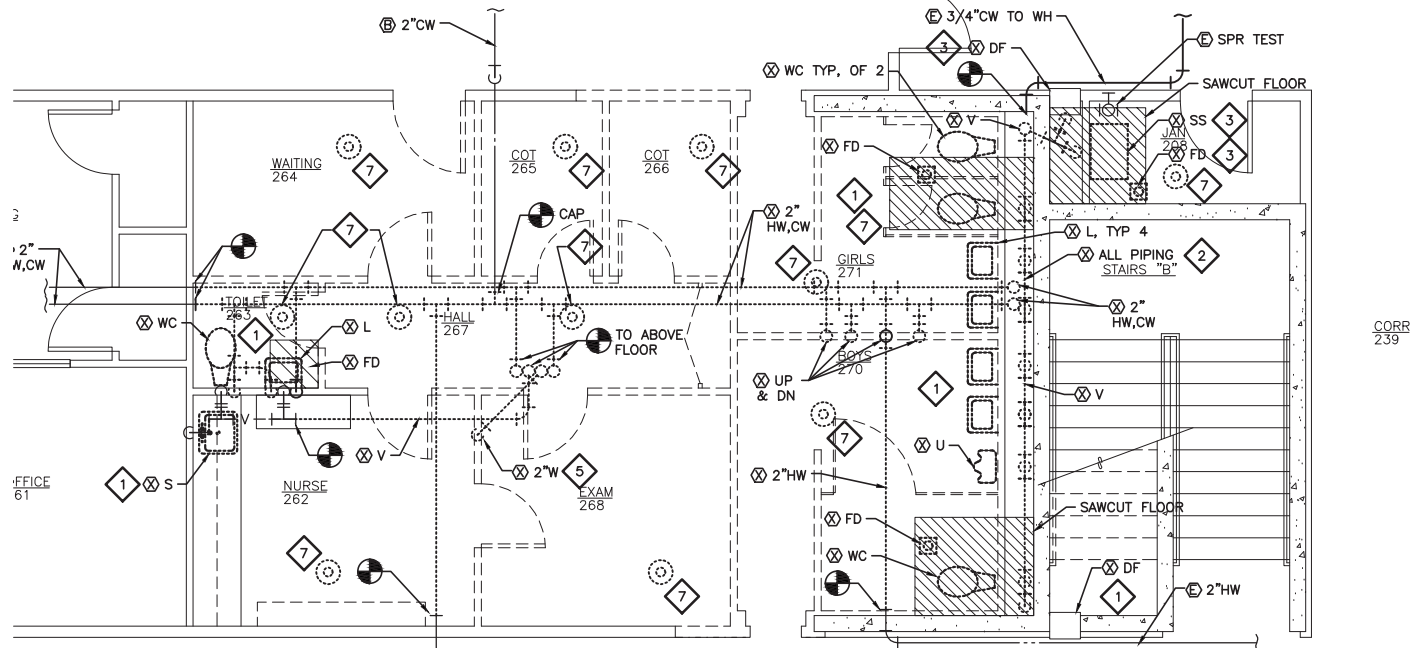
DEMOLITION NOTES:

1. REMOVE FIXTURES, REMOVE ALL CW, HW, VENT, AND WASTE PIPING TO ALL FIXTURES.
2. REMOVE PIPING IN WALL ENTIRELY, CAP WASTE BELOW FLOOR, & VENT ABOVE CEILING. REMOVE ALL SUPPORTS, TRIM, AND DEBRIS FROM CHASE. TRIM ABANDONED ANCHORS AND LUGS FLUSH WITH SURFACE.
3. REPLACE SS, FD, AND DF FIXTURES & PIPING IN ALTERNATE WORK. IN BASE BID WORK FIXTURES AND RELATED PIPING ARE TO REMAIN EXISTING
4. REMOVE GAS VALVES & PIPING IN WALL. CAP ABOVE CEILING, REMOVE ACCESS DOOR.
5. REMOVE 2"W DOWN TO 12" ABOVE FLOOR.
6. REMOVE CW, HW, & V PIPING TO SERVICE SINK AND FD. CAP PIPING IN WALL SO EXISTING FIXTURES REMAIN FUNCTIONAL.
7. REMOVE UP AND DOWN SPRINKLER BRANCH PIPING AND HEADS. REMOVE PIPING BACK TO EXPOSED BRANCH MAINS IN HALLWAYS. REMOVE SPRINKLER HEAD IN JANITOR ROOMS UNDER ALTERNATE WORK.



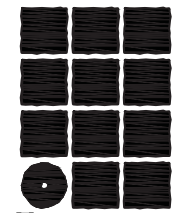
2 SECOND FLOOR TOILET RM PLAN - DEMO PIPING

SCALE: 0 2' 4' 8'



3 MAIN FLOOR TOILET ROOM PLAN - DEMO PIPING

SCALE: 0 2' 4' 8'

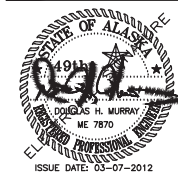


**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com

MURRAY &
ASSOCIATES, P.C.
CONSULTING ENGINEERS

P.O. BOX 21081
JUNEAU, ALASKA 99802
TEL: 907-780-6151
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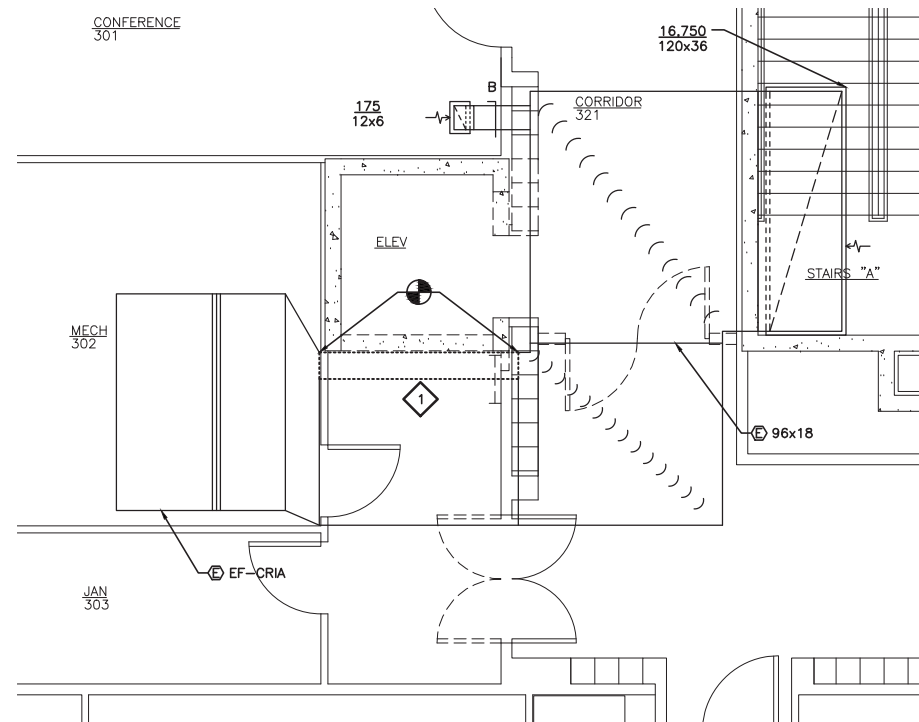
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MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

