

**2019 TOILET ROOM RENOVATIONS
AT THE
LOWER CAPE MAY REGIONAL HIGH SCHOOL
687 ROUTE 9, CAPE MAY, NEW JERSEY 08204**

PROJECT NUMBER: 18-94H
TYPE OF CONSTRUCTION: IIB
USE GROUP: E

AND

**2019 TOILET ROOM RENOVATIONS
AT THE
RICHARD M. TEITELMAN MIDDLE SCHOOL
687 ROUTE 9, CAPE MAY, NEW JERSEY 08204**

PROJECT NUMBER: 18-94M
TYPE OF CONSTRUCTION: IIB
USE GROUP: E

**FOR THE
LOWER CAPE MAY REGIONAL SCHOOL DISTRICT
687 ROUTE 9
CAPE MAY, NEW JERSEY 08204**



**MECHANICAL, PLUMBING,
ELECTRICAL ENGINEER:**

MULHERN ENGINEERS
321 SOUTH YORK ROAD, HATBORO, PA 19040
PHONE: 215-293-9900 FAX: 215-293-9214

STRUCTURAL ENGINEER:

ORNDORF & ASSOCIATES, INC.
8600 WEST CHESTER PIKE, SUITE 201, UPPER DARBY, PA 19082
PHONE: 610-896-4500 FAX: 610-896-4503

ENVIRONMENTAL CONSULTANTS:

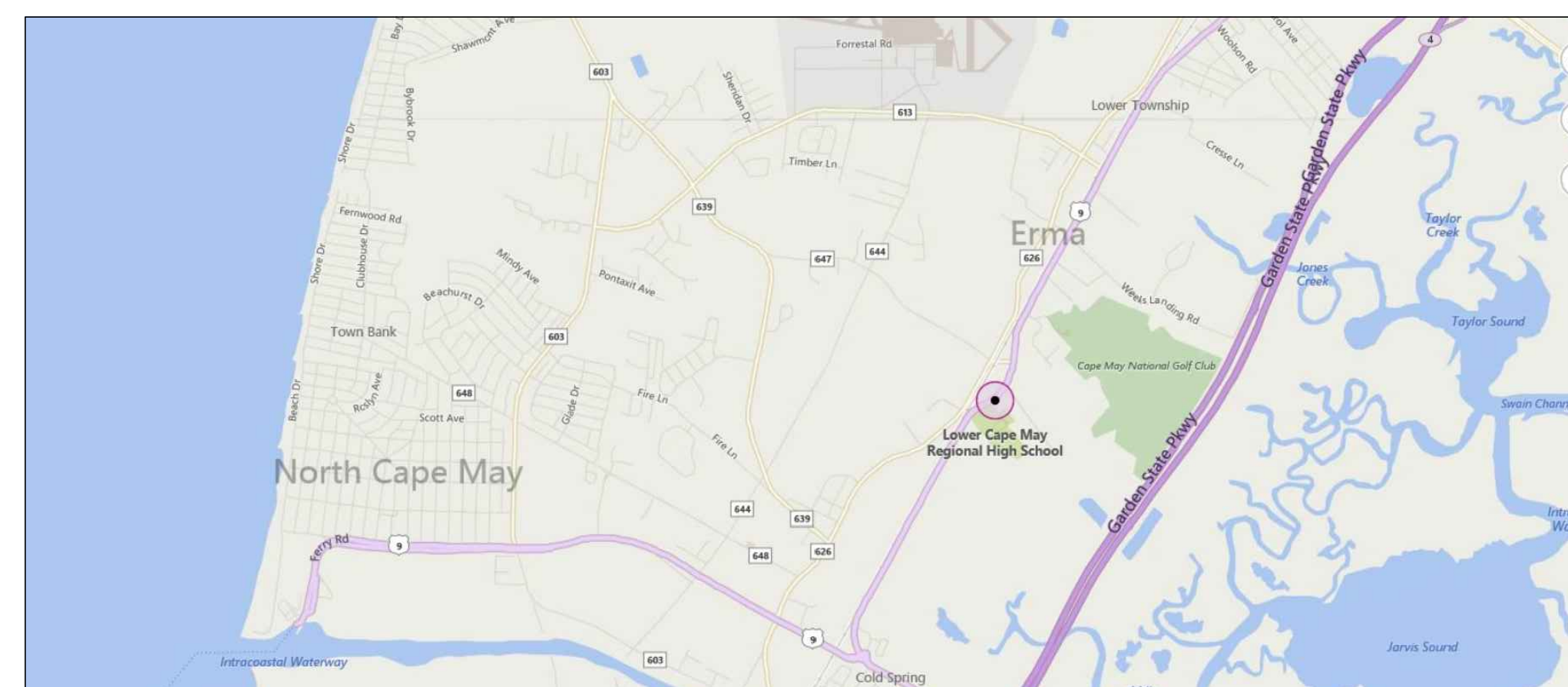
AHERA CONSULTANTS INC.
P.O. BOX 385, OCEANVILLE, NJ 08231-0385
PHONE: 609-652-1833 FAX: 609-652-1140

2019 TOILET ROOM RENOVATIONS AT THE LOWER CAPE MAY REGIONAL HIGH SCHOOL 687 ROUTE 9, CAPE MAY, NEW JERSEY 08204

FOR THE LOWER CAPE MAY REGIONAL SCHOOL DISTRICT 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204

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LOWER CAPE MAY REGIONAL HIGH SCHOOL	
No.	TOILET ROOM RENOVATIONS INDEX OF DRAWINGS
	COVER SHEET & INDEX
ARCHITECTURAL	
HA-1	DEMOLITION PLAN, FLOOR PLAN
HA-2	REFLECTED CEILING PLAN, ENLARGED FLOOR PLAN
HA-3	TOILET ROOM ELEVATIONS
HA-4	ROOM FINISH SCHEDULE, WALL TYPES
HA-5	DOOR SCHEDULE, DETAILS
MECHANICAL	
HM-1	MECHANICAL ENLARGED TOILET PLANS
HM-2	MECHANICAL LEGEND, SCHEDULES & NOTES
PLUMBING	
HP-1	PLUMBING ENLARGED TOILET PLANS
HP-2	PLUMBING RISER DIAGRAMS, SCHEDULES, NOTES
ELECTRICAL	
HE-1	ELECTRICAL FLOOR PLAN
HE-2	ELECTRICAL NOTES & DETAILS



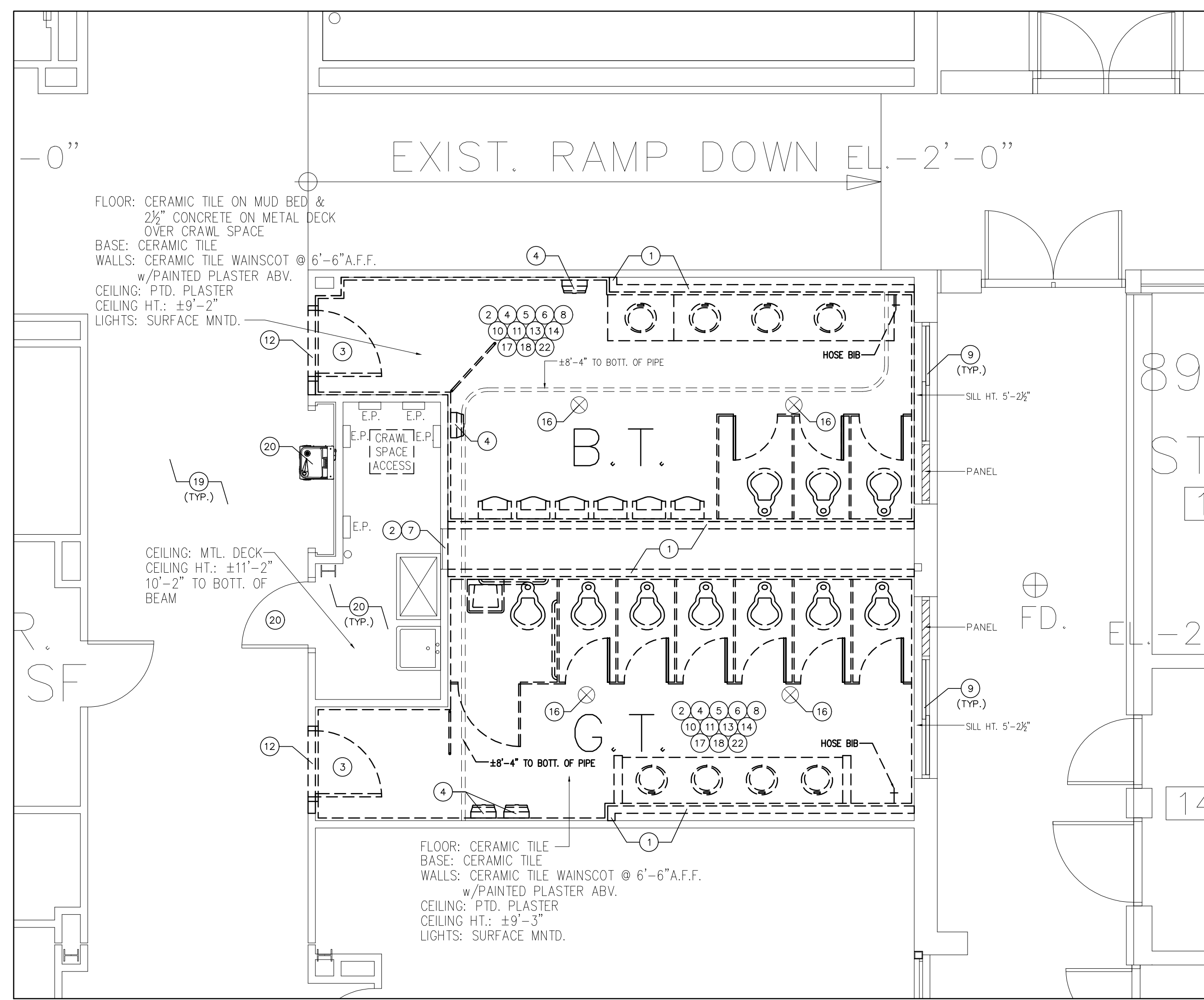
MAP LOCATION



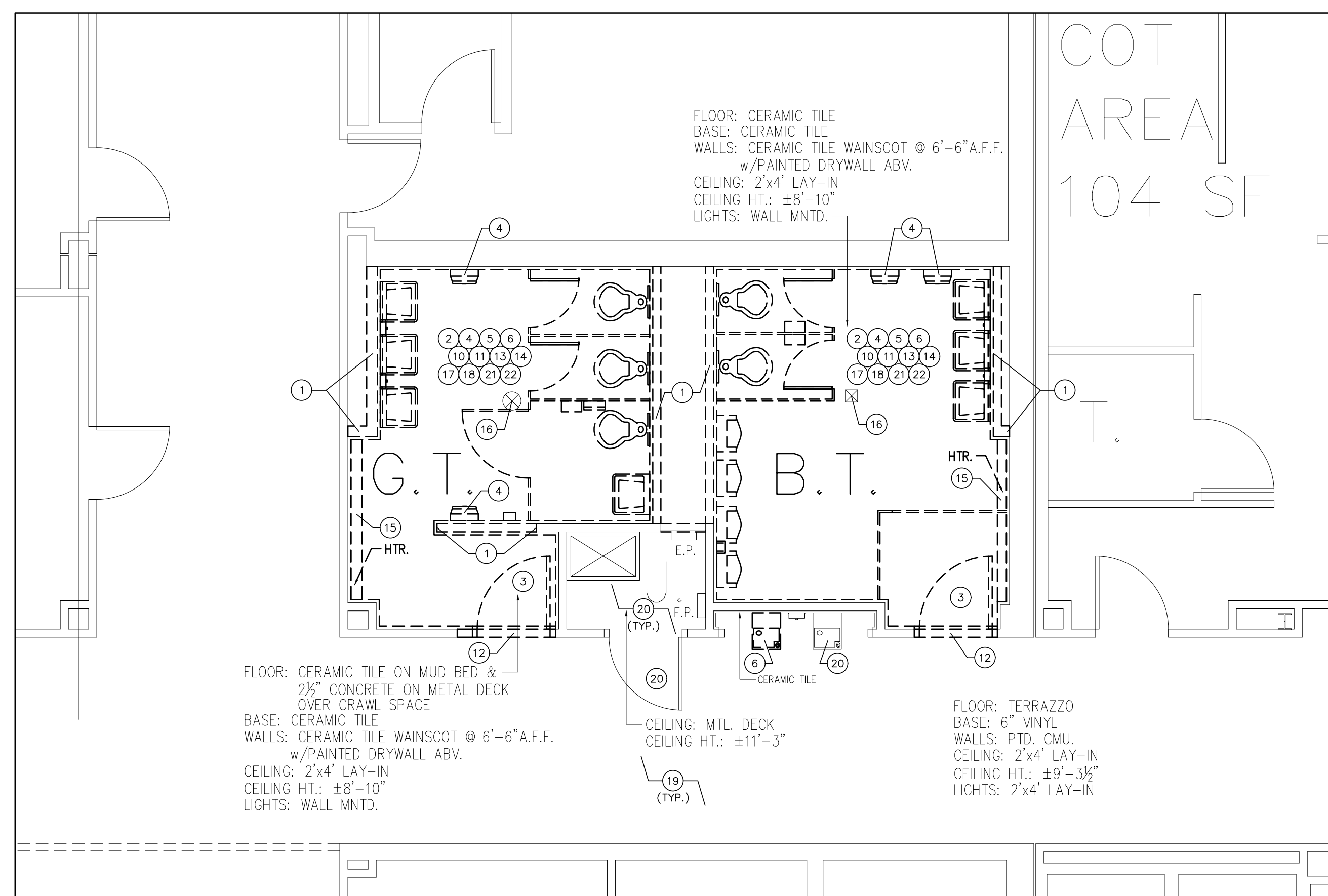
AERIAL VIEW

DESIGN CODES:

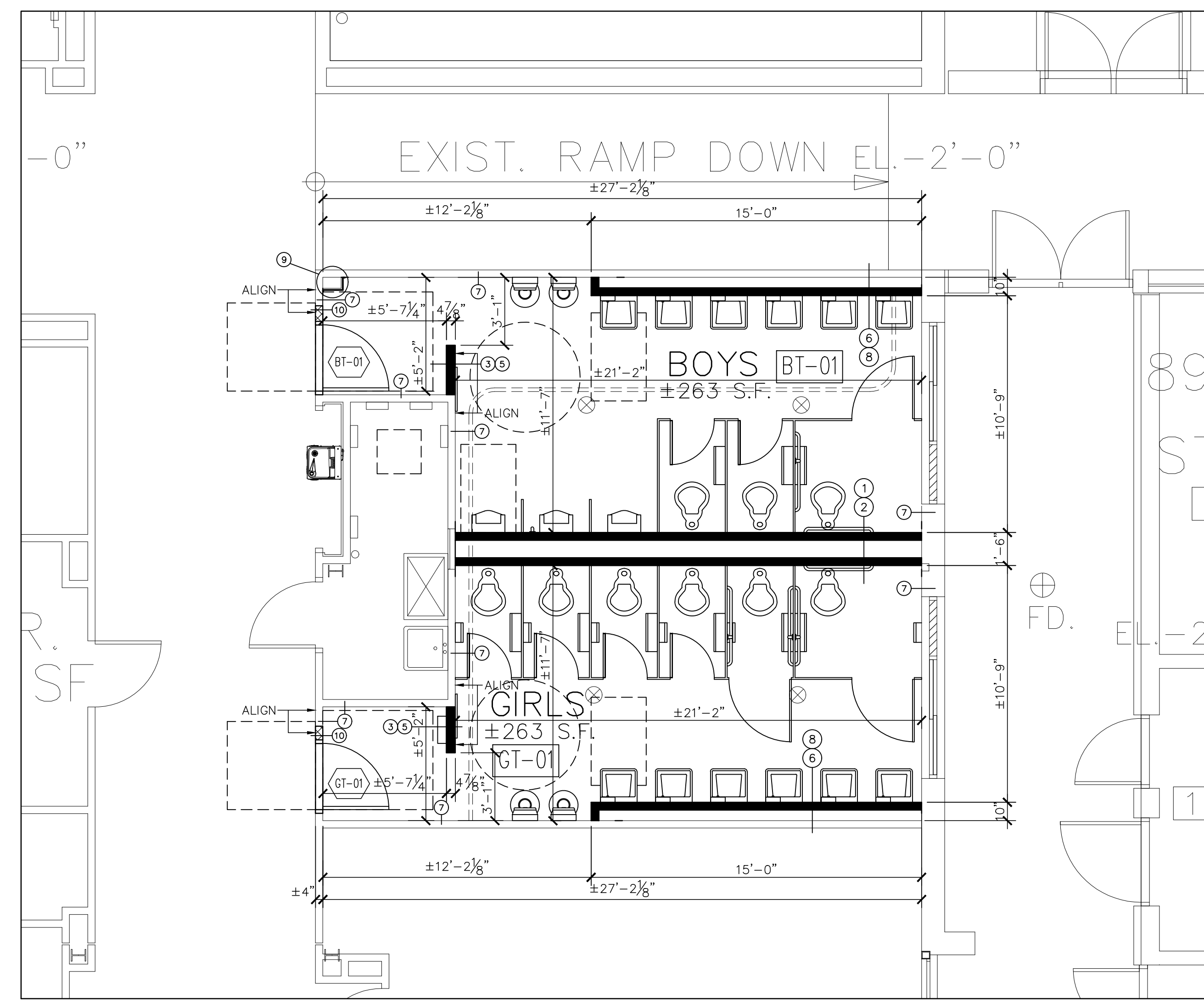
INTERNATIONAL BUILDING CODE/2015 / NJ EDITION
INTERNATIONAL MECHANICAL CODE/2015
INTERNATIONAL FUEL GAS CODE/2015
NATIONAL STANDARD PLUMBING CODE/2009
ASHRAE 2013-90.1 ENERGY STANDARD
NATIONAL ELECTRICAL CODE(NFPA 70)/2014
INTERNATIONAL FIRE CODE/2015
ELEVATOR SUBCODE: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
BARRIER FREE SUBCODE: ICC/ANSI A117.1-2009
N.J. REHAB CODE 5:23-6



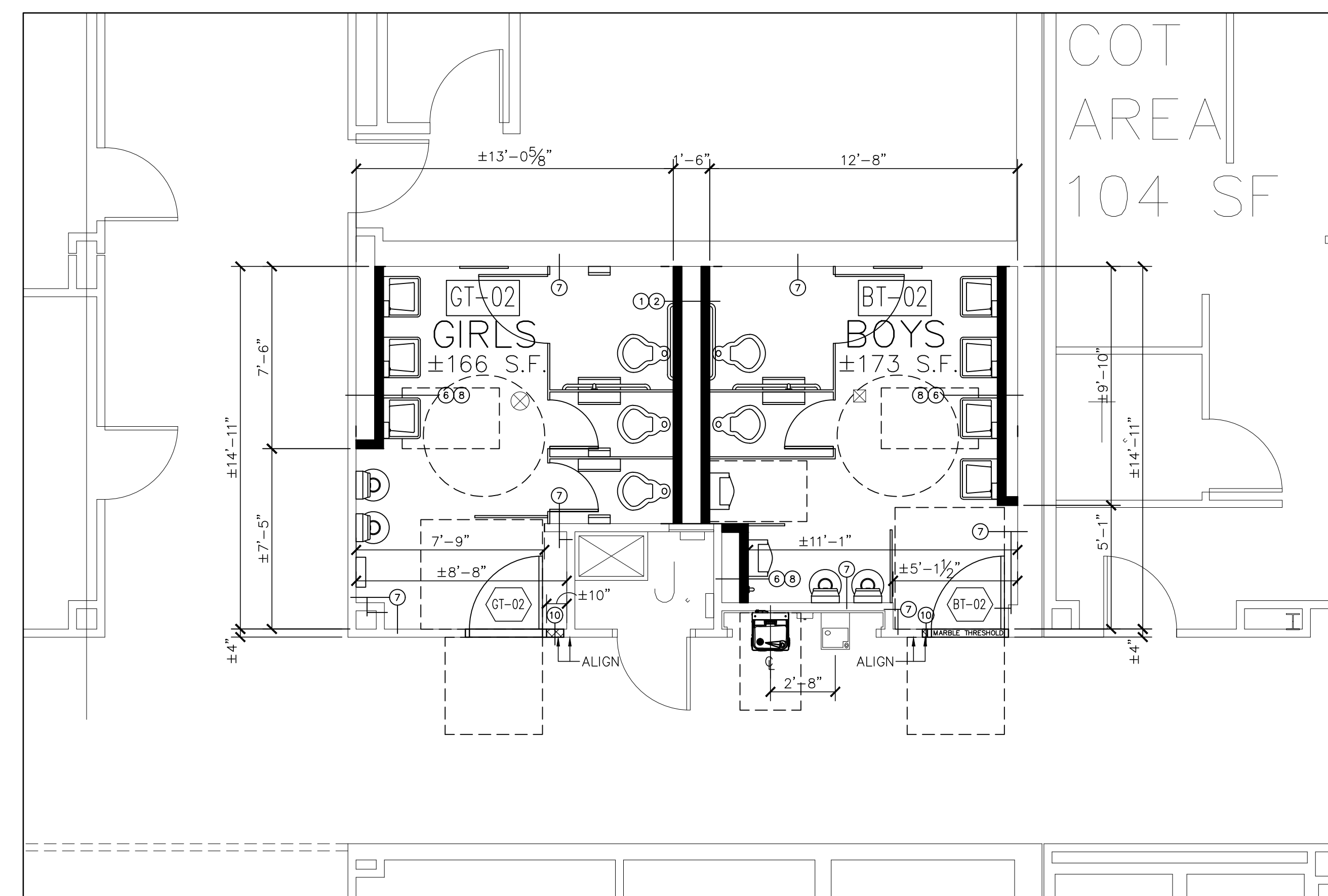
1 EXISTING/DEMO ENLARGED GANG TOILETS
SCALE: 1/4"=1'-0"



2 EXISTING/DEMO ENLARGED GANG TOILETS
SCALE: 1/4"=1'-0"



1a PROPOSED ENLARGED GANG TOILETS
SCALE: 1/4"=1'-0" REFER TO HA-3 FOR ACCESSORY & MATERIAL LISTS.



2a PROPOSED ENLARGED GANG TOILETS
SCALE: 1/4"=1'-0" REFER TO HA-3 FOR ACCESSORY & MATERIAL LISTS.

LEGEND

- METAL STUD PARTITION
- MASONRY WALL & PARTITION
- ⊙ FOR WALL TYPES & TYP. DETAILS SEE DWGS. HA-4
- ⊙ FOR DOOR TYPES & DETAILS SEE DWGS. HA-5

FOR EXISTING/DEMO PLANS & NOTES, SEE SHEET HA-1.

LEGEND

- EXISTING TO REMAIN
- - - - EXISTING TO BE REMOVED

REFER TO SHEET HA-1 FOR DEMOLITION AND RENOVATION NOTES.

DEMOLITION/ RENOVATION NOTES:

- ⊙ REMOVE EXISTING WALLS WHERE INDICATED TO SUIT NEW LAYOUT. PATCH FLOOR & WALLS LEVEL w/MATERIAL TO MATCH ADJACENT, TYP.
- ⊙ INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. (SCORE PATCHED AREA TO MATCH EXISTING COURSING). PRIME & PAINT PER MANUFACTURERS SPECIFICATIONS. SEE FINISH SCHEDULE FOR BALANCE OF INFORMATION AND ARCHITECTURALS FOR NEW LAYOUT.
- ⊙ EXISTING DOOR & FRAME TO BE REMOVED. TURN OVER ALL HARDWARE TO OWNER, TYP. CUT OUM TO ENLARGE OPENING. TEMPORALLY SUPPORT OPENING. PROVIDE NEW LINTEL, SEE STRUCTURAL DWGS. FOR SIZE. INSTALL NEW DOOR & FRAME. SEE DOOR SCHEDULE FOR BALANCE OF INFORMATION.
- ⊙ ELECTRICAL CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE LIGHT FIXTURES, SWITCHES, FIRE ALARM, WALL OUTLETS, POWER POLES, EMERGENCY POWER SHUT OFFS, ELECTRICAL PANELS, ETC. AND ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO ELECTRICAL DWGS. RELOCATE & RECONNECT ELECTRICAL ITEMS PER OWNERS' DIRECTION. THE RELOCATION TO INCLUDE ANY RE-WIRING, POWER AND/OR SWITCHES.
- ⊙ H.V.A.C. CONTRACTOR TO DISCONNECT AND REINSTALL MECHANICAL EQUIPMENT, INCLUDING UNIT VENTILATOR, RADIATION, DUCT WORK, SUPPLY REGISTERS, RETURN GRILLE, ETC. AND ALL APPURTENANCES. WHERE EQUIPMENT IS TO BE RELOCATED, RELOCATE & RECONNECT EXISTING DUCT. REFER TO MECHANICAL PLANS FOR INFORMATION. REGARDING MECHANICAL EQUIPMENT, DUCTWORK, DEVICES, ETC. TO REMAIN, REPLACED OR BE RELOCATED.
- ⊙ PLUMBING CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO PLUMBING DRAWINGS. THESE ITEMS INCLUDE ANY DRINKING FOUNTAINS, WATER CLOSET, HOSE BIBS, SINKS, ETC. G.C. TO PATCH ALL HOLES TO SMOOTH SURFACE TO MATCH ADJACENT AFTER RENOVATION WORK IS DONE. PLUMBING CONTRACTOR TO COORDINATE LOCATION OF NEW FIXTURES WITH ENLARGED TOILET PLANS.

- ⊙ NOT USED
- ⊙ EXISTING PLASTER CEILING SYSTEM (NON-ASBESTOS CONTAINING ASSEMBLY) TO REMAIN. ALL EXISTING LIGHTING & CEILING MOUNTED DEVICES NOT INDICATED TO BE REPLACED ARE TO BE TEMPORARILY SUPPORTED AND REINSTALLED IN NEW CEILING ASSEMBLY. PROVIDE NEW CEILING TILE/GRID. PROVIDE NEW LIGHTING OR RE-INSTALL EXISTING & OTHER ITEMS ON NEW CEILING AT ORIGINAL LOCATIONS. (SEE ARCH. DRAWINGS FOR FINAL ELEVATION. SEE ELECTRICAL DRAWINGS FOR ALL ELEC. WORK.)
- ⊙ EXISTING WINDOW SYSTEM TO REMAIN. PROTECT DURING RENOVATION. CAREFULLY REMOVE CERAMIC TILE & MASTIC FROM AROUND WINDOW & SILL. IF EXISTS, DOWN TO SMOOTH & LEVEL SURFACE. PREP & APPLY FINISH AT TILE LOCATIONS. WHERE EXISTING WINDOW WOOD TRIM EXISTS, IT IS TO BE PATCHED & PAINTED, TYP.
- ⊙ REMOVE EXISTING TOILET ACCESSORIES WHERE INDICATED. IF NOT RE-INSTALLED ACCORDING TO NEW LAYOUT, ITEMS ARE TO BE TURNED OVER TO SCHOOL. PROVIDE WALL PLUGS AND/OR PATCH HOLES WITH TILE TO MATCH ADJACENT, TYP. SEE ENLARGED TOILET PLANS FOR LAYOUT & PLUMBING DWGS.
- ⊙ PROVIDE NEW EPOXY RESIN FLOORING WITH COVED BASE, SEE SPECS.
- ⊙ REMOVE EXISTING MARBLE THRESHOLD, PROVIDE NEW.
- ⊙ AT ALL TILE LOCATIONS: REMOVE EXISTING CERAMIC TILE FLOOR. IF MUD BED EXISTS, IT IS TO BE REMOVED & REPLACED. PREP AREA FOR NEW INSTALLATION OF THE NEW EPOXY FLOOR & BASE.
- ⊙ REMOVE ALL EXISTING TOILET ROOM SCREEN/PARTITIONS.
- ⊙ REMOVE EXISTING BASEBOARD HEAT. SEE MECHANICAL DWGS. FOR FURTHER INFORMATION.
- ⊙ EXISTING FLOOR DRAIN AND/OR CLEAN OUT. SEE PLUMBING DRAWINGS FOR SCOPE OF WORK.
- ⊙ REMOVE WALL MOUNTED GRAB BARS, TURN OVER TO OWNER. IF APPLICABLE, PATCH HOLES IN WALLS w/MATERIALS TO MATCH ADJACENT, TYP.
- ⊙ REMOVE EXISTING DISPENSERS NOT USED IN NEW LAYOUT. TURN OVER TO OWNER.
- ⊙ EXISTING FLOOR FINISH TO REMAIN. REPAIR ALL DAMAGES CAUSED BY CONSTRUCTION ACTIVITIES IN KIND USING COMPATIBLE MATERIALS.
- ⊙ EXISTING TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- ⊙ REMOVE EXISTING LAY-IN CEILING SYSTEM (NON-ASBESTOS CONTAINING ASSEMBLY) IN ITS ENTIRETY. ALL EXISTING LIGHTING & CEILING MOUNTED DEVICES NOT INDICATED TO BE REPLACED ARE TO BE TEMPORARILY SUPPORTED AND REINSTALLED IN NEW CEILING ASSEMBLY. PROVIDE NEW CEILING TILE/GRID. PROVIDE NEW LIGHTING OR RE-INSTALL EXISTING & OTHER ITEMS ON NEW CEILING AT ORIGINAL LOCATIONS. (SEE ARCH. DRAWINGS FOR FINAL ELEVATION. SEE ELECTRICAL DRAWINGS FOR ALL ELEC. WORK.)
- ⊙ REMOVE EXISTING WALL CERAMIC TILE & MASTIC TO SMOOTH & LEVEL FINISH. PROVIDE NEW FULL-HEIGHT FRP WALLS IN ENTIRE ROOM. SEE FINISH SCHEDULE, TOILET ELEVATIONS & SPECS., TYP.

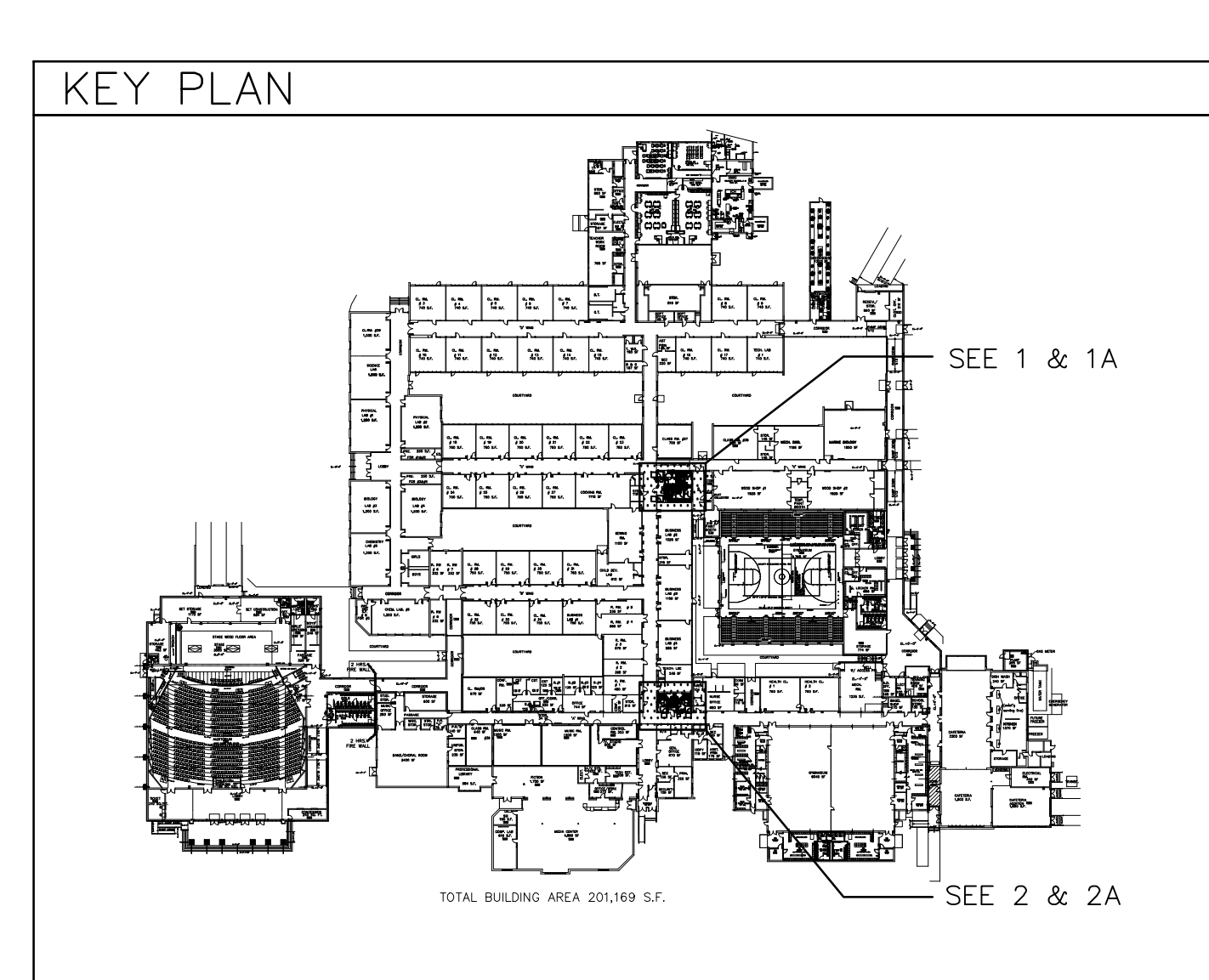
GENERAL DEMOLITION/ RENOVATION NOTES:

THE GENERAL CONTRACTOR SHALL REMOVE ALL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO LOCKERS, DOORS AND FRAMES, WINDOWS AND FRAMES, CEILING SYSTEM, PARTITIONS, CARPET, STOREFRONT WINDOW SYSTEM, GUARDRAILS, HANDRAILS, TACK STRIPS, SHELVING/ CASEWORK AND TOILET PARTITIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ARCHITECT FOR FURTHER CLARIFICATIONS.

THE PLUMBING CONTRACTOR SHALL DISCONNECT AND CAP ALL PLUMBING ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, SHOWERS AND CONTROLS, SUPPLY LINES FOR HOT AND COLD WATER, EYE WASH STATIONS, WASH BASINS, UNITED SPRINKLER SYSTEM AND AIR COMPRESSOR SUPPLY LINES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE PLUMBING ENGINEER FOR FURTHER CLARIFICATIONS.

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND CAP ALL ELECTRICAL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO LIGHT FIXTURES, SWITCHES, WALL OUTLETS, WIRING/ CONDUIT AND TELEPHONE SYSTEMS. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ELECTRICAL ENGINEER FOR FURTHER CLARIFICATIONS.

THE H.V.A.C. CONTRACTOR SHALL DISCONNECT AND CAP ALL H.V.A.C. ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.



