

GENERAL SYMBOLS

	THERMOSTAT OR TEMPERATURE SENSOR
	THERMOSTAT OR TEMPERATURE SENSOR WITH SECURITY COVER
	MOTOR STARTER
	SPEED CONTROLLER
	START/STOP SWITCH
	CARBON DIOXIDE SENSOR
	EXISTING TO REMAIN (DUCTWORK, PIPING, & EQUIPMENT)
	EXISTING TO BE REMOVED (DUCTWORK, PIPING, & EQUIPMENT)
	NEW DUCTWORK/PIPING
	NEW EQUIPMENT

ABBREVIATIONS

A	COMPRESSED AIR	HRTU	HEAT RECOVERY UNIT
ACC	AIR COOLED CONDENSER	HSR	HEAT SINK RETURN
ACCU	AIR COOLED CONDENSING UNIT	HSS	HEAT SINK SUPPLY
ACU	AIR CONDITIONING UNIT	HTWR	HIGH TEMPERATURE HOT WATER RETURN
AD	ACCESS DOOR	HTWS	HIGH TEMPERATURE HOT WATER SUPPLY
ADJ	ADJUSTABLE	HVAC	HEATING VENTILATING AND AIR CONDITIONING
A/E	ARCHITECT/ENGINEER	HW	HOT WATER
AF	AIR FOL	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	HWS	HOT WATER SUPPLY
AFMS	AIR FLOW MEASURING STATION	HWY	HIGHWAY
AHU	AIR HANDLING UNIT	HX	HEAT EXCHANGER
AL	ALUMINUM	HYD	HYDRANT
AMP	AMPERE	HZ	HERTZ
AP	ACCESS PANEL	IH	INTAKE HOOD
APD	AIR PRESSURE DROP	IFBP	INTERNAL FACE & BYPASS
ASC	ABOVE SUSPENDED CEILING	IN	INCH
ATR	AIR TROFFER - RETURN	INV	INVERT
ATS	AIR TROFFER - SUPPLY	IPLV	INTEGRATED PART LOAD VALUE
AUTO	AUTOMATIC	JWR	JACKET WATER RETURN
B	BOILER	JWS	JACKET WATER SUPPLY
BB	BASEBOARD	KW	KILOWATT
BC	BOOSTER COIL	LAT	LEAVING AIR TEMPERATURE
BCU	BLOWER COIL UNIT	LBS	POUNDS
BDD	BACK DRAFT DAMPER	LD	LINEAR DIFFUSER
BFP	BACKFLOW PREVENTER	LPC	LOW PRESSURE CONDENSATE
BHP	BRAKE HORSEPOWER	LPS	LOW PRESSURE STEAM
BI	BACKWARD INCLINED	LR	LINEAR RETURN
BLDG	BUILDING	LT	LIGHT TROFFER
BOD	BOTTOM OF DUCT	LWT	LEAVING WATER TEMPERATURE
BOP	BOTTOM OF PIPE	M	MOTOR OPERATED DAMPER
BOS	BOTTOM OF STRUCTURE	MAT	MIXED AIR TEMPERATURE
BR	BRINE RETURN	MA	MIXED AIR
BRG	BEARING	MAU	MAKE-UP AIR UNIT
BS	BRINE SUPPLY	MAX	MAXIMUM
BSMT	BASEMENT	MBH	1000 BRITISH THERMAL UNITS/HOUR
BTU	BRITISH THERMAL UNIT	MCA	MINIMUM CIRCUIT AMPS
C	CONVECTOR	MCC	MOTOR CONTROL CENTER
CA	COMBUSTION AIR	MECH	MECHANICAL
CAB	CABINET	MEZZ	MEZZANINE
CCC	COOLING COIL CONDENSATE	MFS	MAXIMUM FUSE SIZE
CD	CEILING DIFFUSER	MH	MANHOLE
CF	CEILING (DESTRATIFICATION) FAN	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CH	CHILLER	MTD	MOUNTED
CWR	CHILLED WATER RETURN	MUA	MAKE-UP AIR UNIT
CWS	CHILLED WATER SUPPLY	NC	NOISE CRITERIA
CJ	CAST IRON OR CUBIC INCH CENTERLINE	NC	NORMALLY CLOSED
CL	CENTERLINE	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NORMALLY OPEN
CMU	CONCRETE MASONRY UNIT	NPLV	NOMINAL PART LOAD VALUE
COMB	COMBINATION OR COMBUSTION	NTS	NOT TO SCALE
CONC	CONCRETE	O	OXYGEN
COND	CONDENSATE	OA	OUTDOOR AIR
CONTR	CONTRACTOR	OAT	OUTDOOR AIR TEMPERATURE
COP	COEFFICIENT OF PERFORMANCE	OC	ON CENTER
CP	CONDENSATE PUMP	OPD	OPPOSED BLADE DAMPER
CRU	COMPUTER ROOM UNIT	P	PUMP
CR	CONDENSER WATER RETURN	PC	PLUMBING CONTRACTOR
CS	CONDENSER WATER SUPPLY	PD	PUMP DISCHARGE
CT	COOLING TOWER	PLBG	PLUMBING
CJ	COPPER	POC	POINT OF CONNECTION
CJH	CABINET UNIT HEATER	PRE	POWER ROOF EXHAUST FAN
CW	COLD WATER	PRELIM	PRELIMINARY
D	DRAIN	PRESS	PRESSURE
DB	DRY BULB	PRV	PRESSURE REDUCING VALVE
DC	DRY COOLER	PS	PRESSURE SWITCH
DDC	DOOR CUTOFF BY GC	PSD	PUMP SUCTION DIFFUSER
DDC	DIRECT DIGITAL CONTROL	PSI	POUNDS PER SQUARE INCH
DEFT	DEPART	PTAC	PACKAGED TERMINAL AIR CONDITIONER
DG	DOOR GRILLE BY GC	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	R	REFRIGERANT
DN	DOWN	RA	RETURN AIR
DSA	DUCT SOUND ATTENUATOR	RCP	RADIANT CEILING PANEL
DSF	DESTRATIFICATION FAN	RD	ROOF DRAIN
DWD	DUAL WALL DUCTWORK	REOD	REQUIRED
DWDI	DOUBLE WIDTH DOUBLE INLET DRAWING	RF	RETURN FAN
DWG	DRAWING	RG	RETURN GRILLE
E	EXISTING	RH	RELIEF HOOD
EAT	ENTERING AIR TEMPERATURE	RHG	REFRIGERANT HOT GAS
EC	ELECTRICAL CONTRACTOR	RL	REFRIGERANT LIQUID
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
EER	ENERGY EFFICIENCY RATIO	RS	REFRIGERANT SUCTION
EFBP	EXTERNAL FACE & BYPASS	RR	RETURN REGISTER
EG	EXHAUST GRILLE	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT	S	SUPPLY
EL	ELEVATION	SA	SUPPLY AIR
ELEC	ELECTRICAL	SCR	SILICONE CONTROLLED RECTIFIERS
EQUIP	EQUIPMENT	SD	SLOT DIFFUSER
ER	EXHAUST REGISTER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
ERU	ENERGY RECOVERY UNIT	SEG	SECURITY EXHAUST GRILLE
ERV	ENERGY RECOVERY VENTILATOR	SF	SUPPLY FAN
ET	EXPANSION TANK	SG	SUPPLY GRILLE
ETR	EXISTING TO REMAIN	SM	SHEET METAL
EW	ELECTRIC WALL HEATER	SO FT	SQUARE FEET
EW	ENTERING WATER TEMPERATURE	SR	SUPPLY REGISTER
EWT	ENTERING WATER TEMPERATURE	SRG	SECURITY RETURN GRILLE
EXT	EXTERIOR OR EXTERNAL	SRV	SAFETY RELIEF VALVE
F	FURNACE	SS	STAINLESS STEEL
F	DEGREES FAHRENHEIT	SSG	SECURITY SUPPLY GRILLE
F&B	FACE & BYPASS	STG	SECURITY TRANSFER GRILLE
F&T	FLOAT & THERMOSTAT TRAP	SWD	SINGLE WALL DUCTWORK
FA	FREE AREA	SWSI	SINGLE WIDTH SINGLE INLET
FC	FORWARD CURVED FAN COIL UNIT	T	THERMOSTAT/TEMPERATURE SENSOR
FCU	FAN COIL UNIT	TA	THROWAWAY
FD	FLOOR DRAIN OR FIRE DAMPER	TCAC	TEMPERATURE CONTROL AIR COMPRESSOR
FFA	FROM FLOOR ABOVE	TCC	TEMPERATURE CONTROL CONTRACTOR
FFB	FROM FLOOR BELOW	TCPC	TEMPERATURE CONTROL PANEL
FILL	FILL LINE	TCV	TEMPERATURE CONTROL VALVE
FLL	FULL LOAD AMPS	TEMP	TEMPORARY
FLEX	FLEXIBLE	TF	TRANSFER FAN
FM	FLOW METER	TFA	TO FLOOR ABOVE
FOO	FUEL OIL OVERFLOW	TFB	TO FLOOR BELOW
FOR	FUEL OIL RETURN	TG	TRANSFER GRILLE
FOS	FUEL OIL SUPPLY	TO	TEST OPENINGS
FOV	FUEL OIL VENT	TS	TIP SPEED
FPC	FIRE PROTECTION CONTRACTOR	TYP	TYPICAL
FS	FEET PER MINUTE	UH	UNIT HEATER
FS	FLOW SWITCH	UST	UNDERGROUND STORAGE TANK
FT	FOOT OR FEET	UV	UNIT VENTILATOR
G	GAS	UNEX	UNEXCAVATED
GA	GAUGE	V	VENT
GAL	GALLON	VAC	VACUUM
GALV	GALVANIZED	VAV	VARIABLE AIR VOLUME
GC	GENERAL CONTRACTOR	VB	VACUUM BREAKER
GLYR	GLYCOL RETURN	VD	VOLUME DAMPER
GLYS	GLYCOL SUPPLY	VDT	VERTICAL DRAW THRU
GRH	GAS FIRED RADIANT HEAT	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VERT	VERTICAL
GJH	GAS FIRED UNIT HEATER	VFD	VARIABLE FREQUENCY DRIVE
GV	GAS VENT	VSC	VARIABLE SPEED CONTROL
H	HUMIDIFIER	W TO W	WALL TO WALL
HB	HOSE BIB	WB	WET BULB
HC	HEATING CONTRACTOR	WC	WATER COLUMN
HCR	HOT/CHILLED WATER RETURN	WF	WALL FIN
HCS	HOT/CHILLED WATER SUPPLY	WP	WEATHER PROOF
HD	HORIZONTAL DRAW THRU	WPD	WATER PRESSURE DROP
HDT	HORIZONTAL DRAW THRU	YH	YARD HYDRANT
HG	MERCURY		
HGT	HEIGHT		
HP	HORSEPOWER		
HPC	HIGH PRESSURE CONDENSATE		
HPS	HIGH PRESSURE STEAM		
HPU	HEAT PUMP UNIT		
HPWR	HEAT PUMP WATER RETURN		
HPWS	HEAT PUMP WATER SUPPLY		
HR	HOUR		

DUCTWORK SYSTEMS

	DUCT SIZE, (FIRST FIGURE IS SIDE SHOWN)
	ROUND DUCT
	OVAL DUCT
	CHANGE OF ELEVATION IN DIRECTION OF AIR FLOW
	ACCESS DOOR, VERTICAL OR HORIZONTAL
	ACOUSTICAL DUCT LINER
	FLEXIBLE CONNECTION
	DUCT TRANSITION (DOUBLE LINE)
	DUCT TRANSITION (RECT. TO ROUND)
	DUCT TRANSITION (SINGLE LINE)
	HIDDEN DUCTWORK
	BACK DRAFT DAMPER
	MOTOR OPERATED DAMPER
	MANUAL VOLUME DAMPER
	SMOKE DETECTOR
	SMOKE DAMPER
	FIRE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	STANDARD BRANCH, SUPPLY, RETURN, OR EXHAUST, NO SPLITTER
	ROOF VENTILATOR OR HOOD ON ROOF ABOVE
	DUCT CAP
	END OF DUCT
	POSITIVE PRESSURE DUCT SECTION
	POSITIVE PRESSURE DUCT (DOWN OR AWAY)
	NEGATIVE PRESSURE DUCT SECTION
	NEGATIVE PRESSURE DUCT (DOWN OR AWAY)
	FLEXIBLE DUCT DIFFUSER CONNECTION
	SIDEWALL AIR DEVICE
	EXHAUST, RETURN, OR TRANSFER AIR DEVICE
	SUPPLY AIR DEVICE
	LOUVER AND BIRD SCREEN
	DOOR GRILLE
	34" DOOR CUTOFF (UNDERCUT) BY GC
	ELBOW WITH TURNING VANES
	UNIT HEATER
	CENTRIFUGAL FAN
	AIR FLOW
	POINT OF NEW CONNECTION (PIPE OR DUCT)
	SQUARE FEET
	ELEVATION SYMBOL

FAN SCHEDULE

SF = SUPPLY FAN	EF = EXHAUST FAN	CF = CEILING (DESTRATIFICATION) FAN	REF = ROOF EXHAUST FAN	
RF = RETURN FAN	TF = TRANSFER FAN	CEF = CEILING EXHAUST FAN		
UNIT NO.	EF-10 (EXIST)	EF-13 (EXIST)	EF-14 (EXIST)	EF-17 (EXIST)
LOCATION	205	226	259	238
MANUFACTURER	AMERICAN STANDARD	AMERICAN STANDARD	AMERICAN STANDARD	AMERICAN STANDARD
MODEL NO.	200	163	165	182
SERVICE	TOILET	TOILET	TOILET	TOILET
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
ARRANGEMENT	-	-	-	-
DESIGN CFM	7,400	2,550	3,200	6,200
EXT. SP. (IN WC)	1.25	1.00	1.00	1.25
FAN WHEEL TYPE	-	-	-	-
FAN DIAMETER	-	-	-	-
APPROXIMATE FAN RPM	-	-	-	-
BHP	-	-	-	-
MOTOR HP	2.00	1.00	1.00	1.50
VOLTS/PHASE	208 / 3	208 / 3	208 / 3	208 / 3
DRIVE	BELT	BELT	BELT	BELT
TWO SPEED	NO	NO	NO	NO
VFD	NO	NO	NO	NO
REMARKS	1	1	1	1

KEYED NOTES  
1. FAN IS EXISTING AND SHOWN FOR REBALANCING PURPOSES ONLY. REBALANCE TO AIRFLOW INDICATED (NEW AIRFLOW MATCH ORIGINAL DESIGN AIRFLOWS. PROVIDE NEW SHEAVE AND BELTS AS REQUIRED.

AIR DEVICE SCHEDULE

EG-1	UNIT NUMBER	SG = SUPPLY GRILLE
XXXXX	NECK SIZE	TG = TRANSFER GRILLE
300	CFM	EG = EXHAUST GRILLE
UNIT NO.	EG-1	
SERVICE	TOILET EX	
MANUFACTURER	PRICE	
MODEL NO.	630	
FACE STYLE	LOUVERED	
PATTERN	45°	
FINISH	PRIMED	
MATERIAL	ALUM	
SIZE (FACE/NECK)	SEE PLAN	
CFM RANGE	SEE PLAN	
MOUNTING	SURFACE	
DAMPER	NO	
REMARKS		

GENERAL NOTES:  
1. CONTRACTOR SHALL VERIFY MOUNTING SURFACE / FRAME REQUIREMENTS PRIOR TO PROCURING OR ORDERING EQUIPMENT.  
2. AIR DEVICE MUST FIT EXISTING DUCT/NECK SIZE WITH FLANGES CONCEALING EXISTING PENETRATION COMPLETE.  
3. SEE SPECIFICATION FOR GRILLE, REGISTER, AND DIFFUSER FINISHES.  
4. MAXIMUM STATIC PRESSURE DROP THROUGH GRILLE, REGISTER OR DIFFUSER SHALL NOT EXCEED 0.1".  
5. MAXIMUM NC LEVELS FOR GRILLES, REGISTERS OR DIFFUSERS SHALL NOT EXCEED 25.  
6. GRILLES SHALL BE PRIMED FINISH AND FIELD PAINTED. COORDIANTE WITH ARCHITECTURAL PLANS FOR FINAL COLOR

EF-14 - AIR BALANCE SCHEDULE

UNIT NO.	EF-14 (EXIST)	REMARK
ROOM AIRFLOWS		
203 - MENS RESTROOM	700	
JANITOR CLOSET (ADJ TO 203)	250	(1)
ARENA - TOILET	50	(1)(2)
MAIN CONCOURSE - TOILET	100	(1)(2)
324 - WOMENS RESTROOM	300	
JANITOR CLOSET (ADJ TO 324)	300	(1)
325 - MENS RESTROOM	300	
332 - WOMENS RESTROOM	680	
335 - MENS RESTROOM	520	

REMARKS  
1. SPACE NOT INCLUDED IN RENOVATION AND WILL BE REBALANCED ONLY.  
2. SEE M001 FOR ROOM LOCATION.

EF-17 - AIR BALANCE SCHEDULE

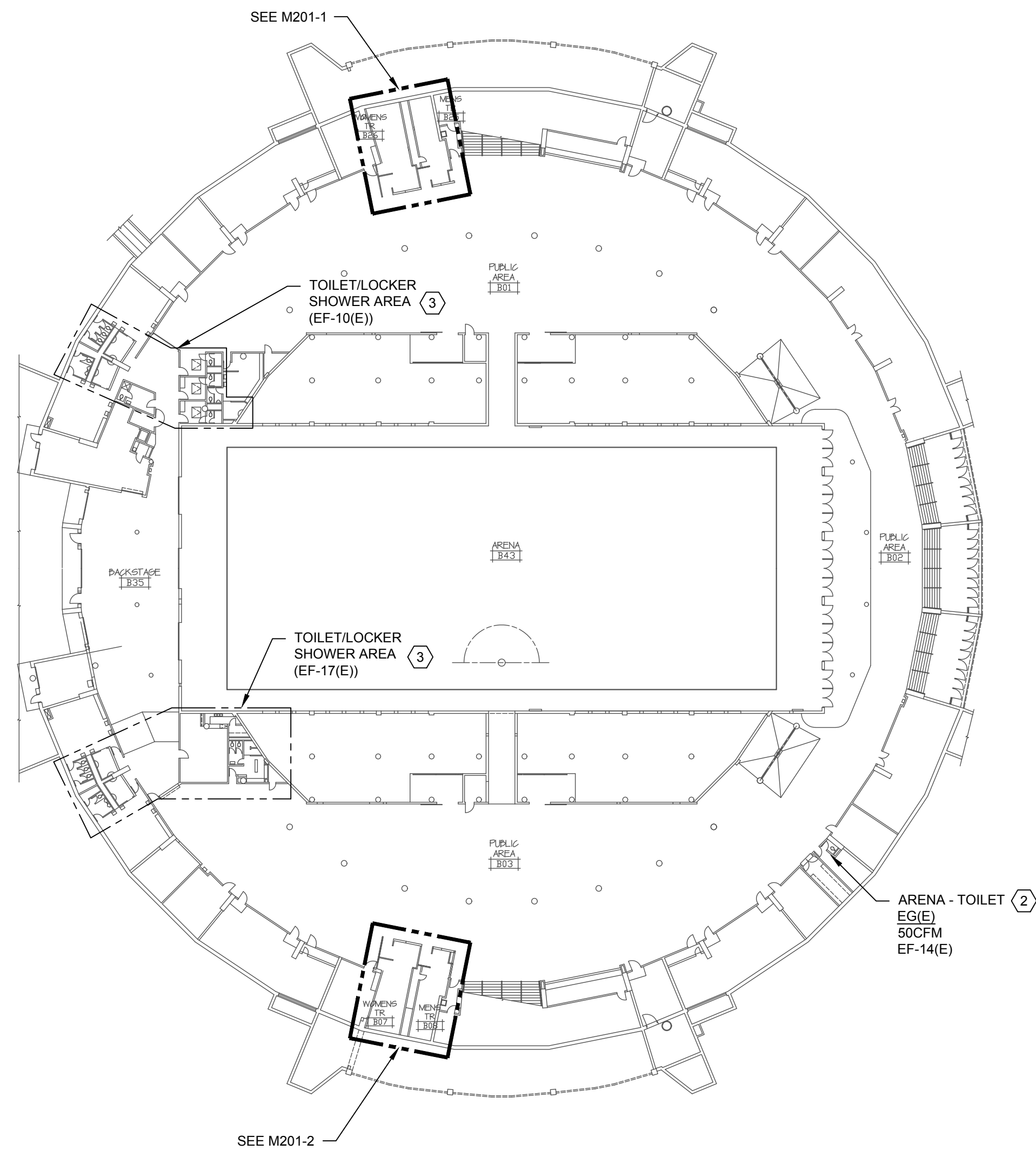
UNIT NO.	EF-17 (EXIST)	REMARK
ROOM AIRFLOWS		
AREA - DRESSING ROOM TOILET	300	(1)(2)
AREA - DRESSING ROOM SHOWER	300	(1)(2)
AREA - LOCKER ROOM SHOWER	450	(1)(2)
AREA - LOCKER ROOM TOILET	300	(1)(2)
AREA - LOCKER ROOM TOILET	150	(1)(2)
AREA - LOCKER ROOM SHOWER	450	(1)(2)
AREA - LOCKER ROOM TOILET	300	(1)(2)
AREA - LOCKER ROOM TOILET	150	(1)(2)
B07 - WOMENS RESTROOM	700	
B08 - MENS RESTROOM	600	
JANITOR CLOSET (ADJ TO B08)	200	(1)
202 - WOMENS RESTROOM	700	
315 - WOMENS RESTROOM	600	
JANITOR CLOSET (ADJ TO 315)	400	(1)
318 - MENS RESTROOM	680	

REMARKS  
1. SPACE NOT INCLUDED IN RENOVATION AND WILL BE REBALANCED ONLY.  
2. SEE M001 FOR ROOM LOCATION.

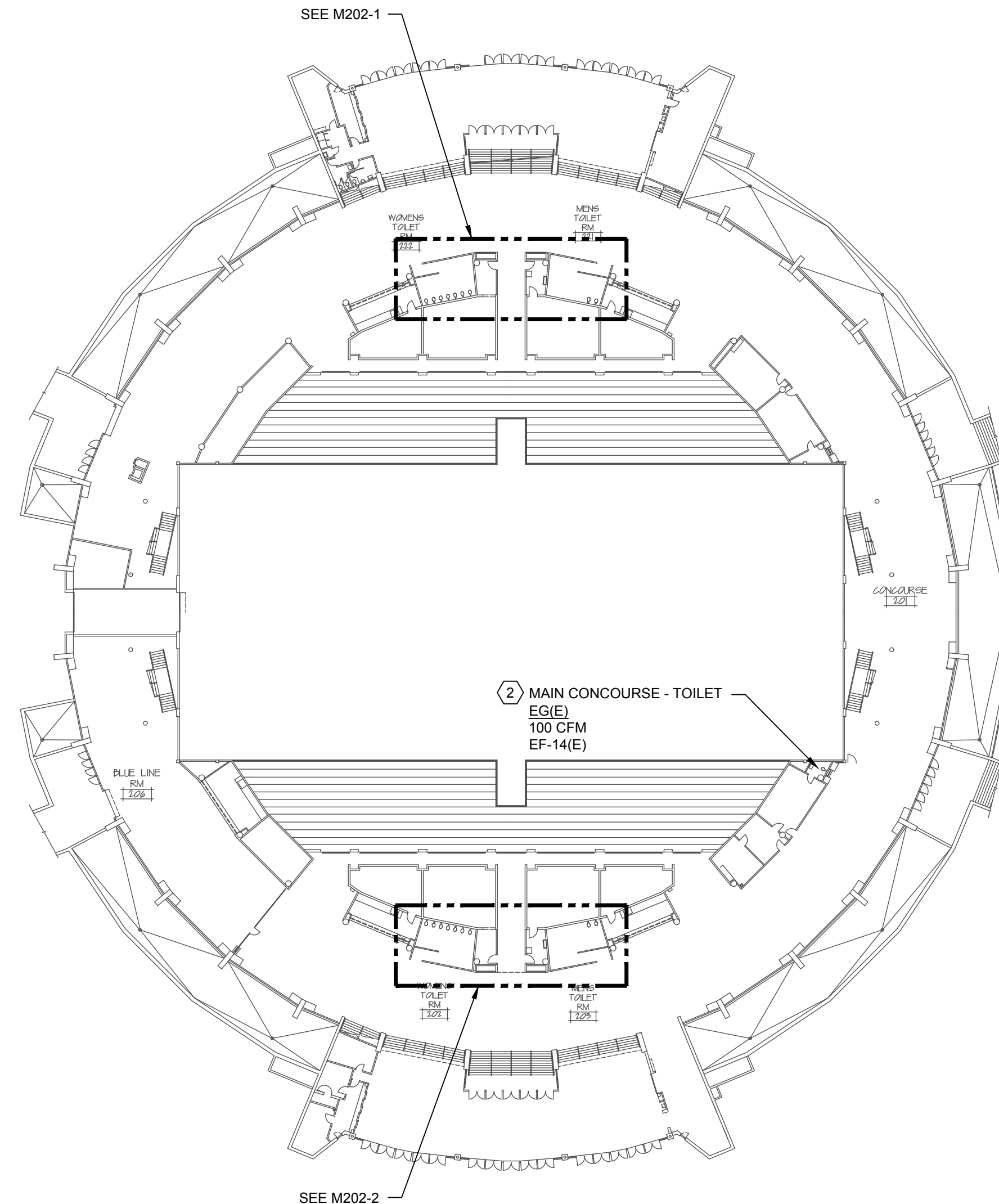
EF-10 - AIR BALANCE SCHEDULE

UNIT NO.	EF-10 (EXIST)	REMARK
ROOM AIRFLOWS		
AREA - DRESSING ROOM TOILET	150	(1)(2)
AREA - DRESSING ROOM TOILET	150	(1)(2)
AREA - DRESSING ROOM TOILET	150	(1)(2)
AREA - DRESSING ROOM TOILET	300	(1)(2)
AREA - DRESSING ROOM SHOWER	300	(1)(2)
AREA - DRESSING ROOM TOILET	150	(1)(2)
AREA - LOCKER ROOM SHOWER	450	(1)(2)
AREA - LOCKER ROOM TOILET	300	(1)(2)
AREA - LOCKER ROOM TOILET	150	(1)(2)</

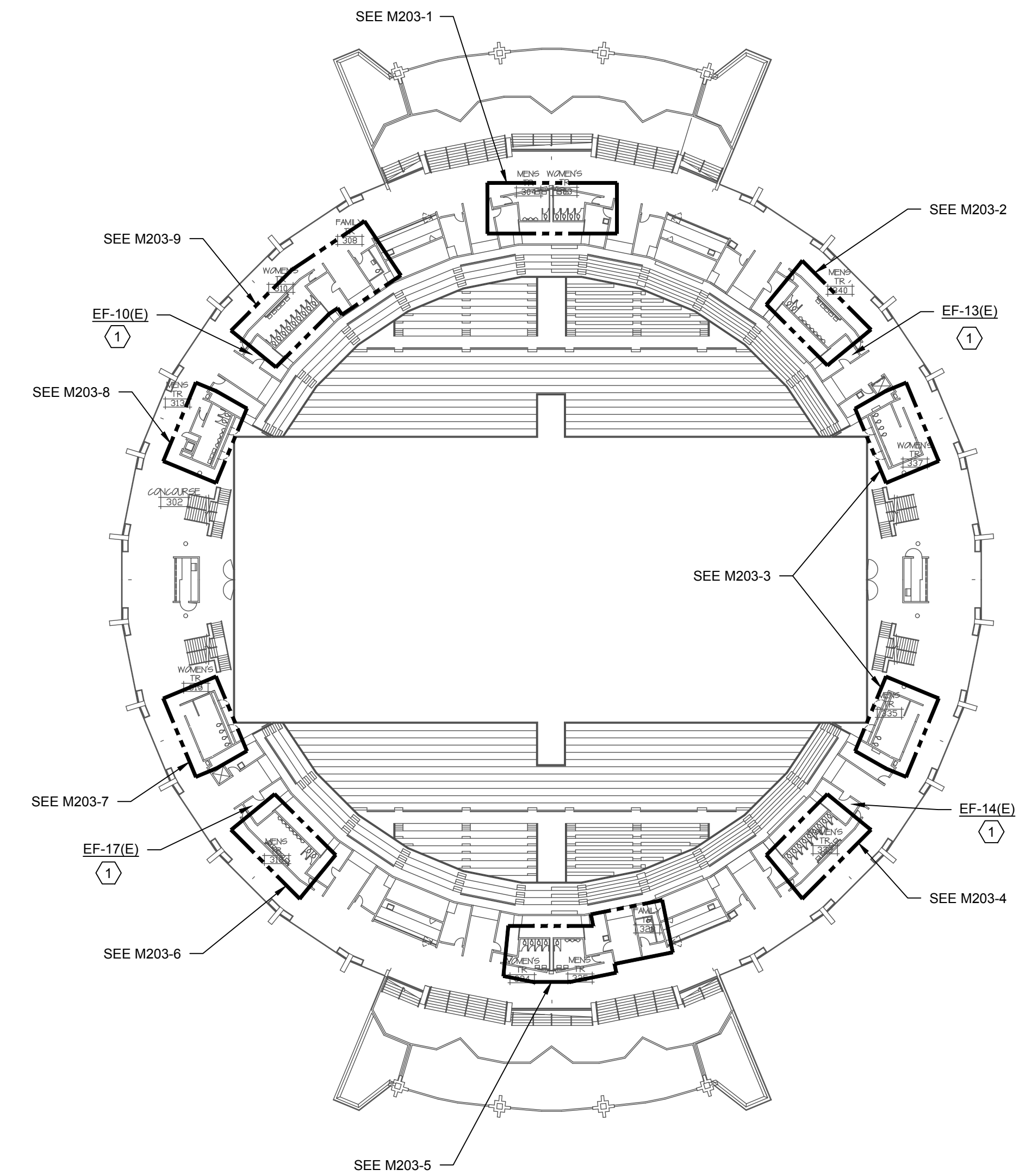
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**3** ARENA LEVEL AREA PLAN  
M001 SCALE: NONE  
NORTH

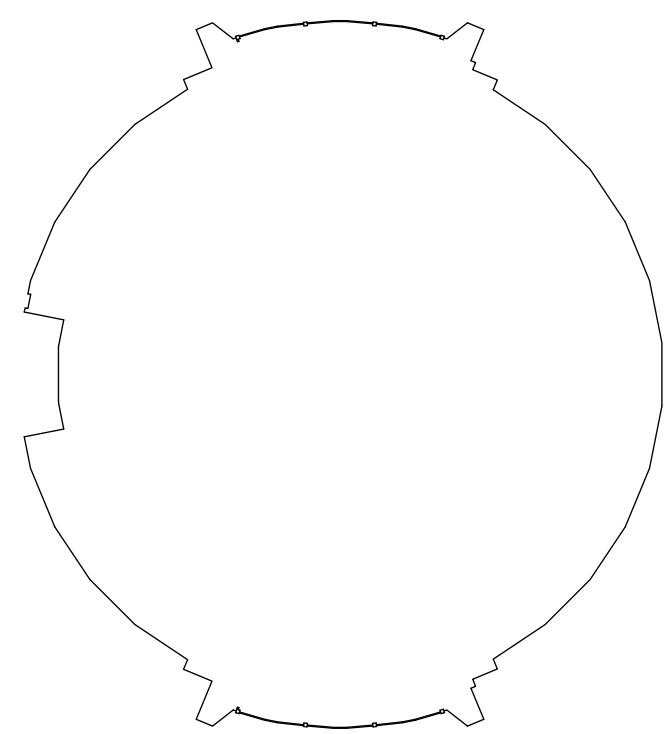


**2** MAIN CONCOURSE LEVEL AREA PLAN  
M001 SCALE: NONE  
NORTH



**1** SECOND LEVEL CONCOURSE AREA PLAN  
M001 SCALE: NONE  
NORTH

- KEYED NOTES
- (1) APPROXIMATE LOCATION OF EXISTING EXHAUST FAN.
  - (2) THIS ROOM IS NOT RENOVATED. SHOWN FOR AIR REBALANCING PURPOSES ONLY.
  - (3) THIS AREA IS NOT RENOVATED AND CONTAINS MULTIPLE TOILET ROOMS, SHOWERS AND LOCKER SPACE. SEE AIR BALANCE SCHEDULE FOR ADDITIONAL INFORMATION.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

