

SAND CREEK PARK SITE IMPROVEMENTS WARMING HOUSE / CONCESSION BUILDING

CITY OF COON RAPIDS, MN
 SAND CREEK PARK, COON RAPIDS, MN

OERTEL ARCHITECTS PROJECT NUMBER 14-22

APPLICABLE CODES:

2006 I.B.C.
 2007 MN STATE BLDG. CODE

OCCUPANCY:

CHAPTER 3
 MAIN BUILDING
 FACILITY USE: MERCANTILE (M) - CONCESSION SALES AND STORAGE ASSEMBLY (A-3) - WARMING ROOM - NO STAGE / PLATFORM

CHAPTER 5
 SEPARATED OCCUPANCIES - TABLE 508.3.3: 1 HOUR BETWEEN A AND M OCCUPANCIES*
 *NO SEPARATION FOR STORAGE WITHIN M, IF SPRINKLERED AND UNDER 3,000 SF
 *NO SEPARATION BETWEEN A COMMERCIAL KITCHEN AND SEATING AREA IT SERVES
 NO SEPARATION REQUIRED BETWEEN CONCESSION AREA AND WARMING AREA WITH EXCEPTIONS

MAINTENANCE BUILDING: UTILITY (U)

FIRE SUPPRESSION:

MAIN BUILDING: FULL FIRE SUPPRESSION IS PART OF THIS PACKAGE.

MAINTENANCE BUILDING: FIRE PROTECTION IS NOT PART OF THAT STRUCTURE.

CONSTRUCTION TYPE:

MAIN BUILDING: TYPE V-B
 MAINTENANCE BUILDING: TYPE V-B

FIRE RESISTANCE:

IBC TABLE 601 FOR TYPE V-B		
STRUCTURAL FRAME	0	FIRE RATING
EXTERIOR BEARING WALLS	0	FIRE RATING
INTERIOR BEARING WALLS	0	FIRE RATING
EXTERIOR NONBEARING WALLS	0	FIRE RATING
INTERIOR NONBEARING WALLS	0	FIRE RATING
FLOOR CONSTRUCTION	0	FIRE RATING
ROOF CONSTRUCTION	0	FIRE RATING
IBC TABLE 602 FOR TYPE V-B		
EXTERIOR WALLS	0	BUILDING IS GREATER THAN 30' FROM ALL PROPERTY LINES

ALLOWABLE AND PROPOSED SQUARE FOOTAGE

OCCUPANCY GROUP	A-3	PROPOSED BUILDING SF:
CONSTRUCTION TYPE	V-B	
		M = 2,275 / 9,000 = 0.253
MAXIMUM HEIGHT:	40 FEET	A-3 = 2,086 / 6,000 = 0.348
MAXIMUM STORIES:	1	
MAXIMUM GROSS FLOOR AREA:	6,000	0.253 + 0.348 = 0.601 < 1.0 = OK
OCCUPANCY GROUP	M	
CONSTRUCTION TYPE	V-B	
MAXIMUM HEIGHT:	40 FEET	
MAXIMUM STORIES:	1	
MAXIMUM GROSS FLOOR AREA:	9,000	

RECYCLING SPACE

COMMERCIAL KITCHEN:	0.003 PER SF
940 SF * 0.003 = 2.82 SF	
WARMING ROOM:	0.0025 PER SF
860 SF * 0.0025 = 2.15 SF	

OCCUPANT COUNT AND PLUMBING FIXTURE CALCULATION

BUILDING PLAN NOTES:

BUILDING IS A YEAR ROUND FACILITY FOR CONCESSION SALES, SUMMER PROGRAMMING AND WINTER WARMING HOUSE USE, AS WELL AS YEAR ROUND MEETING SPACE IN THE WARMING ROOM AREA.
 BUILDING RESTROOM FACILITY PRIMARILY SERVING SPORTING FIELDS AND THE PARK IN GENERAL.
 ANTICIPATED VISITORS TOTAL 250 PEOPLE, CLASSIFIED AS A-5 .

BUILDING SPACE PROGRAM

CONCESSION SALES / COMMERCIAL KITCHEN AREA 940 SF / 200 SF / OCCUPANT
 OCCUPANTS = 4.7
 SERVICE COUNTERS - STAINLESS STEEL FINISHES
 STEEL SHUTTER ROLL UP DOORS AT SERVICE OPENINGS
 BEVERAGE COOLERS, FRIDGE AND FREEZERS (BY OWNER)
 -FINAL EQUIPMENT TO BE PROVIDED BY OWNER
 3 COMPARTMENT SINK
 HAND SINK
 MDH COMPLIANT WALL AND FLOOR FINISHES
 ACCESS TO STORAGE ROOM

STORAGE ROOM 708 SF / 300 SF / OCCUPANT
 OCCUPANTS = 2.4
 EXTERIOR ACCESS
 - DOUBLE DOOR, SECTIONAL DOOR OR ROLLING SHUTTER DOOR
 ACCESS FROM CONCESSION AREA
 STORAGE OF FIELD MAINTENANCE EQUIPMENT

MECHANICAL / ELECTRICAL EQUIPMENT ROOM 321 SF / 300 SF / OCCUPANT
 OCCUPANTS = 1.1
 EXTERIOR ACCESS
 CENTRAL LOCATION IN PLAN

RESTROOMS
 ONE MEN'S RESTROOM
 ONE WOMEN'S RESTROOM
 SIZE VARIES BASED ON OCCUPANT / FIXTURE COUNT

RESTROOM FIXTURE COUNT PER CHAPTER 29 IBC

	WC		LAV		DF	SERVICE SINK
	M	F	M	F		
OCCUPANCY: A-5 (PARK GATHERING)	1 / 75 < 1500	1/40	1/200	1/150	1/1000	1
<u>REQUIRED</u>	1.67	3.125	0.625	0.833	.25	1
OCCUPANCY: M (MERCANTILE - CONCESSION)	1/500		1/750		1/1000	1
<u>REQUIRED</u>	.01		.0007		.005	1
OCCUPANCY: S (STORAGE AND EQUIPMENT ROOM)	1/100		1/100		1/1000	1
<u>REQUIRED</u>	0.035		0.035		0.0035	1
<u>TOTAL REQUIRED FIXTURES</u>	<u>M = 1.70</u>	<u>F = 3.15</u>	<u>M = 0.643</u>	<u>F = 0.851</u>	<u>0.26</u>	<u>3</u>

DRAWING INDEX:

ARCHITECTURAL:	ELECTRICAL:
A000 - PROJECT INFORMATION AND INDEX	E001- ELECTRICAL TITLE SHEET
A001 - REFERENCE SITE PLAN	E101- FLOOR PLANS - LIGHTING
A100 - SCHEDULES AND KEYED NOTES	E201- FLOOR PLANS - POWER AND SYSTEMS
A101 - BUILDING PLAN	E301- ELECTRICAL RISER DIAGRAM
A102 - ENLARGED FLOOR PLAN	E401- ELECTRICAL SCHEDULES
A103 - MAINTENANCE BUILDING PLAN, ELEVATIONS AND SECTIONS	E402- ELECTRICAL SCHEDULES
A201 - REFLECTED CEILING AND ROOF PLANS	E501- ELECTRICAL DETAILS
A301 - EXTERIOR ELEVATIONS	
A302 - EXTERIOR ELEVATIONS	
A303 - INTERIOR ELEVATIONS	
A401 - BUILDING SECTIONS	
A402 - BUILDING SECTIONS	
A403 - BUILDING SECTIONS	
A501 - WALL SECTIONS	
A502 - WALL SECTIONS	
A601 - DETAILS	
STRUCTURAL:	
S1- STRUCTURAL PLANS	
S2- SECTIONS AND DETAILS	
S3- SECTIONS AND DETAILS	
S4- MAINTENANCE BUILDING PLANS AND SECTIONS	
S5- GENERAL NOTES	
MECHANICAL:	
M001- GENERAL NOTES AND MECHANICAL DETAILS	
M100- BELOW GRADE PLUMBING AND FIRE SUPPRESSION	
M101- MAIN LEVEL PLUMBING AND FIRE SUPPRESSION	
M201- MAIN LEVEL HEATING	
M301- PLUMBING SCHEDULES	
M302- HVAC SCHEDULES	
M401- FIRE SUPPRESSION, PLUMBING AND HVAC DETAILS	
M402- HVAC DETAILS	

NOTES:

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 CITY OF COON RAPIDS, MN
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 WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLD, ANC

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 PROJECT INDEX

SHEET NO:
A000

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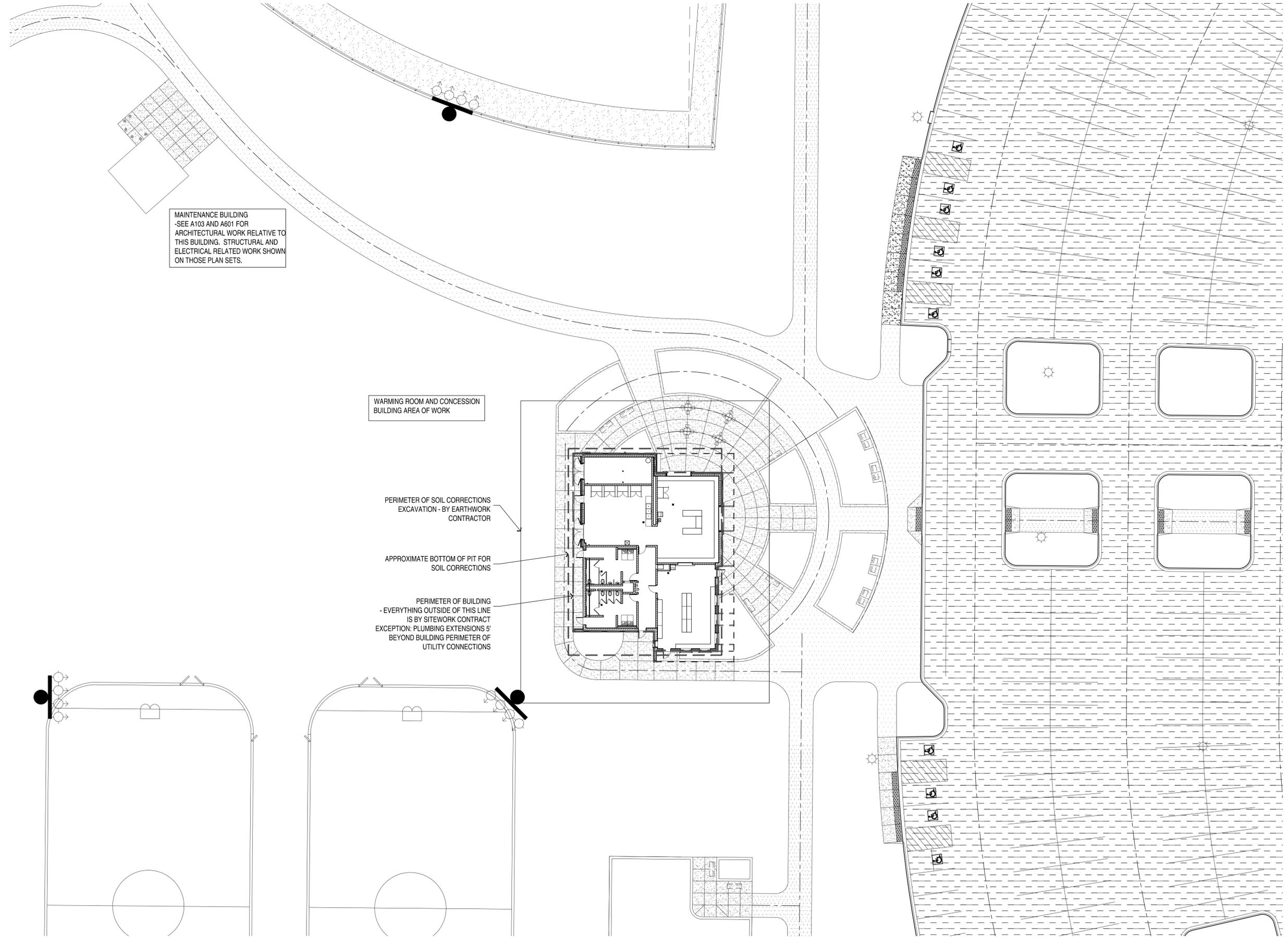
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MAINTENANCE BUILDING
 -SEE A103 AND A601 FOR
 ARCHITECTURAL WORK RELATIVE TO
 THIS BUILDING. STRUCTURAL AND
 ELECTRICAL RELATED WORK SHOWN
 ON THOSE PLAN SETS.

WARMING ROOM AND CONCESSION
 BUILDING AREA OF WORK

PERIMETER OF SOIL CORRECTIONS
 EXCAVATION - BY EARTHWORK
 CONTRACTOR

APPROXIMATE BOTTOM OF PIT FOR
 SOIL CORRECTIONS

PERIMETER OF BUILDING
 - EVERYTHING OUTSIDE OF THIS LINE
 IS BY SITEWORK CONTRACTOR
 EXCEPTION: PLUMBING EXTENSIONS 5'
 BEYOND BUILDING PERIMETER OF
 UTILITY CONNECTIONS

1 SITE PLAN
 REFERENCE ONLY
 1" = 20'

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SHEET NAME:
REFERENCE
SITE PLAN

SHEET NO:
A001



1 IMAGE 1
FROM PARKING - WARMING ROOM AND CONCESSION



2 IMAGE 2
CONCESSION SALES AND PICNIC TABLES



3 IMAGE 3
FROM SKATING RINKS



4 IMAGE 4
WARMING ROOM / PROGRAM SPACE ENTRY AND CONCESSION SALES

PLOT SCALE

PRINTED: 

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A002

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1 IMAGE 1
WARMING ROOM INTERIOR - LOOKING NORTH



2 IMAGE 2
WARMING ROOM INTERIOR LOOKING SOUTH



3 IMAGE 3
WARMING ROOM INTERIOR - SOUTHWEST CORNER



4 IMAGE 4
WARMING ROOM INTERIOR - NORTH EAST CORNER

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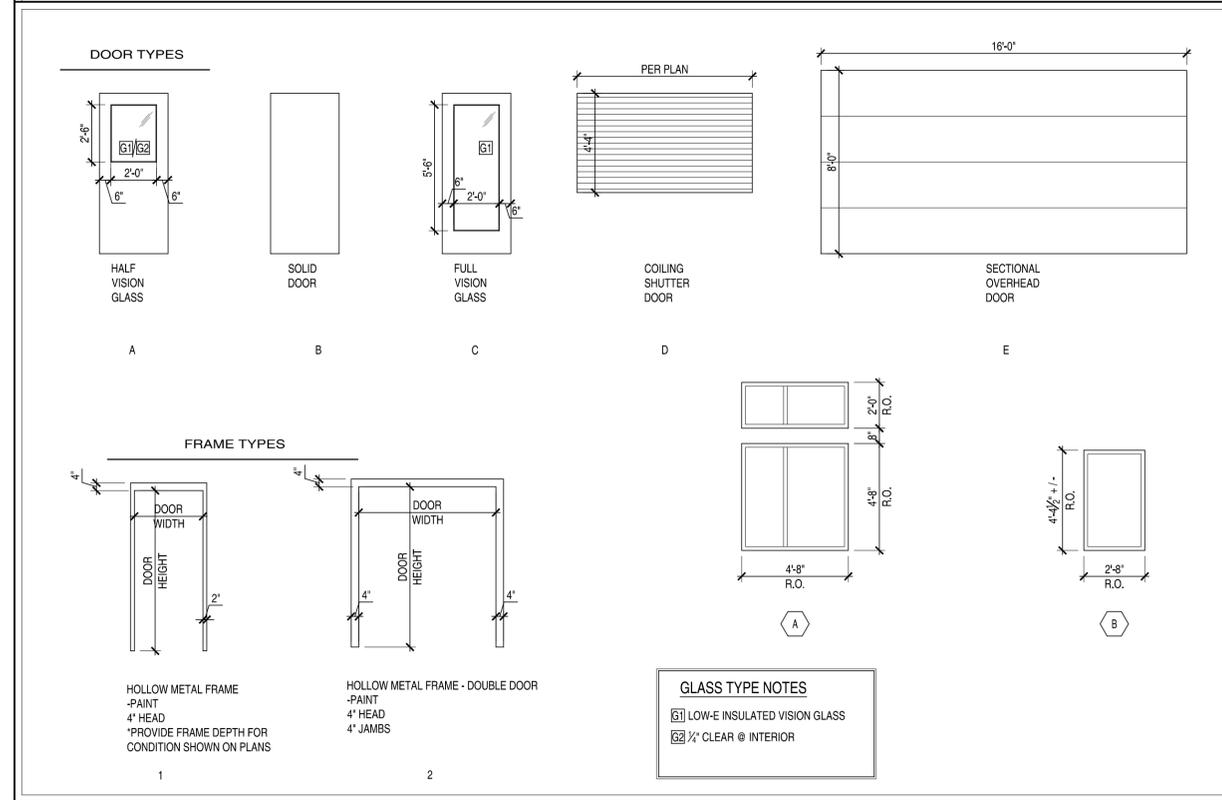
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DOOR AND FRAME TYPES SCHEDULE



DOOR AND FRAME SCHEDULE

ROOM NO.	WIDTH	HEIGHT	THICKNESS	DOOR MAT'L	DOOR TYPE	FRAME MAT'L	FRAME TYPE	HARDWARE GROUP	FIRE LABEL	NOTES
100A	3'-0"	7'-0"	1 3/4"	H.M.	C	H.M.	1	1		EXTERIOR
100B	3'-0"	7'-0"	1 3/4"	H.M.	C	H.M.	1	1		EXTERIOR
100C	3'-0"	7'-0"	1 3/4"	H.M.	A	H.M.	1	4	-	INTERIOR
101	3'-0"	7'-0"	1 3/4"	H.M.	A	H.M. - DEEP	1	1	-	EXTERIOR
102A	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M.	1	3	-	INTERIOR
102B	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M.	1	2	-	EXTERIOR
103A	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M.	1	3	-	INTERIOR
103B	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M.	1	2	-	EXTERIOR
104	PER PLAN	4'-4"	-	MTL	D	MTL	-	-	-	COILING SHUTTER COUNTER DOOR - INSULATED AT EXTERIOR LOCATIONS
105A	3'-0"	7'-0"	1 3/4"	H.M.	A	H.M.	1	4	-	INTERIOR, SECURITY GLASS
105B (2)	3'-0"	7'-0"	1 3/4"	H.M.	A	H.M.	2	5	-	EXTERIOR, 180 SWING BOTH DOORS
105C	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M. - DEEP	1	6	-	EXTERIOR
106 (2)	3'-0"	7'-0"	1 3/4"	H.M.	A	H.M.	2	5	-	EXTERIOR, 180 SWING BOTH DOORS
A	3'-0"	7'-0"	1 3/4"	H.M.	B	H.M.	1	6	-	MAINTENANCE BUILDING
B	16'-0"	8'-0"	-	MTL	E	-	-	-	-	SECTIONAL OVERHEAD DOOR

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		BASE	WALL								CEILING			REMARKS
		MAT'L	FINISH		NORTH		WEST		SOUTH		EAST		MAT'L	FINISH	HEIGHT	
					MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH				
100	WARMING AND PROGRAM ROOM	CONCRETE	RUBBER	VINYL	CMU/WD	PLASTER	CMU	WOOD TNG	CMU/WD	PLASTER	CMU	WOOD TNG	WOOD	STAIN	VARIES	-
101	HALL	CONCRETE	RUBBER	VINYL	CMU	PLASTER	CMU	PLASTER	CMU	PLASTER	CMU	PLASTER	LAY-IN	-	8'-0"	LAY-IN TILE W/ HOLD DOWN CLIPS
102	WOMEN'S RESTROOM	CONCRETE	RUBBER	VINYL	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	LAY-IN / GYP	-	SEE PLAN	LAY-IN TILE W/ HOLD DOWN CLIPS
103	MEN'S RESTROOM	CONCRETE	RUBBER	VINYL	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	LAY-IN / GYP	-	PER PLAN	LAY-IN TILE W/ HOLD DOWN CLIPS
104	CONCESSION SALES	CONCRETE	QUARRY	QUARRY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	LAY-IN	-	9'-4"	KITCHEN SAFE LAY-IN TILE W/ HOLD DOWN CLIPS
105	CONCESSION PREP AND STORAGE	CONCRETE	QUARRY	QUARRY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	CMU	TILE/EPOXY	LAY-IN	-	9'-4"	KITCHEN SAFE LAY-IN TILE W/ HOLD DOWN CLIPS
106	MECHANICAL AND ELECTRICAL	CONCRETE	LT. BROOM	VINYL	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	LAY-IN	-	8'-8"	ATTIC ACCESS LOCATED IN THIS CEILING

CEILINGS:
 ALL CEILING FINISHES IN CONCESSIONS AREA AND RESTROOMS SHALL BE COMPLIANT WITH MINNESOTA DEPARTMENT OF HEALTH REQUIREMENTS FOR LEVEL OF FOOD PREPARATION AND SALES ASSOCIATED WITH THIS FACILITY.
 ALL CEILINGS HAVE A VAPOR RETARDER AND INSULATION ABOVE. COORDINATE INSTALLATION / LOCATION OF ACCESSIBLE CEILING TILES AND/OR ACCESS PANELS WHERE NECESSARY FOR MECHANICAL, ELECTRICAL EQUIPMENT ACCESS AND ATTIC ACCESS.

PAINT SCHEDULE:
 ITEMS REQUIRING PAINT AS NOTED IN PLAN NOTES. (INCLUDE BUT NOT LIMITED TO AS NOTED BELOW)

HOLLOW METAL DOORS, DOOR FRAMES AND WINDOW FRAMES	TYPE OF PAINT	COLOR
ANY EXPOSED STEEL LINTELS	MARINE GRADE HIGH GLOSS	TBD
WALLS	MARINE GRADE HIGH GLOSS	TBD
CEILINGS	PER SPEC/SCHEDULED	TBD
	PAINT AND STAIN PER SPEC/SCHEDULED	TBD

*SEE ARCHITECTURAL FLOOR FINISH PLAN FOR NUMBER OF PAINT COLORS AND LOCATION OF PAINT COLORS. COLOR SCHEDULE TO BE PROVIDED BY ARCHITECT DURING SHOP DRAWING PHASE FOR DRAW DOWN REVIEW

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 DATE: APRIL 10, 2015
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REVISIONS:

SHEET NAME:
DOOR, WINDOW AND ROOM FINISH SCHEDULES

SHEET NO:
A100

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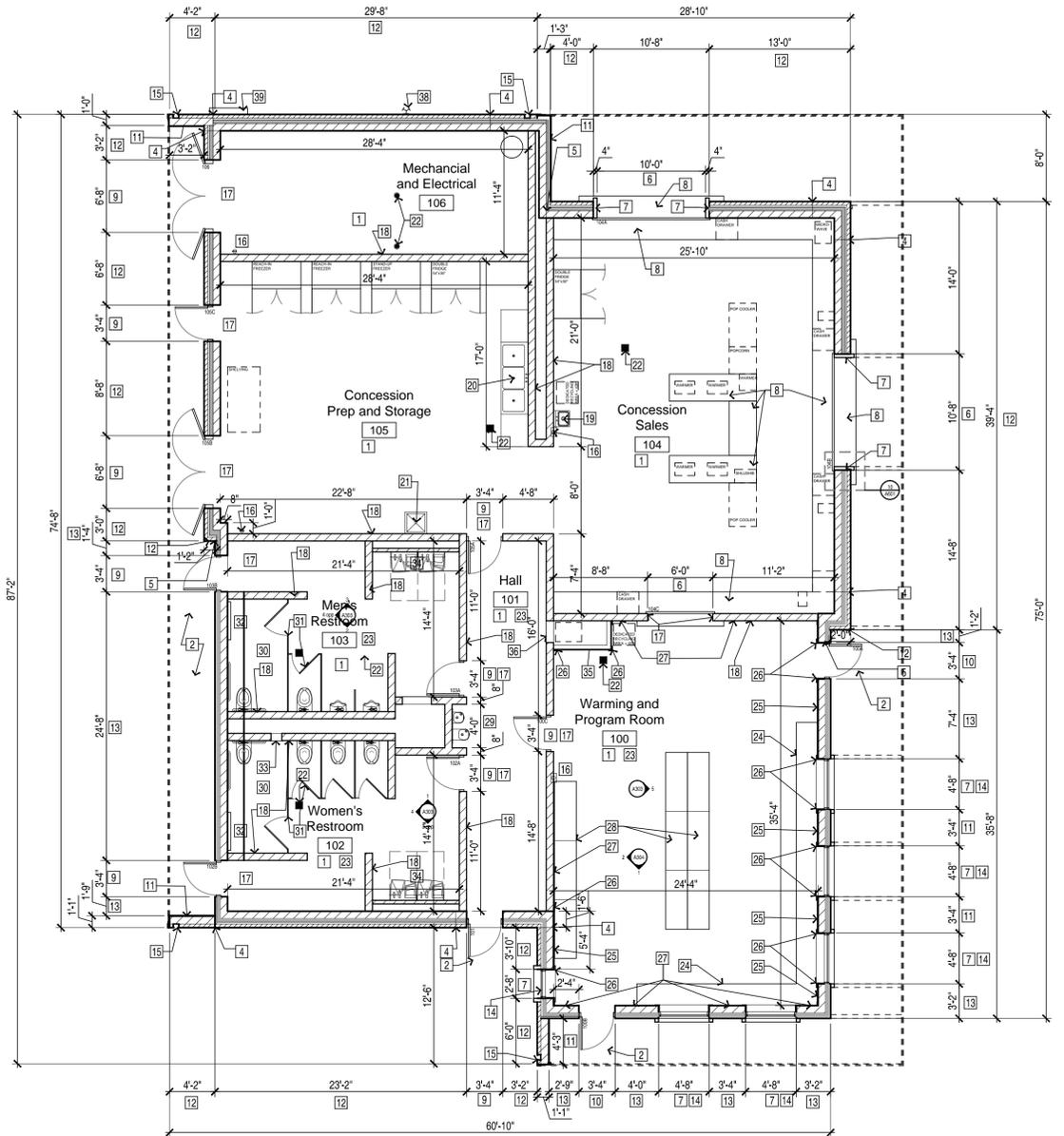
FILE NAME:

PLAN NOTES

GENERAL NOTES:

- ALL WORK SHOWN THE BUILDING PLANS ARE THE RESPONSIBILITY OF THE BUILDING CONTRACTOR, INCLUDING EXTERIOR PAVING THAT IS SHOWN AND NOTED. ALL OTHER SITE PAVING IS BY SITE WORK CONTRACTOR.
 - ALL PRE-FINISHED METAL TO COLOR MATCH. ALL METAL IS ALUMINUM UNLESS NOTED OTHERWISE ON DRAWINGS. SPECIFIED AND APPROVED BY THE ARCHITECT. PROVIDE GAUGE(S), THICKNESS(ES) AS APPROPRIATE FOR APPLICATIONS SHOWN OR AS SPECIFIED.
 - ALL ELECTRICAL CONDUIT AND PLUMBING SHALL BE INSTALLED WITHIN BLOCK WALLS. ACCESS PANELS AS REQUIRED BY THIS INSTALLATION ARE PER PROJECT SPECIFICATIONS AND WILL BE FIELD LOCATED, UNLESS ALREADY NOTED ON FLOOR PLANS, REFLECTED CEILING PLANS OR INTERIOR ELEVATIONS. ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATE ALL INSTALLATIONS WITH MASON TO VERIFY CONCRETE BLOCK CORE FILLS, BOND BEAMS, ETC.
- 1 CONCRETE SLAB ON GRADE. SEE STRUCTURAL FOR SLAB THICKNESS AND REINFORCEMENT DETAILS. UNDER ALL PORTIONS OF FLOOR THAT ARE ON GRADE, PROVIDE A VAPOR RETARDER DIRECTLY UNDERNEATH CONCRETE SLAB.
 - 2 PORTION OF CONCRETE SLAB IS A STRUCTURAL STOOP. SEE STRUCTURAL FOR CONSTRUCTION. FLOOR FINISH AS SCHEDULED SHALL BE APPLIED TO THIS PORTION OF FLOOR.
 - 3 EXTERIOR CONCRETE PAVING - BY BUILDING CONTRACTOR. JOINT PATTERN AS SHOWN OR AS DETERMINED WITH COORDINATION WITH ARCHITECT PRIOR TO CONSTRUCTION.
 - 4 THROUGH WALL CONTROL JOINT IN MASONRY BACK UP AND VENEERED WALL. ROD AND SEALANT AT BOTH SIDES.
 - 5 THROUGH WALL CONTROL JOINT IN MASONRY BACK UP WALL. ROD AND SEALANT AT INTERIOR SIDE. EXTERIOR SHALL BE WATER-PROOFED IN ACCORDANCE WITH WATERPROOFING MANUFACTURER / PROVIDER STANDARD DETAILS. SIDING INSTALLATION SHALL COORDINATE INSTALLATION WITH THESE LOCATIONS. SEE DETAILS.
 - 6 STAINLESS STEEL COILING SHUTTER AT CONCESSION WINDOW. SEE SPECIFICATION FOR MODEL INFORMATION. COORDINATE INSTALLATION WITH STRUCTURAL JAMB AND LINTEL DETAILS.
 - 7 WOOD TRIM / SURROUND AT WINDOW OPENING - STAIN ALL. SEE ELEVATIONS FOR ADDITIONAL NOTES AND DETAIL REFERENCES.
 - 8 STAINLESS STEEL COUNTER TOP ON STAINLESS STEEL LEGS / SUPPORTS AS REQUIRED FOR INSTALLATION WITH CONDITIONS SHOWN. SEE INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
-AT EXTERIOR, PROVIDE STAINLESS STEEL COUNTER EXTENSIONS AS DIMENSIONED. SEE SECTIONS AND DETAILS FOR MORE INFORMATION. COUNTER TOP PROVIDER SHALL VERIFY ATTACHMENT AND SUPPORT DETAILS AS PART OF THE INSTALLATION.
 - 9 HOLLOW METAL DOOR AND FRAME - PAINT. PROVIDE 1x WOOD TRIM AROUND PERIMETER OF ENTIRE OPENING AND RETURN WOOD TRIM TO DOOR FRAME. STAIN ALL.
 - 10 ALUMINUM ENTRY (FRAME AND DOOR). PROVIDE 1x WOOD TRIM AROUND PERIMETER OF ENTIRE OPENING AND RETURN WOOD TRIM TO DOOR FRAME. STAIN ALL.
 - 11 1x TONGUE AND GROVE (TNG) CEDAR SIDING - STAIN. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL NOTES AND DETAIL REFERENCES FOR ATTACHMENT AND WALL CONDITIONS.
 - 12 HALF COURSE BURNISHED BLOCK MASONRY VENEER, LAID AT QUARTER BOND WITH WEATHERED HORIZONTAL JOINTS AND FLUSH VERTICAL JOINTS.
 - 13 BEVELED CEDAR LAP SIDING WITH 4" EXPOSURE. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL NOTES AND DETAIL REFERENCES FOR ATTACHMENT AND WALL CONDITIONS.
 - 14 PRE-FINISHED WINDOW SYSTEM - SEE SCHEDULE.
 - 15 RECESSED, PRE-FINISHED METAL DOWNSPOUT - SEAL BETWEEN METAL AND BURNISHED BLOCK
 - 16 FIRE EXTINGUISHER. PROVIDE MASONRY RECESS FOR FIRE EXTINGUISHER CABINET IN ANY PUBLIC AREA. VERIFY SIZE WITH FIRE EXTINGUISHER PROVIDER. COORDINATE RECESS WITH STRUCTURAL DETAILS FOR DOOR OPENINGS. VERIFY LOCATION WITH MECHANICAL AND ELECTRICAL EQUIPMENT INSTALLATION LOCATIONS. PROVIDE WALL MOUNT AT ALL OTHER LOCATIONS.
 - 17 ADJACENT WALL FINISHES SHALL RETURN TO DOOR FRAME, TYPICAL AT ALL DOOR OPENINGS.
 - 18 8" CONCRETE BLOCK WALL (UNLESS NOTED OTHERWISE - U.N.O.) - FINISH PER ROOM FINISH SCHEDULE
 - 19 STAINLESS STEEL HANDSINK - SEE MECHANICAL.
 - 20 STAINLESS STEEL THREE - COMPARTMENT SINK - SEE MECHANICAL.
 - 21 FLOOR SINK WITH ADJACENT WALL PANEL FINISH - SEE MECHANICAL.