REVISIONS	
1	△
2	△
3	△

SHEET TITLE
TOILET ROOMS &
GYM JAN. 106 PLAN
- DEMO PIPING

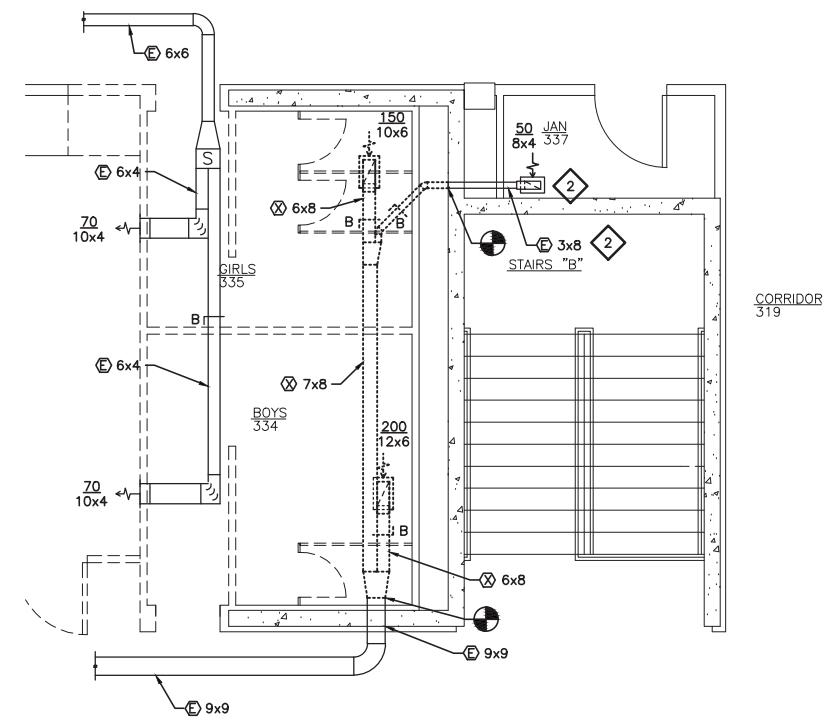
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M103



- ### DEMOLITION NOTES:
- | | |
|---|--|
| 1 | REMOVE 12" WIDE PORTION OF 96"x18"
RA DUCT. |
| 2 | REMOVE DUCTWORK IN ALTERNATE. |

- SHEET NOTES:**
1. REMOVE ALL DUCTWORK SHOWN UON.
 2. COORDINATE ALL DEMOLITION WITH ABATEMENT CONTRACTOR.



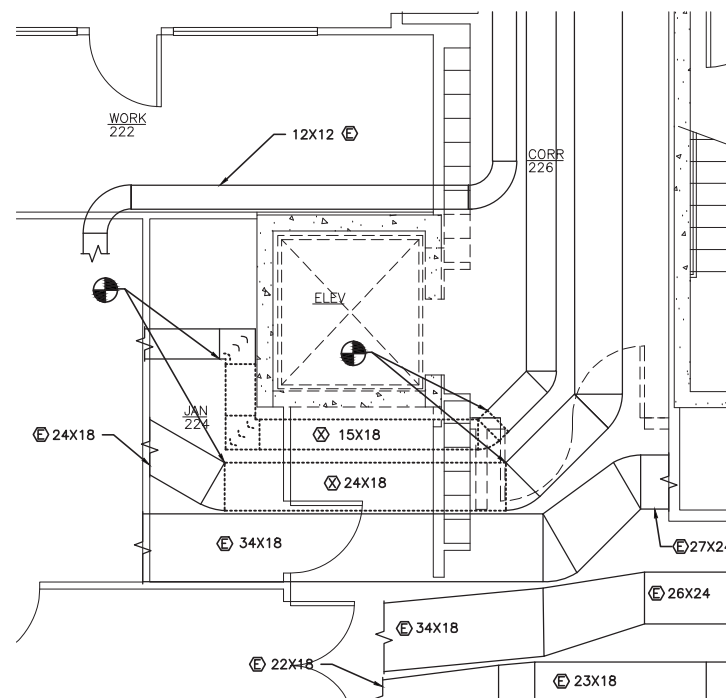
1 SECOND FLOOR JAN 303 PLAN - DEMO DUCTWORK

SCALE: 0 2' 4' 8'



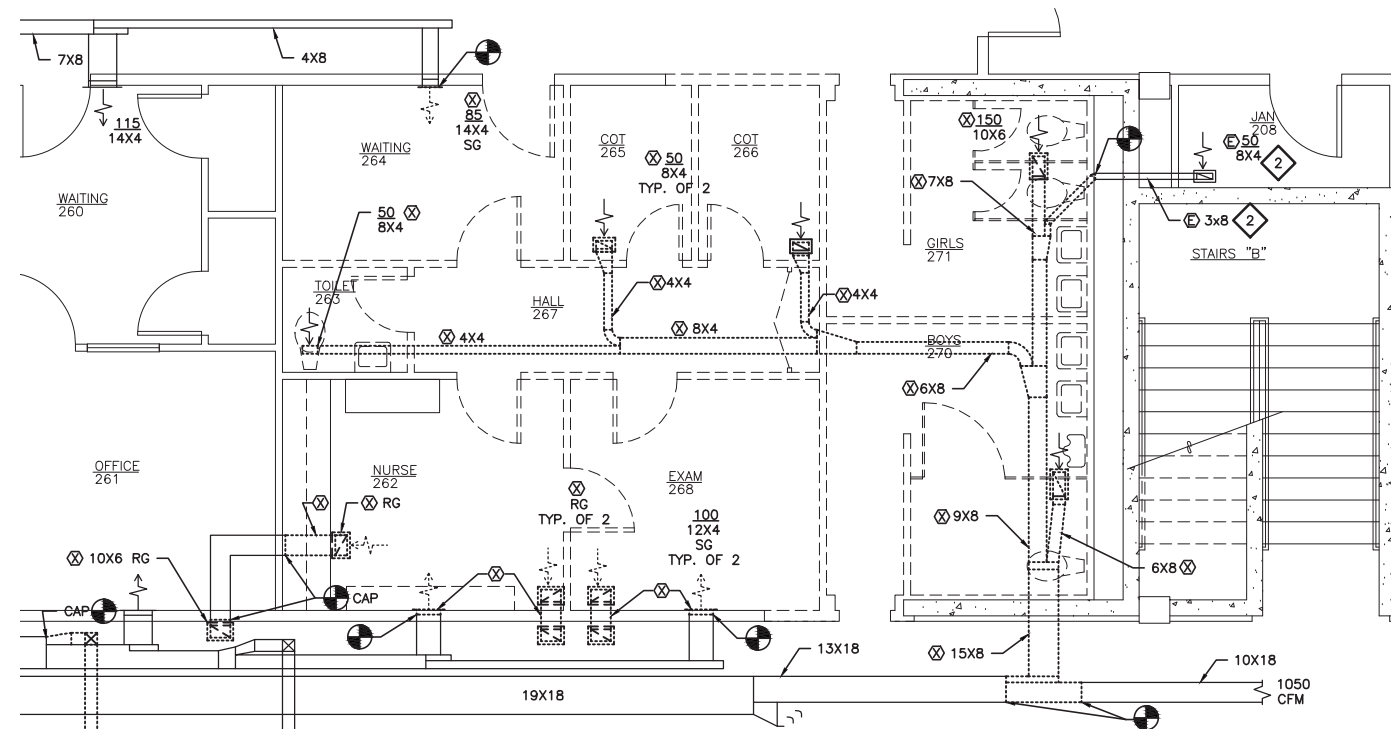
2 SECOND FLOOR TOILET PLAN - DEMO DUCTWORK

SCALE: 0 2' 4' 8'



3 JAN 224 PLAN - DEMO DUCTWORK

SCALE: 0 2' 4' 8'



4 MAIN FLOOR TOILET PLAN - DEMO DUCTWORK

SCALE: 0 2' 4' 8'



**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
 uneau, Alaska 99801
 phone 907-586-1070
 fax 907-586-3959
 jensenyorbalott.com