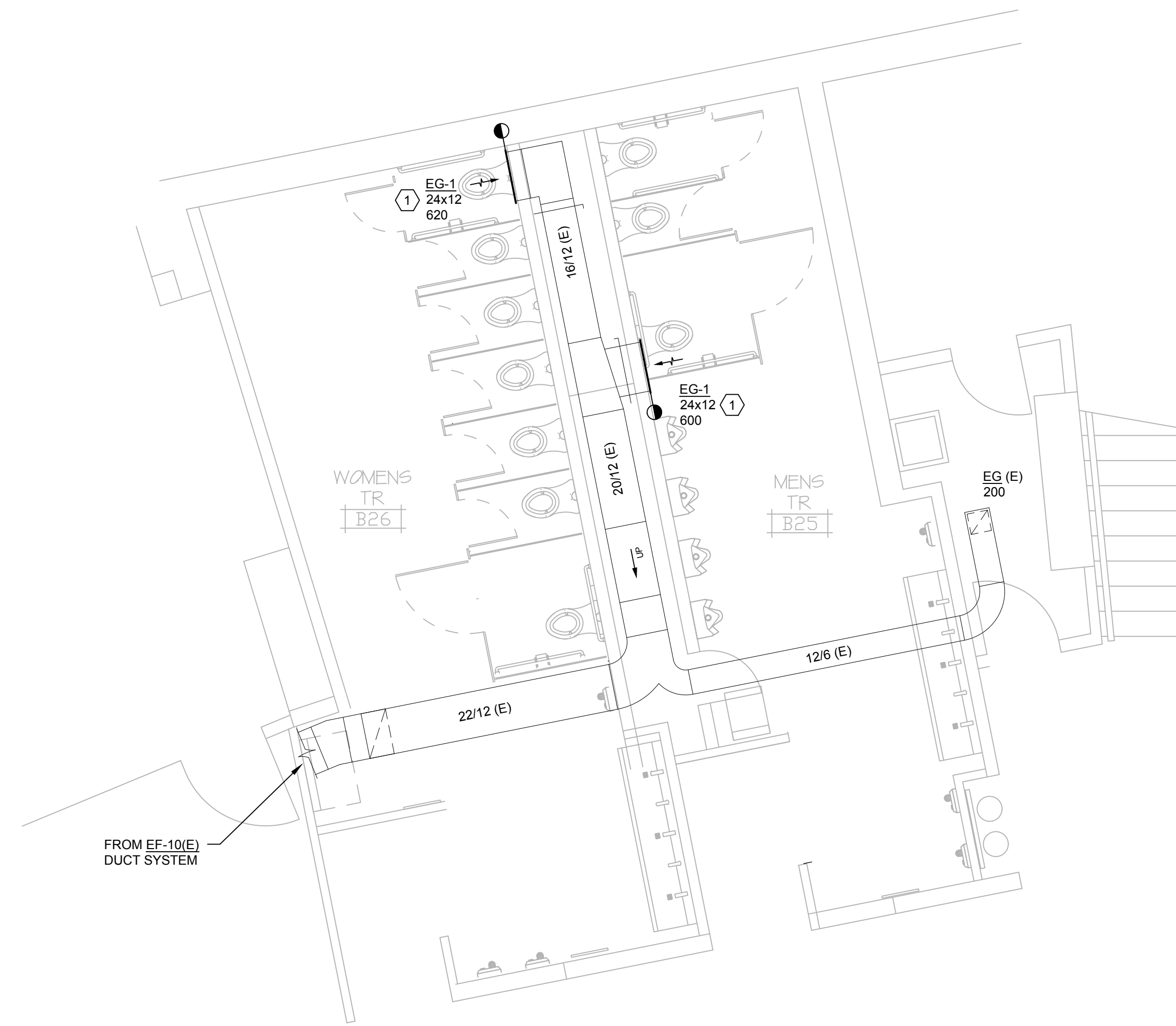
**DRAWING**  
AREA PLAN - HVAC

**DATE**  
03.28.17

**JDR**  
ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M001

ISSUED



2  
WOMENS B26 / MENS B25  
FIRST LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"

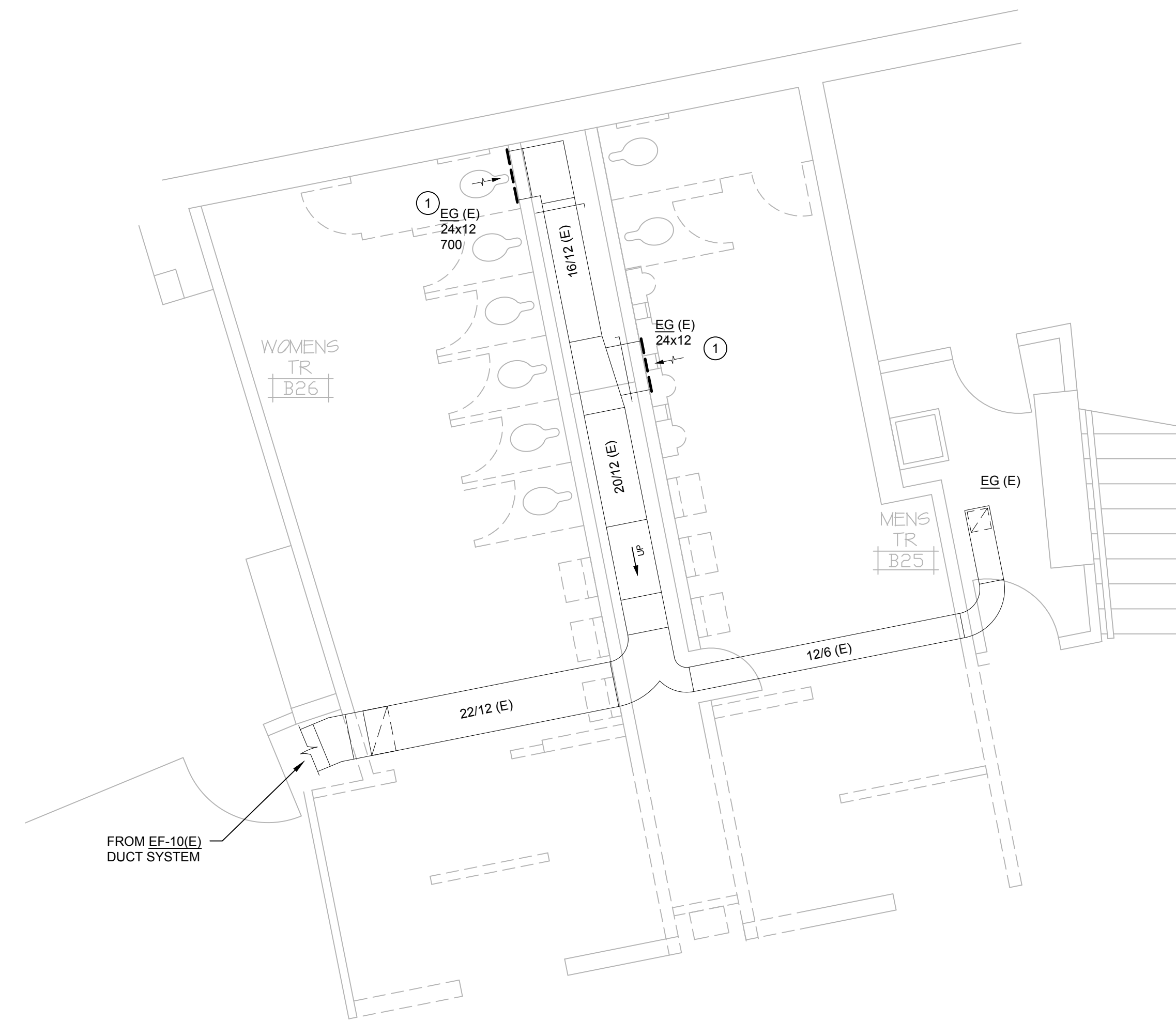


GENERAL NOTES:

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

NEW WORK KEYED NOTES:

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



1  
WOMENS B26 / MENS B25  
FIRST LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"

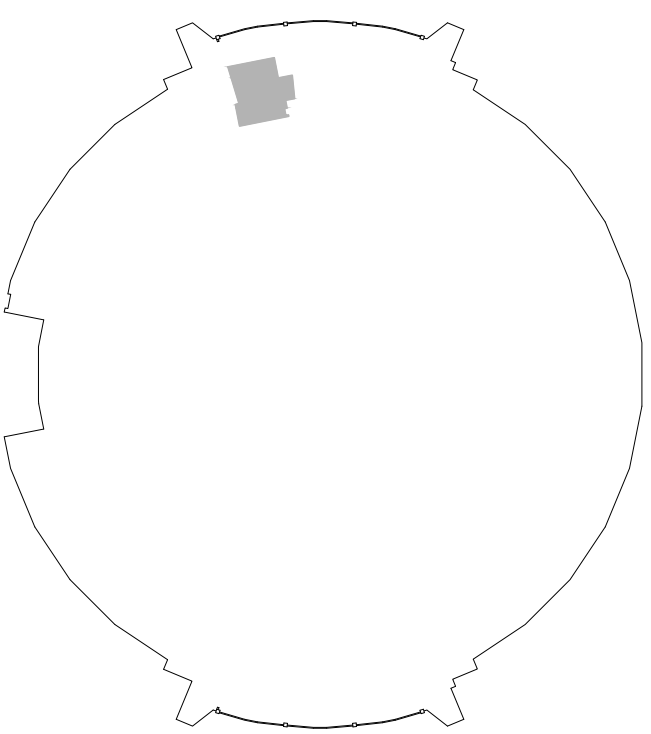


GENERAL NOTES:

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

DEMOLITION KEYED NOTES:

- CONTRACTOR SHALL DEMOLISH EXISTING WALL MOUNTED EXHAUST GRILLE.



KEY PLAN

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COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
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MADISON, WISCONSIN

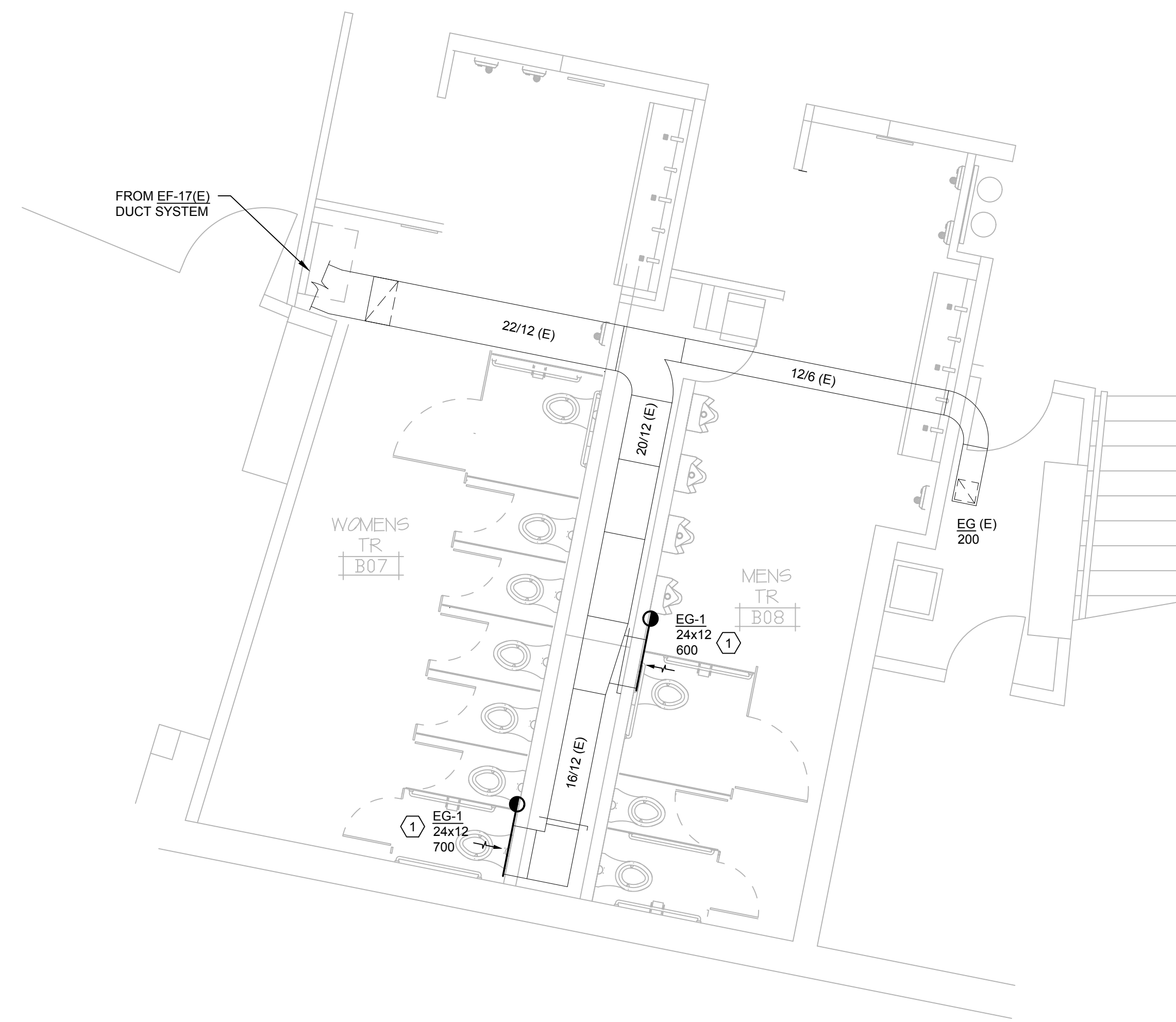
**DRAWING**  
FIRST LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M201-1

ISSUED



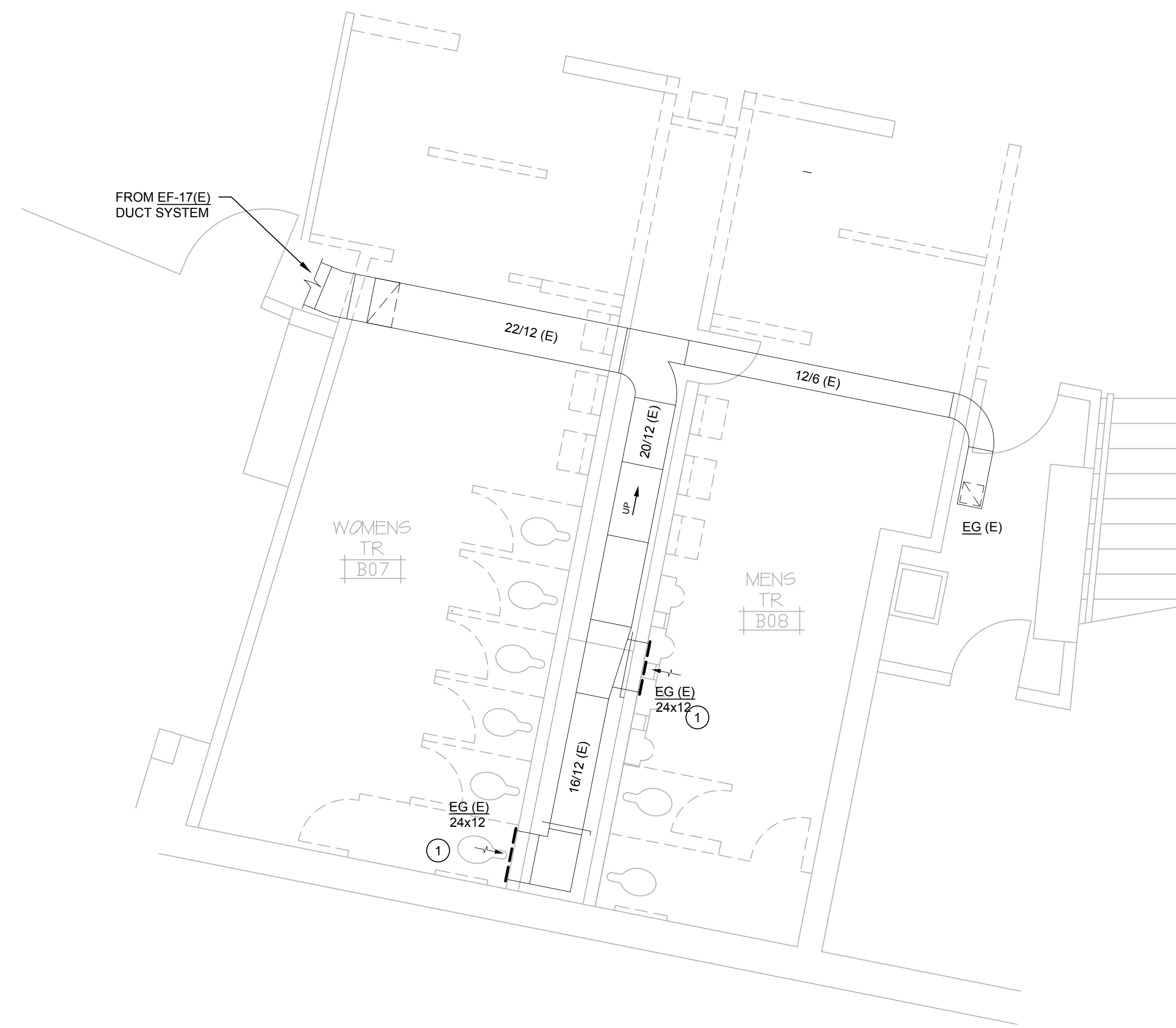
**2** WOMENS B07 / MENS B08  
FIRST LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
2. CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
3. CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN

**NEW WORK KEYED NOTES:**

- ① CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



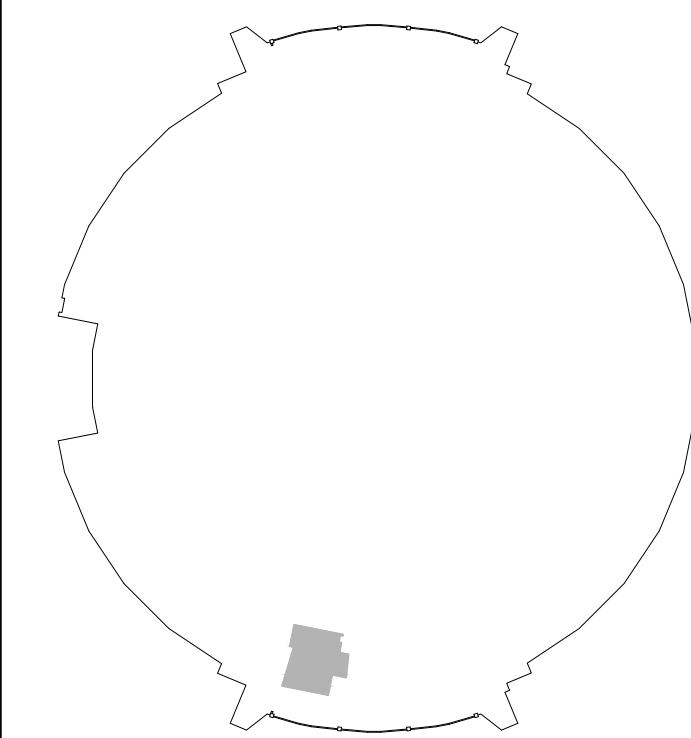
**1** WOMENS B07 / MENS B08  
FIRST LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- ① CONTRACTOR SHALL DEMOLISH EXISTING WALL MOUNTED EXHAUST GRILLE.



KEY PLAN

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COLISEUM RESTROOM  
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MADISON, WISCONSIN

**DRAWING**  
FIRST LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

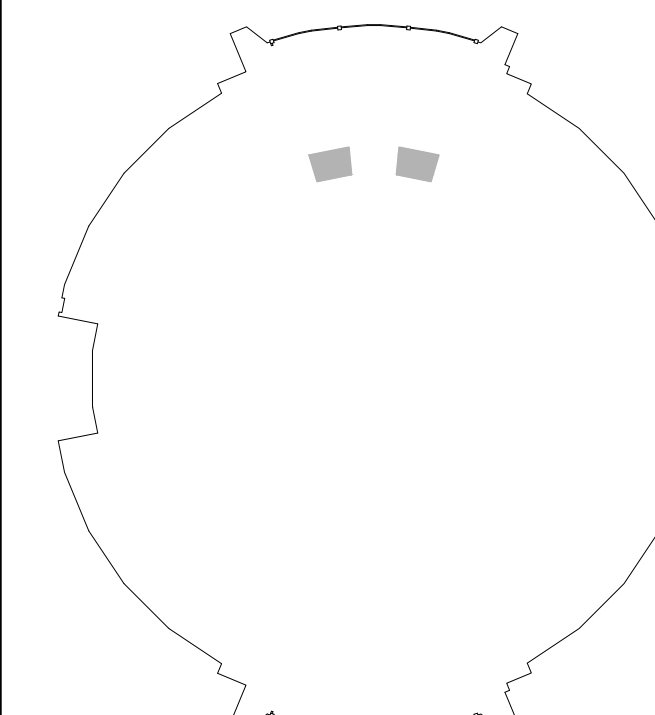
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
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PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M201-2

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
SECOND LEVEL  
CONCOURSE PLAN - HVAC

**DATE**  
03.28.17

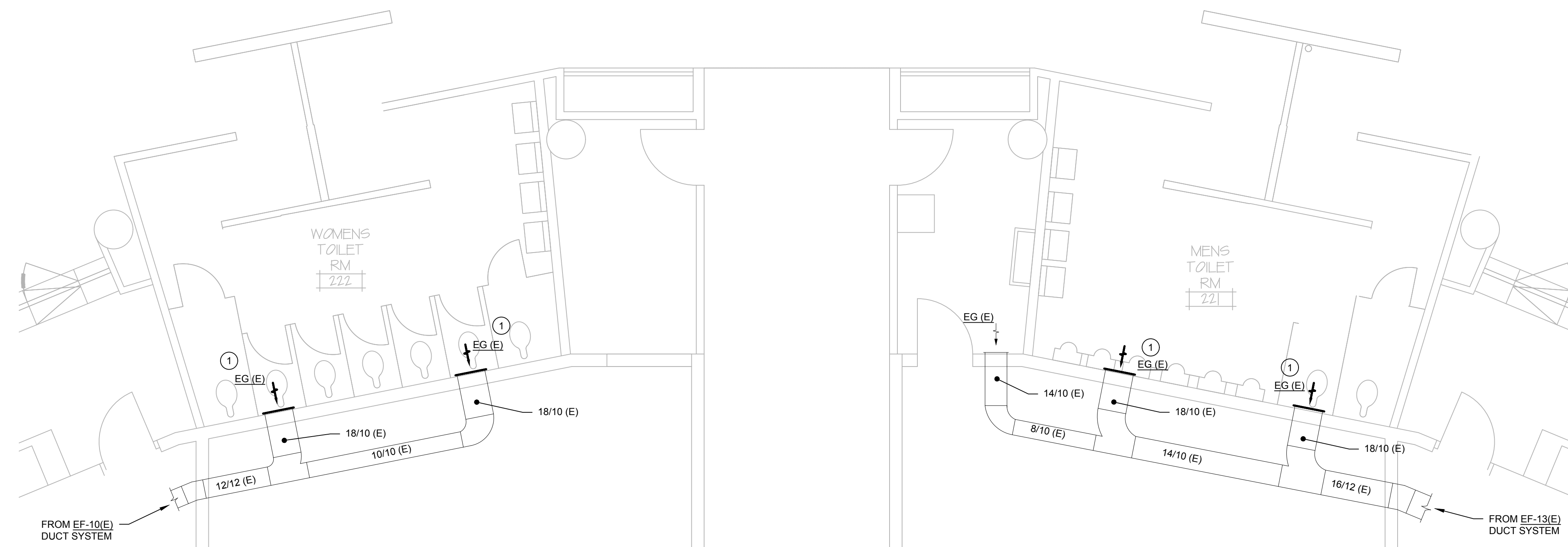
M202-1

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR SHALL DEMOLISH EXISTING WALL MOUNTED EXHAUST GRILLE.



**1**  
M202-1  
WOMENS 222 / MENS 221  
SECOND LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"

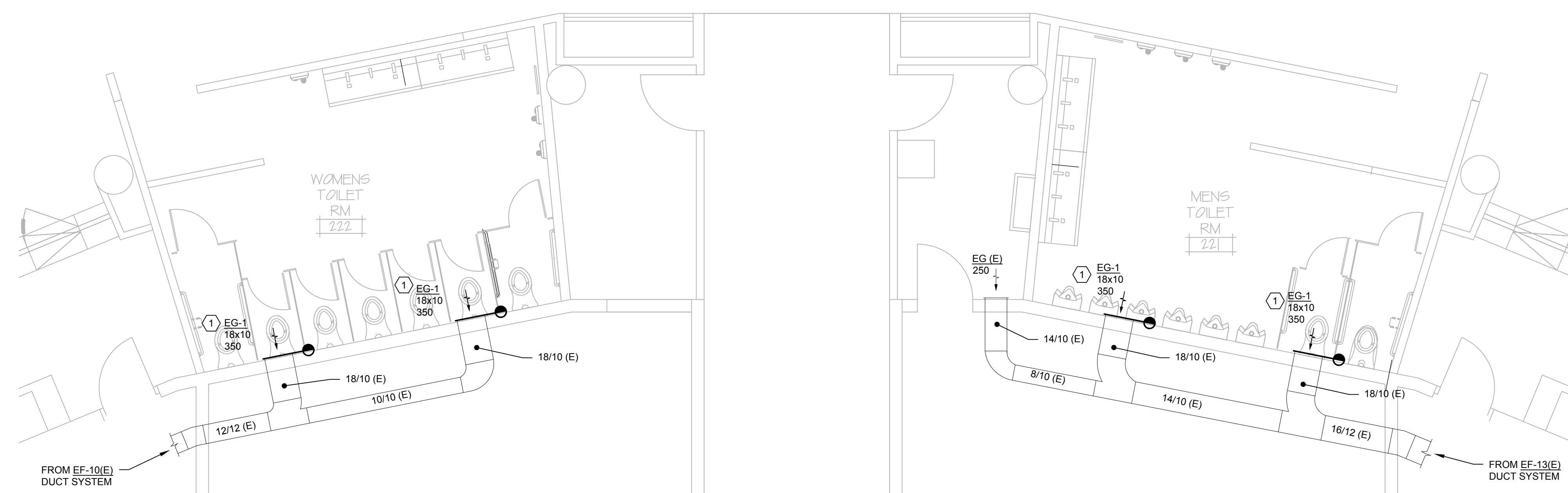


**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

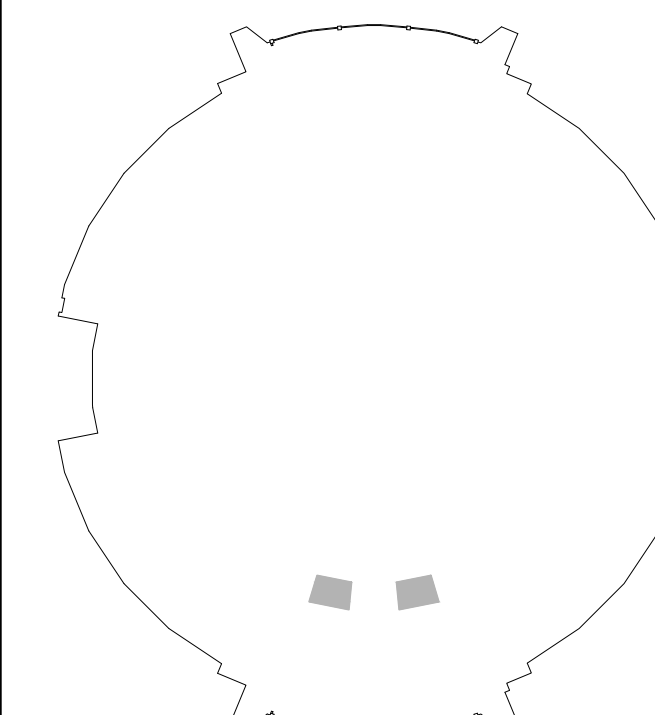
- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



**2**  
M202-1  
WOMENS 222 / MENS 221  
SECOND LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"



**JDR**  
ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007



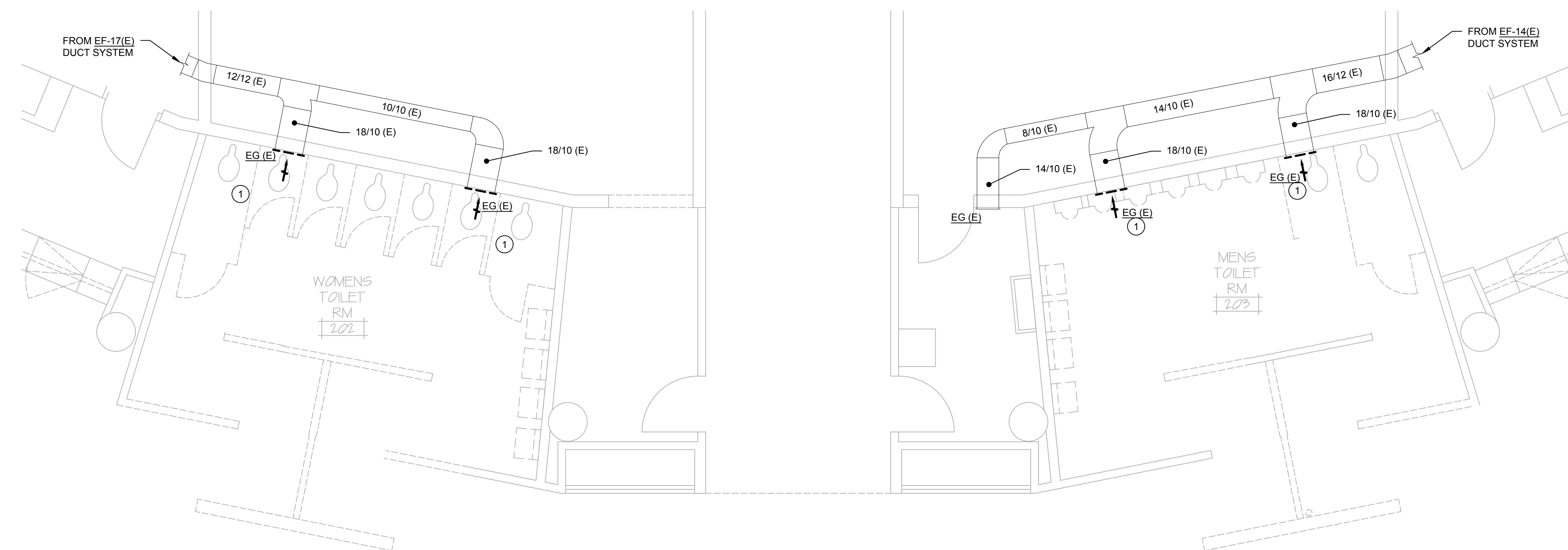
KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
SECOND LEVEL  
CONCOURSE PLAN - HVAC