ISSUED FOR BID: 01-29-19

Garripoti Architects
A Professional Corporation of Architects and Planners
713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-6200

2019 Toilet Room Renovations at the Lower Cape May Regional High School
667 ROUTE 9 CAPE MAY, NEW JERSEY 08204

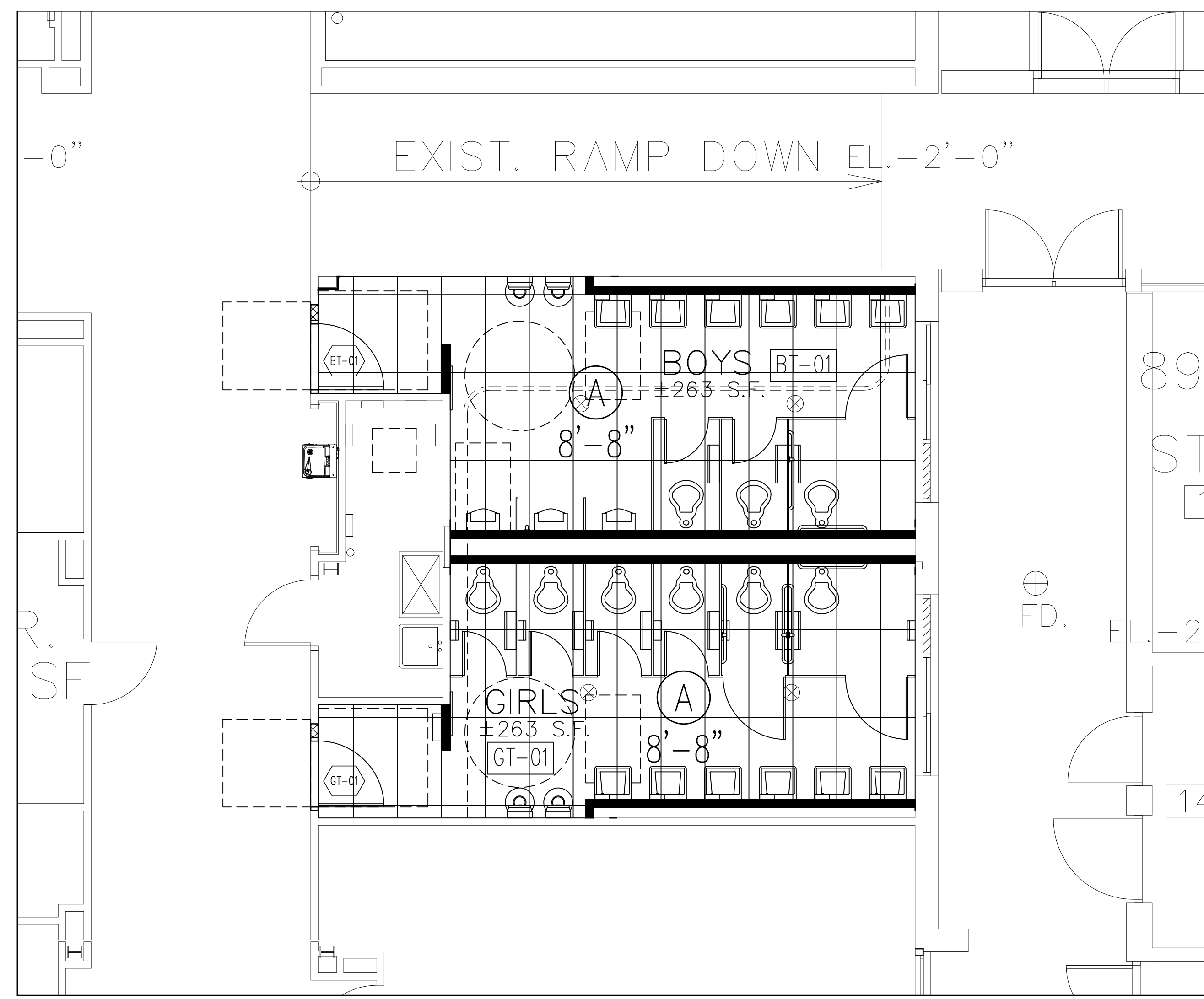
Lower Cape May Regional School District
CAPE MAY, NEW JERSEY 08204

REVISIONS

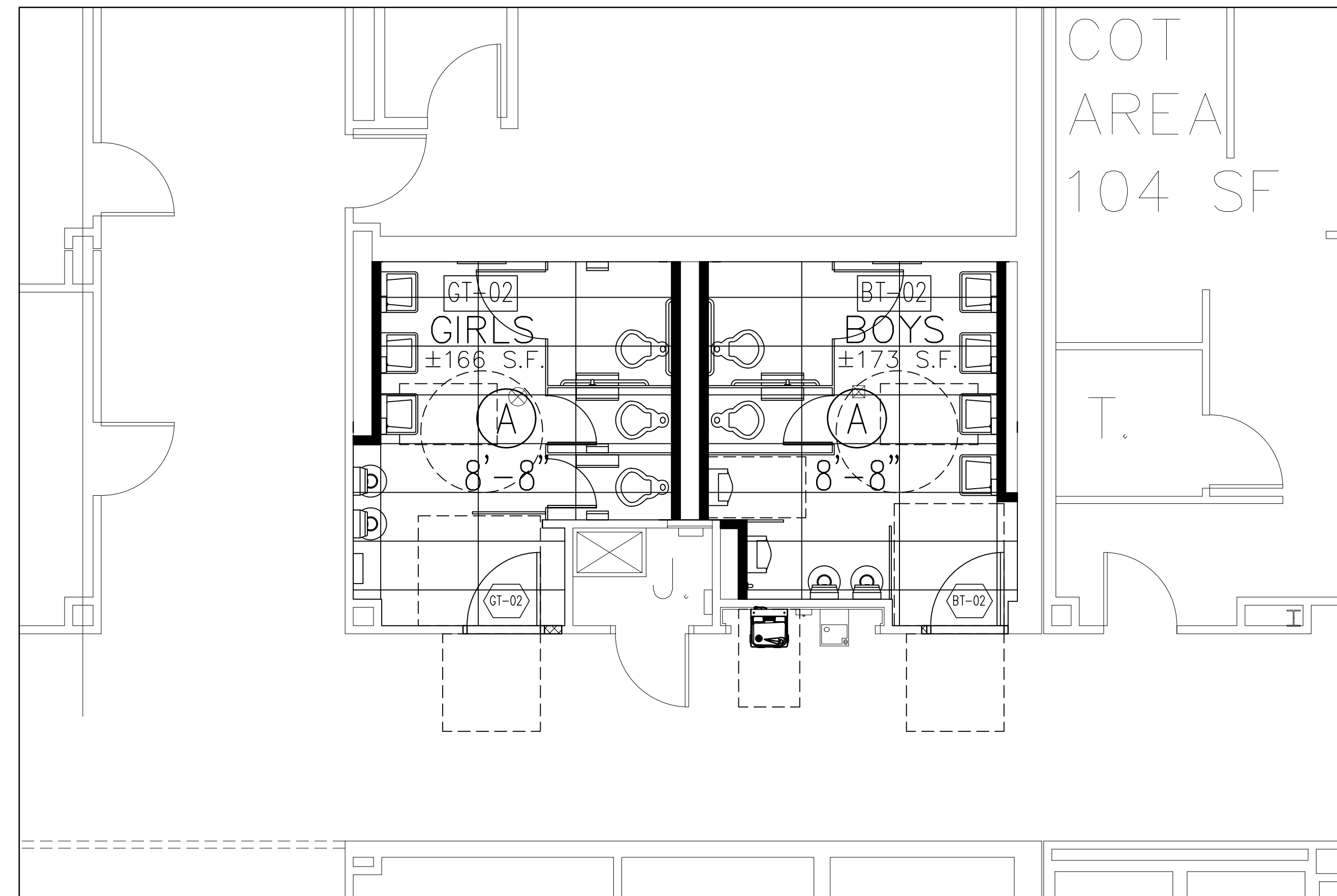
a.	e.
b.	f.
c.	g.

Project N6-94 HS
Date: 01-29-19
Scale: 1/4"=1'-0"

DEMO & PROPOSED FLOOR PLANS
HA-1

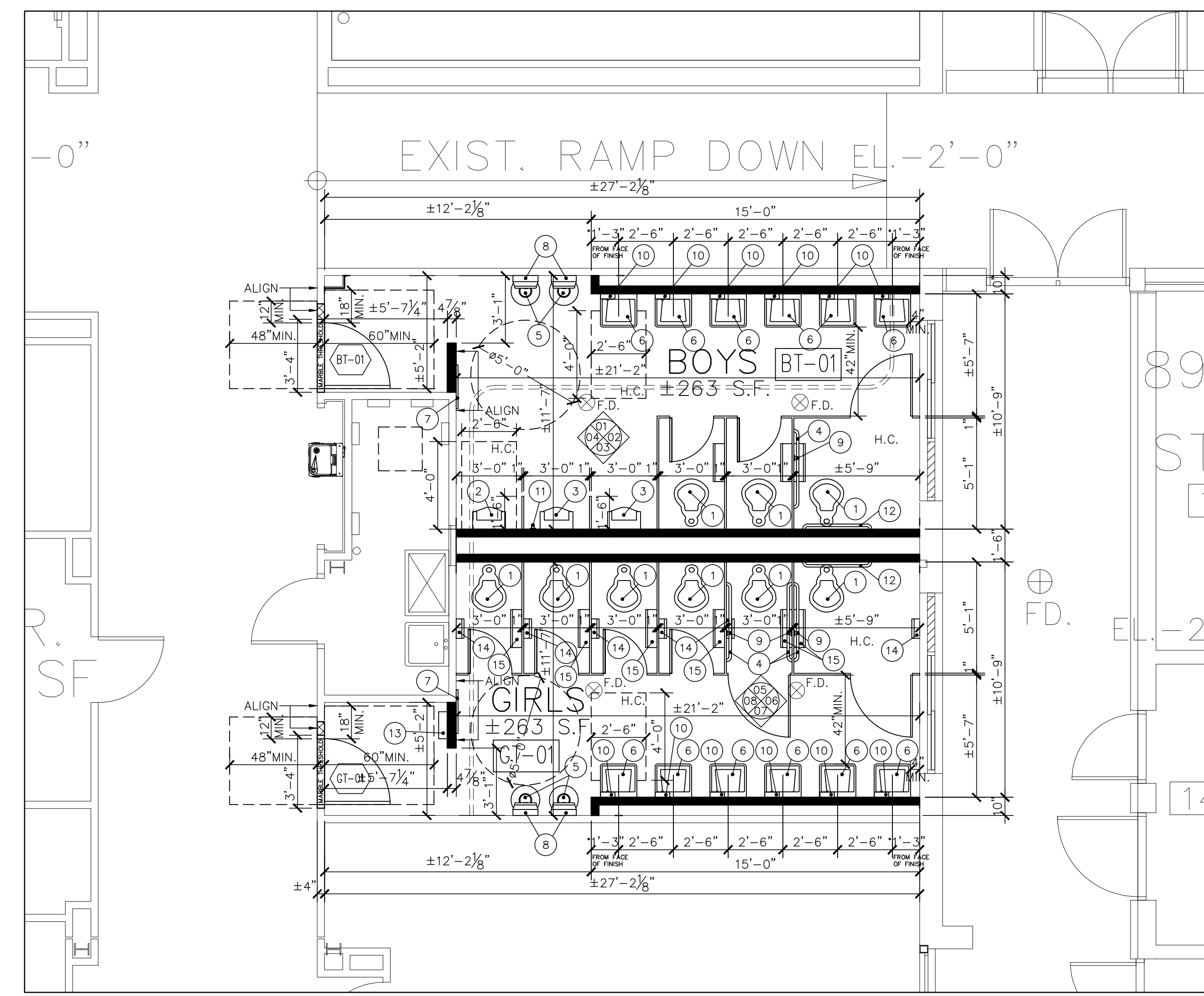


3 REFLECTED CEILING PLAN AT ENLARGED GANG TOILETS
 HA-2 SCALE: 1/4"=1'-0"

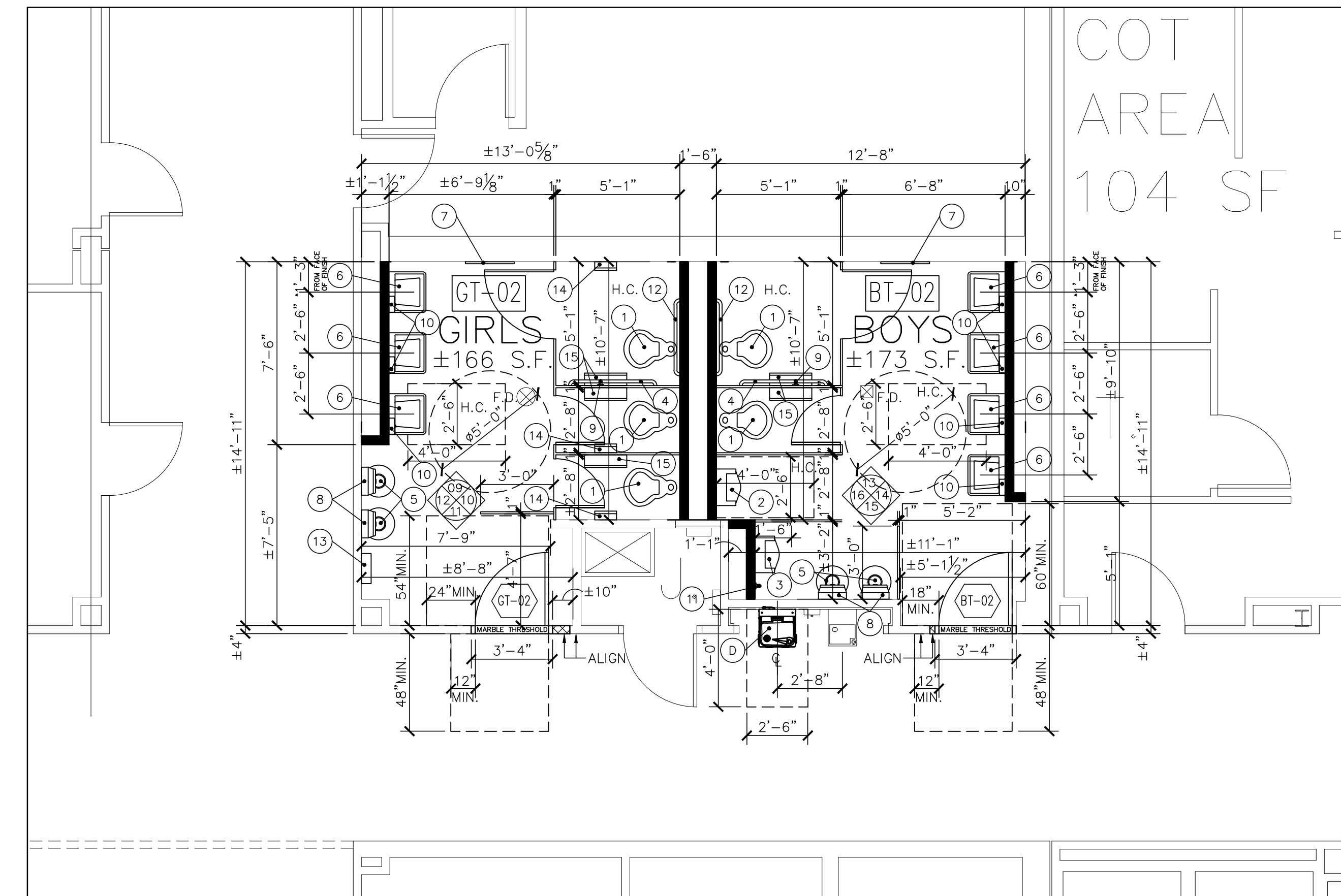


5 REFLECTED CEILING PLAN AT ENLARGED GANG TOILETS
 HA-2 SCALE: 1/4"=1'-0"

CEILING FINISH TYPES
 (A) 2'x4' LAY-IN TILE (NON-RATED)
 MOISTURE-RESISTANT w/ GRID



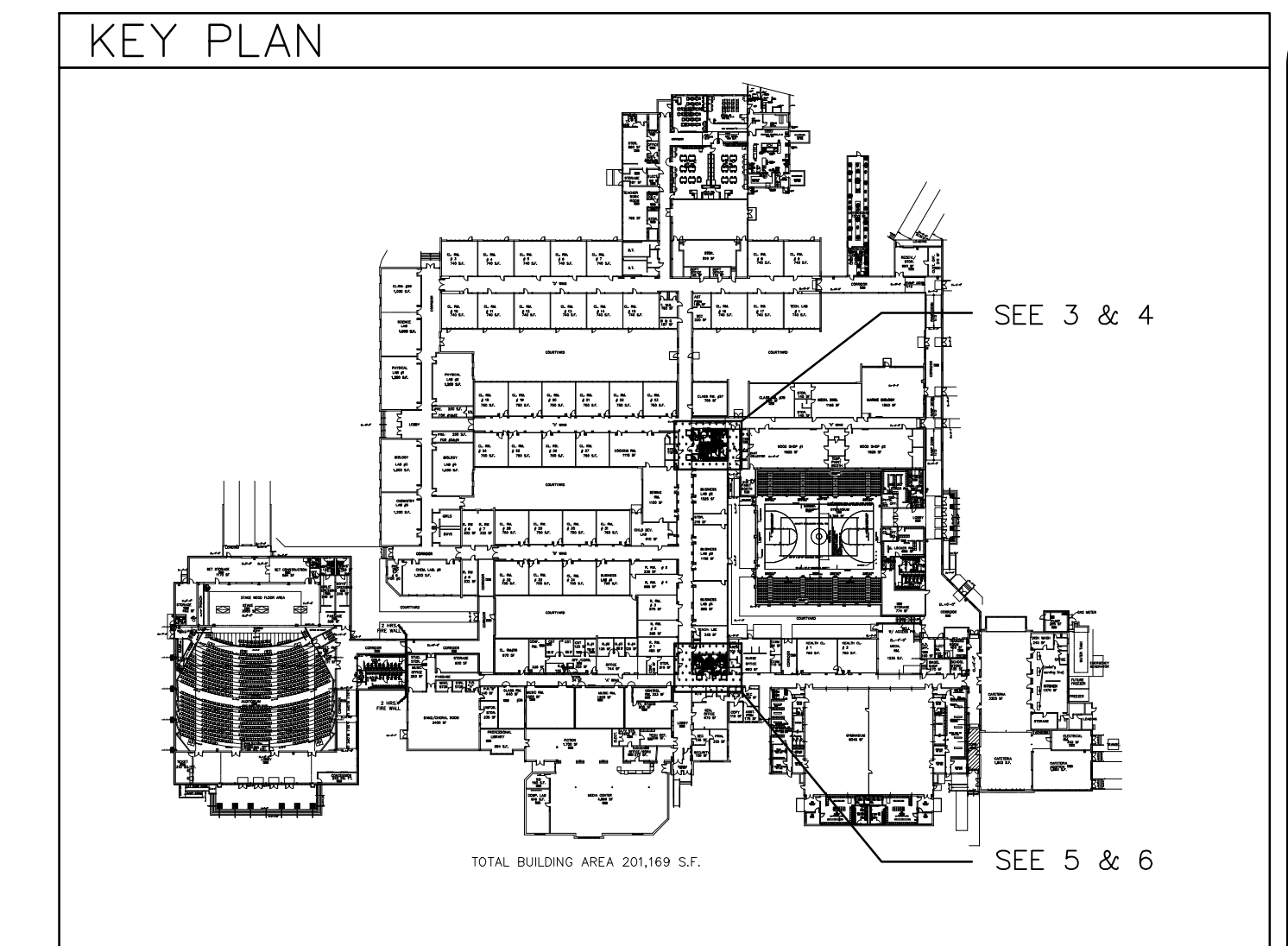
4 PROPOSED ENLARGED GANG TOILETS
 HA-2 SCALE: 1/4"=1'-0" REFER TO HA-3 FOR ACCESSORY & MATERIAL LISTS.



6 PROPOSED ENLARGED GANG TOILETS
 HA-2 SCALE: 1/4"=1'-0" REFER TO HA-3 FOR ACCESSORY & MATERIAL LISTS.

REFER TO SHEET HA-3 FOR ACCESSORY/MATERIALS LIST AND ELEVATIONS.

REFER TO SHEET HA-3 FOR ACCESSORY/MATERIALS LIST AND ELEVATIONS.



Garrison Architects
 A Professional Corporation of Architects and Planners
 713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-6200

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 667 ROUTE 9 CAPE MAY, NEW JERSEY 08204

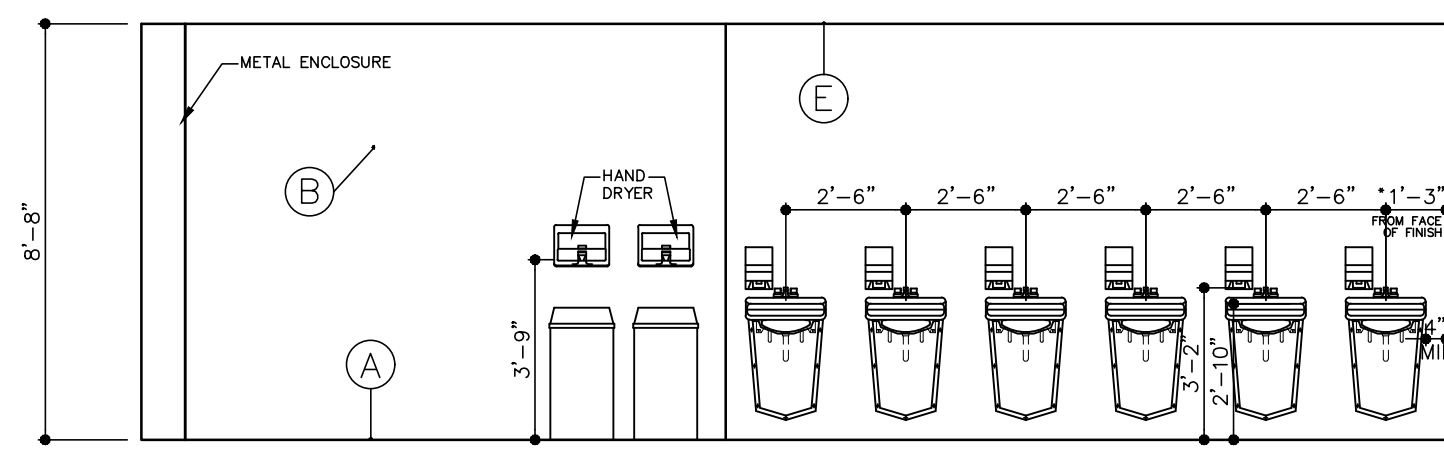
Lower Cape May Regional School District
 CAPE MAY, NEW JERSEY 08204

REVISIONS	
a.	e.
b.	f.
c.	g.

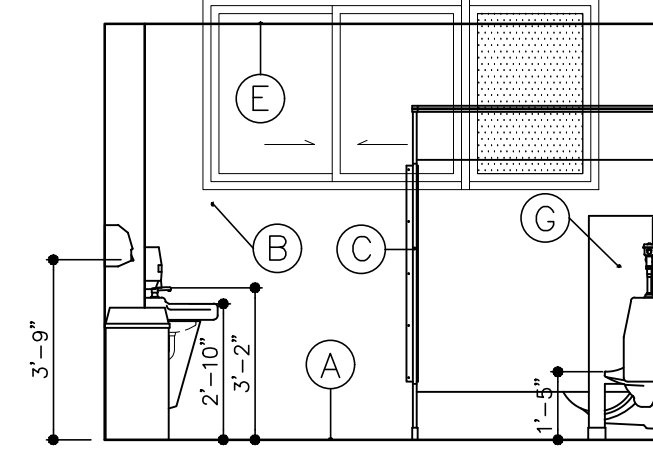
Project N6-94 H.S.
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RCP & ENLARGED TOILETS PLANS
HA-2

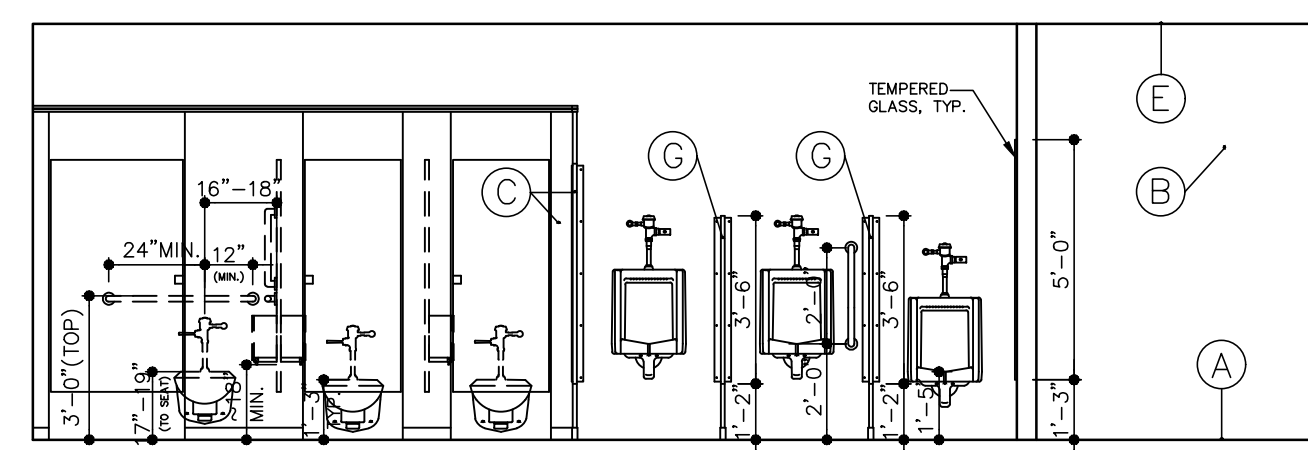
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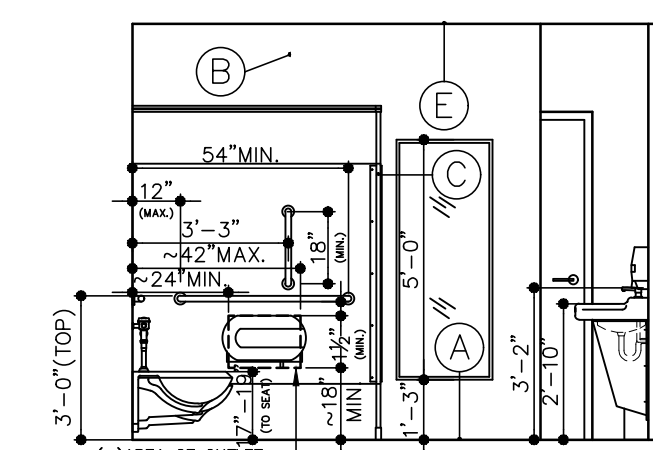
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ROOM #BOYS BT-1



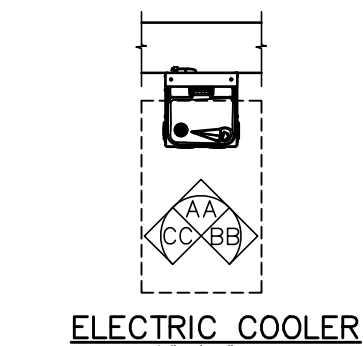
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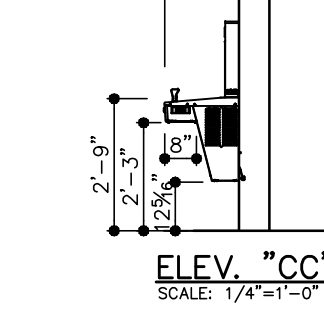
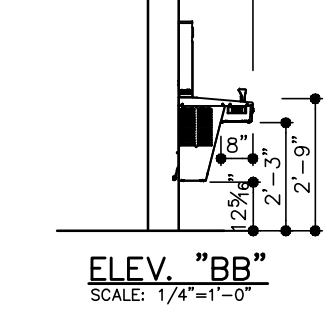
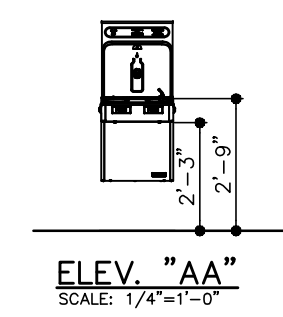
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ROOM #BOYS BT-1



ELEV. #04
SCALE: 1/4"=1'-0"
ROOM #BOYS BT-1



DRINKING FOUNTAIN WITH BOTTLE FILLER AND FILTER:
MODEL #WTHB-HACBSS-WF (WATER COOLER WITH BOTTLE FILLING STATION AND FILTER) BY HALSEY TAYLOR OR APPROVED EQUAL. SEE SPECIFICATIONS. PATCH ALL ADJACENT FINISHES TO MATCH EXISTING.



NOTE: ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.

ALL PLUMBING FIXTURES & ACCESSORIES TO MEET CABO/ANSI BARRIER FREE CODE. ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR. REINFORCE TOILET PARTITION BETWEEN HANDICAP STALL & REGULAR STALL TO CLEARANCE OF TOILET PARTITION TO BE 12" A.F.F. (TYP.) ALL TOILET ROOM & JANITORS CLOSET TO HAVE FLOOR DRAIN. ALL TOILET WALLS TO HAVE FRP WALL PANELS & EPOXY BASE (SEE SPECS.). (COLOR BY OWNER/ARCHITECT)

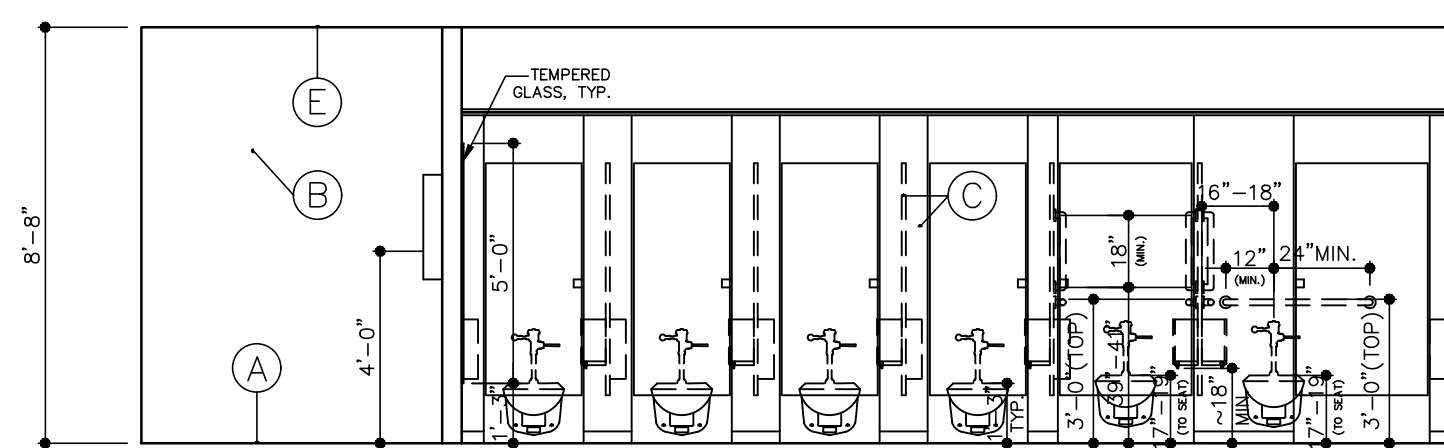
ALL PLANS, DETAILS, SECTIONS, SCHEDULES & ELEVATIONS SHOWN ON THIS DRAWING ARE TO BE COMPLETED BY THE GENERAL CONTRACTOR. UNLESS IT IS INDICATED BY OTHER TRADES, WHICH ARE TO BE COMPLETED BY THAT DESIGNATED TRADE.

ACCESSORY LIST: BY GENERAL CONTRACTOR (UNLESS OTHERWISE NOTED)

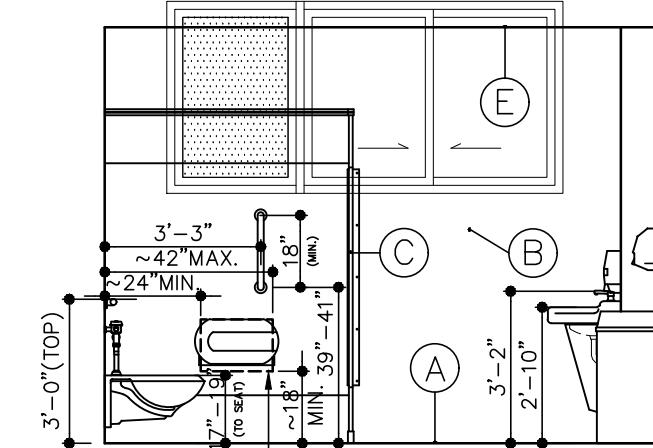
1. ELONGATED FLUSH VALVE WALL HUNG TOILET. BY PLUMBING CONTRACTOR.
2. HANDICAPPED WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
3. WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
4. STAINLESS STEEL HORIZONTAL GRAB BAR 42"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x42' OR EQUAL
5. WASTE RECEPTACLE. SUPPLIED BY OWNER, INSTALLED BY G.C.
6. WALL HUNG LAVATORY w/ACCESSIBLE LEVER HANDLE FAUCET & LAVATORY SHIELD. BY PLUMBING CONTRACTOR
7. 24"x60" MIRROR w/STAINLESS STEEL FRAME. BOBRICK 'B-165 2460' OR EQUAL
8. ELECTRIC HAND DRYER, XLERATOR MODEL #XL-SB, 120V, SURFACE MTD, AUTOMATIC w/SOUND & SPEED CONTROL & NOISE REDUCTION NOZZLE OR APPROVED EQUAL.
9. STAINLESS STEEL VERTICAL GRAB BAR 18"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x18' OR EQUAL
10. SOAP DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
11. STAINLESS STEEL VERTICAL GRAB BAR 24"x1 1/2" DIA. w/SATIN FINISH. (SEE PLAN FOR CONFIGURATION) BOBRICK 'B-6806x24' OR EQUAL
12. STAINLESS STEEL HORIZONTAL GRAB BAR 36"x1 1/2" DIA. w/SATIN FINISH. BOBRICK 'B-6806x36' OR EQUAL
13. SURFACE MOUNTED NAPKIN/TAMPON VENDOR SUPPLIED BY OWNER, INSTALLED BY G.C.
14. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL SUPPLIED BY OWNER, INSTALLED BY G.C.
15. TOILET TISSUE DISPENSER SUPPLIED BY OWNER, INSTALLED BY G.C.