MURRAY &
ASSOCIATES, P.C.
CONSULTING ENGINEERS

P O BOX 21081
 JUNEAU, ALASKA 99802
 TEL: 907 780-6151
 FAX: 907 780-6182



**CITY & BOROUGH OF JUNEAU
MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

REVISIONS



SHEET TITLE
PLAN 224, SECOND &
MAIN FLOOR PLAN
- DEMO
DUCTWORK

DATE: MARCH 2012
FILE: 11078

M104



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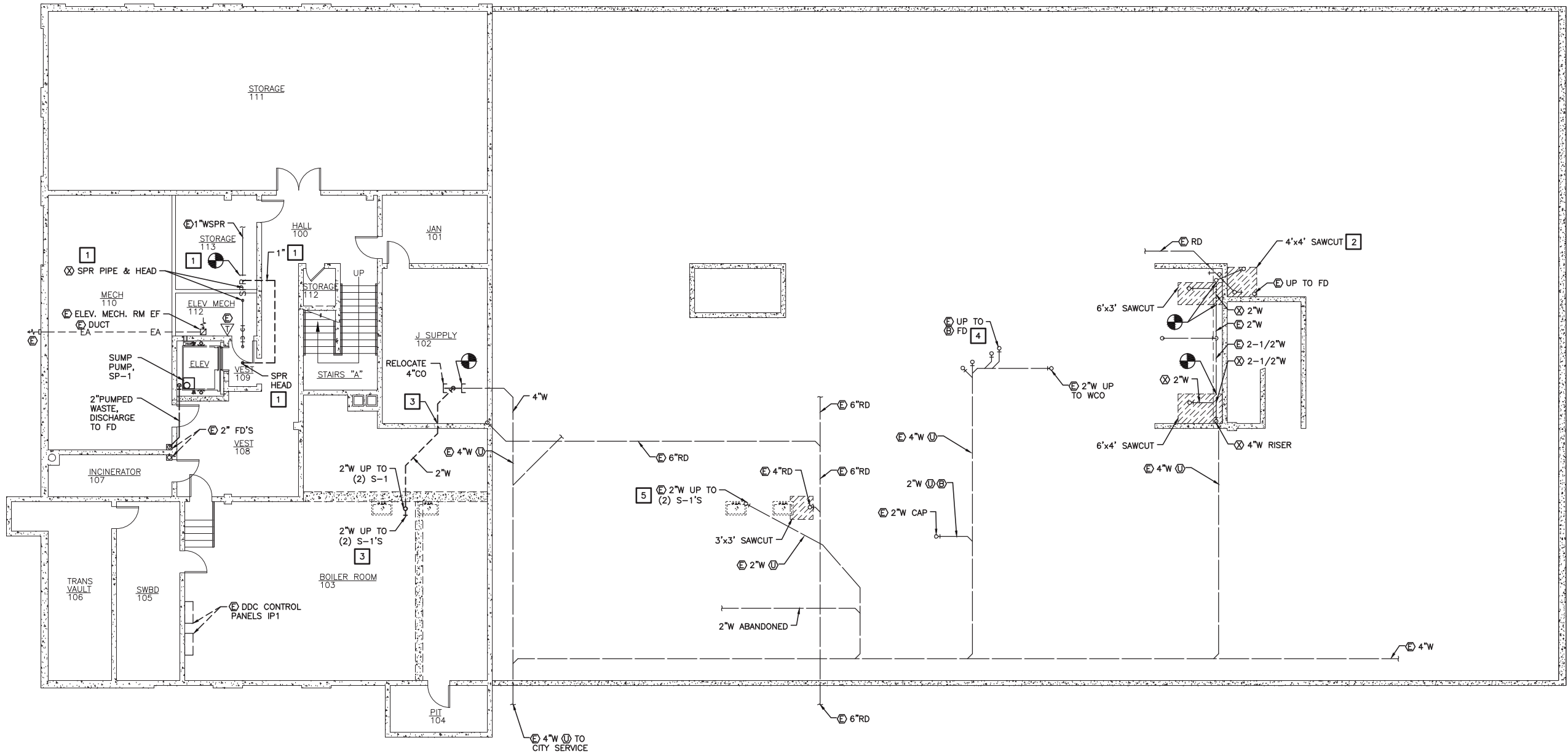
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TE: MARCH 2012
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M200

- 1 REMOVE SPRINKLER 1" BRANCH PIPE AND HEADS FROM ELEVATOR MACHINE ROOM AND LOBBY. SEAL PENETRATIONS WITH FIRE RATED MATERIAL. CONNECT TO EXISTING BRANCH PIPING AND ROUTE 1" WSPR TO HEAD ELEVATOR LOBBY. PENETRATE CONCRETE WALL IN TWO LOCATIONS.
- 2 IN ALTERNATE WORK.
- 3 CORE DRILL PENETRATIONS.
- 4 PLUG FD PIPING PERMANENTLY.
- 5 CLEAN AND SNAKE PIPING. VERIFY WASTE PIPING IS OPERATIONAL, REPORT TO PROJECT MANAGER.



1 BASEMENT FLOOR PLAN

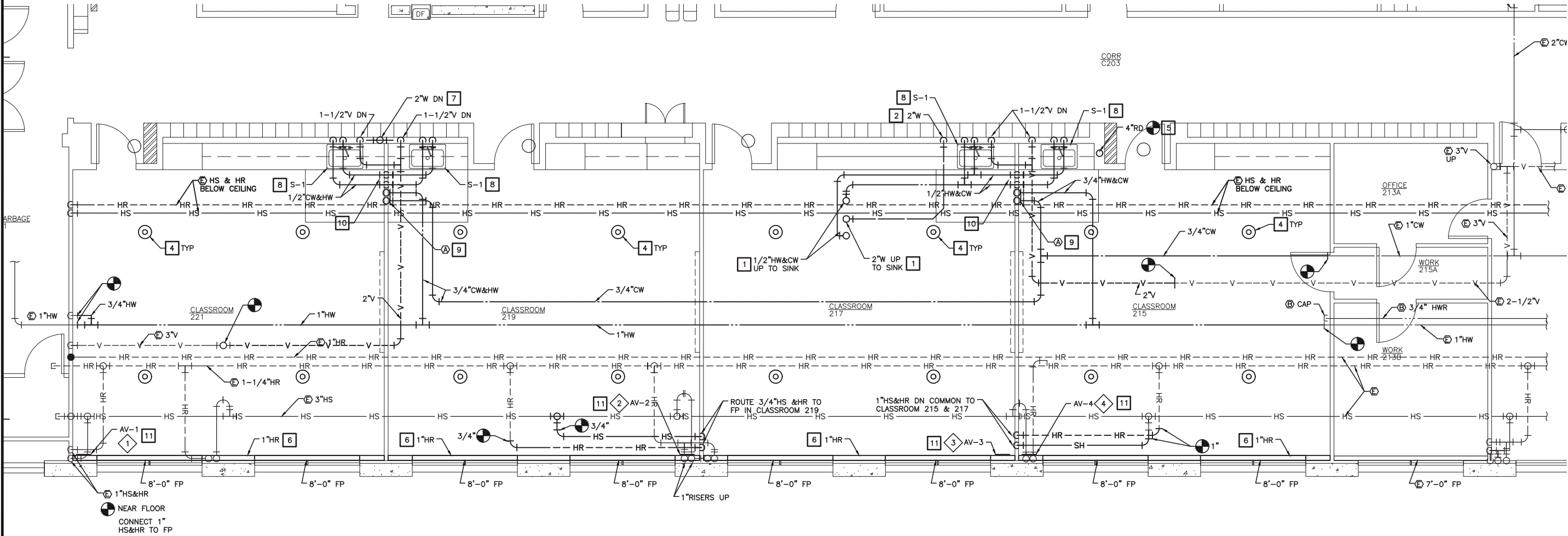


SHEET NOTES:

1. REPLACE ALL UPRIGHT AND PENDENT SPRINKLER HEADS IN PROJECT AREA, ROOMS 229, 230, 231, 232, AND 233. ABOVE AND BELOW CEILING. NOTE CEILINGS ARE BEING REMOVED IN MUCH OF PROJECT AREA SO SPRINKLER PIPING WILL NEED TO BE TEMPORARILY SUPPORTED OR REMOVED AND REINSTALLED.
2. SPRINKLER PIPING MAINS ARE EXPOSED BELOW CEILING (NOT SHOWN). DOMESTIC COLD AND HOT WATER MAINS, VENT PIPING AND HEATING PIPING ARE CONCEALED ABOVE CEILING UON.