**DATE**  
03.28.17

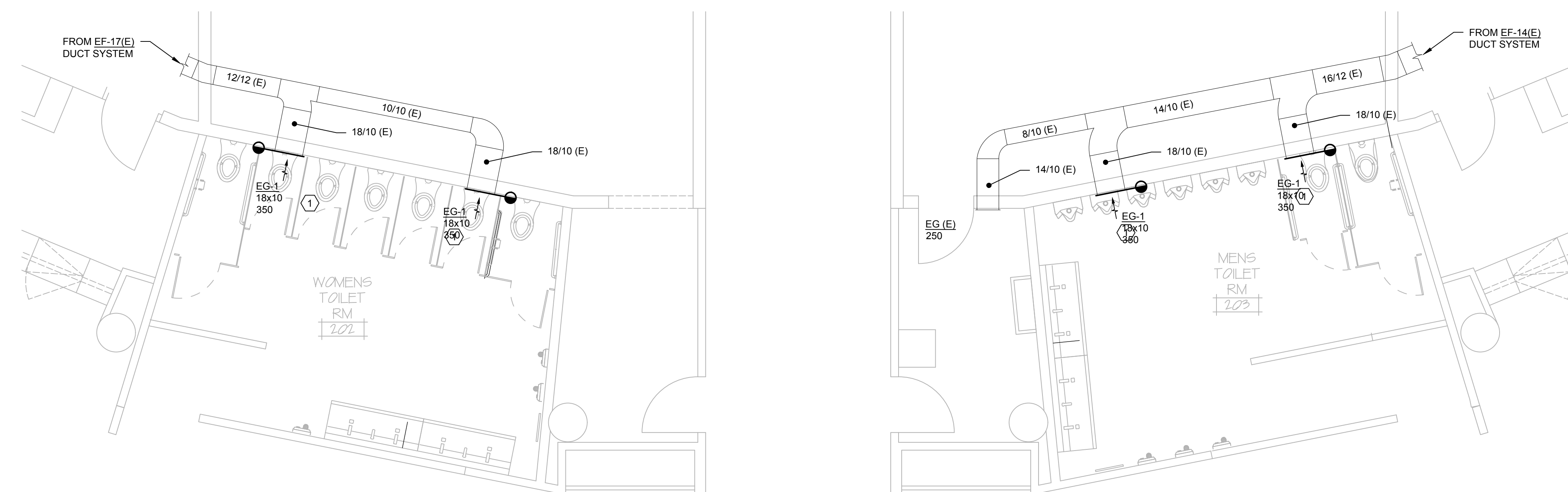
M202-2



1  
M202-1  
WOMENS 202 / MENS 203  
SECOND LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"



NORTH



2  
M202-1  
WOMENS 202 / MENS 203  
SECOND LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"



NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

1. CONTRACTOR SHALL DEMOLISH EXISTING WALL MOUNTED EXHAUST GRILLE.

**GENERAL NOTES:**

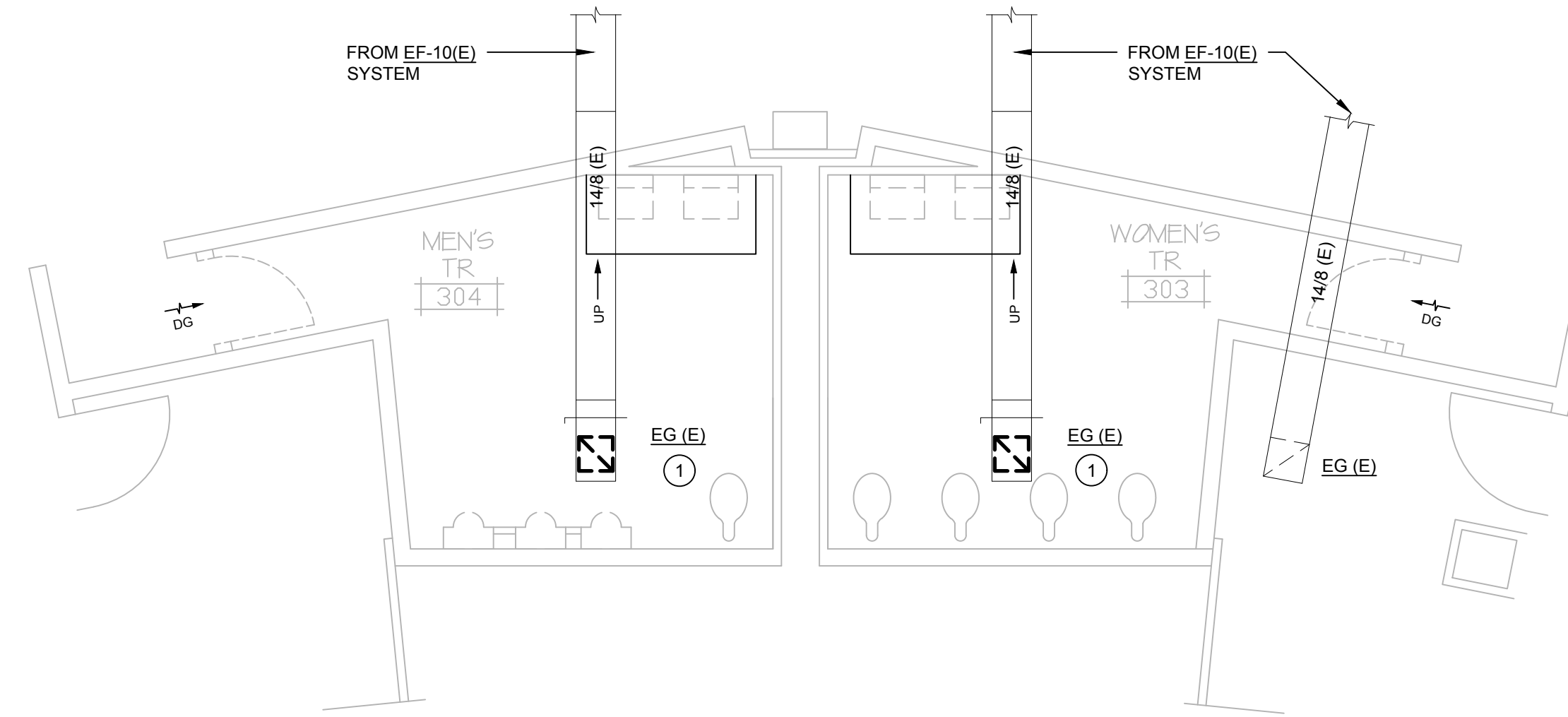
1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
2. CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
3. CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

1. CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.

**JDR**  
ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

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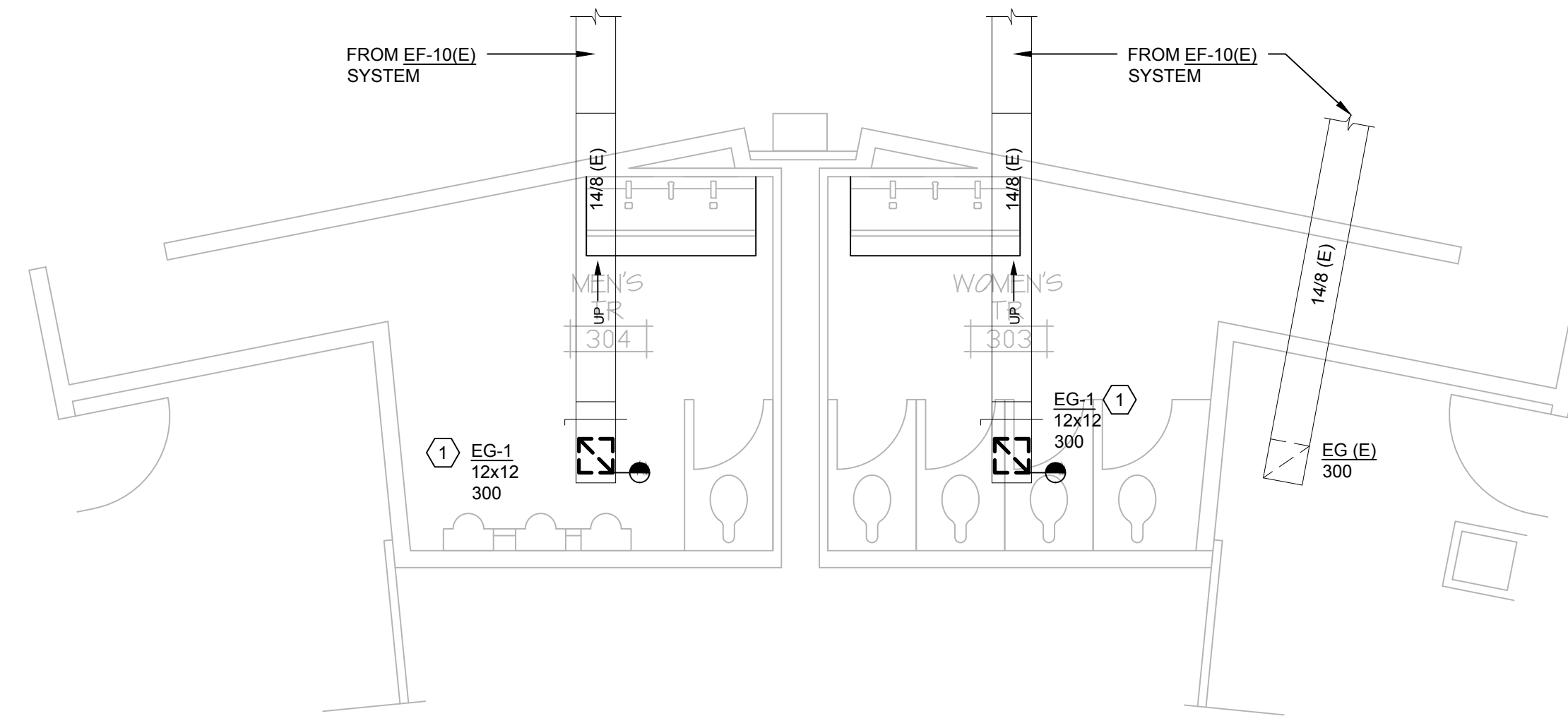
**1**  
M203-1  
SCALE: 1/4"=1'-0"  
**MENS 304 / WOMENS 303  
THIRD LEVEL DEMOLITION PLAN - HVAC**  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



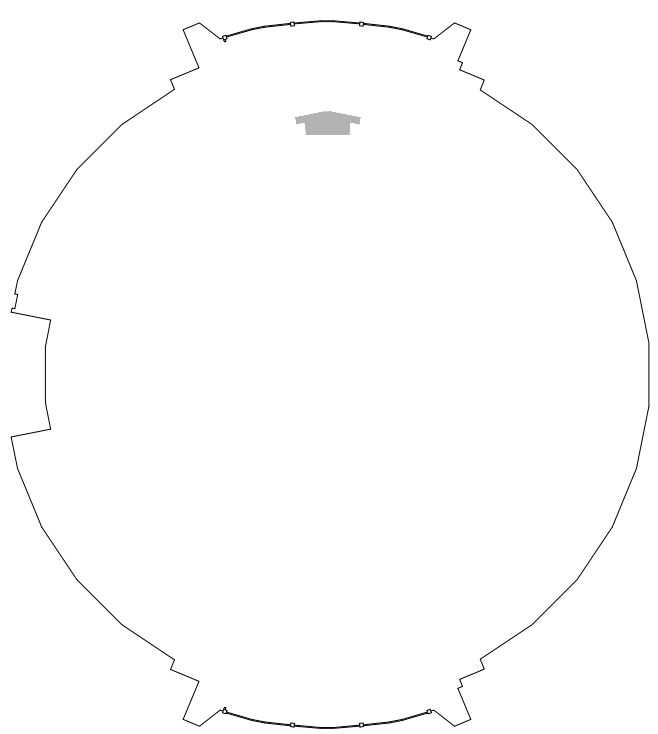
**2**  
M203-1  
SCALE: 1/4"=1'-0"  
**MENS 304 / WOMENS 303  
THIRD LEVEL NEW WORK PLAN - HVAC**  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

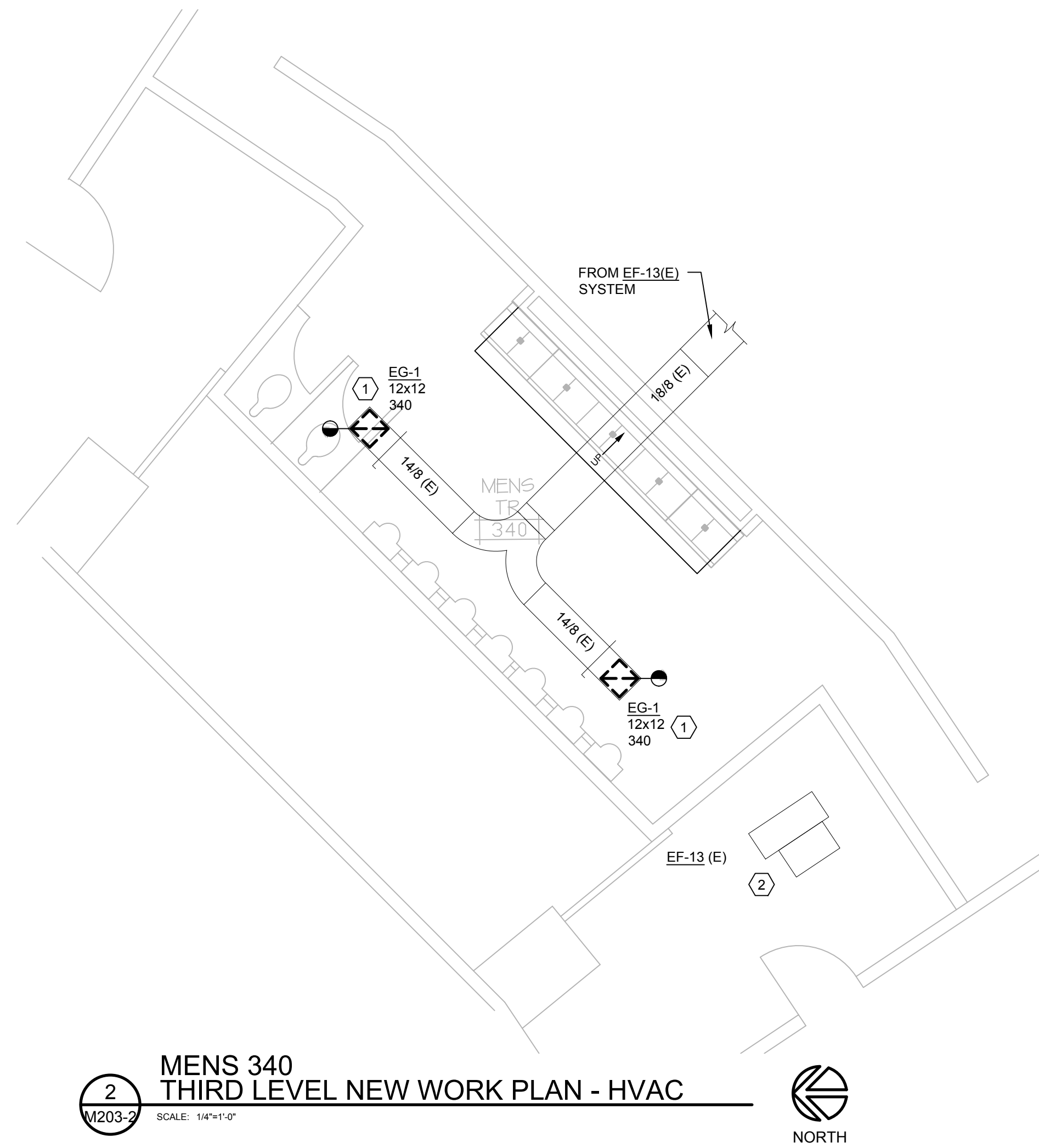
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M203-1

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



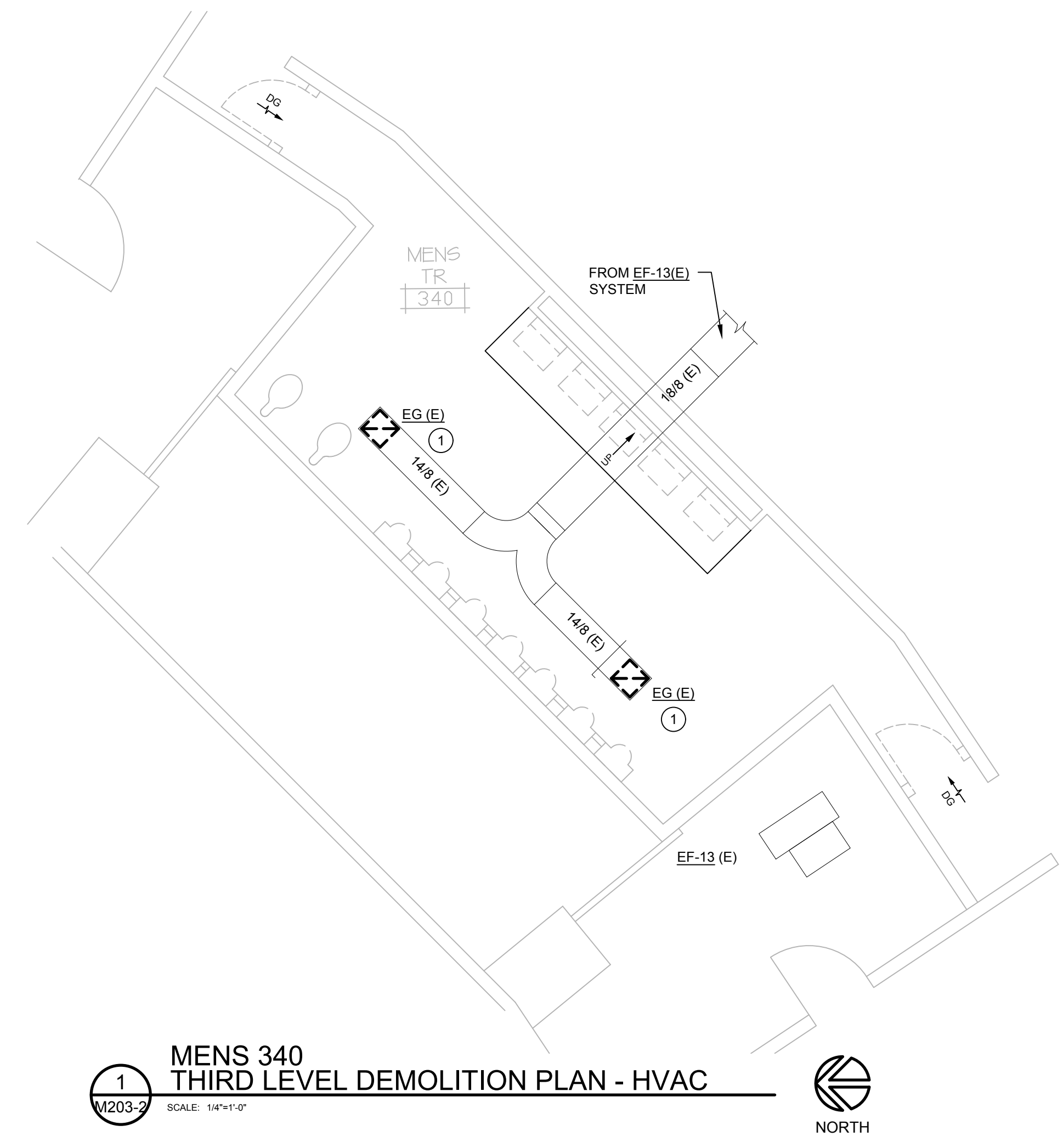
**2** MENS 340  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
2. CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
3. CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- ① CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.
- ② CONTRACTOR SHALL RE-BALANCE EXISTING TOILET EXHAUST FAN. REFER TO SCHEDULE AND SPECIFICATIONS FOR FURTHER DETAIL.



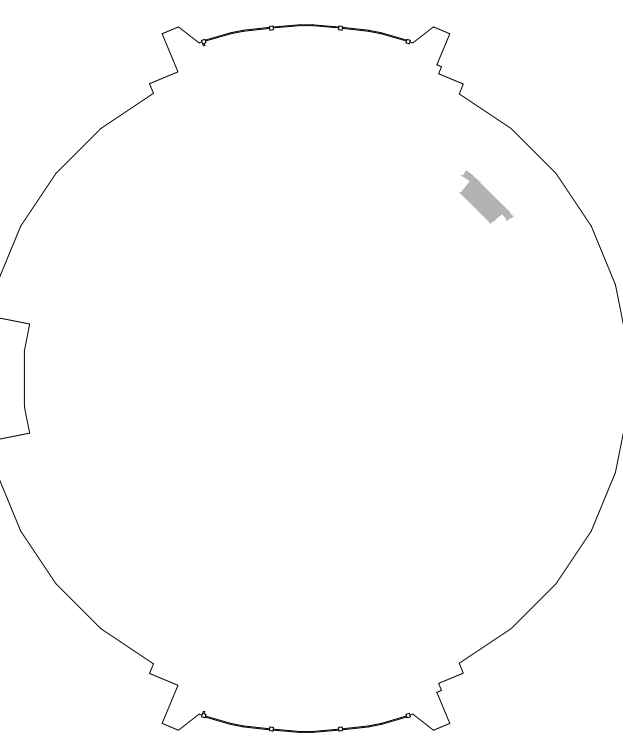
**1** MENS 340  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- ① CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

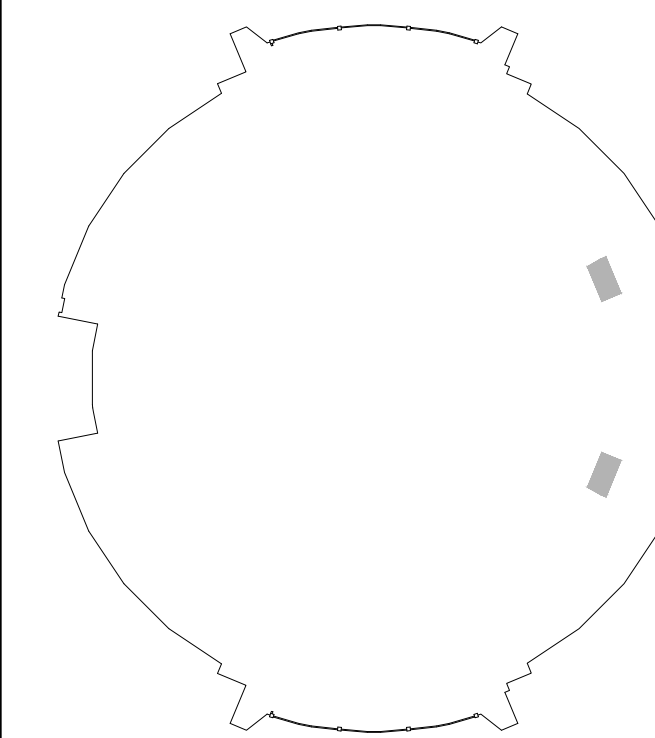
**DATE**  
03.28.17

**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M203-2



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KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

M203-3

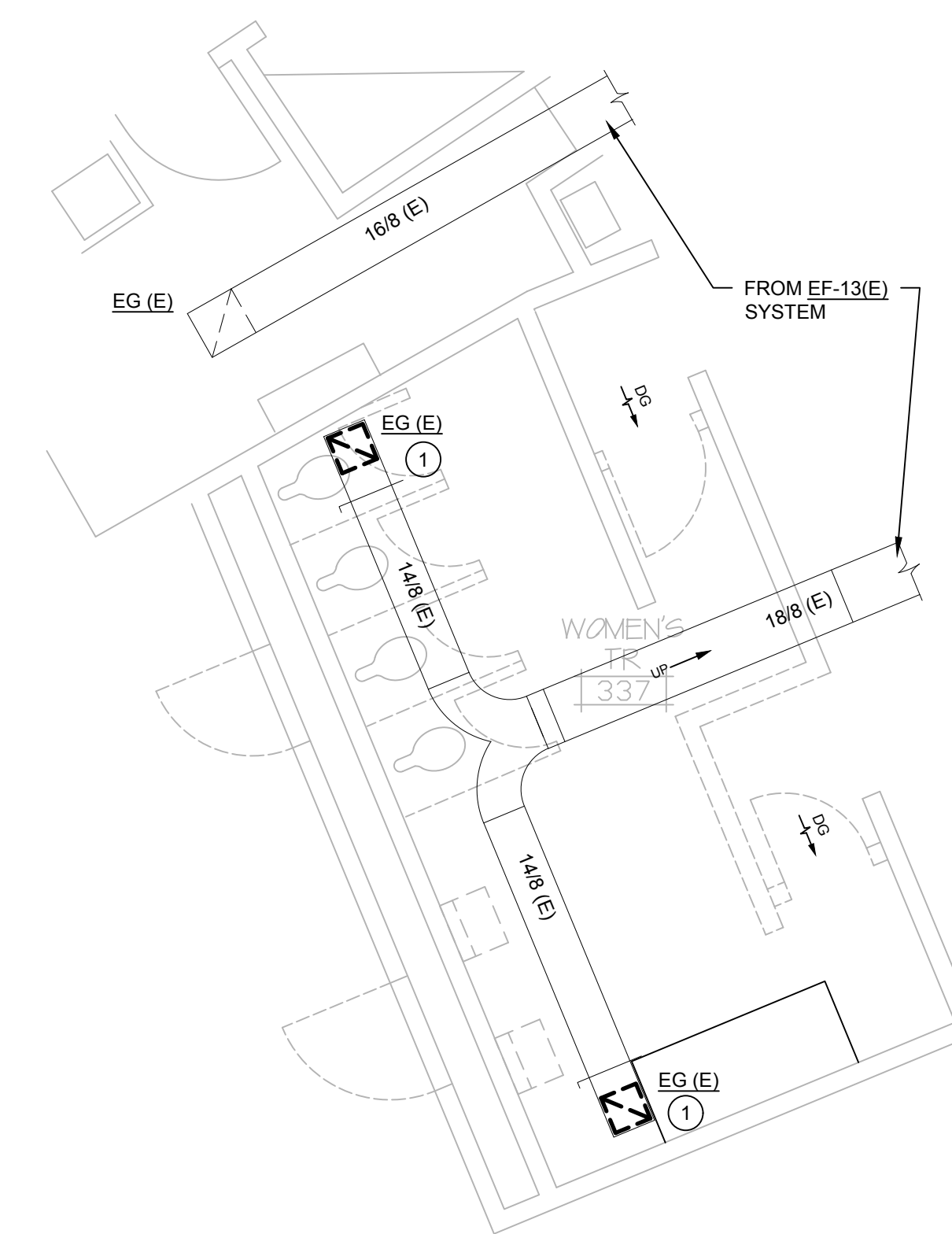
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



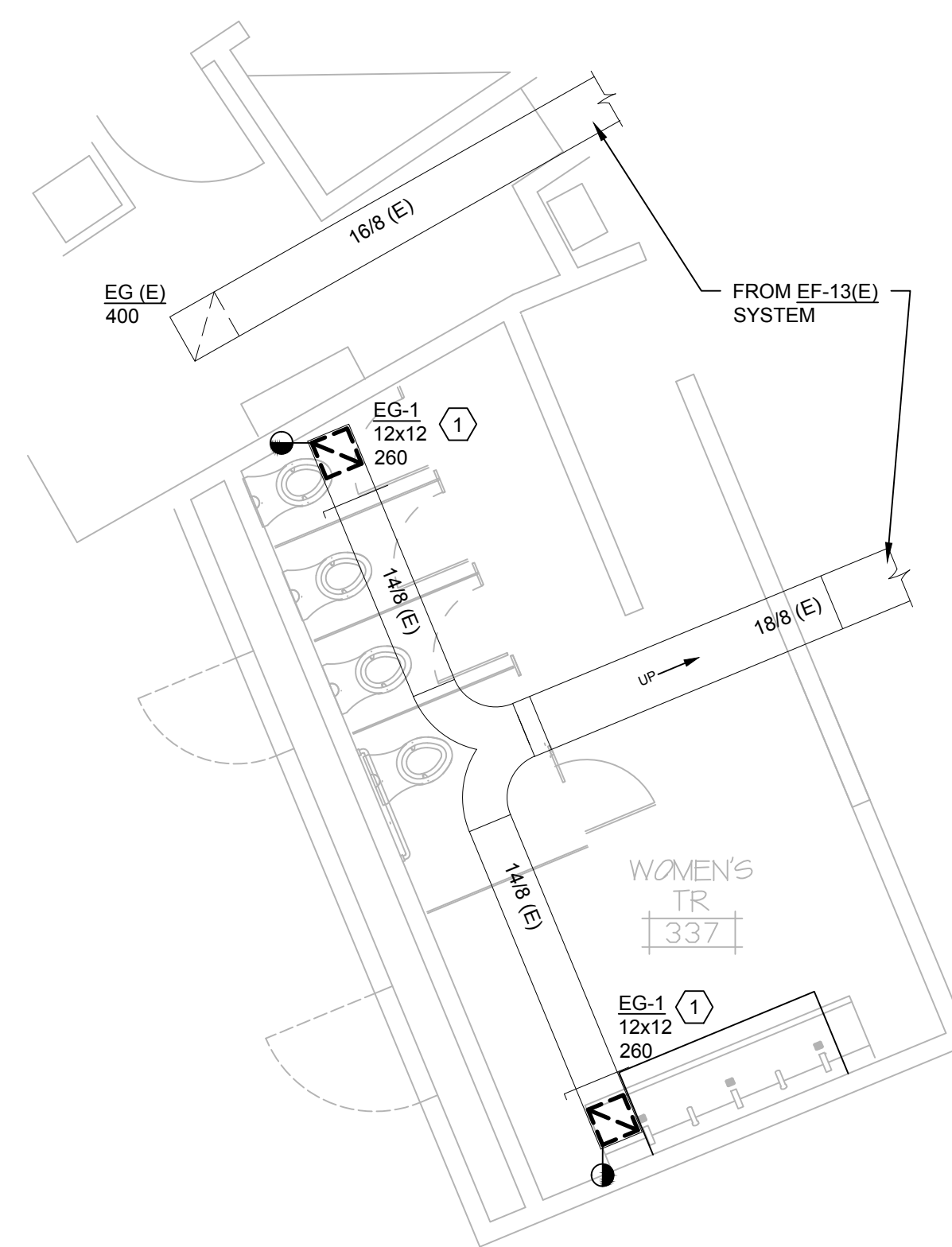
1 WOMENS 337  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"

**GENERAL NOTES:**

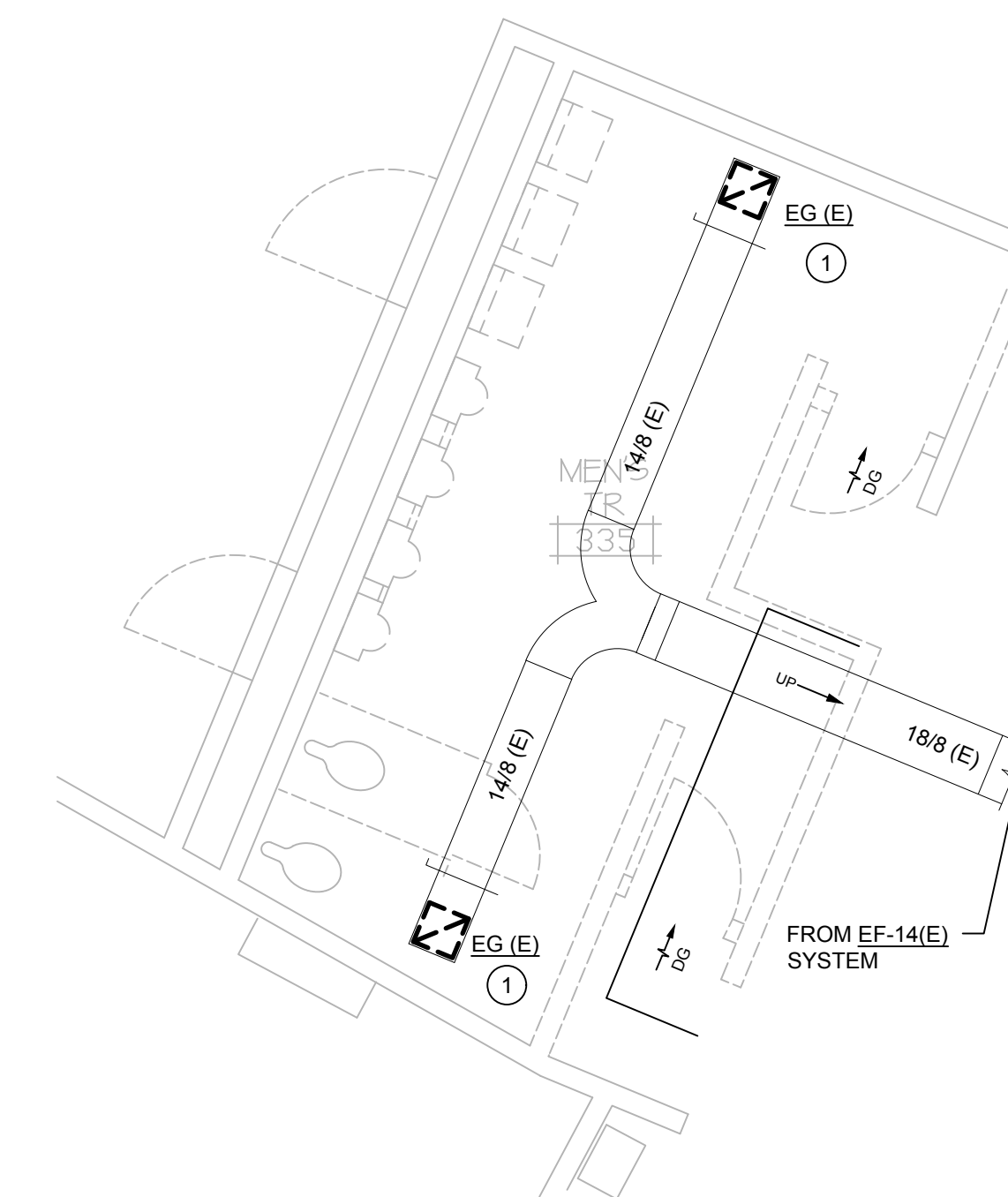
- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