MATERIALS LIST:

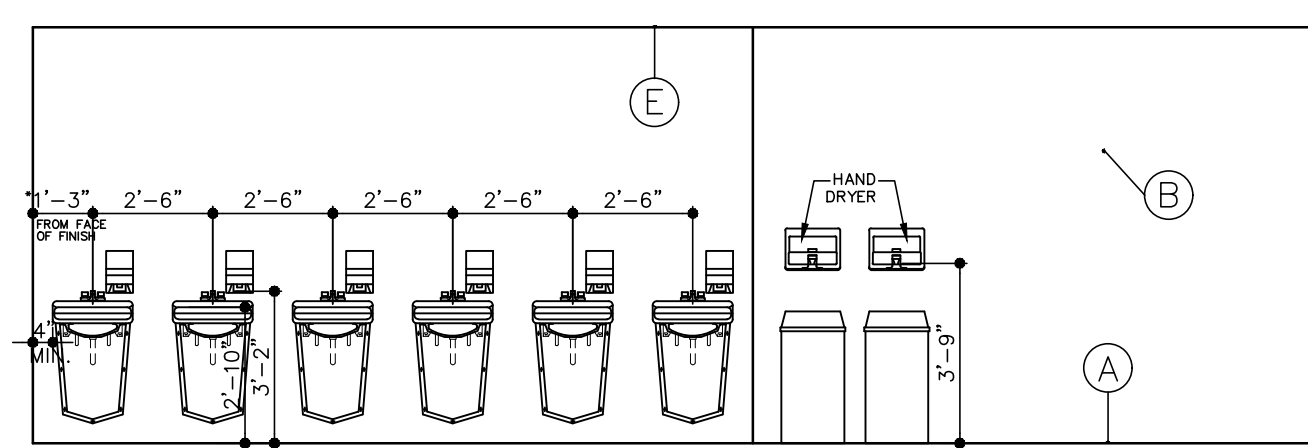
- (A) EPOXY FLOOR w/EPOXY COVE BASE (SEE SPECS.)
- (B) FULL HT. FRP WALL PANELS (SEE SPECS.)
- (C) FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET PARTITION
- (D) HANDICAPPED DRINKING FOUNTAIN WITH BOTTLE FILLER
- (E) LAY-IN CEILING TILE
- (F) NEW DOOR (SEE DOOR SCHEDULE)
- (G) PLASTIC URINAL SCREEN (BY SANTANA OR SANATEC OR APPROVED EQUAL)



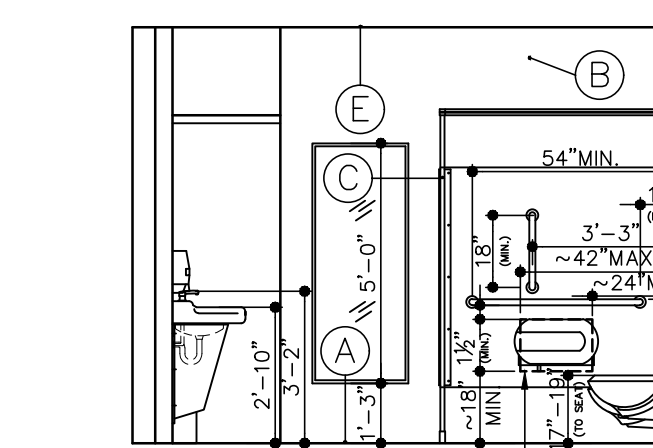
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ROOM #GIRLS GT-1



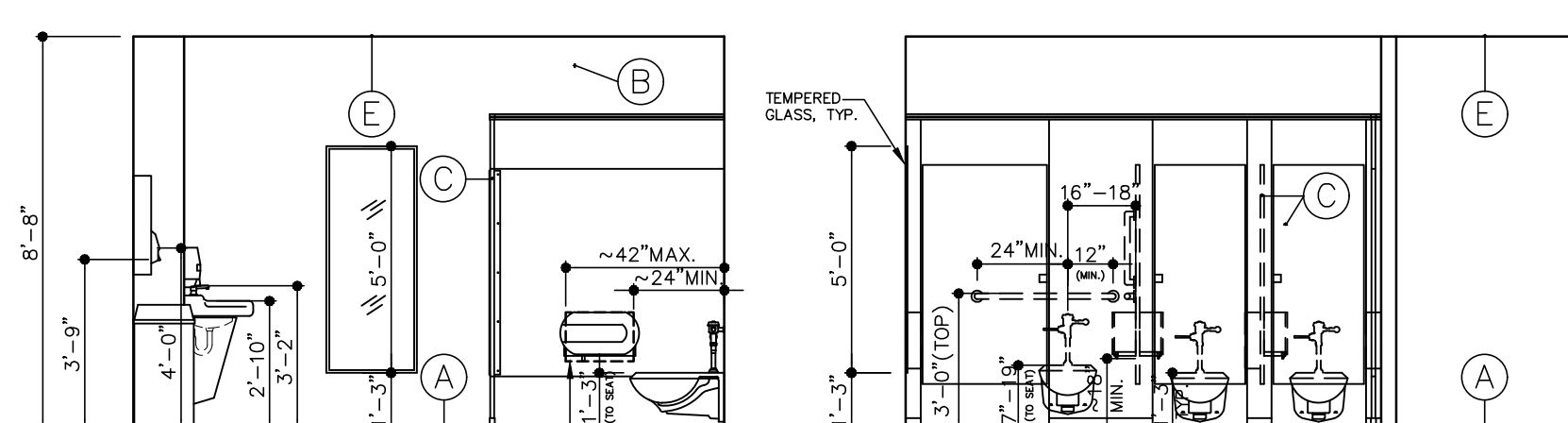
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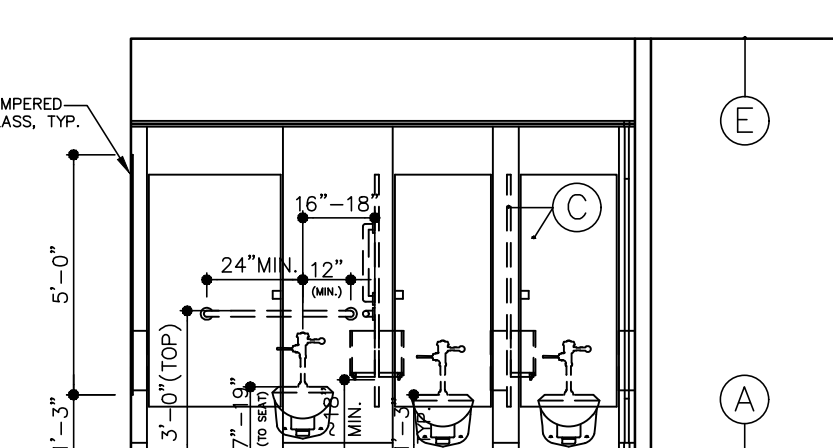
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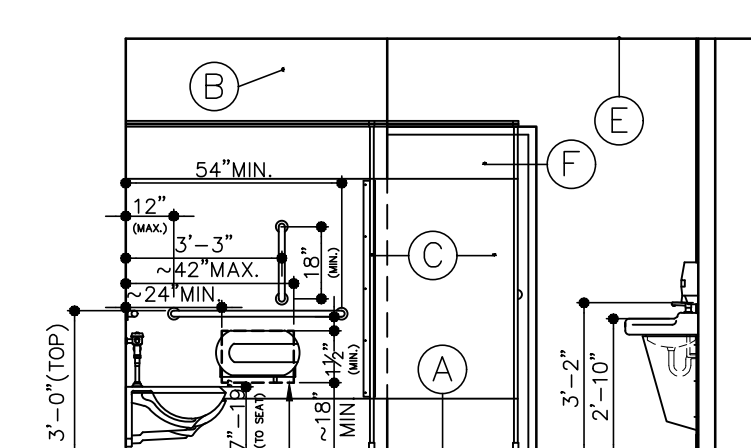
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ROOM #GIRLS GT-1



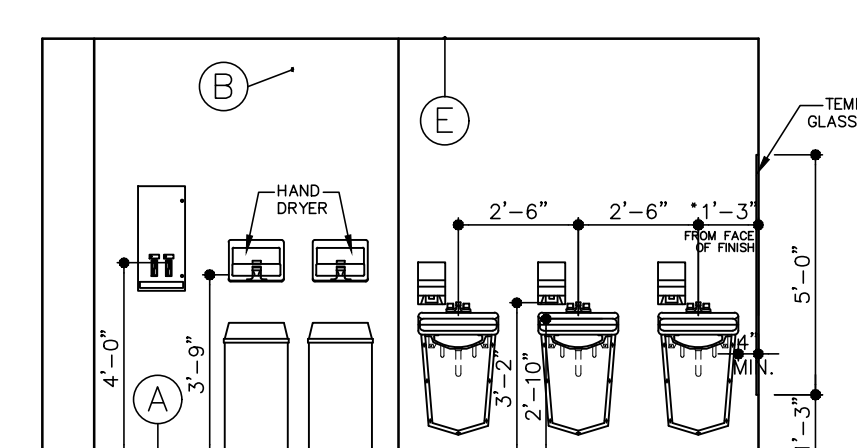
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SCALE: 1/4"=1'-0"
ROOM #GIRLS GT-2



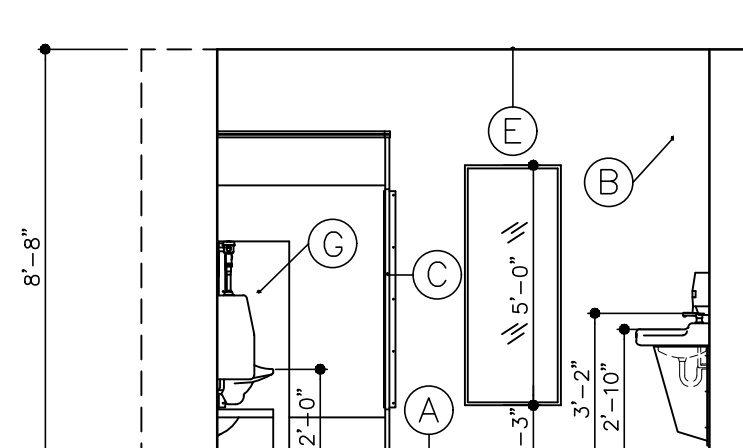
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SCALE: 1/4"=1'-0"
ROOM #GIRLS GT-2



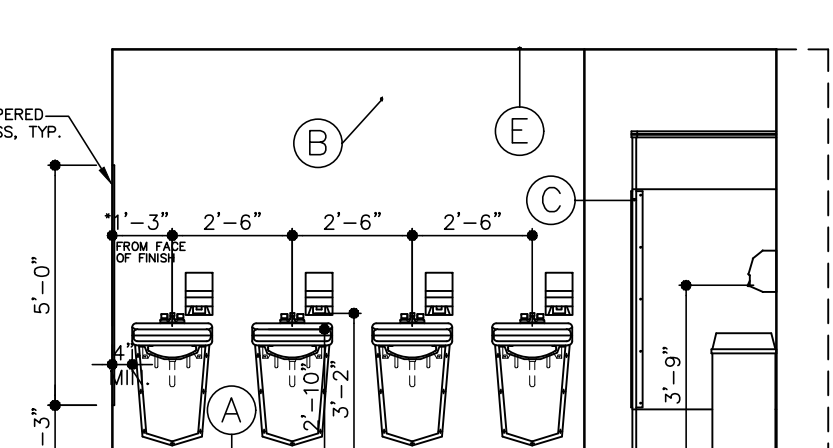
ELEV. #11
SCALE: 1/4"=1'-0"
ROOM #GIRLS GT-2



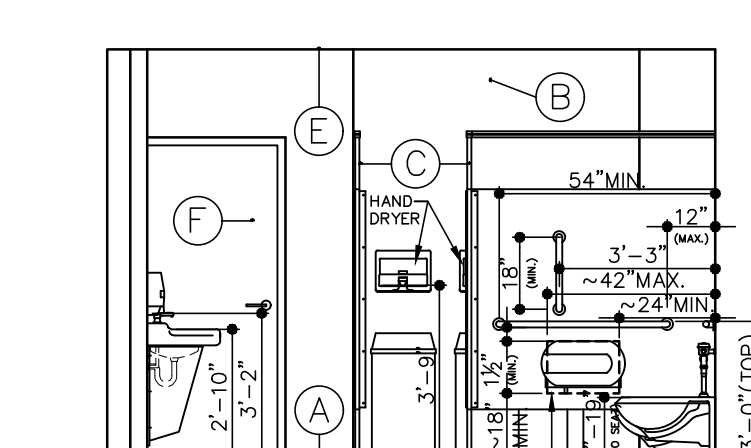
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ROOM #GIRLS GT-2



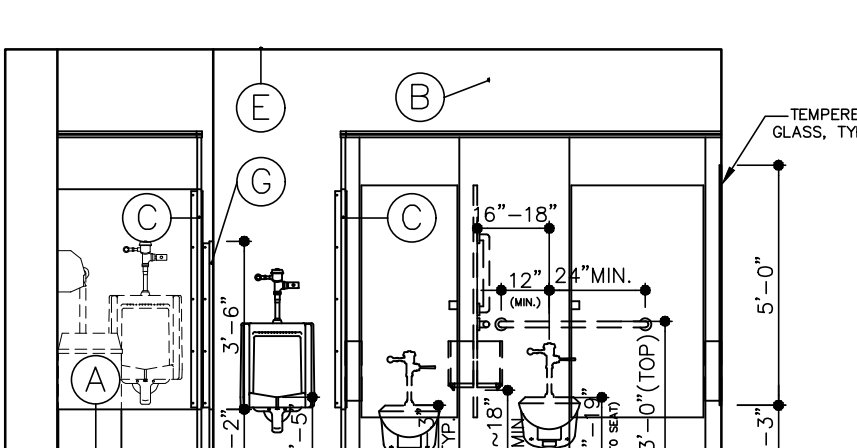
ELEV. #13
SCALE: 1/4"=1'-0"
ROOM #BOYS BT-2



ELEV. #14
SCALE: 1/4"=1'-0"
ROOM #BOYS BT-2



ELEV. #15
SCALE: 1/4"=1'-0"
ROOM #BOYS BT-2



ELEV. #16
SCALE: 1/4"=1'-0"
ROOM #BOYS BT-2

2019 Toilet Room Renovations at the Lower Cape May Regional High School
 667 ROUTE 9 CAPE MAY, NEW JERSEY 08204
Lower Cape May Regional School District
 CAPE MAY, NEW JERSEY 08204

REVISIONS	
a.	e.
b.	f.
c.	g.

Project N8-94 H.S.
Date: 01-29-19
Scale: 1/4"=1'-0"

ENLARGED TOILETS ELEVATIONS HA-3

CONTRACTOR SHALL HAVE RECEIVED OVER SIZED DIMENSIONS OF ALL MATERIALS AND BE RESPONSIBLE FOR ALL DIMENSIONS SHOWN ON THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING BEFORE PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING BEFORE PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING BEFORE PROCEEDING WITH INSTALLATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING BEFORE PROCEEDING WITH INSTALLATION.

ROOM AND FINISH SCHEDULE

FL.	ROOM NO.	ROOM NAME	NEW FLOOR	NEW BASE	NEW WALLS	FIRE RATING (HOUR)	NEW CEILING	NEW CEILING HT.	INTERIOR FINISH CLASSIFICATION	CEILING TILE TYPE	REMARKS
	BT-01	HIGH SCHOOL BOYS TOILET	EPOXY RESIN	EPOXY RESIN*	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1. * SEE DETAIL 12/HA-4
	GT-01	HIGH SCHOOL GIRLS TOILET	EPOXY RESIN	EPOXY RESIN*	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1. * SEE DETAIL 12/HA-4
	GT-02	HIGH SCHOOL BOYS TOILET	EPOXY RESIN	EPOXY RESIN*	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1. * SEE DETAIL 12/HA-4
	BT-02	HIGH SCHOOL GIRLS TOILET	EPOXY RESIN	EPOXY RESIN*	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1. * SEE DETAIL 12/HA-4

INTERIOR FINISH CLASSIFICATION	
CLASSROOM OF MATERIALS	SURFACE BURNING CHARACTERISTIC TEST
A	0 TO 25
B	26 TO 75
C	76 TO 200

REMARKS

- WITH HOLD DOWN CLIPS 6'-0" OUT FROM THE PIPE CHASE WALL IN GANG TOILETS

CEILING FINISH TYPES

(A) 2'x4' LAY-IN TILE (NON-RATED) MOISTURE-RESISTANT w/ GRID

GENERAL NOTES:

- ADJUST MASTIC DEPTH & SHIMS AS REQUIRED TO ACHIEVE PLUMB WALL.

NOTES:

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT AND LIGHTING.
- CEILING LIGHT LOCATIONS TO BE COORDINATED WITH LIGHTING AND MECHANICAL DRAWINGS FOR MECH. DUCT CLEARANCE (TYP.)

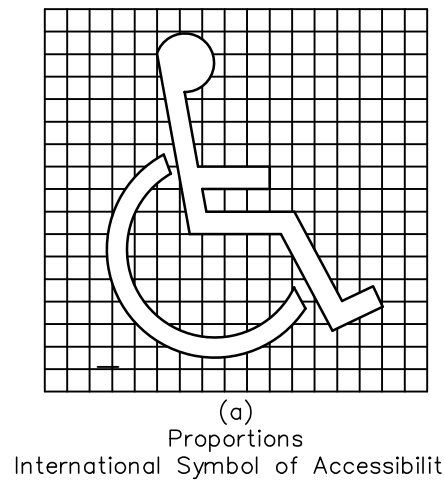
ALL DOORS RECEIVE NEW SIGNAGE(TYP.)

SIGNAGE: ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI 117.1 ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE

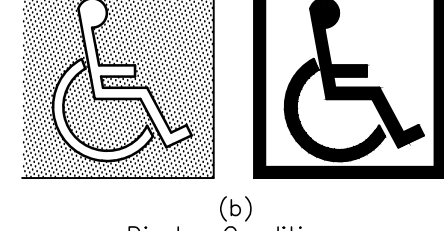
INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN. OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 0 & FIG. 8

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

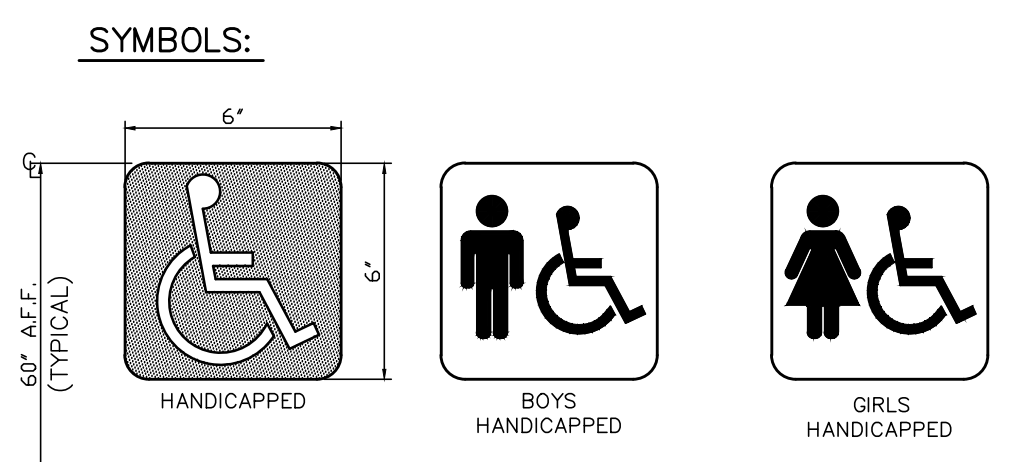
ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE, PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.



International Symbol of Accessibility



Display Conditions of Accessibility



SYMBOLS: HANDICAPPED, BOYS HANDICAPPED, GIRLS HANDICAPPED

Raised and Braille Characters and Pictorial Symbol Signs (Pictograms). Letters and numerals shall be raised 1/32 in. upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 in. (16 mm) high, but no higher than 2 in. (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 in. (152 mm) minimum in height.

ROOM IDENTIFICATION ENGRAVED SYSTEM DESIGN:

2 COLOR LAYER LAMINATED PLASTIC SIGN WITH RAISED LETTERS AND RAISED GRADE 2 BRAILLE.

IT IS CONTRACTOR'S RESPONSIBILITY TO REMOVE, PATCH, REPAIR EXISTING FLOOR, BASE, WALL, CEILING IN AREAS AS NOTED IN THIS SCHEDULE; TO RECEIVE NEW FINISH MATERIAL OR PAINT.

IF SURFACE HAS NO WORK LISTED IN THIS SCHEDULE BUT CUT, MODIFIED BY OTHER PRIME CONTRACTORS TO PERFORM THEIR WORK, IT IS THE RESPONSIBILITY OF EACH OF THOSE PRIME CONTRACTOR TO PATCH, REPAIR, PAINT THE SURFACE TO ITS ORIGINAL CONDITION.

EXISTING FLOOR & BASE FINISH INDICATED IS ONLY THE TOP VISIBLE FINISH. SOME ROOMS MAY HAVE OTHER FINISHES BELOW. CONTR. TO CHECK EACH ROOM FINISH ON SITE AND TO REMOVE ALL LAYERS ABOVE STRUCTURAL SLAB AND INSTALL NEW FLOOR & BASE.

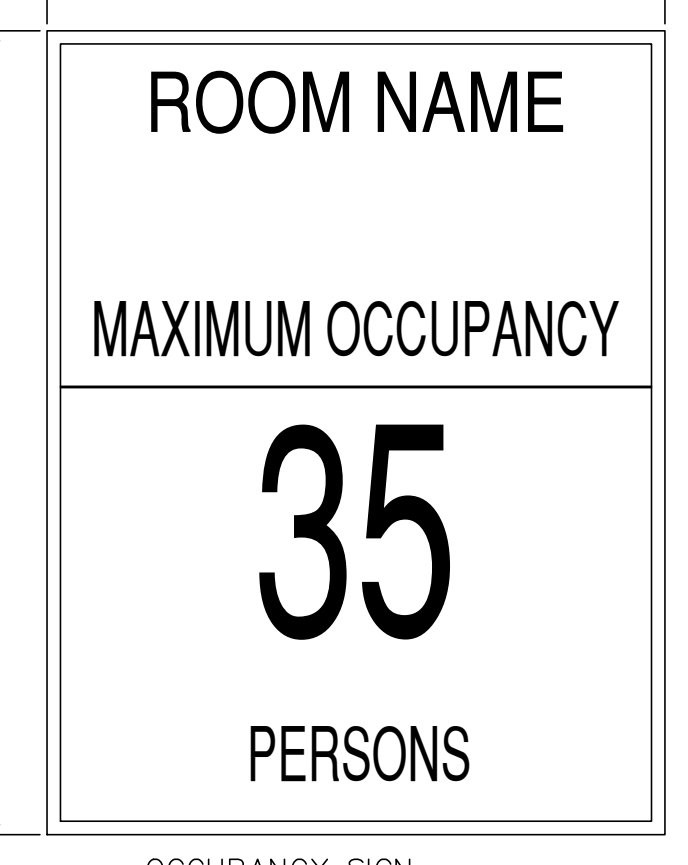
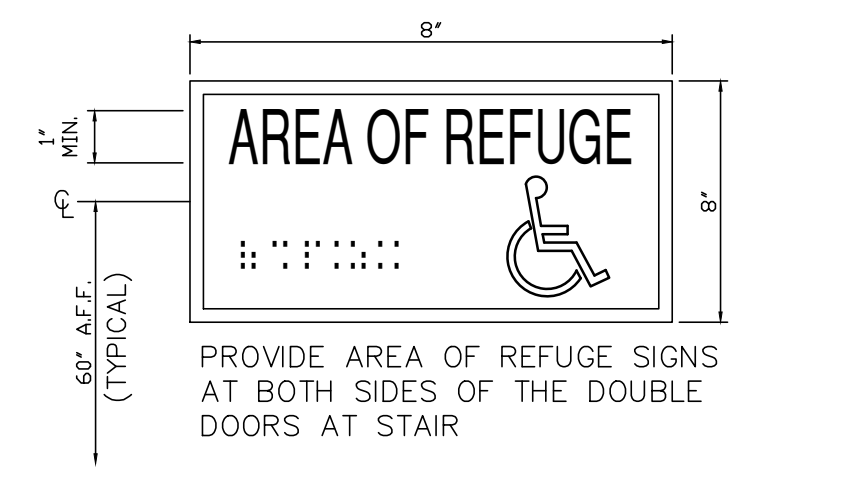
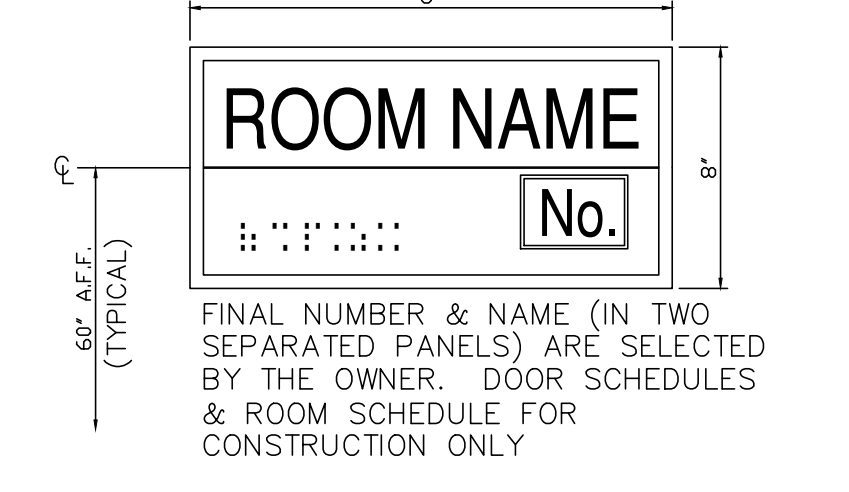
DEMOLITION WORK:
SEE DEMO PLANS, NOTES, AND SPECIFICATION FOR DEMO WORK.(TYP.)

H.V.A.C.WORK:
SEE MECHANICAL & PLUMBING DRAWINGS, MECH./PLUMB. DEMO PLANS, NOTES, SPECIFICATIONS FOR H.V.A.C. & PLUMBING DEMOLITION AND NEW WORKS (TYP.).

ELECTRICAL WORK:
SEE ELECTRICAL DRAWINGS, NOTES, SPECIFICATIONS FOR ELECTRICAL WORKS(TYP.).

CEILING WORK:
SEE REFLECTED CEILING PLANS, NOTES, AND SPECIFICATION FOR CEILING WORK & CEILING HEIGHT(TYP.).

FIRE PROTECTION:
SEE FIRE PROTECTION DWGS FOR SPRINKLERED AREAS(TYP.).



NOTE: (FIRE RATING)
ALL WALL, CEILING, FLOOR OR ROOF CONSTRUCTION SHALL MEET ALL FIRE RATING INDICATED IN EACH ROOM AREA ON THE SCHEDULE.

- ALL INTERIOR FINISHES SHALL MEET MINIMUM FLAME SPREAD CLASSROOM REQUIREMENT. (BASED ON IBC 2015, NEW JERSEY EDITION)
- ALL CEILING PANELS SHALL MEET CLASS A REQUIREMENT.
- SPRAY FIREPROOFING MATERIAL ON EXPOSED STEEL BEAMS, COLUMNS, BAR-JOISTS & STEEL DECK IN ORDER TO MEET FIRE RATING.

G.C.WORK:
CERAMIC TILE: COLOR AND PATTERN SELECTED FROM MANUFACTURER'S STANDARD PACKAGE. THE PATTERN FOR ALL AREAS MAY BE AS MANY AS THREE (3) DIFFERENT COLORS USED IN A PATTERN THAT DOES NOT REQUIRE CUT ACCENT COLOR TILES PER THE OWNER'S/ARCHITECT'S DIRECTION.