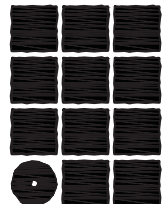
CONSTRUCTION NOTES:

1. CONNECT TO PIPING ABOVE FLOOR. VERIFY LOCATION.
2. CONNECT 2"W FROM SINK ON SECOND FLOOR TO S-1 SINK WASTE. ROUTE ALL THREE SINKS 2"W TO COMMON 2"W AND CONNECT TO EXISTING 2" THROUGH FLOOR. VERIFY LOCATION. VERIFY OPERATION OF EXISTING UNDERGROUND 2"W.
3. REPLACE PENDENT SPRINKLER HEADS IN ROOM.
4. REPLACE PENDENT AND UPRIGHT SPRINKLER HEAD.
5. INSTALL INSULATED 4" ROOF DRAIN, CONNECT AT FLOOR AND CEILING LEVEL.
6. ROUTE HEATING RETURN FP PIPE ABOVE FP CORE INSIDE ENCLOSURE.
7. ROUTE 2"W FROM BOTH SINKS TO COMMON 2"W DOWN INTO BOILER ROOM. CORE DRILL HOLE AS REQUIRED.
8. PROVIDE WCO BELOW SINK.
9. INSTALL 3/4" ISOLATING VALVES ON CW & HW PIPING BEHIND 16"x16" ACCESS DOOR, BOTTOM OF DOOR AT 8'-6" AFF.
10. COMMON 3/4"CW AND HW FROM ISOLATION VALVES.
11. LOCATE ISOLATION VALVES, AV, AND FLOWSETTER ACCESSIBLY BEHIND ACCESS DOOR.



2 MAIN FLOOR PLAN - PIPING

SCALE: 0 2' 4' 8'

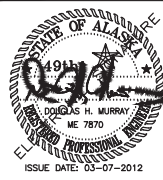


**Jensen
Yorba
Lott
Inc.**

522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com

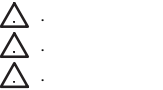
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P.O. BOX 21081
JUNEAU, ALASKA 99802
TEL: 907-780-6151
FAX: 907-780-6182



**CITY & BOROUGH OF JUNEAU
MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

REVISIONS



SHEET TITLE
MAIN FLOOR
PLAN - PIPING

DATE: MARCH 2012
FILE: 11078

M201



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CONSULTING ENGINEERS

STATE OF ALASKA
49th
DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 03-07-2012

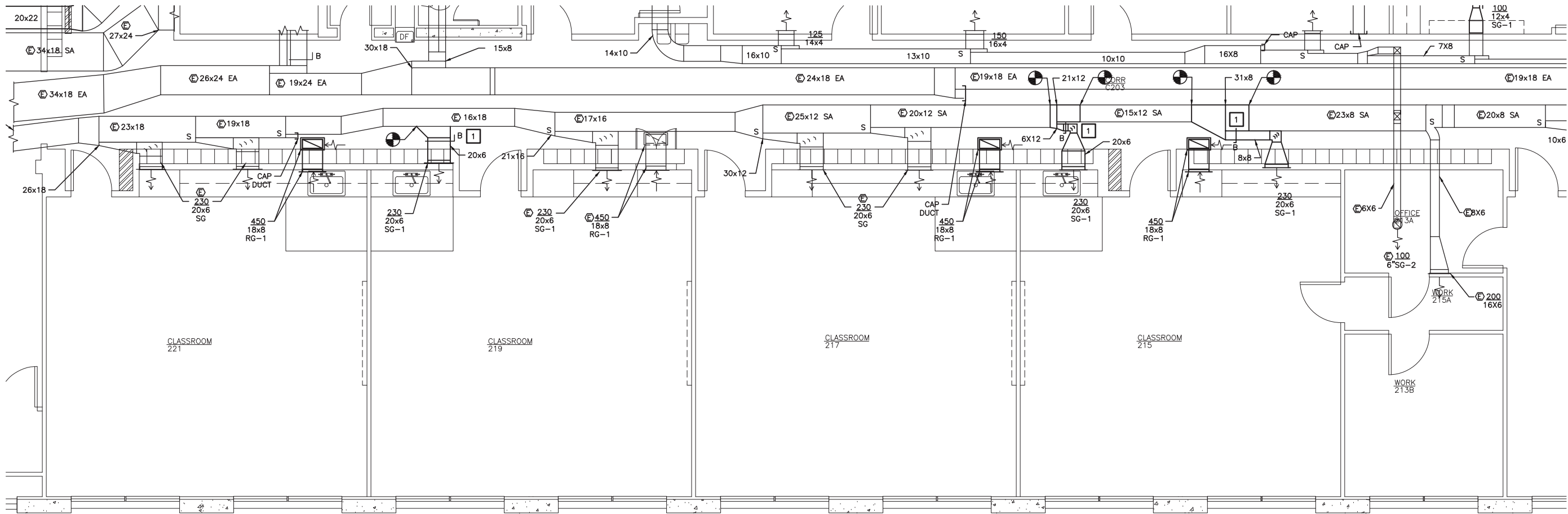
**MARIE DRAKE SCHOOL
RENOVATION**
Juneau, Alaska

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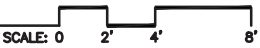
DATE: MARCH 2012
PAGE: 11078

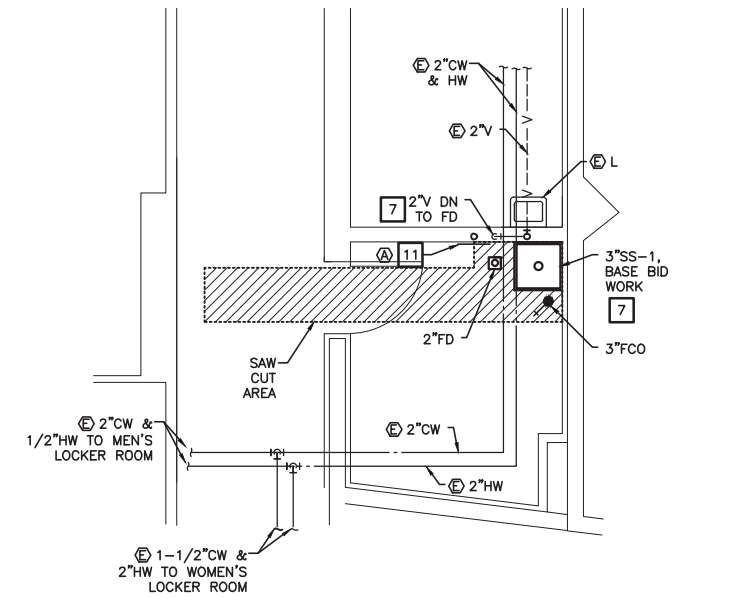
M202

1 MANUAL DAMPER WITH RECESSED REMOTE OPERATOR IN CEILING.



2 MAIN FLOOR PLAN - DUCTWORK





1A JAN 233 PLAN

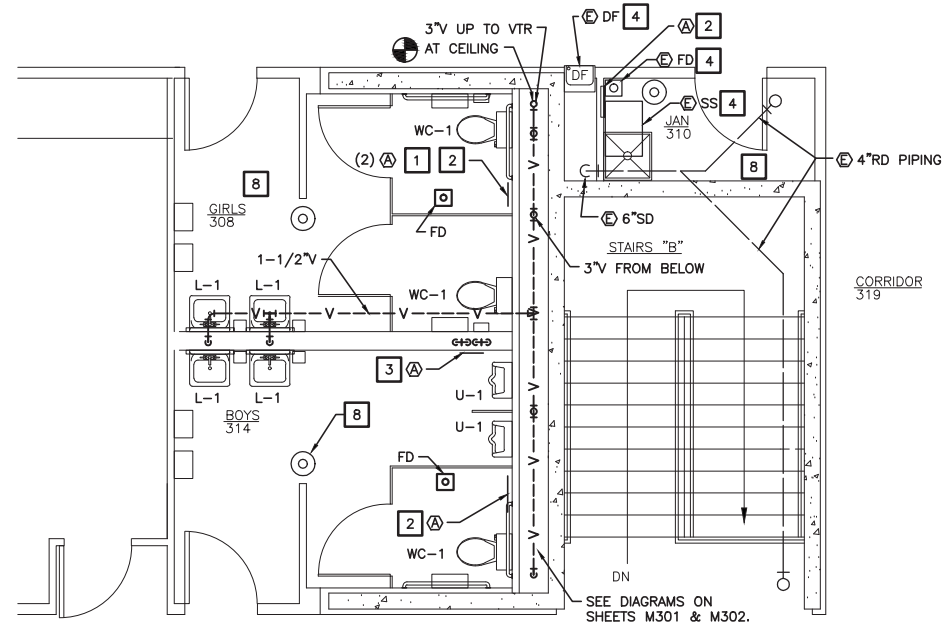
SCALE: 0 2' 4' 8'