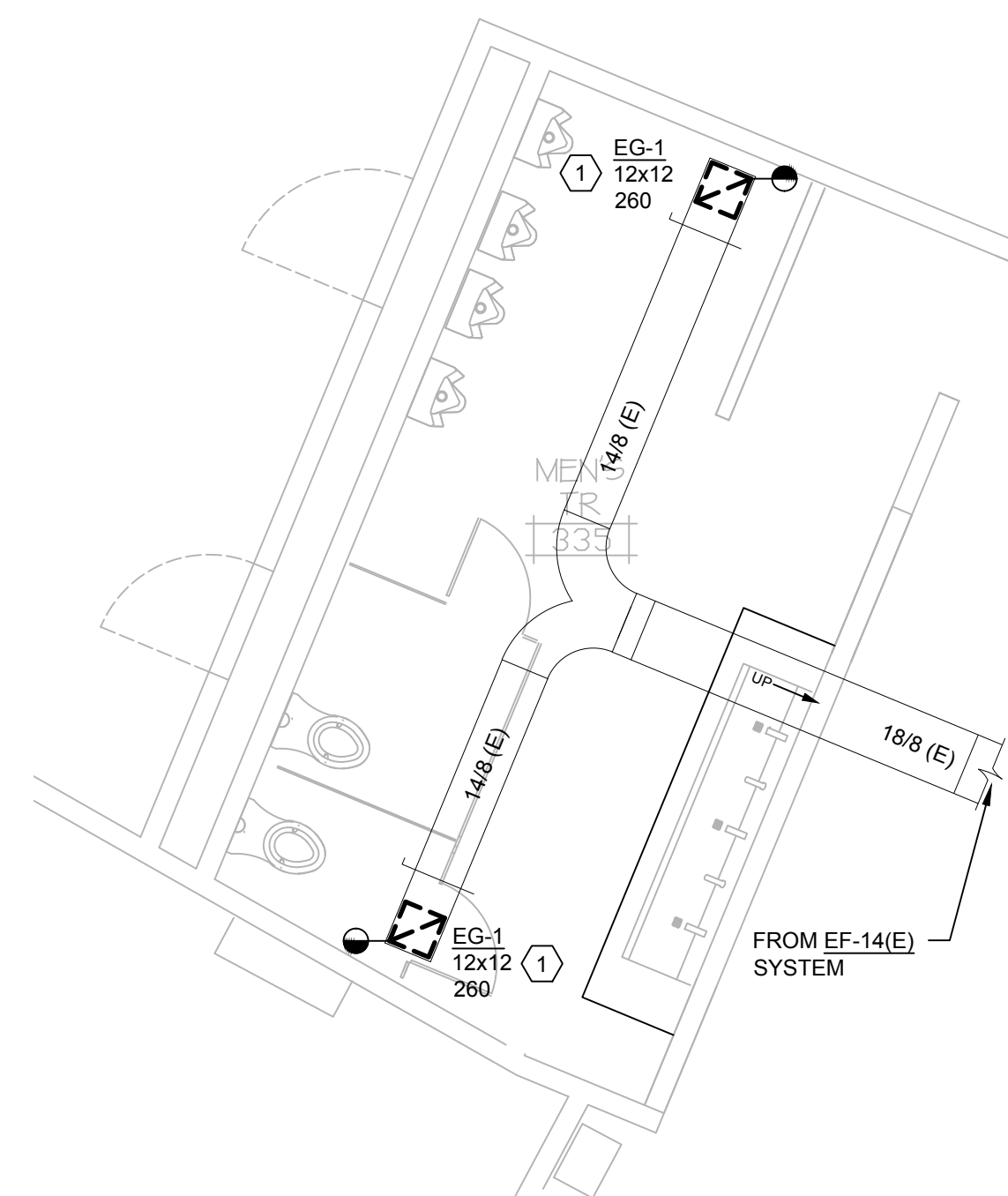
- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



2 WOMENS 337  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"



3 MENS 335  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"

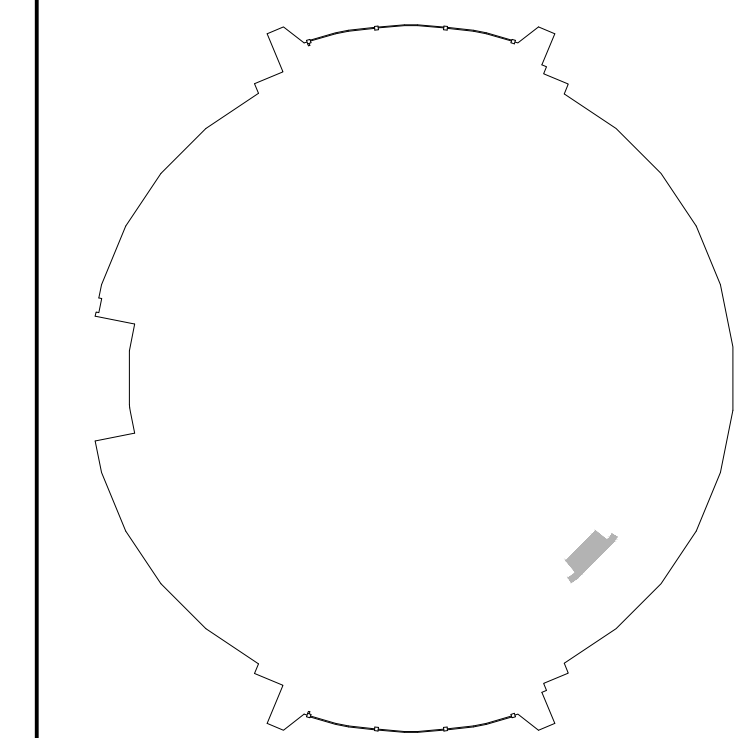


4 MENS 335  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

**ISSUED**



**KEY PLAN**

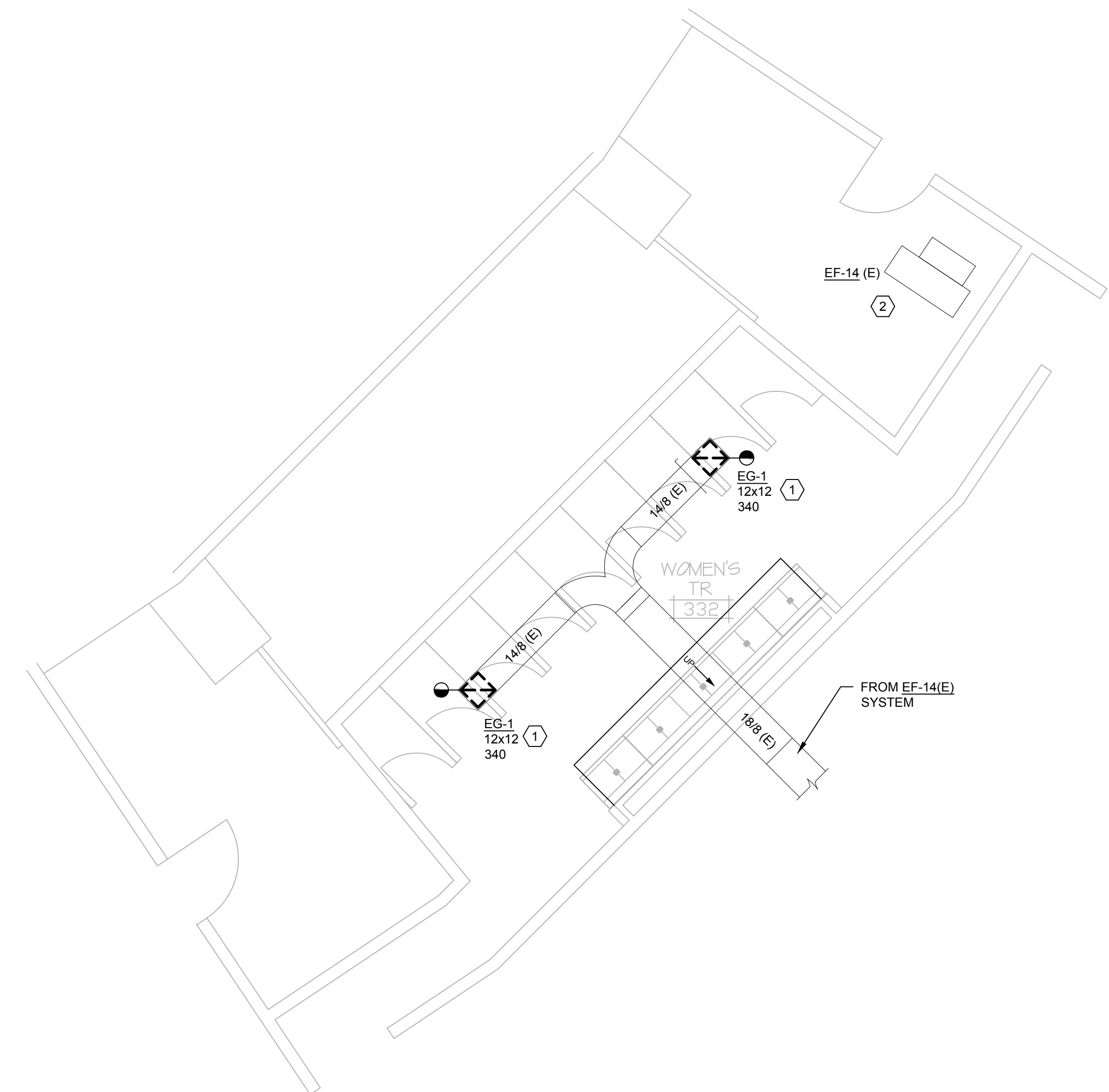
**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

**M203-4**

**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007



**2**  
WOMENS 332  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

- GENERAL NOTES:**
- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
  - CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
  - CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.
- NEW WORK KEYED NOTES:**
- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.
  - CONTRACTOR SHALL RE-BALANCE EXISTING TOILET EXHAUST FAN. REFER TO SCHEDULE AND SPECIFICATIONS FOR FURTHER DETAIL.



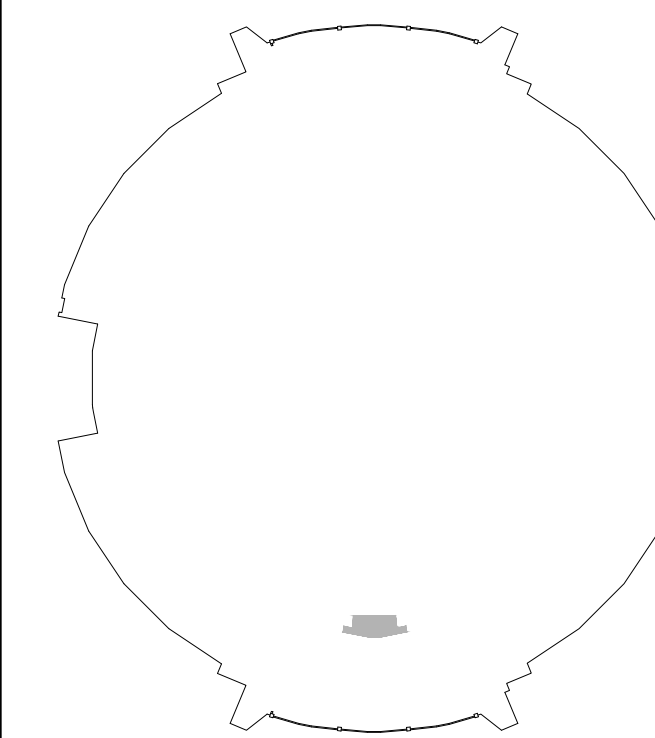
**1**  
WOMENS 332  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

- GENERAL NOTES:**
- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- DEMOLITION KEYED NOTES:**
- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.

Architecture  
Planning

DorschnerAssociates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

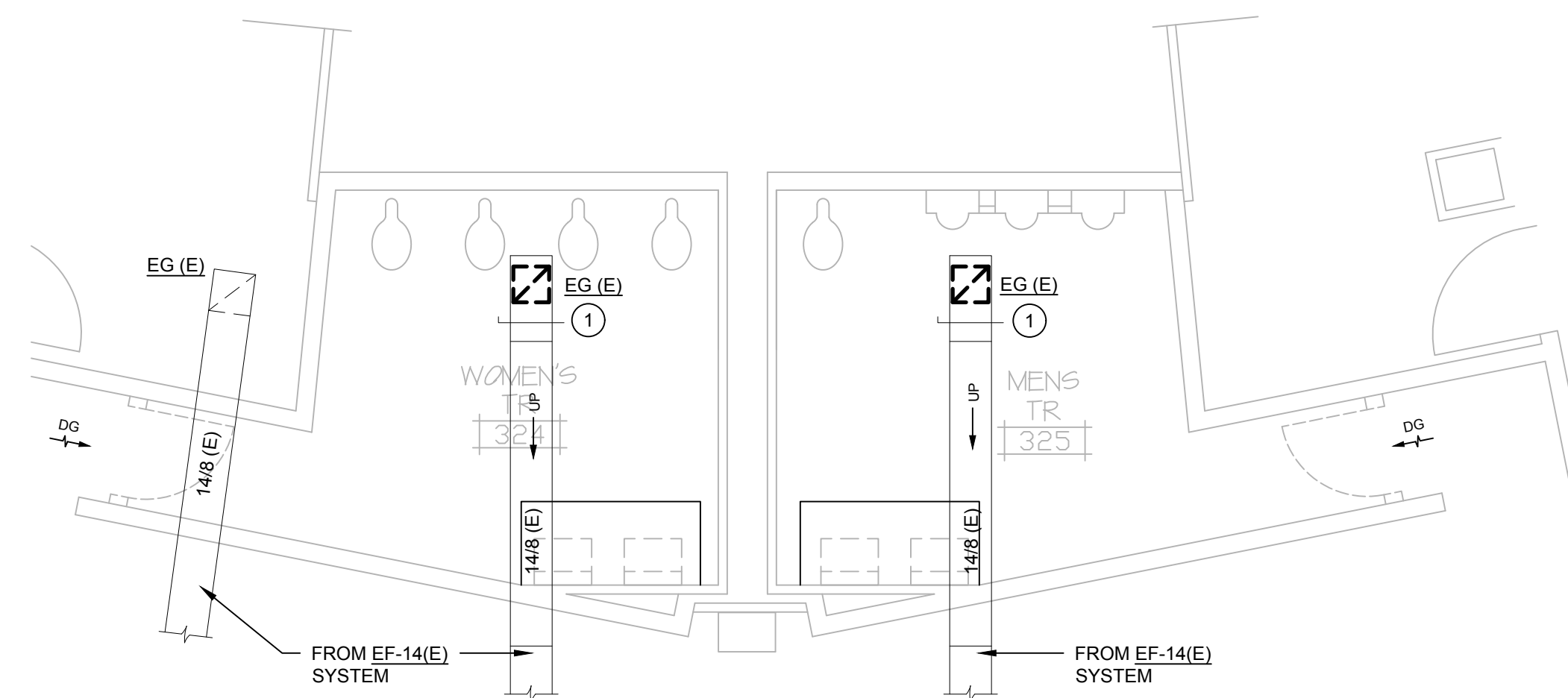
M203-5

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

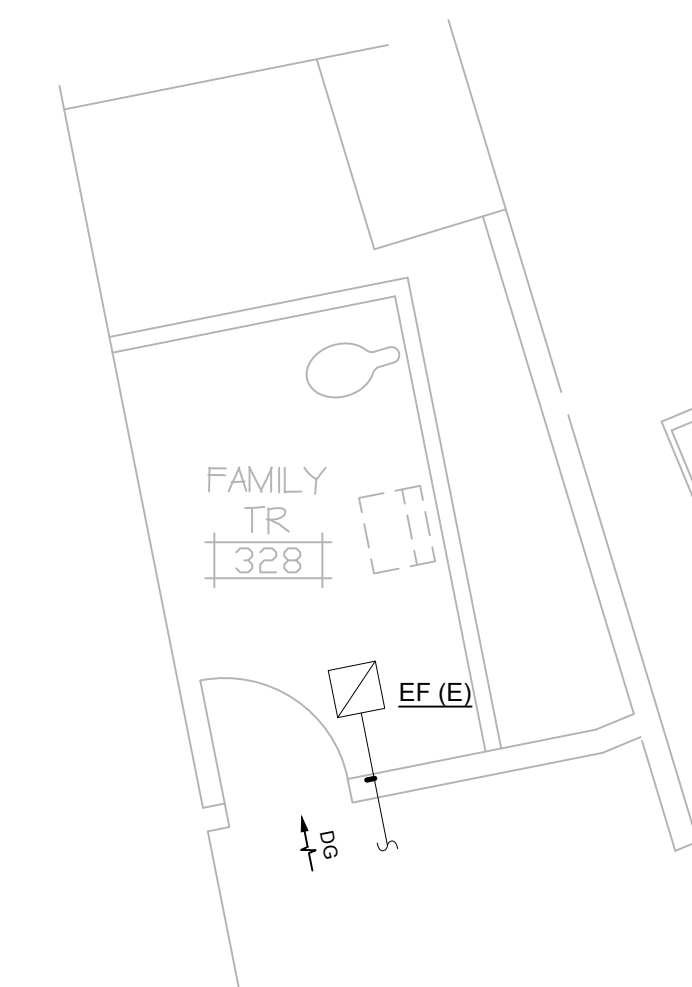
**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



1  
WOMENS 324 / MENS 325 / FAMILY 328  
THIRD LEVEL DEMOLITION PLAN - HVAC

M203-5 SCALE: 1/4"=1'-0"

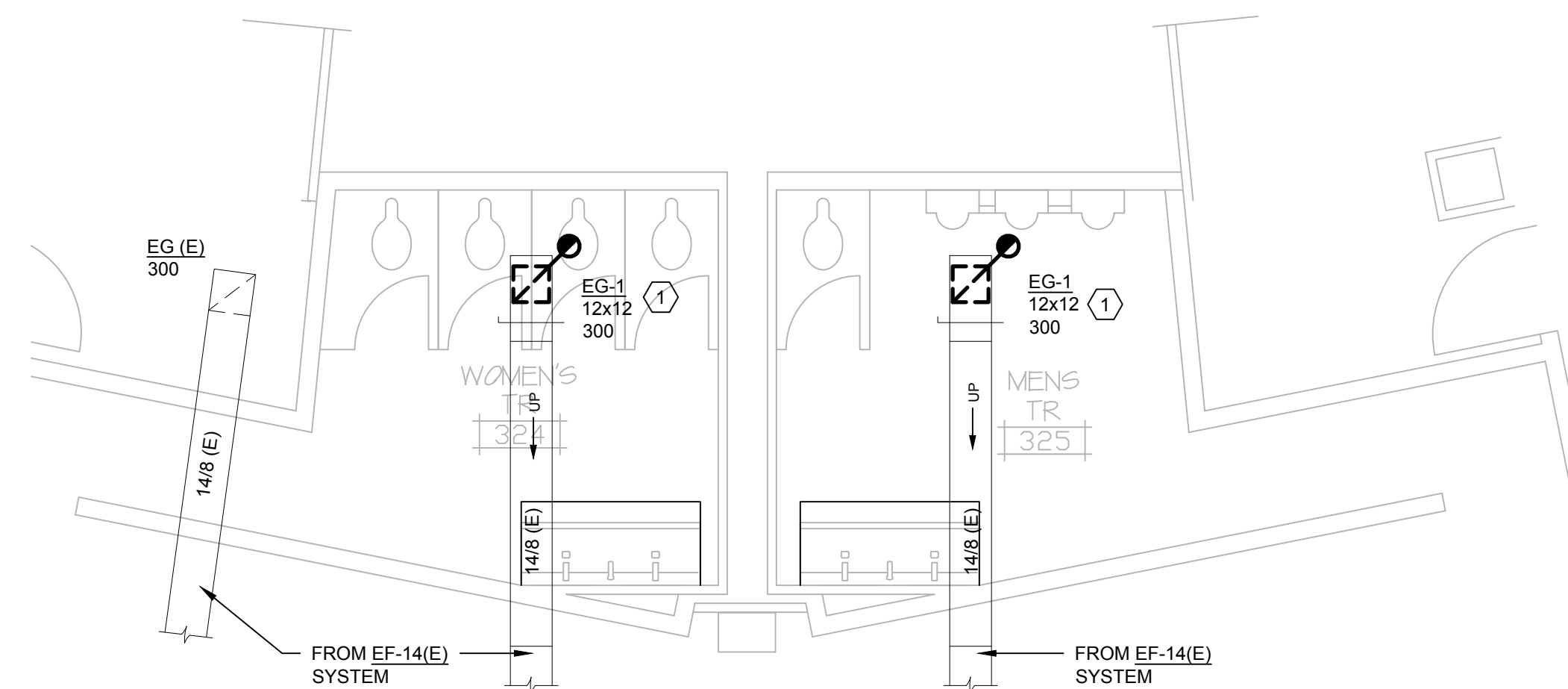


**GENERAL NOTES:**

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- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

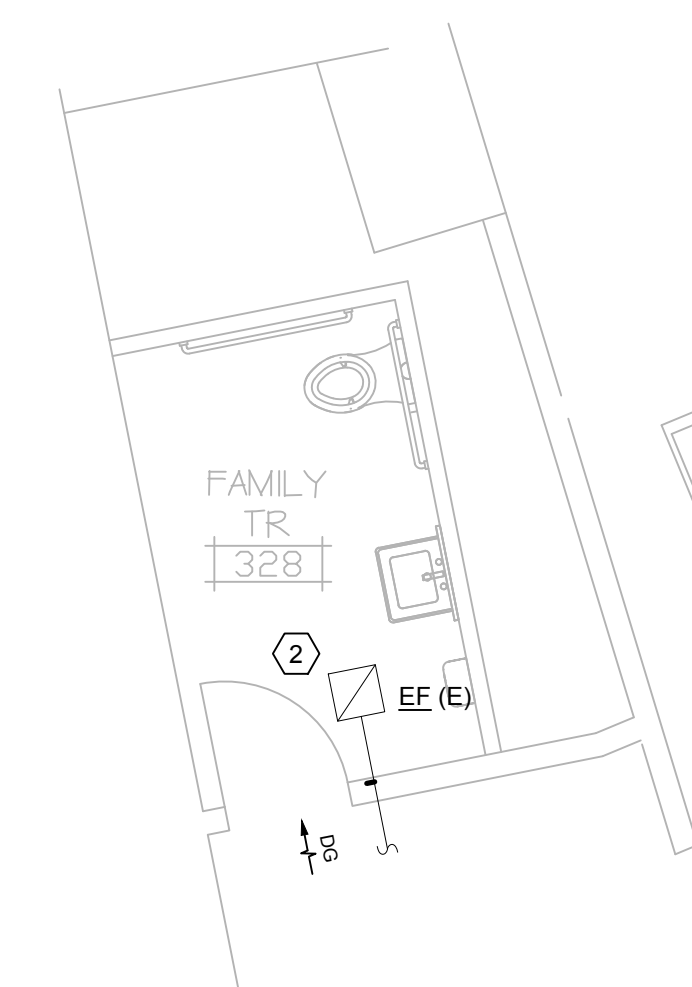
**NEW WORK KEYED NOTES:**

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.
- CONTRACTOR SHALL RE-PAINT EXISTING CEILING EXHAUST GRILLE. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



2  
WOMENS 324 / MENS 325 / FAMILY 328  
THIRD LEVEL NEW WORK PLAN - HVAC

M203-5 SCALE: 1/4"=1'-0"

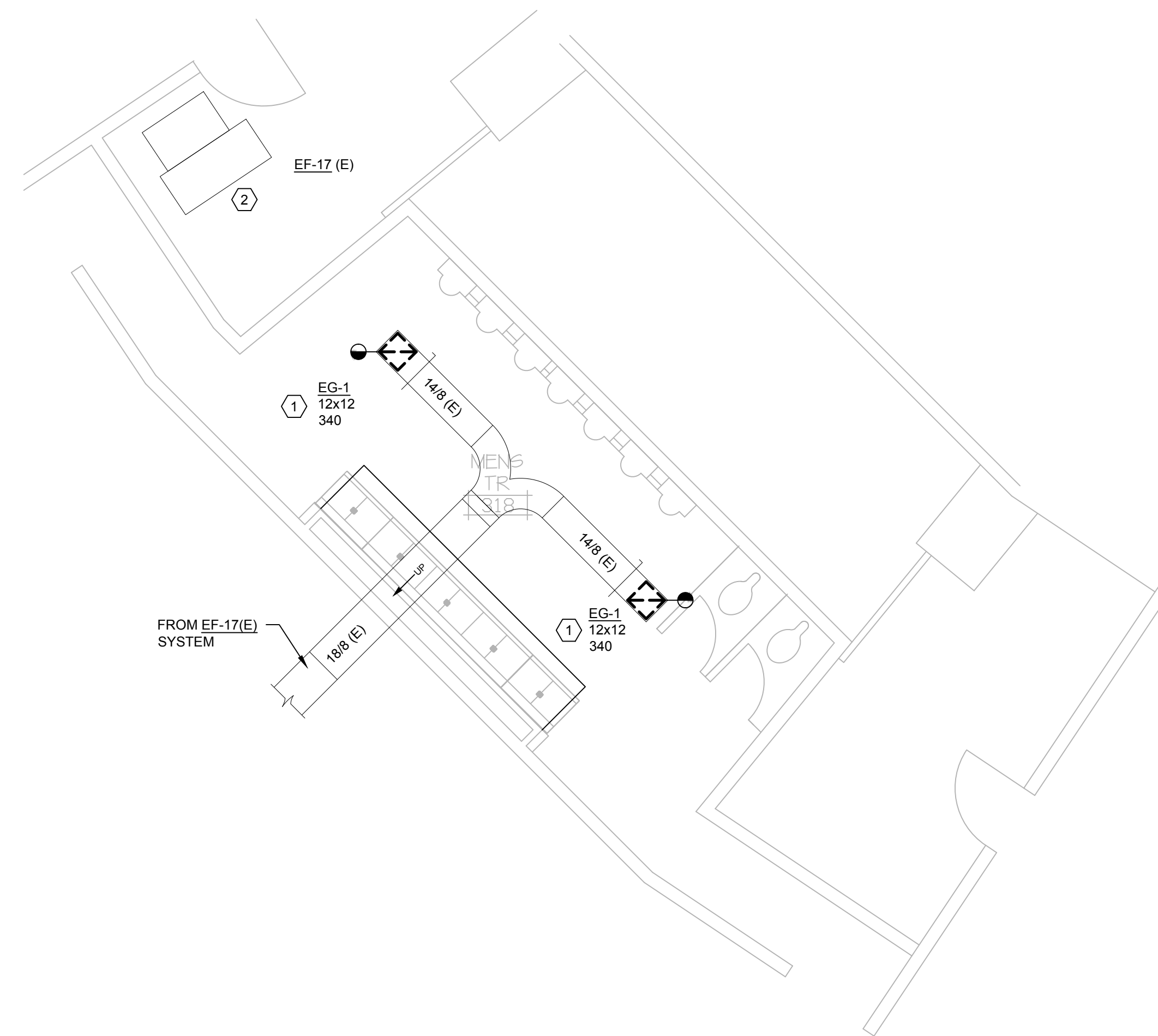


**JDR**  
ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



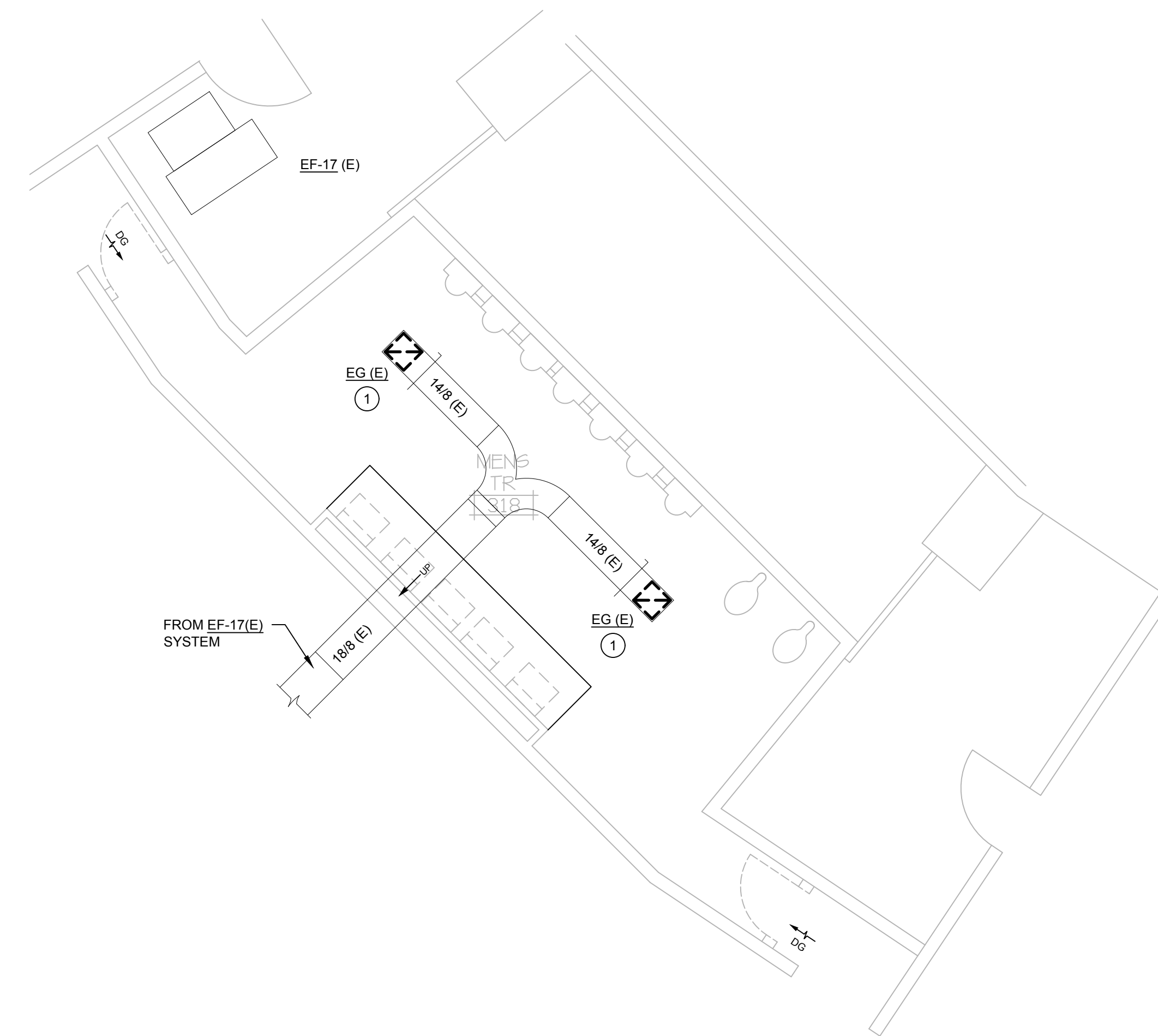
**2** MENS 318  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
2. CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
3. CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- ① CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.
- ② CONTRACTOR SHALL RE-BALANCE EXISTING TOILET EXHAUST FAN. REFER TO SCHEDULE AND SPECIFICATIONS FOR FURTHER DETAIL.