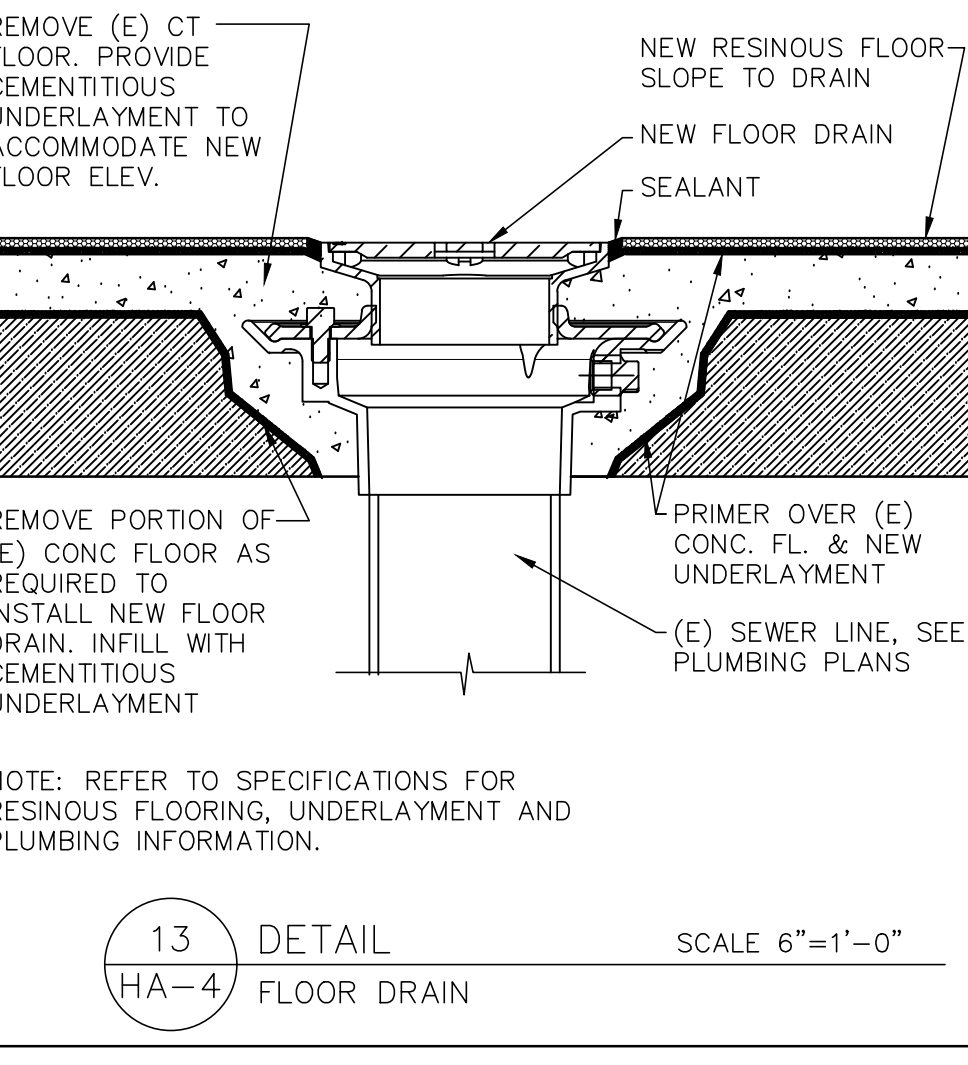
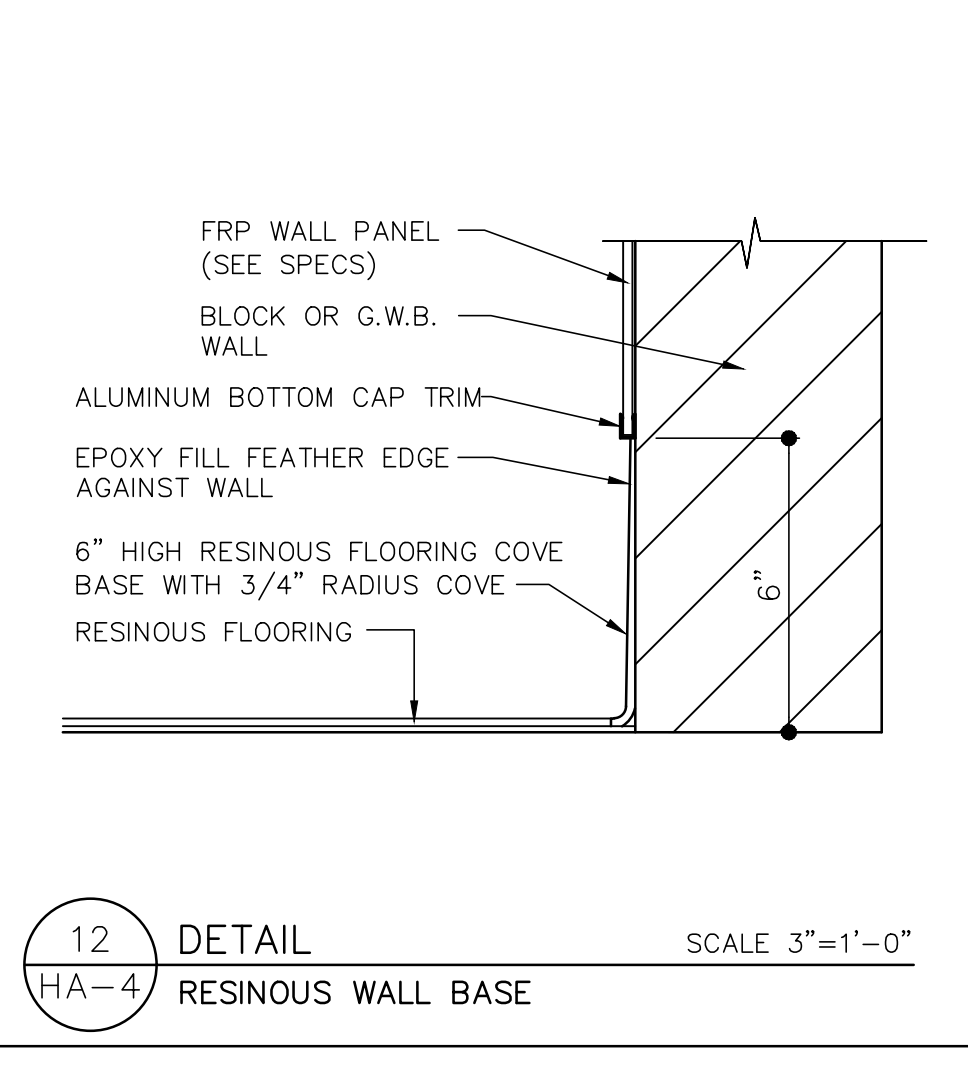
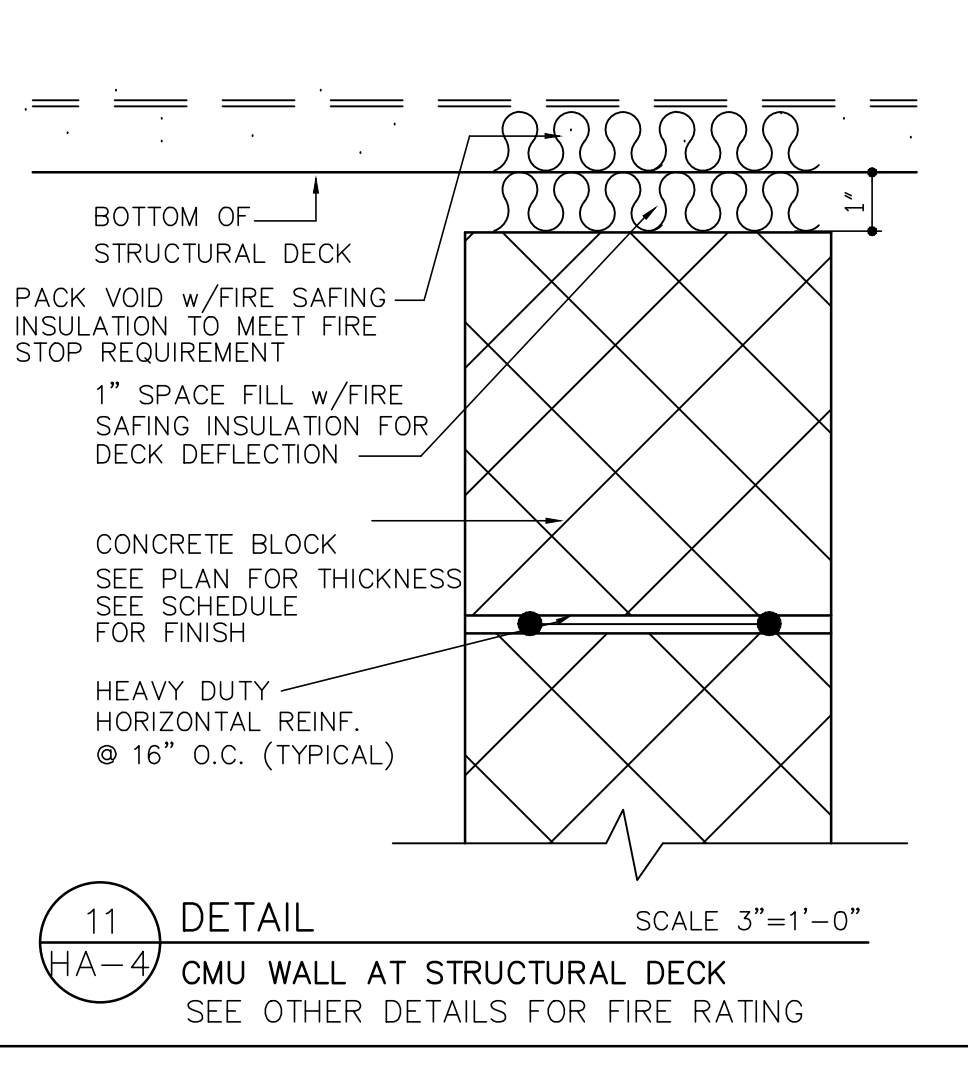
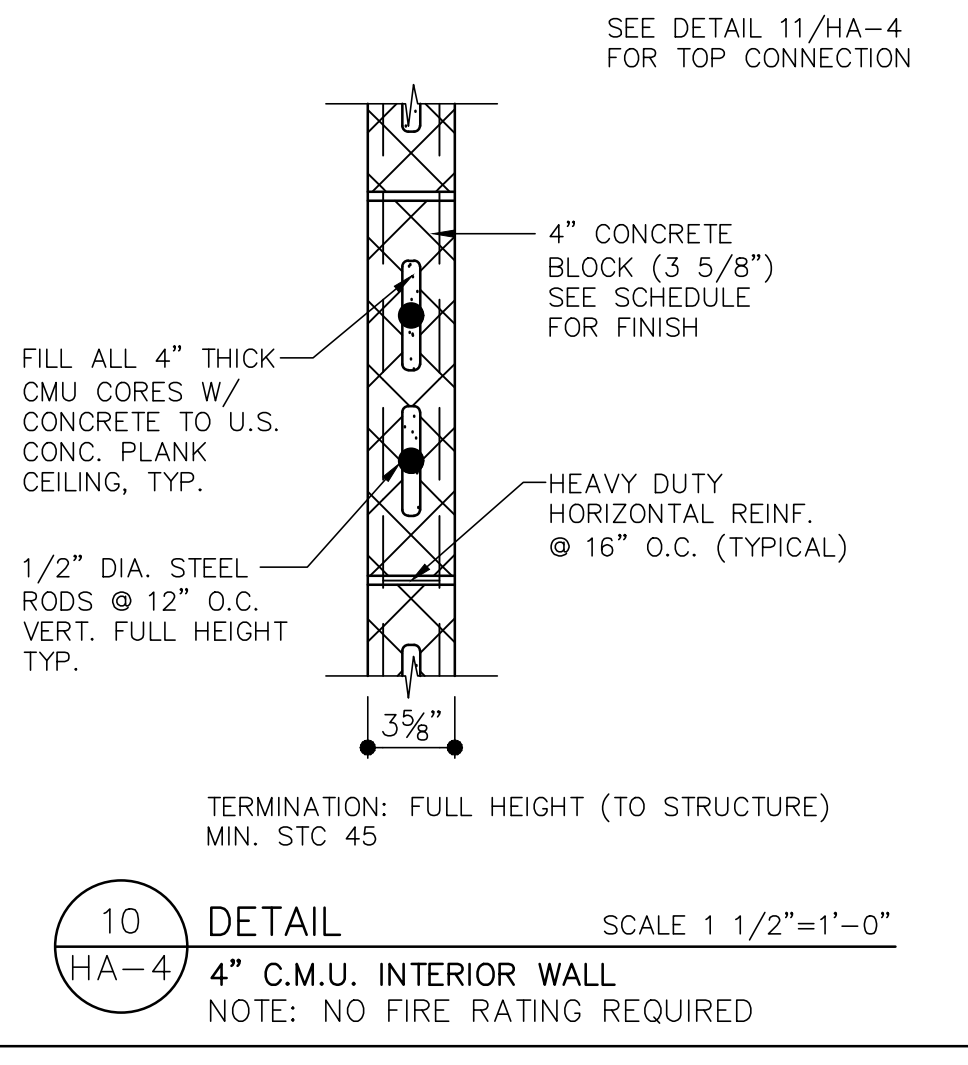
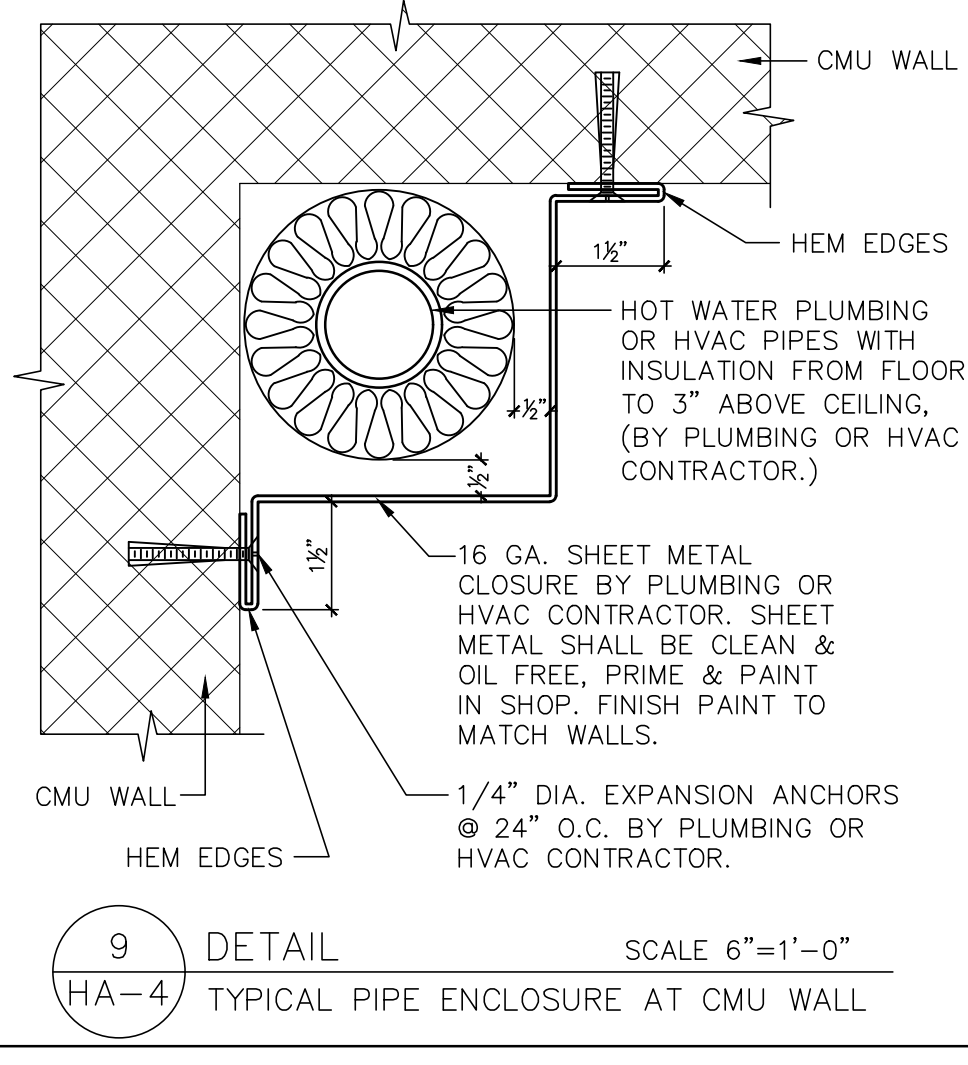
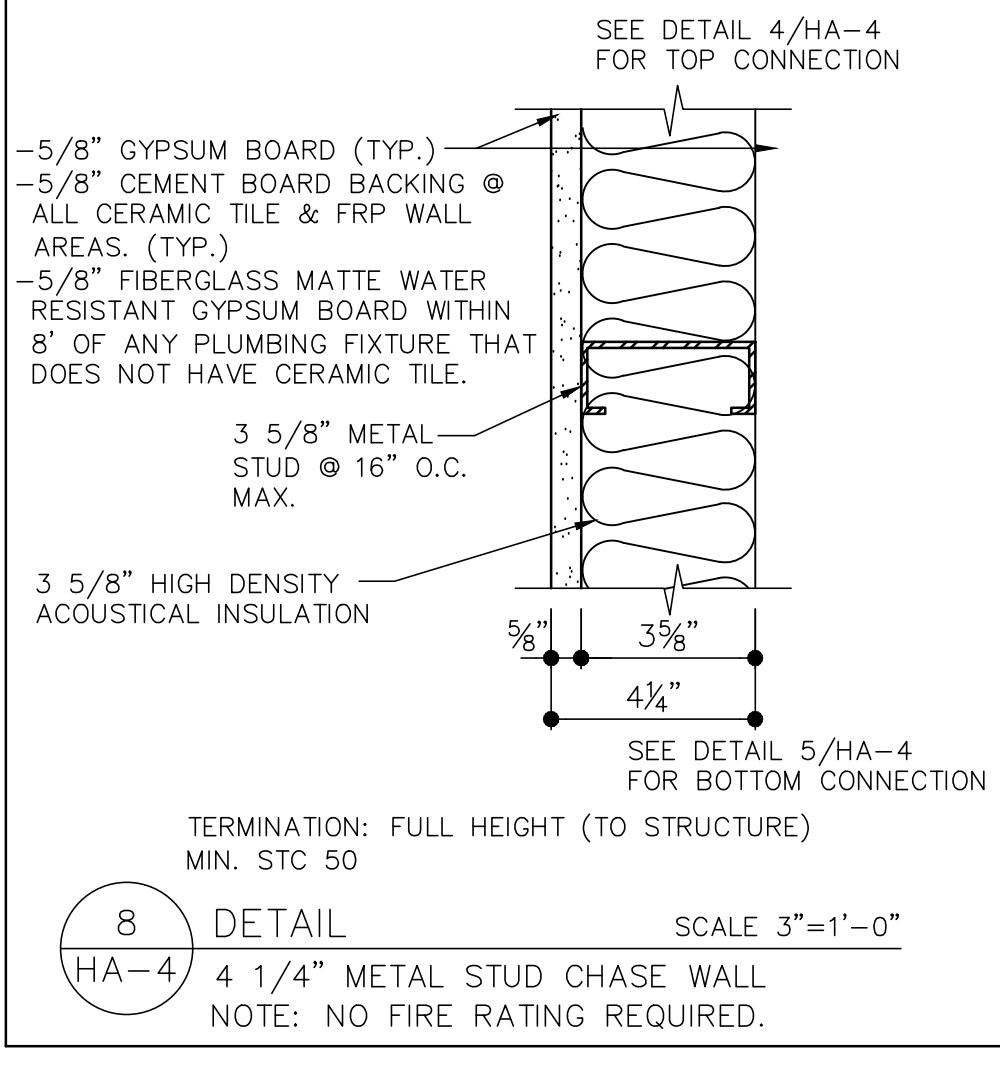
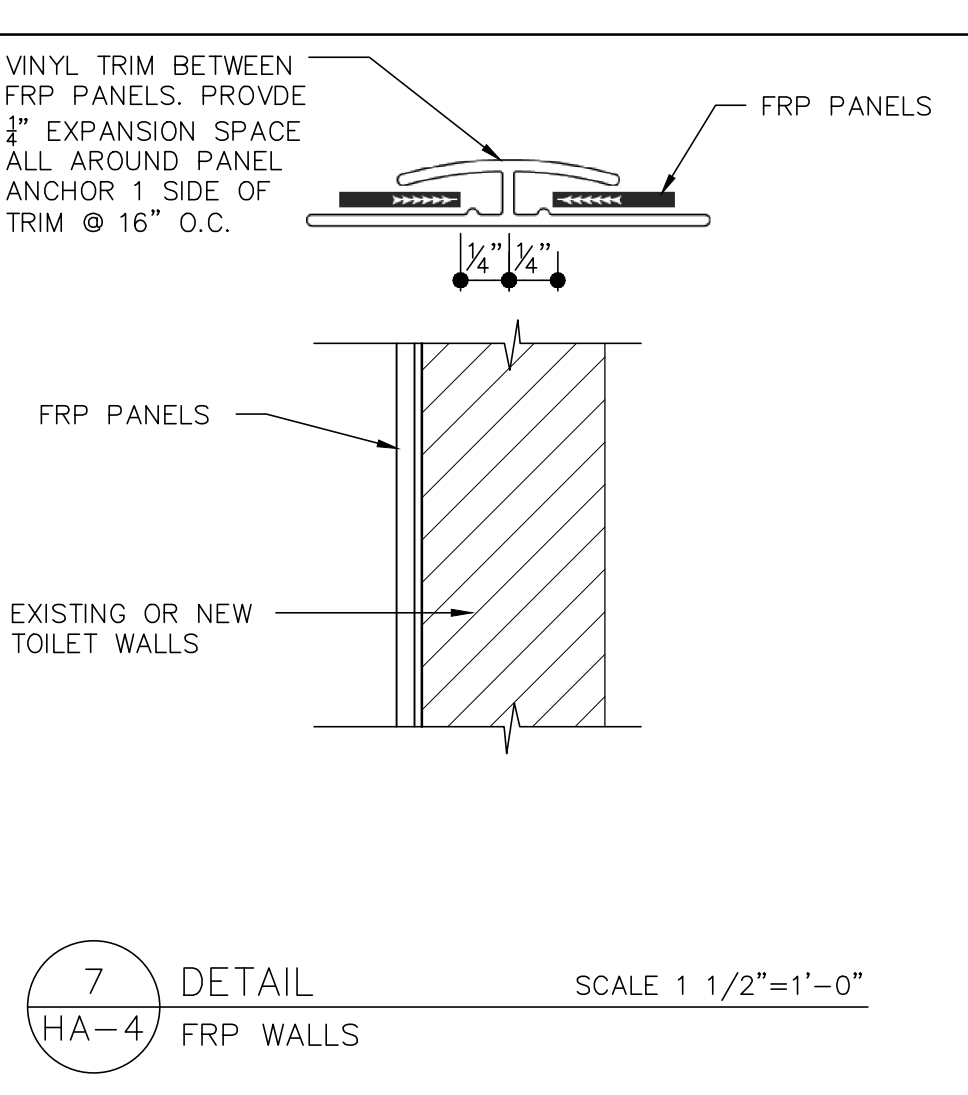
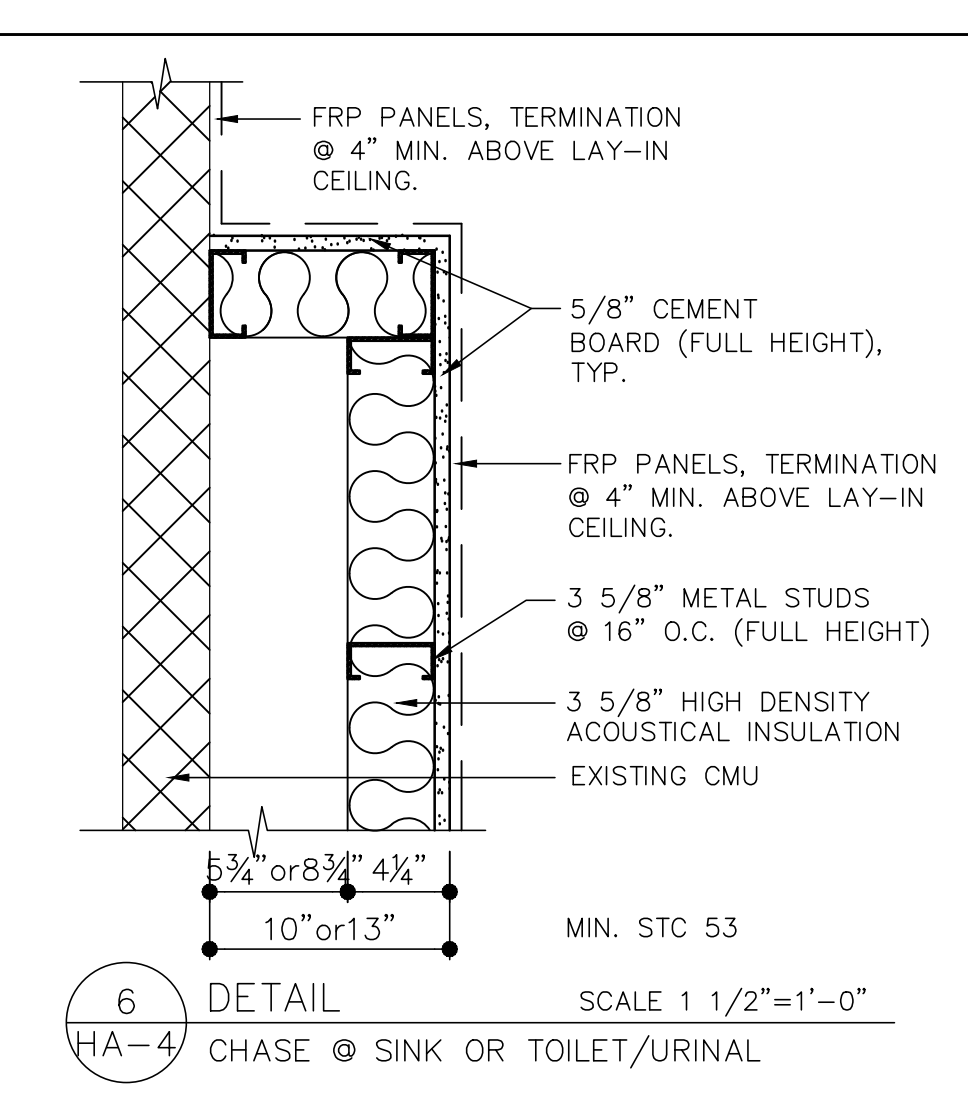
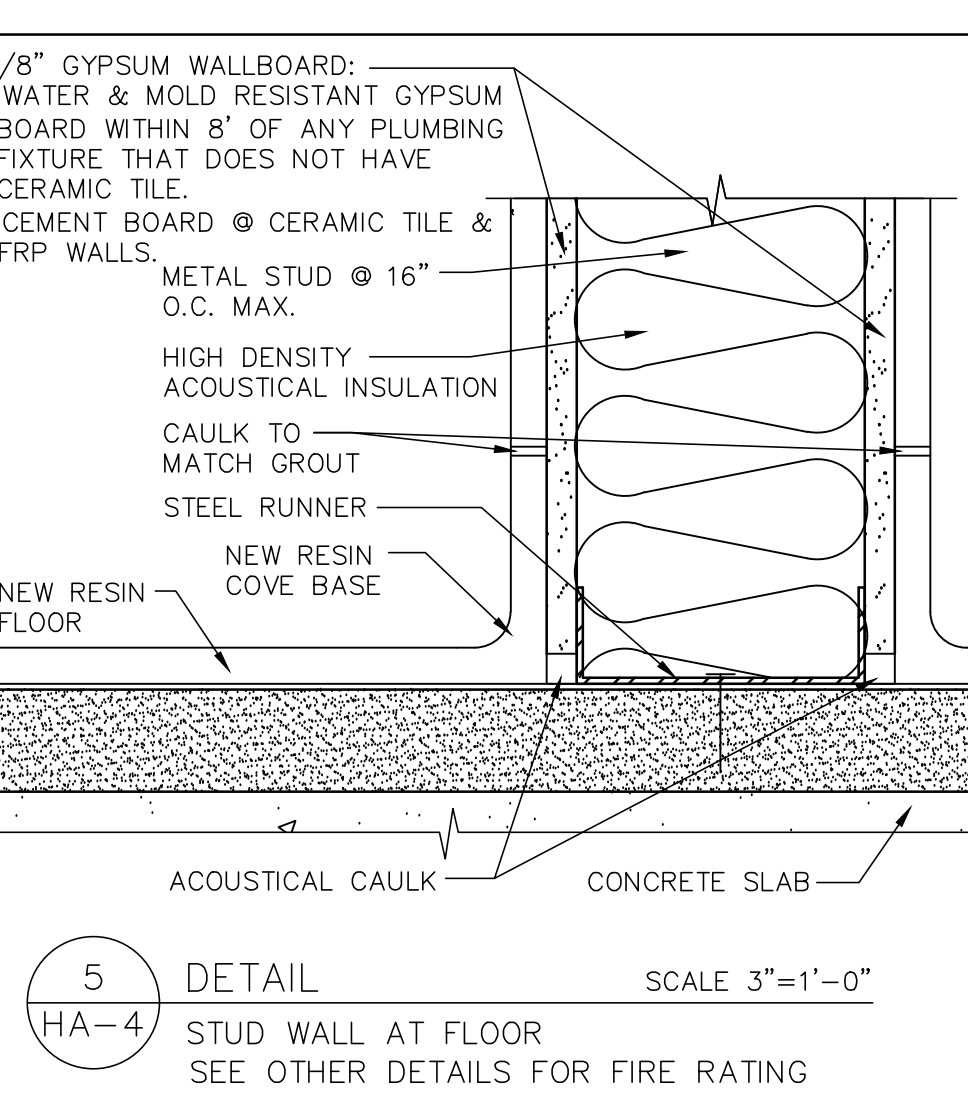
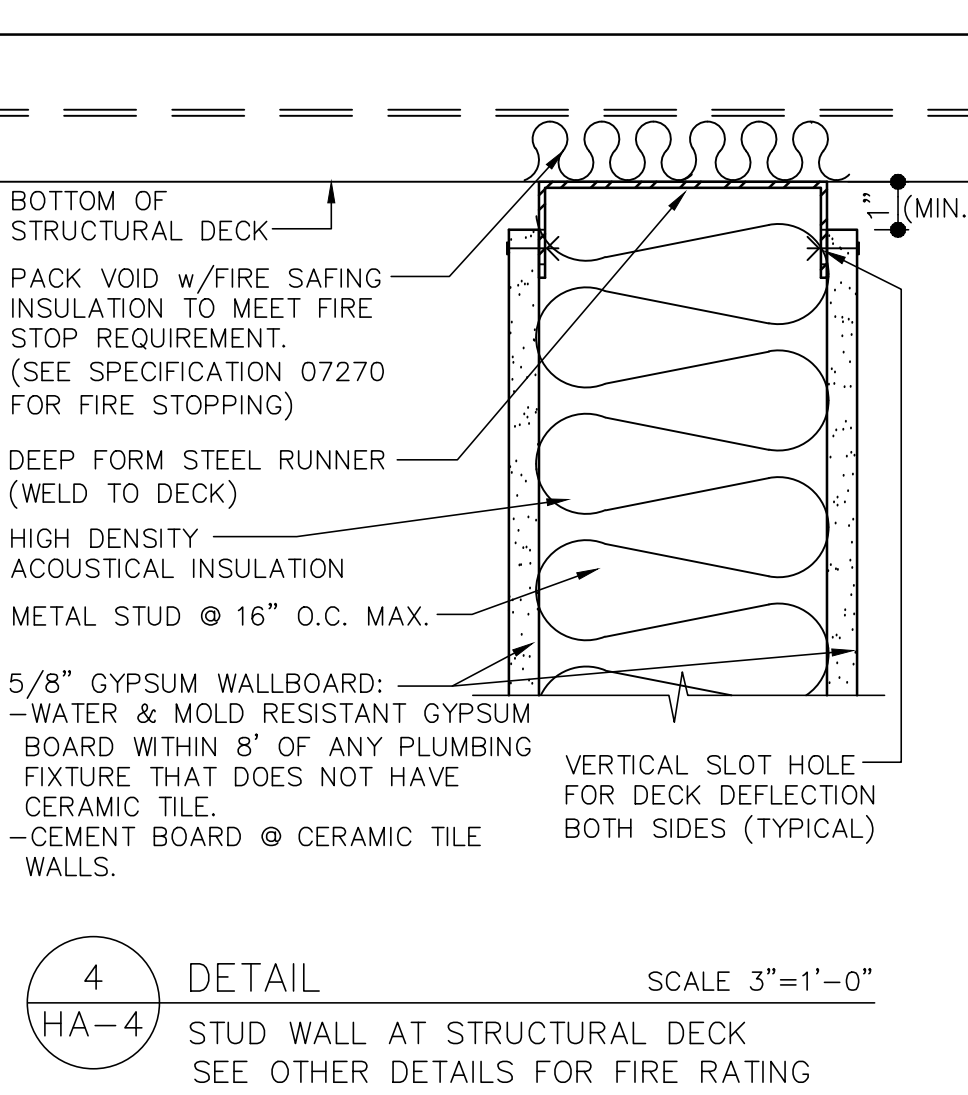
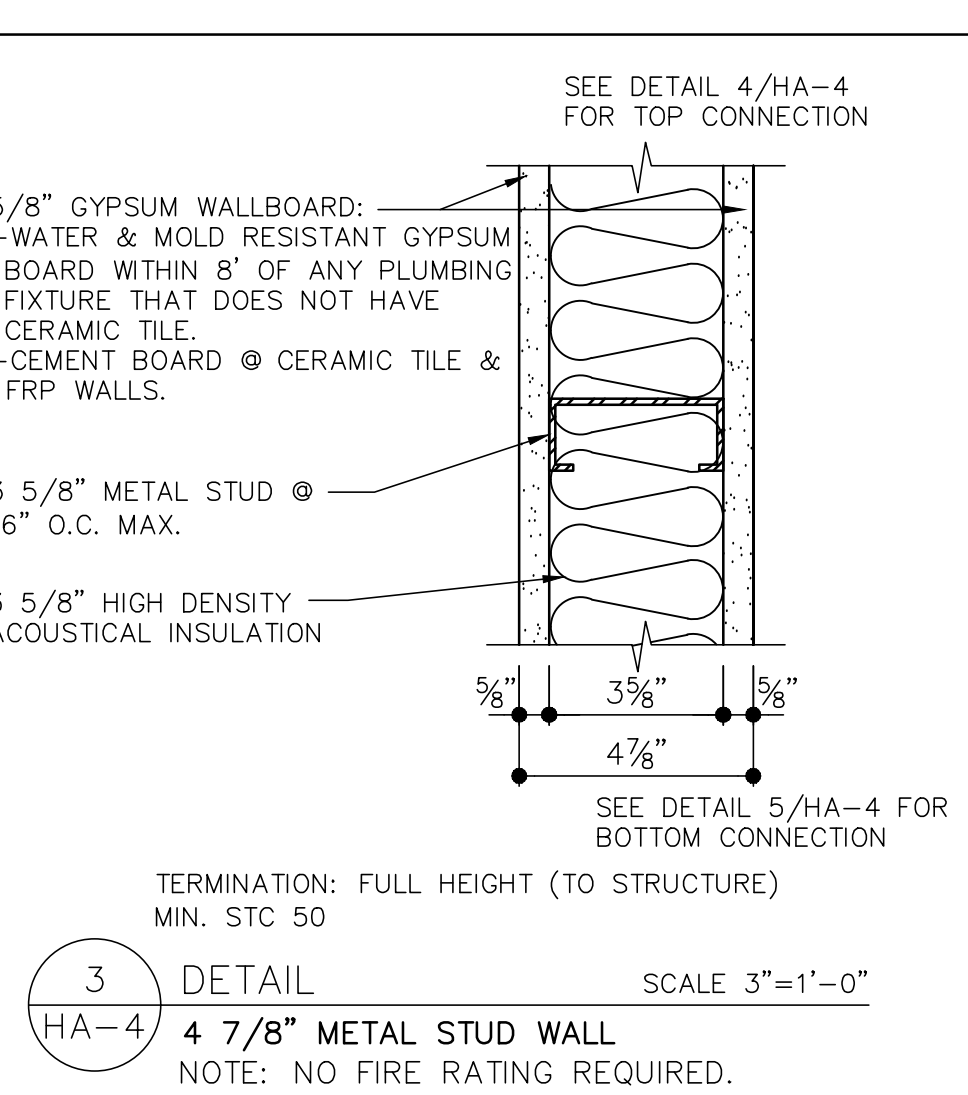
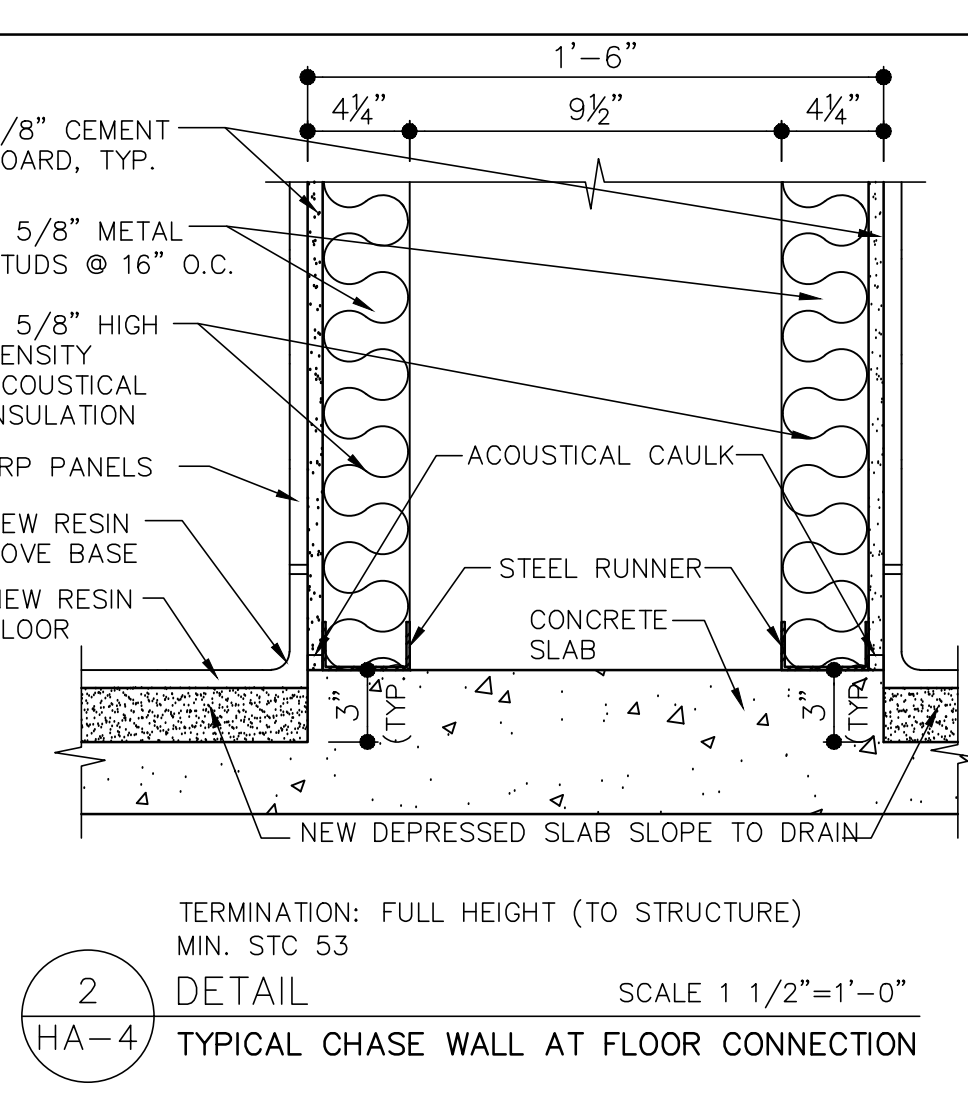
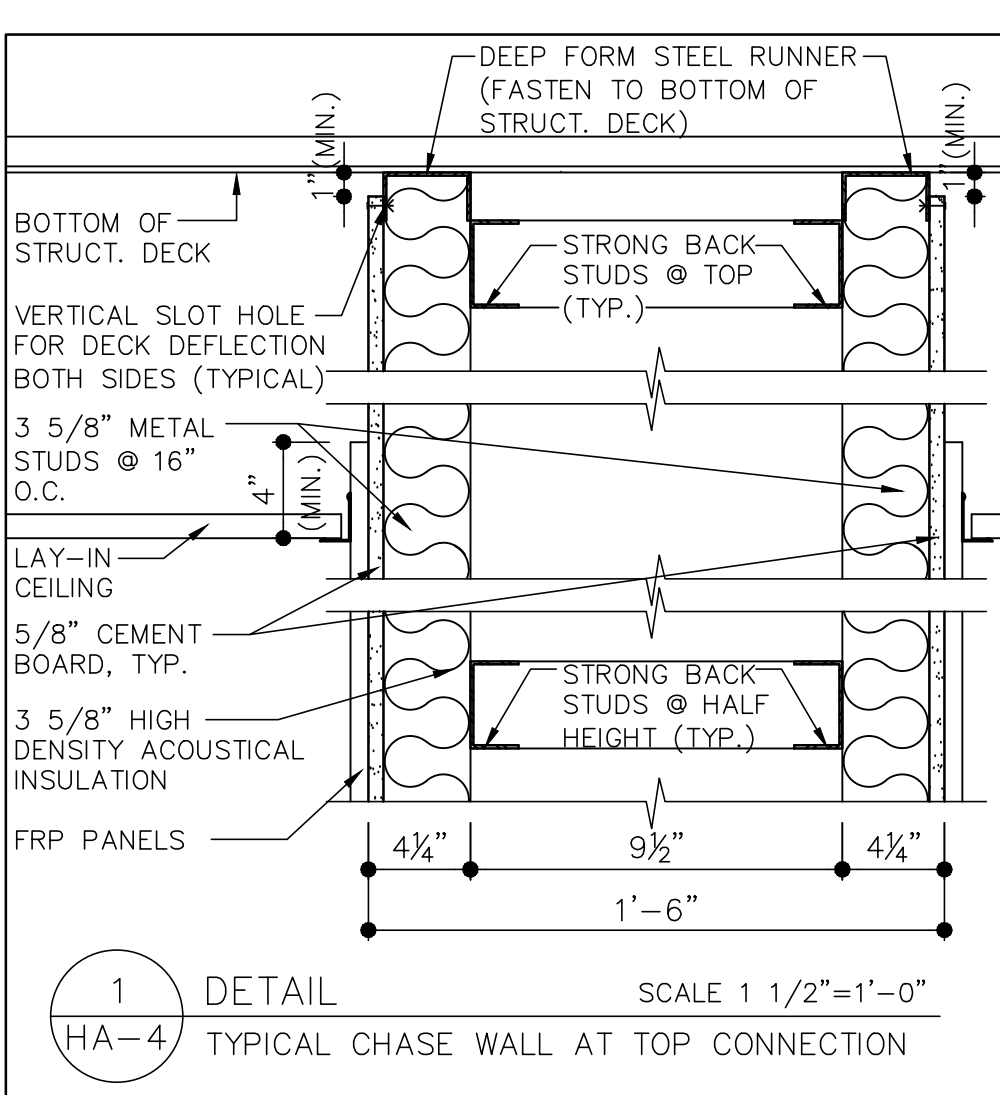
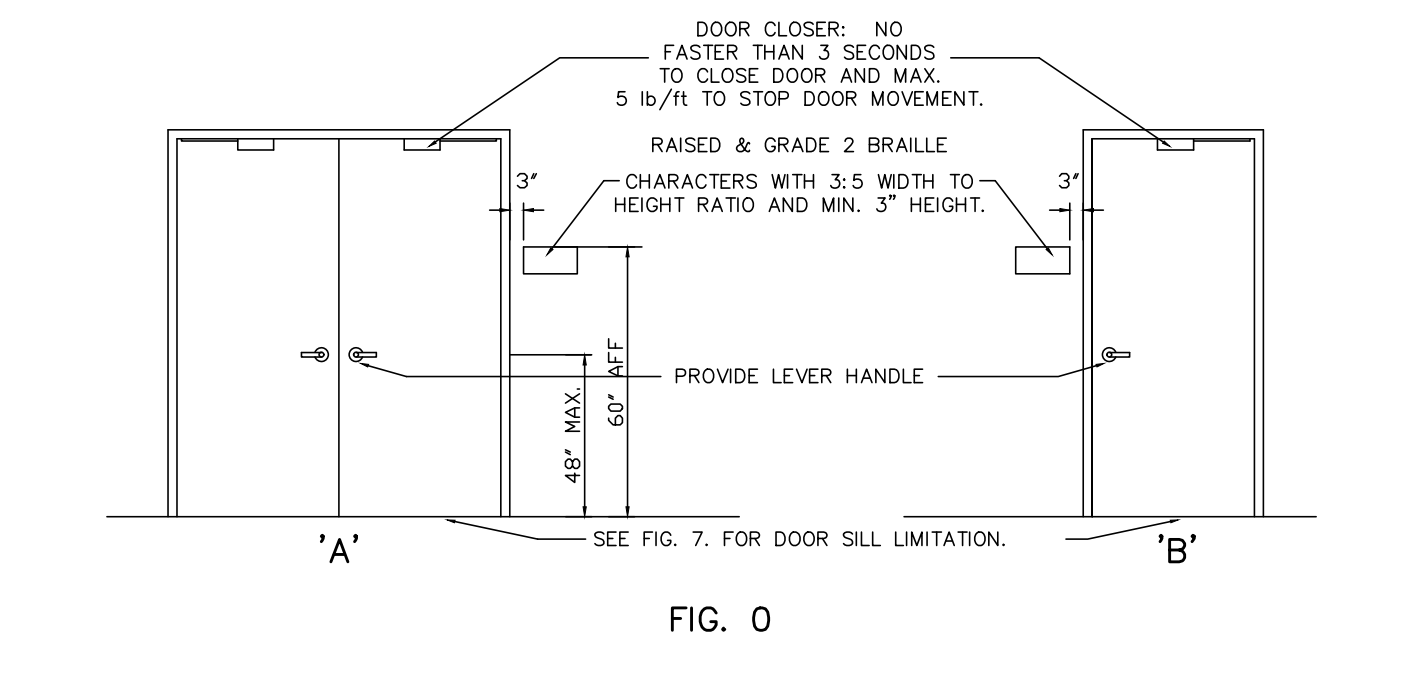
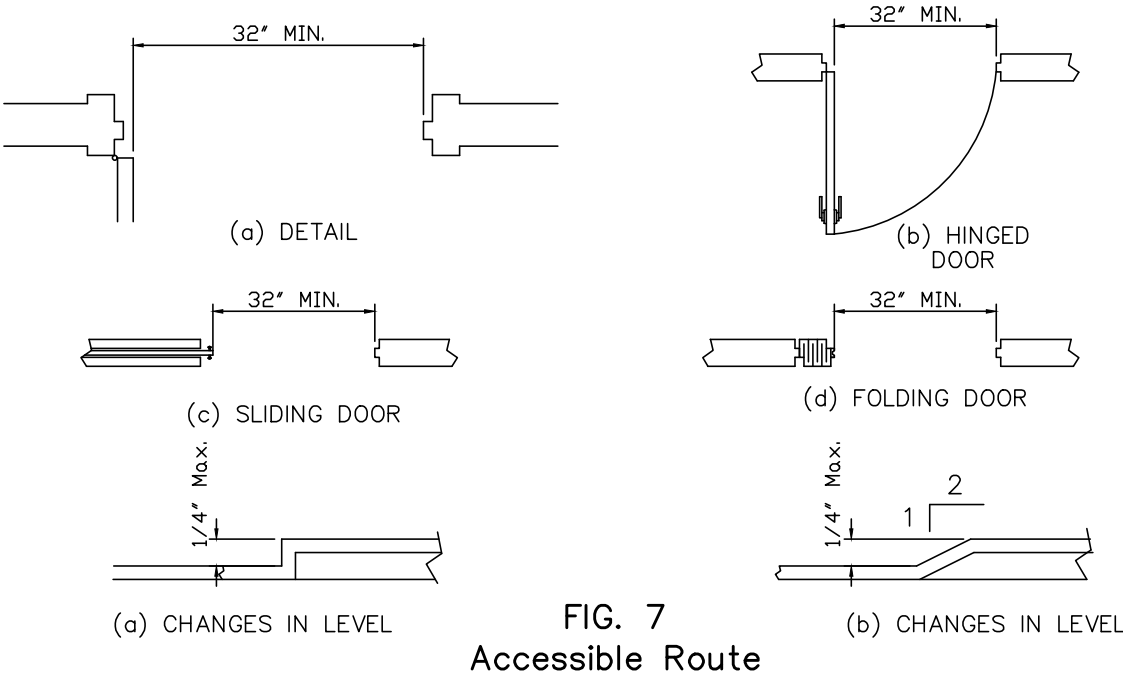
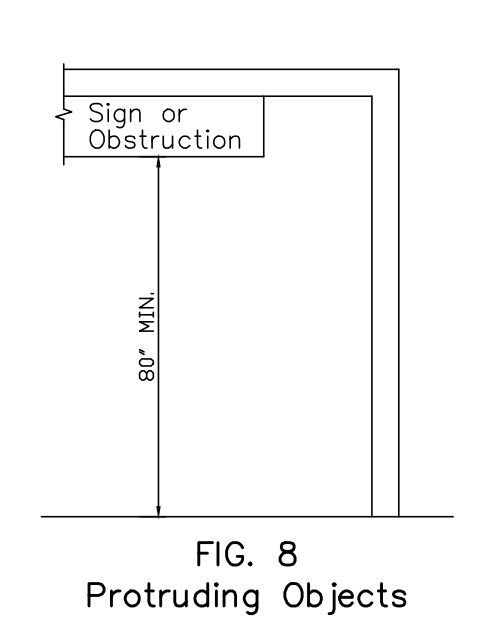
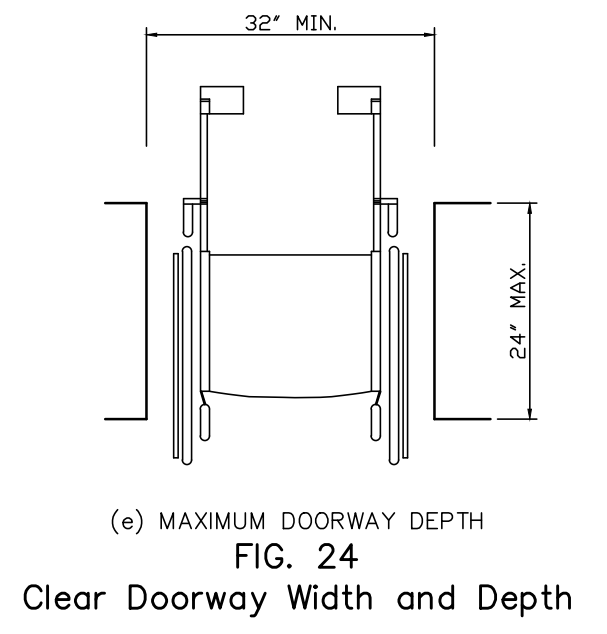
SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL & SITE DRAWINGS FOR ITEMS LISTED BY EACH TRADE.