CONSTRUCTION NOTES:

- 1 INSTALL WATER HAMMER ARRESTORS ACCESSIBLY BEHIND 16"x16" ACCESS DOOR, LOCATE AT APPROX. 4'-4" AFF.
- 2 INSTALL TRAP PRIMERS ACCESSIBLY BEHIND 16"x16" ACCESS DOOR, LOCATE AT APPROX. 4'-4" AFF.
- 3 INSTALL CW & HW MAIN SHUTOFF VALVES BEHIND 16"x16" ACCESS DOOR, LOCATE 4'-4" AFF TO BOTTOM OF DOOR.
- 4 REPLACE SS, FD, & DF IN ALTERNATIVE WORK. CONNECT EXISTING FIXTURES TO PIPING IN BASE BID.
- 5 INSTALL ISOLATION VALVE AND DV BEHIND ACCESS DOOR.
- 6 REINSTALL 4" WALL CLEANOUT IN NEW WALL IN ALTERNATE.
- 7 CONNECT TO EXISTING CW, HW, & V PIPING IN WALL.
- 8 INSTALL BRANCH PIPING ABOVE CEILING, CONNECT TO MAINS IN HALLWAYS. INSTALL UPRIGHT AND RECESSED PENDENT HEADS. LOCATION OF HEADS IS SCHEMATIC, COORDINATE LOCATIONS WITH OTHER DISCIPLINES. REPLACE SPRINKLER HEADS IN JANITOR ROOMS IN ALTERNATE.
- 9 CONNECT TO EXISTING 2"W AND INSTALL 2"WCO.
- 10 INSULATE PIPING IN ALTERNATE.
- 11 INSTALL TRAP PRIMER ASSEMBLY BEHIND 16"x16" ACCESS DOOR, LOCATE AT APPROX. 18" AFF.

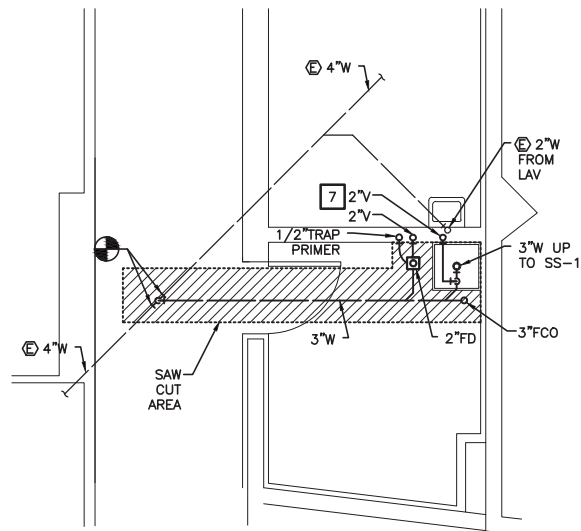
SHEET NOTE:

1. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECTURAL LOCATION AND ELEVATIONS ON SHEET A503.



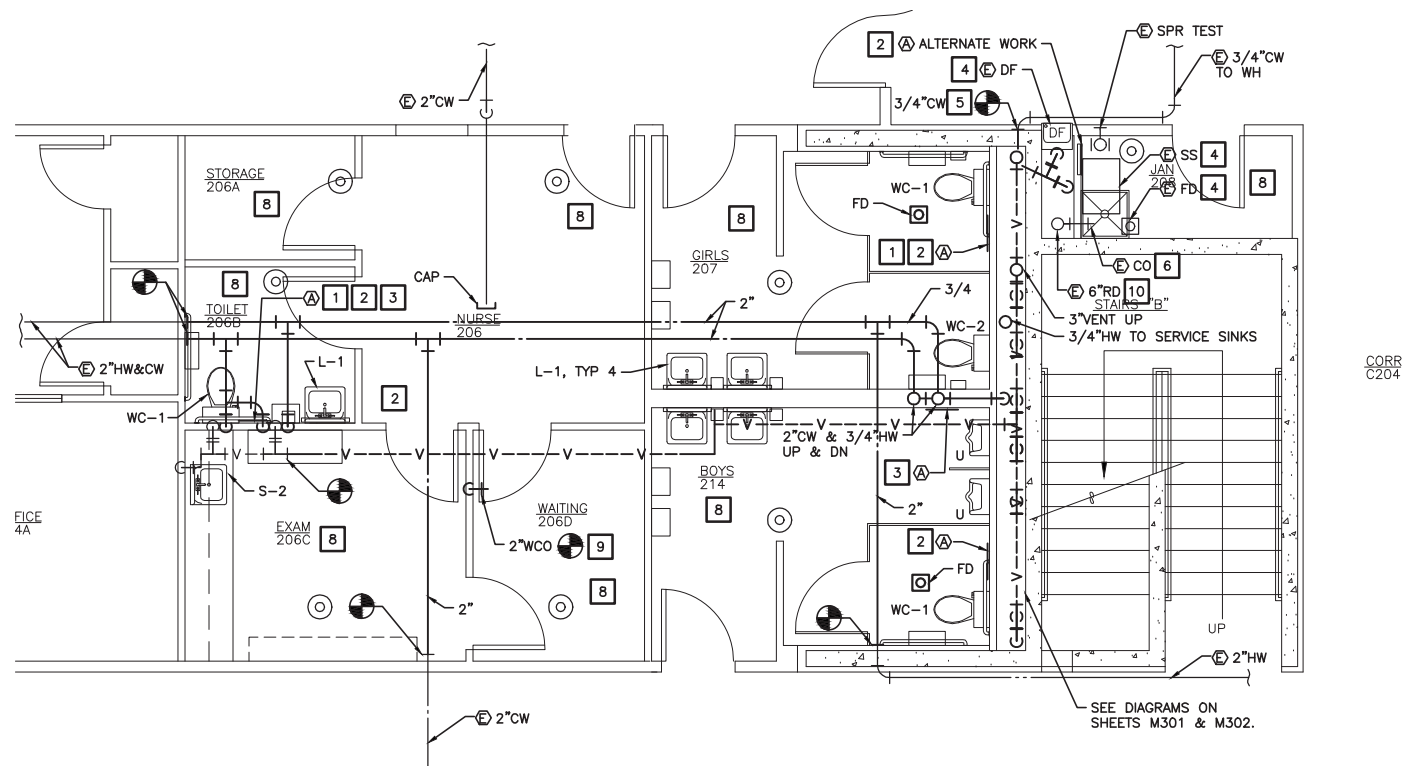
2 SECOND FLOOR PLAN - PIPING

SCALE: 0 2' 4' 8'



1B JAN 233 FOUNDATION PLAN

SCALE: 0 2' 4' 8'



3 MAIN FLOOR PLAN - PIPING

SCALE: 0 2' 4' 8'



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522 West 10th Street
Juneau, Alaska 99801
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fax 907-586-3959
jensenyorbalott.com