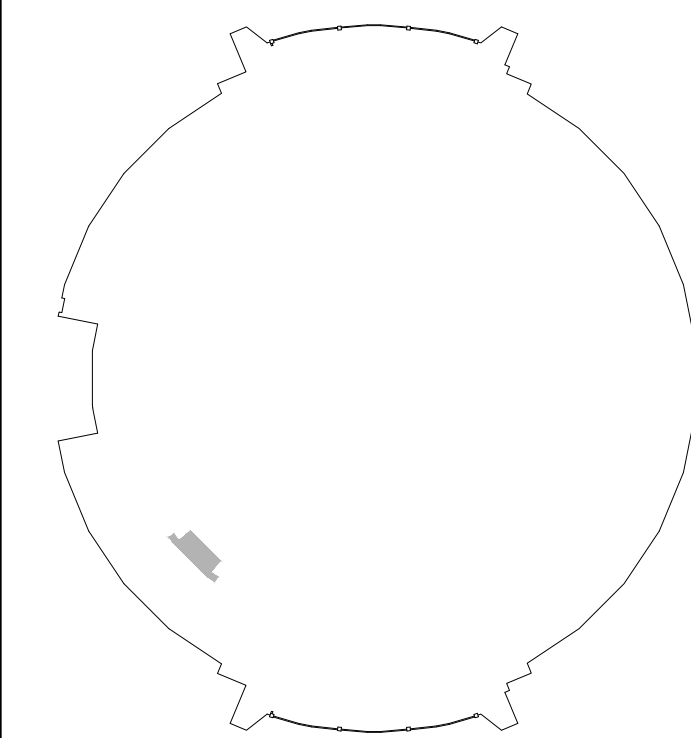
**1** MENS 318  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- ① CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

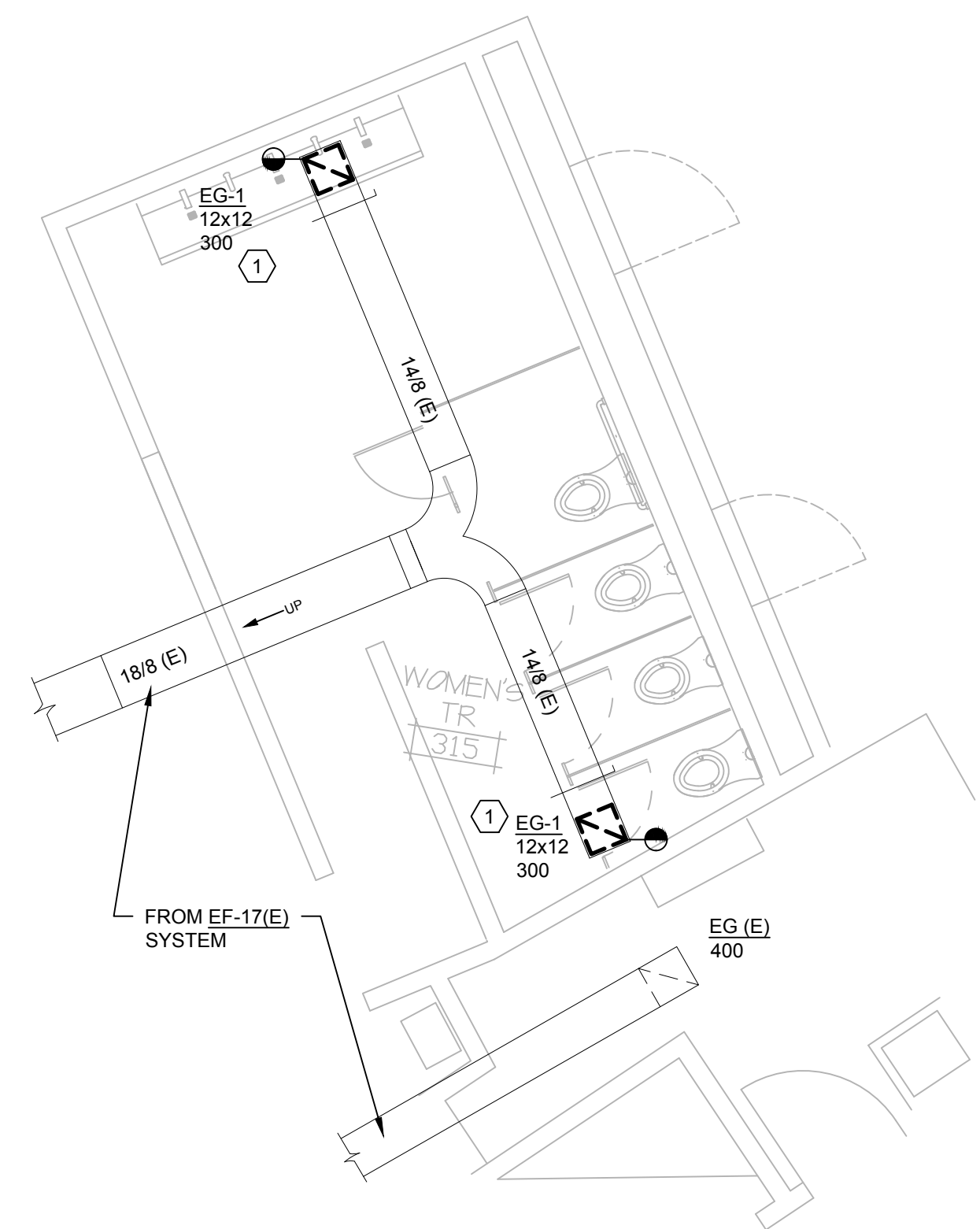
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M203-6

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



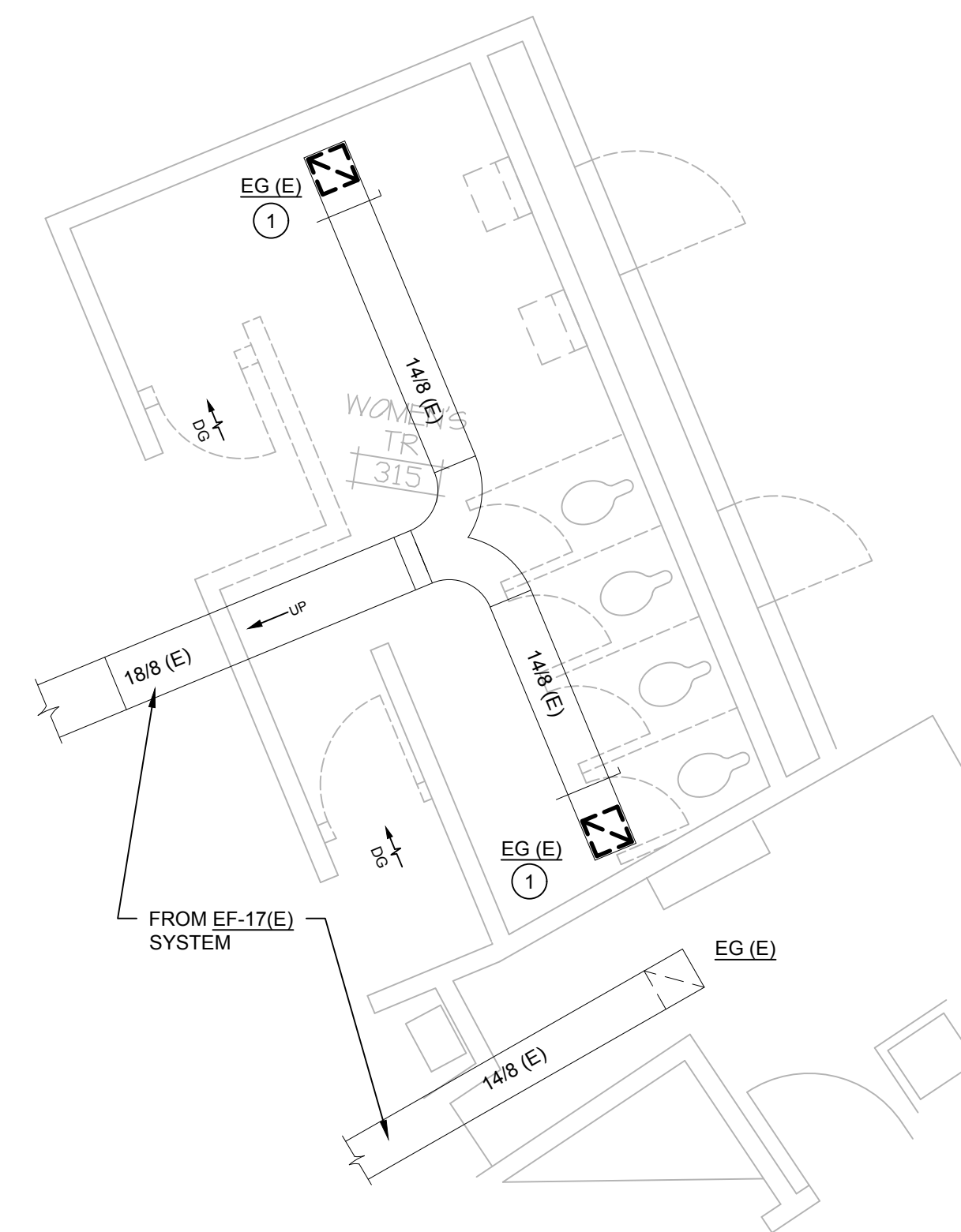
**2** WOMENS 315  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



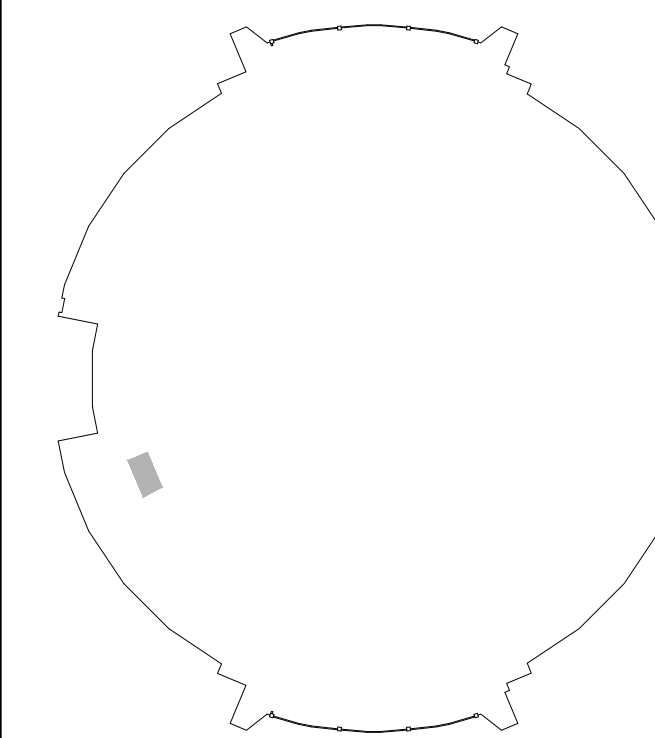
**1** WOMENS 315  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

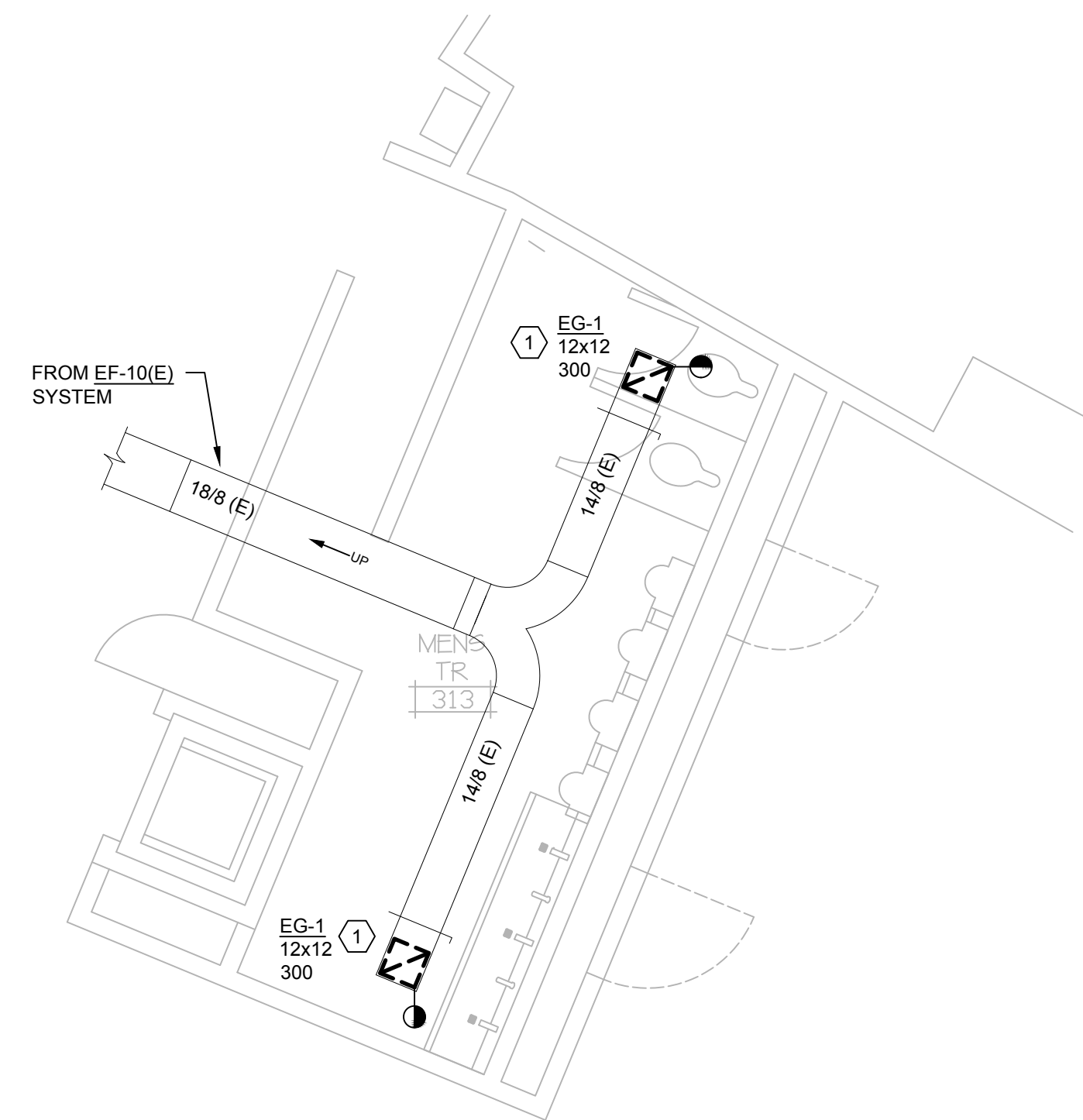
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M203-7

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



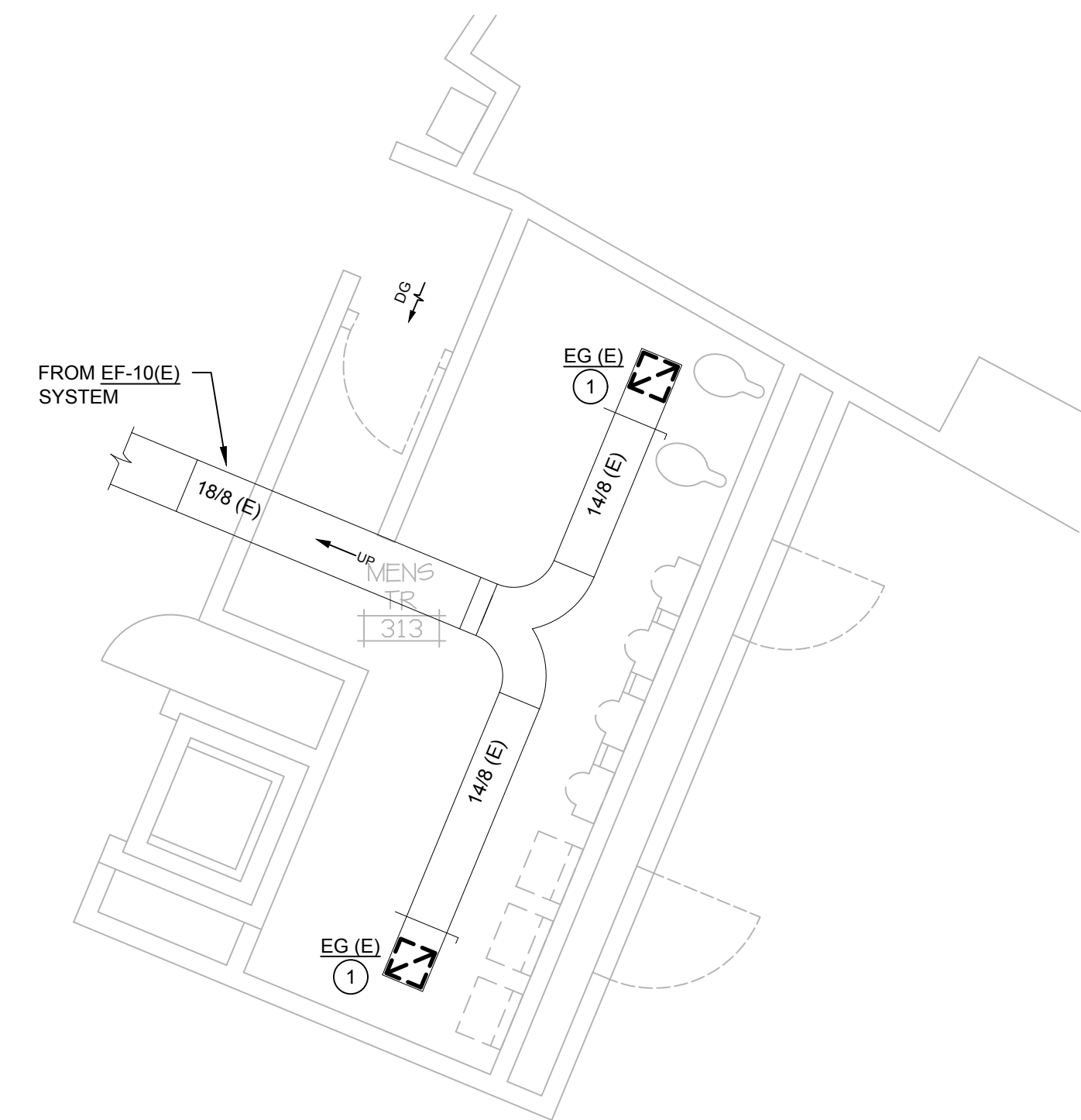
**2** M203-8  
MENS 313  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



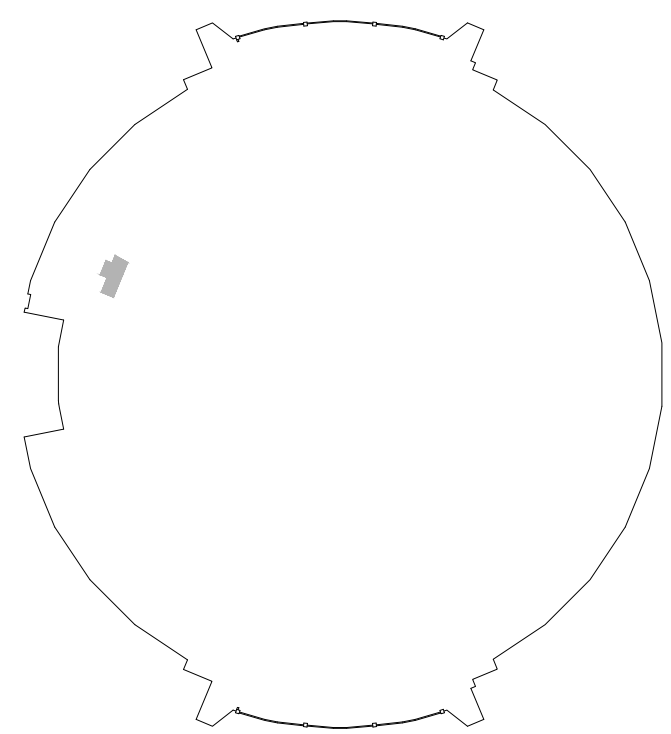
**1** M203-8  
MENS 313  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

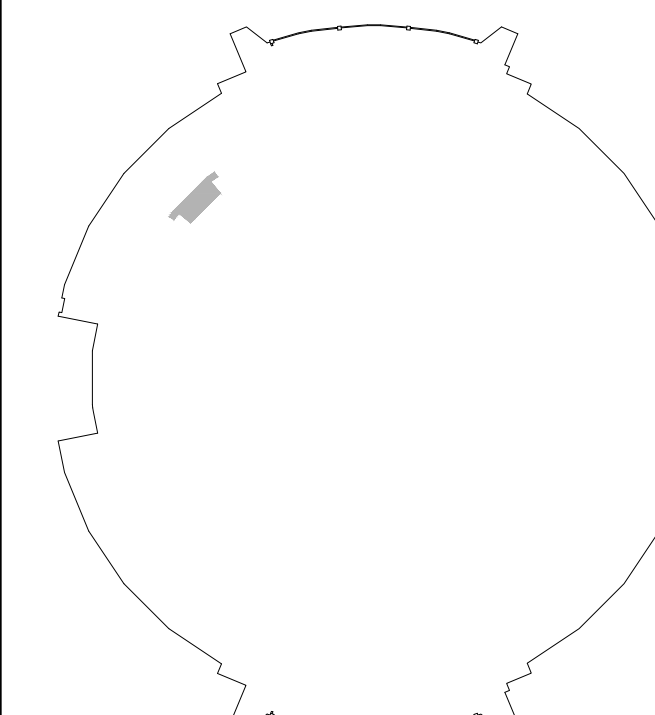
**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007

M203-8

Architecture  
Planning

Dorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED



KEY PLAN

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
ALLIANT ENERGY CENTER  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
THIRD LEVEL CONCOURSE  
PLAN - HVAC

**DATE**  
03.28.17

M203-9

**JDR** ENGINEERING, INC.  
5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO. 170007



**2** WOMENS 310 / FAMILY 308  
THIRD LEVEL NEW WORK PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
- CONTRACTOR SHALL CLEAN TOILET EXHAUST SYSTEM. REFER TO SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL BALANCE EXHAUST GRILLES TO THE CFM SHOWN.

**NEW WORK KEYED NOTES:**

- CONTRACTOR SHALL PROVIDE NEW EXHAUST GRILLE. REFER TO SPECIFICATIONS AND SCHEDULE FOR FURTHER DETAIL. GRILLE SHALL BE FACTORY PRIMED AND FIELD PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.
- CONTRACTOR SHALL RE-BALANCE EXISTING TOILET EXHAUST FAN. REFER TO SCHEDULE AND SPECIFICATIONS FOR FURTHER DETAIL.
- CONTRACTOR SHALL RE-PAINT EXISTING CEILING EXHAUST GRILLE. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL COLOR.



**1** WOMENS 310 / FAMILY 308  
THIRD LEVEL DEMOLITION PLAN - HVAC  
SCALE: 1/4"=1'-0"  
NORTH

**GENERAL NOTES:**

- HVAC CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.

**DEMOLITION KEYED NOTES:**

- CONTRACTOR TO DEMOLISH EXISTING DUCT MOUNTED EXHAUST GRILLE.

**ELECTRICAL SYMBOLS**

- LED STRIP
- LED RECESSED FIXTURE
- LED RECESSED FIXTURE
- DUPLEX RECEPTACLE
- JUNCTION BOX
- OCCUPANCY SENSOR
- SURFACE CEILING SPEAKER
- ELECTRICAL PANEL
- KEY NOTE NUMBER
- SPECIAL OUTLET

**ABBREVIATIONS**

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BPG BELOW FINAL GRADE
- BOL BUILT-IN OVERLOAD
- C CONDUIT
- CKT CIRCUIT
- CB COMBINATION STARTER
- D DEDICATED
- DD DOUBLE DUPLEX
- EC ELECTRICAL CONTRACTOR
- EUC ELECTRIC WATER COOLER
- ER EXISTING TO BE REMOVED
- ERL EXISTING RELOCATED (NEW LOCATION)
- ETL EXISTING TO BE RELOCATED (OLD LOCATION)
- EX EXISTING TO REMAIN
- FACP FIRE ALARM CONTROL PANEL
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT INTERRUPTER
- HV HEATING AND VENTILATION CONTRACTOR
- IG ISOLATED GROUND
- IR IN ROOM
- IU IN UNIT
- MAN MANUAL STARTER
- MAG MAGNETIC STARTER
- MCA MINIMUM CIRCUIT AMPACITY
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT
- NU NEAR UNIT
- PB PUSHBUTTON
- PC PLUMBING CONTRACTOR
- FU FIRE-ARMED
- RV REDUCED VOLTAGE STARTER
- RAI REMAIN AS IS
- SC SEPARATE CIRCUIT
- SS SPEED SWITCH
- SW SWITCH
- TC TIMECLOCK
- TS THERMOSTAT
- UM UNIT MANUFACTURER
- WP WEATHERPROOF

**LIGHT FIXTURE SCHEDULE**

TAG	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		MOUNT	CEILING TYPE	VOLT	SEE NOTE
	NO	TYPE		MAKE	CATALOG NO				
A		3000L 3500K	LED OPEN DOWNLIGHT	GOHAM	EVO35/30 6AR MWD LD MVOLT EZ10	RECESS	DW	120	
C		3000L 3500K	LED STRIP WITH LENS	LITHONIA	ZL1N L48 3000LM FST MVOLT 35K 90CRI WH	SURFACE	EXP.	120	
D		1313LMFT 3500K	LED WALL MOUNT DIRECT/INDIRECT-48"	VODE	707-Z3 4 48 S1 AE 1 0 Z SO 35 B1 0 ZZ	WALL		120	1
E		1313LMFT 3500K	LED WALL MOUNT DIRECT/INDIRECT-24"	VODE	707-Z3 4 48 S1 AE 1 0 Z SO 35 B1 0 ZZ	WALL		120	1

**NOTES:**  
1. WITH REMOTE DRIVER. COLOR AS SELECTED BY ARCHITECT.

Parts Diagram | Surface Mount Bracket (S1)

ZipThree | 707

**INSTALLATION DETAILS - TYPES "D" AND "E"**

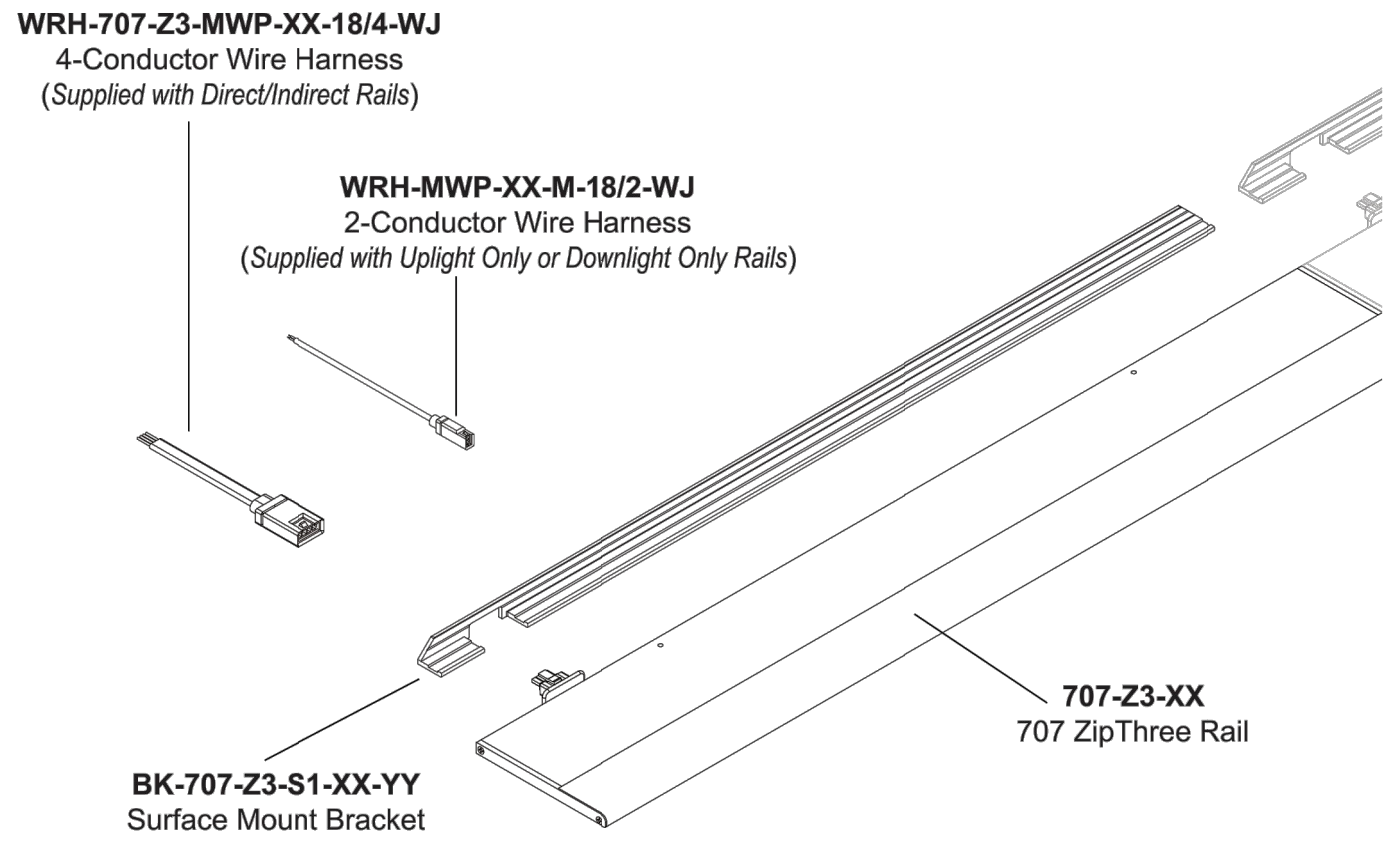


Figure 2  
Parts Diagram

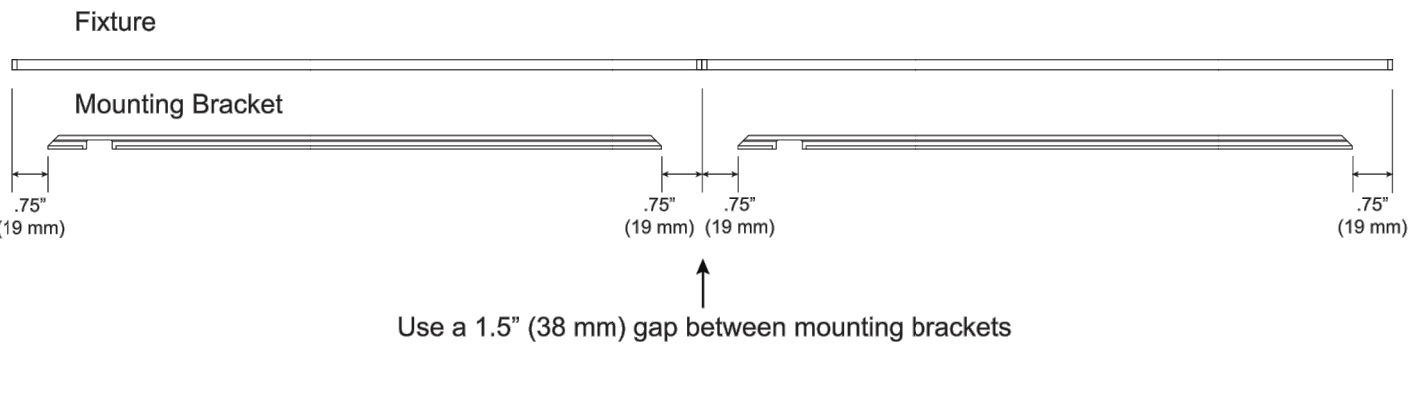
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Revision A | Page 05 of 08

Installation Instructions | Surface Mount Bracket (S1)

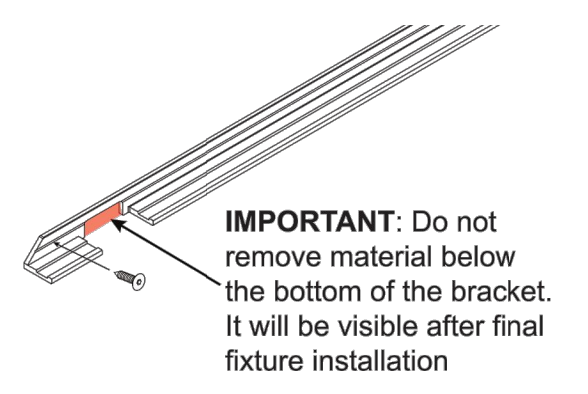
ZipThree | 707

**Step 2.1: Alignment of Bracket**  
Accurate placement and alignment of the Surface Bracket is very important. Vode recommends installer pay close attention to the levelness of mounting plane. Use right side to properly align bracket and fixture placement. Mounting bracket should be inset 3/4" (19 mm) from fixture. For multi-rail systems there should be a 1.5" (38 mm) between mounting brackets.