UNLESS NOTED OTHERWISE, ALL ITEMS SHALL BE BY THE GENERAL CONTRACTOR.

ENTRANCE DOORS & OTHER DOORS IN SPACE

PROVIDE ENTRANCE DOOR AS "A" AND "B" FIG. 0. FROM ALL CORR. & LOBBIES PROVIDE OTHER DOORS IN SPACE AS "A" AND "B", FIG. 0. FROM ROOMS TO OTHER AREAS.

* INDICATE ADDITIONAL ITEMS, IF APPLICABLE TO THOSE DOORS. ALL DOORS SHALL HAVE CLEAR WIDTH AS SHOWN ON FIG. 24 & SILL HEIGHT LIMIT AS FIG. 7 SHOWN. DOOR HARDWARE SHALL BE NOTED ON FIG. 0.



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CAPE MAY, NEW JERSEY 08204

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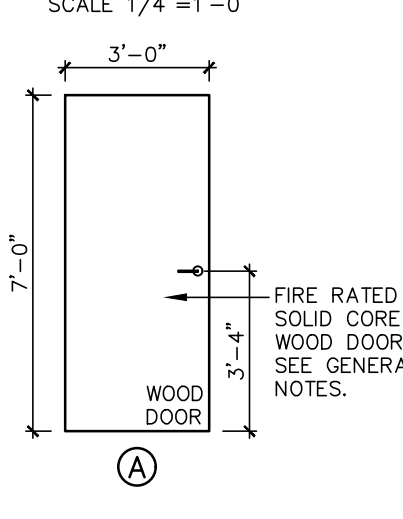
a.	e.
b.	f.
c.	g.

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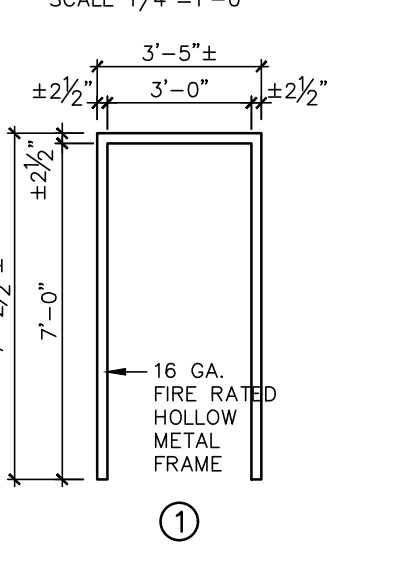
ROOM FINISH SCHEDULE & WALL TYPES
HA-4

DOOR AND FRAME SCHEDULE														REMARKS									
DR. NO.	FROM ROOM NO.	TO ROOM NO.	ROOM NAME	DOOR							HARDWARE SET NO.	FRAME					FIRE RATING (LABEL)	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)	NEW HOLLOW METAL FRAME (SEE GENERAL NOTE #2)	NEW A.D.A. DOOR HARDWARE (SEE GENERAL NOTE #3)			
				SIZE		MATERIAL	GAGE	TYPE	GLASS			THRESHOLD	MATERIAL	GAGE	DEPTH	TYPE					DETAILS SEE HA-5		
WIDTH	HEIGHT				TYPE				THICKNESS	SIZE										HEAD	JAMB	SILL	
BASE BID																							
BT-01	BT-01	CORR.	BOYS	3'-0"	7'-0"	WD	-	A	-	-	MARBLE	-	HM	16	4 3/4"	1	1	2	3	20	✓	✓	✓
GT-01	GT-01	CORR.	GIRLS	3'-0"	7'-0"	WD	-	A	-	-	MARBLE	-	HM	16	4 3/4"	1	1	2	3	20	✓	✓	✓
GT-02	GT-02	CORR.	GIRLS	3'-0"	7'-0"	WD	-	A	-	-	MARBLE	-	HM	16	4 3/4"	1	1	2	3	20	✓	✓	✓
BT-02	BT-02	CORR.	BOYS	3'-0"	7'-0"	WD	-	A	-	-	MARBLE	-	HM	16	4 3/4"	1	1	2	3	20	✓	✓	✓

DOOR TYPES:

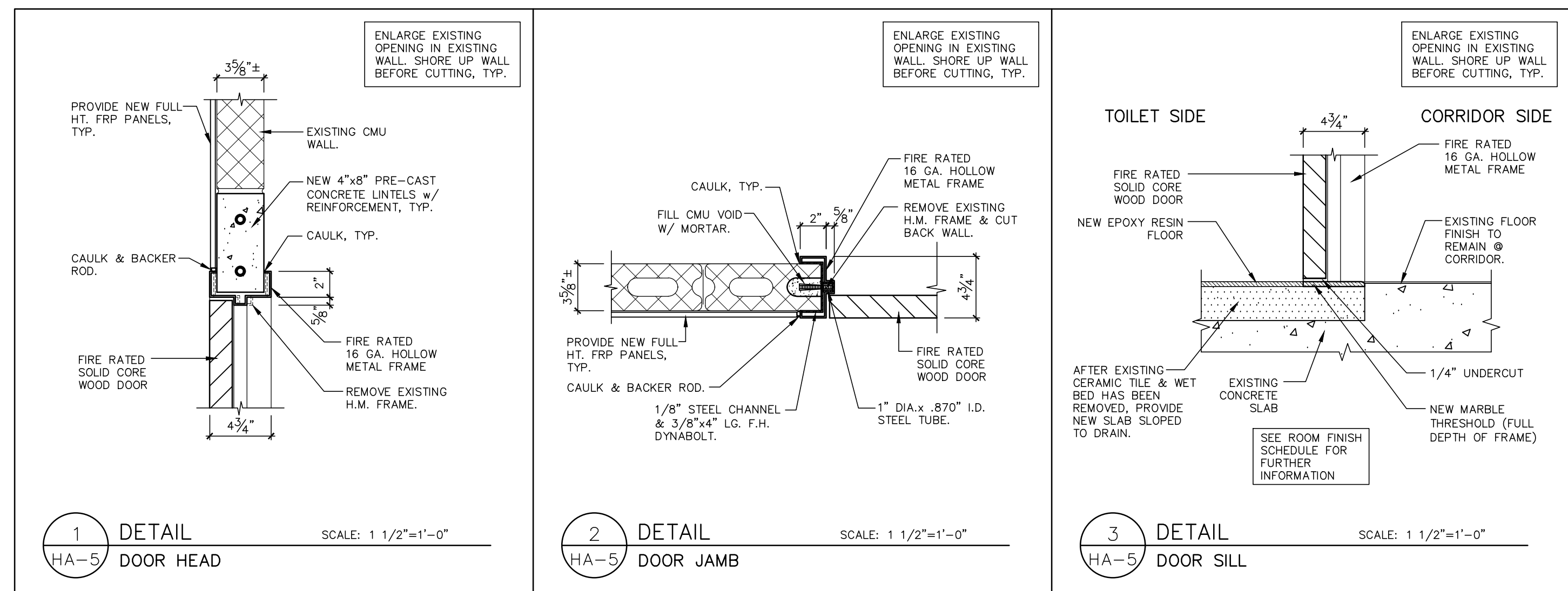


FRAME TYPES:



- GENERAL NOTES:**
1. ALL NEW WOOD DOORS SHALL BE SOLID CORE WOOD, FINISH TO BE SELECTED BY ARCHITECT.
 2. ALL NEW HOLLOW METAL FRAMES SHALL BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
 3. ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH UCC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1-2009.
 4. ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (+) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
 5. PROVIDE A FLUSH FILLED FINISH AT ALL DOOR FRAMES THAT REQUIRE MASONRY ANCHORS WITH DIMPLES, TYP.
 6. WOODEY OR REFURBISH ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION.

ALL NEW INTERIOR DOORS SHOWN ON THE DOOR SCHEDULE SHALL RECEIVE NEW SIGNAGE



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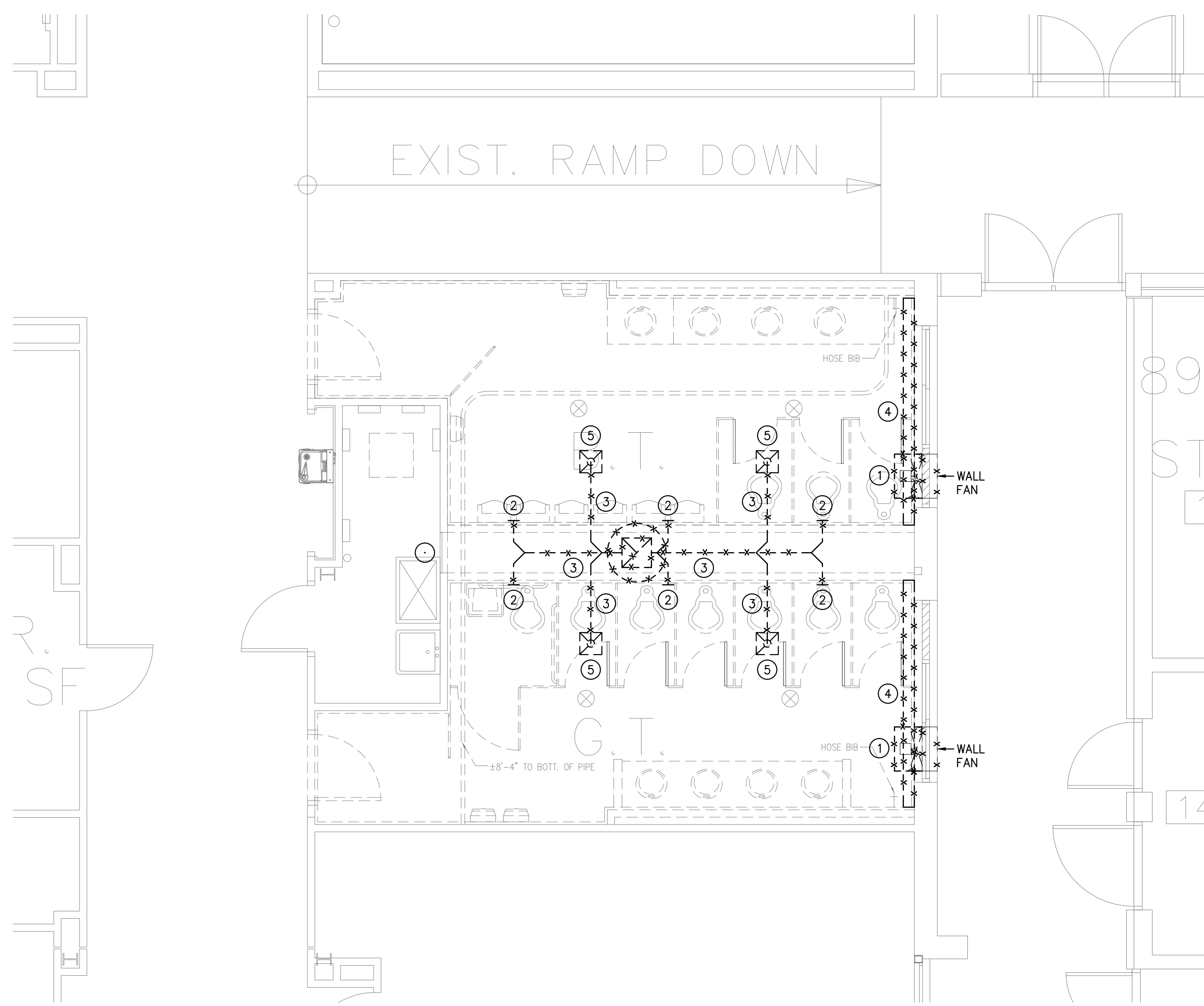
Project N6-94 H.S.
 Date: 01-29-19
 Scale: AS NOTED

DOOR & FRAME SCHEDULE, TYPE & DETAILS
HA-5

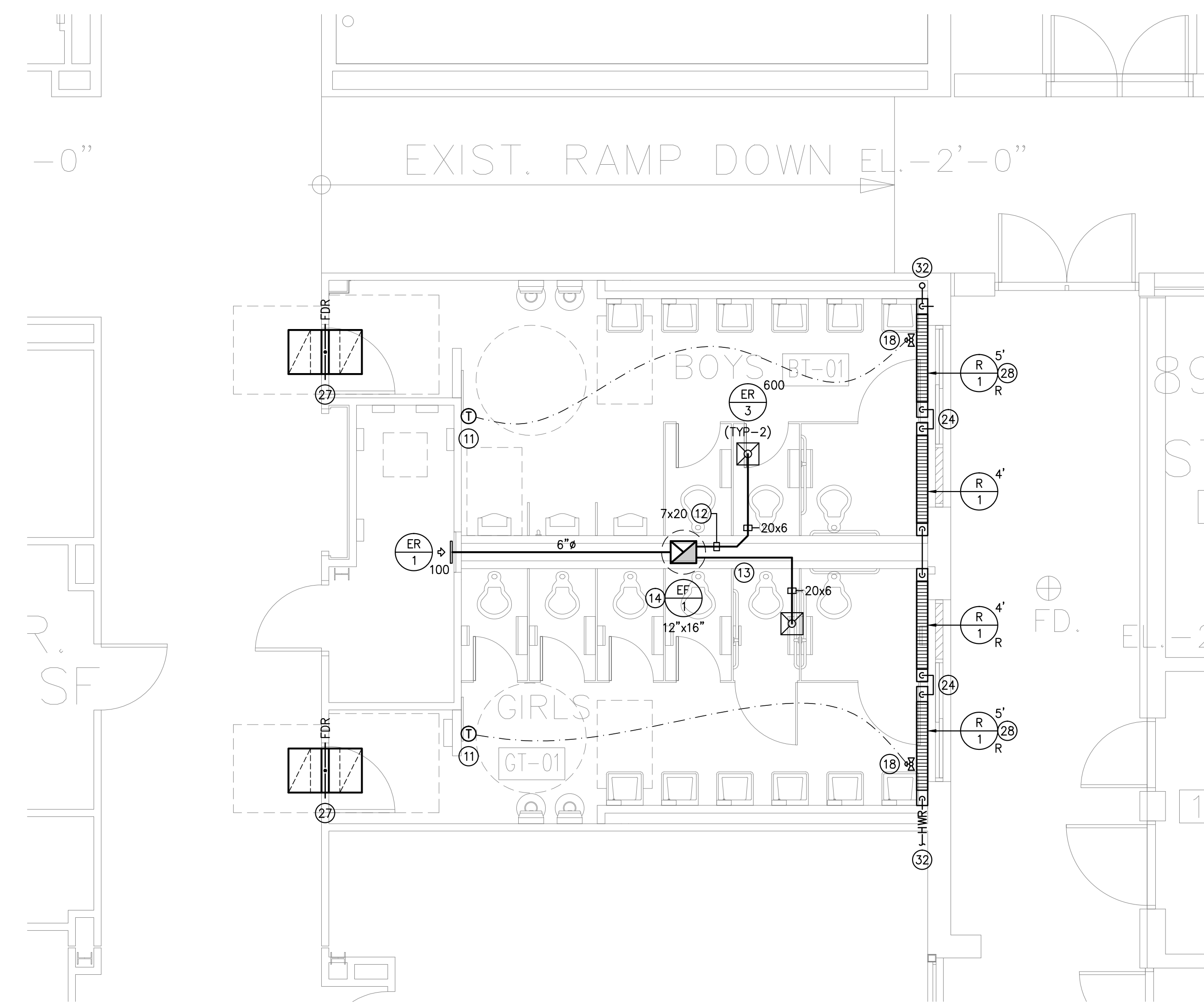
MULHEARN
and ASSOCIATES, Incorporated
321 South York Road
Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
FOR ALL NOTES REFER TO NOTES ON MM-3

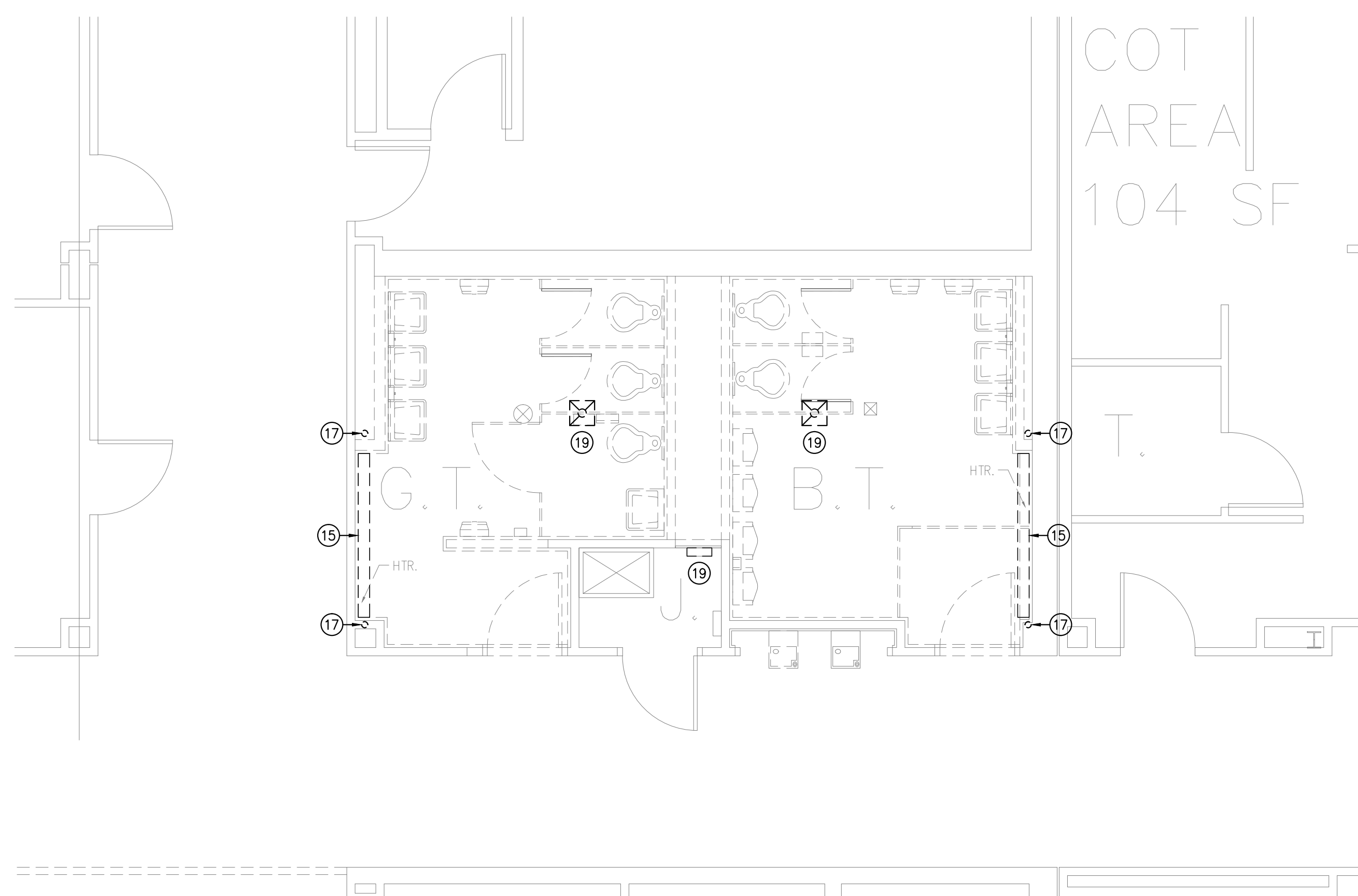
PRIOR TO BIDDING, MECHANICAL CONTRACTOR
TO VISIT SITE PER SPECIFICATION 15010
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.



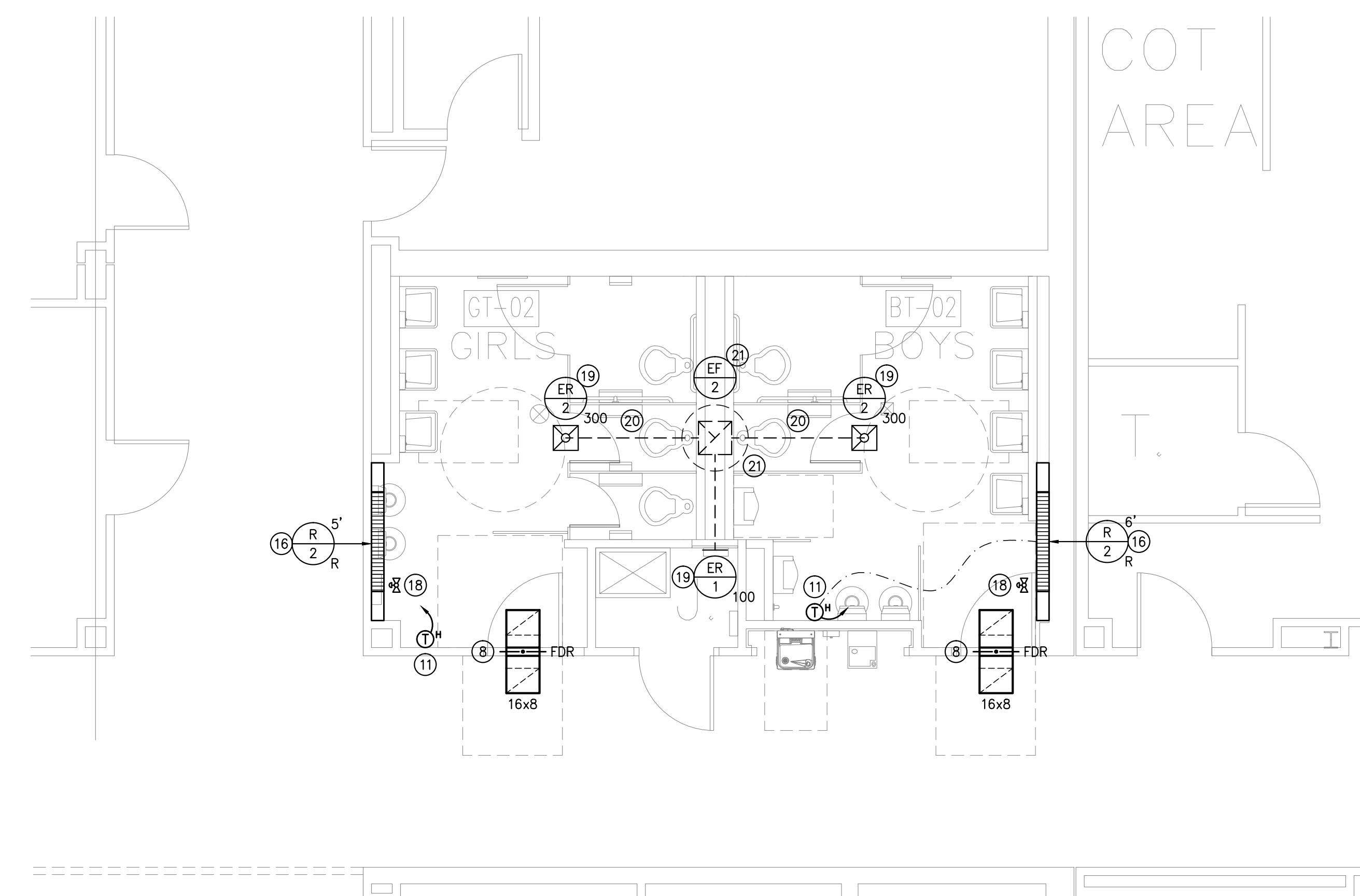
1 MECHANICAL DEMOLITION ENLARGED TOILET ROOM PLAN
HM-1 SCALE: 1/4" = 1'-0"



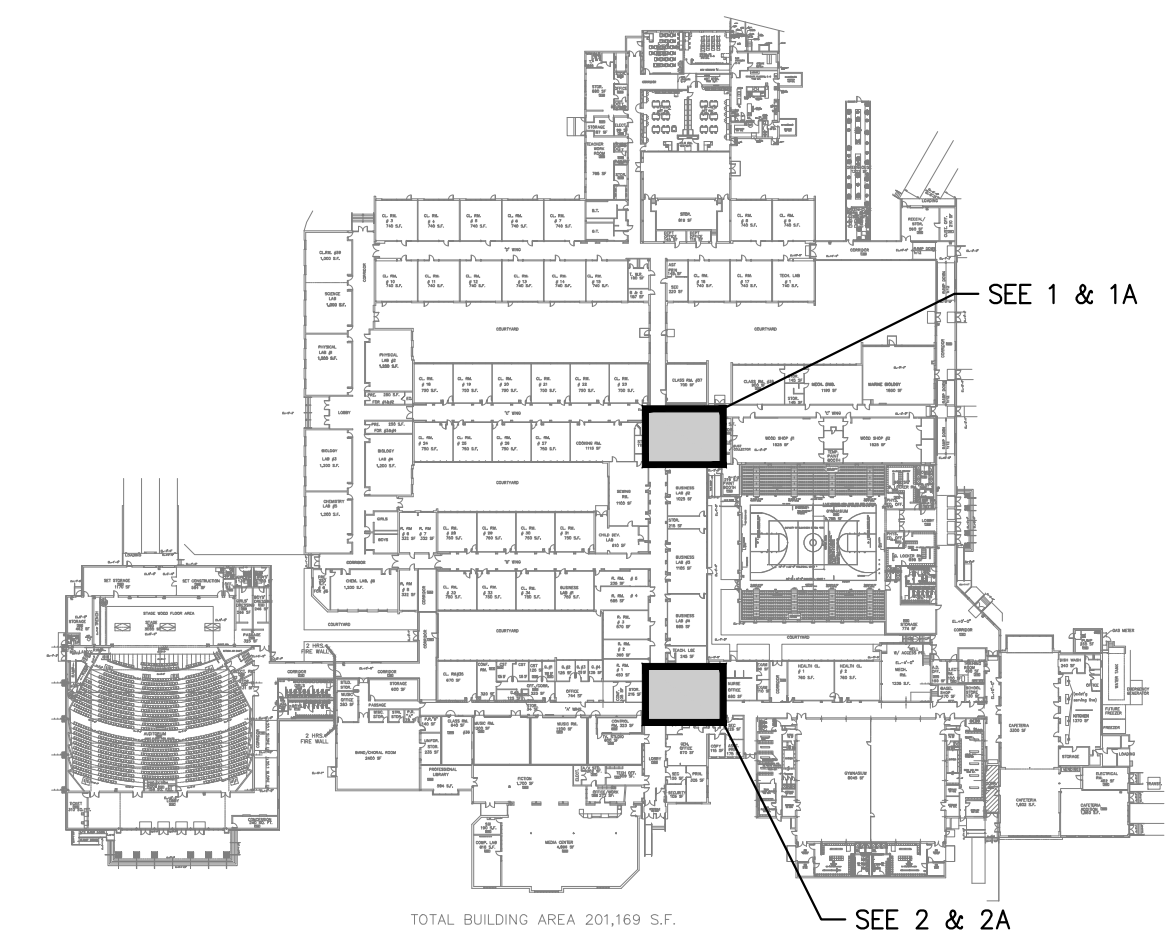
2 MECHANICAL NEW WORK ENLARGED TOILET ROOM PLAN
HM-1 SCALE: 1/4" = 1'-0"



3 MECHANICAL DEMOLITION ENLARGED TOILET ROOM PLAN
HM-1 SCALE: 1/4" = 1'-0"



4 MECHANICAL NEW WORK ENLARGED TOILET ROOM PLAN
HM-1 SCALE: 1/4" = 1'-0"



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MECHANICAL ENLARGED TOILET PLANS

HM-1

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Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
Fax: (215) 293-9214

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PRIOR TO BIDDING, MECHANICAL CONTRACTOR
TO VISIT SITE PER SPECIFICATION 15010
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.