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CONSULTING ENGINEERS

P.O. BOX 21081
JUNEAU, ALASKA 99802
TEL: 907-780-6151
FAX: 907-780-6182



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Juneau, Alaska

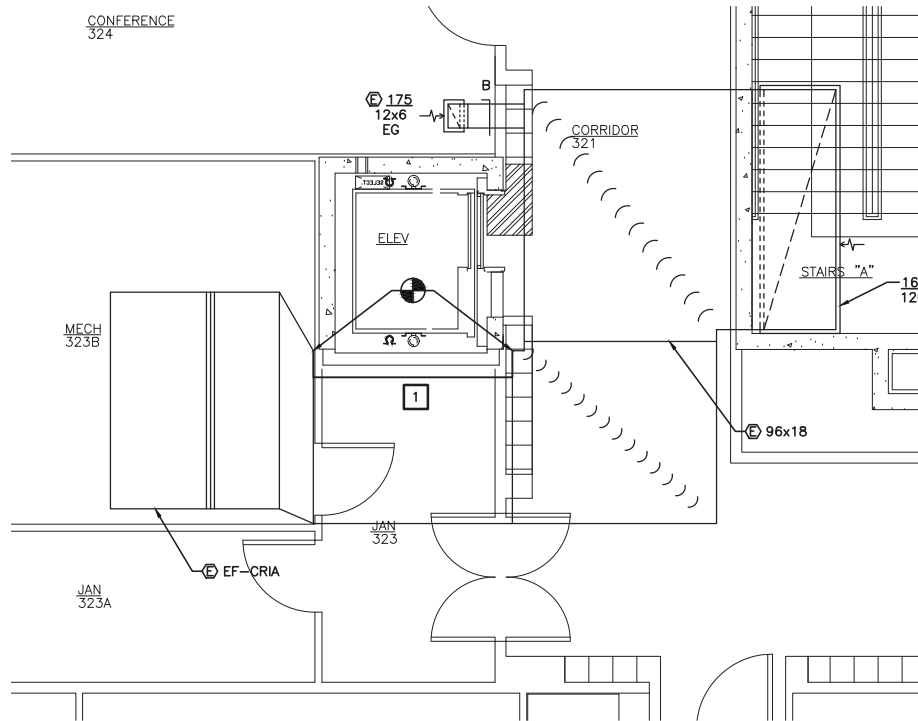
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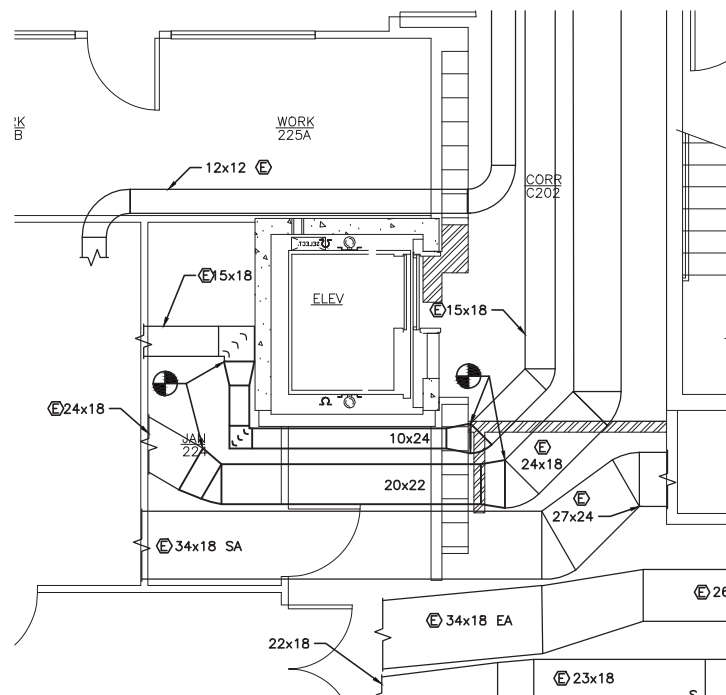
SHEET TITLE
JAN. 106, MAIN &
SECOND FLOOR
PLAN - PIPING

DATE: MARCH 2012
FILE: 11078

M203



1 SECOND FLOOR JAN 303 PLAN - DUCTWORK
SCALE: 0 2' 4' 8'



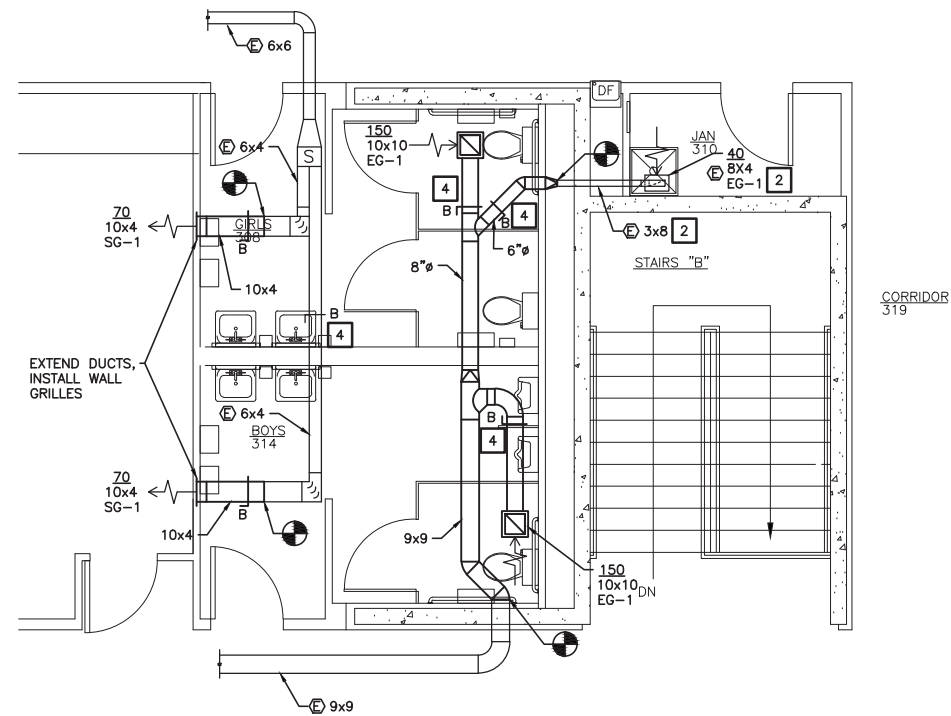
3 JAN 224 PLAN - DUCTWORK
SCALE: 0 2' 4' 8'

CONSTRUCTION NOTES:

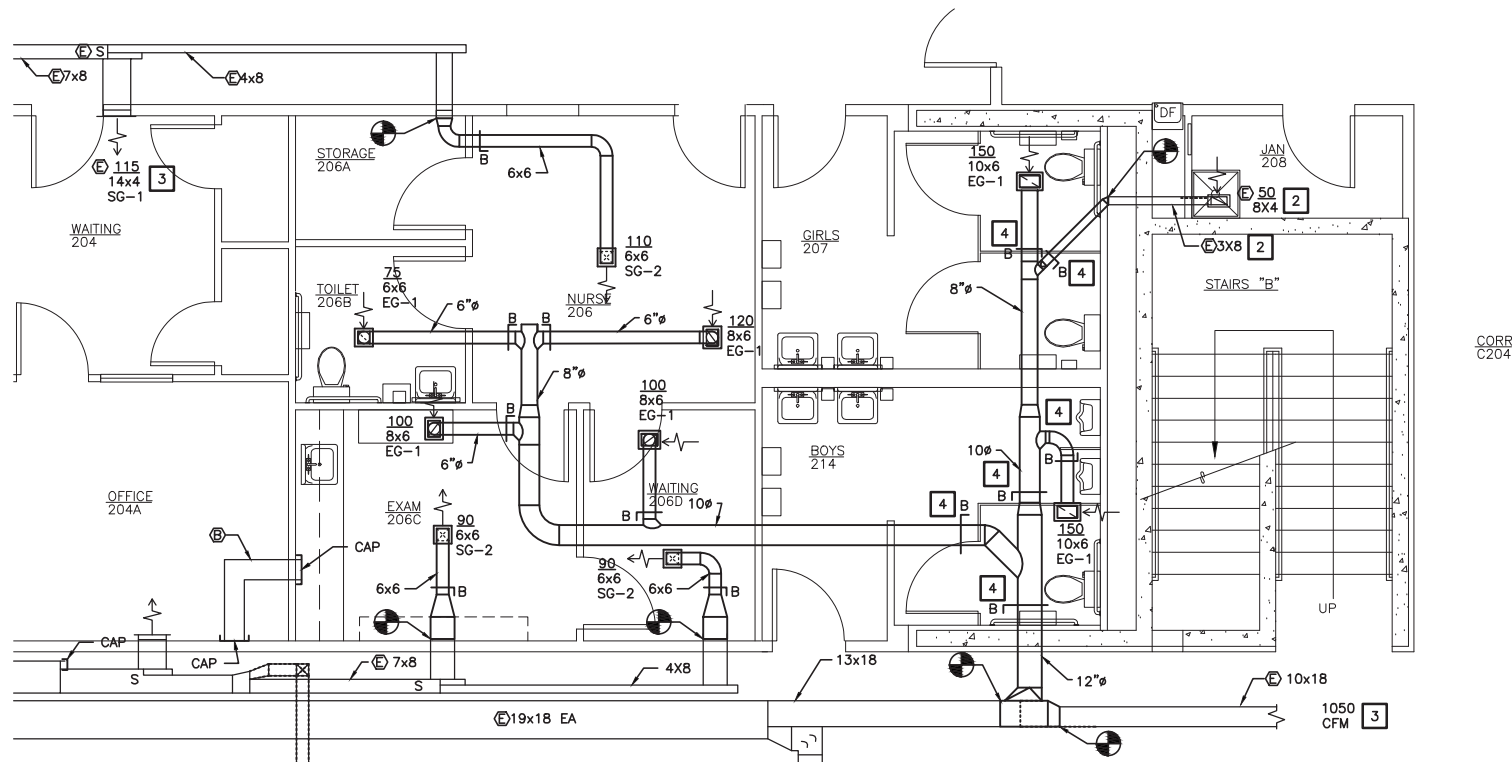
- 1 SEAL RETURN DUCT WITH 22 GAGE SHEET METAL AND BRACING. SEAL ALL JOINTS AIRTIGHT.
- 2 REPLACE DUCT & GRILLE IN ALTERNATE WORK.
- 3 TEST AND MEASURE AIR VOLUME.
- 4 MANUAL DAMPER WITH RECESSED REMOTE OPERATOR IN CEILING.