- 22 FLOOR DRAIN - SEE MECHANICAL. COORDINATE WITH FLOOR FINISH INSTALLATION
- 23 RUBBER FLOORING - FULLY ADHERED TO FLOOR.
- 24 2x CEDAR BENCH SEATING ON PRE-FINISHED METAL BRACKETS. STAIN ALL WOOD.
- 25 1x TNG CEDAR WALL PANELING - STAIN ALL. SEE INTERIOR ELEVATIONS.
- 26 1x WOOD TRIM - STAIN. SEE ELEVATIONS.
- 27 PLASTER / TEXTURED WALL COATING FINISH - PAINT. WALL COATING OCCURS ON BLOCK WALL AND WOOD FRAMED / SHEATHED WALL. FINISHED SURFACE SHALL BE THE SAME REGARDLESS OF STRUCTURAL SUBSTRATE. PROVIDE HORIZONTAL JOINT AT WALL MATERIAL CHANGE. SEE INTERIOR ELEVATIONS.
- 28 MILLWORK WOOD BENCHES. SEE INTERIOR ELEVATIONS AND DETAILS FOR CONSTRUCTION INFORMATION. THESE BENCHES ARE NOT FIXED TO THE FLOOR.
- 29 DUAL HEIGHT ADA DRINKING FOUNTAIN - SEE MECHANICAL.
- 30 PROVIDE ADA GRAB BARS, AND ACCESSIBLE TOILET ACCESSORIES PER PROJECT SPECIFICATIONS.
- 31 PRE-FINISHED TOILET AND URINAL PARTITIONS. SUPPORT AS REQUIRED BY MANUFACTURER TO SATISFY CONDITIONS SHOWN. COORDINATE ATTACHMENT TO WALL AND FLOOR WITH INTERIOR FINISHES.
- 32 WALL MOUNTED BABY-CHANGING STATION.
- 33 12" x 12" MASONRY VOID AND ACCESS PANEL FOR WASTE CLEAN-OUT ACCESS. SEE MECHANICAL.
- 34 ALL-IN-ONE WASH STATION. SEE MECHANICAL AND ELECTRICAL. ARCHITECT TO SELECT MATERIAL FINISH.
- 35 2x WOOD FRAMED FURNACE ENCLOSURE, WITH 1x CEDAR TNG WALL PANELING FINISH AND PERIMETER WOOD TRIM AT ALL EDGES. SEE MECHANICAL FOR FURNACE INFORMATION AND RETURN GRILLE SIZE NEAR CEILING. FINAL ENCLOSURE SIZE TO BE VERIFIED WITH FURNACE PROVIDER AND INSTALLATION.
- 36 24" WIDE x 48" TALL MINIMUM SECURED ACCESS PANEL FOR FURNACE SERVICE. SEE MECHANICAL VERIFY FINAL DIMENSIONS OF ACCESS PANEL TO BE DETERMINED BY FURNACE MODEL AND INSTALLATION, AND FUTURE MAINTENANCE PROCEDURES.
- 37 32" WIDE x 32" TALL MINIMUM SECURED ACCESS PANEL FOR CHASE ACCESS SERVICE. SEE MECHANICAL VERIFY FINAL DIMENSIONS OF ACCESS PANEL TO BE DETERMINED MAINTENANCE PROCEDURES FOR EQUIPMENT LOCATED IN CHASE.
- 38 FIRE DEPARTMENT CONNECTION.
- 39 GAS METER LOCATION - SEE MECHANICAL.



1 FLOOR PLAN

1/8" = 1'-0"

NOTES:

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FLOOR PLANS
PLAN NOTES

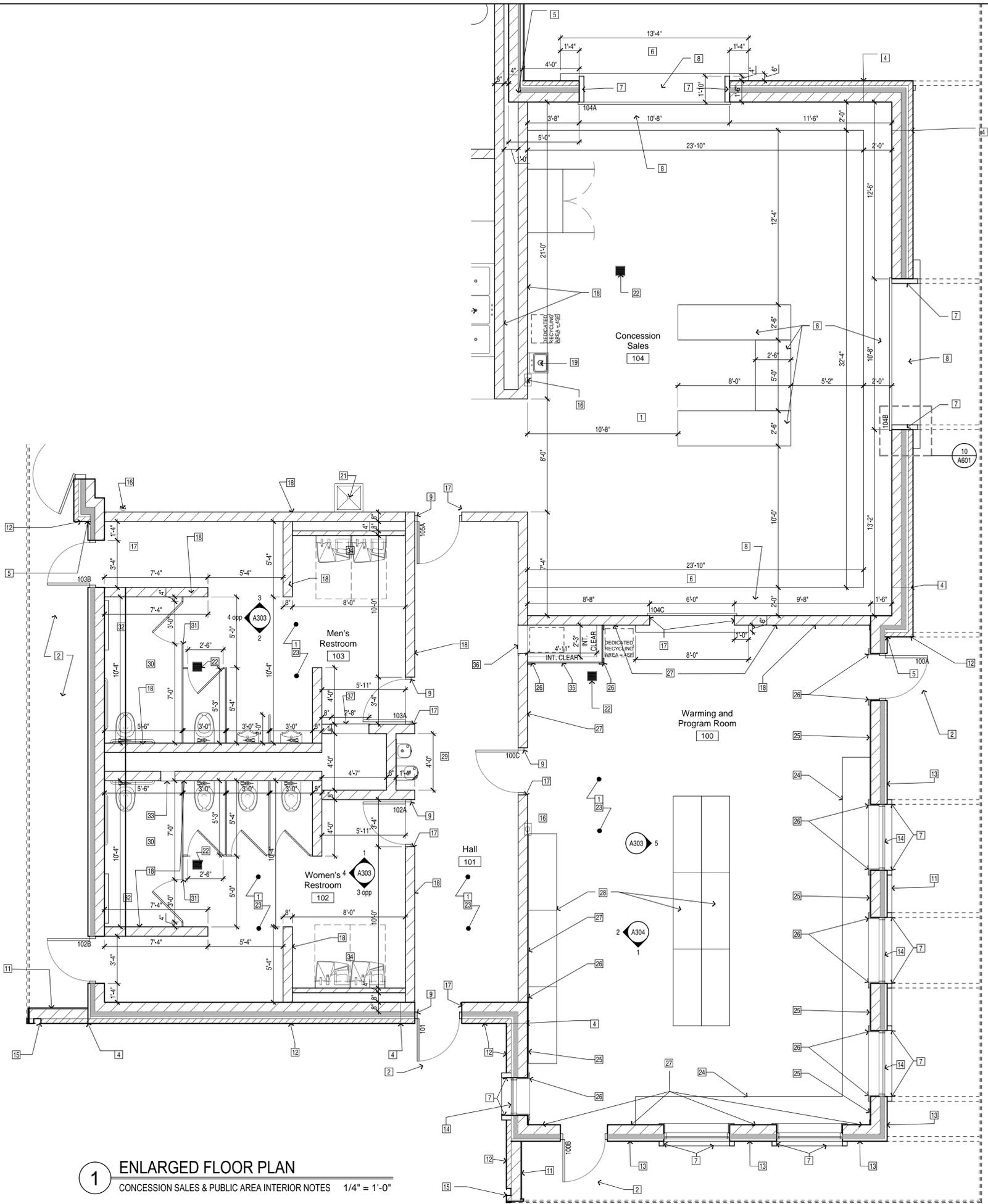
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1 ENLARGED FLOOR PLAN
 CONCESSION SALES & PUBLIC AREA INTERIOR NOTES 1/4" = 1'-0"

NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:	14-22
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLO, ANC

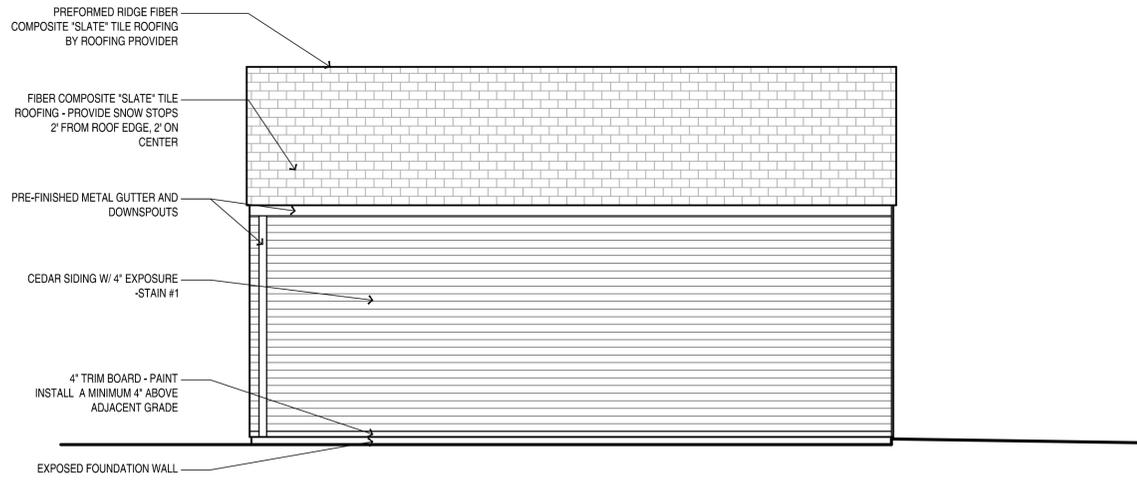
I HEREBY CERTIFY THAT THIS DRAWING AND ALL WORK SHOWN THEREON WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT

[Signature]
 DATE: APRIL 10, 2015
 LICENSE NUMBER: 18640

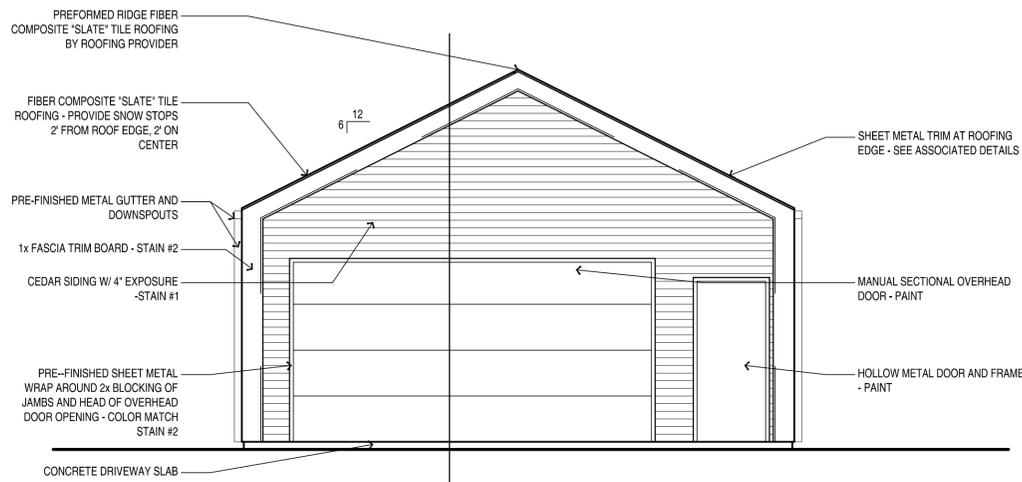
REVISIONS:

SHEET NAME:
ENLARGED PLANS

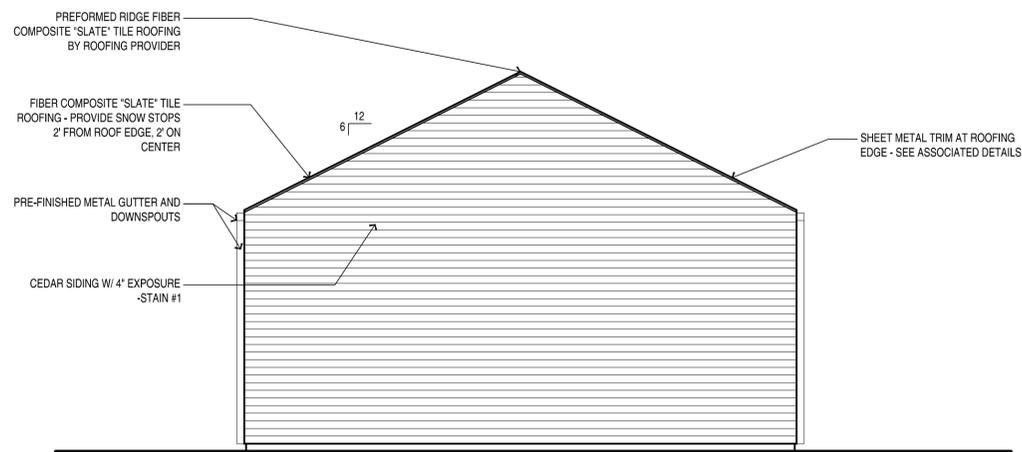
SHEET NO:
A102



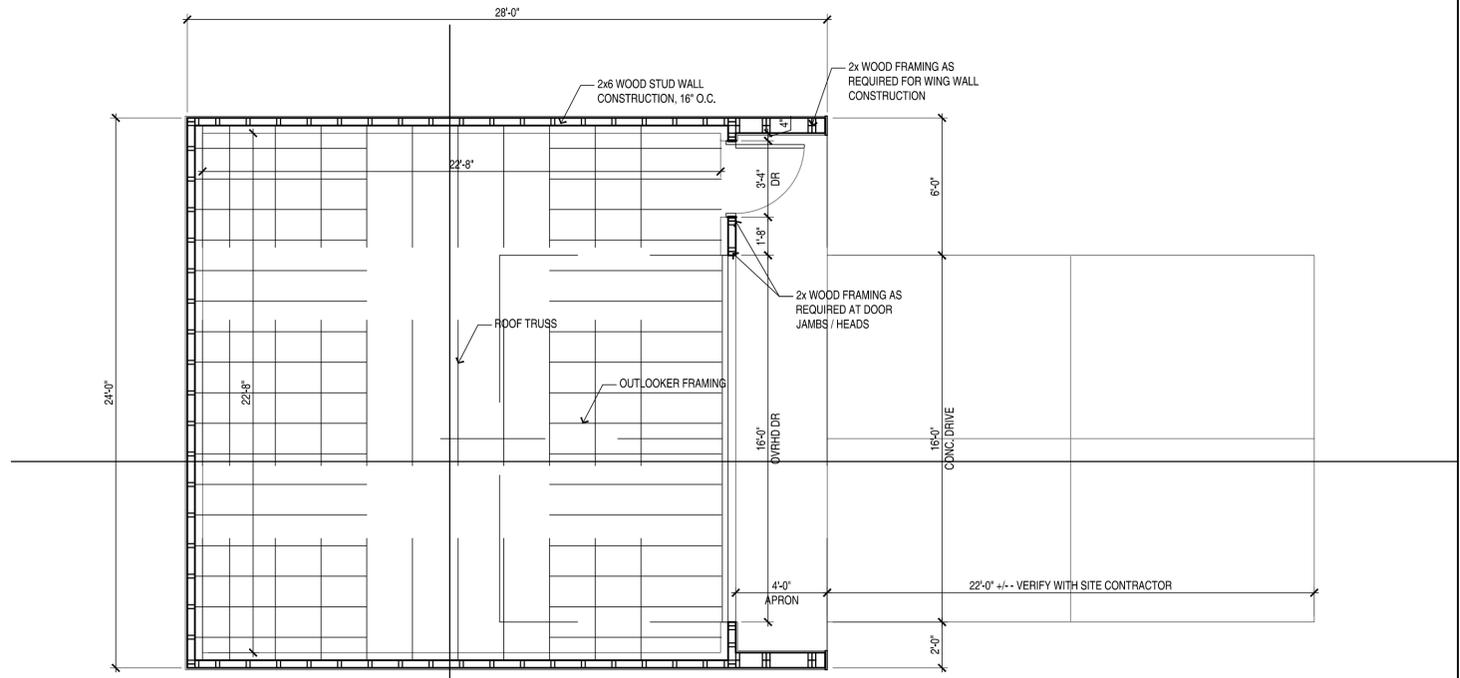
2 EXTERIOR ELEVATION
LONGITUDINAL ELEVATION 1/4" = 1'-0"



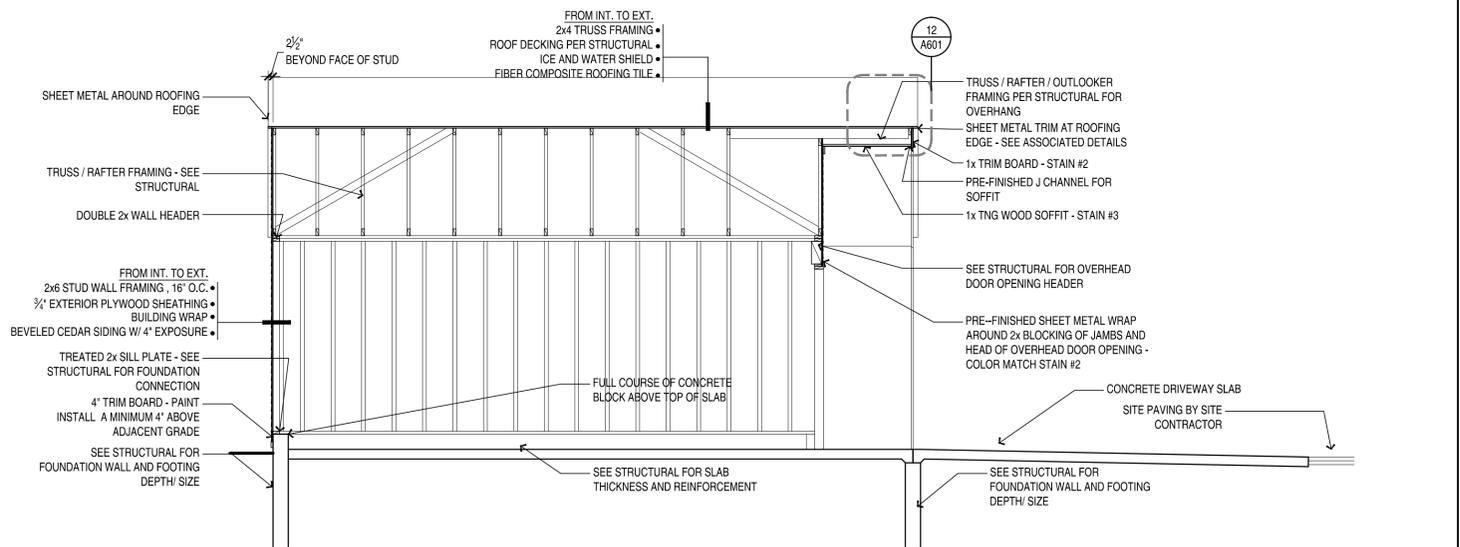
3 EXTERIOR ELEVATION
FRONT ELEVATION 1/4" = 1'-0"



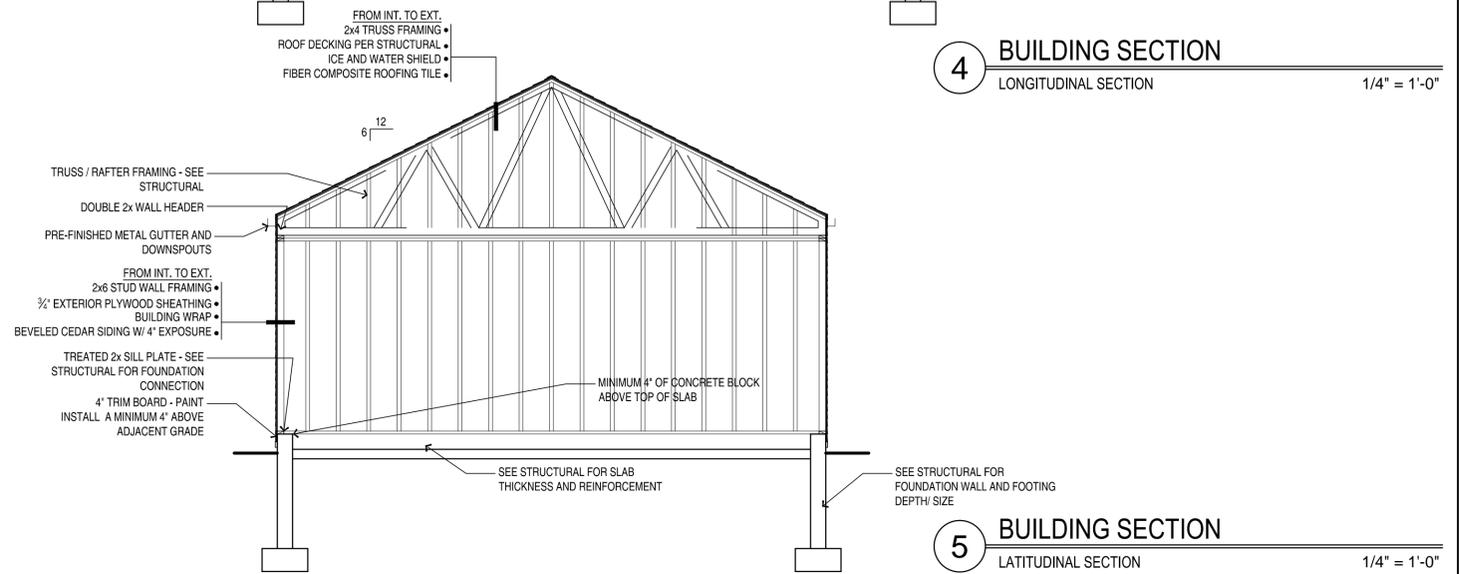
3 EXTERIOR ELEVATION
REAR ELEVATION 1/4" = 1'-0"



1 FLOOR PLAN
MAINTENANCE BUILDING PLAN 1/4" = 1'-0"



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



5 BUILDING SECTION
LATITUDINAL SECTION 1/4" = 1'-0"

PLOT SCALE:

PRINTED:

FILE NAME:

NOTES:

PROJECT NUMBER:	14-22
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLD, ANC

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, PREPARED, AND SUPERVISED UNDER MY DIRECT AND PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT

DATE: APRIL 10, 2015
SCALE: 1/8" = 1'-0"

REVISIONS:

NO.	DESCRIPTION

SHEET NAME:
MAINTENANCE BUILDING

SHEET NO:
A103



NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:	14-22
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLD, ANC

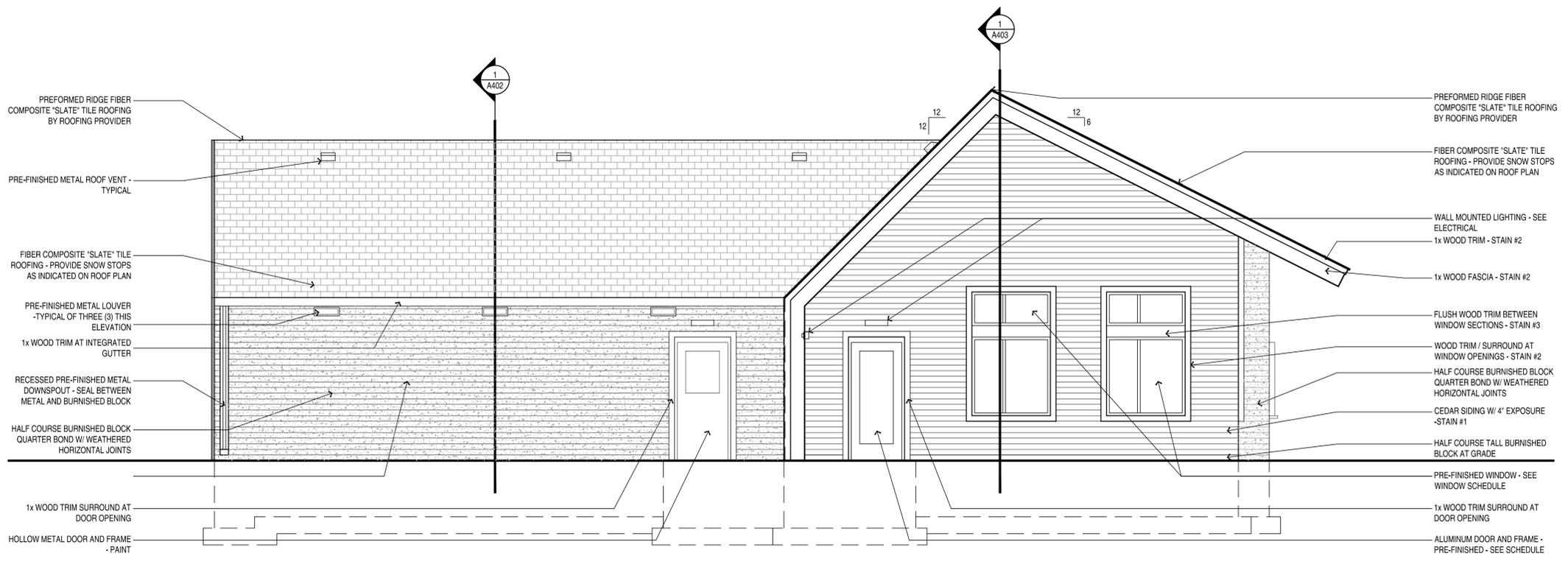
I HEREBY CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT

[Signature]
 DATE: APRIL 10, 2015
 LICENSE NUMBER: 18840

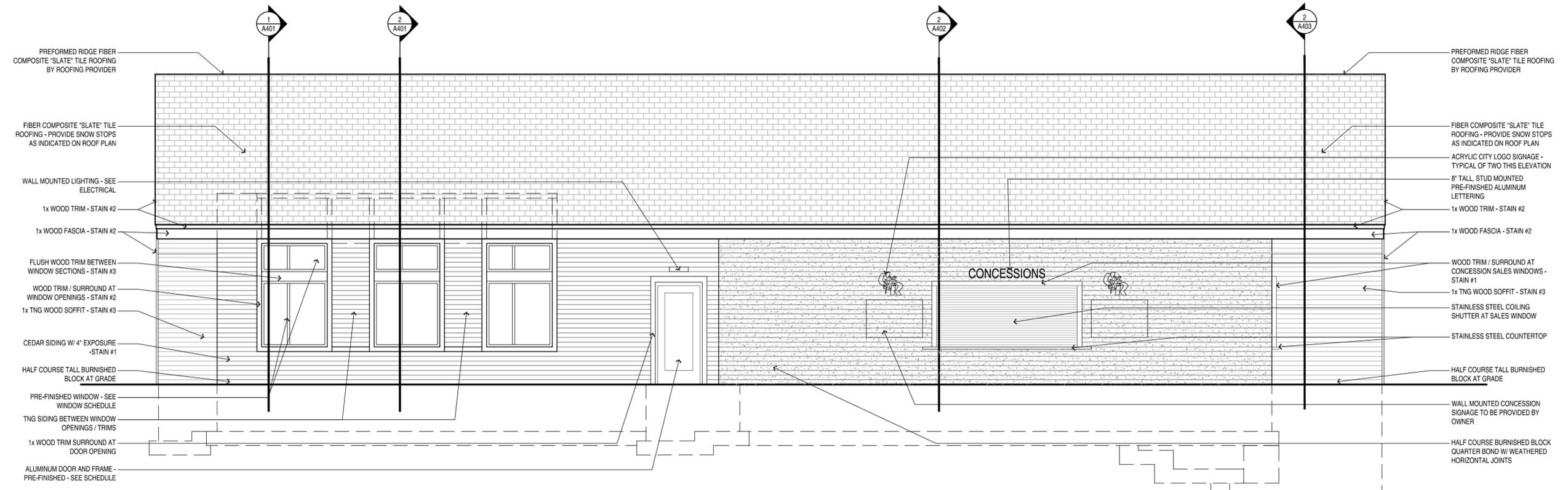
REVISIONS:

SHEET NAME:
EXTERIOR ELEVATIONS

SHEET NO:
A301



1 EXTERIOR ELEVATION
 SOUTH ELEVATION
 1/4" = 1'-0"

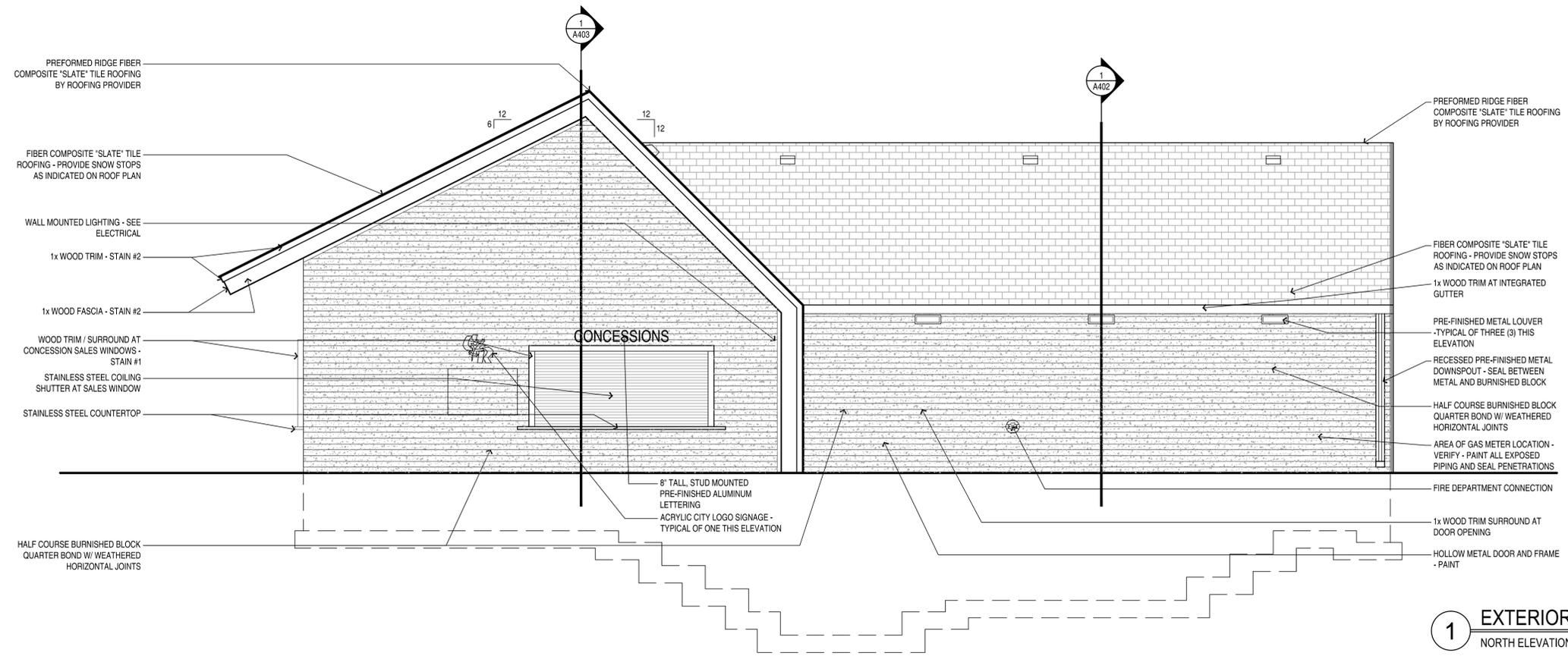


2 EXTERIOR ELEVATION
 EAST ELEVATION
 1/4" = 1'-0"

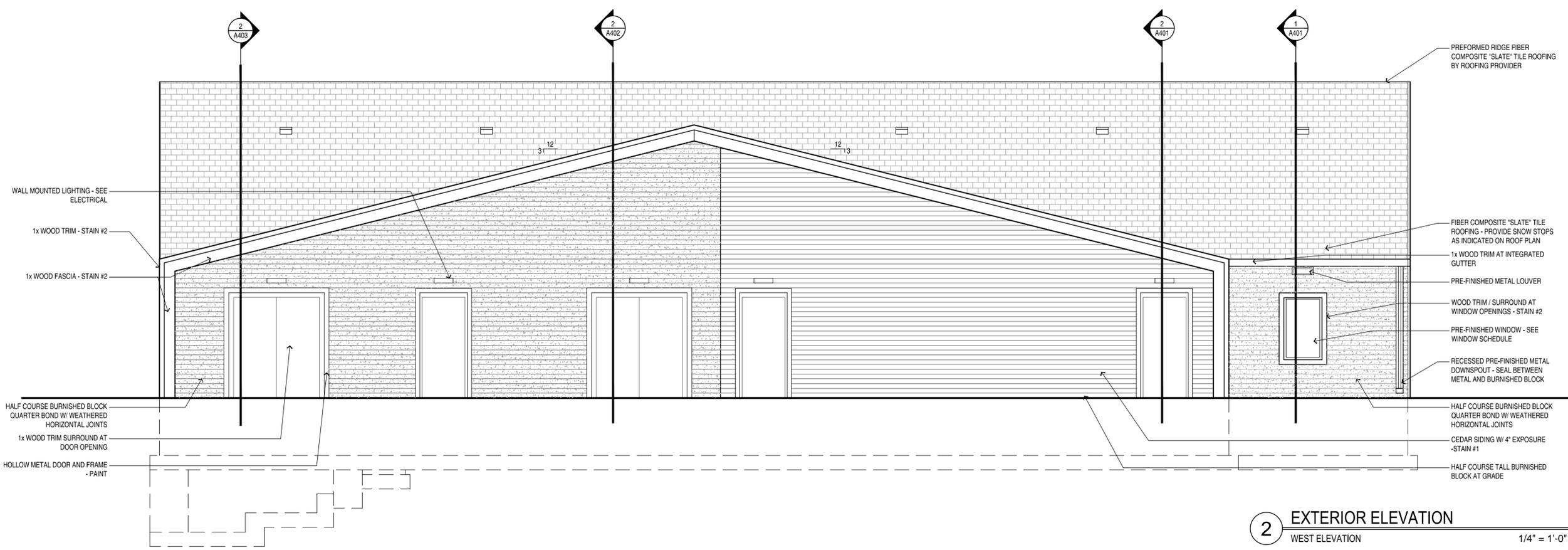
PLOT SCALE:

PRINTED:

FILE NAME:



1 EXTERIOR ELEVATION
NORTH ELEVATION 1/4" = 1'-0"



2 EXTERIOR ELEVATION
WEST ELEVATION 1/4" = 1'-0"

PLOT SCALE:

PRINTED:

FILE NAME:

NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:	14-22
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLD, ANC