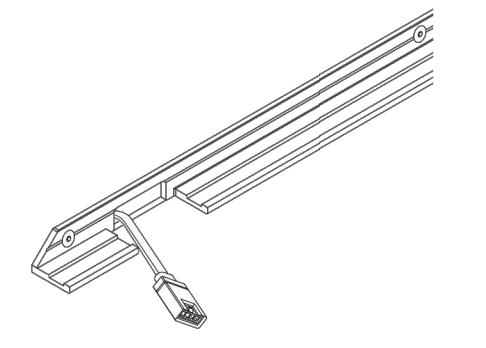
**Step 2.2: Install Bracket to Wall**  
Use mounting bracket to trace outline of mouse hole and carefully remove material. Secure bracket to wall surface using #8 screws (provided by others). Be sure bracket is level and flush.

**NOTE:** Install screws in screw channel. Bracket does not have screw holes. One screw must be placed to the left of the mouse hole and then at 12" (305 mm) intervals.



**IMPORTANT:** Do not remove material below the bottom of the bracket. It will be visible after final fixture installation

**Step 2.3: Bring in Power**  
Feed provided wire harness through mouse hole. Leave ~1" (25 mm) hanging out of the wall.



**NOTES:** ROUTE WIRE HARNESSSES IN CONDUIT, CONCEALED. LOCATE DRIVERS IN ADJACENT UNFINISHED SPACES.

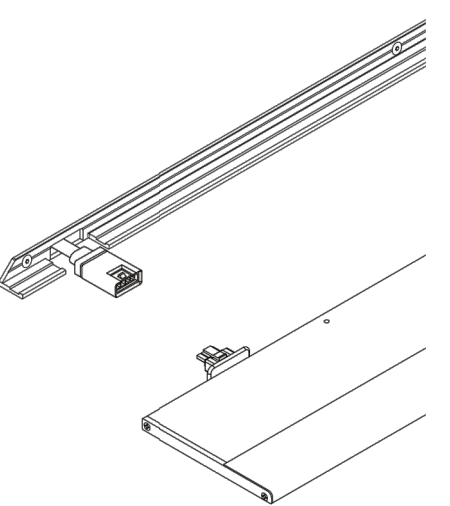
**INSTALLATION DETAILS - TYPES "D" AND "E"**

Installation Instructions | Surface Mount Bracket (S1)

ZipThree | 707

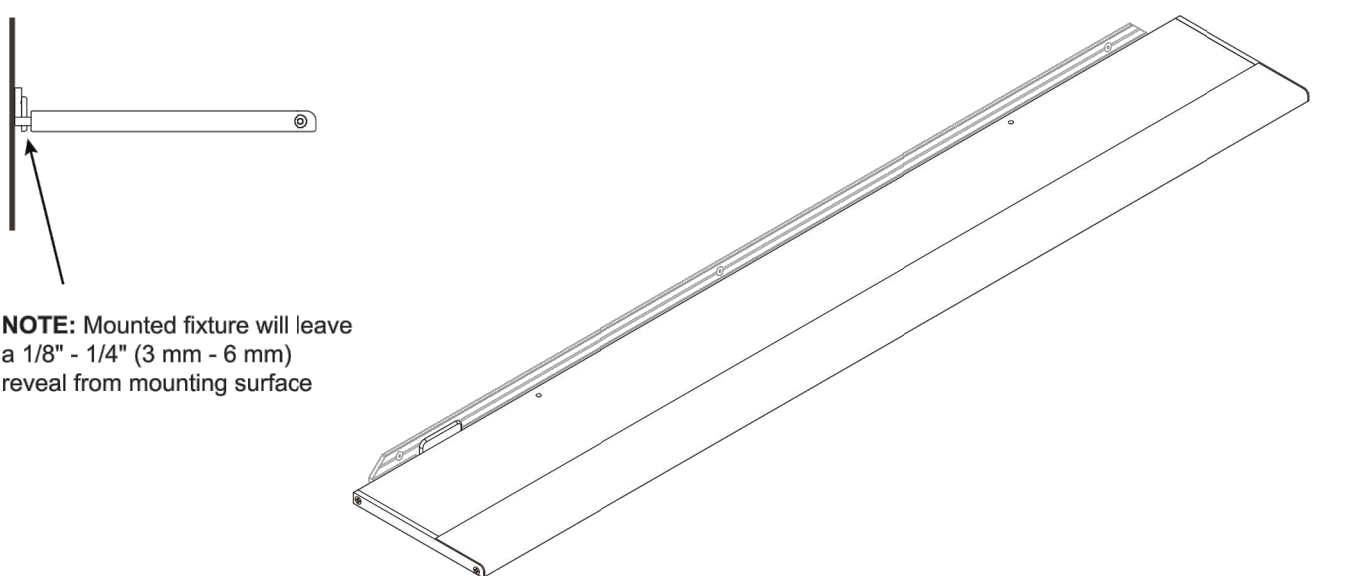
**Step 2.4: Install Fixture**  
Connect wire harness to fixture connector.

**NOTE:** Fixture connector adjusts side-to-side to allow proper alignment with mouse hole.



**Step 2.5: Finish Installation**  
Slide fixture over bracket flange and adjust to desired location. Fixture connector should fit snugly into mouse hole. Tighten set screws using 1/16 hex key. Do not over tighten!

**Installed Fixture:**

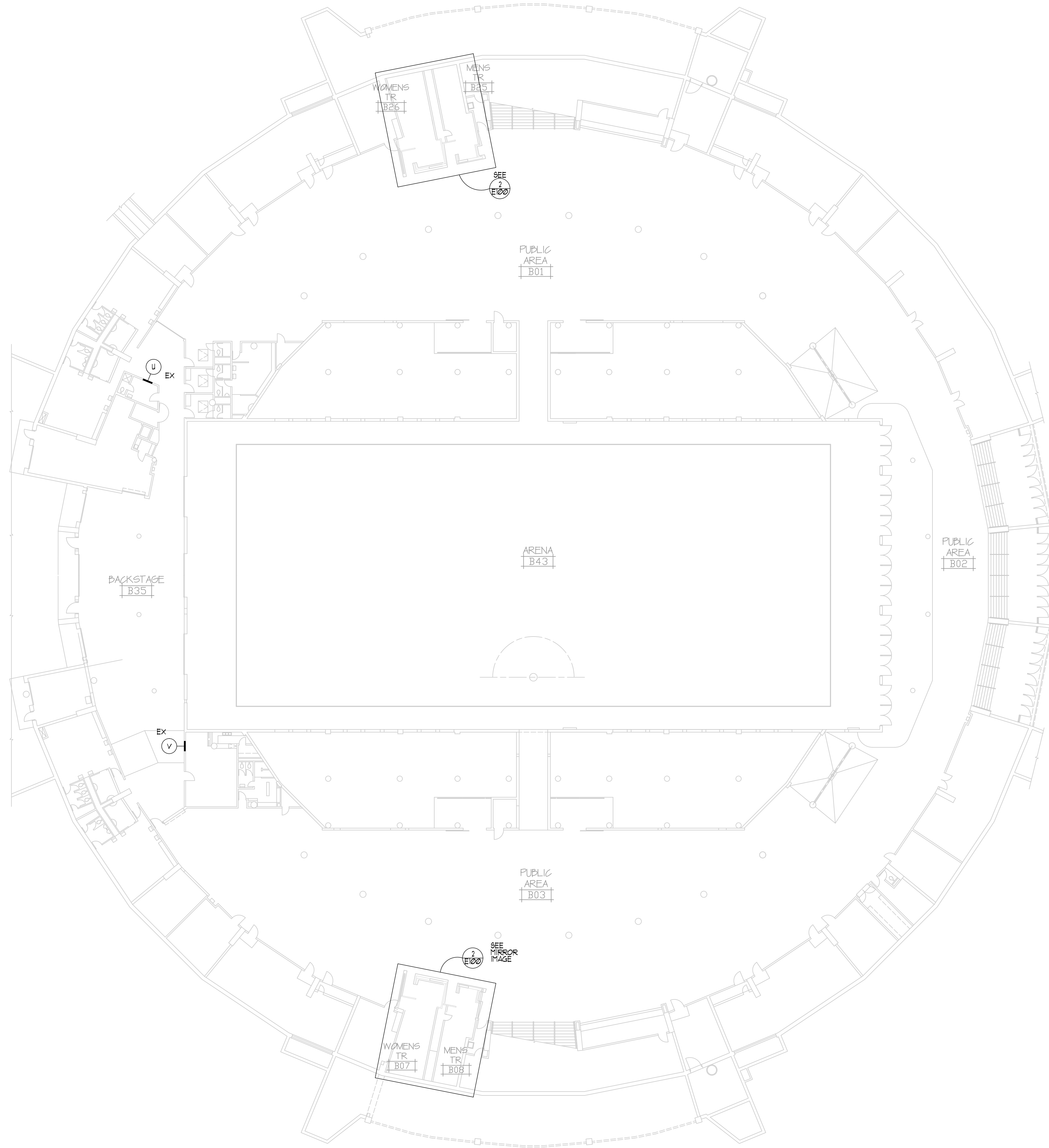


**NOTE:** Mounted fixture will leave a 1/8" - 1/4" (3 mm - 6 mm) reveal from mounting surface

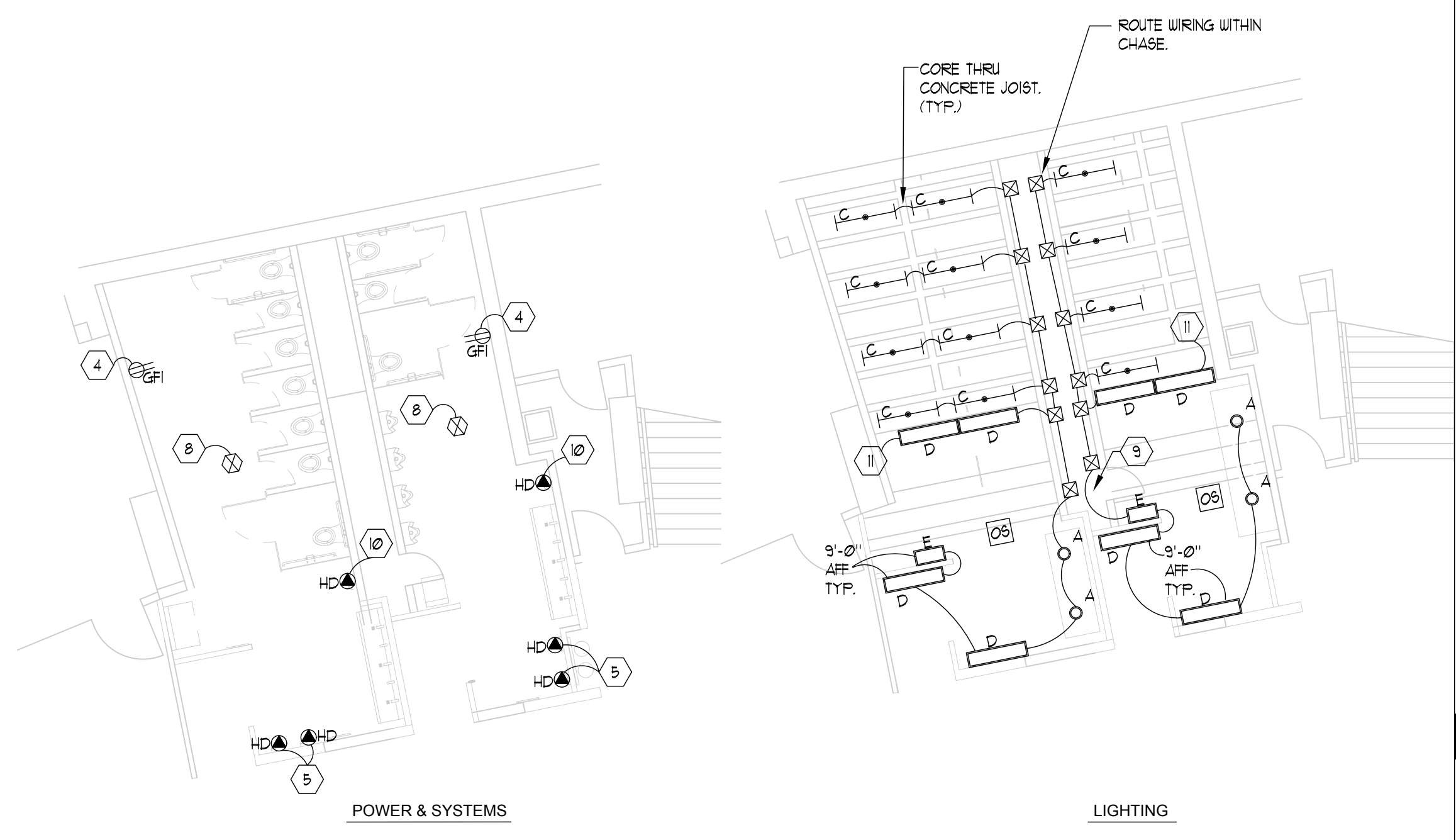
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Revision A | Page 07 of 08

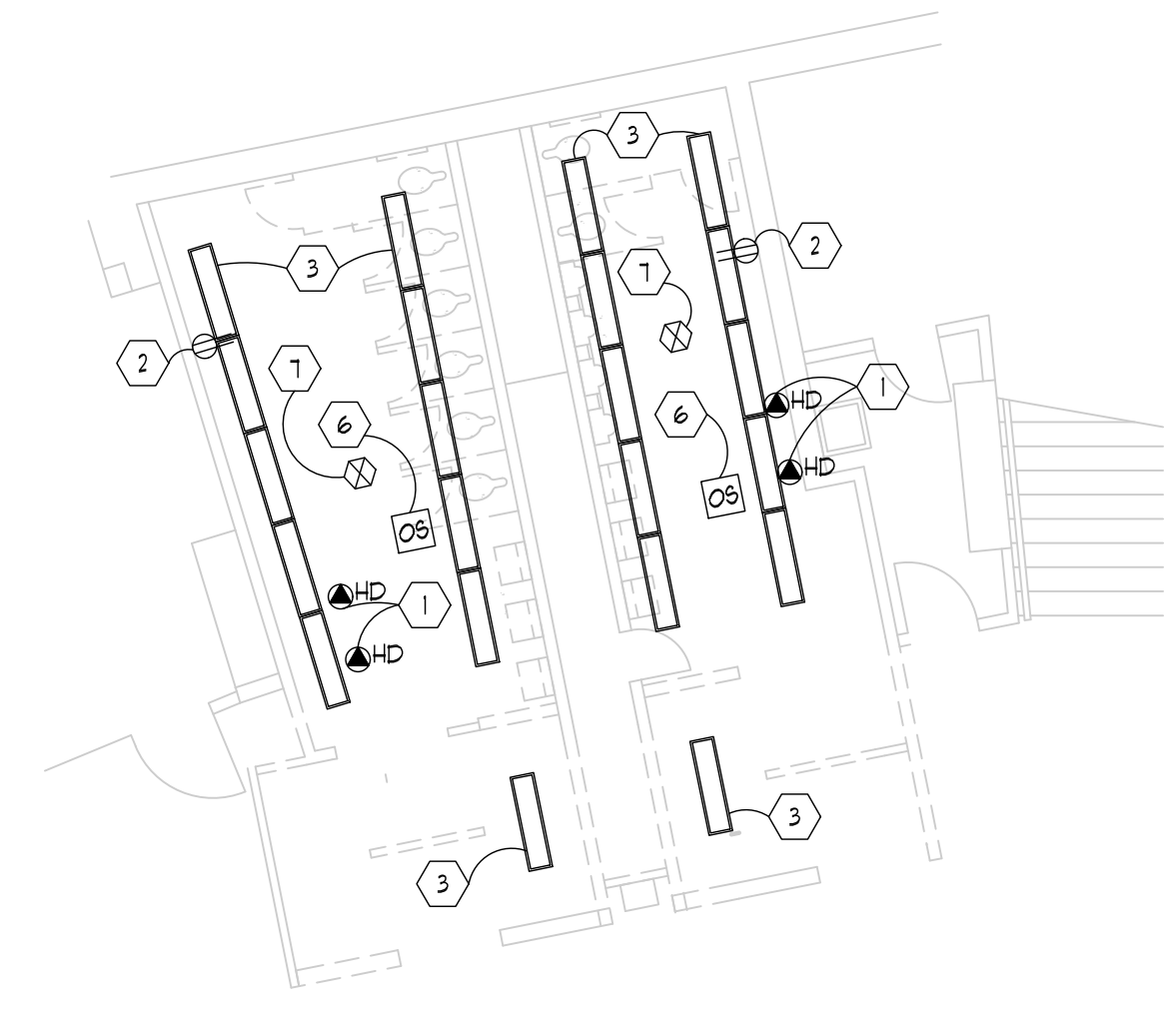




**1 ARENA LEVEL PLAN**  
1" = 20'-0"



**POWER & SYSTEMS**      **LIGHTING**



**DEMOLITION**

**2 ELECTRICAL PLAN ROOM B25/B26 - B07/B08 SIM OPP HAND**  
1/8" = 1'-0"

**KEYED NOTES:**

- 1 OWNER WILL REMOVE HAND DRYERS. ELECTRICAL CONTRACTOR TO REMOVE CONDUCTORS
- 2 REMOVE RECEPTACLE. KEEP BOX.
- 3 REMOVE LIGHTING.
- 4 PROVIDE NEW RECEPTACLE AND COVERPLATE IN EXISTING BOX. WIRE TO EXISTING CIRCUIT.
- 5 PROVIDE NEW HAND DRYER OUTLET. WIRE TO BREAKER SERVING ORIGINAL HAND DRYER OUTLET. (2" 1/2 x 1" 1/2 GROUND -1/2" C.) 20A 1 POLE BREAKER. OWNER WILL REINSTALL EXISTING HAND DRYER.
- 6 REMOVE OCCUPANCY SENSOR
- 7 REMOVE SPEAKER.
- 8 NEW SPEAKER CONNECT TO EXISTING FA CIRCUIT.
- 9 LOCATE LED DRIVERS IN CHASE.

**GENERAL NOTES:**

- 1 CONCEAL ALL CONDUIT EXCEPT AT STRUCTURAL CEILING
- 2 ALL CONDUIT ROUTING SUBJECT TO ARCHITECT APPROVAL
- 10 PROVIDE NEW HAND DRYER OUTLET. WIRE TO NEW BREAKER IN PANEL SERVING OTHER HAND DRYER OUTLETS. (2" 1/2 x 1" 1/2 GROUND -1/2" C.) 20A 1 POLE BREAKER. OWNER WILL FURNISH HAND DRYER FOR INSTALLATION BY E.C.
- 11 MOUNT TO FACE OF NEW SOFFIT 9'-0" AFF.

**PROJECT**  
COLISEUM RESTROOM  
UPGRADES  
1919 ALLIANT ENERGY  
CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
ARENA LEVEL PLAN

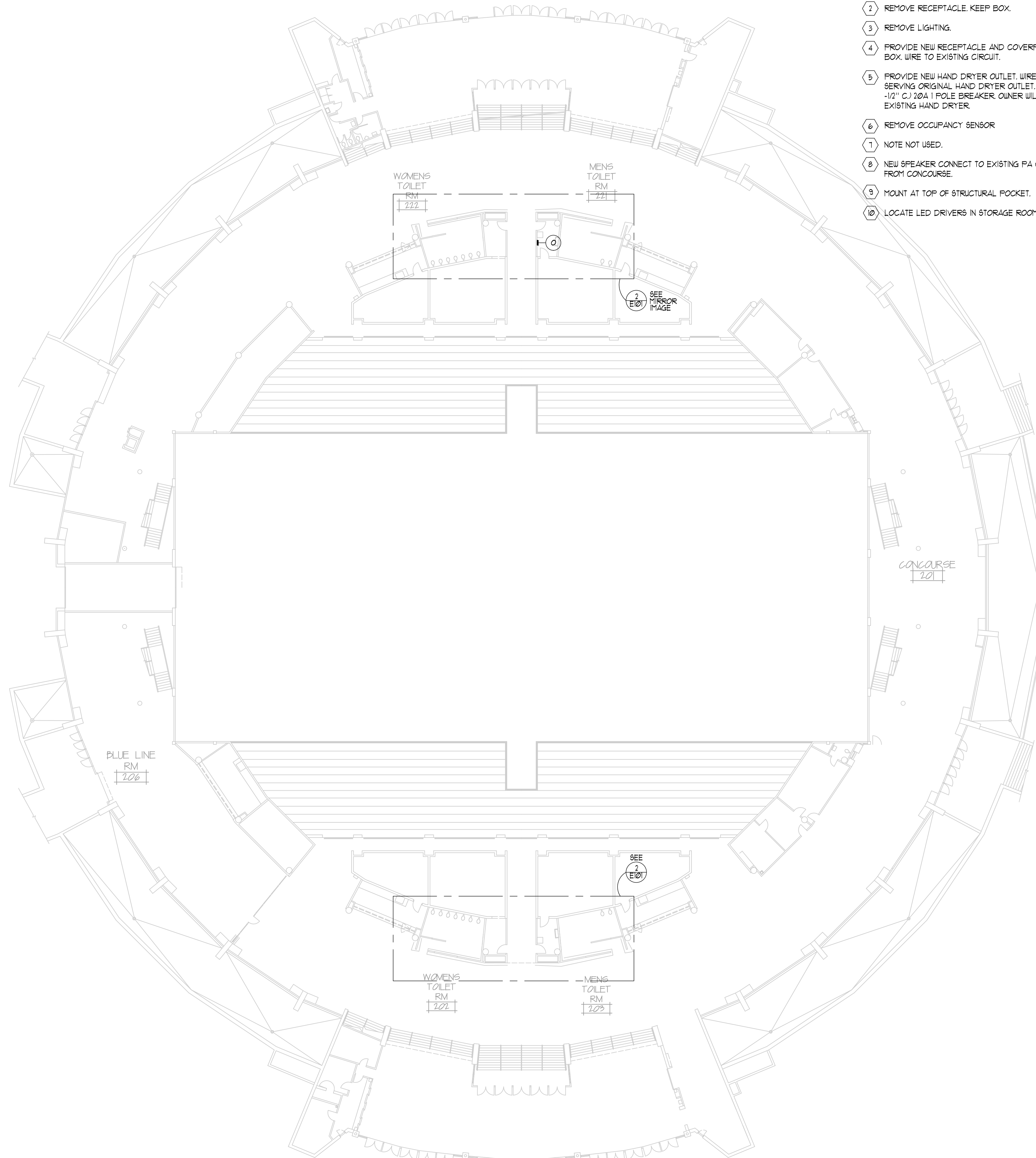
**DATE**  
03.28.17

**KEYED NOTES:**

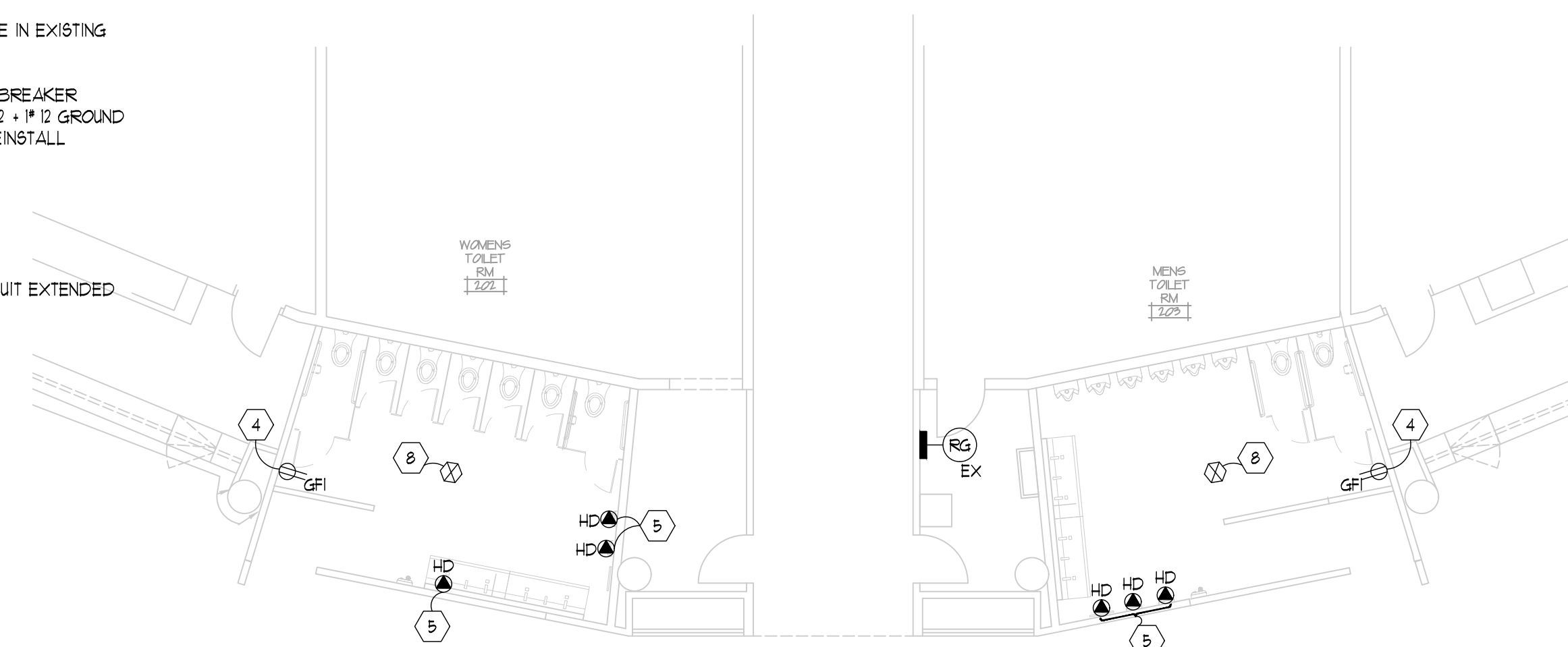
- 1 OWNER WILL REMOVE HAND DRYERS. ELECTRICAL CONTRACTOR TO REMOVE CONDUCTORS
- 2 REMOVE RECEPTACLE. KEEP BOX.
- 3 REMOVE LIGHTING.
- 4 PROVIDE NEW RECEPTACLE AND COVERPLATE IN EXISTING BOX. WIRE TO EXISTING CIRCUIT.
- 5 PROVIDE NEW HAND DRYER OUTLET. WIRE TO BREAKER SERVING ORIGINAL HAND DRYER OUTLET. (2" 12" x 12" GROUND -1/2" C.) 20A 1 POLE BREAKER. OWNER WILL REINSTALL EXISTING HAND DRYER
- 6 REMOVE OCCUPANCY SENSOR
- 7 NOTE NOT USED.
- 8 NEW SPEAKER CONNECT TO EXISTING PA CIRCUIT EXTENDED FROM CONCOURSE.
- 9 MOUNT AT TOP OF STRUCTURAL POCKET.
- 10 LOCATE LED DRIVERS IN STORAGE ROOM.