SHEET NOTES:

1. TEST, ADJUST, AND MEASURES ALL GRILLES AND DIFFUSERS SHOWN.
2. PROVIDE ROUND TO RECTANGULAR TRANSITIONS AT GRILLES.



2 SECOND FLOOR TOILET PLAN - DUCTWORK
SCALE: 0 2' 4' 8'



4 MAIN FLOOR TOILET PLAN - DUCTWORK
SCALE: 0 2' 4' 8'

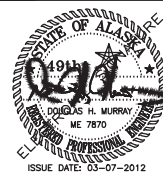


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Juneau, Alaska 99801
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fax 907-586-3959
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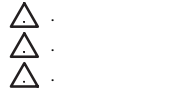
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TEL: 907-780-6151
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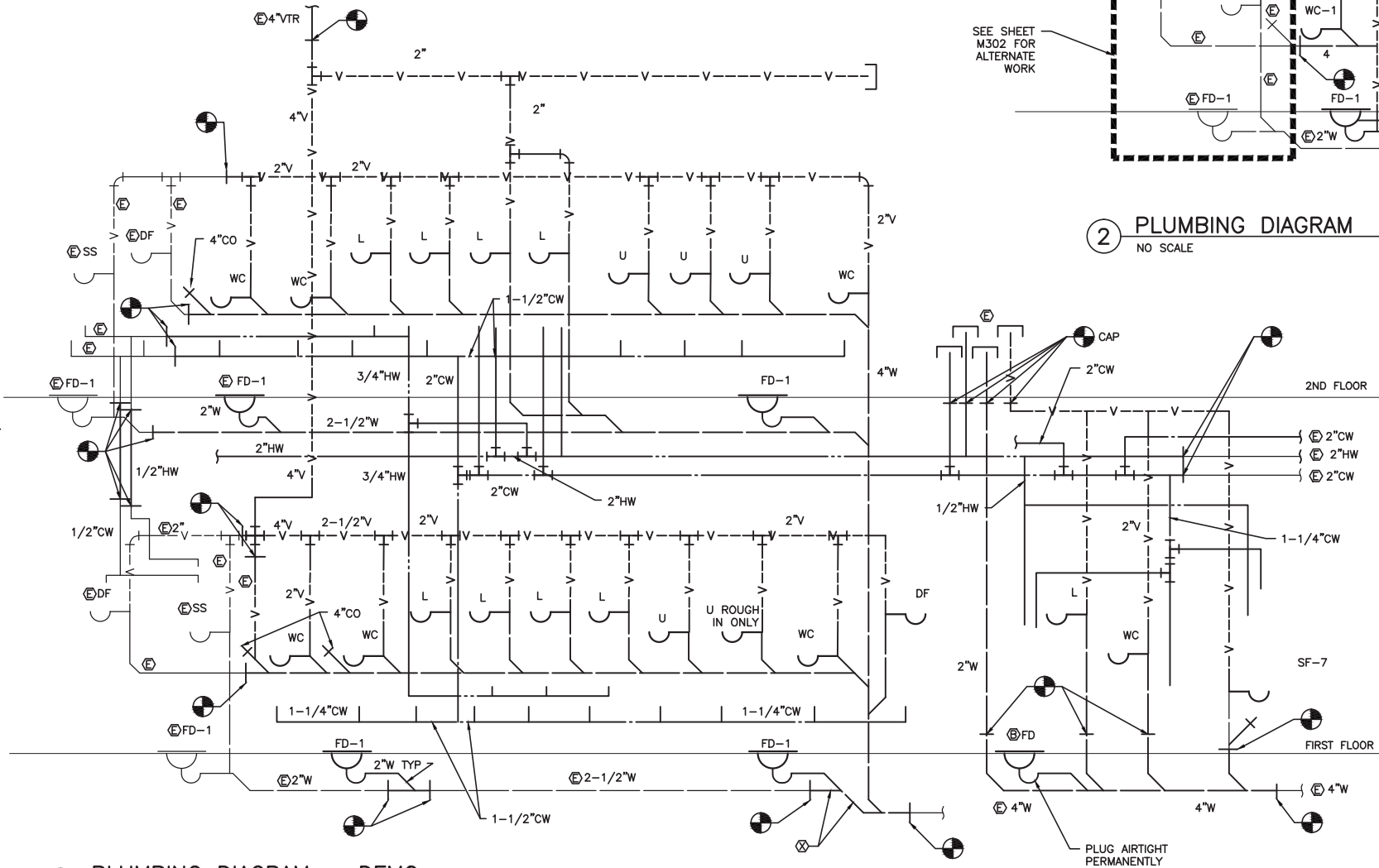
SHEET TITLE
JAN 224, SECOND &
MAIN FLOOR PLAN
- DUCTWORK