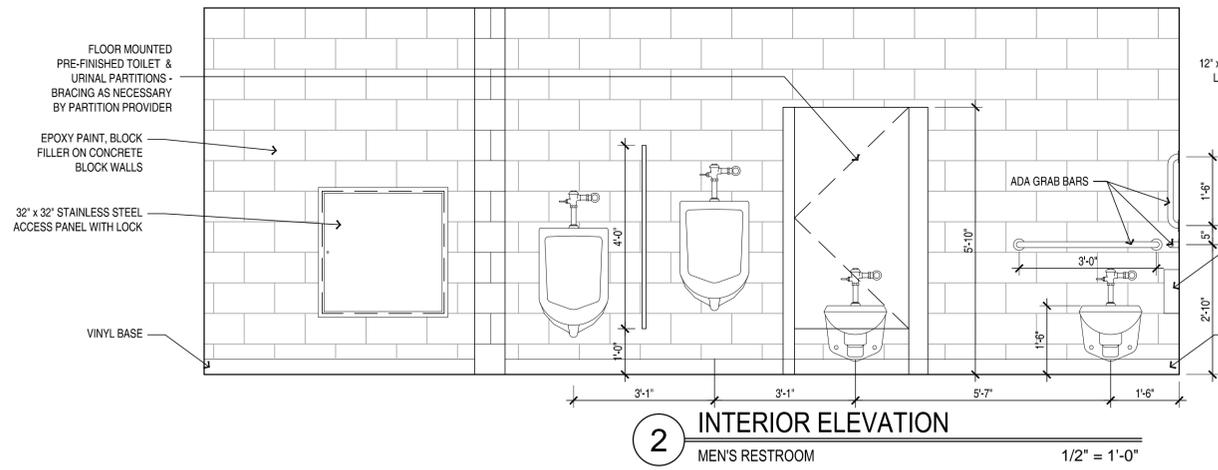
I HEREBY CERTIFY THAT THIS DRAWING AND ALL WORK UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT

[Signature]
DATE: APRIL 10, 2015
LICENSE NUMBER: 18640

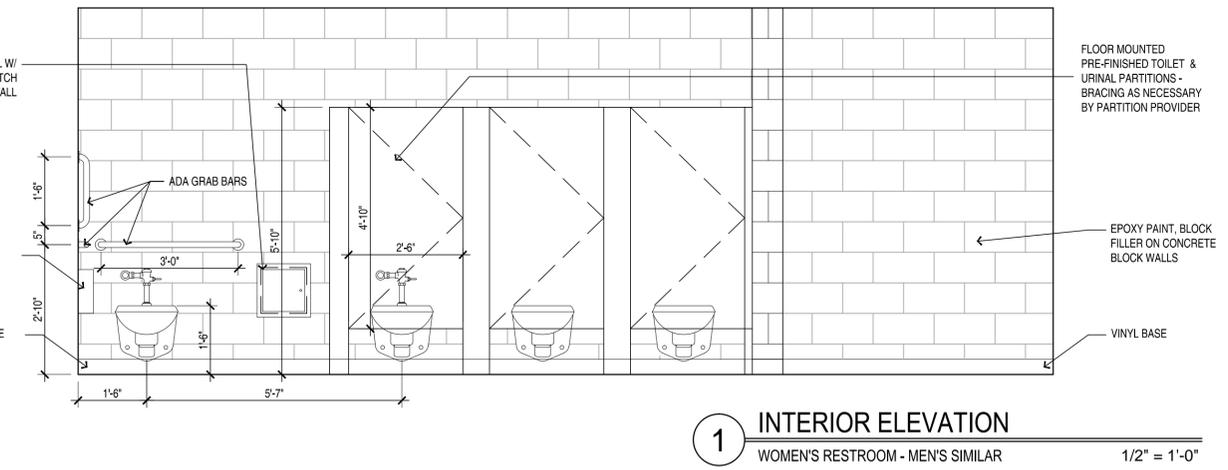
REVISIONS:

SHEET NAME:
EXTERIOR ELEVATIONS

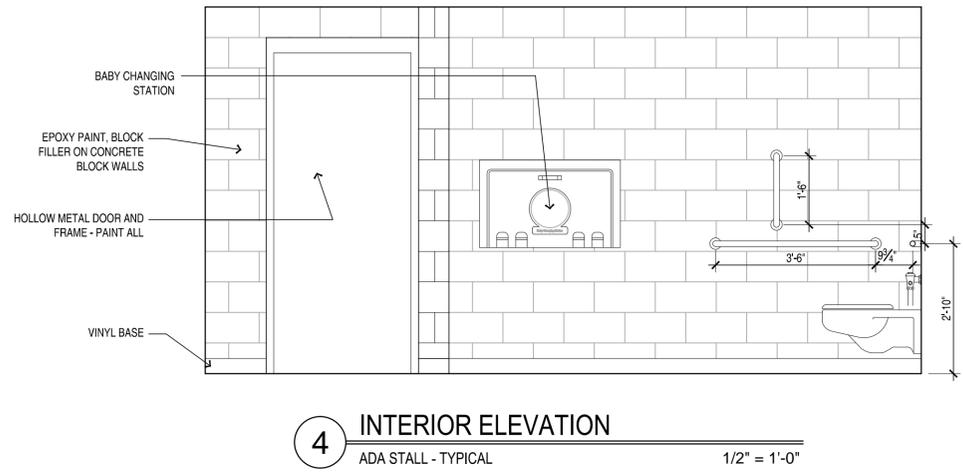
SHEET NO:
A302



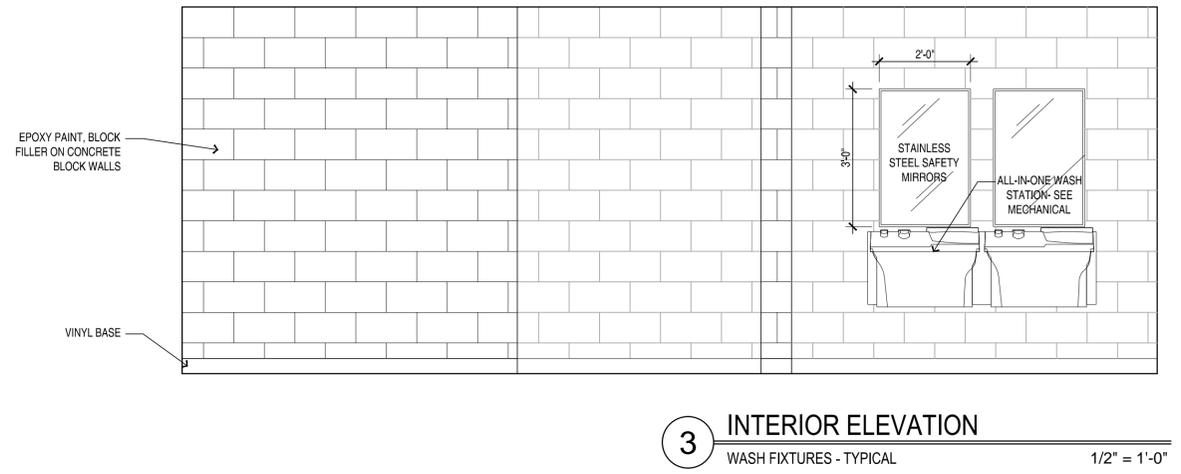
2 INTERIOR ELEVATION
MEN'S RESTROOM
1/2" = 1'-0"



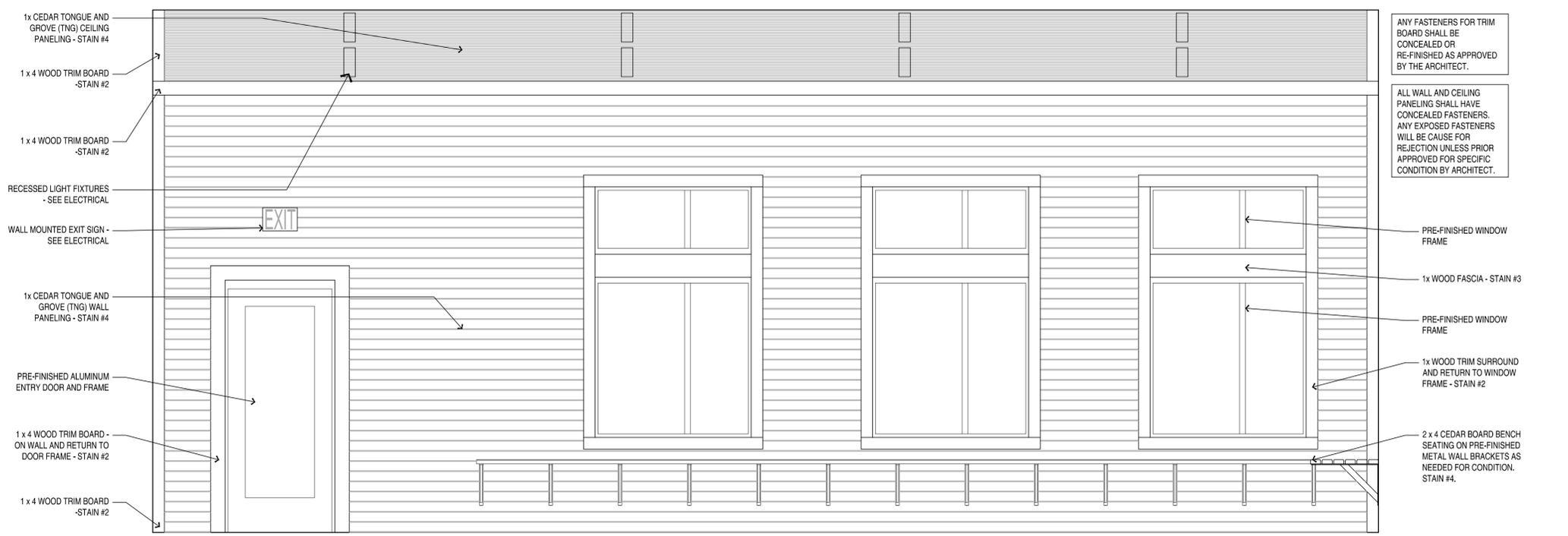
1 INTERIOR ELEVATION
WOMEN'S RESTROOM - MEN'S SIMILAR
1/2" = 1'-0"



4 INTERIOR ELEVATION
ADA STALL - TYPICAL
1/2" = 1'-0"



3 INTERIOR ELEVATION
WASH FIXTURES - TYPICAL
1/2" = 1'-0"



5 INTERIOR ELEVATION
WARMING ROOM - EAST WALL
1/2" = 1'-0"

PLOT SCALE:

PRINTED:

FILE NAME:

NOTES:

CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	ANC
CHECKED BY	JLO, ANC

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[Signature]
DATE: APRIL 10, 2015
LICENSE NUMBER: 18860

REVISIONS:

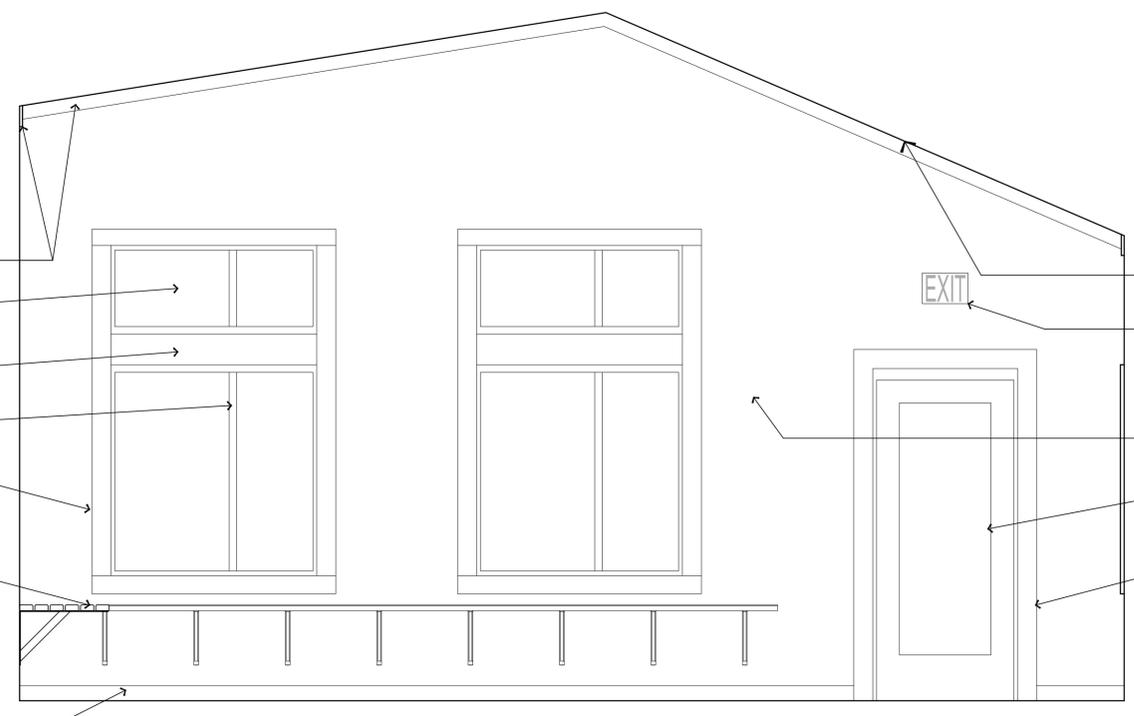
SHEET NAME:
INTERIOR ELEVATIONS

SHEET NO:
A303

ANY FASTENERS FOR TRIM BOARD SHALL BE CONCEALED OR RE-FINISHED AS APPROVED BY THE ARCHITECT.

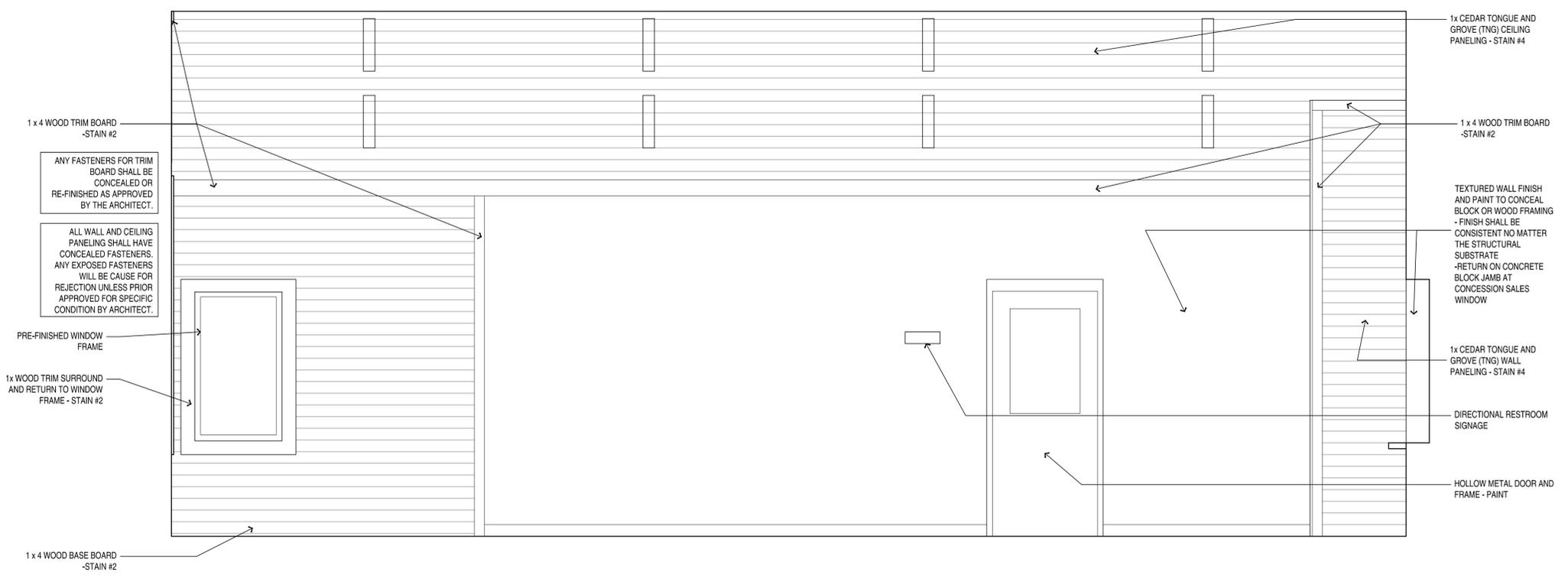
ALL WALL AND CEILING PANELING SHALL HAVE CONCEALED FASTENERS. ANY EXPOSED FASTENERS WILL BE CAUSE FOR REJECTION UNLESS PRIOR APPROVED FOR SPECIFIC CONDITION BY ARCHITECT.

- 1 x 4 WOOD TRIM BOARD -STAIN #2
- PRE-FINISHED WINDOW FRAME
- 1x WOOD FASCIA - STAIN #3
- PRE-FINISHED WINDOW FRAME
- 1x WOOD TRIM SURROUND AND RETURN TO WINDOW FRAME - STAIN #2
- 2 x 4 CEDAR BOARD BENCH SEATING ON PRE-FINISHED METAL WALL BRACKETS AS NEEDED FOR CONDITION. STAIN #4.
- 1 x 4 WOOD BASE BOARD -STAIN #2



- RECESSED LIGHT FIXTURES - SEE ELECTRICAL
- WALL MOUNTED EXIT SIGN - SEE ELECTRICAL
- TEXTURED WALL FINISH AND PAINT TO CONCEAL BLOCK OR WOOD FRAMING - FINISH SHALL BE CONSISTENT NO MATTER THE STRUCTURAL SUBSTRATE
- PRE-FINISHED ALUMINUM ENTRY DOOR AND FRAME
- 1 x 4 WOOD TRIM BOARD - ON WALL AND RETURN TO DOOR FRAME - STAIN #2

1 INTERIOR ELEVATION
 WARMING ROOM - SOUTH WALL 1/2" = 1'-0"



- 1 x 4 WOOD TRIM BOARD -STAIN #2
- PRE-FINISHED WINDOW FRAME
- 1x WOOD TRIM SURROUND AND RETURN TO WINDOW FRAME - STAIN #2
- 1 x 4 WOOD BASE BOARD -STAIN #2

- 1x CEDAR TONGUE AND GROVE (TNG) CEILING PANELING - STAIN #4
- 1 x 4 WOOD TRIM BOARD -STAIN #2
- TEXTURED WALL FINISH AND PAINT TO CONCEAL BLOCK OR WOOD FRAMING - FINISH SHALL BE CONSISTENT NO MATTER THE STRUCTURAL SUBSTRATE -RETURN ON CONCRETE BLOCK JAMB AT CONCESSION SALES WINDOW
- 1x CEDAR TONGUE AND GROVE (TNG) WALL PANELING - STAIN #4
- DIRECTIONAL RESTROOM SIGNAGE
- HOLLOW METAL DOOR AND FRAME - PAINT

2 INTERIOR ELEVATION
 WARMING ROOM - WEST WALL 1/2" = 1'-0"

NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
 SAND CREEK PARK SITE IMPROVEMENTS
 WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	ANC
CHECKED BY	JLD, ANC

I HEREBY CERTIFY THAT THIS DESIGN IS THE WORK OF MY FIRM UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT

DATE: APRIL 10, 2015
 SCALE: 1/8"=1'-0"

REVISIONS:

SHEET NAME:
INTERIOR ELEVATIONS

SHEET NO:
A304

PLOT SCALE:

PRINTED:

FILE NAME:



NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	ANC
CHECKED BY	JLD, ANC

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[Signature]
 DATE: APRIL 10, 2015
 LICENSE NUMBER: 18640

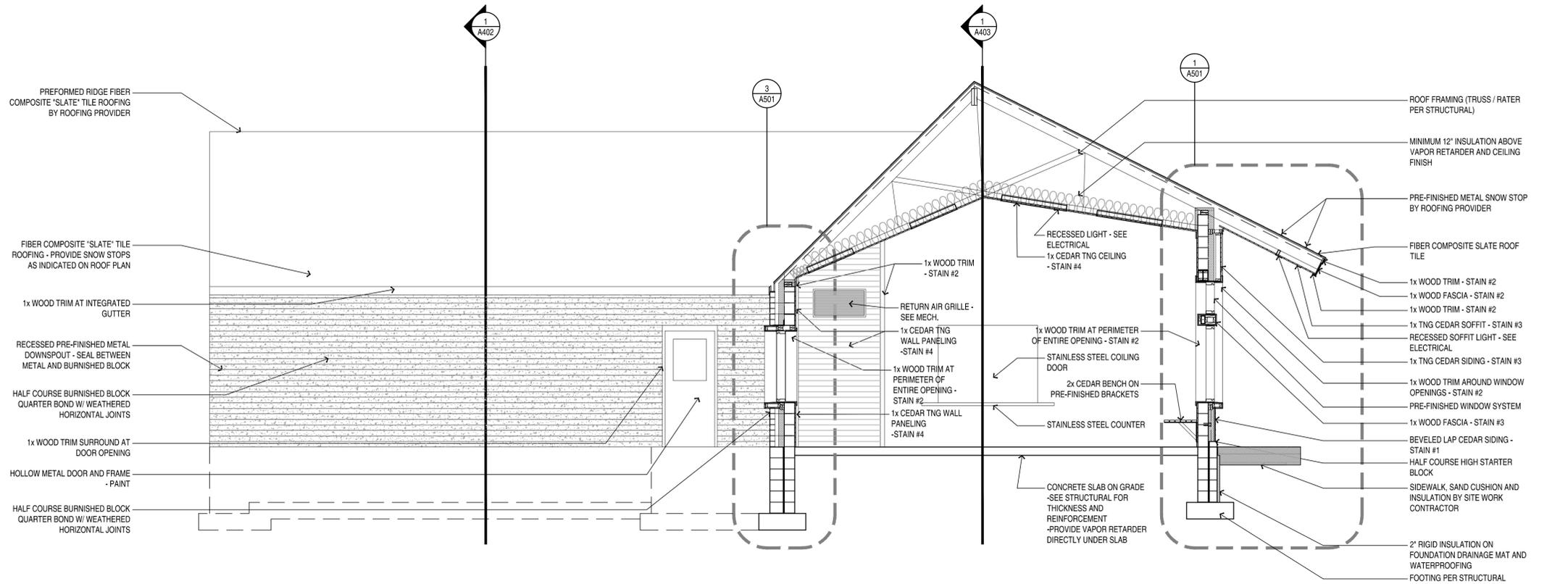
REVISIONS:

SHEET NAME:

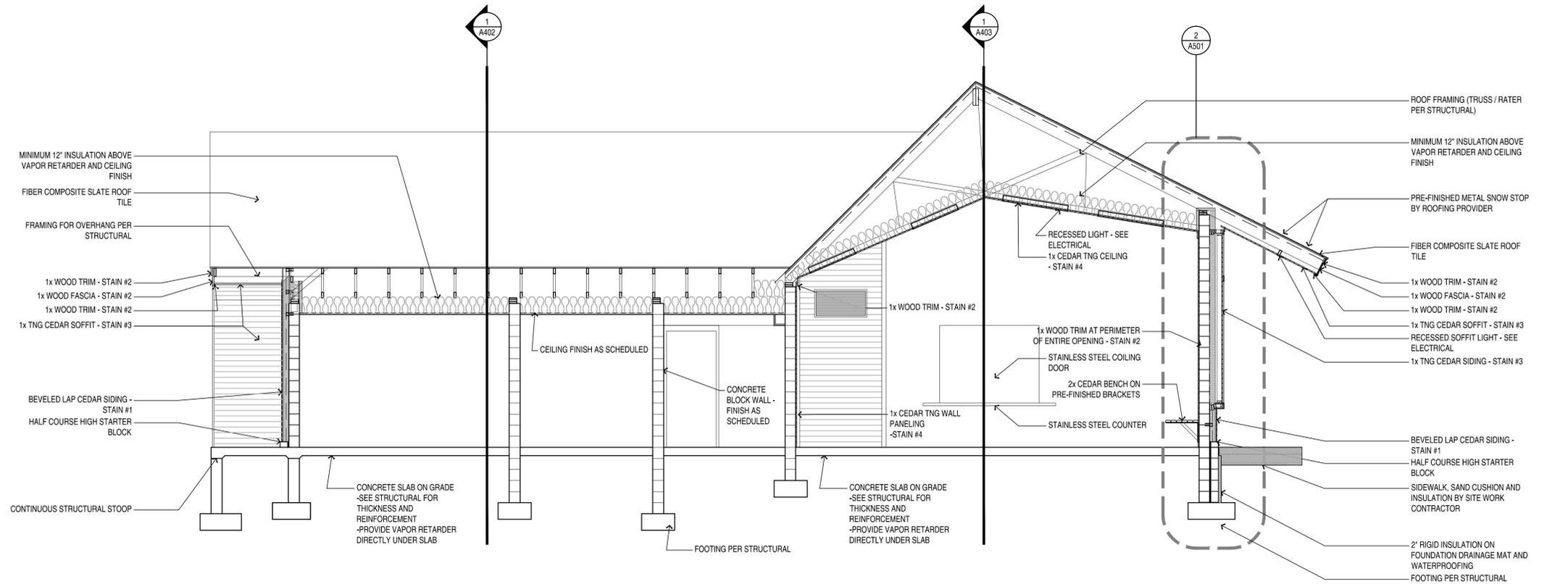
BUILDING SECTIONS

SHEET NO:

A401



1 BUILDING SECTION
 WEST - EAST AT ROOM 100
 1/4" = 1'-0"



2 BUILDING SECTION
 WEST - EAST AT ROOMS 102, 101, 100
 1/4" = 1'-0"

PLOT SCALE:

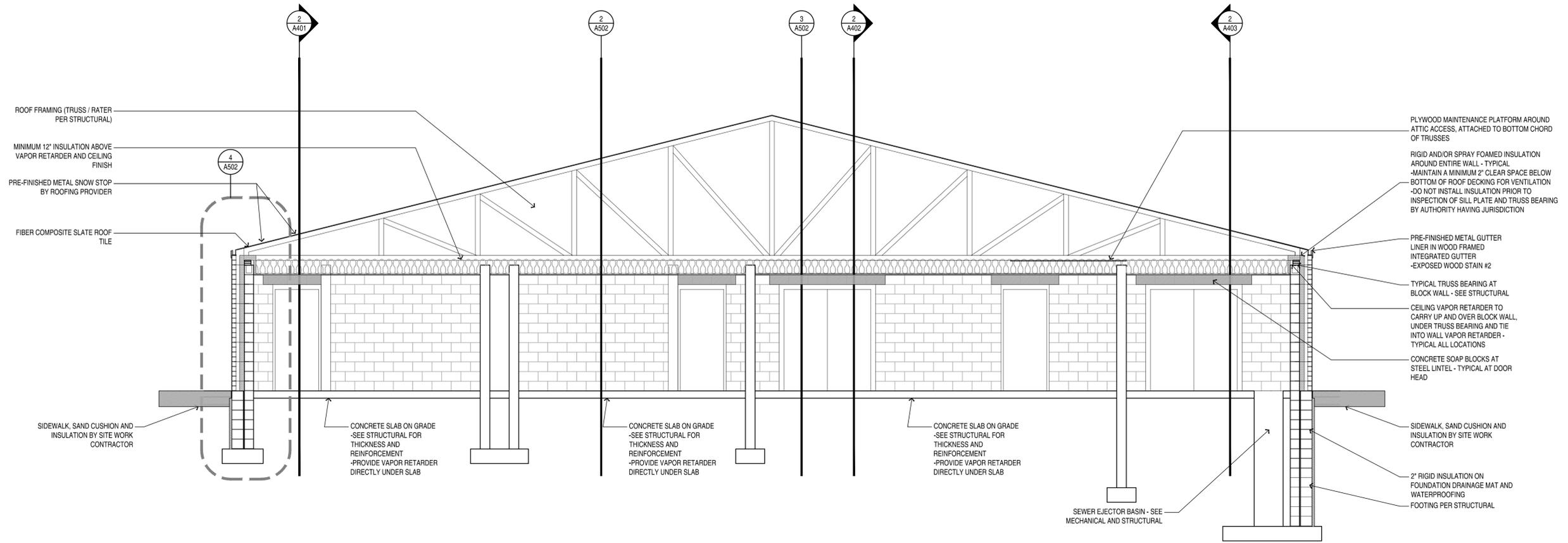
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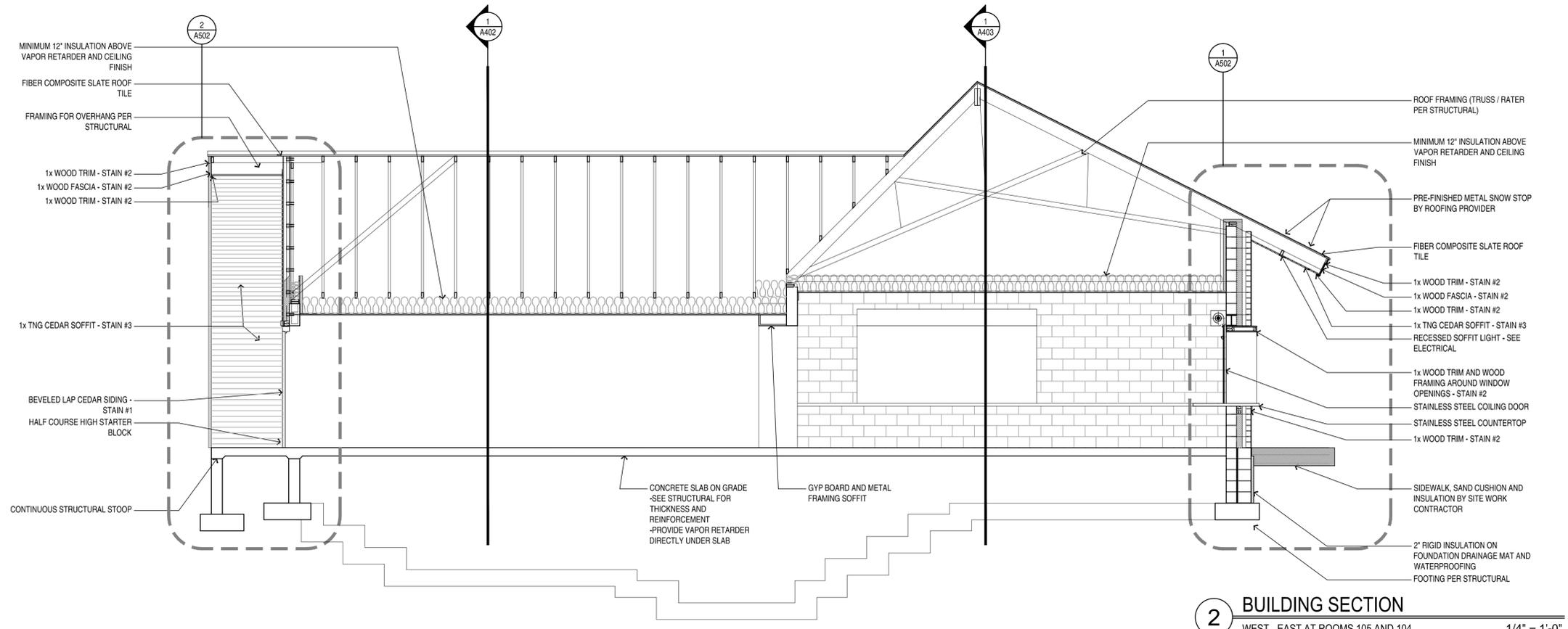
PLOT SCALE:

PRINTED:

FILE NAME:



1 BUILDING SECTION
 SOUTH - NORTH AT ROOMS 102, 103, 105 AND 106 1/4" = 1'-0"



2 BUILDING SECTION
 WEST - EAST AT ROOMS 105 AND 104 1/4" = 1'-0"

NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
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 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	ANC
CHECKED BY	JLD, ANC

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DATE: APRIL 10, 2015
 LICENSE NUMBER: 18840

REVISIONS:

SHEET NAME:

BUILDING SECTIONS

SHEET NO:

A402

NOTES:

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:	14-22
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	ANC
CHECKED BY:	JLD, ANC

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DATE: APRIL 10, 2015
 LICENSE NUMBER: 18640

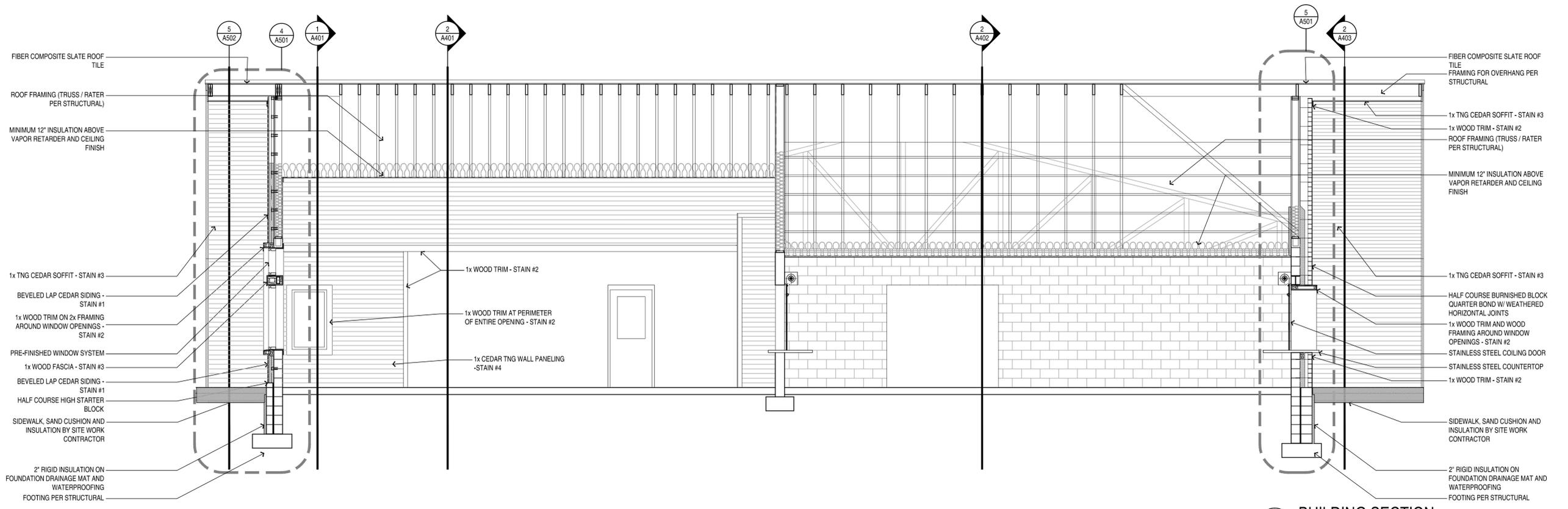
REVISIONS:

SHEET NAME:

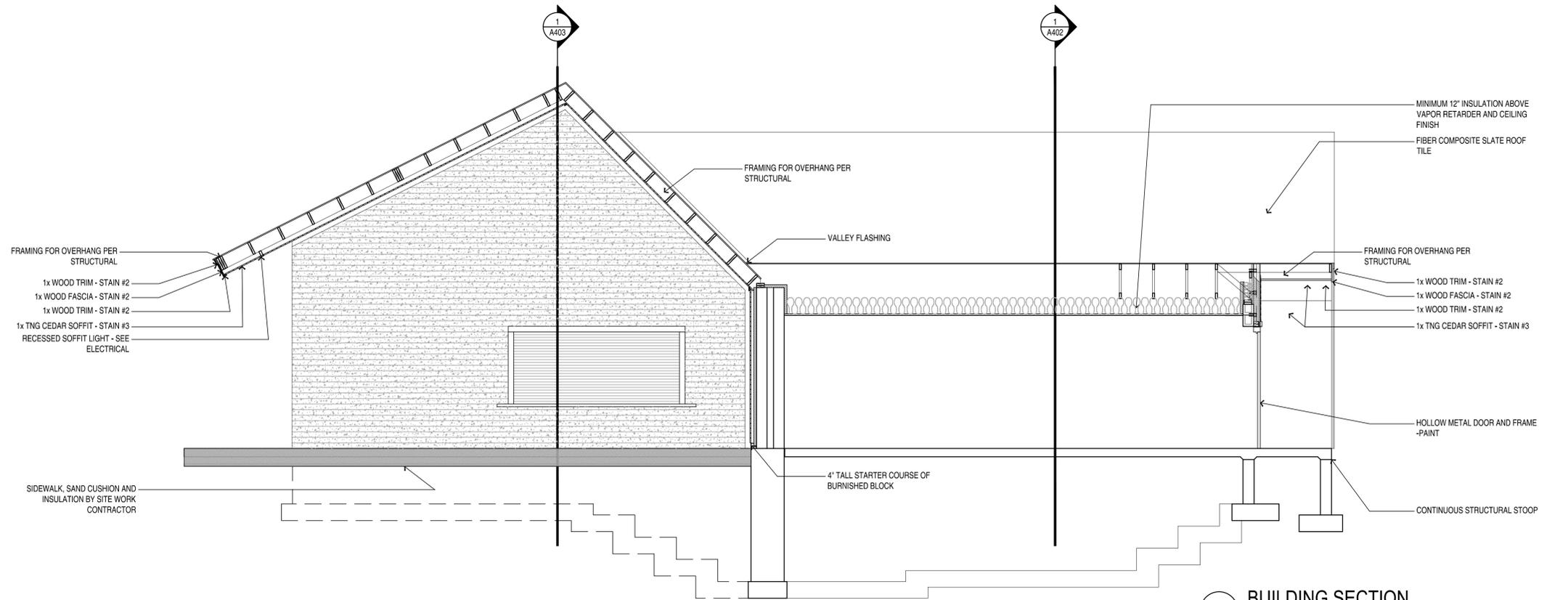
BUILDING SECTIONS

SHEET NO:

A403



1 BUILDING SECTION
 SOUTH - NORTH AT ROOMS 100 AND 104 1/4" = 1'-0"

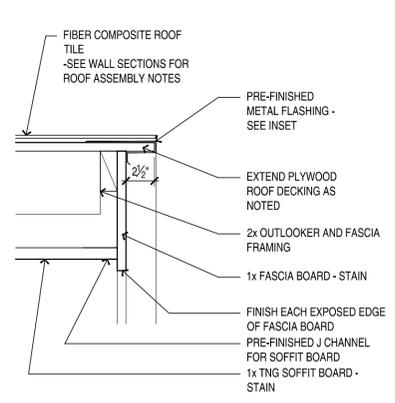


2 BUILDING SECTION
 EAST - WEST AT OVERHANG AT NORTH SALES WINDOW 1/4" = 1'-0"

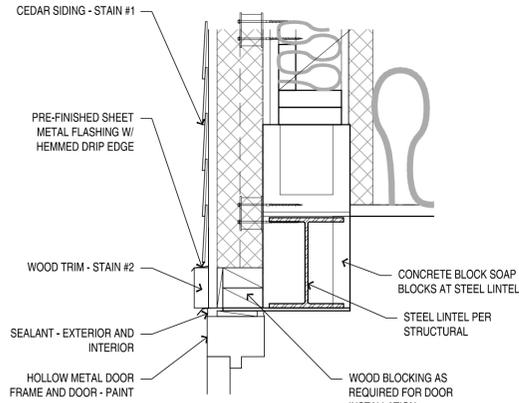
PLOT SCALE:

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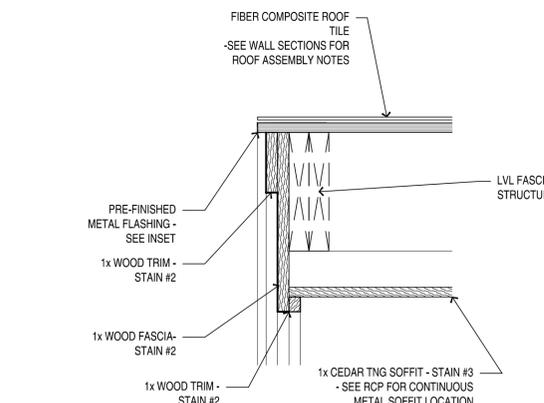
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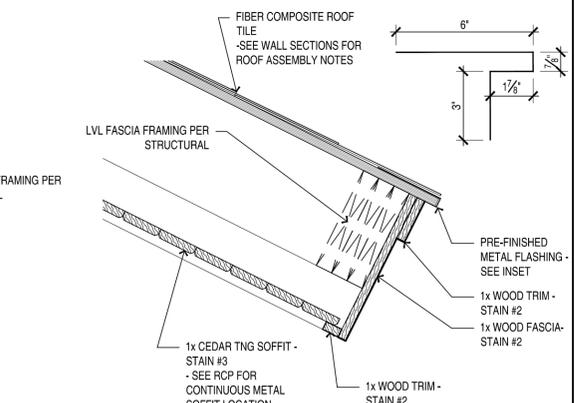
12 SECTION DETAIL
FASCIA DETAIL AT MAINTENANCE BUILDING 1 1/2" = 1'-0"



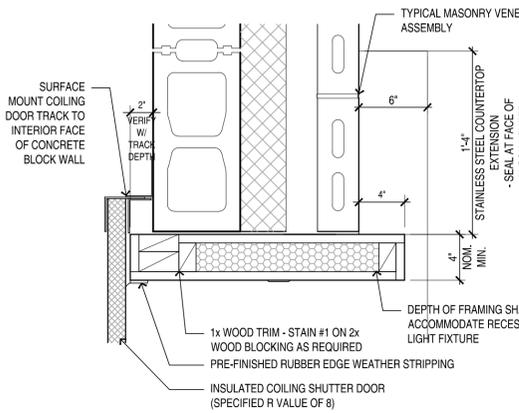
9 SECTION DETAIL
DOOR HEAD - WEST ELEVATION - DOORS 102B & 103B 1 1/2" = 1'-0"



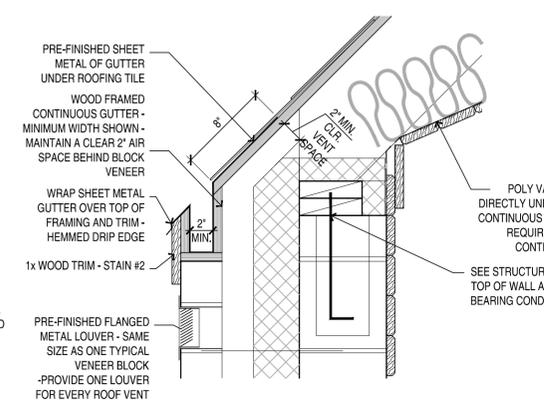
5 SECTION DETAIL
ROOF OVERHANG RAKE DETAIL 1 1/2" = 1'-0"



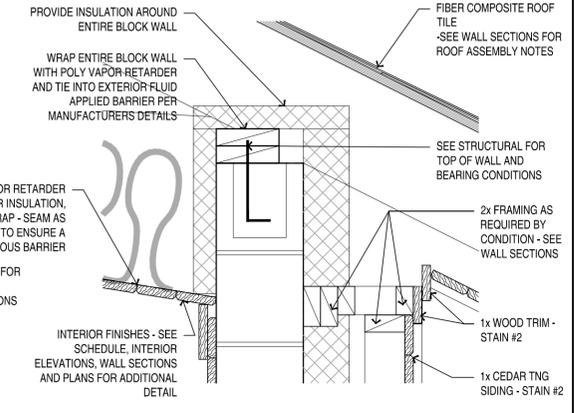
1 SECTION DETAIL
EAST ROOF FASCIA DETAIL 1 1/2" = 1'-0"



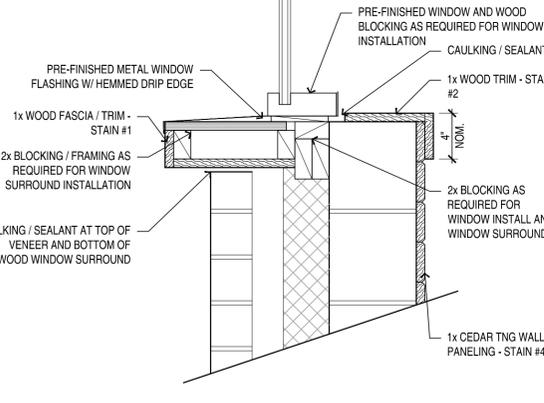
10 SECTION DETAIL
EXT. CONCESSION SALES WINDOW - JAMB CONDITION 1 1/2" = 1'-0"



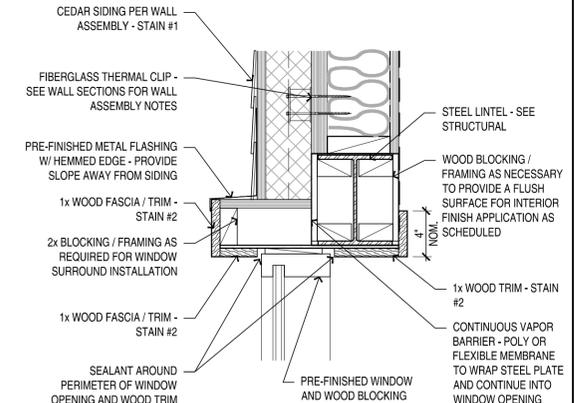
6 SECTION DETAIL
INTEGRATED GUTTER AT INSULATED WALL 1 1/2" = 1'-0"



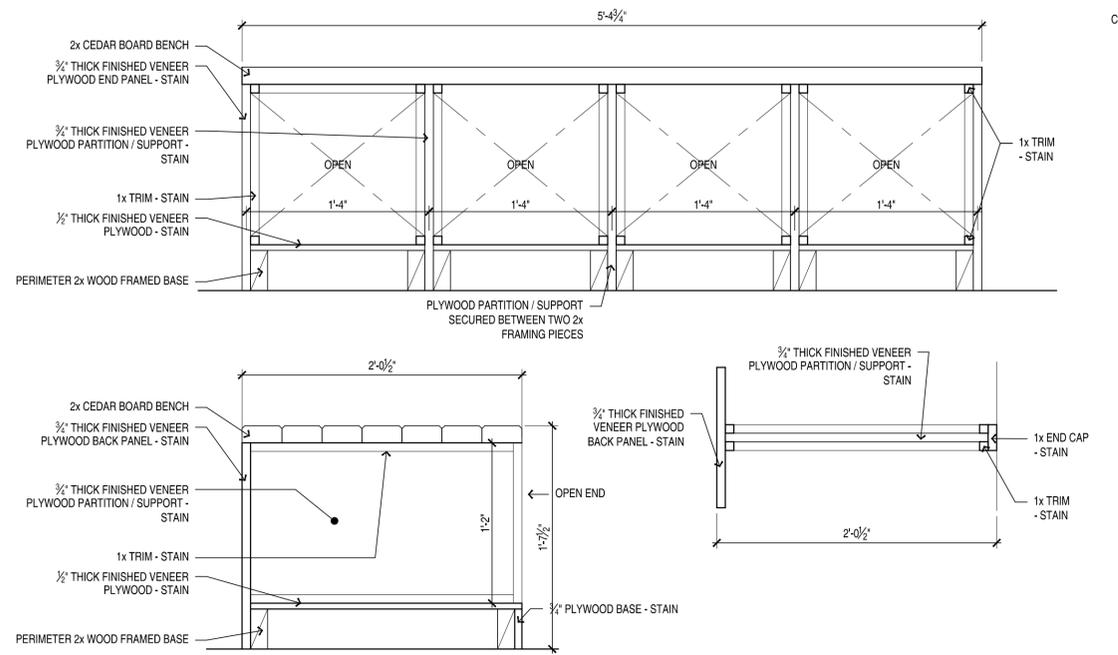
2 SECTION DETAIL
EXTERIOR WINDOW SURROUNDS AT WARMING ROOM 1 1/2" = 1'-0"



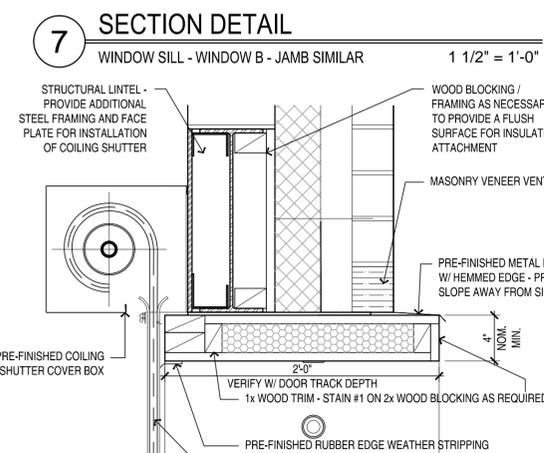
7 SECTION DETAIL
WINDOW SILL - WINDOW B - JAMB SIMILAR 1 1/2" = 1'-0"



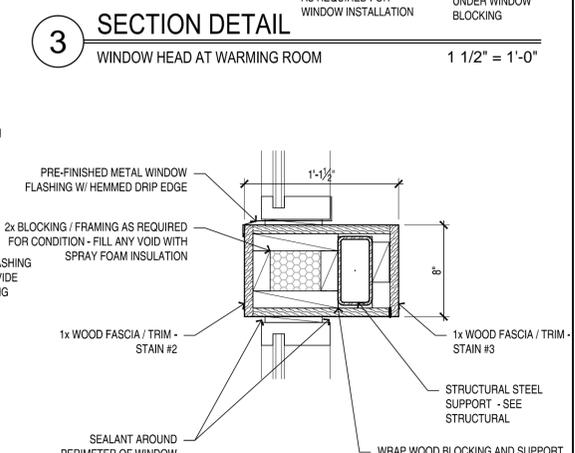
3 SECTION DETAIL
WINDOW HEAD AT WARMING ROOM 1 1/2" = 1'-0"



11 SECTIONS
BENCH SEATING - SEE PLAN NOTE 28 1 1/2" = 1'-0"



8 SECTION DETAIL
EXT. CONCESSION SALES WINDOW - HEAD CONDITION 1 1/2" = 1'-0"



4 SECTION DETAIL
WINDOW INTERMEDIATE 1 1/2" = 1'-0"

PLOT SCALE: PRINTED: FILE NAME:

OERTEL ARCHITECTS, LTD
1795 Saint Clair Avenue St. Paul, Minnesota 55105
phone: (651) 696-5186 www.oertelarchitects.com

CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
SAND CREEK PARK, COON RAPIDS, MN

PROJECT NAME: 14-22
PROJECT NUMBER: APRIL 10, 2015
DATE OF ISSUE: AUC
DRAWN BY: JLD, AUC
CHECKED BY: JLD, AUC

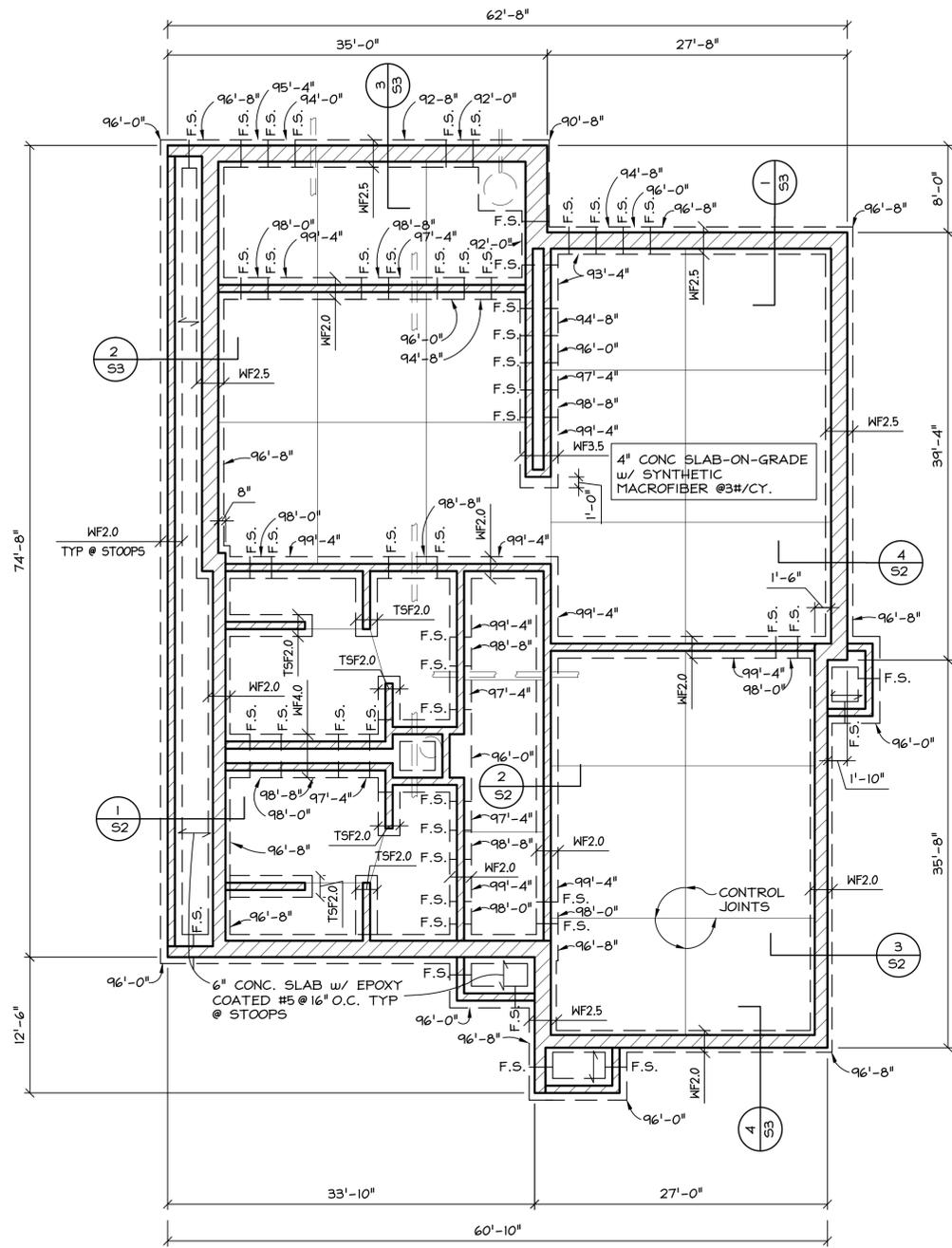
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DATE: APRIL 10, 2015
SCALE: 1/8"=1'-0"

REVISIONS:

SHEET NAME: DETAILS

SHEET NO: A601



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

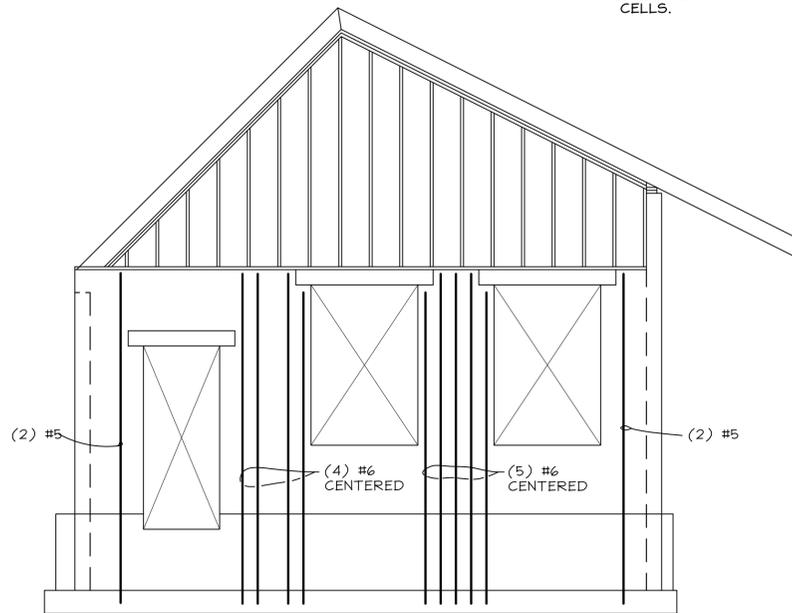
PLAN NOTES:

- 96'-8" ON PLAN INDICATES TOP OF FOOTING ELEVATION.
- SEE 6/2 FOR SLAB CONTROL JOINT DETAILS.
- SEE PLUMBING FOR PIPE INVERT ELEVATIONS & LOCATIONS WHERE FOOTINGS ARE TO BE DROPPED.
- SEE 1/S2 FOR STRUCTURAL SLAB STOOP DETAILS.
- SEE 5/S2 FOR STEP FOOTING DETAIL.

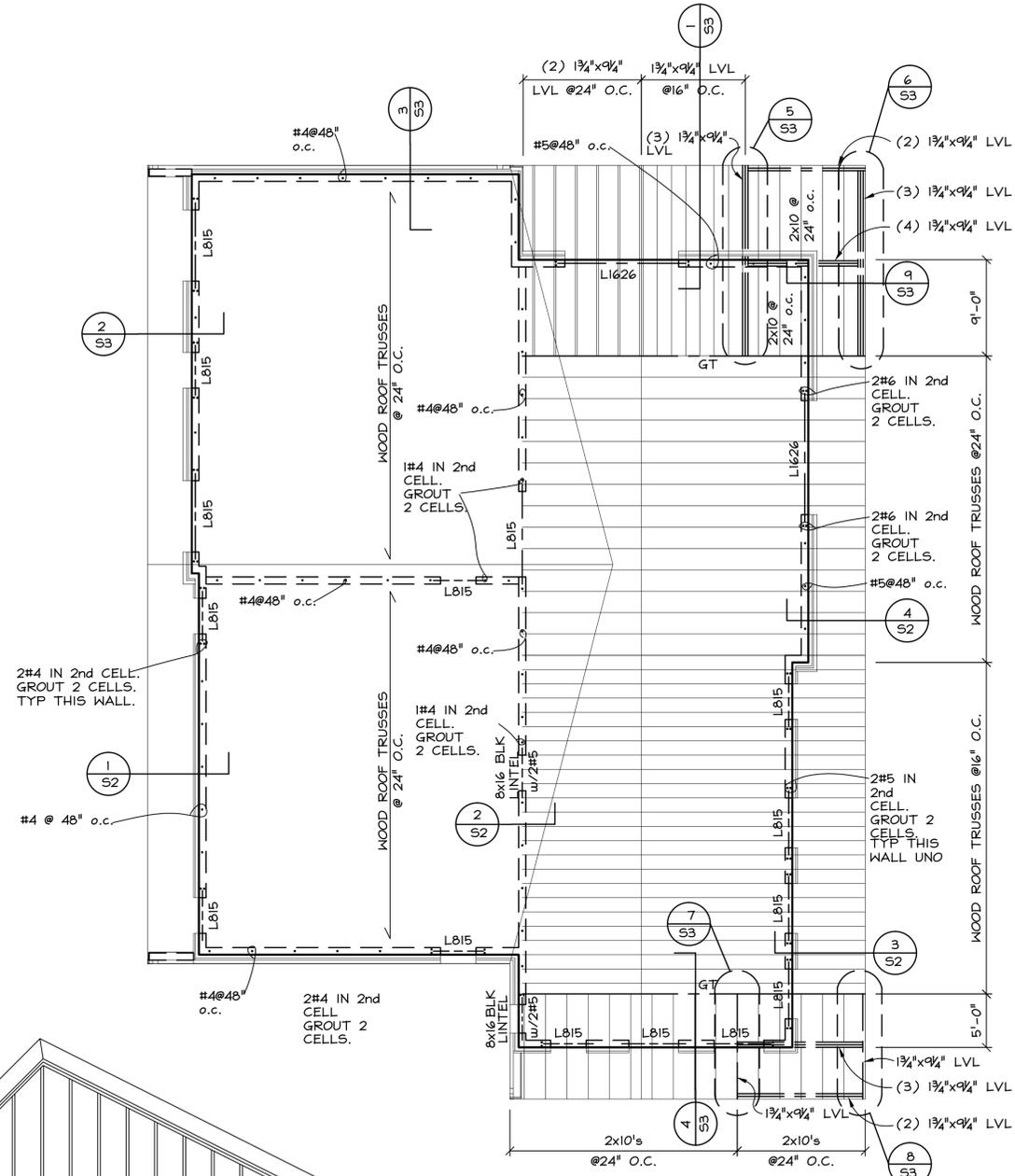
WALL FOOTING SCHEDULE

(2000 PSF SOIL BEARING CAPACITY)

MARK	SIZE & DEPTH	REINFORCING
WF2.0	2'-0" x 12"	(2) #5 BARS CONTINUOUS BOTT.
WF2.5	2'-6" x 12"	(2) #5 BARS CONTINUOUS BOTT.
WF3.5	3'-6" x 12"	(3) #5 BARS CONTINUOUS BOTT.
WF4.0	4'-0" x 12"	(4) #5 BARS CONTINUOUS BOTT.
TSF2.0	2'-0" x 12"	(2) #5 BARS CONTINUOUS BOTT.



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

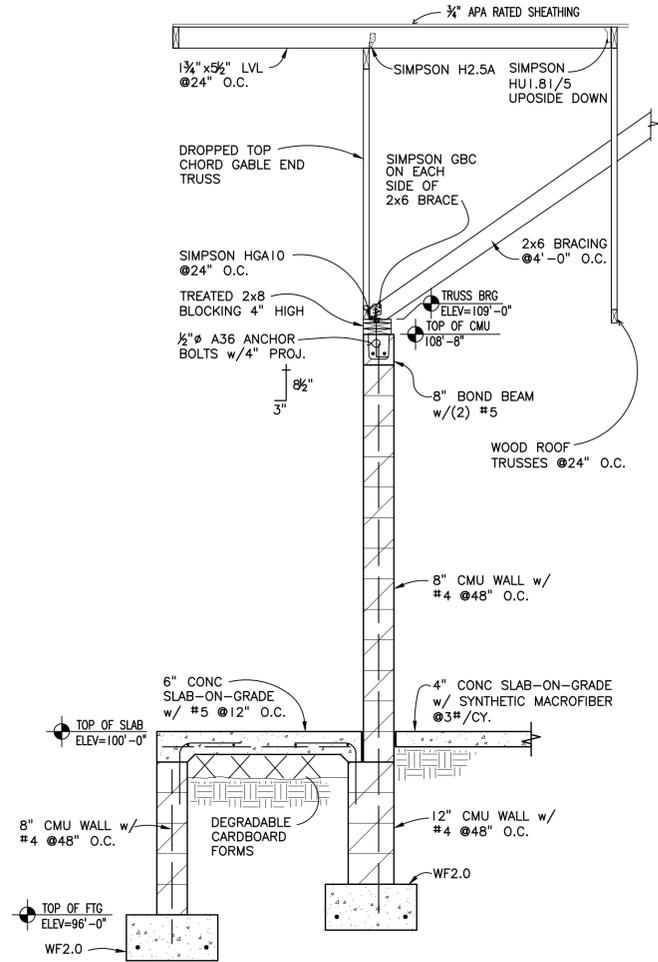


ROOF FRAMING PLAN
1/8" = 1'-0"

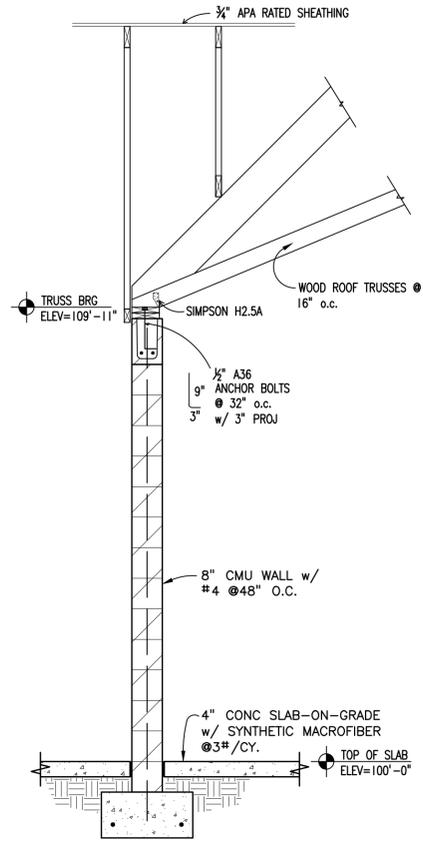
SEE ELEVATION FOR REBAR IN THIS WALL

LINTEL SCHEDULE

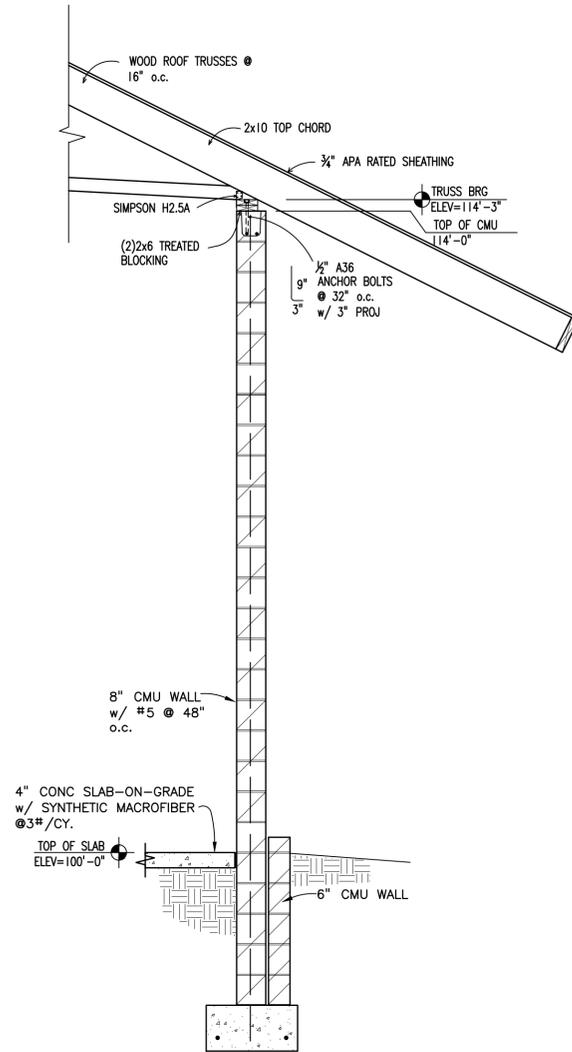
MARK	LINTEL
L815	W8x15 w/R 1/4" x 15" or 17"
L1626	W16x26 w/R 1/4" x 17"



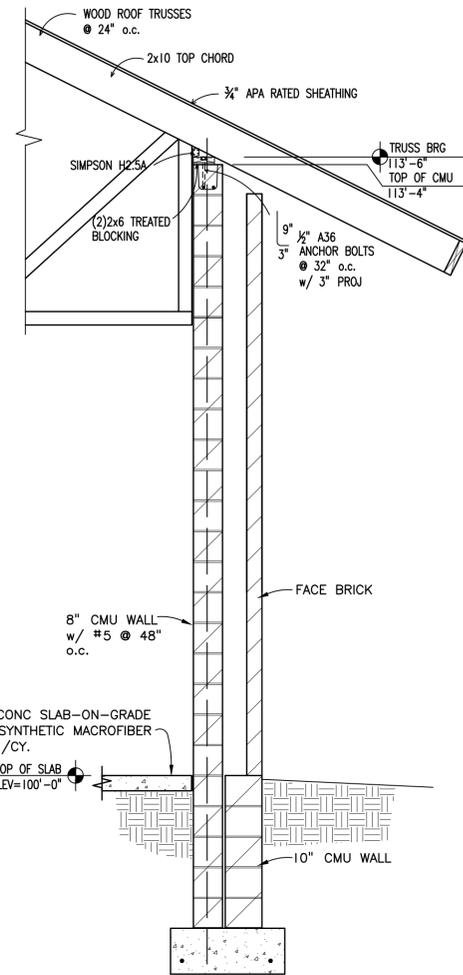
1 SECTION
S2 1/2" = 1'-0"



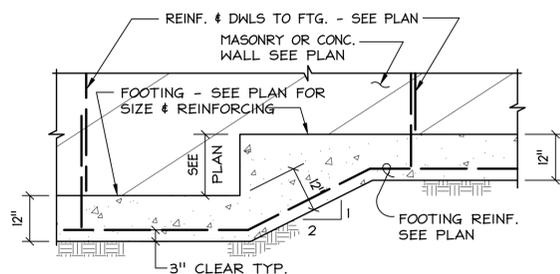
2 SECTION
S2 1/2" = 1'-0"



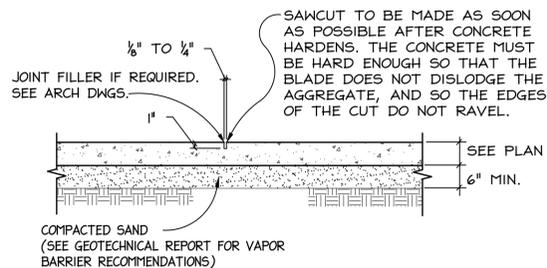
3 SECTION
S2 1/2" = 1'-0"



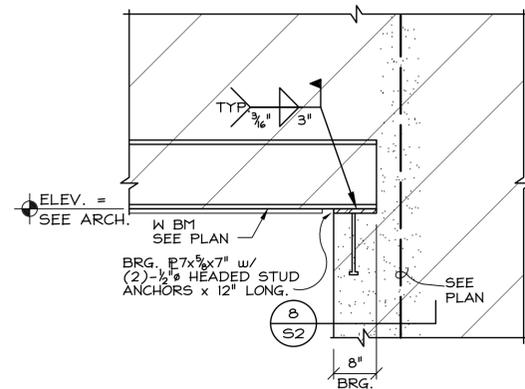
4 SECTION
S2 1/2" = 1'-0"



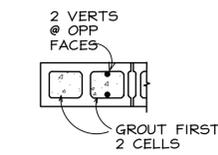
5 TYP. STEPPED FTG. DETAIL
S2 NOT TO SCALE



6 TYP. SAWCUT CONTROL JT. DETAIL
S2 NOT TO SCALE



7 SECTION (TYP. @ JAMB @ STL LINTEL)
S2 3/4" = 1'-0"



8 SECTION
S2 3/4" = 1'-0"

PROJECT NUMBER:	DBM 15017
DATE OF ISSUE:	APRIL 10, 2015
DRAWN BY:	DBM
CHECKED BY:	EC

I HEREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A DULY LICENSED ENGINEER UNDER THE STATE OF MINNESOTA.