PERIMETER RADIATION SCHEDULE							SYMBOL	R
NO.	TYPE	TUBES HIGH	TUBE SIZE	FINS/FOOT	FIN SIZE	HT. (MIN)	HEATING CAPACITY @200 AVG. TEMP. BTU/LF	REMARKS
1	COPPER TUBE ALUM. FIN.	1	4"xSQ	50	4"xSQ	11"	1180	JVB-S TYPE C 143.5 ELEMENT
2	COPPER TUBE ALUM. FIN.	1	1 1/4"	50	4"x3/8"	20"	1320	JVB-S TYPE C 143.5 ELEMENT
3	COPPER TUBE ALUM. FIN.	1	1 1/4"	50	4"x3/8"	19 1/2"	1385	STERLING JVB-55 DOUBLE SLOPE

NOTES:
ENCLOSURES SHALL BE CONTINUOUS WALL TO WALL WITHEND CAPS DAMPERS, SPLICE PLATES & COLUMN ENCLOSURES.
XX INDICATES ACTIVE LENGTH OF ELEMENT
INDICATES RADIATION TYPE
R INDICATES RETURN IN ENCLOSURE

MECHANICAL NOTES

- EXISTING WALL FAN TO BE REMOVED. REMOVE ALL APPURTENANCES. PROVIDE NEW WALL PANEL.
- EXISTING EXHAUST GRILLE IN WALL TO BE REMOVED.
- EXISTING EXHAUST DUCT TO BE REMOVED. EXISTING EXHAUST FAN ON ROOF CURB TO REMAIN AND PROVIDE NEW FAN. VERIFY EXACT LOCATION IN FIELD.
- EXISTING RADIATION TO BE REMOVED. REMOVE ALL PIPE AND APPURTENANCES.
- EXISTING ACCESS DOOR TO BE REMOVED.
- NEW EXHAUST DUCT.
- NEW EXHAUST REGISTERS.
- PROVIDE NEW TRANSFER DUCT 16"x8" (BLOCK SIZE) WITH 2 RG-1; ONE IN WALL, ONE IN NEW CEILING. PROVIDE FIRE DAMPER AT WALL. WHERE SPACE IN CEILING IS NOT AVAILABLE IN CORRIDOR CEILING, PROVIDE 16"x8" GRILLE ON CORRIDOR SIDE.
- PROVIDE NEW FINNED TUBE RADIATION.
- PROVIDE NEW CONTROL VALVE.
- PROVIDE NEW THERMOSTAT WITH SHEET METAL GUARD.
- DUCT RISE UP. OFFSET DUCT THRU WALL ABOVE CEILING TO NEW GRILLE.
- 16"x12" EXHAUST DUCT UP TO 16"x16" NEW ROOF OPENING FOR NEW FAN. BLANK OFF PORTION OF OPENING NOT USED.
- EXISTING RADIATION 20" HIGH, ENCLOSURE 12" AFF WITH PIPE FEED FROM CRAWL SPACE. PIPE AND RADIATION TO BE REMOVED.
- NEW RADIATION CONNECT NEW PIPE TO EXISTING PIPE AT FLOOR. ENCLOSE NEW PIPE IN SHEET METAL ENCLOSURE.
- PIPE DOWN TO CRAWL SPACE. VERIFY LOCATION SIZE AND DUTY (SUPPLY/RETURN).
- NEW CONTROL VALVE IN ENCLOSURE. INCREASE ENCLOSURE SIZE. FOR VALVE INSTALLATION, PROVIDE ACCESS PANEL.
- EXISTING GRILLE TO BE REMOVED AND REPLACED WITH NEW GRILLE. VERIFY LOCATION AND SIZE IN FIELD.
- EXISTING DUCT TO REMAIN. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- EXISTING FAN TO BE REMOVED AND REPLACED WITH NEW FAN. VERIFY EXACT LOCATION, SIZE, CONDITION AND ROOF CURB DIMENSIONS. PROVIDE CURB ADAPTER.
- EXISTING TO REMAIN, ITEM AS INDICATED. VERIFY IN FIELD, PROTECT DURING CONSTRUCTION.
- TEMPORARILY REMOVE EXISTING RADIATION ON WALL AT CEILING. CAP IPE. REINSTALL AFTER NEW WALL AND CHASE CONSTRUCTION. ADJUST PIPE LOCATION AND CONNECT TO EXISTING PIPE.
- OFFSET LINE INTO BLOCK WALL AT TOILET PARTITION FINISHED WALL.
- EXISTING PERIMETER RADIATION TO BE REMOVED. RADIATION 37" AFF AND 20" HIGH ENCLOSURE, REMOVE ALL PIPE.
- REMOVE EXISTING EXHAUST REGISTER AND INSTALL IN NEW CEILING AND CONNECT TO NEW DUCT AFTER NEW CEILING WORK IS DONE.
- PROVIDE NEW 24"x8" TRANSFER DUCT THRU EXISTING WALL WITH NEW LINTEL, 2 - RG-2 AND FIRE DAMPER. NOTE - WHERE SPACE IS NOT AVAILABLE IN CORRIDOR CEILING, PROVIDE RG-3 24"x8" ON CORRIDOR WALL.
- LOCATE RADIATION BELOW GLASS. (GLASS AT APPROXIMATELY 6" AFF). COORDINATE EXACT HEIGHT IN FIELD (WITH TOILET ACCESSORIES).
- CONNECT NEW DUCT TO EXISTING DUCT. VERIFY SIZE AND LOCATION IN FIELD.
- EXISTING DUCT TO BE REMOVED.
- EXISTING HOT WATER PIPE TO REMAIN.
- CONNECT NEW HOT WATER PIPE TO EXISTING PIPE. VERIFY EXACT LOCATION IN FIELD. CONTRACTOR SHALL VERIFY SHUTOFF VALVE AND LOCATION IN FIELD.
- NEW RADIATION AT CEILING. ALL PIPE CONCEALED IN RADIATION ENCLOSURE.
- RADIATION ENCLOSURE TO BE INTERRUPTED AT TOILET ENCLOSURE. OFFSET PIPE ABOVE CEILING.
- NEW BALANCING VALVE.
- BYPASS LINE ABOVE CEILING.
- NEW 14"x6" DUCT UP FROM FIRST FLOOR WITH FIRE DAMPER AT FLOOR.
- NEW DUCT OFFSET AT CEILING. NOTE EXPOSED DUCT PAINT COLOR SELECTED.
- NEW DUCT UP THRU EXISTING ROOF TO NEW FAN ON ROOF. DUCT FULL SIZE OF FAN OPENING.
- NEW 16"x8" TRANSFER DUCT THRU EXISTING WALL WITH FIRE DAMPER. NOTE - REMOVE ONE BLOCK. PROVIDE 2 RG-1 IN CEILINGS.
- NEW EXHAUST REGISTER IN CEILING CONNECT TO EXISTING DUCT.
- REMOVE EXISTING DUCT. PATCH EXISTING DUCT TO REMAIN. VERIFY ALL CONDITIONS IN FIELD.

MECHANICAL LEGEND			
A/L	ACOUSTICALLY LINED	C	CONDENSATE PIPE
AP	ACCESS PANEL	HWS	HOT WATER HEATING SUPPLY (SYSTEM)
ACD	ACCESS DOOR	HWR	HOT WATER HEATING RETURN (SYSTEM)
ADR	AUTOMATIC DAMPER	CHWR	CHILLED WATER RETURN (SYSTEM)
BDD	BACK DRAFT DAMPER	CHWS	CHILLED WATER SUPPLY (SYSTEM)
BTJ	BETWEEN THE JOISTS	CWR	CONDENSER WATER RETURN
CS	CHILLED WATER SUPPLY	CWS	CONDENSER WATER SUPPLY
CR	CHILLED WATER RETURN	R	REFRIGERANT PIPE
CD	CEILING DIFFUSER	GV	GATE VALVE
CU	CONDENSING UNIT	CV	CHECK VALVE
DBR	DOWN BLOW REGISTER	RV	RELIEF VALVE
DL	DOOR LOUVER	CVL	CONTROL VALVE
DN	DOWN	AV	AUTOMATIC THREE-WAY VALVE
DX	DIRECT EXPANSION COIL	GV	GLOBE VALVE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EF	EXHAUST FAN	AV	AUTOMATIC TWO-WAY VALVE
EG	EXHAUST GRILLE	EBV	PLUG OR BALL VALVE
ER	EXHAUST REGISTER	BV	BALANCING VALVE
FDR	FIRE DAMPER	STR	STRAINER
FVAV	FAN POWERED VAV UNIT	UN	UNION
GV	GATE VALVE	HT	HEATING THERMOSTAT
HR	HOT WATER HEATING RETURN	H&C	HEATING & COOLING THERMOSTAT
HS	HOT WATER HEATING SUPPLY	CT	COOLING THERMOSTAT
LAD	LOUVER/AUTO DAMPER	TM	THERMOMETER
LBD	LOUVER/BACKDRAFT DAMPER	PG	PRESSURE GAUGE W/GAUGE COCK
LID	LINEAR DIFFUSER	AV	AUTOMATIC AIR VENT
LMD	LOUVER/MANUAL DAMPER	FC	FLEXIBLE CONNECTION
LVR	LOUVER	NC	NEW CONNECTION TO EXISTING
MUA	MAKEUP AIR UNIT	PO	POINT OF DEMOLITION
MVD	MANUAL VOLUME DAMPER	DR	DUCT REDUCER
OAI	OUTSIDE AIR INTAKE		
RG	RETURN GRILLE		
RR	RETURN REGISTER		
SG	SUPPLY GRILLE		
SF	SUPPLY FAN		
SR	SUPPLY REGISTER		
SDR/FDR	SMOKE/FIRE DAMPER		
TF	TRANSFER FAN		
TWJ	THROUGH WEB OF JOIST		
TYP	TYPICAL (OF QUANTITY)		
UNO	UNLESS NOTED OTHERWISE		
VAV	VARIABLE AIR VOLUME TERMINAL UNIT		
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT		
WMS	WIRE MESH SCREEN		

SUPPLY/EXHAUST FAN SCHEDULE							SYMBOL	EF	SF
NO.	CFM	S.P.	RPM	H.P.	TYPE	REMARKS			
1	1300	0.50	XX	XX	ROOF MOUNTED CENTRIFUGAL	USE 16"x16" ROOF OPENING COOK MODEL			
2	700	0.50	XX	XX	ROOF MOUNTED CENTRIFUGAL	MOUNT ON EXISTING CURB. PROVIDE CURB ADAPTER.			

AIR DEVICE SCHEDULE									
NO.	CD	LID	SR SG	RR RG	ER EG	LAD LBD	WMS	REMARKS	
1	.	.	.	16x8	6x6	.	.	.	
2	.	.	.	24x12	12x6	.	.	.	
3	.	.	.	24x8	16x8	.	.	.	
4	
5	
6	

CD X - INDICATES NUMBER OF BLOWS
XXXX - INDICATES AMOUNT OF CFM

FLEXIBLE DUCT SIZING SCHEDULE			
SIZE	MAXIMUM CFM		REMARKS
	HIGH PRESSURE	LOW PRESSURE	
6"	160	110	XX
8"	320	240	XX
10"	610	420	XX
12"	1000	700	XX
14"	1500	N/A	XX

FLEX DUCT TO BE PULLED TIGHT AND BANDED, WITH A MAXIMUM OF ONE 90° ELBOW, AND A MAXIMUM OF 10'-0" IN LENGTH

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REVISIONS
a. e.
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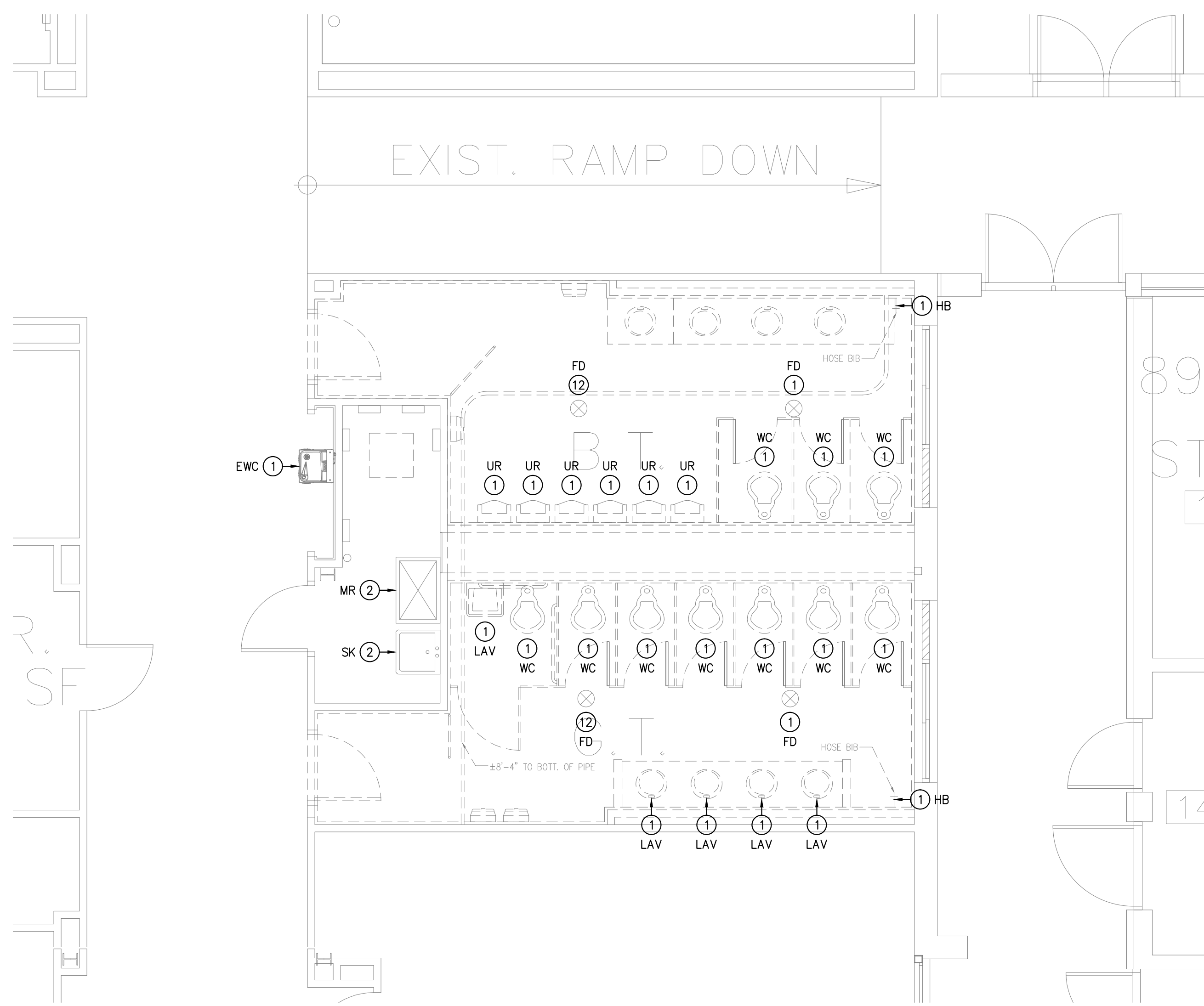
Project N8-94 H.S.
Date: 01-29-19
Scale: AS NOTED

MECHANICAL LEGEND, SCHEDULES & NOTES
HM-2

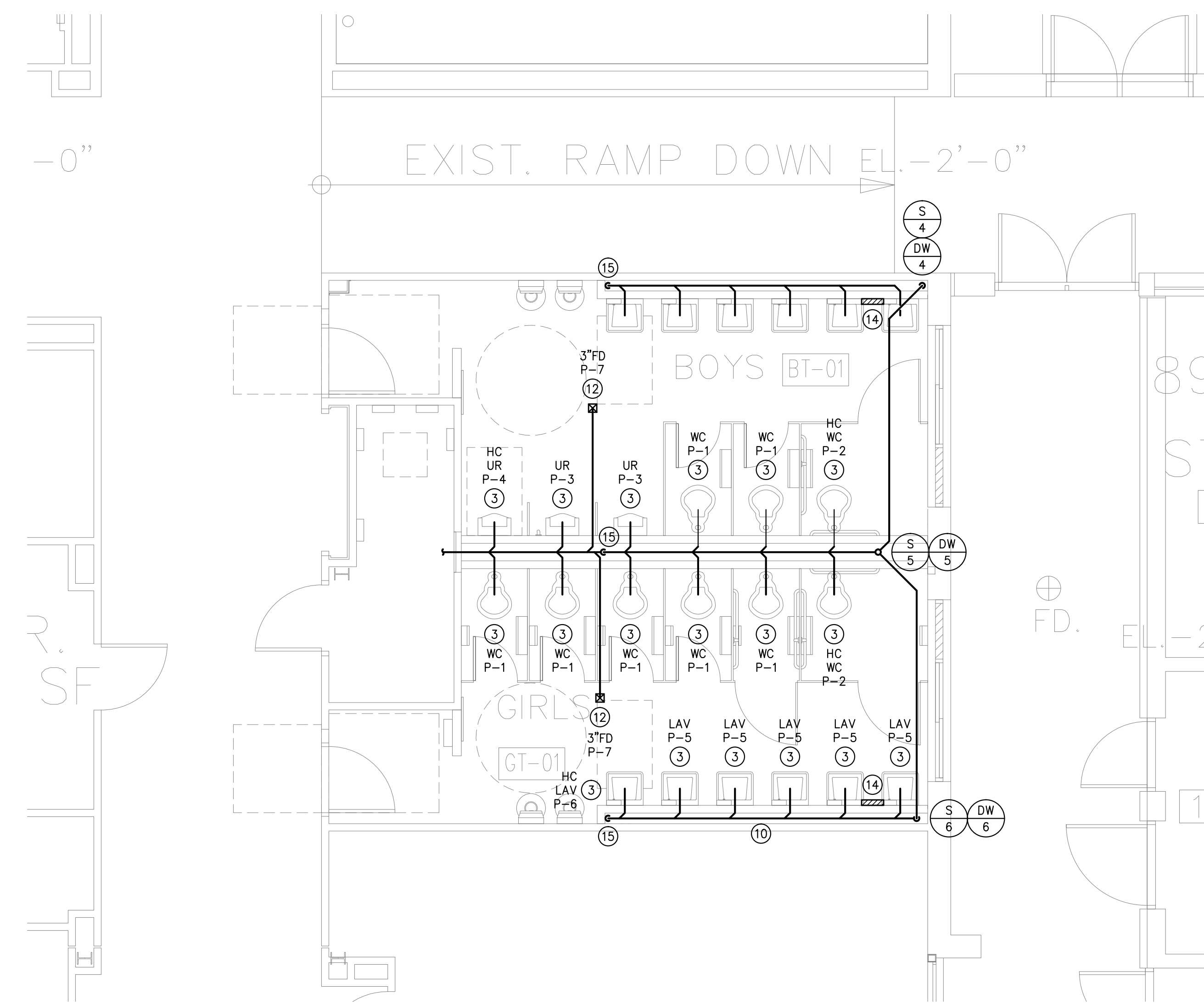
MULHEARN
and ASSOCIATES, Incorporated
 321 South York Road
 Hatboro, Pennsylvania 19040
 Phone: (215) 293-9900
 Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
 FOR ALL NOTES REFER TO NOTES ON MP-3

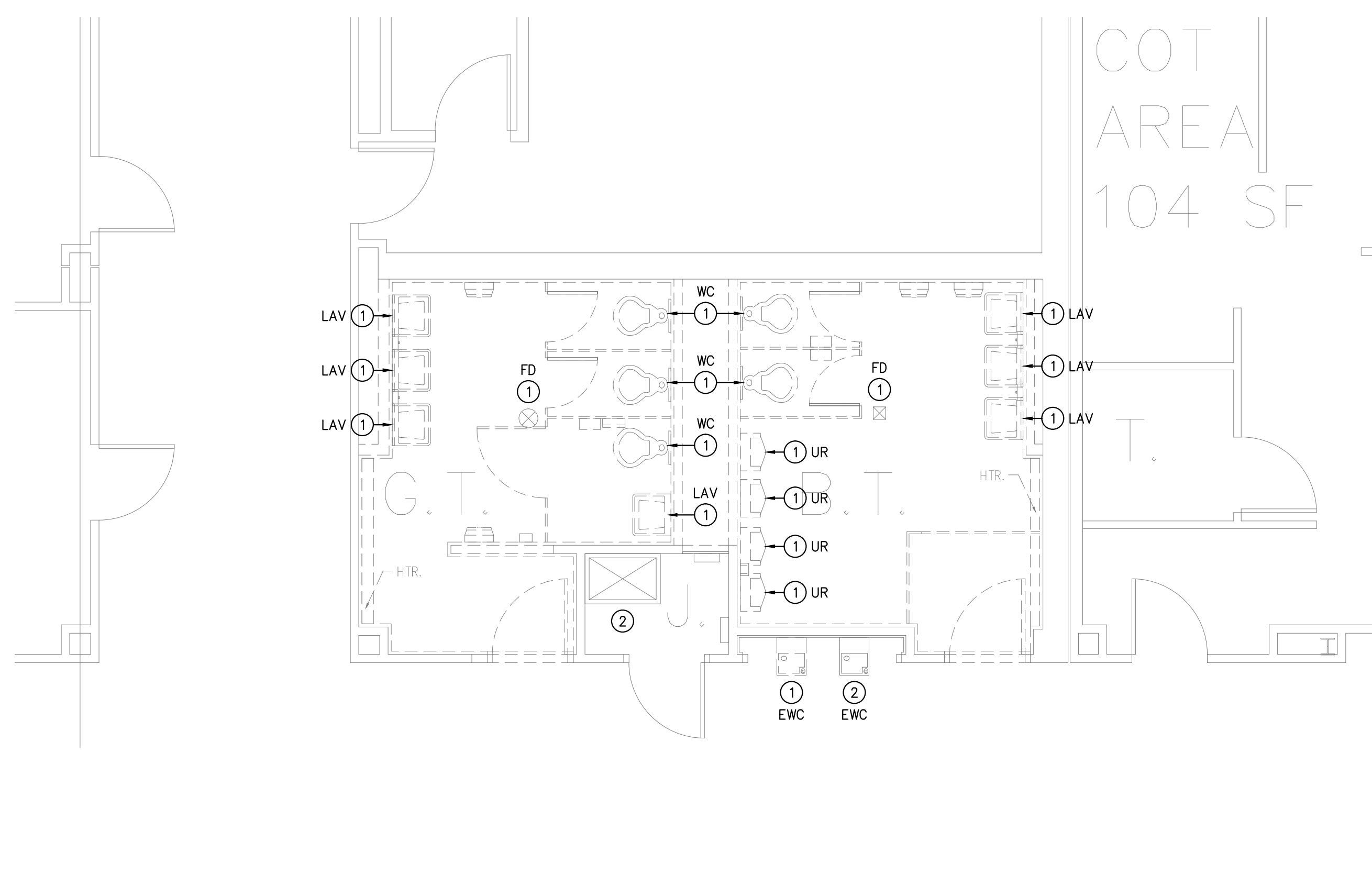
ALL WORK BY PLUMBING CONTRACTOR U.N.O.
 ALL WORK NEW U.N.O.
 ALL WORK BASE BID U.N.O.
 FOR RISER DIAGRAMS SEE SHEET MP-3



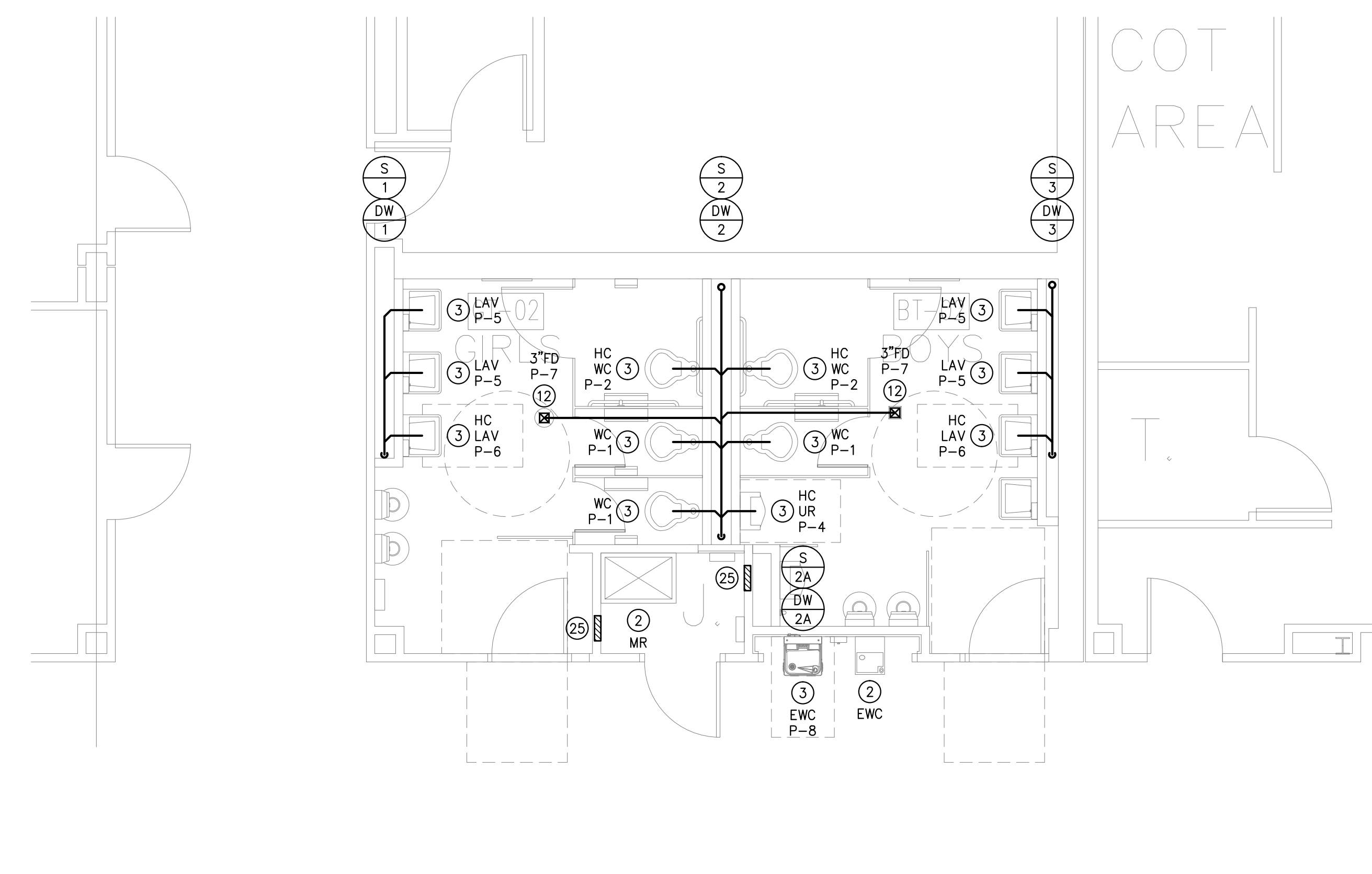
1 PLUMBING DEMOLITION ENLARGED TOILET ROOM PLAN
 HP-1 SCALE: 1/4" = 1'-0"



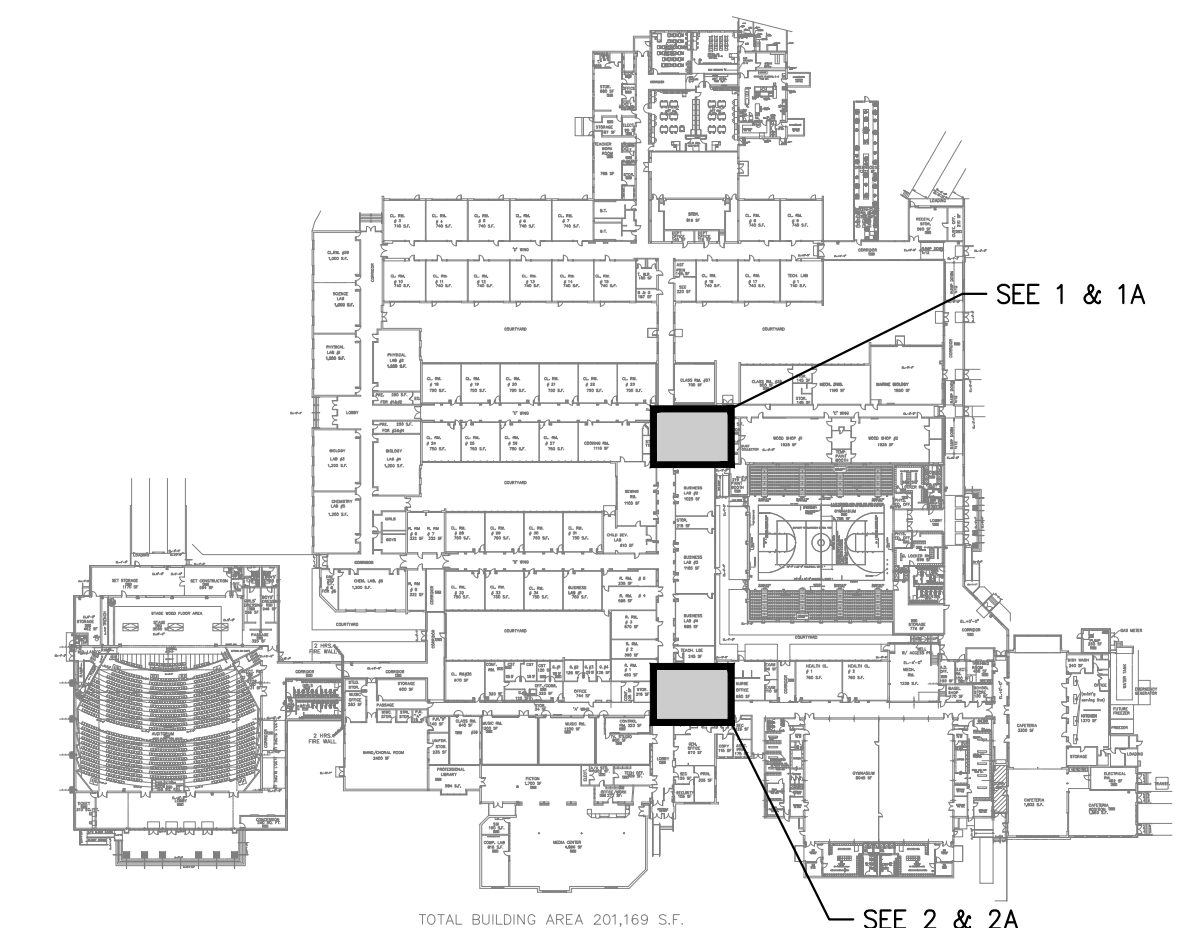
2 PLUMBING NEW WORK ENLARGED TOILET ROOM PLAN
 HP-1 SCALE: 1/4" = 1'-0"



3 PLUMBING DEMOLITION ENLARGED TOILET ROOM PLAN
 HP-1 SCALE: 1/4" = 1'-0"



4 PLUMBING NEW WORK ENLARGED TOILET ROOM PLAN
 HP-1 SCALE: 1/4" = 1'-0"



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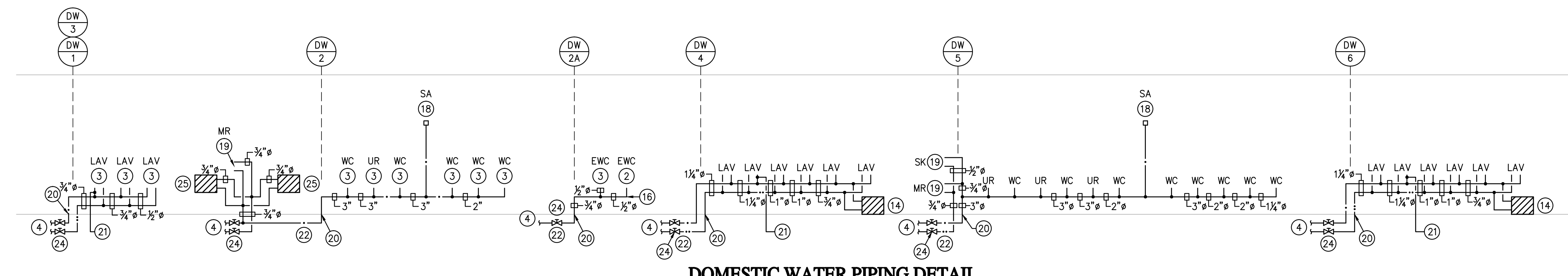
PLUMBING ENLARGED TOILET PLANS

HP-1

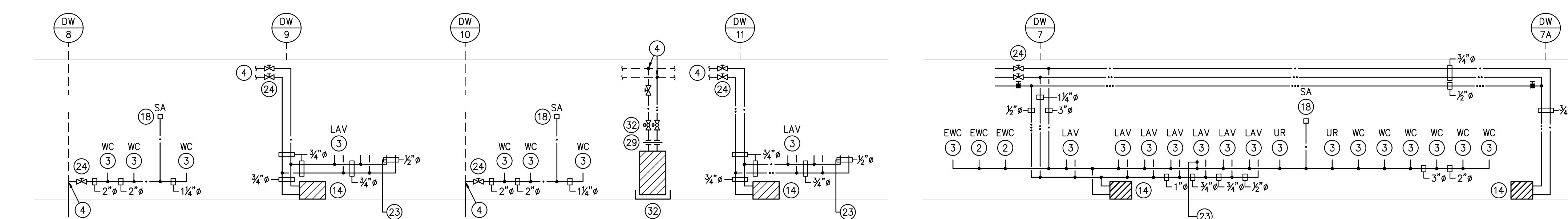
ISSUED FOR BID: 01-29-19

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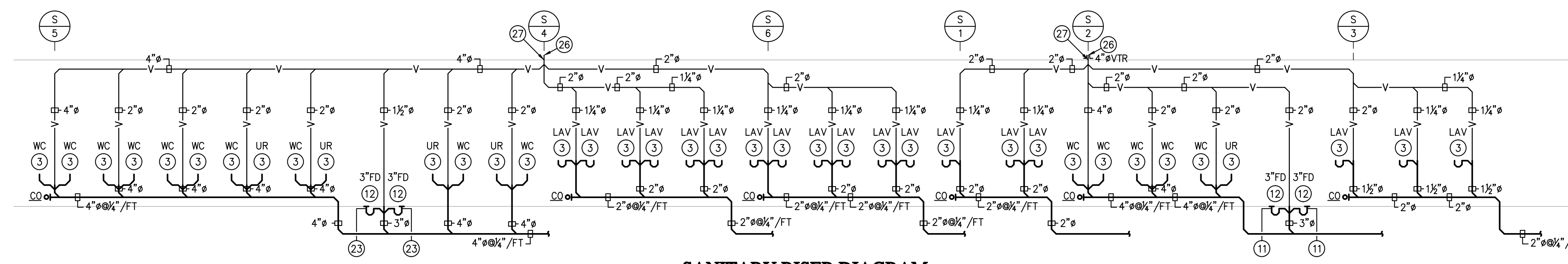
ALL WORK BY PLUMBING CONTRACTOR U.N.O.
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.
FOR RISER DIAGRAMS SEE SHEET MP-3