**GENERAL NOTES:**

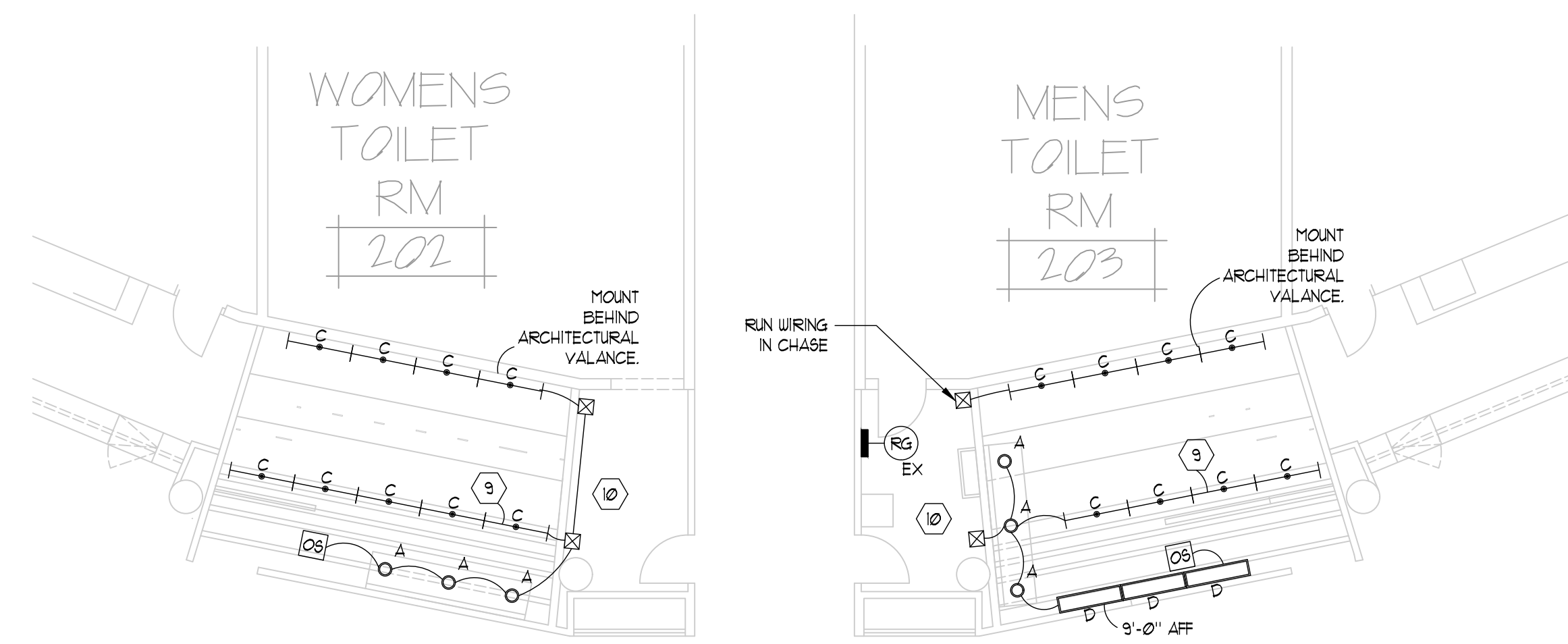
- 1 CONCEAL ALL CONDUIT EXCEPT AT STRUCTURAL CEILING
- 2 ALL CONDUIT ROUTING SUBJECT TO ARCHITECT APPROVAL



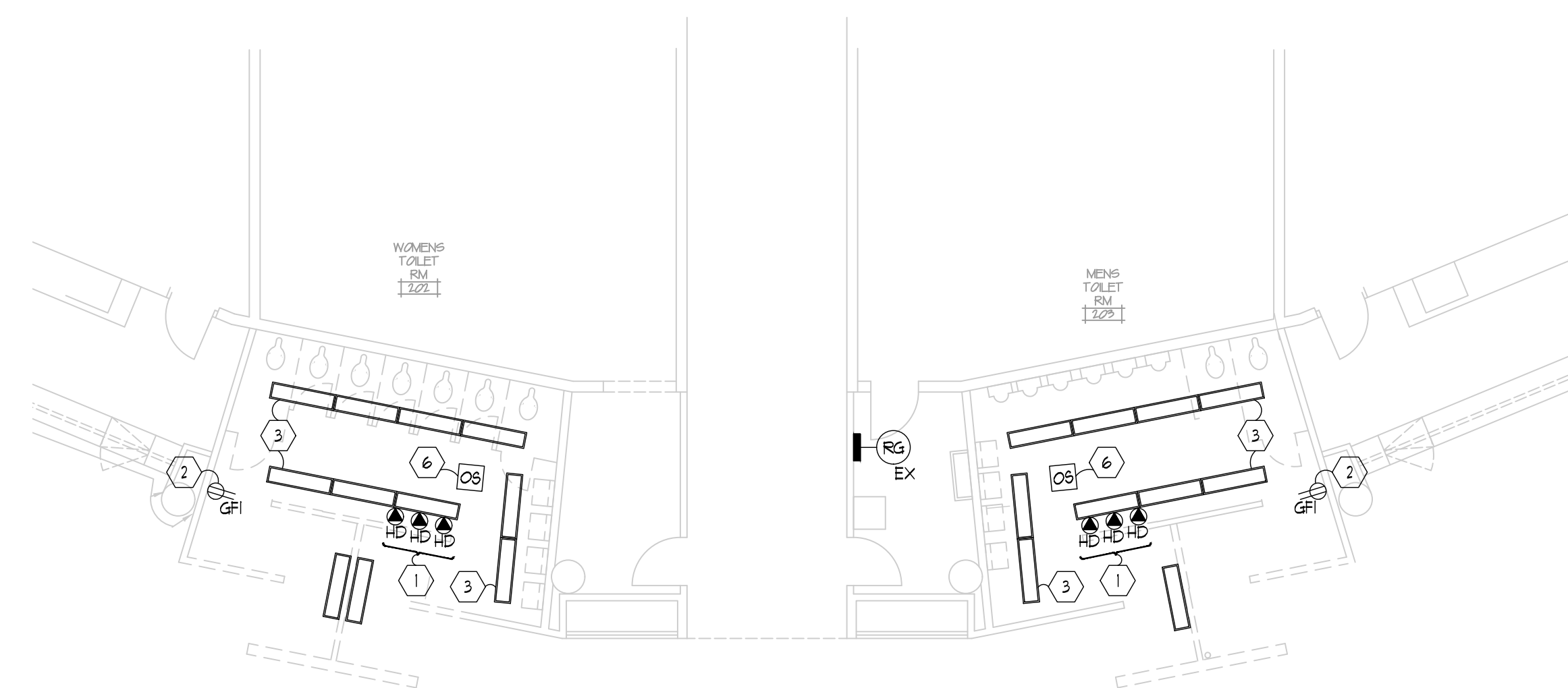
1 MAIN CONCOURSE PLAN  
1/8" = 20'-0"



POWER & SYSTEMS



LIGHTING



DEMOLITION

2 ELECTRICAL PLAN ROOM 202/203 - 221/222 SIM OPP HAND  
1/8" = 1'-0"

**PROJECT**  
COLISEUM RESTROOM UPGRADES  
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
MAIN LEVEL  
CONCOURSE PLAN

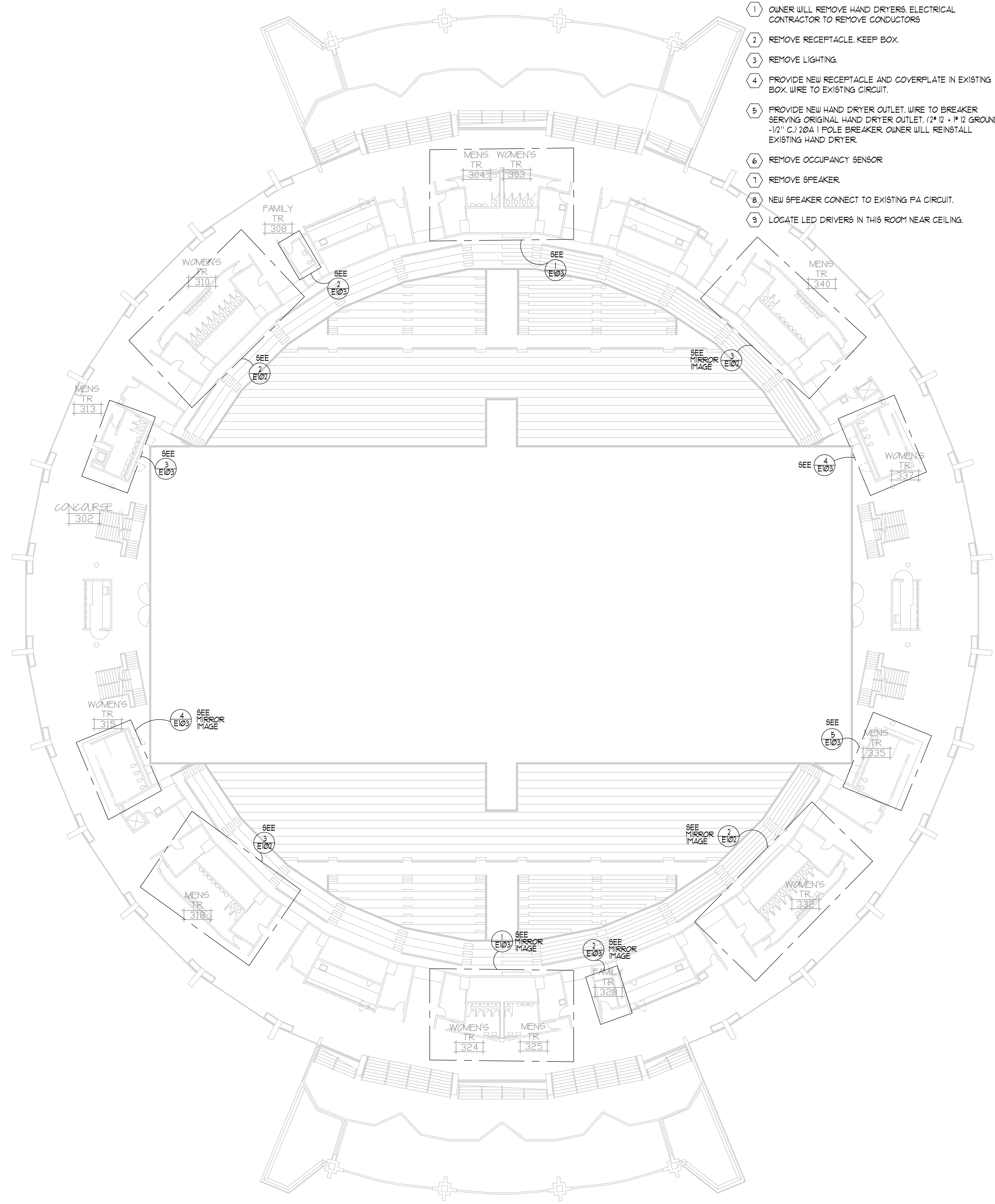
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**KEYED NOTES:**

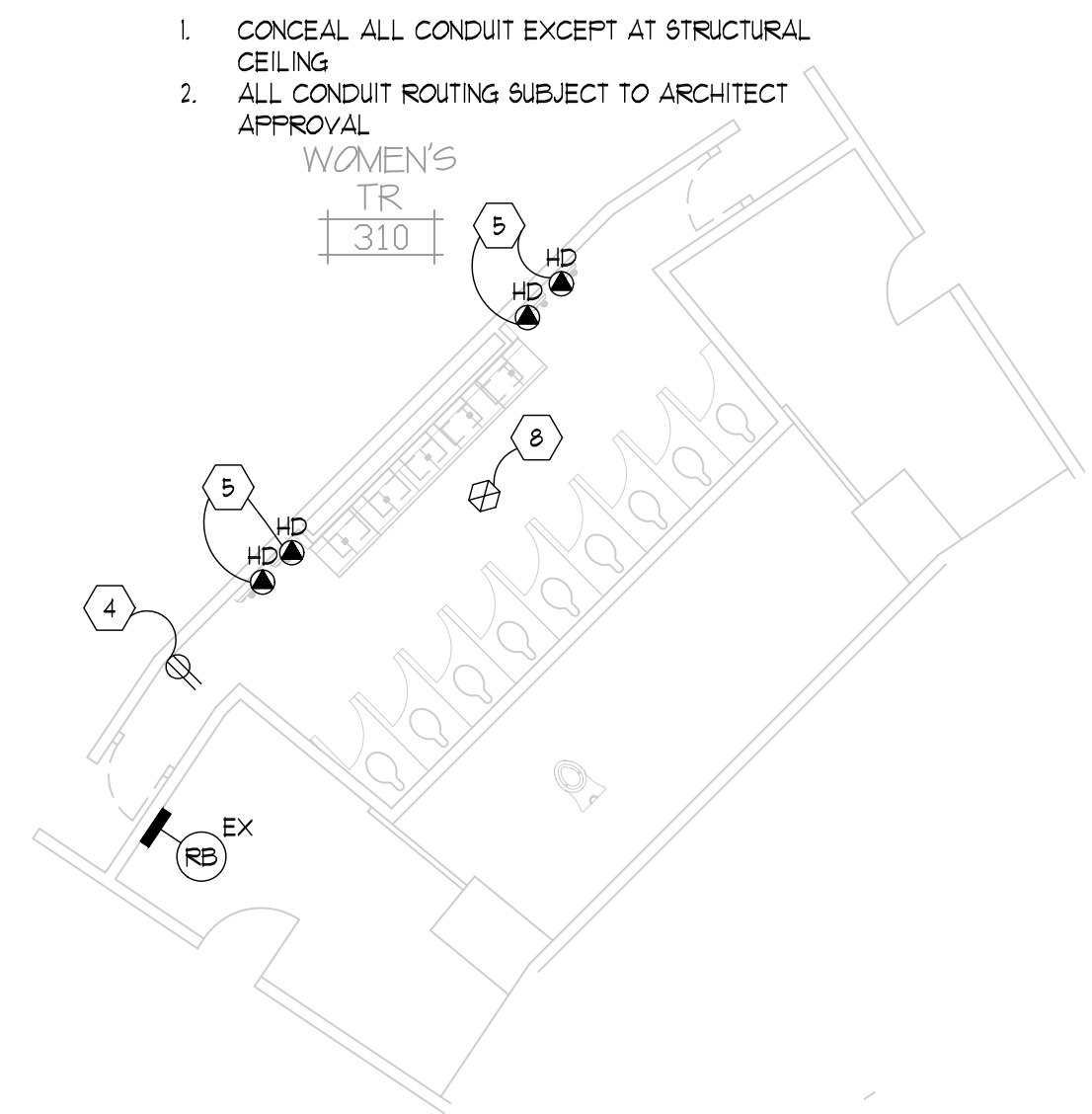
- 1 OWNER WILL REMOVE HAND DRYERS, ELECTRICAL CONTRACTOR TO REMOVE CONDUCTORS
- 2 REMOVE RECEPTACLE. KEEP BOX.
- 3 REMOVE LIGHTING.
- 4 PROVIDE NEW RECEPTACLE AND COVERPLATE IN EXISTING BOX. WIRE TO EXISTING CIRCUIT.
- 5 PROVIDE NEW HAND DRYER OUTLET. WIRE TO BREAKER SERVING ORIGINAL HAND DRYER OUTLET. (2" 1/2" x 1/2" GROUND -1/2" C.) 20A 1 POLE BREAKER. OWNER WILL REINSTALL EXISTING HAND DRYER.
- 6 REMOVE OCCUPANCY SENSOR
- 7 REMOVE SPEAKER
- 8 NEW SPEAKER CONNECT TO EXISTING PA CIRCUIT.
- 9 LOCATE LED DRIVERS IN THIS ROOM NEAR CEILING.

**GENERAL NOTES:**

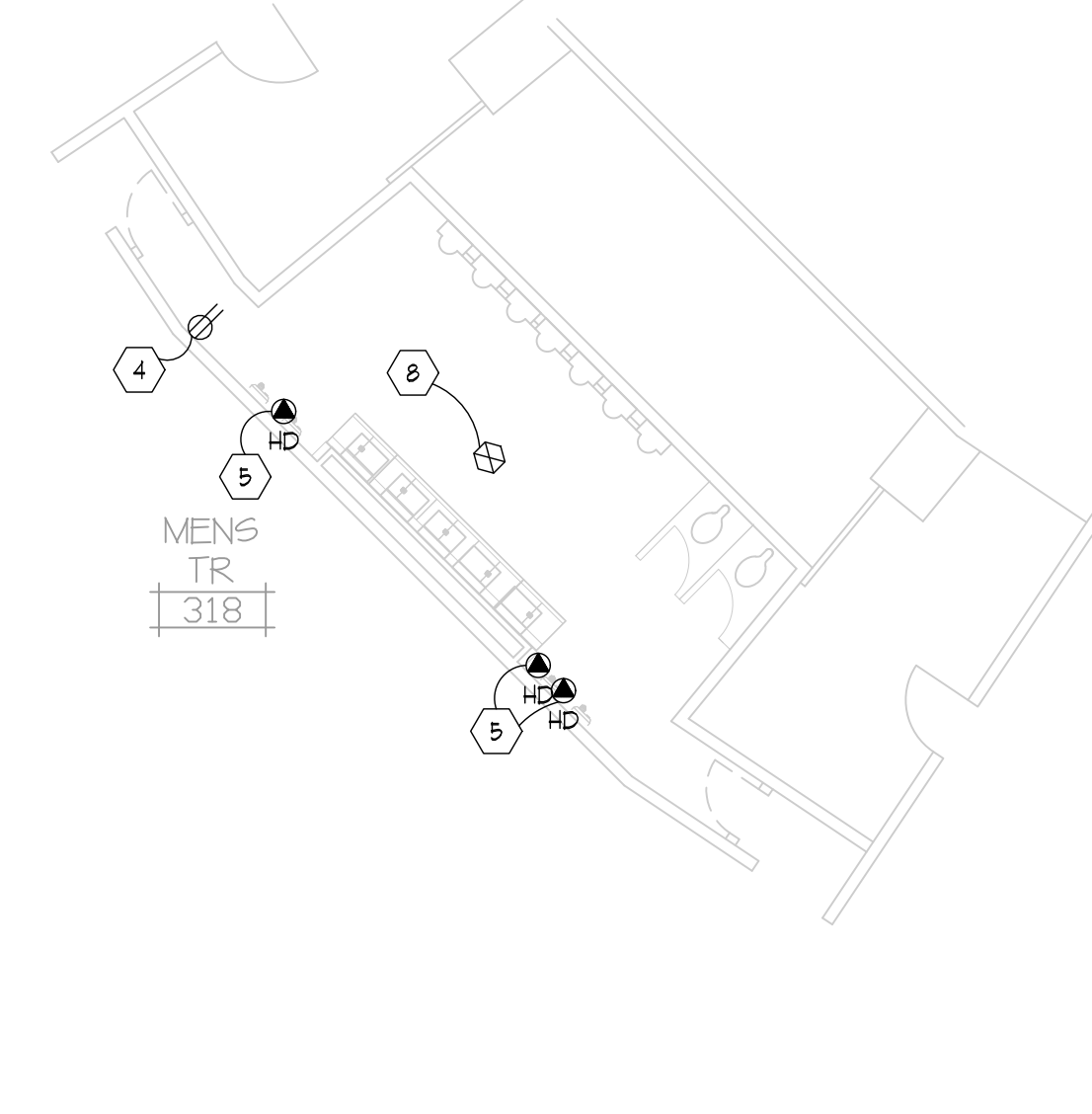
- 1 CONCEAL ALL CONDUIT EXCEPT AT STRUCTURAL CEILING
- 2 ALL CONDUIT ROUTING SUBJECT TO ARCHITECT APPROVAL



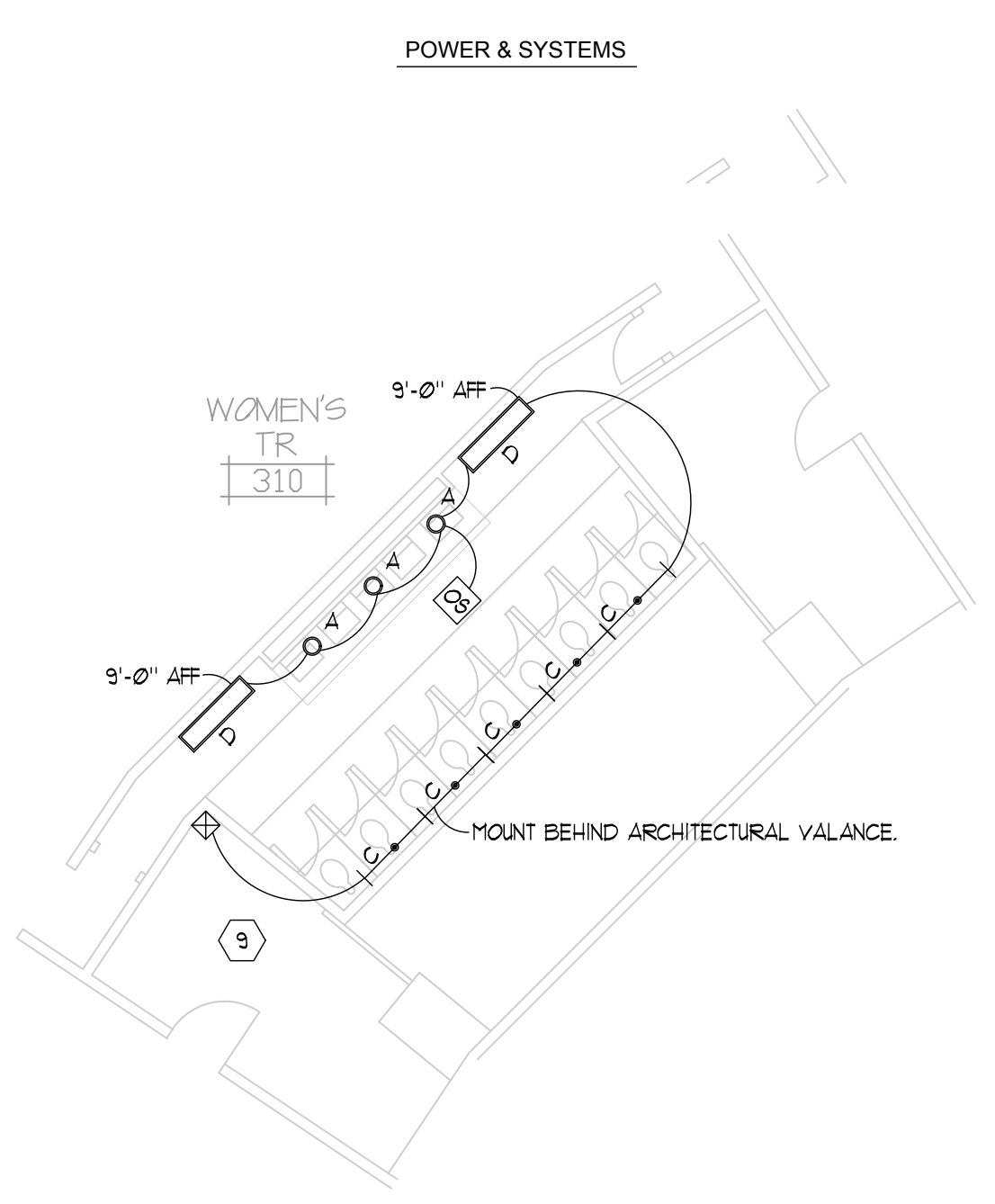
**1** SECOND LEVEL CONCOURSE PLAN  
1" = 20'-0"



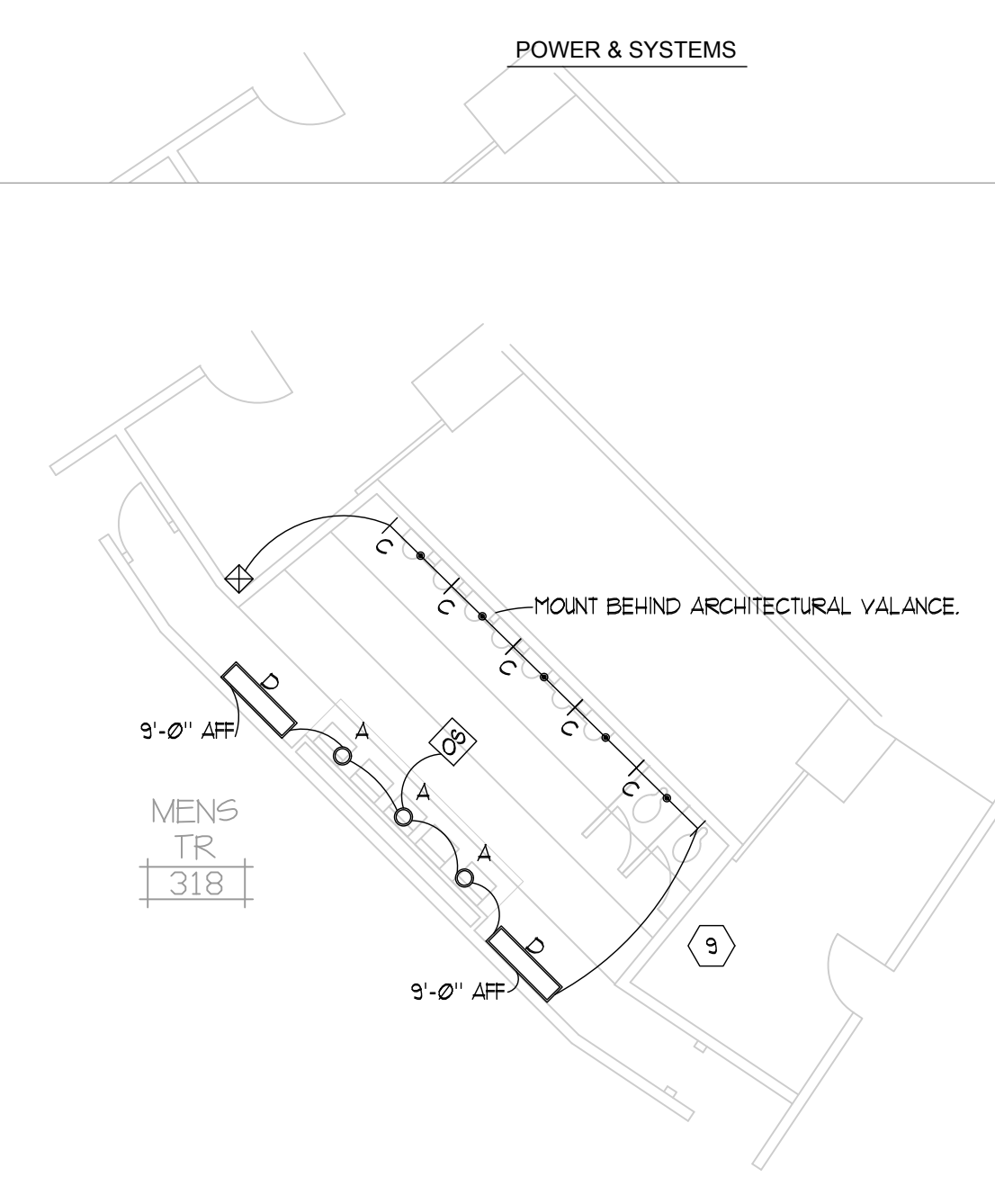
**POWER & SYSTEMS**



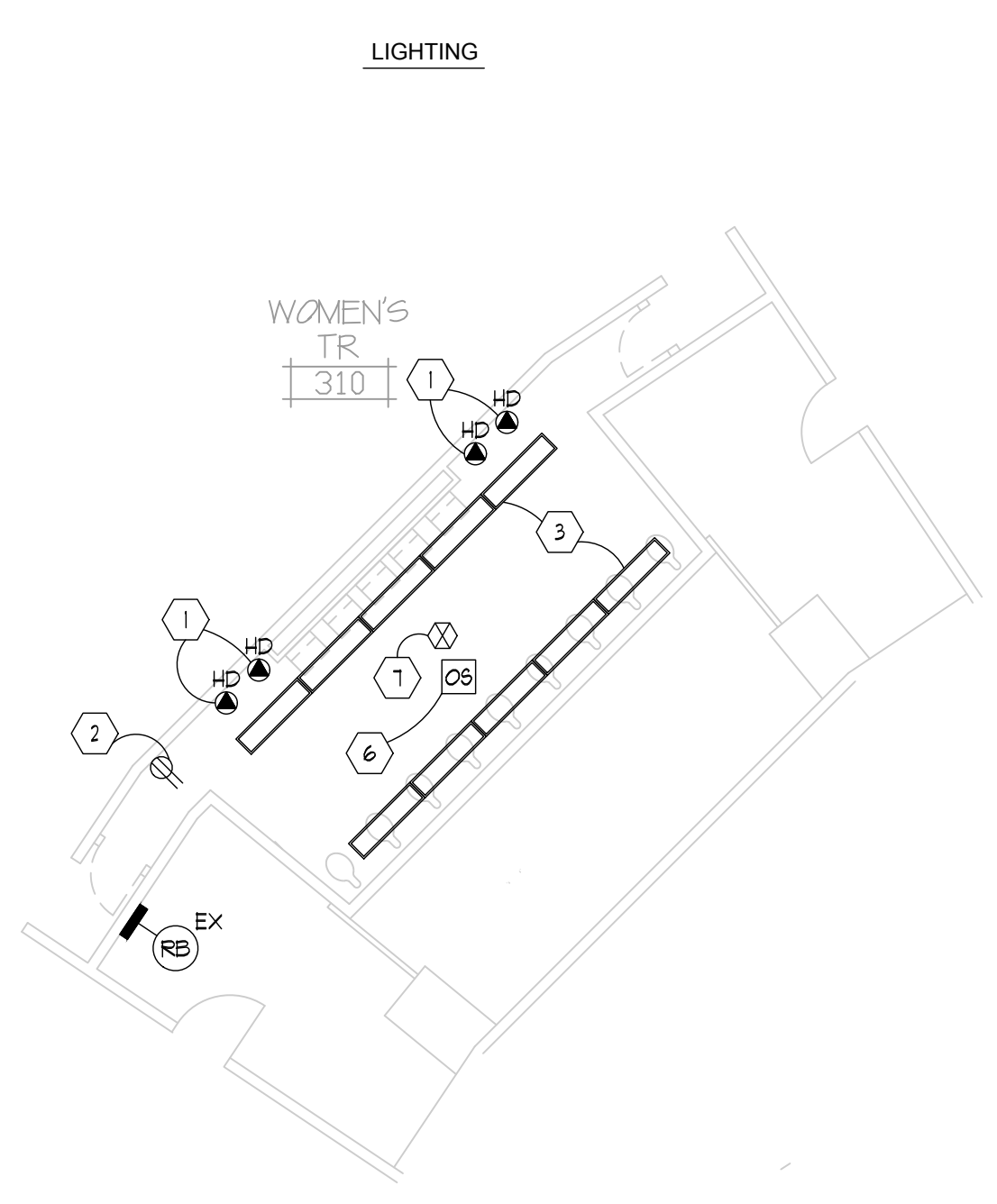
**POWER & SYSTEMS**



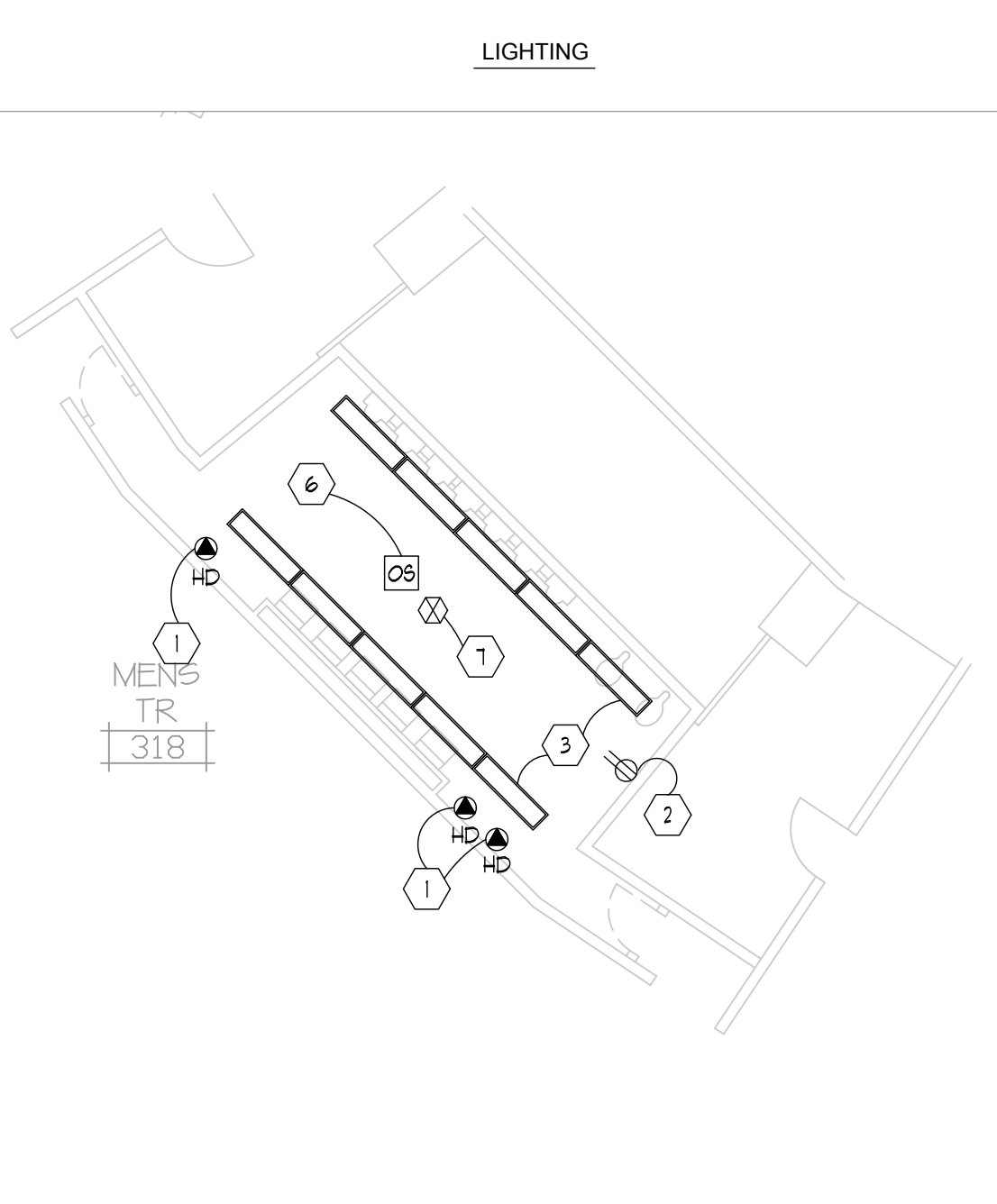
**LIGHTING**



**LIGHTING**



**DEMOLITION**



**DEMOLITION**

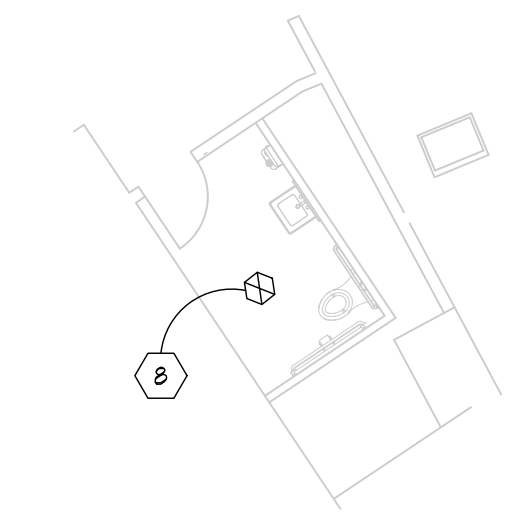
**2** ELECTRICAL PLAN ROOM 310 - 332 SIM OPP HAND  
1/8" = 1'-0"

**3** ELECTRICAL PLAN ROOM 318 - 340 SIM OPP HAND  
1/8" = 1'-0"

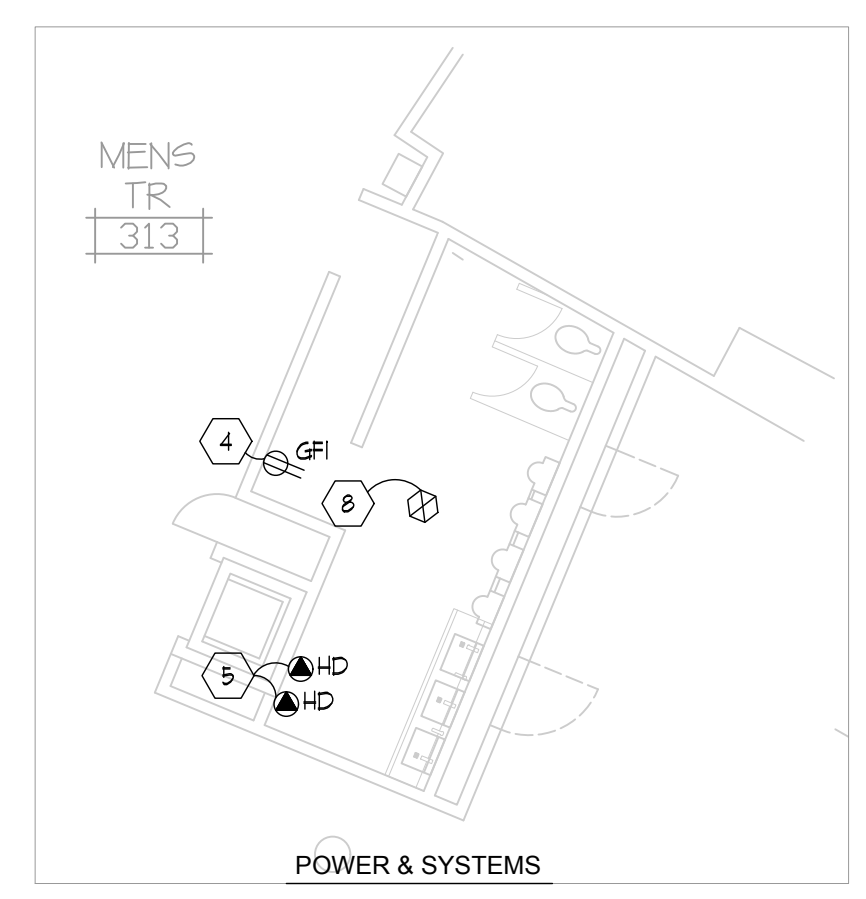
**KEYED NOTES:**

- 1 OWNER WILL REMOVE HAND DRYERS. ELECTRICAL CONTRACTOR TO REMOVE CONDUCTORS
- 2 REMOVE RECEPTACLE. KEEP BOX.
- 3 REMOVE LIGHTING.
- 4 PROVIDE NEW RECEPTACLE AND COVERPLATE IN EXISTING BOX. WIRE TO EXISTING CIRCUIT.
- 5 PROVIDE NEW HAND DRYER OUTLET. WIRE TO BREAKER SERVING ORIGINAL HAND DRYER OUTLET. (2" 12" x 1" 12" GROUND -1/2" C.) 20A 1 POLE BREAKER. OWNER WILL REINSTALL EXISTING HAND DRYER.
- 6 REMOVE OCCUPANCY SENSOR
- 7 REMOVE SPEAKER
- 8 NEW SPEAKER CONNECT TO EXISTING FA CIRCUIT.
- 9 LOCATE LED DRIVERS IN THIS ROOM NEAR CEILING.
- 10 REMOVE RECEPTACLE.
- 11 PROVIDE GFI TAMPER RESISTANT RECEPTACLE. EXTEND ORIGINAL RECEPTACLE CIRCUIT.