Si-Chuan
REGISTERED PROFESSIONAL ENGINEER
DATE: APRIL 10, 2015
REGISTRATION: 264446

REVISIONS:
CONSTRUCTION SET
APRIL 10, 2015

SHEET NAME:
SECTIONS & DETAILS

SHEET NO:
S2

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "INTERNATIONAL BUILDING CODE", 2006 EDITION AS AMENDED BY THE STATE OF MINNESOTA. UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE CONSTRUCTION IS BEGUN. ALL OBSERVED DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
- DESIGN LOADS:
 ROOF LIVE LOAD, Pf=38.5 PSF (PLUS SNOW DRIFTING WHERE REQUIRED)
 WIND 90 mph (EXPOSURE "C") FROST DEPTH: 42" MINIMUM
 SEISMIC ZONE: 0
- CONCRETE:
 - ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, LATEST EDITION, AND THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 301, LATEST EDITION. ALL STRENGTHS NOTED BELOW ARE 28-DAY STRENGTHS.
 - INTERIOR SLABS ON GRADE 4000 PSI
 WATER/CEMENT RATIO (BY WEIGHT): .50 SLUMP: 4" (MAXIMUM)
 - FOOTINGS: 3000 PSI
 - ALL OTHER POURED-IN-PLACE STRUCTURAL CONCRETE: 4000 PSI
 - SEE MASONRY NOTES FOR GROUT USED IN MASONRY CONSTRUCTION.
 - EXTERIOR CONCRETE SHALL HAVE 5% MINIMUM ENTRAINED AIR.
- REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60 EXCEPT FOR TIES IN COLUMNS AND PILASTERS AND BEAM STIRRUPS WHICH MAY BE GRADE 40.
- FABRICATORS SHALL DRAW THEIR OWN ERECTION PLANS. THERE SHALL BE NO UNAUTHORIZED REPRODUCTION OF THE STRUCTURAL DRAWINGS FOR RE-USE AS SHOP DRAWING ERECTION PLANS.
- STRUCTURAL MEMBERS INCLUDING JOISTS, SLABS, BEAMS, TRUSSES, COLUMNS, AND WALLS ARE DESIGNED FOR "IN-PLACE" LOADS. CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVER STRESSING, ALL STRUCTURAL ELEMENTS AS REQUIRED AT ANY STAGE OF CONSTRUCTION UNTIL COMPLETION OF THIS PROJECT.
- PROVIDE DUR-O-WAL OR EQUAL AT 16" O.C. IN ALL MASONRY WALLS ABOVE GRADE.

FOUNDATION NOTES

- ALL FOOTING ELEVATIONS SHOWN ARE TO TOP OF FOOTINGS.
 - ALL FOOTINGS TO BE CENTERED UNDER WALLS OR COLUMNS ABOVE, UNLESS NOTED OTHERWISE.
 - PROVIDE 3" CLEAR COVER FOR ALL FOOTING REINFORCEMENT.
 - PROVIDE WALL FOOTING REINFORCING IN STOCK LENGTHS AND BEND IN FIELD AS REQUIRED. LAP BARS MINIMUM 42 DIAMETERS AND STAGGER SPLICES.
 - CAST DOWELS IN FOOTINGS TO MATCH BARS ABOVE WHERE REINFORCED WALLS OR COLUMNS OCCUR. COLUMN AND WALL REINFORCING DOWELS TO PROJECT 30 BAR DIAMETERS ABOVE TOP OF FOOTINGS UNLESS NOTED OTHERWISE. PROVIDE 90 DEG BEND IN COLUMN FOOTING DOWELS AND STRAIGHT DOWELS IN WALL FOOTINGS, UNLESS NOTED OTHERWISE.
 - SHORE ALL WALLS ADEQUATELY BEFORE BACKFILLING AND COMPACTING.
 - WALL FOOTINGS SHALL BE STEPPED 1 VERTICAL TO 2 HORIZONTAL AT ELEVATION CHANGES UNLESS NOTED OTHERWISE ON THE PLAN.
 - NO PART OF STRUCTURE SHALL BE PLACED ON FROZEN SOIL OR FOUNDATION. IF THE BUILDING WILL BE UNDER CONSTRUCTION DURING FREEZING WEATHER, ALL INTERIOR FOOTINGS SHALL BE DEPRESSED A MINIMUM OF 5'-0" (VERIFY DEPTH w/ SOILS ENGINEER) BELOW CONSTRUCTION GRADE OR INSULATED FOR FROST PROTECTION.
- ALL FOOTINGS WERE DESIGNED FOR 2000 PSF SOIL BEARING CAPACITY. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM WITHIN THE BUILDING AREA. ANY FILL SHALL BE GRANULAR INORGANIC FILL PLACED IN MAXIMUM 8" LIFTS AND COMPACTED TO THE SOIL ENGINEER'S RECOMMENDATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO GET THE EXCAVATIONS AND FILLS THOROUGHLY CHECKED BY A COMPETENT SOILS ENGINEER PRIOR TO THE PLACEMENT OF FOOTINGS SO DETRIMENTAL DIFFERENTIAL SETTLEMENT CANNOT OCCUR. VARIATIONS TO THE ABOVE SHALL BE AT THE DISCRETION OF THE SOILS ENGINEER.

WOOD NOTES

- LAMINATED VENEER LUMBER (LVL) MINIMUM PROPERTIES SHALL BE:
 Fb=2,600 PSI (MINIMUM) E=1,900,000 PSI (MINIMUM)
 PARALLEL STRAND LUMBER (PSL)
 Fb=2,900 PSI (MINIMUM) E=2,000,000 PSI (MINIMUM)
- TRUSS SUPPLIER SHALL DESIGN AND PROVIDE ALL TRUSS HANGERS.
- TRUSS SUPPLIER SHALL PROVIDE ENGINEERED SHOP DRAWINGS AND ERECTION PLANS CERTIFIED BY AN ENGINEER REGISTERED IN THE STATE OF MINNESOTA FOR REVIEW PRIOR TO FABRICATION.
- DESIGN ROOF TRUSSES FOR 38.5 PSF BALANCED SNOW LOAD PLUS 25 PSF DEAD LOAD PLUS DRIFT LOAD AT LOWER ROOFS, PER THE INTERNATIONAL BUILDING CODE.
- TRUSS SUPPLIER SHALL PROVIDE ALL TRUSSES, VALLEY TRUSSES, GABLE ENDS, OUTLOOKERS, ETC., REQUIRED FOR ROOF PROFILE SHOWN ON PLANS. SEE ARCHITECTURAL PLANS FOR EXACT ROOF PROFILE, DIMENSIONS, ROOF PITCH, OVERHANGS, VAULTED CEILINGS, ETC.
- TRUSS SUPPLIER SHALL PROVIDE SIMPSON H2.5A TRUSS ANCHORS FOR ALL ROOF TRUSS BEARING POINTS U.N.O.
- FIELD NOTCHING OR BORING OF TRUSSES IS NOT ALLOWED.
- TRUSS SUPPLIER SHALL PROVIDE ADEQUATE TRUSS BEARING AREA OF BEARING PLATES SUCH THAT COMPRESSIVE STRESS ON TOP PLATE OF WALLS DOES NOT EXCEED 425 PSI.

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND DETAILING PRACTICES OUTLINED IN THE AISC "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE AISC "MANUAL OF STEEL CONSTRUCTION". AN INDEPENDENT TESTING LAB SHALL PERFORM THE TESTING AS INDICATED IN THE "SPECIAL INSPECTIONS" NOTES.
- STEEL BEAMS AND LINTELS SUPPORTED ON MASONRY SHALL HAVE A MINIMUM 8" OF BEARING WITH CORES GROUTED FULL FOR THREE COURSES BELOW BEARING POINT UNLESS NOTED OTHERWISE.
- STEEL BEAMS SUPPORTING MASONRY WALLS OVER OPENINGS SHALL HAVE A 1/4" PLATE THE LENGTH OF THE OPENING BY THE WIDTH OF THE WALL WELDED TO THE BOTTOM FLANGE UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL WIDE FLANGE BEAMS AND WT'S SHALL BE ASTM A992 (FY=50 KSI), UNLESS NOTED OTHERWISE. TUBE STEEL SHALL BE ASTM A500 GRADE B (FY=46 KSI), UNLESS NOTED OTHERWISE. ALL STRUCTURAL STEEL PLATE, ANGLE AND CHANNEL SHALL BE ASTM A36 OR ASTM A572 GR50, UNLESS NOTED OTHERWISE. STEEL PIPE SHALL BE FY=35 KSI MINIMUM.
- THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS ERECTION OR SHOP DRAWINGS BY THE STEEL FABRICATOR.
- SHOP DRAWINGS MUST BE APPROVED PRIOR TO FABRICATION.

DIMENSION LUMBER NOTES

- "NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS", LATEST EDITION, SHALL GOVERN THE DESIGN AND INSTALLATION OF ALL DIMENSION LUMBER.
- ALL LUMBER SHALL BE SPRUCE PINE FIR OR EQUAL. JOISTS, HEADERS AND ALL TOP AND BOTTOM PLATES SHALL BE #2 OR BETTER. STUDS SHALL BE STUD GRADE OR BETTER U.N.O.
- ALL MEMBER SIZES GIVEN IN THE DRAWINGS ARE NOMINAL DIMENSIONS.
- WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, ETC.) UNLESS OTHERWISE NOTED.
- ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH "SIMPSON" JOIST HANGERS OR EQUAL. USE STANDARD "U" HANGERS FOR SINGLE OR DOUBLE 2X's, UNLESS NOTED OTHERWISE. THE JOIST HANGERS SHALL BE NAILED USING SPECIAL NAILS SUPPLIED BY THE HANGER MANUFACTURER.
- WOOD HEADERS OR POSTS MADE UP OF TWO OR MORE 2X's SHALL BE SPIKED TOGETHER.

CONCRETE MASONRY NOTES

- CODE FOR MASONRY CONSTRUCTION:
 BUILDING CODE REG'S FOR MASONRY STRUCTURES (ACT 530-05/ ASCE 5-05/TMS 402-05)
- CONCRETE MASONRY UNITS: THE QUALITY STANDARDS FOR THE UNITS SHALL CONFORM TO THE AMERICAN STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING MASONRY UNITS (ASTM C90). MINIMUM F'M SHALL BE 2,000 PSI BASED ON 2,800 PSI NET AREA COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS.
- MORTAR: THE MORTAR USED FOR MASONRY CONSTRUCTION SHALL BE TYPE M BELOW GRADE AND TYPE S OR M ABOVE GRADE (UNLESS NOTED OTHERWISE) AND SHALL CONFORM TO ALL THE REQUIREMENTS OF THE ABOVE CODE, CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR. MASONRY CEMENTS SHALL NOT BE USED.
- CONSTRUCTION: THE FIRST COURSE OF ALL HOLLOW MASONRY SHALL BE LAID IN A FULL BED OF MORTAR. ALL UNITS SHALL BE LAID WITH FULL FACE SHELL MORTAR FOR A DISTANCE IN FROM THE FACE OF THE UNIT OR WALL NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. MORTAR JOINTS SHALL BE MAINTAINED AT 3/8" THICKNESS FOR BOTH THE HORIZONTAL AND VERTICAL JOINTS, UNLESS NOTED OTHERWISE.
- PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C. IN ALL MASONRY WALLS. WALLS SHALL BE LAID UP IN RUNNING BOND AND HAVE "LADUR" TYPE REINFORCING. PROVIDE A MINIMUM 6" LAP AT SPLICES.
- CONTACT LAP SPLICES FOR VERTICAL REINFORCING (UNLESS NOTED OTHERWISE):
 COMPRESSION SPLICES: 36 DIAMETERS
 TENSION SPLICES: 48 DIAMETERS
 REINFORCING BARS SHALL BE ACCURATELY POSITIONED ACCORDING TO THE DRAWINGS AND SHALL BE SECURED TO PREVENT DISPLACEMENT DURING GROUTING.
- GROUT FOR BOND BEAMS, PILASTERS, AND CORE FILL SHALL HAVE A MINIMUM F'c = 3,000 PSI AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH ASTM C-476 AND A MAXIMUM SIZE OF AGGREGATE OF 3/8". CALCIUM CHLORIDE SHALL NOT BE USED IN GROUT.
- GROUTING OF WALLS SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS, UNLESS NOTED OTHERWISE:
 - BUILD MASONRY WALLS IN MAXIMUM 5'-0" LIFTS. PLACE VERTICAL REINFORCEMENT PRIOR TO GROUTING CORES. STOP GROUT 1 1/2" BELOW TOP OF MASONRY AND CONSOLIDATE WITH MECHANICAL VIBRATION. VERTICAL REINFORCEMENT SHALL PROJECT THE MINIMUM LAP LENGTH REQUIRED.
 - BUILD MASONRY WALLS 8'-0" HIGH MAXIMUM AND PROVIDE CLEANOUTS AT BOTTOM OF CORES TO BE FILLED. PLACE VERTICAL REINFORCEMENT FOR FULL HEIGHT OF WALL WITHOUT SPLICES. PLACE GROUT IN MAXIMUM 4'-0" LIFT AND CONSOLIDATE WITH MECHANICAL VIBRATION. ALLOW GROUT TO SET FOR 15 MINUTES MINIMUM, BUT LESS THAN ONE HOUR, BEFORE PLACING SUCCEEDING LIFT OF GROUT.
- PROVIDE CONTROL JOINTS AT MAXIMUM 25'-0" O.C. IN ALL WALLS ABOVE GRADE, UNLESS INDICATED OTHERWISE.
- PROVIDE 8" OF BEARING EACH END FOR BLOCK LINTELS, TYPICAL UNLESS NOTED OTHERWISE. FILL BLOCK CORES SOLID FOR TWO COURSES BELOW BEARING, UNLESS NOTED OTHERWISE. PROVIDE 8" DEEP BLOCK LINTEL WITH 2- # 5 CONTINUOUS FOR ALL OPENINGS LESS THAN 3'-6" UNLESS NOTED OTHERWISE ON THE PLAN.

OTHER STRUCTURAL OBSERVATION

IN ADDITION TO PERIODIC SITE VISITS TO BECOME GENERALLY FAMILIAR WITH THE WORK, THE STRUCTURAL ENGINEER-OF-RECORD (SER) SHALL OBSERVE THE STRUCTURAL SYSTEMS AT SUBSTANTIAL COMPLETION BUT BEFORE THE STRUCTURE IS COVERED WITH FINISHES.

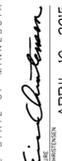


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PROJECT NAME:
CITY OF COON RAPIDS, MN
 SAND CREEK PARK SITE IMPROVEMENTS
 WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	DBM 15017
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	DBM
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 DATE: APRIL 10, 2015
 REGISTRATION: 26446

REVISIONS:
 CONSTRUCTION SET
 APRIL 10, 2015

SHEET NAME:
GENERAL NOTES

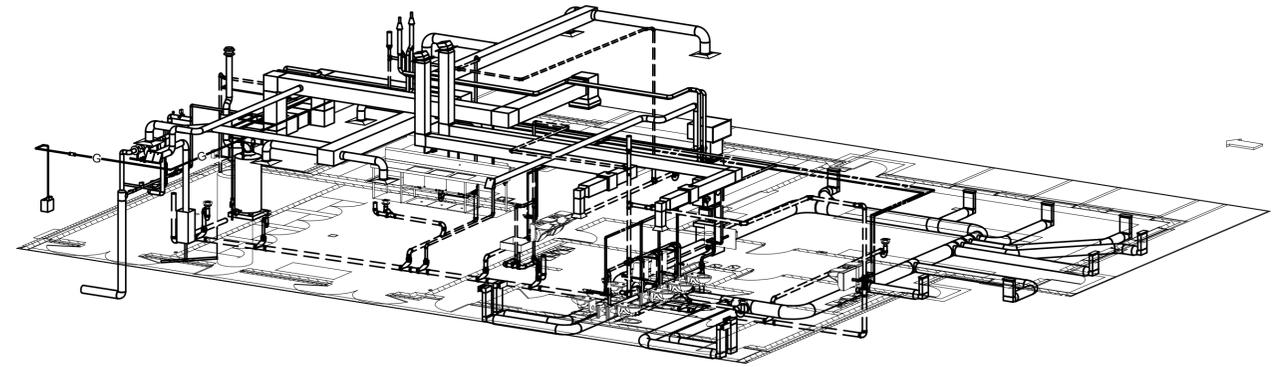
SHEET NO:
S5

GENERAL NOTES APPLICABLE TO ALL SHEETS AND ALL WORK PROVIDED BY DIVISION 21 FIRE SUPPRESSION, DIVISION 22 PLUMBING AND DIVISION 23 HVAC

1. ARCHITECTURAL AND STRUCTURAL ELEMENTS ARE SHOWN FOR REFERENCE ONLY; VERIFY ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS WITH RESPECTIVE DRAWINGS AND SUBMITTALS; PROVIDE ADDITIONAL PIPING, PIPING FITTINGS, PIPING SPECIALTIES, DUCTWORK, DUCTWORK FITTINGS, DUCTWORK SPECIALTIES AND SUPPORTS AS NECESSARY TO INSTALL ALL DIVISION 21 FIRE SUPPRESSION, DIVISION 22 PLUMBING AND DIVISION 23 HVAC WORK FOR THIS PROJECT CLEAR OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON PLANS, DETAILS AND SUBMITTALS
2. VERIFY LOCATIONS OF TRANSFORMERS, MAIN SWITCHBOARDS, BELOW-GRADE CONDUITS, PANELBOARDS, CONTACTOR ENCLOSURES, CONTROLLERS, PHONE & DATA PANELS AND RACKS, LIGHTING FIXTURES, LIGHT SWITCHES AND JUNCTION BOXES PRIOR TO PIPING AND DUCTWORK FABRICATION; VERIFY N.E.C.-REQUIRED CLEARANCES AT ALL ELECTRICAL EQUIPMENT PRIOR TO PIPING AND DUCTWORK FABRICATION
3. VERIFY LOCATIONS AND ELEVATIONS OF ROOF TRUSSES, GUSSETS AND CROSS BRACING PRIOR TO DUCTWORK AND PIPING FABRICATION
4. PROVIDE ADDITIONAL FITTINGS AND SUPPORTS TO OFFSET TYPE B VENT IN ATTIC AS NECESSARY TO MAINTAIN CLEARANCE TO COMBUSTIBLES
5. DUE TO PLAN SCALE AND ORIENTATION, PORTIONS OF WORK REQUIRED BY DIVISION 21 FIRE SUPPRESSION, AND DIVISION 22 PLUMBING, EXTEND BEYOND THE LIMITS OF WORK SHOWN ON THESE DRAWINGS; SEE NOTES ON PLAN VIEWS FOR DIVISION 21 COMBINED WATER SERVICE, DIVISION 21 SPRINKLER COVERAGE AT ROOF OVERHANGS, AND DIVISION 22 FORCE MAIN ALL EXTENDING BEYOND PLAN VIEWS SHOWN ON THESE DRAWINGS
6. PROVIDE FET PIPING INSULATION AT ALL DOMESTIC COLD AND HOT WATER PIPING CONCEALED WITHIN OR BETWEEN NEW CMU BLOCK WALLS; PROVIDE FIBERGLASS PIPING INSULATION AT ALL OTHER AREAS
7. PROVIDE CUTTING AND PATCHING OF ROOF SHEATHING AS NECESSARY TO INSTALL PLUMBING VENTS THRU ROOF, EXHAUST DUCTS, TYPE B GAS VENTS, AND FURNACE MFR'S CONCENTRIC VENT AND COMB. AIR ROOF TERMINATIONS; VERIFY ALL LOCATIONS WITH DIVISION 07 ROOFING PRIOR TO CUTTING AND PATCHING ROOF SHEATHING; VERIFY CLEARANCES TO COMBUSTIBLES PRIOR TO FABRICATION OF TYPE B VENT AT GAS WATER HEATER GWH-1

MECHANICAL SYMBOLS AND ABBREVIATIONS

<p>——— DOMESTIC COLD WATER - - - - DOMESTIC HOT WATER ===== SANITARY DRAIN ABOVE GRADE - - - - - SANITARY DRAIN BELOW GRADE - - - - - VENT</p>	<p>⊥ CLEANOUT ⊥ WALL HYDRANT ⊥ ISOLATION VALVE ⊥ VALVE IN VERTICAL PIPING / BREAK ○ PIPING UP ◊ PIPING DOWN</p>
<p>ATR ALL THREADED ROD CO CLEAN OUT FCO FLOOR CLEAN OUT WCO WALL CLEAN OUT FD FLOOR DRAIN IE INVERT ELEVATION V VENT W WASTE CW COLD WATER' HW HOT WATER VTR VENT THRU ROOF, 4" SS OR S.S. STAINLESS STEEL FET FLEXIBLE ELASTOMERIC THERMAL INSULATION (ARMACELL OR APPROVED EQUAL) XPS EXTRUDED POLYSTYRENE INSULATION FFE FINISHED FLOOR ELEVATION</p>	<p>⊕ THERMOSTAT; PROVIDE 120V OR 24V CONTROL POWER AS NECESSARY FOR THERMOSTAT; PROVIDE CONTROL WIRINGS AND EMT CONDUIT TO RESPECTIVE EQUIPMENT; PROVIDE PERFORATED STEEL THERMOSTAT COVER AND STEEL BASE</p>
<p>AP ACCESS PANEL BOD BOTTOM OF DUCT GALV. GALVANIZED - HOT DIPPED MOT. DMPR. MOTORIZED DAMPER S.M. SHEET METAL TSTAT THERMOSTAT TRANS. TRANSITION</p>	<p>45° BOOT TAKEOFF WITH VOLUME DAMPER CONICAL SPIN IN WITH VOLUME DAMPER SUPPLY AIR UP, SUPPLY AIR DOWN RETURN OR EXHAUST AIR UP, RETURN OR EXHAUST AIR DOWN</p>
<p>EG-1 100 CFM</p>	<p>GRILLE OR REGISTER TAG; SEE SCHEDULES FOR ADDITIONAL REQUIREMENTS 24x24 DIFFUSER 12x12 DIFFUSER LINEAR SLOT DIFFUSERS 24x24 RETURN GRILLE 24x6 RETURN GRILLE EXHAUST GRILLE, SIZE AS NOTED ROUND DIFFUSER, SIZE AS NOTED 90 DEG SMOOTH RADIUS EL 45 DEG SMOOTH RADIUS EL 90 DEG EL WITH TURNING VANES</p>
<p>FDC FIRE DEPARTMENT CONNECTION DCV DETECTOR CHECK VALVE AHJ BUILDING OFFICIAL, BUILDING INSPECTOR, FIRE MARSHAL OR OTHER AUTHORITY HAVING JURISDICTION</p>	
<p>AFF ABOVE FINISHED FLOOR CJ CONTROL JOINT OR CONSTRUCTION JOINT; VERIFY LOCATIONS WITH ARCHITECTURAL PLANS CMU CONCRETE MASONRY UNIT BLOCK WALL DN DOWN ELEV ELEVATION MFR MANUFACTURER TYP TYPICAL; WHEN TYP OR TYPICAL IS INCLUDED IN GENERAL NOTES, PLAN KEYNOTES OR PLAN NOTES, ALL DESCRIPTIVE ELEMENTS OF THAT NOTE SHALL BE PROVIDED MULTIPLE TIMES</p>	



1 DUCTWORK ISO LOOKING NE

SHEET INDEX	
Sheet Number	Sheet Name
M001	GENERAL NOTES AND MECHANICAL DETAILS
M100	BELOW-GRADE PLUMBING AND FIRE SUPPRESSION
M101	MAIN LEVEL PLUMBING AND FIRE SUPPRESSION
M200	BELOW-GRADE HEATING
M201	MAIN LEVEL HEATING
M301	PLUMBING SCHEDULES
M302	HVAC SCHEDULES
M401	FIRE SUPPRESSION, PLUMBING AND HVAC DETAILS
M402	HVAC DETAILS

PROJECT NUMBER: AE1700130.002	DATE OF ISSUE: APRIL 10, 2015	DESIGNED BY: ALBERTSON	DRAWN BY: ALBERTSON
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I HEREBY CERTIFY THAT THIS DOCUMENT IS THE PROPERTY OF ALBERTSON ENGINEERING INC. AND THAT I AM REGISTERED UNDER THE DIRECT SUPERVISION AND THAT I AM A RESIDENT OF THE STATE OF MINNESOTA.
 DATE: APRIL 10, 2015
 SIGNATURE: [Signature]
 LICENSE NO.: 16630

REVISIONS:

SHEET NAME:
GENERAL NOTES AND MECHANICAL DETAILS

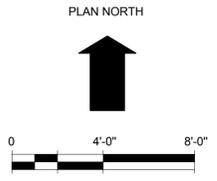
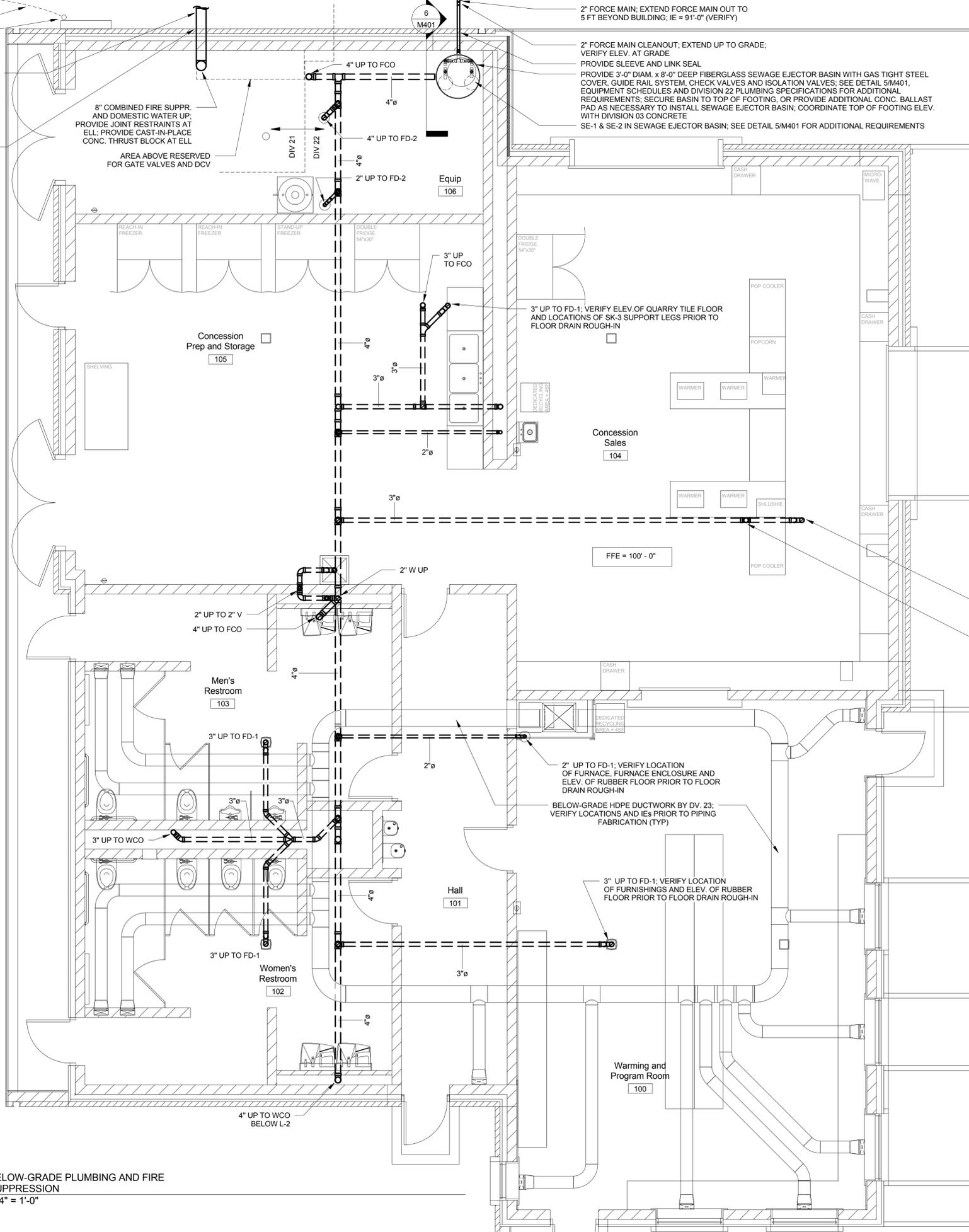
GENERAL NOTES FOR DIVISION 21 FIRE SUPPRESSION

1. PROVIDE COMBINED FIRE SUPPRESSION AND DOMESTIC WATER PIPING FROM EQUIP ROOM 106 TO A LOCATION NORTH MINIMUM 5 FT BEYOND THE BUILDING FOOTPRINT
2. PROVIDE ADDITIONAL PIPING AND FITTINGS AS SHOWN ON DETAIL 1/M401
3. COORDINATE WORK WITH DIVISION 23 HVAC WORK, INCLUDING HVAC WORK SHOWN ON SHEET M402; PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO COMPLETE DIVISION 21 WORK IN COOPERATION WITH DIVISION 23 HVAC

GENERAL NOTES FOR DIVISION 22 PLUMBING

1. PROVIDE 2" FORCE MAIN PIPING FROM EQUIP ROOM 106 TO A LOCATION NORTH MINIMUM 5 FT BEYOND THE BUILDING FOOTPRINT
2. VERIFY LOCATIONS AND ELEVATIONS OF BELOW-GRADE HDPE DUCTWORK PRIOR TO PIPING FABRICATION
3. COORDINATE WORK WITH DIVISION 23 HVAC WORK, INCLUDING HVAC WORK SHOWN ON SHEET M402; PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO COMPLETE DIVISION 22 WORK IN COOPERATION WITH DIVISION 23 HVAC

BELOW-GRADE PLUMBING AND FIRE SUPPRESSION
 1/4" = 1'-0"



PROJECT NUMBER: AEI700130.002	DATE OF ISSUE: APRIL 10, 2015	DESIGNED BY: ALBERTSON	PREPARED BY: ALBERTSON
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 DATE: APRIL 10, 2015
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REVISIONS:

SHEET NAME:
BELOW-GRADE PLUMBING AND FIRE SUPPRESSION

SHEET NO.:
M100
 OF 9

GENERAL NOTES FOR DIVISION 21 FIRE SUPPRESSION

1. PROVIDE DRY PIPE VALVE AND DRY TYPE FIRE SUPPRESSION SYSTEM FOR INTERIOR AREAS, ATTIC AND COMBUSTIBLE OVERHANGS; OVERHANGS EXTEND BEYOND AREAS AS SHOWN ON THIS SHEET; VERIFY ROOF PITCHES, ELEVATIONS AND TOTAL AREA OF OVERHANGS WITH ARCHITECTURAL PLANS AND ELEVATIONS
2. FOR AREAS WITH ACCESS CEILING TILES, CENTER ALL CONCEALED SPRINKLER HEADS AND COVERS; VERIFY LOCATIONS AND ELEVATIONS OF ACCESS CEILING TILES PRIOR TO PIPING FABRICATION
3. PROVIDE ADDITIONAL QUICK RESPONSE UPRIGHT BRASS SPRINKLER HEADS AT DUCTWORK AND FURNACE IN EQUIPMENT ROOM 106 LOCATED BELOW ACCESS CEILING; PROVIDE WIRE GUARDS FOR SPRINKLER HEADS LOCATED BELOW 7' - 0" AFF
4. PROVIDE INSPECTOR'S TEST STATION, FLOW SWITCH, PRESSURE GAUGE, AND ADDITIONAL PIPING AND FITTINGS AS SHOWN ON DETAIL 1/M401
5. COORDINATE WORK WITH DIVISION 23 HVAC WORK, INCLUDING HVAC WORK SHOWN ON SHEET M402; PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO COMPLETE DIVISION 21 WORK IN COOPERATION WITH DIVISION 23 HVAC