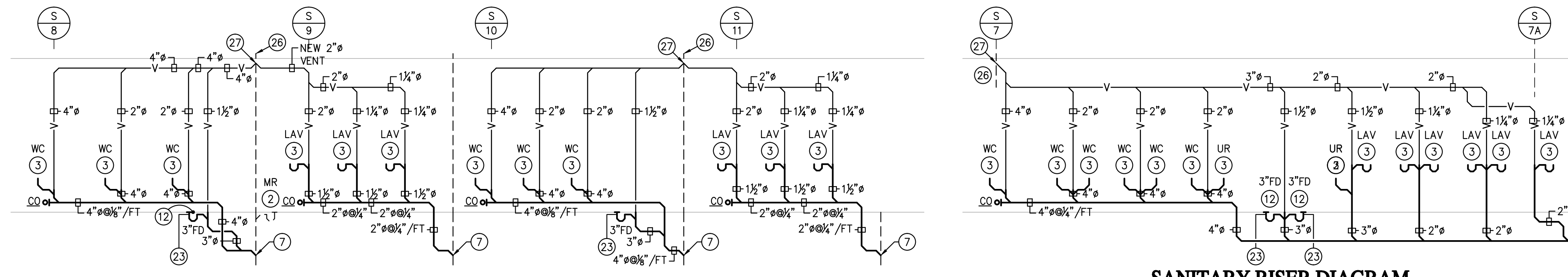
DOMESTIC WATER PIPING DETAIL
SCALE: NO SCALE



DOMESTIC WATER PIPING DETAIL
SCALE: NO SCALE



SANITARY RISER DIAGRAM
SCALE: NO SCALE



SANITARY RISER DIAGRAM
SCALE: NO SCALE

PLUMBING LEGEND			
3CS	(3) COMPARTMENT SINK	— A —	COMPRESSED AIR
ACD	ACCESS DOOR	— C —	COLD WATER
AD	AREA DRAIN	— D —	DOMESTIC HOT WATER
BT	BATHTUB	— H —	DOMESTIC HOT WATER RETURN
CQ	CLEANOUT	— S —	SANITARY SEWER
DC	DENTAL CHAIR	— V —	VENT PIPING
DN	DOWN	— F —	FIRE PROTECTION PIPE
DF	DRINKING FOUNTAIN	— VAC —	VACUUM PIPE
DSW	DISHWASHER	— DCA —	DENTAL COMPRESSED AIR
DSHR	DISHWASHER	— AR —	ACID RESISTANT PIPE
EWC	ELECTRIC WATER COOLER	— ARV —	ACID RESISTANT VENT
FH	FUME HOOD	— X —	SPRINKLER HEAD
FPS	FOOD PREP SINK	— C —	CLEANOUT
FS	FLOOR SINK	— 3 —	AUTOMATIC THREE-WAY VALVE
GS	GREASE INTERCEPTOR	— G —	GLOBE VALVE
HCLS	HANDICAPPED LAB STATION/SINK	— R —	RELIEF VALVE
HD	HUB DRAIN	— 2 —	AUTOMATIC TWO-WAY VALVE
HS	HAND SINK	— 1 —	GLOBE VALVE
HTUB	HYDRO THERAPY TUB	— P —	PRESSURE REDUCING VALVE
HWS	HAIR WASH SINK	— A —	AUTOMATIC TWO-WAY VALVE
IS	INSTRUCTORS TABLE/SINK	— S —	STRAINER
LAV	LAVATORY	— SC —	SIAMOSE CONNECTION
LS	LAB STATION/SINK	— U —	UNION
MR	MOP RECEPTOR	— T —	THERMOMETER
MOP	MOP RECEPTACLE	— P —	PRESSURE GAUGE W/GAUGE COCK
MR	MOP RECEPTACLE	— WH(HB) —	WALL HYDRANT (HOSE BIBB)
MH	MANHOLE	— N —	NEW CONNECTION TO EXISTING
MV	MIXING VALVE	— D —	POINT OF DEMOLITION
OI	OIL INTERCEPTOR	— SA —	SHOCK ABSORBER
PEDSK	PEDICURE SINK	— B —	BALANCING VALVE
PS	PREP ROOM SINK		
RWC	RAINWATER CONDUCTOR		
SHWR	SHOWER		
SI	SAND INTERCEPTOR		
STK	STACK		
SS	SERVICE SINK		
UNO	UNLESS NOTED OTHERWISE		
UR	URINAL		
V	VENT		
VTR	VENT TO ROOF		
WC	WATER CLOSET		
WS	WASH STATION		

PLUMBING FIXTURE CONNECTION SCHEDULE							
FIXTURE TYPE	ABBREV	FIXTURE UNIT VALUE	CONNECTION SIZES			REMARKS	
			(TRAP) SAN	VENT	HW		CW
WATER CLOSET	WC	6	4	2	—	1 1/2	FLUSH VALVE
URINAL	UR	4	3	1 1/2	—	1	
LAVATORY	LAV	1	1 1/4	1 1/4	1/2	1/2	
SHOWER	SHWR	2	2	2	1/2	1/2	
MOP RECEPTOR	MR	3	3	3	3/4	3/4	
ELECTRIC WATER COOLER	EWC	1/2	1 1/4	1 1/4	—	1/2	
SINK	SK	2	1 1/2	1 1/2	1/2	1/2	
FLOOR DRAIN	FD	4	4	2	—	—	DEEP SEAL TRAP

- PLUMBING NOTES
- EXISTING PLUMBING FIXTURE TO BE REMOVED. REMOVE ALL ASSOCIATED PIPE AND APPURTENANCES. CAP ALL PIPE BEHIND FINISHED SURFACES. TYPE OF FIXTURE AS INDICATED.
 - EXISTING PLUMBING FIXTURE TO REMAIN. VERIFY EXACT LOCATION AND CONDITION IN FIELD.
 - NEW PLUMBING FIXTURE TYPE AS INDICATED.
 - CONNECT NEW DOMESTIC WATER PIPE TO EXISTING PIPE. REPAIR PIPE AND INSULATION.
 - EXISTING DOMESTIC WATER PIPE TO BE REMOVED. REMOVE ALL HANGERS AND APPURTENANCES. CAP ALL PIPE. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
 - EXISTING DOMESTIC WATER PIPE TO REMAIN. VERIFY EXACT LOCATION, PROTECT DURING CONSTRUCTION.
 - CONNECT NEW SANITARY PIPE TO EXISTING SANITARY PIPE. VERIFY EXISTING PIPE LOCATION, REPAIR EXISTING PIPE. REMOVE EXISTING PIPE BACK TO JOINT TO ALLOW FOR NEW CONNECTION.
 - EXISTING SANITARY PIPE TO BE REMOVED. REMOVE ALL APPURTENANCES AND CAP EXISTING PIPE PER CODE. TYPE OF PIPE AND DEPTH TO BE DETERMINED IN FIELD.
 - EXISTING SANITARY PIPE TO REMAIN. VERIFY PIPE LOCATION, TYPE AND CONDITION IN FIELD.
 - NEW SANITARY PIPE IN CHASE.
 - NEW SANITARY PIPE BELOW FLOOR.
 - EXISTING FLOOR DRAIN TO BE REMOVED. CONTRACTOR SHALL REMOVE DRAIN, CUT AND PATCH FLOOR AND EXISTING FLOOR OPENING MAY BE USED FOR NEW FLOOR DRAIN.
 - EXISTING HOSE BIBB TO BE REMOVED.
 - PROVIDE NEW RECESSED STAINLESS STEEL LOCKABLE BOX WITH ACCESS DOOR IN CHASE BELOW LAVATORY. PROVIDE 3/4" DIA. HW & CW HOSE BIBBS. CABINET SIZE TO ALLOW CONNECTION OF HOSE.
 - SANITARY LINE DROP DOWN TO BELOW FLOOR.
 - EXISTING EWC TO REMAIN. REMOVE EXISTING DOMESTIC WATER AND PROVIDE NEW DOMESTIC WATER CONNECTED TO NEW LINE.
 - EXISTING EWC TO REMAIN. DISCONNECT EXISTING SANITARY AND CONNECT TO NEW SANITARY LINE.
 - NEW SHOCK ABSORBER EXTEND UP TO ABOVE CEILING IN CHASE. PROVIDE ACCESS PANEL ABOVE CEILING.
 - CONNECT NEW HOT AND COLD WATER PIPE TO EXISTING MOP RECEPTOR.
 - NEW DOMESTIC WATER PIPE UP THRU FLOOR FROM CRAWL SPACE.
 - CONNECT NEW 1/2" DIA. COPPER PIPE TO AUXILIARY INLET OF FLOOR DRAIN WITH TRAP PRIMER JR SMITH 2699.
 - NEW PIPE IN CRAWL SPACE.
 - CONNECT NEW 1/2" DIA. CW TYPE K COPPER IN SPLIT PVC PIPE WITH 1/2" THICK ARAMPLEX INSULATION TO AUXILIARY INLET OF FLOOR DRAIN. PROVIDE JR SMITH 2699 TRAP PRIMER.
 - PROVIDE NEW SHUTOFF VALVES.
 - PROVIDE LOCKED RECESSED STAINLESS STEEL CABINET WITH ACCESS DOOR. PROVIDE 3/4" DIA. CW AND HW HOSE BIBBS. CABINET SIZED TO ALLOW CONNECTION OF HOSE. LOCATE IN JANITORS CLOSET.
 - EXISTING VENT TO REMAIN.
 - CONNECT NEW VENT TO EXISTING VENT.
 - EXISTING ELECTRONIC DOMESTIC HOT WATER HEATER TO BE RELOCATED APPROXIMATELY 1'-0" FOR NEW WALL. EXISTING 1" DIA. HW WATER AND COLD WATER FEEDS FROM ABOVE CEILING TO BE REMOVED AND REINSTALLED FOR WALL INSTALLATION. CONNECT TO EXISTING PIPE ABOVE CEILING.
 - NEW LOCATION OF RELOCATED HOT WATER HEATER.
 - EXISTING ATC PANEL TO REMAIN.
 - REMOVE ALL EXISTING PLUMBING SANITARY VENT AND OR DOMESTIC WATER PIPE AND APPURTENANCES NOT BEING USED. EXISTING PIPE TO BE PROTECTED AND/OR MODIFIED TO ALLOW TO BE USED FOR NEW.
 - PROVIDE NEW DRAIN PAN WITH ALARM - WATTS FLOODSAFE #3A7F3 SHUTOFF VALVE POWER CORD (120V).

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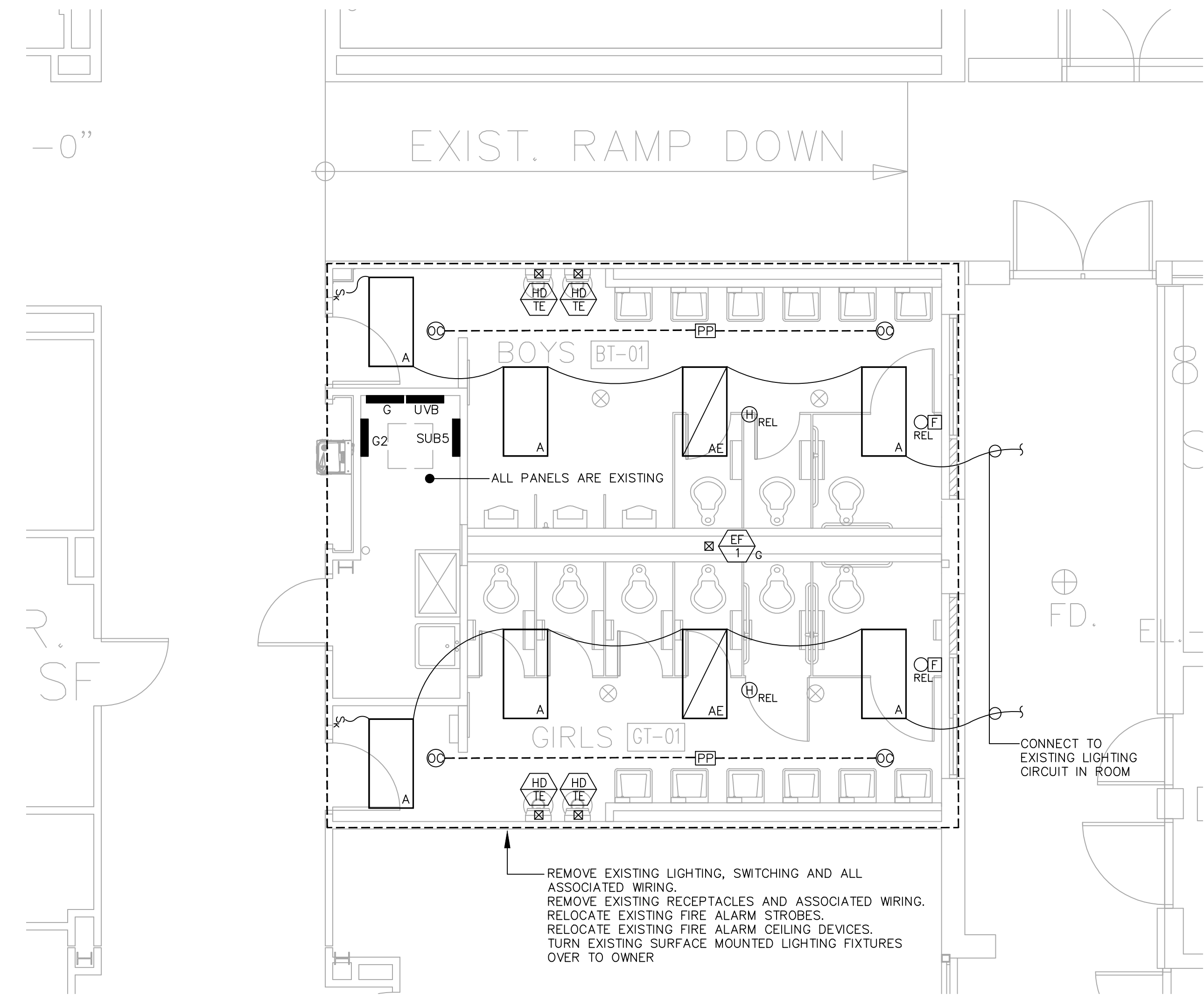
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c.	g.

Project N8-94 H.S.
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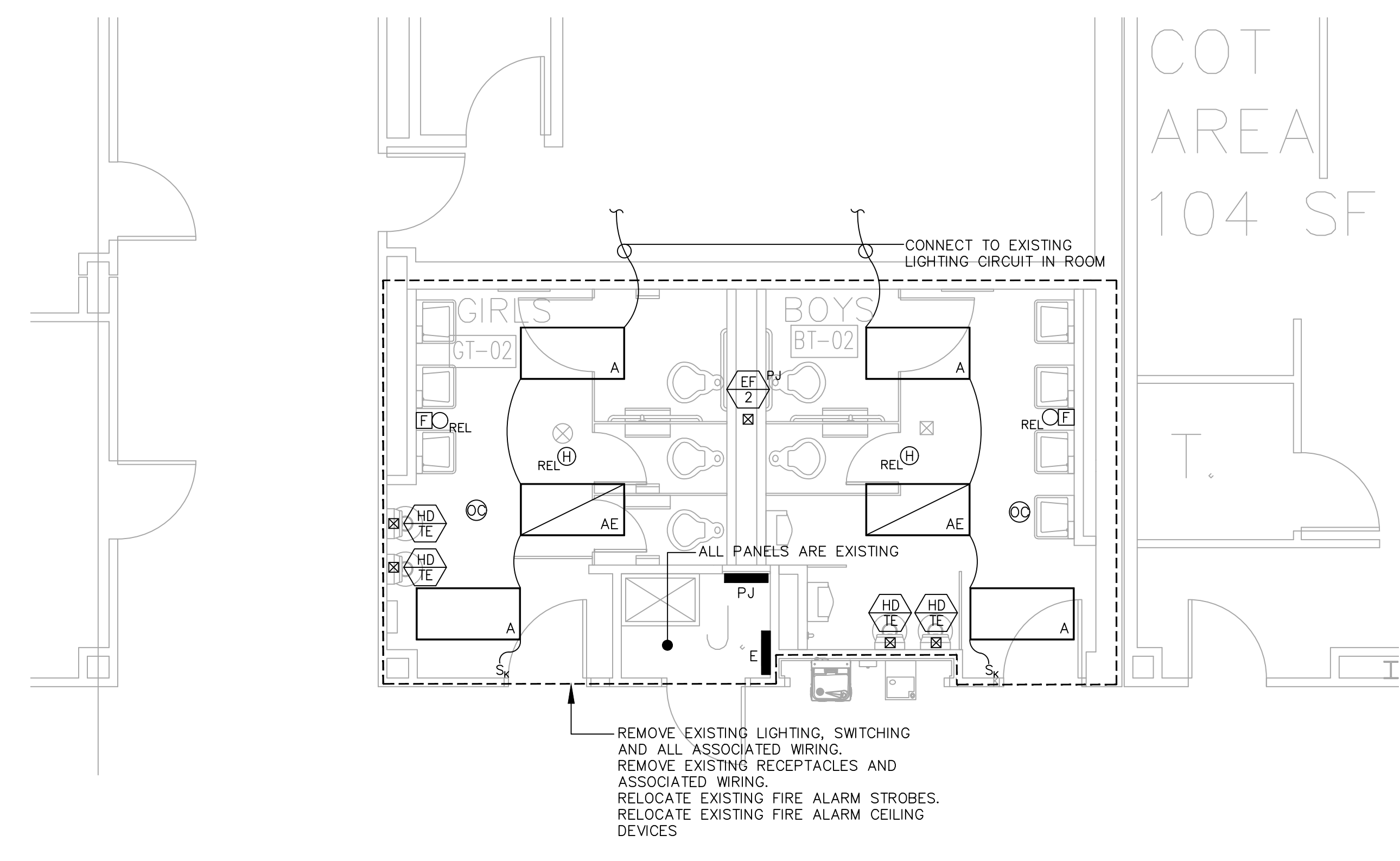
PLUMBING RISER DIAGRAMS

HP-2



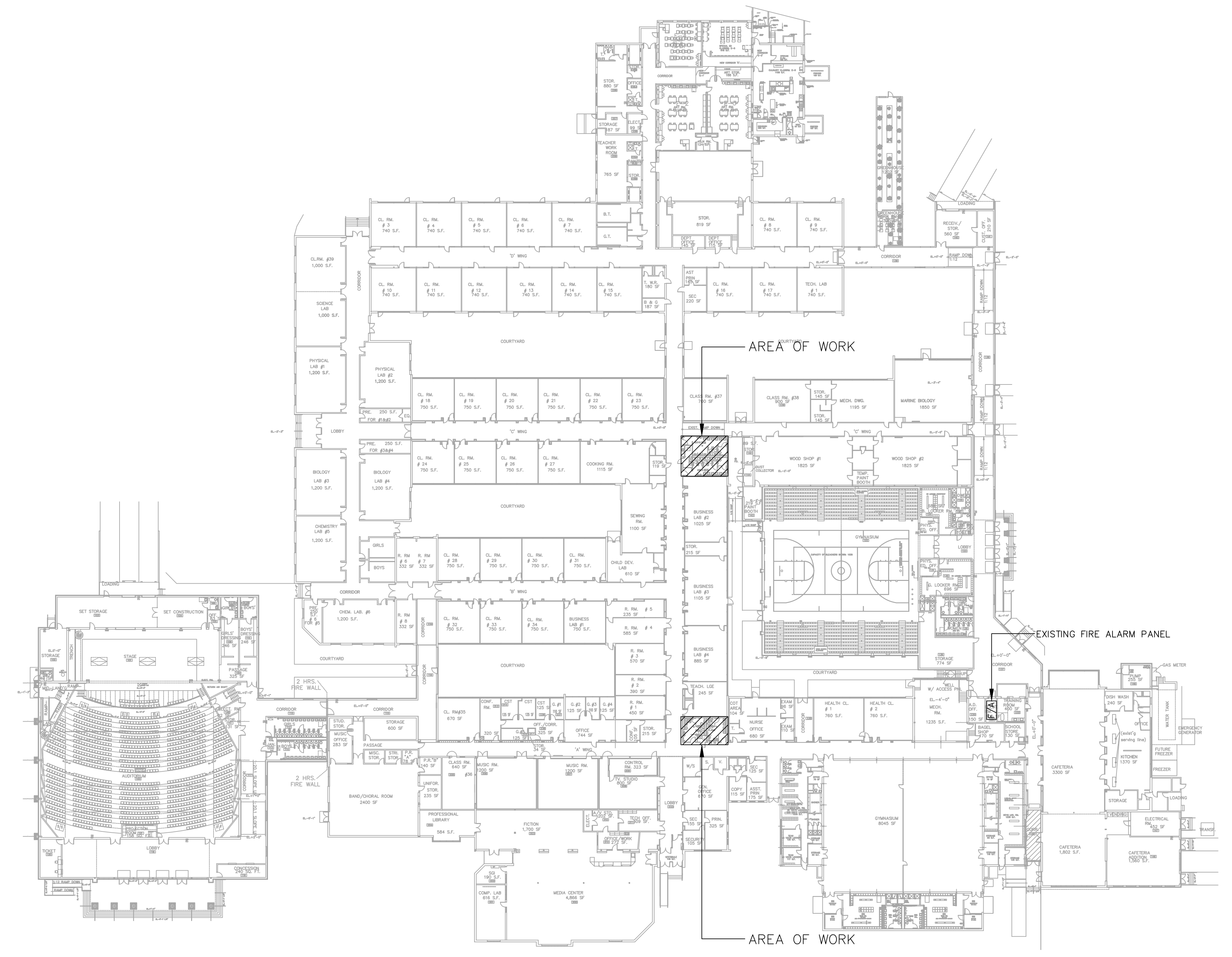
1 GANG TOILET ELECTRICAL PLAN
 HE-1

0 4 8 12
 GRAPHIC SCALE (FEET)



2 GANG TOILET ELECTRICAL PLAN
 HE-1

0 4 8 12
 GRAPHIC SCALE (FEET)



3 HIGH SCHOOL ELECTRICAL KEY PLAN
 HE-1

0 40 80 120
 GRAPHIC SCALE (FEET)

ELECTRICAL SYMBOL LIST

- Sx 20A, 277/120V LOCKING STYLE SWITCH (S-K), SINGLE POLE, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, PASS & SEYMOUR #20AC*-L SERIES; FURNISH AND TURN OVER TO THE OWNER AT LEAST ONE (1) KEY PER SWITCH INSTALLED
- Soc OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL WITH INTEGRAL MANUAL OVERRIDE TO "ON" PUSH BUTTON (S-OC), FLUSH MOUNTED ON WALL (ON FLUSH MOUNTED OUTLET BOX), SELF-CONTAINED "STAND-ALONE" TYPE (SINGLE SENSOR FOR LOCAL LIGHTING CONTROL OF A SINGLE CIRCUIT ONLY), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE WITH INTEGRAL SWITCHING RELAY, RATED MINIMUM 800 W, 1,200 VA FOR 120 V OPERATION AND RATED MINIMUM 2,700 VA FOR 277 V OPERATION, SINGLE POLE, NOMINAL 93 m2 (1,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SELECTABLE AUTOMATIC (OCCUPANCY SENSOR) OR MANUAL (VACANCY SENSOR) MODES, SPECIFICATION GRADE, WHITE FINISH, EATON/COOPER #GNW-D-1001-MV-4 (OR APPROVED EQUAL)
- OC OCCUPANCY SENSOR LIGHTING CONTROL [OC], FLUSH MOUNTED IN CEILING, FOR COMMON CONTROL OF LIGHTING (MULTIPLE SENSORS FOR LIGHTING CONTROL IN CONJUNCTION WITH REMOTE LIGHTING CONTROL RELAY MODULE(S)), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE, 360 DEGREE NOMINAL 186 m2 (2,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SPECIFICATION GRADE, WHITE FINISH; PROVIDE LOW VOLTAGE CONTROL WIRING AS REQUIRED BETWEEN SENSOR AND CONTROL RELAY
- PP LIGHTING CONTROL RELAY MODULE [PP], INTERCONNECT (UTILIZING LOW VOLTAGE CONTROL WIRING AS REQUIRED) WITH OCCUPANCY SENSORS AS SHOWN ON THE DRAWINGS, RATED 1,800 VA FOR 120 V OPERATION AND RATED 4,800 VA FOR 277 V OPERATION, SINGLE POLE, SPECIFICATION GRADE; PROVIDE A MINIMUM OF ONE (1) RELAY PER CIRCUIT CONTROLLED (WHERE MULTIPLE RELAYS ARE SHOWN OR OTHERWISE REQUIRED, PROVIDE EXACT QUANTITY AS REQUIRED INCLUDING ADDITIONAL RELAYS OR MODULES IF NEEDED) TO SUPPORT THE SWITCHING CONTROL SHOWN ON DRAWINGS IN CONJUNCTION WITH THE QUANTITY OF CONTROLLING SENSORS INVOLVED), INTERCONNECT AUXILIARY CONTACTS AS REQUIRED FOR SIMULTANEOUS CONTROL; WHERE WALL SWITCHES (SINGLE POLE OR THREE-WAY) ARE INDICATED ALONG WITH OCCUPANCY SENSOR ON THE DRAWINGS, ARRANGE SWITCHES TO OPERATE AS MANUAL OVERRIDE TO "OFF" (AS RECOMMENDED BY OCCUPANCY SENSOR MANUFACTURER)
- 2 X 4 LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE
- 1 X 4 LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE
- INDICATES LIGHTING FIXTURE WITH EMERGENCY DRIVER
- EQUIPMENT CONNECTION, REFER TO THE EQUIPMENT SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION
- EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
- ELECTRICAL PANEL
- INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED
- FIRE ALARM VISUAL ONLY STROBE, "REL" INDICATES RELOCATE EXISTING DEVICE, EXTEND ALL WIRING AS REQUIRED. ALL NEW WIRING SHALL BE RECESSED
- FIRE ALARM HEAT DETECTOR (H), "REL" INDICATES RELOCATE EXISTING DEVICE, EXTEND ALL WIRING AS REQUIRED
- NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED EDITION
- ELECTRICAL CONTRACTOR (EC)
- MECHANICAL CONTRACTOR (MC), INCLUDING ALL MECHANICAL TRADES IN GENERAL (MECHANICAL, HVAC, ATC, PLUMBING, FIRE PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES
- GENERAL CONTRACTOR (GC), INCLUDING ALL GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL CONCRETE, SITE, ETC.), REFER TO ARCHITECTURAL AND SITE DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES

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a.	e.
b.	f.
c.	g.

Project No. 18-94HS
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HIGH SCHOOL ELECTRICAL PLAN
HE-1

ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
- 2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
- 3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT IN THE FIELD PRIOR TO ROUGH IN.
- 4) VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT. PROVIDE A COMPLETE AND WORKING INSTALLATION.
- 5) THE TERM "PROVIDE" MEANS, "FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR", AND THE TERMS "CONTRACTOR" AND "E.C." MEAN "ELECTRICAL CONTRACTOR", UNLESS INDICATED OTHERWISE. ALL WORK INDICATED ON THE ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS IS BY THE E.C. (UNLESS INDICATED OTHERWISE) AND IS NEW (UNLESS INDICATED OTHERWISE).
- 6) PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.
- 7) PERFORM ALL WORK IN PHASES AND SEQUENCES AS DIRECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FULLY COORDINATE PHASES/SEQUENCES IN DETAIL WITH ALL CONTRACTORS/TRADES, THE ARCHITECT, AND THE OWNER PRIOR TO PERFORMING WORK AND INCLUDE ALL COSTS IN BID.
- 8) COMPLETELY DISCONNECT AND REMOVE ALL EXISTING WIRING AND ELECTRICAL EQUIPMENT IN AREAS BEING RENOVATED, IN AREAS OF GENERAL DEMOLITION, INTERFERING WITH NEW CONSTRUCTION BY ANY CONTRACTOR OR TRADE (INCLUDING, BUT NOT LIMITED TO, GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.), AND SERVING EQUIPMENT AND APPARATUS REMOVED AS PART OF THIS PROJECT (BY ANY CONTRACTOR OR TRADE), UNLESS INDICATED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF RENOVATIONS AND AREAS OF GENERAL DEMOLITION. REFER TO AND CAREFULLY EXAMINE DRAWINGS AND SPECIFICATIONS OF ALL TRADES TO IDENTIFY AREAS OF INTERFERENCE WITH NEW CONSTRUCTION AND EQUIPMENT/APPARATUS REMOVALS. BASE PRICING ON THE ASSUMPTION THAT ELECTRICAL REMOVALS ARE NECESSARY IN ALL AREAS OF DEMOLITION (GENERAL DEMOLITION AS WELL AS DEMOLITION OF ANY SYSTEMS IN THE BUILDING [SPECIFICALLY INCLUDING DUCTWORK, PIPING, AND WIRING SYSTEMS OF ANY KIND]) AND ALL AREAS OF PROPOSED NEW WORK (BY ANY TRADE), UNLESS ACTUALLY VERIFIED OTHERWISE BY THE ELECTRICAL CONTRACTOR. INCLUDE ALL COSTS IN BID.
- 9) WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE, INCLUDING GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.) FEEDS LOADS WHICH REMAIN OR FEEDS LOADS IN ADJACENT OR OTHER AREAS NOT WITHIN THE SCOPE OF WORK, THE WIRING SHALL REMAIN. RELOCATE, EXTEND, AND/OR RE-FEED THE EXISTING WIRING AS REQUIRED TO MAINTAIN SERVICE, UNLESS INDICATED OTHERWISE. BASE PRICING ON THE ASSUMPTION THAT RELOCATING, EXTENDING, AND RE-FEEDING IS NECESSARY IN ALL AREAS OF DEMOLITION AND ALL AREAS OF PROPOSED NEW WORK (BY ANY TRADE), UNLESS ACTUALLY VERIFIED OTHERWISE BY THE ELECTRICAL CONTRACTOR. INCLUDE ALL COSTS IN BID.
- 10) WHERE RE-FEEDING EXISTING ELECTRICAL CIRCUITS AND LOADS, VERIFY ALL REQUIREMENTS IN THE FIELD AND INCLUDE ALL COSTS IN BID. VERIFY EXACT CONDUCTOR SIZES AND AMPACITY, EXISTING CIRCUIT BREAKER AND/OR FUSE AMPS, LOAD NAMEPLATE RATINGS, CONDUIT SIZES, ETC.. FOR EQUIPMENT TO BE RE-FED, PROVIDE ALL NEW WIRING DIRECTLY TO THE EQUIPMENT. DO NOT REUSE EXISTING WIRING TO RE-FEED EQUIPMENT, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- 11) INFORMATION REGARDING EXISTING CONDITIONS AND EQUIPMENT AND ALL INFORMATION REGARDING REMOVALS (INCLUDING INFORMATION REGARDING THE SCOPE OF REMOVALS ON ARCHITECTURAL DRAWINGS) INDICATES GENERAL CONDITIONS AND ARE A GUIDE TO PRICING ONLY. PRIOR TO SUBMITTING BID, VISIT THE PROJECT SITE AND VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT, ALL REMOVALS AND REQUIREMENTS, AND ALL TIE-INS TO EXISTING EQUIPMENT AND WIRING IN DETAIL. INCLUDE ALL COSTS IN BID. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR NOT FIRST VERIFYING ALL CONDITIONS.
- 12) FOR ALL NEW CIRCUIT BREAKERS IN EXISTING BRANCH AND DISTRIBUTION PANELS, PROVIDE CIRCUIT BREAKERS MATCHING AND COMPATIBLE WITH EXISTING CIRCUIT BREAKERS. PROVIDE WITH SHORT CIRCUIT INTERRUPTING RATINGS EQUAL TO OR EXCEEDING THE HIGHEST RATED EXISTING BRANCH CIRCUIT BREAKER IN THE PANEL. CIRCUIT BREAKER TYPES INDICATED ON THE DRAWINGS (WHERE APPLICABLE) ARE GUIDES TO PRICING ONLY. VERIFY EXACT TYPE AND ALL REQUIREMENTS IN FIELD PRIOR TO RELEASING EQUIPMENT.
- 13) FOR ALL WIRING AND WORK INDICATED, INCLUDING ALL SYSTEMS (POWER, LIGHTING, FIRE ALARM), PROVIDE ALL NEW CONDUITS, RACEWAYS, OUTLETS, AND CONDUCTORS, INCLUDE ALL COSTS IN BID. WHERE EXISTING CONDUITS AND RACEWAYS ARE DETERMINED BY THE ENGINEER TO BE IN ADEQUATE CONDITION, AND WHERE SPECIFICALLY APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER, EXISTING CONDUITS AND RACEWAYS MAY BE REUSED. PROVIDE A SEPARATE GROUNDING CONDUCTOR, IN ADDITION TO ALL OTHER GROUNDING CONDUCTORS SPECIFIED, AND BOND TO ALL RACEWAYS, CONDUITS, BOXES, AND OUTLETS WHERE RACEWAYS ARE REUSED. DO NOT DEPEND ON EXISTING CONDUITS/RACEWAYS FOR GROUNDING PATHS. REUSE EXISTING CONDUCTORS ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
- 14) COMPLETELY SEAL AND FIRE STOP ALL PENETRATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, FLOORS, CEILINGS, AND ANY OTHER CONSTRUCTION (INCLUDING ALL WALLS REQUIRED TO BE RATED BY CODE) TO A RATING MATCHING OR EXCEEDING THE FIRE RATING OF THE CONSTRUCTION. COMPLETELY SEAL AND WEATHERPROOF ALL PENETRATIONS OF EXTERIOR, AT OR BELOW GRADE, AND WET LOCATION WALLS AND FLOORS AND ROOF PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON FIRE RATINGS OF BUILDING CONSTRUCTION AND INCLUDE ALL COSTS IN BID. COMPLY WITH AND INSTALL FIRE STOPPING IN ACCORDANCE WITH ALL APPLICABLE FIRE RATING CODES AND STANDARDS (INCLUDING THE NEC, NFPA, IBC, AND THE UL "FIRE RESISTANCE DIRECTORY").
- 15) WHERE EXISTING CEILINGS ARE REMOVED AND REINSTALLED (EITHER PARTLY OR ENTIRELY), THE E.C. SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (INCLUDING LIGHTING FIXTURES, FIRE ALARM DEVICES (INCLUDING, BUT NOT LIMITED TO, SMOKE AND HEAT DETECTORS, SIGNALING DEVICES, INDICATORS, ETC.), SECURITY/CCTV CAMERAS, MOTION DETECTORS, SPEAKERS, AND ALL OTHER ELECTRICAL DEVICES, EQUIPMENT, AND APPARATUS) FROM THE CEILING GRID AND CEILING TILES. LEAVE IN PLACE AT THE CEILING AND SUPPORT (IN A CODE APPROVED AND LOCAL CODE OFFICIAL APPROVED MANNER) AS REQUIRED TO FACILITATE CEILING REMOVAL. ONCE CEILING IS REINSTALLED, THE E.C. SHALL PERMANENTLY REINSTALL ALL ELECTRICAL EQUIPMENT IN THE CEILING, WHERE NEW EQUIPMENT IS SHOWN ON THE DRAWINGS, THE E.C. SHALL COMPLETELY DISCONNECT AND REMOVE EXISTING EQUIPMENT (BEING REPLACED) AND ALL ASSOCIATED WIRING AND PROVIDE ALL NEW EQUIPMENT AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS. CEILINGS MAY BE LEFT OPEN FOR A LONG PERIOD OF TIME (I.E. THERE MAY BE SEVERAL MONTHS OR MORE BETWEEN THE TIME OF REMOVAL AND THE TIME OF REINSTALLING CEILINGS). WHEN CEILINGS ARE NOT IN PLACE, MAINTAIN (AS OPERATIONAL) ALL FIRE ALARM DEVICES AND EQUIPMENT AND NORMAL AND EMERGENCY LIGHTING AS REQUIRED (TEMPORARILY INSTALL FIRE ALARM DEVICES, SUPPORTED FROM STRUCTURE AND PROVIDE TEMPORARY LIGHTING OR TEMPORARILY SUPPORT EXISTING LIGHTING FROM STRUCTURE AS REQUIRED). WHEN CEILINGS ARE NOT IN PLACE, SAFELY SECURE EVERYTHING WHICH IS EXPOSED BY THE ABSENCE OF CEILINGS (NEW AND EXISTING) AND KEEP ALL AREAS CLEAN WHEN OCCUPIED. THIS CEILING WORK IS NOT SHOWN ON ELECTRICAL PLANS (SEE ARCHITECTURAL DRAWINGS AND CEILING PLANS AND OTHER TRADES DRAWINGS FOR INFORMATION). THIS CEILING WORK APPLIES REGARDLESS OF THE PARTY REMOVING THE CEILING AND REGARDLESS OF WHETHER OR NOT CEILING REMOVAL IS SHOWN ON DRAWINGS. COORDINATE WITH ALL CONTRACTORS AND TRADES TO CONFIRM THE EXTENT OF CEILING WORK AND INCLUDE ALL COSTS IN BID. THIS CEILING WORK ALSO APPLIES WHERE ANY CONTRACTOR CHOOSES TO INSTALL NEW CEILING IN LIEU OF REINSTALLING THE EXISTING CEILING.
- 16) WHERE EXISTING CEILINGS ARE REMOVED AND NEW CEILINGS ARE INSTALLED (EITHER PARTLY OR ENTIRELY), THE E.C. SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (INCLUDING LIGHTING FIXTURES, FIRE ALARM DEVICES (INCLUDING, BUT NOT LIMITED TO, SMOKE AND HEAT DETECTORS, SIGNALING DEVICES, INDICATORS, ETC.), SECURITY/CCTV CAMERAS, MOTION DETECTORS, SPEAKERS, AND ALL OTHER ELECTRICAL DEVICES, EQUIPMENT, AND APPARATUS) FROM THE CEILING GRID AND CEILING TILES. LEAVE IN PLACE AT THE CEILING AND SUPPORT (IN A CODE APPROVED AND LOCAL CODE OFFICIAL APPROVED MANNER) AS REQUIRED TO FACILITATE CEILING REMOVAL. ONCE NEW CEILING IS INSTALLED, THE E.C. SHALL PERMANENTLY REINSTALL ALL ELECTRICAL EQUIPMENT IN THE CEILING, WHERE NEW EQUIPMENT IS SHOWN ON THE DRAWINGS, THE E.C. SHALL COMPLETELY DISCONNECT AND REMOVE EXISTING EQUIPMENT (BEING REPLACED) AND ALL ASSOCIATED WIRING AND PROVIDE ALL NEW EQUIPMENT AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS. CEILINGS MAY BE LEFT OPEN FOR A LONG PERIOD OF TIME (I.E. THERE MAY BE SEVERAL MONTHS OR MORE BETWEEN THE TIME OF REMOVAL AND THE TIME OF INSTALLING NEW CEILINGS). WHEN CEILINGS ARE NOT IN PLACE, MAINTAIN (AS OPERATIONAL) ALL FIRE ALARM DEVICES AND EQUIPMENT AND NORMAL AND EMERGENCY LIGHTING AS REQUIRED (TEMPORARILY INSTALL FIRE ALARM DEVICES, SUPPORTED FROM STRUCTURE AND PROVIDE TEMPORARY LIGHTING OR TEMPORARILY SUPPORT NEW OR EXISTING LIGHTING FROM STRUCTURE AS REQUIRED). WHEN CEILINGS ARE NOT IN PLACE, SAFELY SECURE EVERYTHING WHICH IS EXPOSED BY THE ABSENCE OF CEILINGS (NEW AND EXISTING) AND KEEP ALL AREAS CLEAN WHEN OCCUPIED. THIS CEILING WORK IS NOT SHOWN ON ELECTRICAL PLANS (SEE ARCHITECTURAL DRAWINGS AND CEILING PLANS FOR INFORMATION).
- 17) WHERE ELECTRICAL WORK INVOLVES REMOVAL AND REINSTALLATION OF EXISTING CEILINGS, REMOVAL AND RELOCATION IS THE RESPONSIBILITY OF THE E.C.. AS AN ALTERNATIVE (AT THE E.C.'S OPTION) TO REINSTALLING CEILINGS REMOVED TO FACILITATE ELECTRICAL WORK, THE E.C. MAY INSTALL A NEW CEILING OF A TYPE MATCHING THE EXISTING CEILING PROVIDED THERE IS NO COST CHANGE TO THE CONTRACT (WHEREVER NEW CEILING INVOLVES ADDITIONAL COST TO THE CONTRACT, NEW CEILING IS NOT ACCEPTABLE). REPLACE ANY CEILING TILES DAMAGED AS PART OF ELECTRICAL WORK.