DATE: MARCH 2012
FILE: 11078

M204

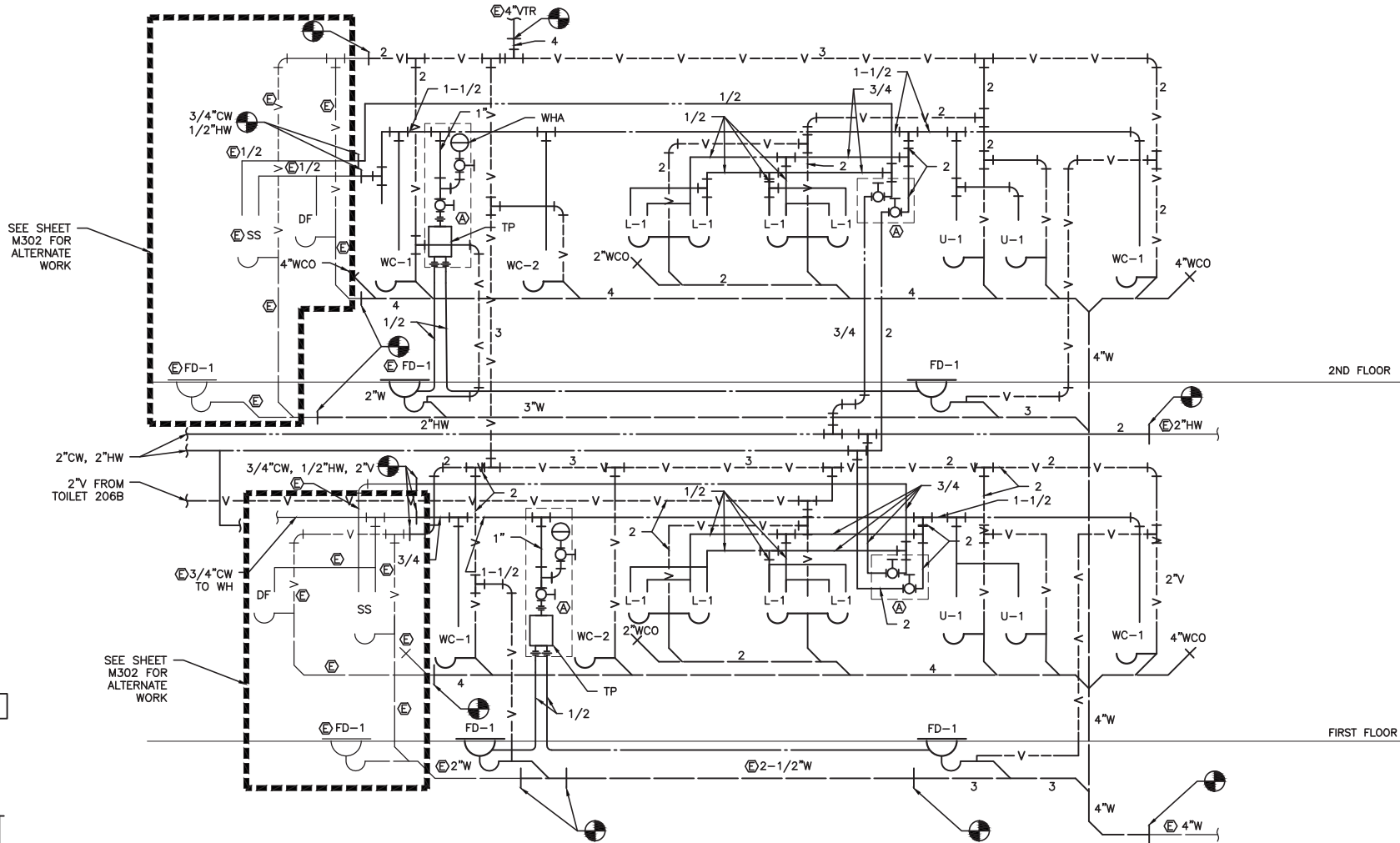
PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET, WC	-	1-1/4"	4"	2"
LAVATORY, L	1/2"	1/2"	1-1/2"	1-1/4"
SINK, S	1/2"	1/2"	2"	1-1/2"
SERVICE SINK, SS	1/2"	1/2"	3"	2"
DRINKING FOUNTAIN, DF	-	1/2"	1-1/4"	1-1/4"
FLOOR DRAIN, FD	-	1/2"	2"	2"
TRAP PRIMER, TP	-	1/2"	-	-
URINAL, U	-	1"	2"	2"



1 PLUMBING DIAGRAM - DEMO
NO SCALE

NOTE: REMOVE ALL PIPING UON.



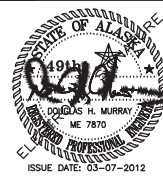
2 PLUMBING DIAGRAM
NO SCALE



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fax 907-586-3959
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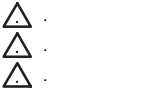
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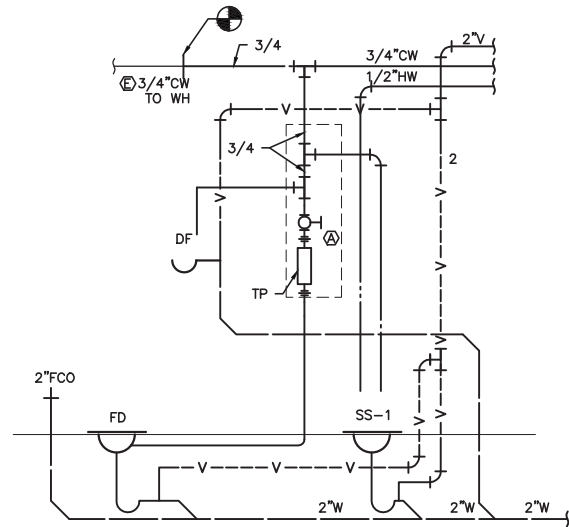
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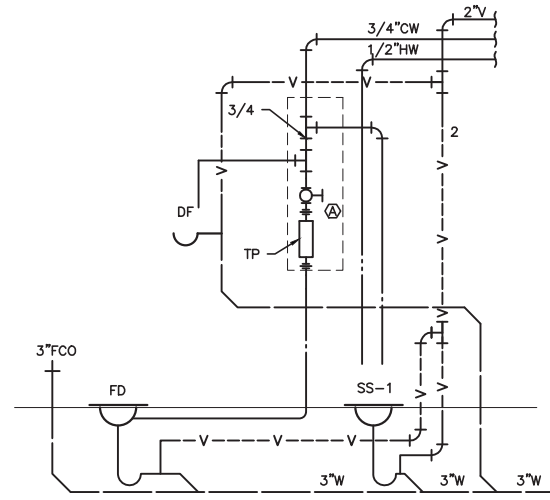
SHEET TITLE
PLUMBING
DIAGRAMS

DATE: MARCH 2012
FILE: 11078

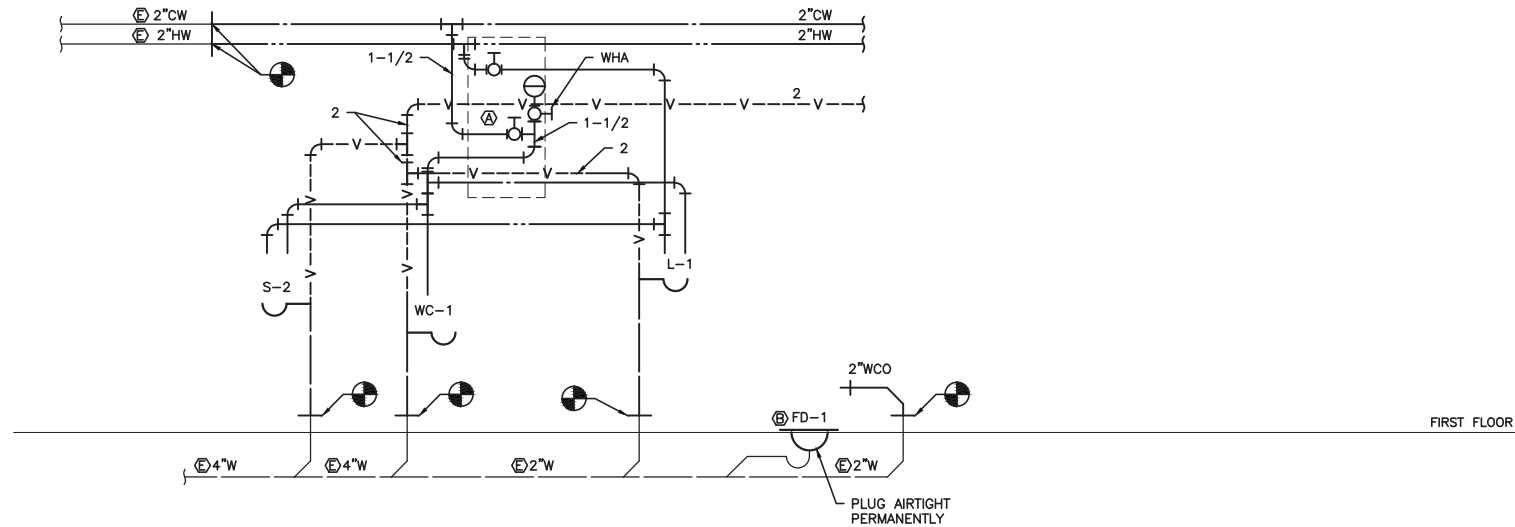
M301



2 MAIN FLOOR – JAN 208 – ALTERNATE
NO SCALE



1 SECOND FLOOR – JAN 334
NO SCALE



3 TOILET 206D DIAGRAM
NO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET, WC	–	1–1/4	4	2
LAVATORY, L	1/2	1/2	1–1/2	1–1/4
SINK, S	1/2	1/2	2	1–1/2
SERVICE SINK, SS	1/2	1/2	3	2
DRINKING FOUNTAIN, DF	–	1/2	1–1/4	1–1/4
FLOOR DRAIN, FD	–	1/2	2	2
TRAP PRIMER, TP	–	1/2	–	–
URINAL, U	–	1"	2	2



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Lott
Inc.**

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Juneau, Alaska 99801
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JUNEAU, ALASKA 99802
TEL: 907 780-6151
FAX: 907 780-6182



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SHEET TITLE
**PLUMBING
DIAGRAMS**

DATE: MARCH 2012
FILE: 11078

M302