PLAN KEYNOTES FOR DIVISION 21 FIRE SUPPRESSION

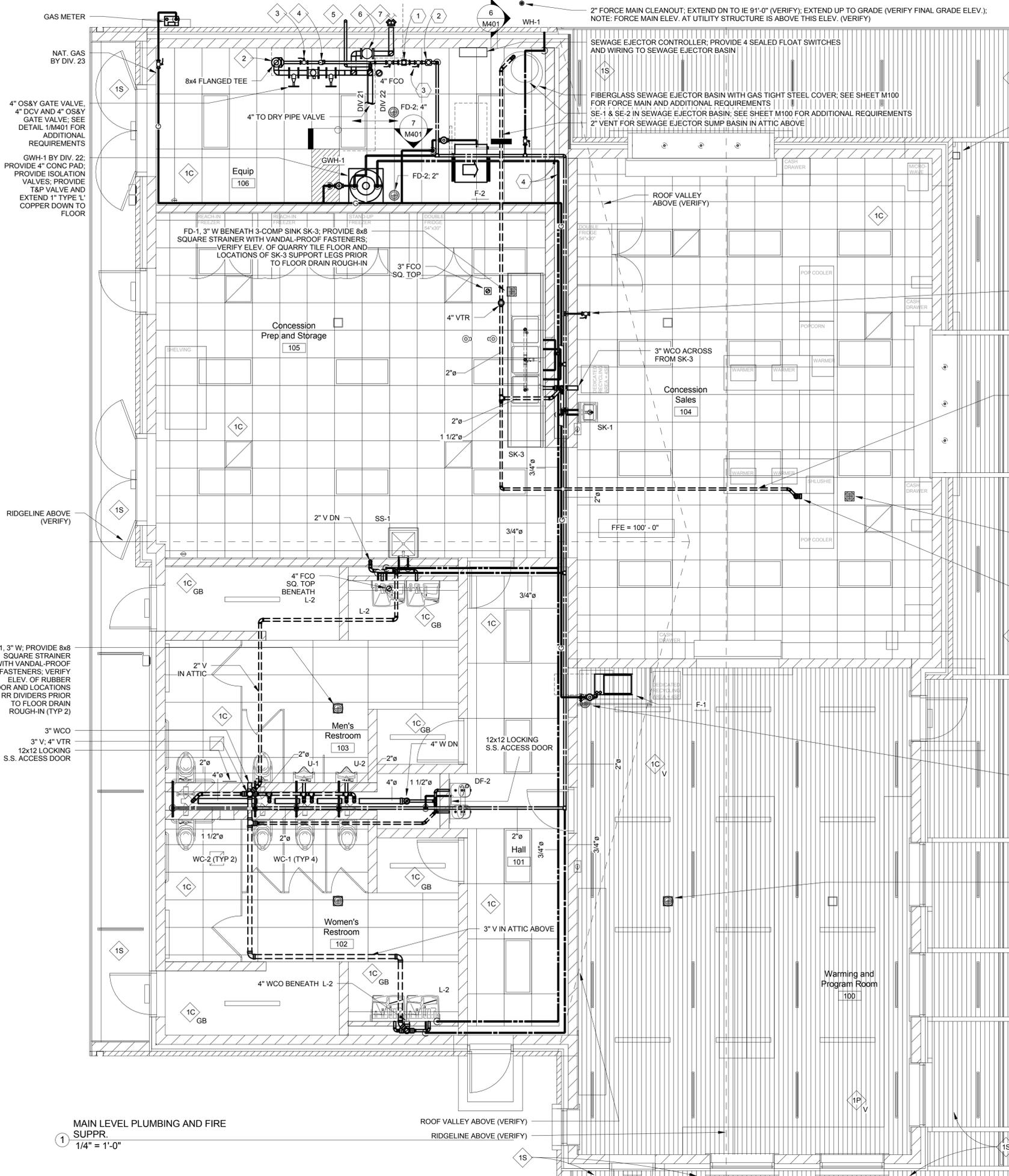
- 1C ORDINARY HAZARD GROUP 1; PROVIDE QUICK RESPONSE CONCEALED HEADS WITH WHITE COVERS, AND CENTERED IN ACCESS CEILING TILES FOR COVERAGE OF THIS ROOM OR AREA
- 1C GB ORDINARY HAZARD GROUP 1; PROVIDE QUICK RESPONSE CONCEALED HEADS WITH WHITE COVERS, AND LOCATED IN GYPSUM BOARD CEILING FOR COVERAGE OF THIS ROOM OR AREA
- 1C V ORDINARY HAZARD GROUP 1; PROVIDE QUICK RESPONSE CONCEALED HEADS WITH WHITE COVERS, AND LOCATED IN VAULTED CEILING FOR COVERAGE OF THIS ROOM OR AREA
- 1S ORDINARY HAZARD GROUP 1; PROVIDE QUICK RESPONSE CHROME PLATED SIDEWALL HEADS FOR COVERAGE OF COMBUSTIBLE CONSTRUCTION AT OVERHANGS
- 2 8" COMBINED FIRE SUPPRESSION AND DOMESTIC WATER DN
- 3 2" FULL PORT BALL VALVE
- 4 2" DOMESTIC WATER SOLENOID VALVE
- 5 2" MAIN DRAIN WITH DOWN-TURNED 45 DEG. ELL; CONT ON DETAIL 1/M401
- 6 4" CHECK VALVE & BALL DRIP
- 7 4" TO FDC; PROVIDE SIAMSE FDC WITH TWO 2-1/2" OUTLETS MATCHING HOSE THREADS PER AHJ; PROVIDE SIGNAGE PER AHJ; VERIFY FDC MOUNTING HEIGHT WITH AHJ

GENERAL NOTES FOR DIVISION 22 PLUMBING

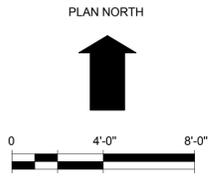
1. FURNISH FROST PROOF VENT FLASHINGS AT ALL VENT THRU ROOF LOCATIONS AND TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION; ROOF FLASHINGS SHALL BE SUITABLE FOR 3/12 (VERIFY) PITCHED ROOF ABOVE CONCESSION PREP AND RESTROOMS
2. GAS PIPING PROVIDED BY DIVISION 23, HVAC; COORDINATE DOMESTIC WATER PIPING LOCATIONS AND HANGERS WITH DIVISION 23 HVAC, AND VERIFY LOCATIONS OF GAS PIPING PRIOR TO DOMESTIC WATER PIPING FABRICATION
3. COORDINATE WORK WITH DIVISION 23 HVAC WORK, INCLUDING HVAC WORK SHOWN ON SHEET M402; PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO COMPLETE DIVISION 22 WORK IN COOPERATION WITH DIVISION 23 HVAC

PLAN KEYNOTES FOR DIVISION 22 PLUMBING

- 1 INSTALL 2" MUNICIPAL WATER METER AT THIS LOCATION; COORDINATE, SCHEDULE AND PAY ALL MUNICIPAL WATER METER PERMIT FEES; PROVIDE 4" CONC. PAD AND TWO EPOXY-COATED 1-5/8"x1-5/8" STEEL STRUT SUPPORTS AT WATER METER VALVES
- 2 2" PRESS. REDUCING VALVE
- 3 2" FULL PORT BALL VALVE (TYP 2)
- 4 DOMESTIC HOT AND COLD WATER PIPING SOUTH OF THIS LOCATION IN EQUIP ROOM 106 SHALL BE CONCEALED IN PLUMBING WALL OR WITHIN SOFFITS BELOW ACCESS CEILING; PROVIDE ADDITIONAL FITTINGS AND OFFSETS AS NECESSARY TO CONCEAL DOMESTIC WATER PIPING IN PLUMBING WALL AND IN SOFFITS; VERIFY LOCATIONS AND ELEVATIONS OF SOFFITS PRIOR TO PIPING FABRICATION



MAIN LEVEL PLUMBING AND FIRE SUPPR.
1/4" = 1'-0"



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DATE OF ISSUE:	APRIL 10, 2015
DESIGNED BY:	ALBERTSON
CHECKED BY:	ALBERTSON
DATE:	APRIL 10, 2015
SCALE:	1/8" = 1'-0"

REVISIONS:

SHEET NAME:
MAIN LEVEL PLUMBING AND FIRE SUPPRESSION

2 PSI GAS METER; DIVISION 23 SHALL COORDINATE, SCHEDULE AND PAY ALL GAS UTILITY CHARGES AND FEES FOR NEW GAS MAIN AND METER INSTALLATION; PROVIDE PRESS. REGULATOR, METER BYPASS PIPING, VALVES AND OTHER SPECIALTIES AS REQUIRED BY GAS UTILITY; MAINTAIN ALL CODE-REQUIRED CLEARANCES AT GAS METER AND GAS SERVICE; TOTAL LOAD 340 CFH (VERIFY)

DIV. 23 SHALL PROVIDE ALL NAT. GAS PIPING; VERIFY LOCATIONS OF ELEC. EQUIPMENT, TRANSFORMERS AND PANELBOARDS PRIOR TO PIPING FABRICATION

AREA RESERVED FOR GATE VALVES AND DCV

PROVIDE 18 GA. GALV. S. M. CEILING PLATE AT ACCESS CEILING TILE; PROVIDE 6" (VERIFY) TYPE B VENT DN TO GWH-1; LOCATE PITCHED TYPE B VENT BELOW ACCESS CEILING; VERIFY CLEARANCES TO COMBUSTIBLES PRIOR TO FABRICATION

PROVIDE 18 GA. GALV. S. M. CEILING PLATE AT ACCESS CEILING TILE; PROVIDE ELL DN TO 12" AFF; PROVIDE 14x14x3/8 18 GA. GALV. S. M. COLD AIR DAM WITH INTERIOR FET INSULATION (12x12 INTERIOR DIMS); MOUNT ON 24x24x2 POLY EQUIPMENT CURB; SECURE COLD AIR DAM TO EQUIPMENT CURB

6" DIAM. COMB. AIR INLET AND WALL CAP WITHOUT BACKDRAFT DAMPER, BROAN 641FA OR APPROVED EQUAL

VERIFY LOCATION OF THIS DUCT RUN WITH LOCATIONS OF ROOF TRUSSES PRIOR TO DUCTWORK FABRICATION (TYP COMB. AIR INLET AND OUTDOOR AIR INLET)

20x16 UP TO ATTIC; VERIFY WITH LOCATIONS OF ROOF TRUSSES PRIOR TO DUCTWORK FABRICATION (TYP)

8"Ø (TYP 5) VOLUME DAMPER (TYP)

FURNISH ROOF CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN, BROAN 634 OR APPROVED EQUAL; TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION (TYP 2)

RIDGELINE ABOVE (VERIFY)

12x4 HDPE DN; 12x4 GALV. S. M. ELL; B.O.D. 1'-0" AFF; 12x4 WALL REGISTER; (TYP 4)

VERIFY LOCATION OF THIS DUCT RUN WITH LOCATIONS OF ROOF TRUSSES PRIOR TO DUCTWORK FABRICATION

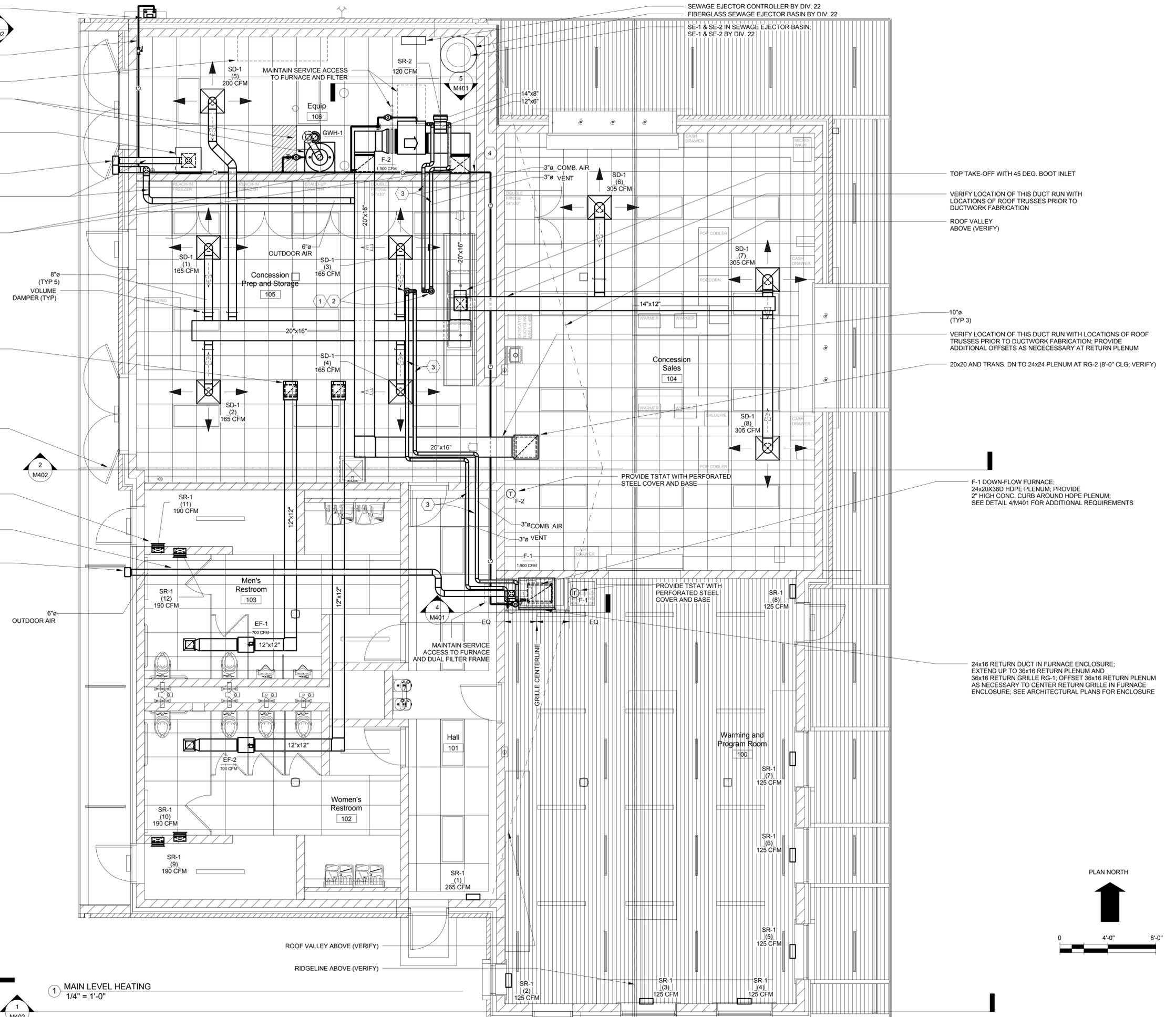
6" DIAM. OUTDOOR AIR INLET WALL CAP WITHOUT BACKDRAFT DAMPER, BROAN 641FA OR APPROVED EQUAL (TYP 1 AT EACH FURNACE)

GENERAL NOTES FOR DIVISION 23 HVAC

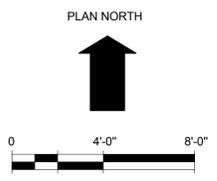
1. PROVIDE SUPPLY, RETURN, EXHAUST, OUTDOOR AIR AND COMB. AIR DUCTWORK IN ATTIC ABOVE; VERIFY ROOF TRUSS LOCATIONS AND INSUL. THICKNESS PRIOR TO DUCTWORK FABRICATION; PROVIDE TYPE B VENT FOR GAS WATER HEATER GWH-1
2. PROVIDE FURNACE MANUFACTURER'S FILTER FRAME AND FILTERS; PROVIDE ONE EXTRA SET OF FILTERS AND TURN OVER TO OWNER; MAINTAIN SERVICE ACCESS TO FURNACE FILTERS AND FURNACE ENCLOSURES (TYP 2 FURNACES)
3. PROVIDE 1" PVC DRAIN PIPING FROM CONDENSING FURNACES DOWN TO FLOOR DRAIN (TYP 2 FURNACES)
4. PROVIDE 3/4" GAS PIPING BRACH LINE TO ALL FUEL-FIRED EQUIPMENT; PROVIDE ISOLATION VALVE AND DRIP LEG FOR ALL FUEL-FIRED EQUIPMENT; SEE PLAN VIEWS FOR HORIZONTAL GAS PIPING SIZES
5. DOMESTIC WATER PIPING PROVIDED BY DIVISION 22, PLUMBING; COORDINATE GAS PIPING LOCATIONS AND HANGERS WITH DIVISION 22, PLUMBING, AND VERIFY LOCATIONS OF DOMESTIC WATER PIPING PRIOR TO GAS PIPING FABRICATION

PLAN KEYNOTES FOR DIVISION 23 HVAC

1. PROVIDE FURNACE MFR'S CONCENTRIC VENT AND COMB. AIR ROOF TERMINATION ASSEMBLY, AND INSTALL THRU ATTIC SPACE ABOVE; PROVIDE GALV. STEEL STRUT SUPPORTS FOR FURNACE MFR'S CONCENTRIC VENT AND COMB. AIR, AND INSTALL IN ATTIC SPACE ABOVE; PROVIDE CUTTING AND PATCHING AT ROOF SHEATHING; VERIFY FURNACE MFR'S CLEARANCE TO COMBUSTIBLES PRIOR TO PIPING AND DUCTWORK FABRICATION
2. FURNISH GALV. STEEL TALL CONE FLASHING WITH RUBBER BOOT (VERIFY SIZE) FOR FURNACE MFR'S CONCENTRIC VENT AND COMB. AIR, AND TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION
3. PROVIDE 3" (VERIFY) PVC VENT AND COMB. AIR LINES, AND ROUTE TO FURNACE MFR'S CONCENTRIC VENT AND COMB. AIR ROOF TERMINATION ASSEMBLY; PROVIDE SUPPORTS, FITTINGS AND ROUTING IN COMPLIANCE WITH MFR'S REQUIREMENTS AND RECOMMENDATIONS
4. GAS PIPING SOUTH OF THIS LOCATION IN EQUIP ROOM 106 SHALL BE CONCEALED WITHIN SOFFITS BELOW ACCESS CEILING; PROVIDE TYPE 'L' COPPER PIPING AND BRAZED FITTINGS IN ALL CONCEALED LOCATIONS; PROVIDE ADDITIONAL FITTINGS AND OFFSETS AS NECESSARY TO CONCEAL GAS PIPING IN SOFFITS; VERIFY LOCATIONS AND ELEVATIONS OF SOFFITS PRIOR TO PIPING FABRICATION



1 MAIN LEVEL HEATING
1/4" = 1'-0"



PROJECT NUMBER:	AEI 700130.002
DATE OF ISSUE:	APRIL 10, 2015
DESIGNED BY:	ALBERTSON
PREPARED BY:	ALBERTSON

I HEREBY CERTIFY THAT THIS DOCUMENT IS THE PROPERTY OF ALBERTSON ENGINEERING INC. AND THAT I AM SUPERVISING AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

J. Skowron
April 10, 2015
16630

REVISIONS:	
SHEET NAME:	MAIN LEVEL HEATING

4/21/2015 9:19:07 AM

PLUMBING FIXTURE SCHEDULE									
TAG	MFR	MODEL	DESCRIPTION	CW (IN.)	HW (IN.)	WASTE (IN.)	VENT (IN.)	NOTES	
WC-1, WC-2	American Standard	2257.101 AFTWALL	WHITE VITREOUS CHINA FLUSH VALVE WALL MOUNTED WATER CLOSET WITH BACK OUTLET, ELONGATED BOWL, SIPHON JET, 1.6 GALLON PER FLUSH, 1-1/2" TOP SPUD, MOUNT AT HEIGHT AS SHOWN ON ARCHITECTURAL DRAWINGS; - FLUSH VALVE: LEVER OPERATED CHROME PLATED DIAPHRAGM TYPE 1.6 GPF FLUSH VALVE WITH CHROME PLATED TAILPIECE AND ESCUTCHEONS, SLOAN ROYAL 111-1.6; - SEAT: WHITE OPEN FRONT TOILET SEAT WITH SELF SUSTAINING CHECK HINGES, OLSONITE 95 SSCT OR APPROVED EQUAL; - CARRIERS: HORIZONTAL SINGLE ADJUSTABLE NO-HUB CARRIERS, LEFT AND RIGHT HAND, PROVIDE AUXILIARY 2" INLETS FOR URINALS, JOSAM 12674 & 12684 WITH -AUX, OR APPROVED EQUAL, OR HORIZONTAL BACK-TO-BACK ADJUSTABLE NO-HUB CARRIERS, PROVIDE HIGH ROUGH-IN CARRIERS FOR ADA WC-2 FIXTURES, JOSAM 12694 WITH -35 FOR ADA, OR APPROVED EQUAL	1	-	4	2	WC-2 SIMILAR, EXCEPT MOUNT AT ADA HEIGHT	
U-1, U-2	American Standard	6590.001 WASHBROOK	WHITE VITREOUS CHINA WALL MOUNTED LOW CONSUMPTION URINAL WITH BACK OUTLET, 2" EXTENDED SIDES, SIPHON JET, 1.0 GALLON PER FLUSH, 3/4" TOP SPUD, MOUNT AT ELEVATION AS SHOWN ON ARCHITECTURAL DRAWINGS; - FLUSH VALVE: LEVER OPERATED CHROME PLATED DIAPHRAGM TYPE 1.0 GPF FLUSH VALVE WITH CHROME PLATED TAILPIECE AND ESCUTCHEONS, SLOAN ROYAL 186-1.0; - CARRIER: PLATE TYPE CARRIER WITH FLOOR MOUNTED UPRIGHTS, BLOCK BASES AND BEARING PLATES, JOSAM 17560-UR OR APPROVED EQUAL	3/4	-	2	1-1/2	U-2 SIMILAR EXCEPT MOUNT AT ADA HEIGHT	
L-2	Bradley Corporation	AV60	Advocate® Lavatory System - AV-Series; WALL-MOUNTED 2-LAVATORY FIXTURE WITH INTEGRAL AUTOMATIC FAUCETS AND TMA ASSE 1070 LISTED THERMOSTATIC MIXING VALVE, HAND DRYERS AND SOAP DISPENSERS WITH SOAP TANK AND PUMP; PROVIDE MANUFACTURER'S WALL HANGER FRAMES, INSTALLATION HARDWARE AND ADDITIONAL THRU-BOLTS AND BACKER PLATES AS NECESSARY TO MOUNT IN LOCATIONS AS SHOWN ON ARCHITECTURAL DRAWINGS; PROVIDE TERREON BOWL IN ANY STANDARD COLOR AS SELECTED BY ARCHITECT; PROVIDE DRAIN PREPACK (DRAIN, CAP, STRAINER AND DRAIN ADAPTER); PROVIDE PLASTIC 1-1/2" P-TRAP ASSEMBLIES; PROVIDE MANUFACTURER'S 30"x20" TRAP COVER ENCLOSURES AND FASTENERS	3/4	3/4	1-1/2	1-1/2		
SK-1	ADVANCE TABCO	7-PS-70	HAND SINK WITH 10"x14"x5" DEEP BOWL FABRICATED FROM 20 GA. TYPE 304 STAINLESS STEEL WITH OVERFLOW AND 4" O.C. SPLASH-MOUNTED FAUCET HOLES; PROVIDE 1-1/2" STAINLESS STEEL DRAIN AND BASKET; - FAUCET: CHROME PLATED SPLASH-MOUNTED FAUCET SHALL BE 4" O.C. WITH INDIVIDUAL HOT AND COLD VALVES WITH 2-3/8" FAUCET HANDLES, 5-1/4" RIGID GOOSENECK SPOUT AND 1.5 GPM AERATOR, CHICAGO FAUCETS W4W-GN2AE35-369AB WITH 520-001KJKABRBF SUPPLY ELBOWS; - PROVIDE 3/8" LEAD FREE ASSE 1070 LISTED SATIN CHROME FINISHED THERMOSTATIC MIXING VALVE, WATTS LFUSG-B-SC; MOUNT UNDER SINK; - PROVIDE PREWRAPPED 1-1/4" CAST BRASS P-TRAP ASSEMBLY AND TAILPIECE; PROVIDE 2 SUPPLY COVERS, PROWRAP PW2125 OR APPROVED EQUAL	1/2	1/2	1-1/2	1-1/2		
SK-3	ADVANCE TABCO	94-43-72-36RL	3 COMPARTMENT NSF 14 GA. TYPE 304 STAINLESS STEEL SINK WITH INDIVIDUAL 24"x24"x14" DEEP BOWLS WITH RADIUS CORNERS; 11" HIGH BACKSPASH; 36" INTEGRAL STAINLESS STEEL RIGHT AND LEFT HAND DRAIN BOARDS WITH TWO (2) ADDITIONAL SUPPORT LEGS FOR EACH DRAIN BOARD; ALL CORNERS SHALL BE WELDED, GROUND AND POLISHED; PROVIDE 1-5/8" DIAM. TUBULAR STAINLESS STEEL LEGS WITH ADJUSTABLE HEIGHT CROSS BRACING; PRIOR TO ASSEMBLY, SHOP CUT AND DE-BUR SUPPORT LEGS AS NECESSARY TO MOUNT SINK AT ADA HEIGHT AS DETAILED AND NOTED ON ARCHITECTURAL PLANS - FAUCETS: QUANTITY 2; CHROME PLATED SPLASH-MOUNTED FAUCETS SHALL BE 8" O.C. WITH INDIVIDUAL HOT AND COLD 1/4" TURN CARTRIDGE VALVES, 2-3/8" FAUCET HANDLES, 15" L SWING FULL FLOW SPOUT WITH 2.2 GPM AERATOR, CHICAGO FAUCETS 631-L12WFAFCP WITH TWO SETS OF 369-PRJKCP 2-3/8" HANDLES AND TWO L15JKABCP 15" SPOUTS; - DRAINS: PROVIDE 3 STAINLESS STEEL DRAINS AND STAINLESS STEEL BASKET STRAINERS, 3-1/2" DIAM. WITH 1-1/2" STAINLESS STEEL DRAIN OUTLETS	3/4 (QTY 2)	3/4 (QTY 2)	2 (QTY 3)	2	PROVIDE TWO (2) PLASTIC ENGRAVED SIGNS WITH 1-1/2" HIGH LETTERING: "CAUTION, 140F WATER, WEAR SUITABLE HAND PROTECTION" AND MOUNT SIGNS ON WALL ABOVE SINK FAUCETS	
SS-1	MUSTEE	63M	CRUSHED NATURAL STONE AND POLYESTER COMPOSITE SERVICE SINK, 24"x24"x10" HIGH WITH 2" BRASS DRAIN ASSEMBLY, THREE STAINLESS STEEL BUMPER GUARDS AND TWO 24"W X 12"H 20 GA. TYPE 304 STAINLESS STEEL WALL PANELS WITH #4 BRUSHED FINISH; - FAUCET: CHROME PLATED BRASS MIXING FAUCET WITH ADJUSTABLE ARMS, 22-3/8" FAUCET HANDLES, COMPRESSION OPERATING CARTRIDGES, 1/2" NPT THREADED INLETS, 3/4" MALE HOSE THREAD OUTLET WITH ATMOSPHERIC VACUUM BREAKER AND WALL-MOUNTED PAIL HOOK BRACE, POLISHED CHROME FINISH, CHICAGO FAUCETS 897-CP WITH 3697-PRJKCP FAUCET HANDLES; - PROVIDE 3/4" LEAD FREE ASSE 1017, 1069 & 1070 LISTED THERMOSTATIC MIXING VALVE, WATTS LFMMV; MOUNT IN ACCESSIBLE LOCATION	1/2	1/2	3	1-1/2	PROVIDE MFR'S STAINLESS STEEL WALL PANELS	
DF-2	Elkay	EDFPVR217RC	WALL HUNG BARRIER FREE ADA TWO LEVEL DRINKING FOUNTAIN (NO CHILLER), AND VANDAL RESISTANT PUSH BUTTONS AND BUBBLERS, AND WITH COMPOSITE SOLID SURFACE BOWLS WITH STAINLESS STEEL GRID STRAINERS, VANDAL-RESISTANT BOTTOM COVERS; PROVIDE ADDITIONAL MOUNTING THRU-BOLTS AND WASHERS PER MFR'S ROUGH-IN INSTRUCTIONS; MOUNT AT HEIGHT AS SHOWN ON ARCHITECTURAL DRAWINGS - PROVIDE FLOOR MOUNTED CARRIER, JOSAM 17905 OR EQUAL	1/2 (QTY 2)	-	1-1/2 (QTY 2)	1-1/2 (QTY 2)		
WH-1	WADE	8600-175	3/4" NON-FREEZE WALL HYDRANT WITH STRAIGHT INLET CONNECTION, BRONZE CASING, ANTI-SIPHON BACKFLOW PREVENTER AND NICKEL BRONZE HEAD, SATIN FINISH NICKEL BRONZE BOX WITH TEE-WRENCH LOCKING COVER; VERIFY REQUIRED LENGTH WITH DIVISION 03 CONCRETE AND CMU BLOCK WALLS; PROVIDE WALL CLAMP	3/4	-	-	-		

GENERAL NOTES (APPLY TO ALL PLUMBING FIXTURES AND FLOOR DRAINS)

- COORDINATE FLUSH VALVE AND FAUCET ROUGH-INS WITH ARCHITECTURAL ELEVATIONS, MANUFACTURER'S SUBMITTALS AND CASEWORK SUBMITTALS PRIOR TO PIPING FABRICATION AND PLUMBING ROUGH-IN
- ALL FLUSH VALVES AND FAUCETS SHALL BE CHROME PLATED POLISHED BRASS; ALL EXPOSED PIPING SHALL BE CHROME PLATED BRASS
- PROVIDE POLISHED CHROME PLATED BRASS SUPPLIES AT ALL LOCATIONS; STOP VALVES SHALL BE MULTI-TURN CHROME PLATED BRASS 1/2" FIP x 3/8" COMPRESSION ANGLE STOPS WITH LOCK SHIELDS AND LOOSE KEY HANDLES, BRASSCRAFT S-OR17X C1 OR APPROVED EQUAL; PROVIDE CHROME PLATED BRASS ESCUTCHEONS AT ALL WALL PENETRATIONS; ALL EXPOSED PIPING SHALL BE CHROME-PLATED
- VERIFY LOCATIONS AND ELEVATIONS OF GRAB BARS AND BACKERS PRIOR TO ROUGH-IN OF PLUMBING FIXTURES, FLUSH VALVES AND FAUCETS
- PROVIDE ONE (1) STAINLESS STEEL ACCESS PANEL AT DRINKING FOUNTAIN FOR SERVICE ACCESS TO P-TRAP; PROVIDE ONE(1) STAINLESS STEEL ACCESS PANEL NEAR MEN'S WC-2 FOR INSPECTION ACCESS TO PLUMBING CHASE; SEE SECTION 220500, COMMON WORK RESULTS FOR PLUMBING, FOR ADDITIONAL REQUIREMENTS ON STAINLESS STEEL ACCESS PANEL, LOCK CYLINDER AND CORE

GAS WATER HEATER SCHEDULE							
TAG	SERVICE	LOCATION	HTG IN/OUT (MBH)	STORAGE (GAL.)	RECOVERY (GPH)	VOLT/PH	NOTES
GWH-1	140 F DOMESTIC HOT WATER	CONCESSION PREP	120 / 96	70	116	120 / 1	1, 2

NOTES

- DIVISION 22 SHALL PROVIDE T&P VALVE AND 1" TYPE 'L' COPPER DOWN TO FLOOR DRAIN; DIVISION 22 SHALL PROVIDE 4" CONC. BASE AND NSF LEGS
- GPH RECOVERY BASED ON 100F TEMPERATURE RISE (40F - 140F)

SEWAGE EJECTOR PUMP SCHEDULE									
TAG	SERVICE	LOCATION	GPM	PUMP HEAD (FT)	MOTOR HP/RPM	VOLT/PH	MOTOR ENCL.	REMOTE CONTROL	NOTES
SE-1	SEWAGE	EQUIP ROOM 106	40	100	5 / 3,450	208 / 3	WATER TIGHT, OIL COOLED	DUPLEX CONTROLLER WITH 4 FLOAT SWITCHES	1, 2, 3
SE-2	SEWAGE	EQUIP ROOM 106	40	100	5 / 3,450	208 / 3	WATER TIGHT, OIL COOLED	DUPLEX CONTROLLER WITH 4 FLOAT SWITCHES	1, 2, 3