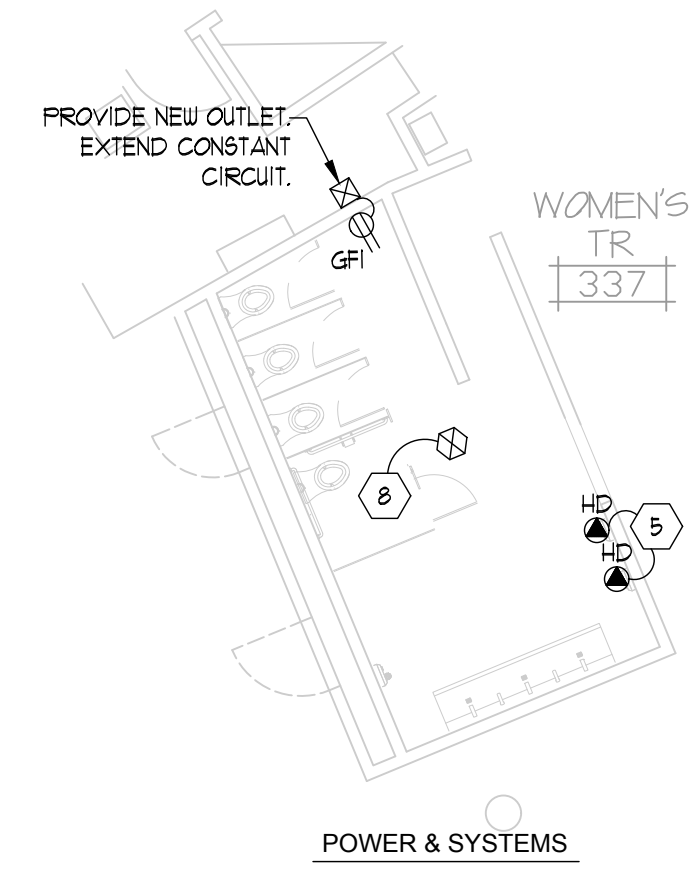
FAMILY TR  
308



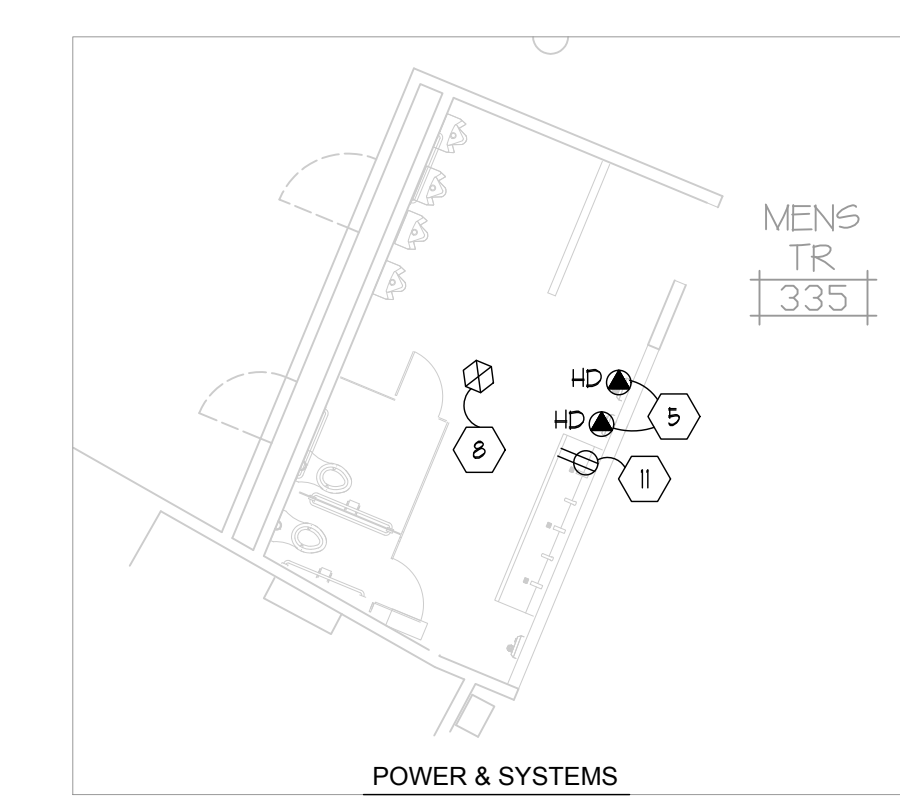
POWER & SYSTEMS



POWER & SYSTEMS



POWER & SYSTEMS

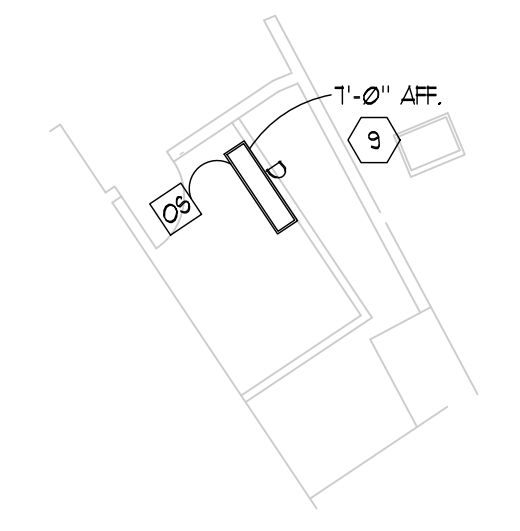


POWER & SYSTEMS

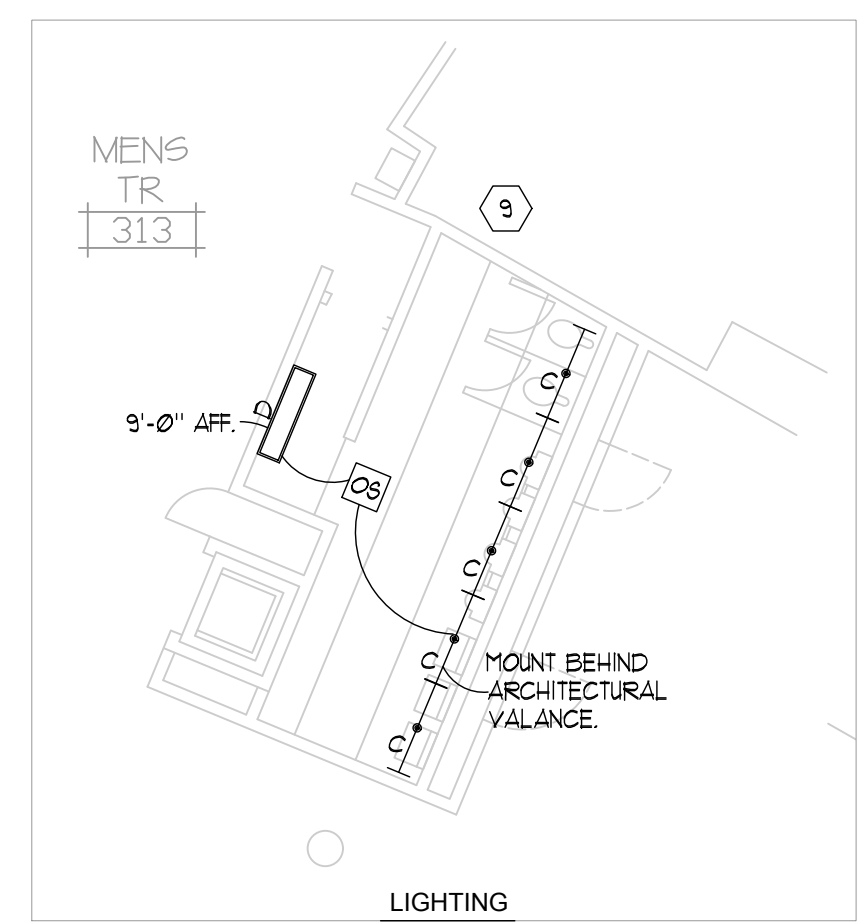
**GENERAL NOTES:**

- 1 CONCEAL ALL CONDUIT EXCEPT AT STRUCTURAL CEILING
- 2 ALL CONDUIT ROUTING SUBJECT TO ARCHITECT APPROVAL

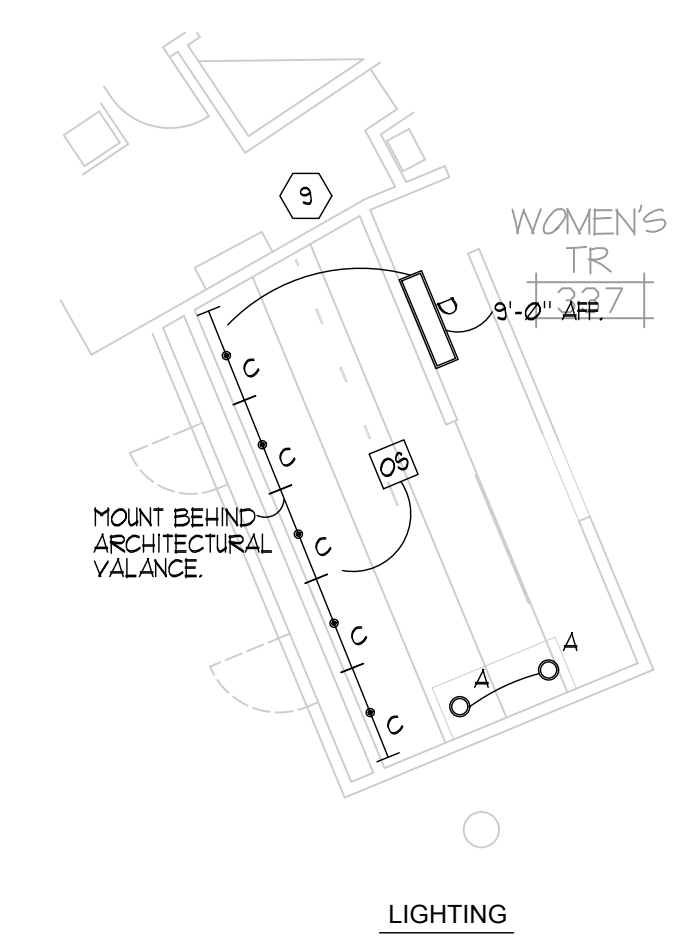
FAMILY TR  
308



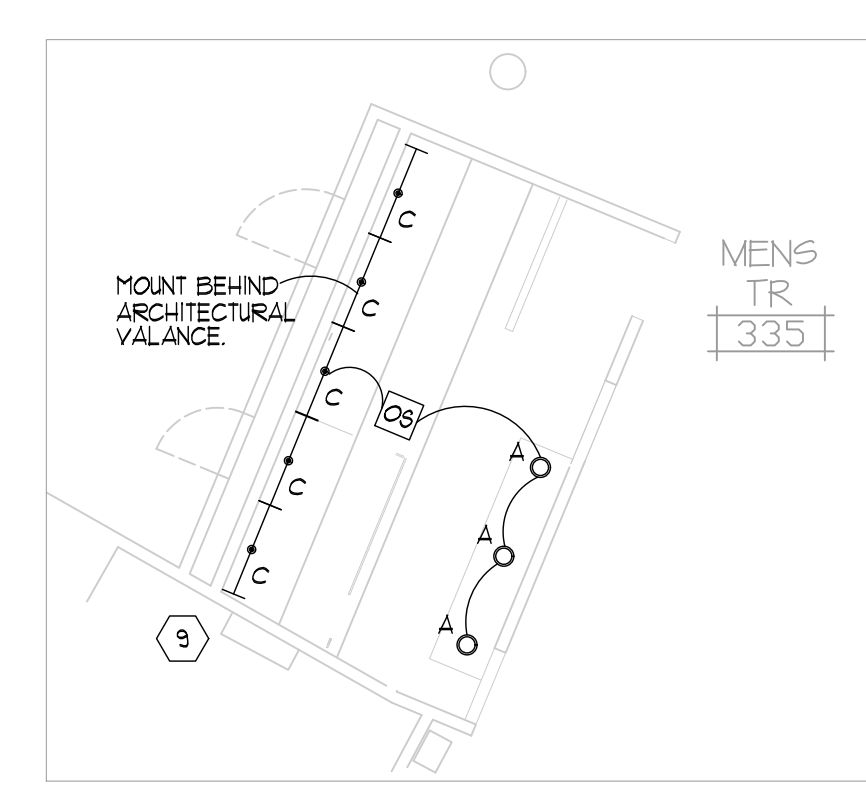
LIGHTING



LIGHTING

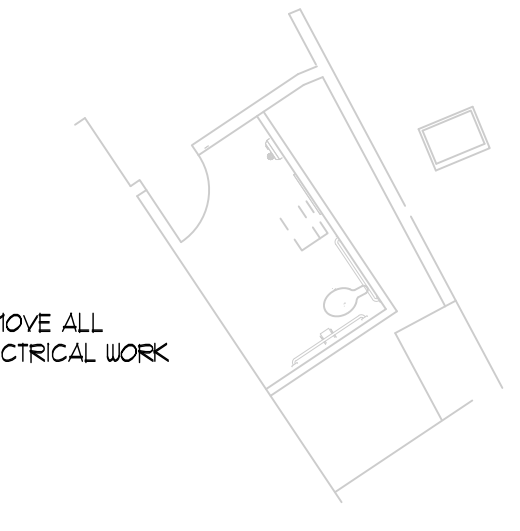


LIGHTING



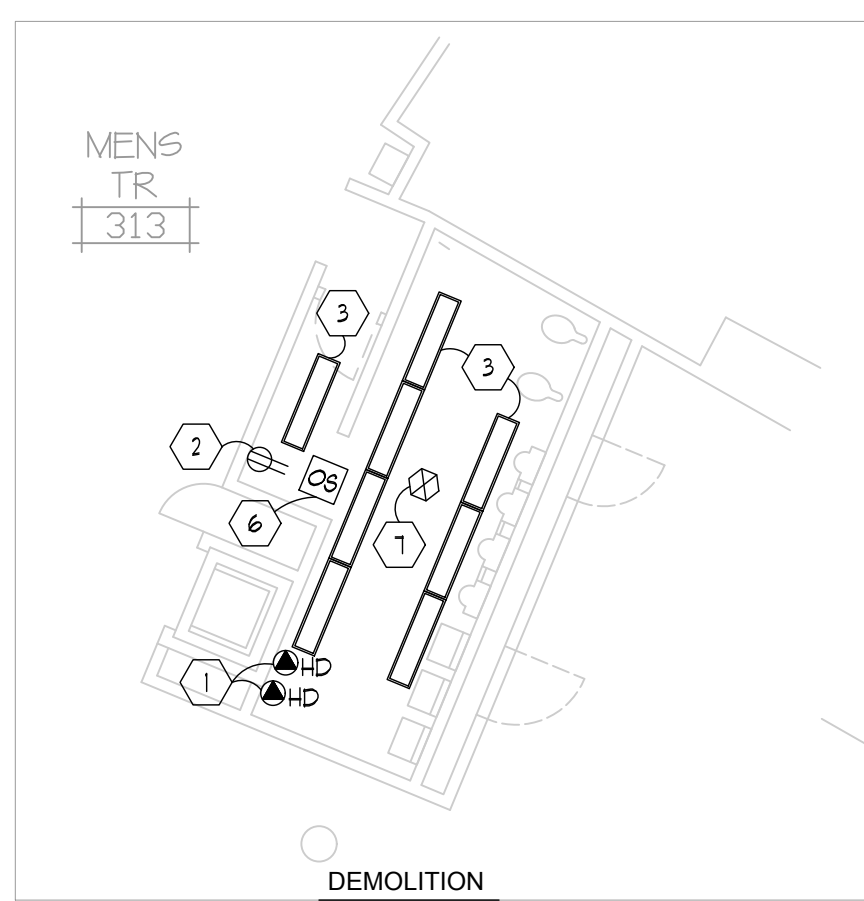
LIGHTING

FAMILY TR  
308

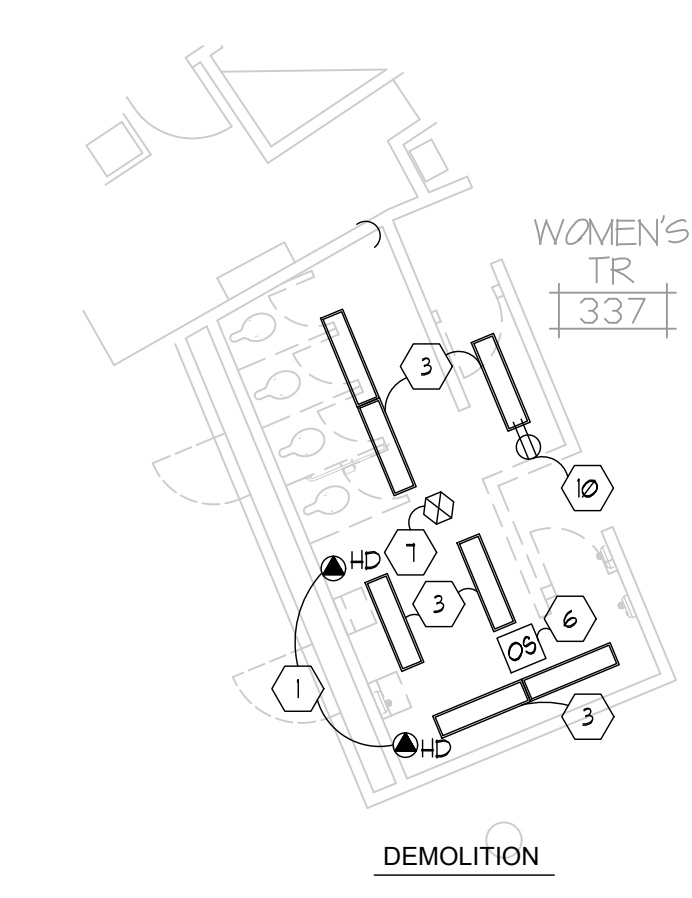


REMOVE ALL ELECTRICAL WORK

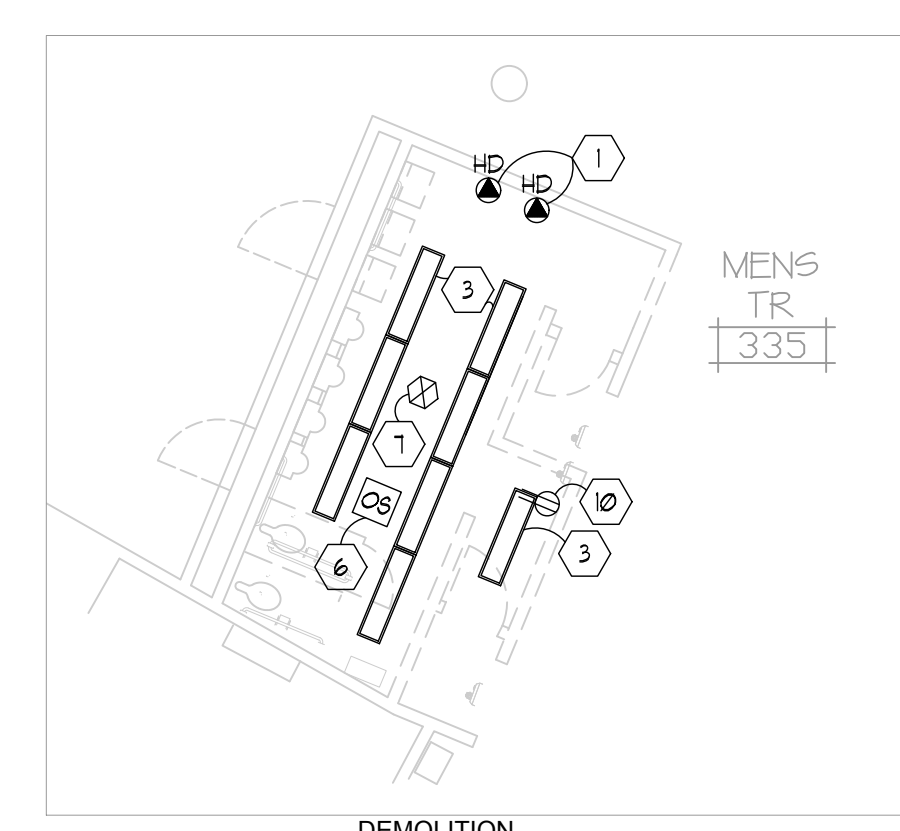
DEMOLITION



DEMOLITION



DEMOLITION



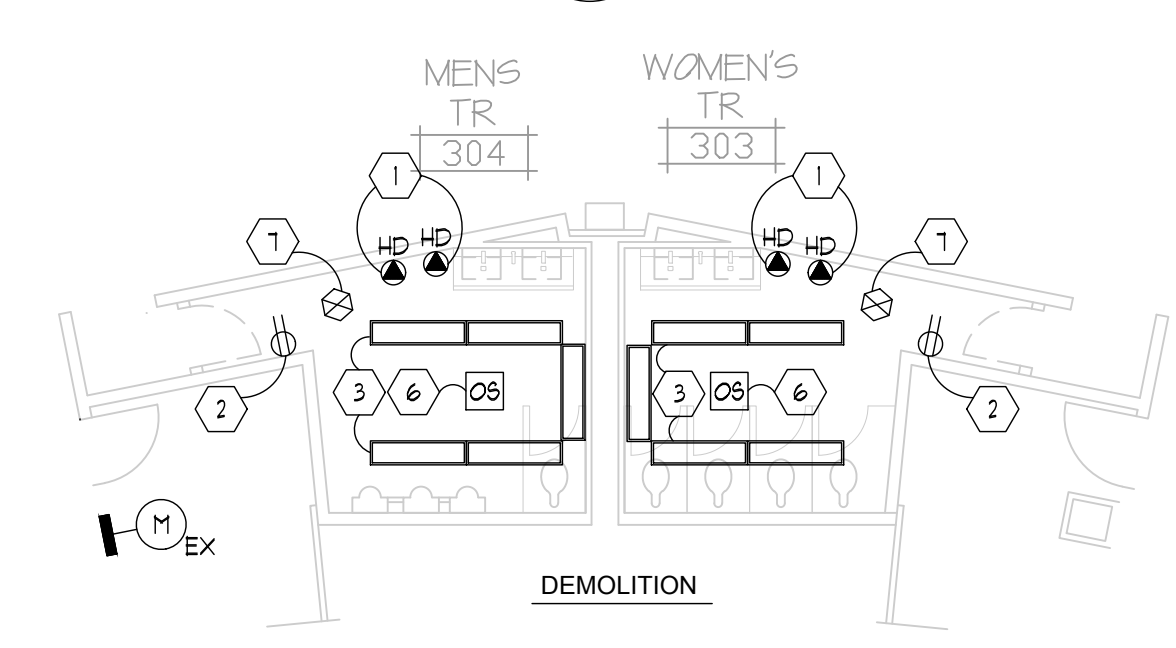
DEMOLITION

2 ELECTRICAL PLAN ROOM 308 - 328 SIM OPP HAND  
E103 1/8" = 1'-0"

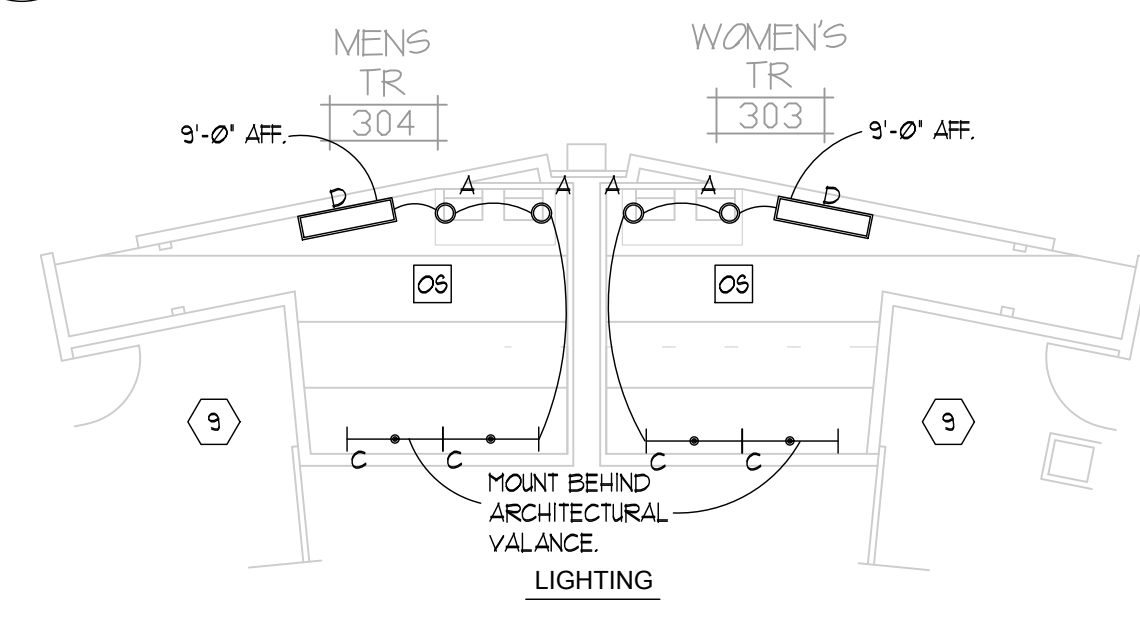
3 ELECTRICAL PLAN ROOM 313  
E103 1/8" = 1'-0"

4 ELECTRICAL PLAN ROOM 337-315 OPP HAND  
E103 1/8" = 1'-0"

5 ELECTRICAL PLAN ROOM 335  
E103 1/8" = 1'-0"

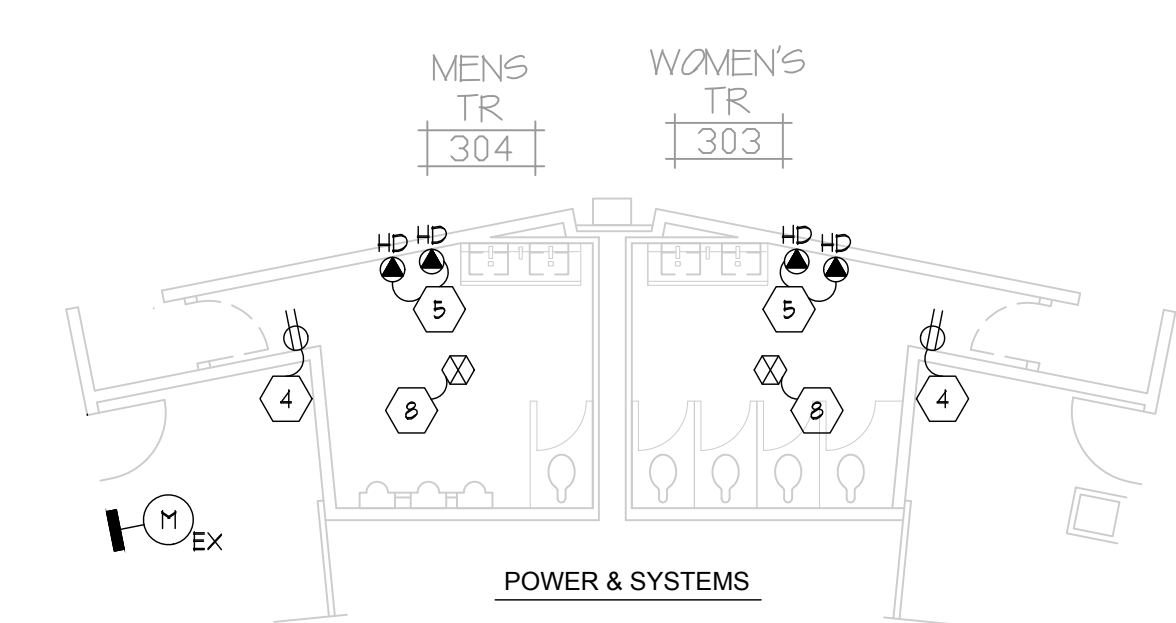


DEMOLITION



LIGHTING

1 ELECTRICAL PLAN ROOMS 303, 304 - 324, 325 SIM OPP HAND  
E103 1/8" = 1'-0"



POWER & SYSTEMS

**PROJECT**  
COLISEUM RESTROOM UPGRADES

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN

**DRAWING**  
SECOND LEVEL CONCOURSE PLAN

**DATE**  
03.28.17