NOTES

- DIVISION 22 SHALL PROVIDE 3'-0" DIAM. x 8'-0" DEEP FIBERGLASS SEWAGE EJECTOR BASIN WITH GAS TIGHT STEEL COVER, GUIDE RAIL SYSTEM, CHECK VALVES AND ISOLATION VALVES; BASIN SHALL ALSO BE PROVIDED WITH 4" WASTE ADAPTER INLET HUB (VERIFY IE); 2" DISCHARGE FLANGE AT IE ± 45° (VERIFY IE); 2" NPT CONDUIT FLANGE AND DUPLEX JUNCTION BOX AND STAINLESS STEEL FLOAT SWITCH BRACKET; PROVIDE 2" SCHEDULE 40 GALV. STEEL DISCHARGE PIPING; PROVIDE GALV. STEEL HOLD-DOWN STRAPS OR HOLD-DOWN RING AT BASE OF SUMP BASIN; SECURE BASIN TO TOP OF FOOTING; COORDINATE TOP OF FOOTING ELEV. WITH DIVISION 03 CONCRETE
- DIVISION 22 SHALL PROVIDE SEWAGE EJECTOR PUMP CONTROLLER AND 4 SEALED FLOAT SWITCHES; 120V WIRING TO FLOAT SWITCHES BY DIVISION 26 ELECTRICAL
- DIVISION 22 SHALL PROVIDE 120V AMBER SEWAGE EJECTOR BASIN HIGH LEVEL ALARM LIGHT AND EXTERIOR WALL MOUNTING BRACKET, FEDERAL SIGNAL LP3PL-120A AND LWMB2 OR APPROVED EQUAL; MOUNT AT ELEV. AS SHOWN ON ARCHITECTURAL PLANS AND ELEVATIONS; POWER WIRING AND J-BOX AT ALARM WALL MOUNTING BRACKET BY DIVISION 26 ELECTRICAL

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PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER: AE1700130.002	DATE OF ISSUE: APRIL 10, 2015	DESIGNED BY: ALBERTSON	PREPARED BY: ALBERTSON
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I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE AND CORRECT REPRESENTATION OF THE WORK DONE BY ME OR UNDER MY SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

 J. Skowron
 APRIL 10, 2015
 16630

REVISIONS:

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SHEET NAME:
PLUMBING SCHEDULES

SHEET NO:
M301
 OF 9

CONDENSING FURNACE SCHEDULE (NO COOLING)																
TAG	SERVICE	LOCATION	CFM	ESP (IN. W.C.)	MOTOR HP/RPM	FAN DIAM./RPM	FAN TYPE/DRIVE	HTG IN/OUT (MBH)	HTG EAT/LAT (F)	HTG FUEL/STAGES	REFRIG	VOLT/PH	MCA/MOCP	REMOTE CONTROL	WEIGHT (LBS)	NOTES
F-1	WARMING RM AND RRs	WARMING RM ENCLOSURE	1,900	0.75	1 / 1,725	11.5 x 10 / 1,725	FC / DIRECT	110 / 106	60 / 110	NAT. GAS / 1	(NONE)	120 / 1	11.5 / 15	TSTAT	200	1, 2, 3, 4, 5, 6
F-2	PREP AND SALES	EQUIP ROOM 106	1,900	0.75	1 / 1,725	11.5 x 10 / 1,725	FC / DIRECT	110 / 106	60 / 110	NAT. GAS / 1	(NONE)	120 / 1	11.5 / 15	TSTAT	200	1, 2, 3, 4, 5, 7

NOTES

- DIVISION 23 SHALL PROVIDE MANUFACTURER'S CONCENTRIC ROOF TERMINATION KIT; PROVIDE FIELD FABRICATED SUPPORTS FOR CONCENTRIC ROOF TERMINATION
- DIVISION 23 SHALL FURNISH TALL CONE FLASHING FOR ROOF TERMINATION KIT, AND TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION
- DIVISION 23 SHALL PROVIDE MANUFACTURER'S HORIZONTAL SUSPENSION KIT AND VIBRATION ISOLATORS; DIVISION 23 SHALL ALSO PROVIDE VERTICAL, HORIZONTAL AND DIAGONAL EPOXY-COATED 1-5/8" x 1-5/8" STEEL STRUT WITH CORNER BRACING FOR WALL MOUNTING HORIZONTAL AIRFLOW FURNACE; ENSURE SERVICE ACCESS IS MAINTAINED AT FURNACE, GAS VALVE AND ASSOCIATED ELECTRICAL COMPONENTS
- DIVISION 23 SHALL PROVIDE MANUFACTURER'S AIR FILTER AND RACK KIT FOR HORIZONTAL RETURN AIR; ENSURE SERVICE ACCESS IS MAINTAINED AT FURNACE, GAS VALVE AND ASSOCIATED ELECTRICAL COMPONENTS
- DIVISION 23 SHALL PROVIDE PROGRAMMABLE TSTAT WITH LCD SCREEN; PROVIDE CONTROL WIRING; PROVIDE 16 GA. PERFORATED STEEL TSTAT COVER WITH 14 GA. STEEL BASE, SHAW PERKINS MODEL TG, SIZE AS NECESSARY TO FIT OVER PROGRAMMABLE TSTAT WITHOUT REMOVING TSTAT FROM BASE OR WALL
- DOWN-FLOW FURNACE; DIVISION 23 SHALL PROVIDE MFR'S TOP-MOUNT DUAL FILTER FRAME AND DUAL FILTERS; PROVIDE 2 EXTRA FILTERS AND TURN OVER TO OWNER
- HORIZONTAL-FLOW FURNACE; DIVISION 23 SHALL PROVIDE RETURN FILTER FRAME AND FILTER; PROVIDE 1 EXTRA FILTER AND TURN OVER TO OWNER

EXHAUST FAN SCHEDULE										
TAG	SERVICE	LOCATION	CFM	ESP (IN. W.C.)	MOTOR HP/RPM	FAN DIAM./RPM	FAN TYPE/DRIVE	VOLT/PH	REMOTE CONTROL	NOTES
EF-1	MEN'S RR 103	MEN'S RR ATTIC	700	0.75	1/4 / 1,725	9.5 / 1,725	BI / DIRECT	120 / 1	BY DIV. 26 (OCC. SENSOR)	1, 2, 3, 4
EF-2	WOMEN'S RR 102	WOMEN'S RR ATTIC	700	0.75	1/4 / 1,725	9.5 / 1,725	BI / DIRECT	120 / 1	BY DIV. 26 (OCC. SENSOR)	1, 2, 3, 4

NOTES:

- DIVISION 23 SHALL PROVIDE PREWIRED MOTOR STARTER SWITCH
- DIVISION 23 SHALL PROVIDE FAN SPEED CONTROL SWITCH AND LOCATE NEAR FAN WIRING ENCLOSURE
- DIVISION 23 SHALL PROVIDE VIBRATION ISOLATION, EPOXY-COATED 1-5/8" x 1-5/8" STEEL STRUT SUPPORTS AND ALL-THREADED ROD MOUNTS; PROVIDE FLEX. DUCT CONNECTORS AT FAN INLET AND FAN OUTLET
- DIVISION 23 SHALL FURNISH ROOF CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN, BROAN 634 OR APPROVED EQUAL; TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION

GRILLES, REGISTERS & DIFFUSERS SCHEDULE										
Tag	Type	Flow	Description	Frame & Additional Info	Finish	Mfr	Model	Notes		
EG-1 (1)	12 x 12	700 CFM	SINGLE DEFLECTION ALUMINUM CONSTRUCTION WITH 1/2" BLADE SPACING, 35 DEGREE DEFLECTION, FIXED LONG BLADES, EXPOSED FASTENERS, 1.25" WIDE BORDER, GALV. STEEL OPPOSED BLADE DAMPER WITH SCREW ADJUSTMENT, SURFACE MOUNT TO DUCT	MOUNT ACCESS CEILING GRID	WHITE	TITUS	355FL	NC 35 MAX.		
EG-1 (2)	12 x 12	700 CFM	SINGLE DEFLECTION ALUMINUM CONSTRUCTION WITH 1/2" BLADE SPACING, 35 DEGREE DEFLECTION, FIXED LONG BLADES, EXPOSED FASTENERS, 1.25" WIDE BORDER, GALV. STEEL OPPOSED BLADE DAMPER WITH SCREW ADJUSTMENT, SURFACE MOUNT TO DUCT	MOUNT ACCESS CEILING GRID	WHITE	TITUS	355FL	NC 35 MAX.		
RG-1	36x16	1900 CFM	SINGLE DEFLECTION ALUMINUM CONSTRUCTION WITH 3/4" BLADE SPACING, 0 DEG DEFLECTION, HORIZONTAL BLADES, EXPOSED FASTENERS, 1.25" WIDE BORDER, SURFACE MOUNT BORDER, PROVIDE ALUMINUM OPPOSED BLADE DAMPER	CENTER IN FURNACE ENCLOSURE; VERIFY BOD	WHITE	TITUS	350ZFL	-		
SR-1 (1)	12 x 4	265 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (2)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (3)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (4)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (5)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (6)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (7)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (8)	12 x 4	125 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, 1/2" CARPET CLAMP FLANGE, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	FRAME 15 (RUBBER FLOOR), TYPE CC CORE CLIP FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-35B		
SR-1 (9)	12 x 4	190 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	BORDER TYPE 12 (3/4" WIDE BORDER FOR MOUNTING IN BLOCK WALL), TYPE C CONCEALED FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-30		
SR-1 (10)	12 x 4	190 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	BORDER TYPE 12 (3/4" WIDE BORDER FOR MOUNTING IN BLOCK WALL), TYPE C CONCEALED FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-30		
SR-1 (11)	12 x 4	190 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	BORDER TYPE 12 (3/4" WIDE BORDER FOR MOUNTING IN BLOCK WALL), TYPE C CONCEALED FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-30		
SR-1 (12)	12 x 4	190 CFM	LINEAR BAR ALUMINUM DIFFUSER WITH 7/32" BARS ON 7/16" CENTERS, 0 DEG. DEFLECTION, HEAVY DUTY SUPPORT BARS SHALL BE ON 6" CENTERS, GALV. STEEL OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER	BORDER TYPE 12 (3/4" WIDE BORDER FOR MOUNTING IN BLOCK WALL), TYPE C CONCEALED FASTENERS	ANNODIZED ALUM.	TITUS	CT-PP-0	DAMPER AG-30		
RG-2	24x24 Eggcrate		1/2" x 1/2" x 1/2" ALUMINUM EGGCRATE CORE, LAY-IN BORDER TYPE 3, 1/16" MESH INSECT SCREEN	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	50F -IS	-		
SD-1 (1)	24x24 - 8 Neck	165 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 8" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (2)	24x24 - 8 Neck	165 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 8" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (3)	24x24 - 8 Neck	165 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 8" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (4)	24x24 - 8 Neck	165 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 8" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (5)	24x24 - 8 Neck	200 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 8" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (6)	24x24 - 10 Neck	305 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 10" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (7)	24x24 - 10 Neck	305 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 10" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SD-1 (8)	24x24 - 10 Neck	305 CFM	SQUARE 3 CONE DIFFUSER FABRICATED FROM STEEL WITH PATTERN CONTROLLER VANES, REMOVABLE INNER CONE ASSEMBLY CONSISTING OF INNER 2 CONES, EQUALIZING GRID, 10" DIAMETER NECK, SURFACE MOUNT BORDER OR LAY-IN BORDER AS NECESSARY TO MATCH CEILING TYPE	MOUNT IN ACCESS CEILING GRID	WHITE	TITUS	TMSA	NC 30 MAX.		
SR-2	12 x 6	120 CFM	DOUBLE DEFLECTION ALUMINUM CONSTRUCTION WITH 3/4" BLADE SPACING, INDIVIDUALLY ADJUSTABLE SHORT FRONT BLADES, EXPOSED FASTENERS, 1.25" WIDE BORDER, SURFACE MOUNT BORDER, PROVIDE 45 DEG. BOOT ENTRY AND 12x8 DUCT CONNECTION	SURFACE MOUNT TO SUPPLY PLENUM	WHITE	TITUS	300FS	NC 30 MAX.		



PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:
 AET/2015/03/002
 DATE OF ISSUE:
 APRIL 10, 2015
 DRAWN BY:
 ALBERTSON
 CHECKED BY:
 ALBERTSON

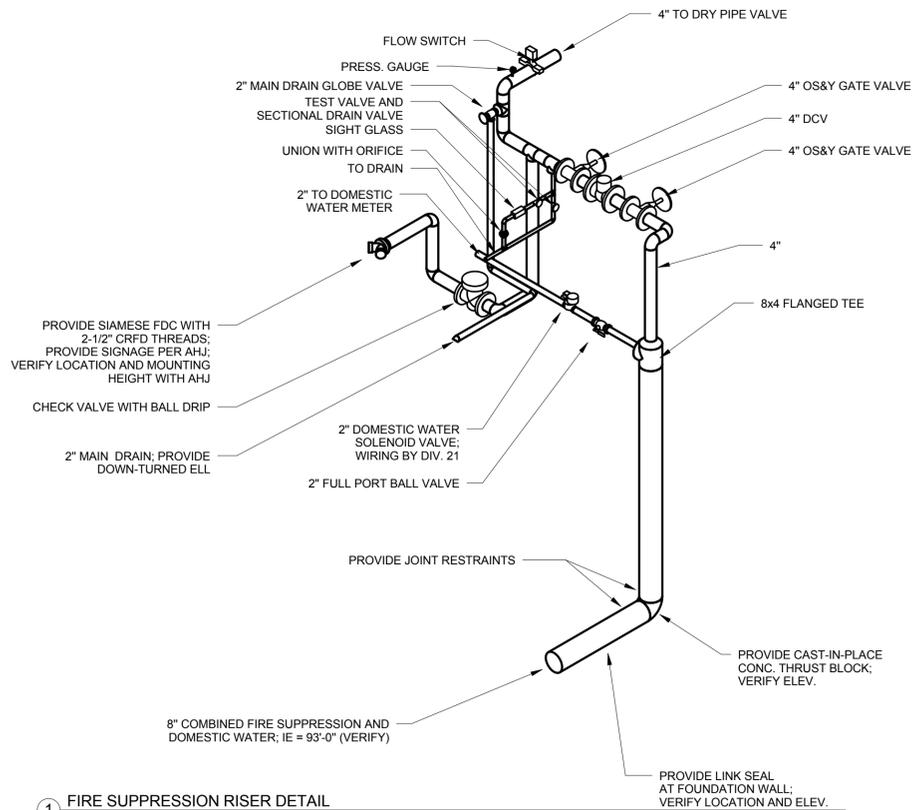
I HEREBY CERTIFY THAT THIS SCHEDULE WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA.

 APRIL 10, 2015
 LICENSE NO. 16630

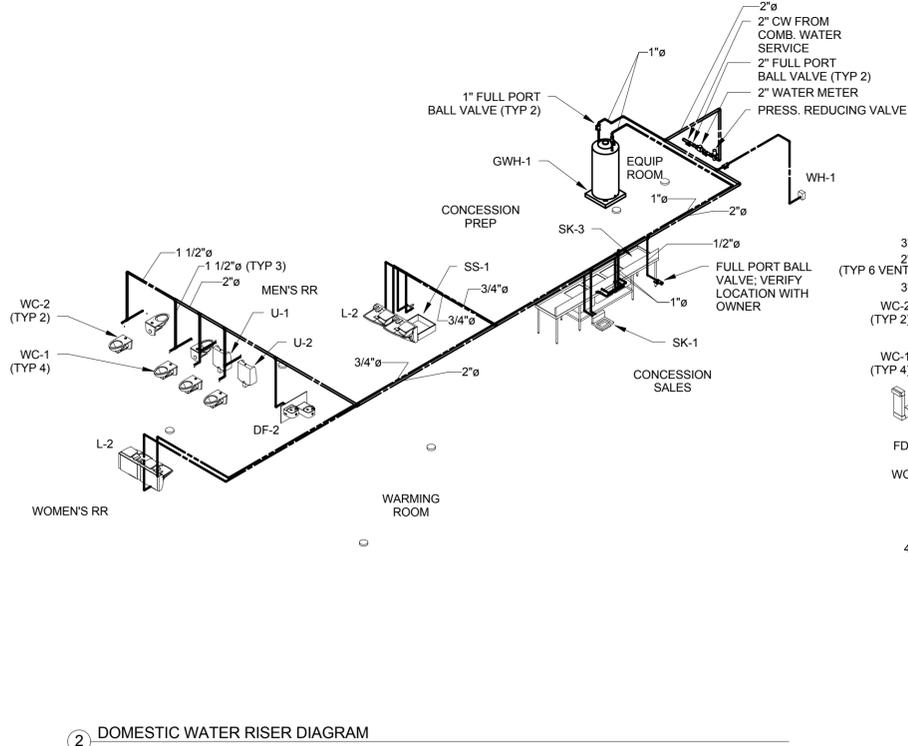
REVISIONS:

SHEET NAME:
 HVAC SCHEDULES

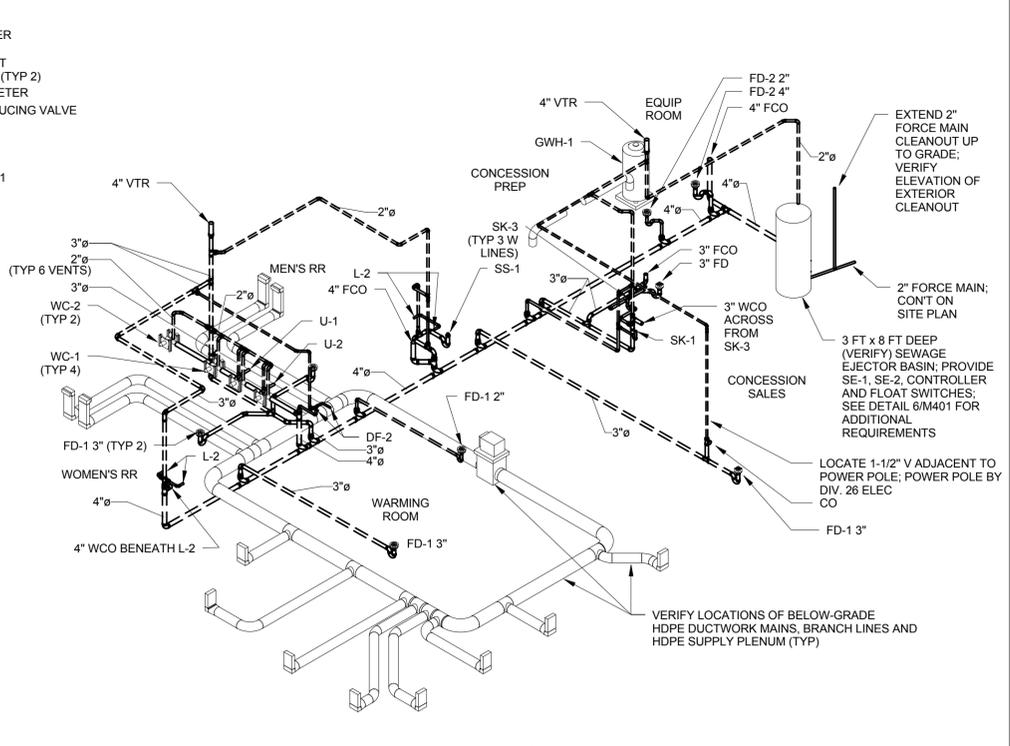
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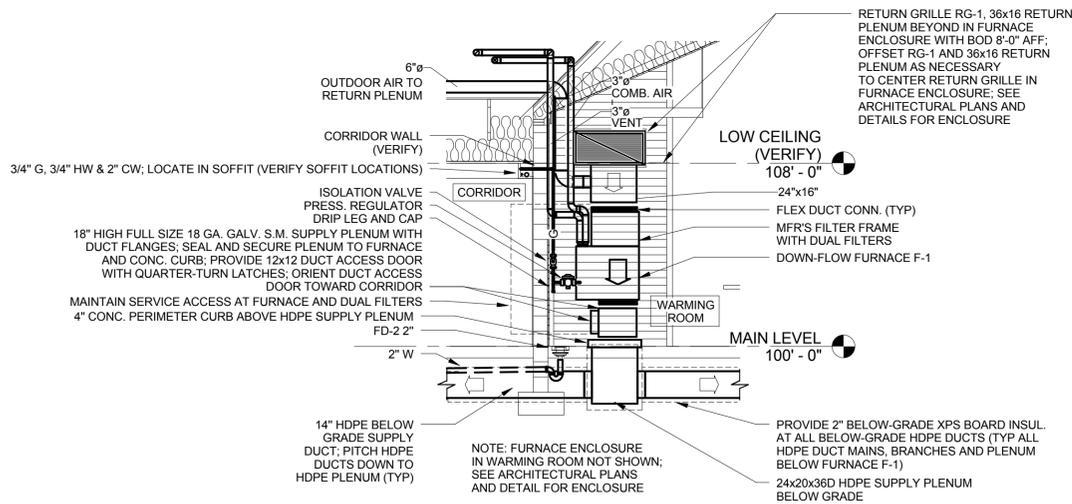
1 FIRE SUPPRESSION RISER DETAIL



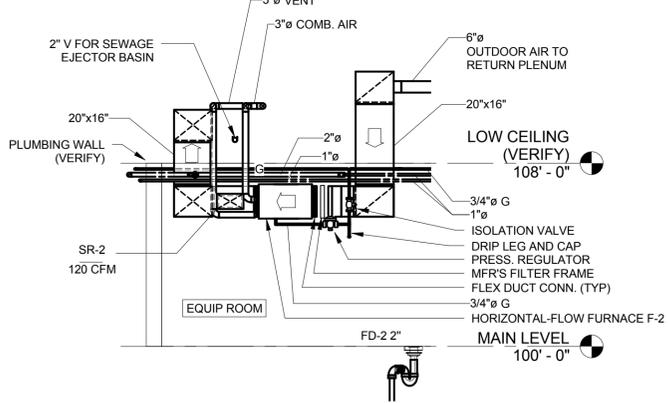
2 DOMESTIC WATER RISER DIAGRAM



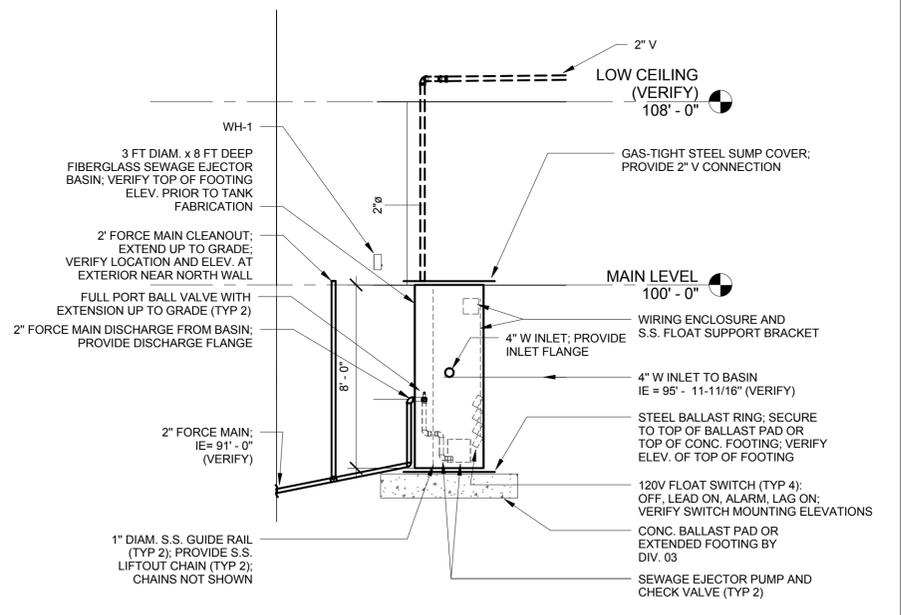
3 WASTE AND VENT RISER DIAGRAM



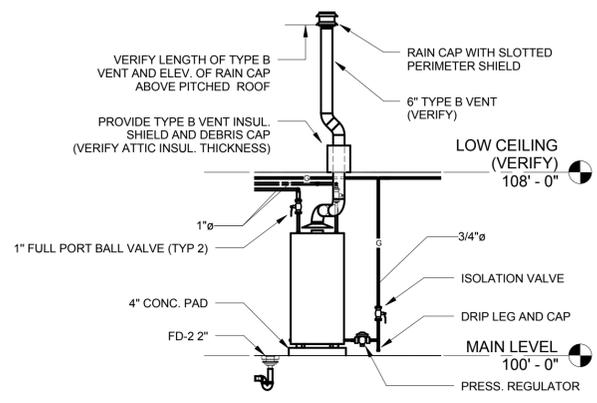
4 DOWN-FLOW FURNACE F-1 DETAIL
1/4" = 1'-0"



5 HORIZONTAL-FLOW FURNACE F-2 DETAIL
1/4" = 1'-0"



6 SEWAGE EJECTOR SUMP BASIN DETAIL
1/4" = 1'-0"



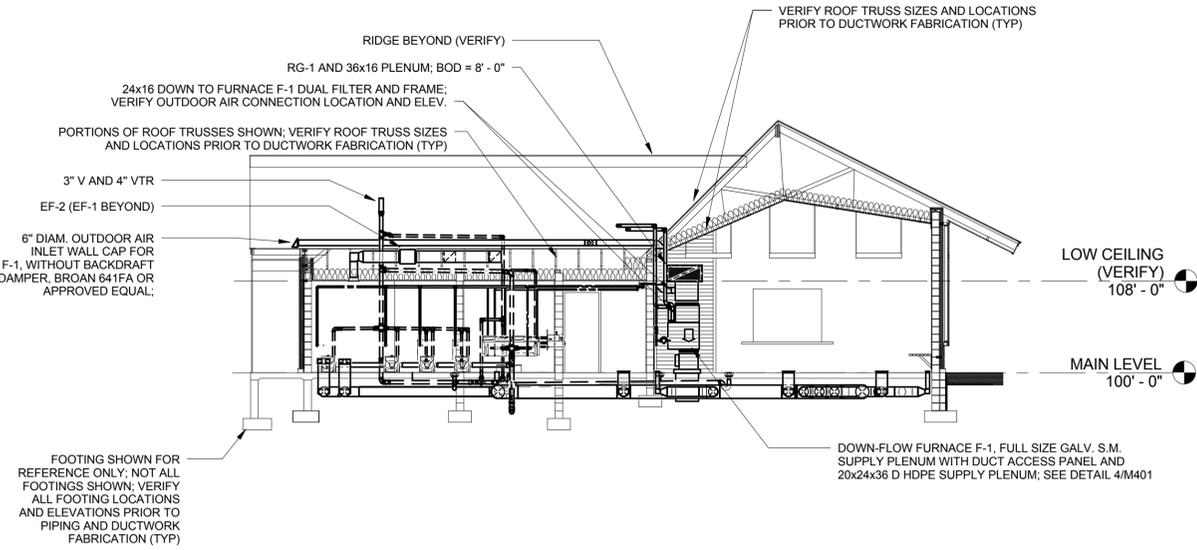
7 GAS WATER HEATER PIPING DETAIL
1/4" = 1'-0"

- NOTES:
1. PROVIDE T&P RELIEF VALVE AND 1" TYPE 'L' COPPER DOWN TO FLOOR DRAIN
 2. PROVIDE ADDITIONAL SUPPORTS AND SPECIALTIES FOR TYPE B VENT AS SHOWN ON PLAN VIEWS AND AS NOTED IN SPECIFICATIONS
 3. VERIFY CLEARANCES TO COMBUSTIBLES PRIOR TO FABRICATION OF TYPE B VENT
 4. FURNISH GALV. S.M. TALL CONE ROOF FLASHING AND TURN OVER TO DIVISION 07 ROOFING FOR INSTALLATION; PROVIDE STORM COLLAR; PROVIDE HIGH TEMPERATURE SEALANT AT STORM COLLAR
 5. OFFSET TYPE B VENT IN ATTIC ABOVE AS NECESSARY TO CLEAR ROOF TRUSES (VERIFY)

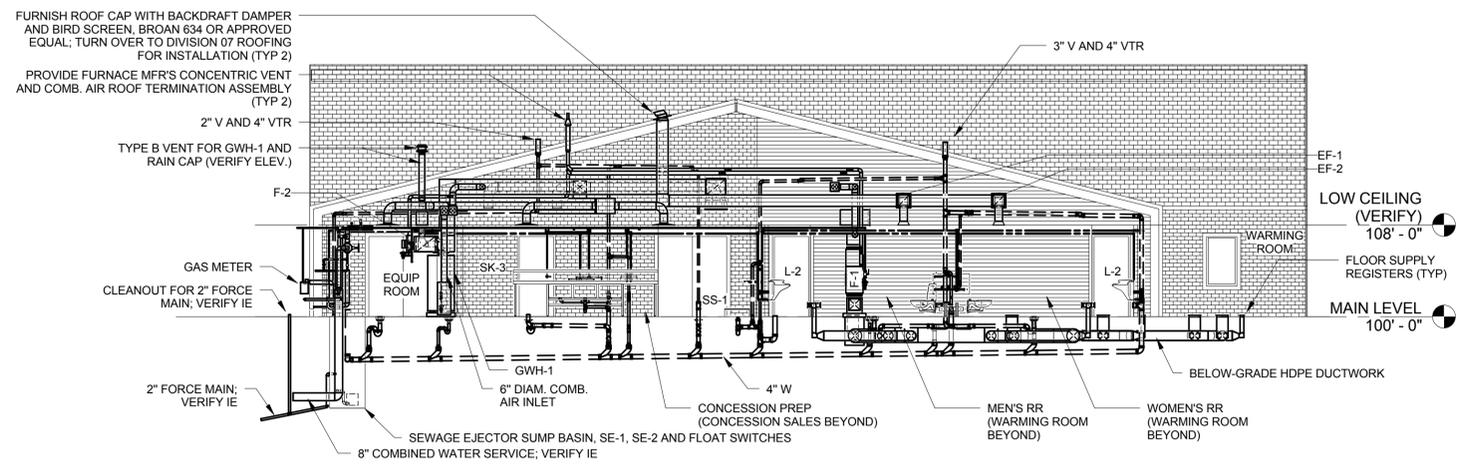
PROJECT NUMBER:	AEI 700130.002
DATE OF ISSUE:	APRIL 10, 2015
DESIGNED BY:	ALBERTSON
DRAWN BY:	ALBERTSON
CHECKED BY:	
DATE:	APRIL 10, 2015
SCALE:	1/8" = 1'-0"

REVISIONS:

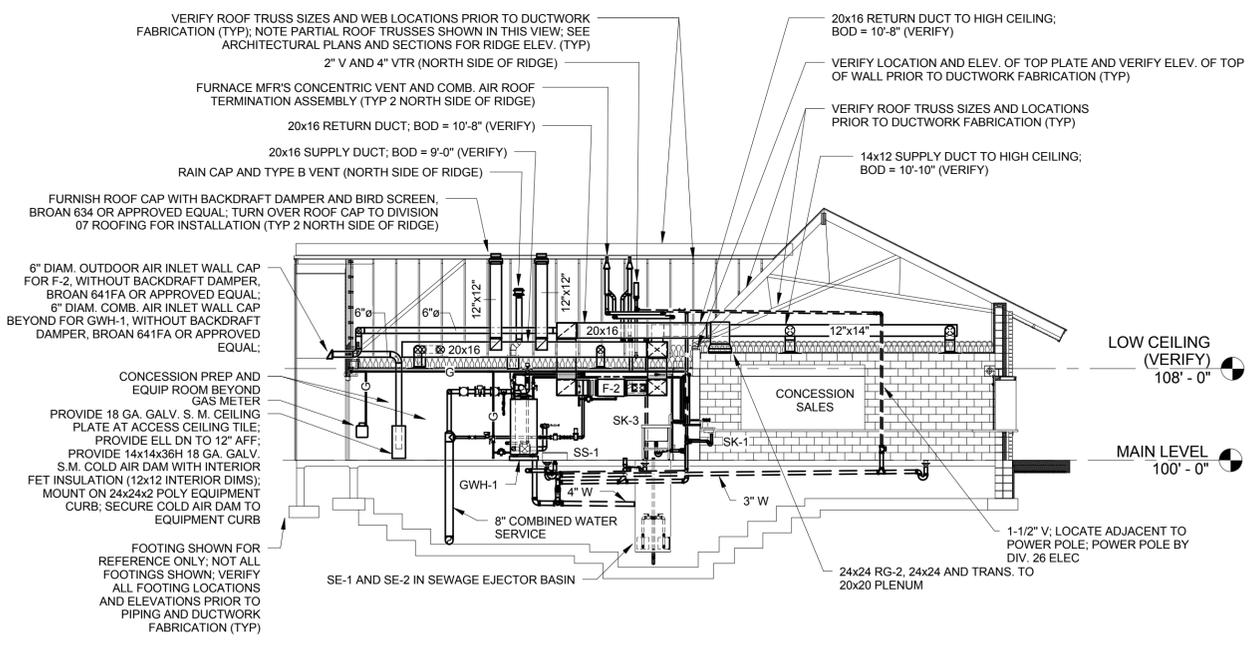
SHEET NAME:
FIRE SUPPRESSION, PLUMBING AND HVAC DETAILS



SECTION 1
SECTION LOOKING NORTH THRU RRs & WARMING
1/8" = 1'-0"



SECTION 3
SECTION LOOKING EAST
1/8" = 1'-0"



SECTION 2
SECTION LOOKING NORTH THRU CONCESSION PREP & SALES
1/8" = 1'-0"

PROJECT NUMBER: AET/700130.002	DATE OF ISSUE: APRIL 10, 2015	DESIGNED BY: ALBERTSON	DRAWN BY: ALBERTSON
I HEREBY CERTIFY THAT THIS DOCUMENT IS MY OWN WORK, THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA, AND THAT I AM PROVIDING PROFESSIONAL SERVICES TO YOU IN ACCORDANCE WITH THE LAWS OF THE STATE OF MINNESOTA. DATE: APRIL 10, 2015 SIGNATURE: <i>[Signature]</i> LICENSE NO.: 16630			

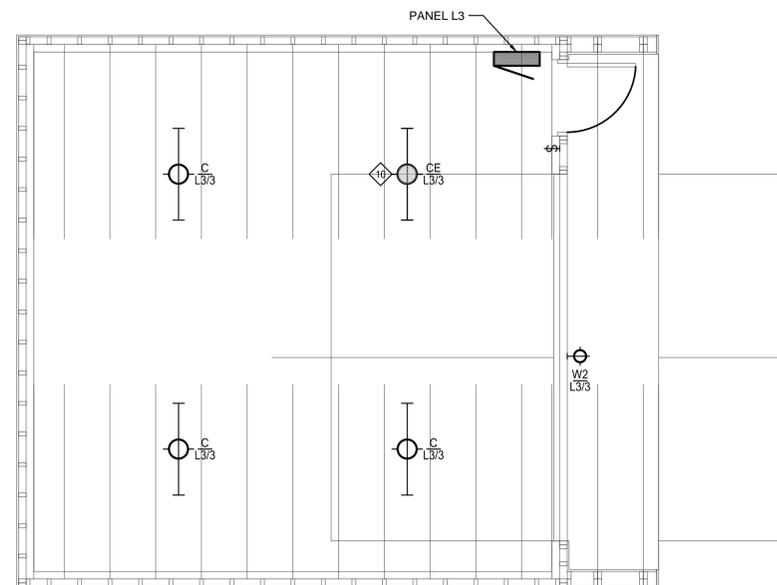
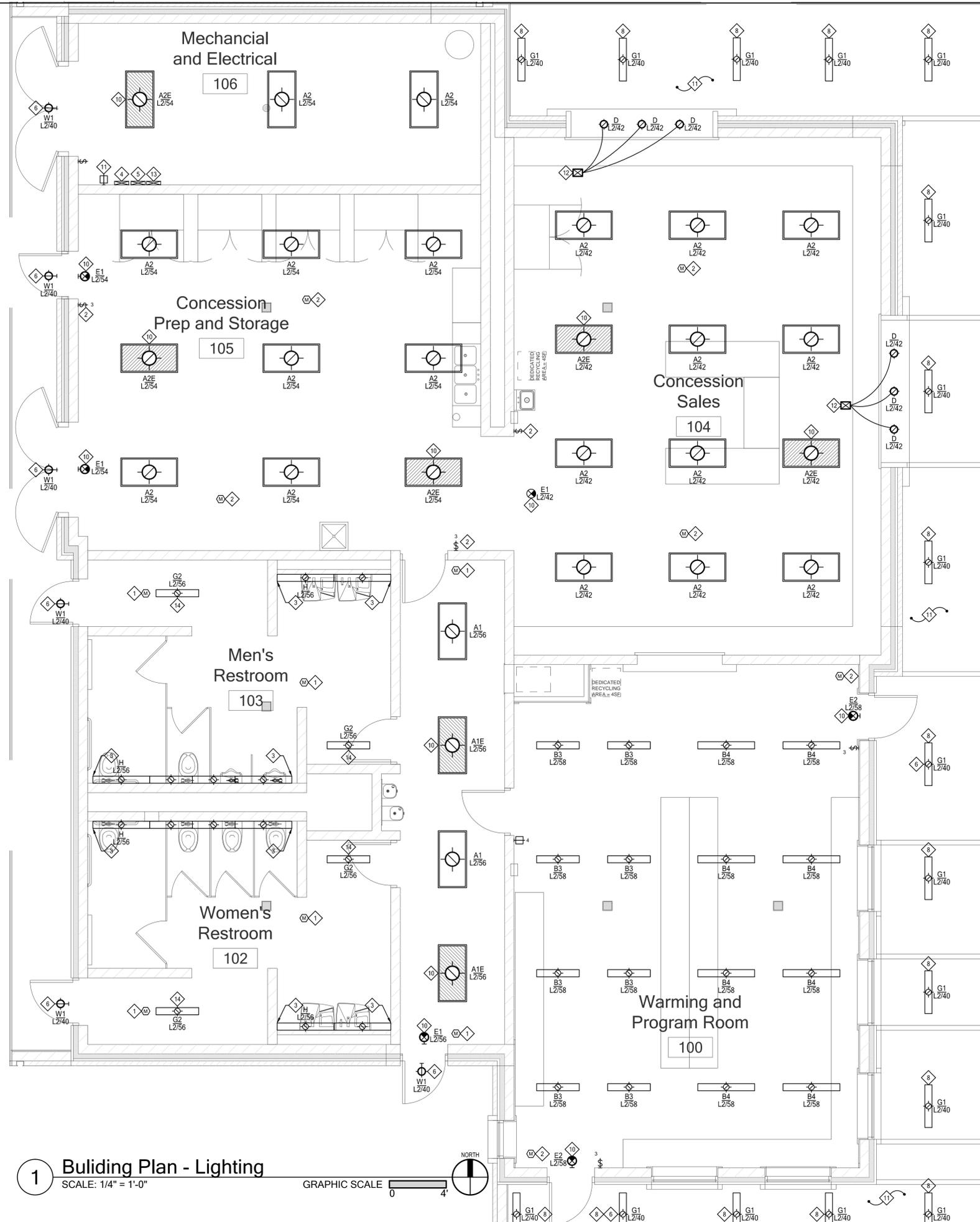
REVISIONS:

SHEET NAME: HVAC DETAILS

FILE NAME:

PRINTED: 4-08-2015

FILE NAME:



- PLAN NOTES:**
1. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR/S WITH TWO RELAY POWER PACKS AND AUXILIARY RELAY POWER PACK FOR CONTROL OF LIGHTS AND EXHAUST FAN IN THIS ROOM. SEE SPECIFICATION SECTION 26 0923 FOR ADDITIONAL INFORMATION.
 2. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR/S WITH TWO POWER PACKS AND AUXILIARY RELAY POWER PACK AND TOGGLE SWITCHES FOR CONTROL OF LIGHTING AS SHOWN IN THIS ROOM. SEE SPECIFICATIONS SECTION 26 0923 FOR ADDITIONAL INFORMATION.
 3. PROVIDE CONTINUOUS WALL-TO-WALL LIGHT FIXTURE AS SHOWN. ELECTRICAL CONTRACTOR TO COORDINATE WITH CEILING INSTALLER PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS REQUIRED AND PROVIDE TELESCOPING SLEEVES TO ACHIEVE A COMPLETE WALL-TO-WALL INSTALLATION. GOOD WORKMANSHIP SHALL BE EVIDENT IN THE FINISHED INSTALLATION OR THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO CORRECT THE POOR WORKMANSHIP AT NO ADDITIONAL COST TO THE OWNER.
 4. PROVIDE RELAY CONTROL PANEL FOR EXTERNAL BUILDING AND PARKING LOT LIGHTS. ROUTE LIGHTING CIRCUITS THROUGH PANEL. UTILIZE DOUGLAS LITE PACK WPAK-33518-S OR APPROVED EQUAL.
 5. FURNISH AND INSTALL EMERGENCY LIGHTING INVERTER REF BODINE #ELI-250-SD OR EQUIVALENT. UNIT TO FEED EMERGENCY LIGHTING AS NOTED. PROVIDE UNSWITCHED HOT LINE FROM BREAKER TO UNIT.
 6. CIRCUITS FED VIA EMERGENCY LIGHTING INVERTER REF PLAN NOTE #5.
 7. NOT USED.
 8. ROUTE FEED FOR THIS CIRCUIT THROUGH RELAY PANEL REF. PLAN NOTE #4 AFTER OUTPUT FROM INVERTER UNIT. ALSO ROUTE LOW VOLTAGE 0-10V CONTROL TO DIMMER LOCATED IN STORAGE ROOM 101. SEE PLAN NOTE #11 FOR ADDITIONAL INFORMATION.
 9. ROUTE FEED FOR THIS UNIT DIRECTLY FROM INDIVIDUAL BREAKER OF RELAY CONTROL PANEL. REF. PLAN NOTE #4
 10. PROVIDE UNSWITCHED HOT LEG OF LIGHTING CIRCUIT FEEDING THIS FIXTURE TO EMERGENCY BATTERY BACK UP.
 11. PROVIDE 0-10V DIMMER FOR CONTROL TYPE G FIXTURES. PROVIDE CONTROL WIRING FOR FIXTURES AS NECESSARY TO CONTROL TYPE G FIXTURES.
 12. SOW REMOTE LED DIMMING DRIVER. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
 13. FURNISH AND INSTALL EMERGENCY LIGHTING INVERTER REF BODINE #ELI-250-SD OR EQUIVALENT. UNIT TO FEED EMERGENCY LIGHTING AS NOTED. PROVIDE UNSWITCHED HOT LINE FROM BREAKER TO UNIT.
 14. CIRCUITS FED VIA EMERGENCY LIGHTING INVERTER REF PLAN NOTE #13.

1 Building Plan - Lighting
SCALE: 1/4" = 1'-0"
GRAPHIC SCALE 0 4

2 Garage Plan - Lighting
SCALE: 1/4" = 1'-0"
GRAPHIC SCALE 0 4

OERTEL ARCHITECTS, LTD
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St. Paul, MN 55102
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www.ediinc.com

PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
SAND CREEK PARK, COON RAPIDS, MN

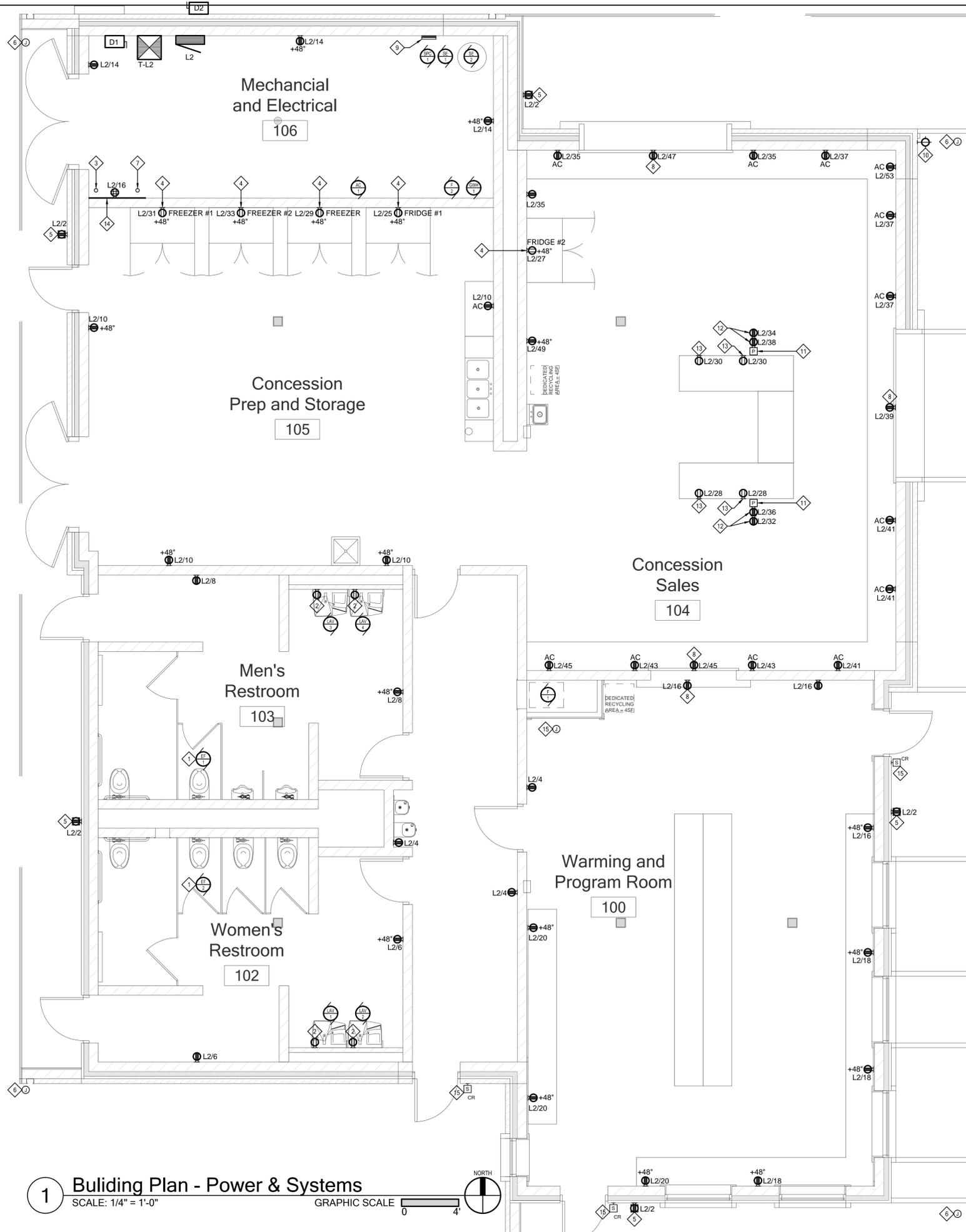
PROJECT NUMBER	14-22	DATE OF ISSUE	APRIL 10, 2015	DRAWN BY	LLA	CHECKED BY	LDB
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, AND REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: *[Signature]*
DATE: APRIL 10, 2015
REGISTRATION: 49280

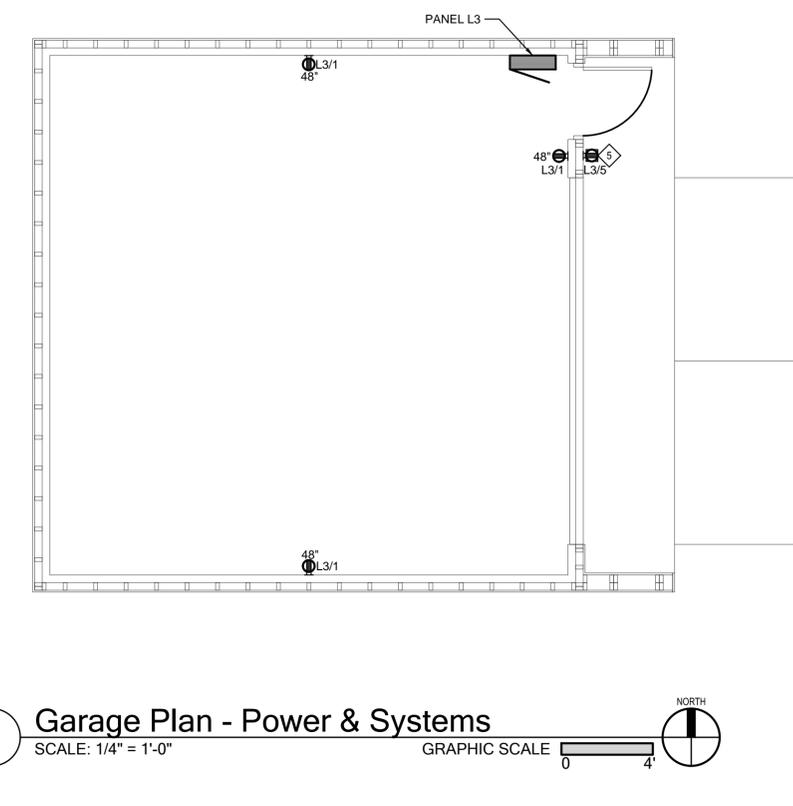
REVISIONS:

SHEET NAME:
FLOOR PLANS
LIGHTING

SHEET NO:
E101
EDI #14-090



1 Building Plan - Power & Systems
SCALE: 1/4" = 1'-0"



2 Garage Plan - Power & Systems
SCALE: 1/4" = 1'-0"



- PLAN NOTES:**
- CONTROL FOR UNIT PROVIDED THROUGH OCCUPANCY SENSOR AUXILIARY RELAY PACKS LOCATED IN THIS ROOM. SEE PLAN NOTE #1 ON SHEET E101 FOR DETAILS.
 - PROVIDE DUPLEX 20-AMP, 120-VOLT RECEPTACLE AT BACK OF UNIT. FOR CONNECTION OF HAND DRYER UNIT AND LOW VOLTAGE CONTROL TRANSFORMER. EACH CIRCUIT TO BE PROTECTED BY GFI BREAKER.
 - FURNISH AND INSTALL 3" CONDUIT FOR TELEPHONE/DATA INSTALLATION. RUN OUTSIDE AND CONNECT TO TELEPHONE CONDUIT INSTALLED BY SITE ELECTRICAL CONTRACTOR. COORDINATE WITH SITE CONTRACTOR. CONDUIT TO BE STUBBED UP 6" ABOVE FLOOR NEXT TO WALL AND CAPPED.
 - RECEPTACLE PROTECTED BY GFCI BREAKER.
 - PROVIDE IN-USE STEEL WEATHER PROOF COVERS AT THESE LOCATIONS. PROVIDE BELL #5881-0 OR APPROVED EQUAL.
 - PROVIDE 1" CONDUIT STUBBED OUT IN A 4"x4" SINGLE GANG BOX AT THIS CORNER LOCATION UNDER ROOF EAVE AND GUTTERING FOR FUTURE SECURITY CAMERA LOCATION. RUN CONDUIT BACK TO ELECTRICAL ROOM 106 TO THE LOCATION SHOWN. REFER TO PLAN NOTE #7. PROVIDE STAINLESS STEEL COVER PLATES OVER BOX. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
 - STUB UP CONDUIT AT THIS LOCATION 6" ABOVE FLOOR FOR FUTURE SECURITY CAMERAS AND CAP CONDUITS. REFER TO PLAN NOTE #6 ON THIS SHEET FOR ADDITIONAL INFORMATION.
 - LOCATE UNDER COUNTER.
 - SEWAGE EJECTOR PUMPS CONTROLLER (SPC) PROVIDED BY DIVISION 22. CONTRACTOR SHALL PROVIDE WIRING AND CONDUIT BETWEEN CONTROLLER, PUMPS AND CONTROLS. UTILIZE TEN (10) #12 IN 3/4" CONDUIT FOR CONTROL WIRING.
 - AMBER SEWAGE EJECTOR ALARM LIGHT PROVIDED BY DIVISION 22. CONTRACTOR SHALL PROVIDE WIRING FOR THIS UNIT FROM SEWAGE PUMP CONTROLLER TO THE UNIT. UTILIZE (4) #12 AWG IN 1/2" CONDUIT. COORDINATE WITH DIVISION 22 FOR THIS INSTALLATION.
 - FURNISH AND INSTALL POWER POLE FOR ROUTING CIRCUITS FROM CEILING DOWN TO USE RECEPTACLES AS SHOWN. WIRE TO RECEPTACLES AS INDICATED. UTILIZE WIRE MOLD 30TP-4V OR EQUAL.
 - RECEPTACLE TO BE INSTALLED IN POWER POLE
 - RECEPTACLE TO BE INSTALLED INSIDE COUNTER IN SURFACE BOX.
 - PROVIDE 4" WIDE 3/4" FIRE RETARDANT PLYWOOD FROM 1'-0" ABOVE FINISHED FLOOR TO CEILING. PAINT WITH GRAY FIRE RETARDANT PAINT.
 - PROVIDE ROUGH-IN AT THESE LOCATIONS FOR CARD ACCESS SYSTEM. PROVIDE POWER WIRING AND CONDUITS AS LAID OUT ON ACCESS CONTROL DETAIL WIRING BACK TO ROOM 106.

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PROJECT NAME:
CITY OF COON RAPIDS, MN
SAND CREEK PARK SITE IMPROVEMENTS
WARMING HOUSE / CONCESSION BUILDING
SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER:	14-22	LA	LDB
DATE OF ISSUE:	APRIL 10, 2015		
DRAWN BY:			
CHECKED BY:			

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DATE: APRIL 10, 2015
REGISTRATION: 40990

REVISIONS:

SHEET NAME:
FLOOR PLANS
POWER & SYSTEMS

SHEET NO:
E201

EDI #14-090

PRINTED: 4-08-2015
PLOT SCALE:
FILE NAME:

FEEDER SCHEDULE							
FEEDER DESIGNATION	QUANTITY PARALLEL FEEDERS	CONDUIT SIZE	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS (SERVICE)	GROUND CONDUCTORS (EQUIPMENT)	CONDUCTORS AMPACITY
1	PRIMARY SERVICE FEEDER FURNISHED AND INSTALLED BY UTILITY						
2	12	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#500 kCMIL	4000 AMPS
3	8	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#400 kCMIL	3000 AMPS
4	5	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#250 kCMIL	2000 AMPS
5	4	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#4/0 AWG	1600 AMPS
6	3	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#3/0 AWG	1200 AMPS
7	2	4"	3#600 kCMIL	1#600 kCMIL	1#3/0 AWG	1#1/0 AWG	800 AMPS
8	2	3-1/2"	3#350 kCMIL	1#350 kCMIL	1#2/0 AWG	1#1 AWG	600 AMPS
9	2	2-1/2"	3#3/0 AWG	1#3/0 AWG	1#2 AWG	1#3 AWG	400 AMPS
10	1	2-1/2"	3#4/0 AWG	1#4/0 AWG	1#2 AWG	1#4 AWG	225 AMPS
11	1	2"	3#4/0 AWG	--	1#2 AWG	1#4 AWG	225 AMPS
12	1	1-1/2"	3#1 AWG	--	1#6 AWG	1#6 AWG	125 AMPS
13	1	1-1/2"	3#2 AWG	1#2 AWG	1#8 AWG	1#8 AWG	100 AMPS
14	1	1-1/4"	3#2 AWG	--	1#8 AWG	1#8 AWG	100 AMPS
15	1	1-1/4"	3#4 AWG	1#4 AWG	1#8 AWG	1#10 AWG	60 AMPS
16	1	1-1/4"	3#4 AWG	--	1#8 AWG	1#10 AWG	60 AMPS
17	1	3/4"	3#10 AWG	1#10 AWG	1#8 AWG	1#10 AWG	30 AMPS
18	1	3/4"	3#10 AWG	--	1#8 AWG	1#10 AWG	30 AMPS
19	1	1"	3#8 AWG	--	1#8 AWG	1#8 AWG	40 AMPS

GENERAL NOTES:

A. 25FT RULE AS PER 240.21C6 APPLIES TO TRANSFORMER SECONDARY CONDUCTORS UNLESS OTHERWISE NOTED.

PLAN NOTES:

- CONTRACTOR SHALL EXTEND 3" CONDUIT FOR BUILDING SERVICE INTO THE CONCESSIONS BUILDING FROM OUTDOOR SITE ELECTRICAL ENCLOSURE. COORDINATE WITH SITE ELECTRICAL CONTRACTOR.
- PROVIDE (4) 4/0AWG PLUS (1) #4AWG GROUND IN 3" CONDUIT FROM OUTDOOR ENCLOSURE BREAKER FEED FOR CONCESSIONS BUILDING TO BUILDING SERVICE DISCONNECT AS SHOWN.
- PROVIDE NEMA 3R DOUBLE THROW 200-AMP, 480-VOLT FUSIBLE 3-POLE, 4-WIRE SERVICE ENTRANCE RATED DISCONNECT SWITCH. UTILIZE EATON DT364NDK OR EQUAL.
- PROVIDE NEMA 3R SINGLE THROW 200-AMP 600-VOLT FUSIBLE 3-POLE DISCONNECT SWITCH ON EXTERNAL WALL OF BUILDING. THIS CONNECTION SHALL BE USED TO FACILITATE CONNECTION OF AN EXTERNAL STANDBY GENERATOR, IN EVENT OF POWER FAILURE TO OPERATE SEWAGE EJECTORS. UTILIZE EATON DH364FRK OR EQUAL.
- GROUND PER NEC 250.
- CONTRACTOR SHALL EXTEND UNDERGROUND CONDUIT AS NEEDED BETWEEN THE CONCESSIONS BUILDING AND THE GARAGE TO PROVIDE FOR THE GARAGE SUPPLY AS SHOWN. UTILIZE (4) #2 AND (1) #8 GROUND FOR SUPPLY FEED.

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 1795 Saint Clair Avenue St. Paul, Minnesota 55105
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 1112 West 34th Street
 St. Paul, MN 55102
 www.ediinc.com
 phone: (651) 995-5186

PROJECT NAME:
CITY OF COON RAPIDS, MN
 SAND CREEK PARK SITE IMPROVEMENTS
 WARMING HOUSE / CONCESSION BUILDING
 SAND CREEK PARK, COON RAPIDS, MN

PROJECT NUMBER	14-22
DATE OF ISSUE	APRIL 10, 2015
DRAWN BY	LLA
CHECKED BY	LDB

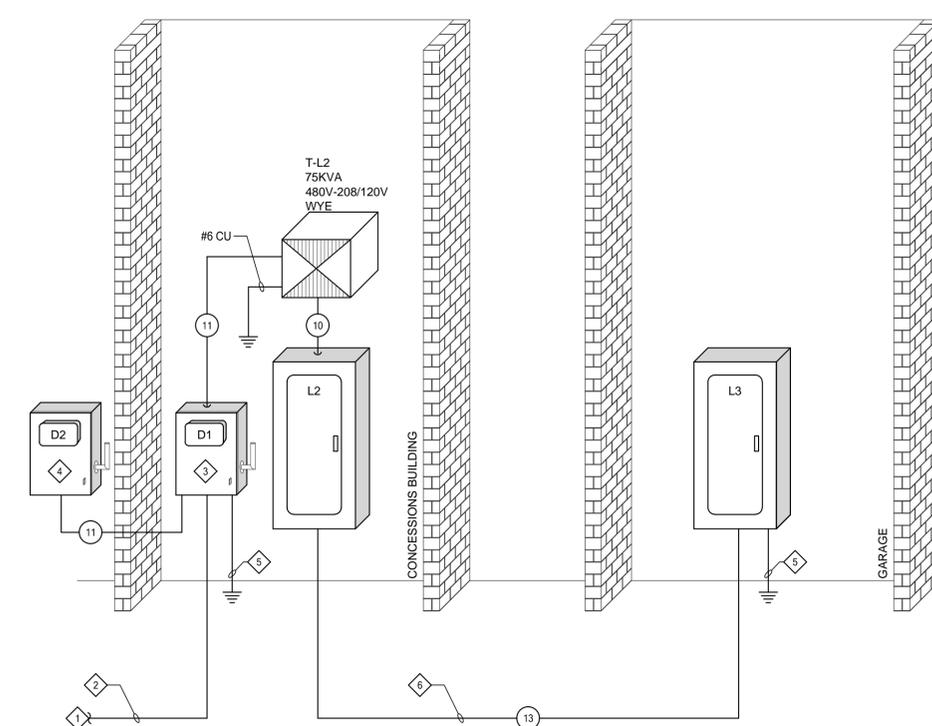
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS OR OTHER DOCUMENT PREPARED FOR ME BY THE ENGINEER WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM AN ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: APRIL 10, 2015
 REGISTRATION: 40290

REVISIONS:

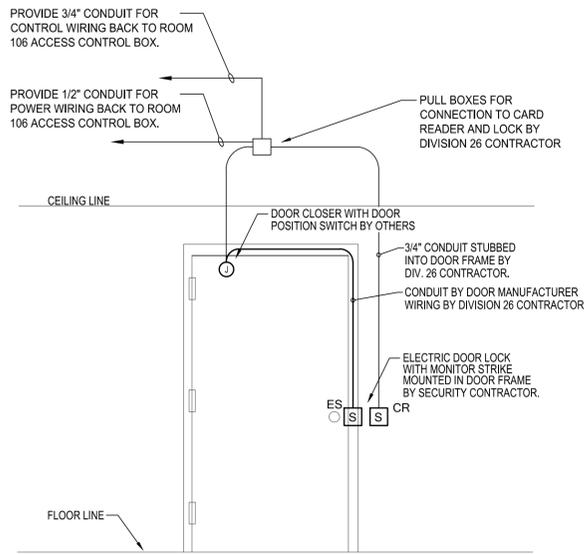
SHEET NAME:
 ELECTRICAL
 RISER DIAGRAM

SHEET NO:
E301
 EDI #14-090

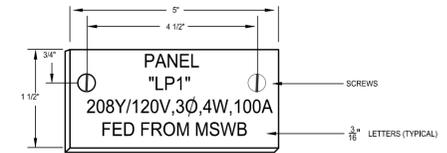


1 Electrical Service Detail
 SCALE: NTS

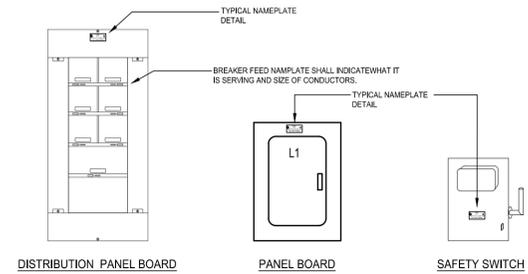
Panel: L3				Voltage: 120/208v, 3Ph, 4w							
No.	Amp/p	Note	Description	Ph	Code L VA	Code C VA	Code R VA	Code M VA	Code E VA	Code K VA	Code D VA
1	20/1		RECEPTACLES	- A -							
3	20/1		LIGHTS	- B -	180						
5	20/1		OUTDOOR RECEPTACLE	- C -		180					
7	20/1		OUTDOOR LIGHT	- A -	180						
9	20/1		SPARE	- B -							
11	20/1		SPARE	- C -							
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2	20/1		SPARE	- A -							
4	20/1		SPARE	- B -							
6	20/1		SPARE	- C -							
8	20/1		SPARE	- A -							
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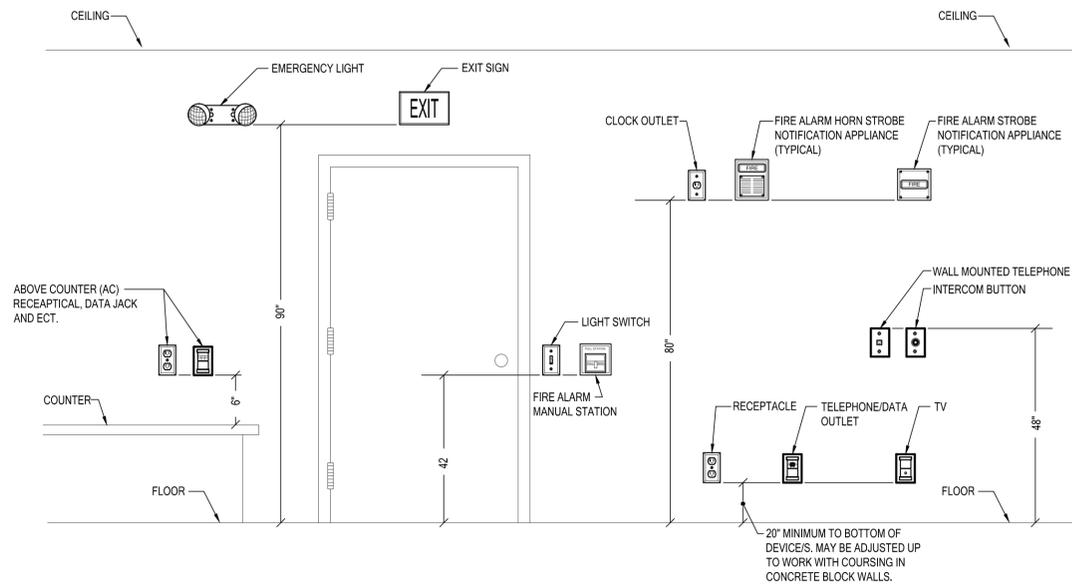
4 Card Access Door Rough-in Detail
Not To Scale



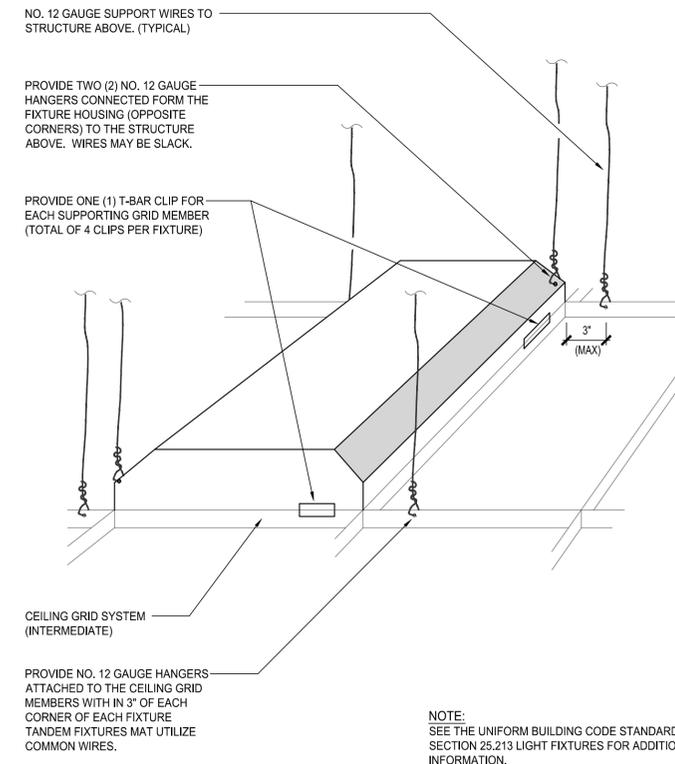
- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
 - NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH PLACARD CENTER LAMINATE. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
 - SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS.
 - NAMEPLATE INFORMATION SHALL INCLUDE DEVICE NAME, SUPPLY VOLTAGE, AMPERAGE AND LOCATION FED FROM.



3 Typical Nameplate Detail
SCALE: NO SCALE



2 Typical Mounting Height Detail (As Applicable)
SCALE: NO SCALE



1 Light Fixture Support Detail
SCALE: NO SCALE

PROJECT NUMBER	14-22	DATE OF ISSUE	APRIL 10, 2015	DRAWN BY	LLA	CHECKED BY	LDB
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SIGNATURE: *[Signature]*
DATE: APRIL 10, 2015
REGISTRATION: 40280

REVISIONS:

SHEET NAME:
ELECTRICAL DETAILS

SHEET NO:
E501
ED#14-090