EQUIPMENT CONNECTION NOTES

- 1) EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- 2) THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL CIRCUIT BREAKER AMPERES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
- 3) PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.
- 4) ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).
- 5) PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.
- 6) PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS.
- 7) PROVIDE CIRCUIT WIRING AND CONDUIT FROM THE APPROPRIATE PANEL (REFER TO PANEL SCHEDULES) TO THE EQUIPMENT (PASSING THROUGH ANY APPLICABLE CONTROLS AND LOCAL DISCONNECTING MEANS) AS PER THE EQUIPMENT SCHEDULES. PROVIDE INDIVIDUAL NEUTRAL (WHERE APPLICABLE) AND EQUIPMENT GROUNDING CONDUCTORS WITH EACH CIRCUIT.
- 8) FEED FIRE STANDING EQUIPMENT UNABLE TO BE SERVED BY WIRING RUN ON/ALONG WALLS OR COLUMNS WITH CONDUIT FROM THE CEILING OR UNDER THE FLOOR, SUITABLY SUPPORTED.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
A	2' X 4' RECESSED LED, 0-10V DIMMING	COLUMBIA	CFP24-5535	50 WATT LED, 5477 LUMENS 3500 DEG K	
AE	2' X 4' RECESSED LED, 0-10V DIMMING WITH FIELD INSTALLED EMERGENCY DRIVER	COLUMBIA	CFP24-5535 PLD10M	50 WATT LED, 5477 LUMENS 3500 DEG K	
B	4' INDUSTRIAL LED	COLUMBIA	LCL-30ML-EDU	42W LED, 5154 LUMENS 3500 DEG K	

EQUIPMENT CONNECTION SCHEDULE

EQUIP. NUMBER	DESCRIPTION	RATED VOLTAGE/ PHASE	LOAD (VA)	HORSE POWER/ KW	BREAKER AMPS/ POLES	PANEL	PLUG-IN RECEPTACLE NEMA CONFIG	DISCONNECT SWITCH AMPS/POLES	CIRCUIT	REMARKS
HD-TE	TYPICAL HAND DRYER (IN BATHROOM THAT HAS HAND DRYER)	120V-1PH	1,500		20/1	P*	N/A	J-BOX	3 # 10, 3/4" C	NOTE # 2 BELOW
HD-TN	TYPICAL HAND DRYER (IN BATHROOM WITH NO HAND DRYER)	120V-1PH	1,500		20/1	P*	N/A	J-BOX	3 # 10, 3/4" C	REFERENCE ELECTRICAL PLANS
HWH-REL	ELECTRIC HOT WATER HEATER, MIDDLE SCHOOL, (RELOCATED)									EXTEND WIRING AS REQUIRED
EF-1	EXHAUST FAN, HIGH SCHOOL	120V-1PH	250		20/1	G	N/A	OIL SWITCH	3 # 12, 3/4" C	PROVIDE NEW 20/1 BREAKER IN EXISTING PANEL
EF-2	EXHAUST FAN, HIGH SCHOOL	120V-1PH	250		20/1	PJ	N/A	OIL SWITCH	3 # 12, 3/4" C	PROVIDE NEW 20/1 BREAKER IN EXISTING PANEL

NOTES:

- 1) PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE, THE E.C. IS FULLY RESPONSIBLE FOR OBTAINING COPIES OF SHOP DRAWINGS FROM THE CONTRACTOR OR PARTY (INCLUDING OWNER, WHERE APPLICABLE) FURNISHING THE EQUIPMENT AND FOR COORDINATING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE E.C. IS SOLELY RESPONSIBLE FOR THIS COORDINATION AND IS RESPONSIBLE FOR ALL COSTS WHICH MAY RESULT FROM FAILING TO FULLY COORDINATE.
- 2) UTILIZE EXISTING BREAKER AND HOME RUN SERVING HAND DRYER. REMOVE EXISTING WIRING BACK ABOVE ACOUSTIC CEILING AND EXTEND NEW WIRING FOR NEW HAND DRYER RECESSED IN WALL TO PROPOSED NEW HAND DRYER LOCATION

2019 Toilet Room Renovations at the Lower Cape May Regional High School
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204
FOR THE LOWER Cape May Regional School District
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204

REVISIONS

a.	e.
b.	f.
c.	g.

Project No. 18-94HS
 Date: 01-29-19
 Scale: AS NOTED

ELECTRICAL NOTES & DETAILS
HE-2

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2019 TOILET ROOM RENOVATIONS AT THE RICHARD M. TEITELMAN MIDDLE SCHOOL 687 ROUTE 9, CAPE MAY, NEW JERSEY 08204

FOR THE LOWER CAPE MAY REGIONAL SCHOOL DISTRICT 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204

PROJECT NUMBER: 18-94M
TYPE OF CONSTRUCTION: IIB
USE GROUP: E

STRUCTURAL ENGINEER:

ORNDORF & ASSOCIATES, INC.

8600 WEST CHESTER PIKE, SUITE 201, UPPER DARBY, PA 19082
PHONE: 610-896-4500 FAX: 610-896-4503

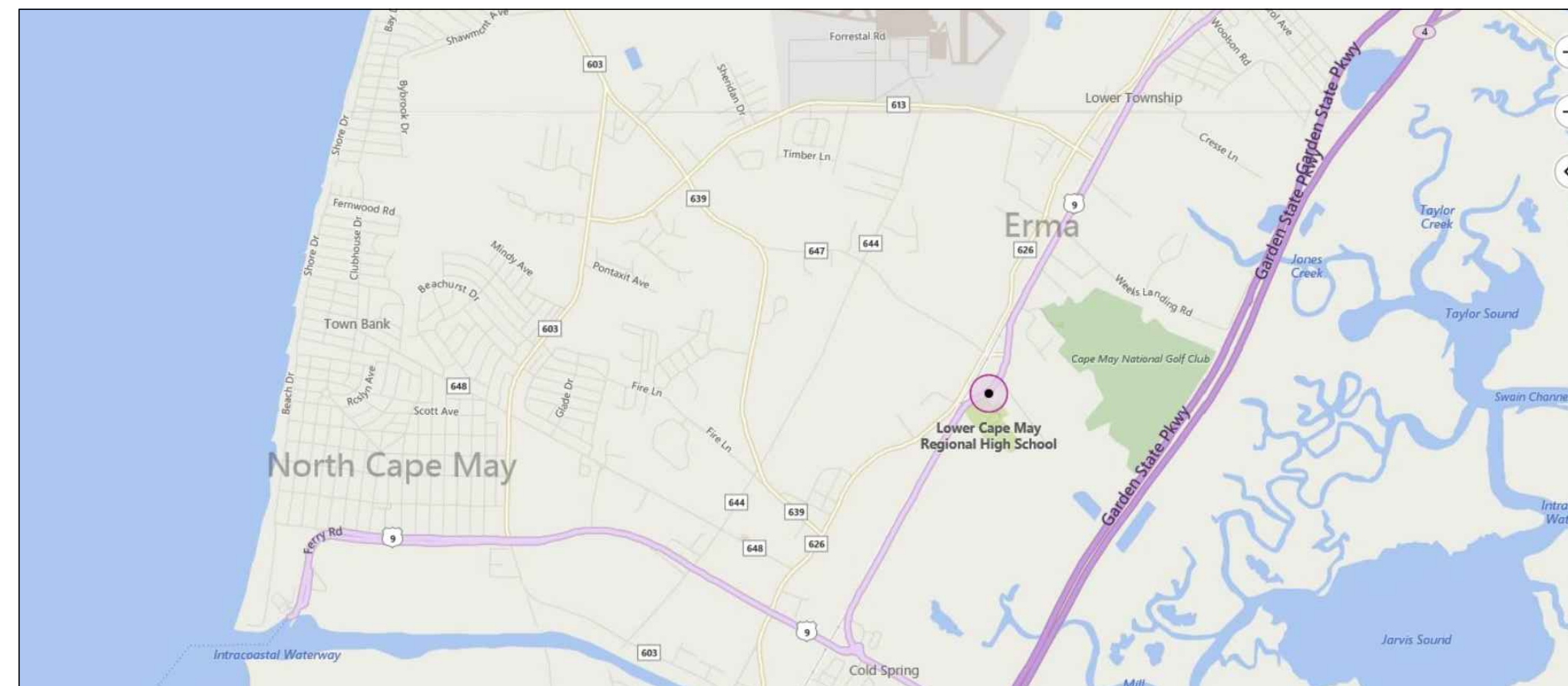
MECHANICAL, PLUMBING, ELECTRICAL ENGINEER:

MULHERN ENGINEERS

321 SOUTH YORK ROAD, HATBORO, PA 19040
PHONE: 215-293-9900 FAX: 215-293-9214

DESIGN CODES:

INTERNATIONAL BUILDING CODE/2015 / NJ EDITION
INTERNATIONAL MECHANICAL CODE/2015
INTERNATIONAL FUEL GAS CODE/2015
NATIONAL STANDARD PLUMBING CODE/2009
ASHRAE 2013-90.1 ENERGY STANDARD
NATIONAL ELECTRICAL CODE(NFPA 70)/2014
INTERNATIONAL FIRE CODE/2015
ELEVATOR SUBCODE: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
BARRIER FREE SUBCODE: ICC/ANSI A117.1-2009
N.J. REHAB CODE 5:23-6

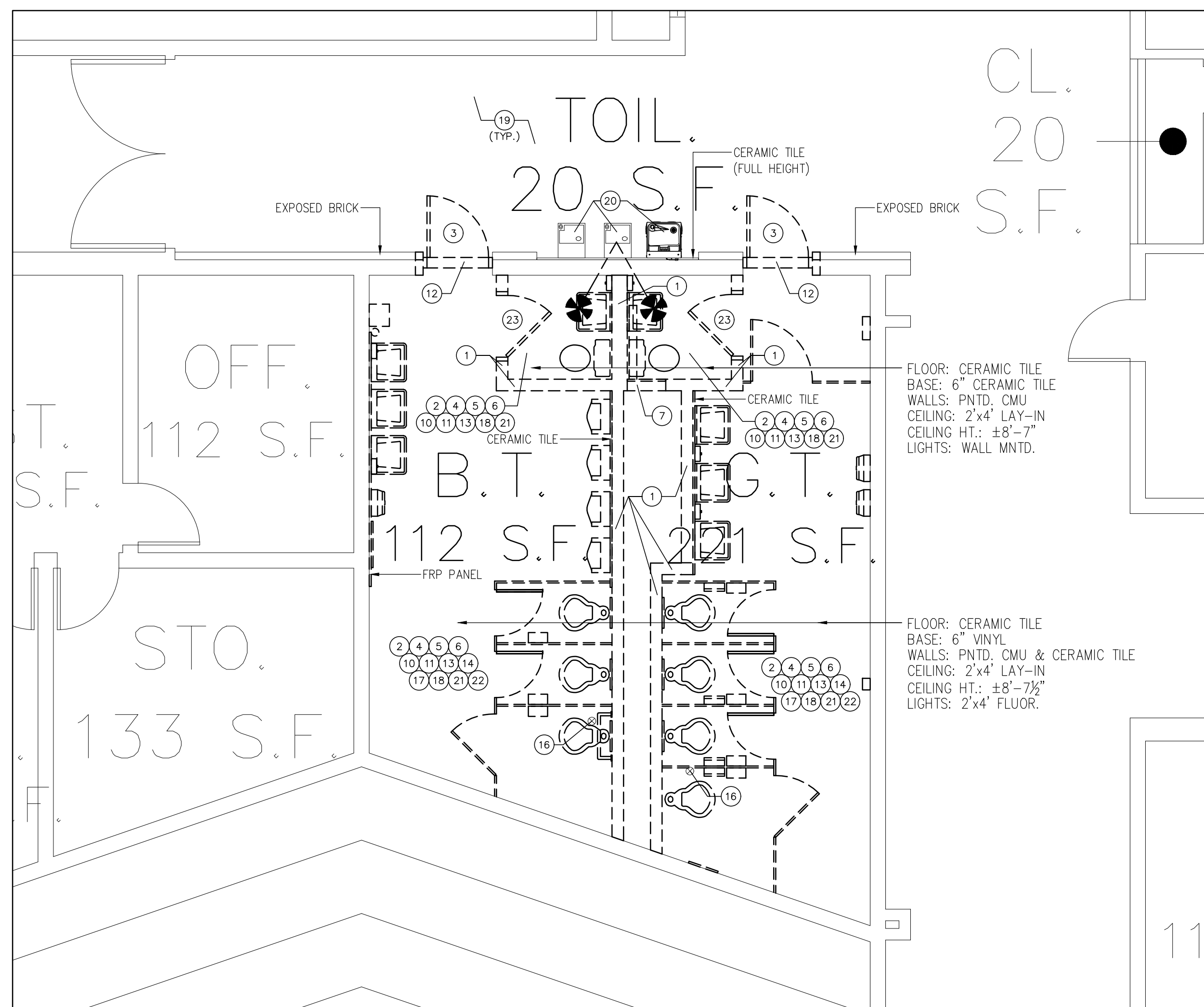


MAP LOCATION

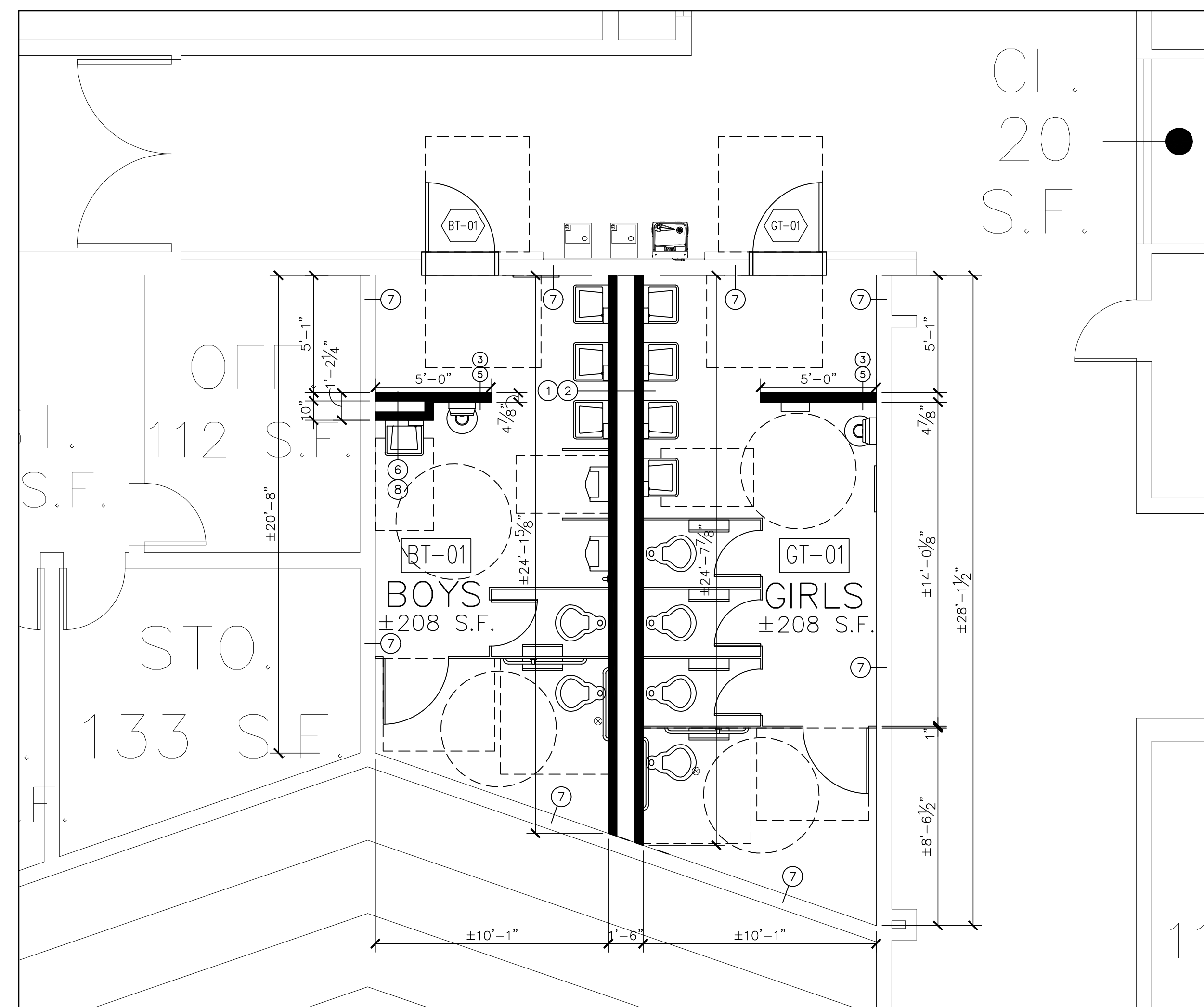


AERIAL VIEW

RICHARD M. TEITELMAN MIDDLE SCHOOL	
No.	NEW ENTRANCE CANOPY & GENERATOR
	COVER SHEET & INDEX
ARCHITECTURAL	
MA-1	DEMOLITION PLANS, FLOOR PLANS I
MA-2	DEMOLITION PLANS, FLOOR PLANS II
MA-3	REFLECTED CEILING PLANS, ENLARGED TOILET PLANS I
MA-4	REFLECTED CEILING PLANS, ENLARGED TOILET PLANS II
MA-5	TOILET ROOM ELEVATIONS
MA-6	ROOM FINISH SCHEDULE, WALL TYPES
MA-7	DOOR SCHEDULE, DETAILS
MECHANICAL	
MM-1	MECHANICAL ENLARGED TOILET PLANS
MM-2	MECHANICAL ENLARGED TOILET PLANS
MM-3	MECHANICAL LEGEND, SCHEDULES & NOTES
PLUMBING	
MP-1	PLUMBING ENLARGED TOILET PLANS
MP-2	PLUMBING ENLARGED TOILET PLANS
MP-3	PLUMBING RISER DIAGRAMS
ELECTRICAL	
ME-1	FIRST FLOOR ELECTRICAL PLAN
ME-2	SECOND FLOOR ELECTRICAL PLAN
ME-3	ELECTRICAL NOTES & DETAILS



1 EXISTING/DEMO ENLARGED 1ST FLOOR GANG TOILET
SCALE: 1/4"=1'-0"



1a PROPOSED ENLARGED 1ST FLOOR GIRLS TOILET
SCALE: 1/4"=1'-0"

DEMOLITION NOTE:
DEMOLITION OF ALL PLUMBING FIXTURES & TOILET PARTITIONS WILL BE PERFORMED BY OWNER'S ABATEMENT CONTRACTOR IN ORDER TO ABATE CERAMIC TILE FLOORS & WALLS, TYP.

LEGEND

- METAL STUD PARTITION
- MASONRY WALL & PARTITION
- ⊘ FOR WALL TYPES & TYP. DETAILS SEE DWGS. MA-6.
- ⊘ FOR DOOR TYPES & DETAILS SEE DWGS. MA-7.
- FOR EXISTING/DEMO PLANS & NOTES, SEE SHEET MA-1.

LEGEND

- EXISTING TO REMAIN
- - - - EXISTING TO REMOVED

REFER TO SHEET MA-1 FOR DEMOLITION AND RENOVATION NOTES.

GENERAL DEMOLITION/RENOVATION NOTES:

THE GENERAL CONTRACTOR SHALL REMOVE ALL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO LOCKERS, DOORS AND FRAMES, WINDOWS AND FRAMES, CEILING SYSTEM, PARTITIONS, CARPET, STOREFRONT WINDOW SYSTEM, GUARDRAILS, HANDRAILS, TACK STRIPS, SHELVING/CASEWORK AND TOILET PARTITIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ARCHITECT FOR FURTHER CLARIFICATIONS.

THE PLUMBING CONTRACTOR SHALL DISCONNECT AND CAP ALL PLUMBING ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, SHOWERS AND CONTROLS, SUPPLY LINES FOR HOT AND COLD WATER, EYE WASH STATIONS, WASH BASINS, UNITED SPRINKLER SYSTEM AND AIR COMPRESSOR SUPPLY LINES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE PLUMBING ENGINEER FOR FURTHER CLARIFICATIONS.

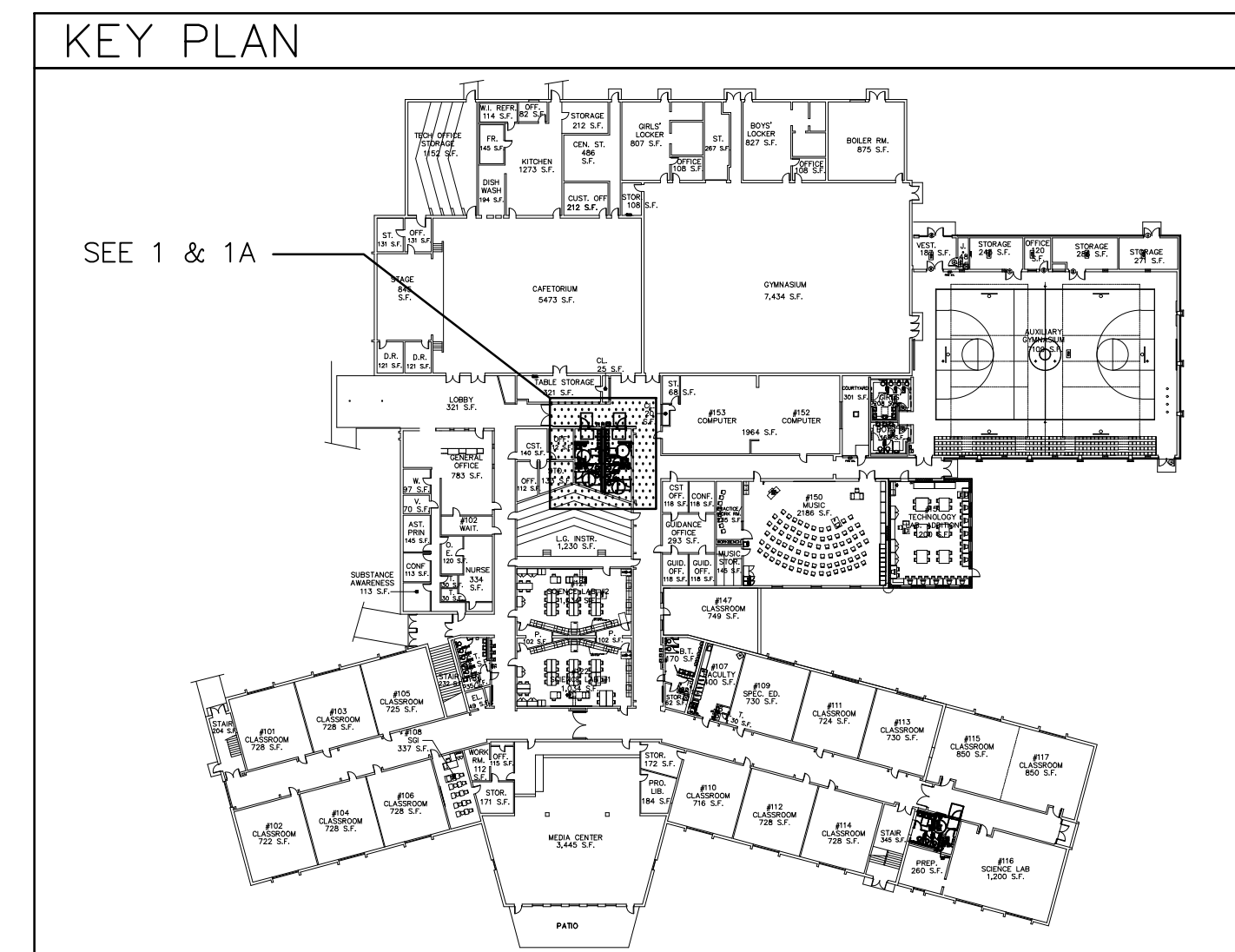
THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND CAP ALL ELECTRICAL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.

THE H.V.A.C. CONTRACTOR SHALL DISCONNECT AND CAP ALL H.V.A.C. ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.

DEMOLITION/RENOVATION NOTES:

- ① REMOVE EXISTING WALLS WHERE INDICATED TO SUIT NEW LAYOUT. PATCH FLOOR & WALLS LEVEL w/MATERIAL TO MATCH ADJACENT, TYP.
- ② INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. (SCORE PATCHED AREA TO MATCH EXISTING COURSING). PRIME & PAINT PER MANUFACTURERS SPECIFICATIONS. SEE FINISH SCHEDULE FOR BALANCE OF INFORMATION AND ARCHITECTURALS FOR NEW LAYOUT.
- ③ EXISTING DOOR & FRAME TO BE REMOVED. TURN OVER ALL HARDWARE TO OWNER, TYP. CUT CMU TO ENLARGE OPENING. TEMPORARILY SUPPORT OPENING. PROVIDE NEW LINTEL. SEE DOOR DETAILS FOR SIZE. PROVIDE NEW DOOR & FRAME. SEE DOOR SCHEDULE FOR BALANCE OF INFORMATION.
- ④ ELECTRICAL CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE LIGHT FIXTURES, SWITCHES, FIRE ALARM, WALL OUTLETS, POWER POLES, EMERGENCY POWER SHUT OFFS, ELECTRICAL PANELS, ETC. AND ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO ELECTRICAL DWGS. RELOCATE & RECONNECT ELECTRICAL ITEMS PER OWNERS' DIRECTION. THE RELOCATION TO INCLUDE ANY RE-WIRING, POWER AND/OR SWITCHES.
- ⑤ H.V.A.C. CONTRACTOR TO DISCONNECT AND REINSTALL MECHANICAL EQUIPMENT, INCLUDING UNIT VENTILATOR, RADIATION, DUCT WORK, SUPPLY REGISTERS, RETURN GRILLE, ETC. AND ALL APPURTENANCES. WHERE EQUIPMENT IS TO BE RELOCATED, RELOCATE & RECONNECT EXISTING DUCT. REFER TO MECHANICAL PLANS FOR INFORMATION REGARDING MECHANICAL EQUIPMENT, DUCTWORK, DEVICES, ETC. TO REMAIN, BE RELOCATED OR BE REPLACED.
- ⑥ PLUMBING CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER ACCORDING TO PLUMBING DRAWINGS. THESE ITEMS INCLUDE ANY DRINKING FOUNTAINS, WATER CLOSET, HOSE BIBS, SINKS, ETC. G.C. TO PATCH ALL HOLES TO SMOOTH SURFACE TO MATCH ADJACENT AFTER RENOVATION WORK IS DONE. PLUMBING CONTRACTOR TO COORDINATE LOCATION OF NEW FIXTURES WITH ENLARGED TOILET PLANS.
- ⑦ REMOVE EXISTING PIPE CHASE ACCESS PANEL.

- ⑧ EXISTING PLASTER CEILING SYSTEM (NON-ASBESTOS CONTAINING ASSEMBLY) TO REMAIN. ALL EXISTING LIGHTING & CEILING MOUNTED DEVICES NOT INDICATED TO BE REPLACED ARE TO BE TEMPORARILY SUPPORTED AND REINSTALLED IN NEW CEILING ASSEMBLY. PROVIDE NEW CEILING TILE/GRID. PROVIDE NEW LIGHTING OR RE-INSTALL EXISTING & OTHER ITEMS ON NEW CEILING AT ORIGINAL LOCATIONS. (SEE ARCH. DRAWINGS FOR FINAL ELEVATION. SEE ELECTRICAL DRAWINGS FOR ALL ELEC. WORK.)
- ⑨ EXISTING WINDOW SYSTEM TO REMAIN. PROTECT DURING RENOVATION. CAREFULLY REMOVE CERAMIC TILE & MASTIC FROM AROUND WINDOW & SILL. IF EXISTS, DOWN TO SMOOTH & LEVEL SURFACE. PREP & APPLY FINISH AT TILE LOCATIONS. WHERE EXISTING WINDOW WOOD TRIM EXISTS, IT IS TO BE PATCHED & PAINTED, TYP.
- ⑩ REMOVE EXISTING TOILET ACCESSORIES WHERE INDICATED. IF NOT RE-INSTALLED ACCORDING TO NEW LAYOUT, ITEMS ARE TO BE TURNED OVER TO SCHOOL. PROVIDE WALL PLUGS AND/OR PATCH HOLES WITH TILE TO MATCH ADJACENT, TYP. SEE ENLARGED TOILET PLANS FOR LAYOUT & PLUMBING DWGS.
- ⑪ PROVIDE NEW EPOXY RESIN FLOORING WITH COVED BASE, SEE SPECS.
- ⑫ REMOVE EXISTING MARBLE THRESHOLD, PROVIDE NEW.
- ⑬ AT ALL TILE LOCATIONS, REMOVE EXISTING CERAMIC TILE FLOOR. IF MUD BED EXISTS, IT IS TO BE REMOVED & REPLACED. PREP AREA FOR NEW INSTALLATION OF THE NEW EPOXY FLOOR & BASE.
- ⑭ REMOVE ALL EXISTING TOILET ROOM SCREEN/PARTITIONS.
- ⑮ REMOVE EXISTING BASEBOARD HEAT. SEE MECHANICAL DWGS. FOR FURTHER INFORMATION.
- ⑯ EXISTING FLOOR DRAIN AND/OR CLEAN OUT. SEE PLUMBING DRAWINGS FOR SCOPE OF WORK.
- ⑰ REMOVE WALL MOUNTED GRAB BARS, TURN OVER TO OWNER. IF APPLICABLE, PATCH HOLES IN WALLS w/MATERIALS TO MATCH ADJACENT, TYP.
- ⑱ REMOVE EXISTING DISPENSERS NOT USED IN NEW LAYOUT. TURN OVER TO OWNER.
- ⑲ EXISTING FLOOR FINISH TO REMAIN. REPAIR ALL DAMAGES CAUSED BY CONSTRUCTION ACTIVITIES IN KIND USING COMPATIBLE MATERIALS.
- ⑳ EXISTING TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- ㉑ REMOVE EXISTING LAY-IN CEILING SYSTEM (NON-ASBESTOS CONTAINING ASSEMBLY) IN ITS ENTIRETY. ALL EXISTING LIGHTING & CEILING MOUNTED DEVICES NOT INDICATED TO BE REPLACED ARE TO BE TEMPORARILY SUPPORTED AND REINSTALLED IN NEW CEILING ASSEMBLY. PROVIDE NEW CEILING TILE/GRID. PROVIDE NEW LIGHTING OR RE-INSTALL EXISTING & OTHER ITEMS ON NEW CEILING AT ORIGINAL LOCATIONS. (SEE ARCH. DRAWINGS FOR FINAL ELEVATION. SEE ELECTRICAL DRAWINGS FOR ALL ELEC. WORK.)
- ㉒ REMOVE EXISTING WALL CERAMIC TILE & MASTIC TO SMOOTH & LEVEL FINISH. PROVIDE NEW FULL-HEIGHT FRP WALLS IN ENTIRE ROOM. SEE FINISH SCHEDULE, TOILET ELEVATIONS & SPECS., TYP.
- ㉓ EXISTING DOOR & FRAME TO BE REMOVED. TURN OVER ALL HARDWARE TO OWNER, TYP.
- ㉔ EXISTING DOOR & FRAME TO REMAIN. PATCH & PAINT FRAME, TYP..
- ㉕ REMOVE EXISTING DOOR. FRAME TO REMAIN. TURN OVER ALL HARDWARE TO OWNER, TYP. PROVIDE NEW DOOR. PATCH & PAINT FRAME. SEE DOOR SCHEDULE FOR BALANCE OF INFORMATION.
- ㉖ AT HATCHED AREA, CUT IN A UNIFORM MANNER TO REMOVE FLOOR FINISH TO SUIT NEW LAYOUT.
- ㉗ (UNISEX TOILET UT-1): AT HATCHED AREA, MODIFY EXISTING LAY-IN CEILING & GRID SYSTEM TO SUIT NEW LAYOUT.
- ㉘ (UNISEX TOILET UT-1): RELOCATE EXISTING HOT WATER HEATER AND ALL ASSOCIATED PIPING AS REQUIRED TO SUIT NEW LAYOUT, TYP..



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Lower Cape May Regional School District
CAPE MAY, NEW JERSEY 08204

REVISIONS

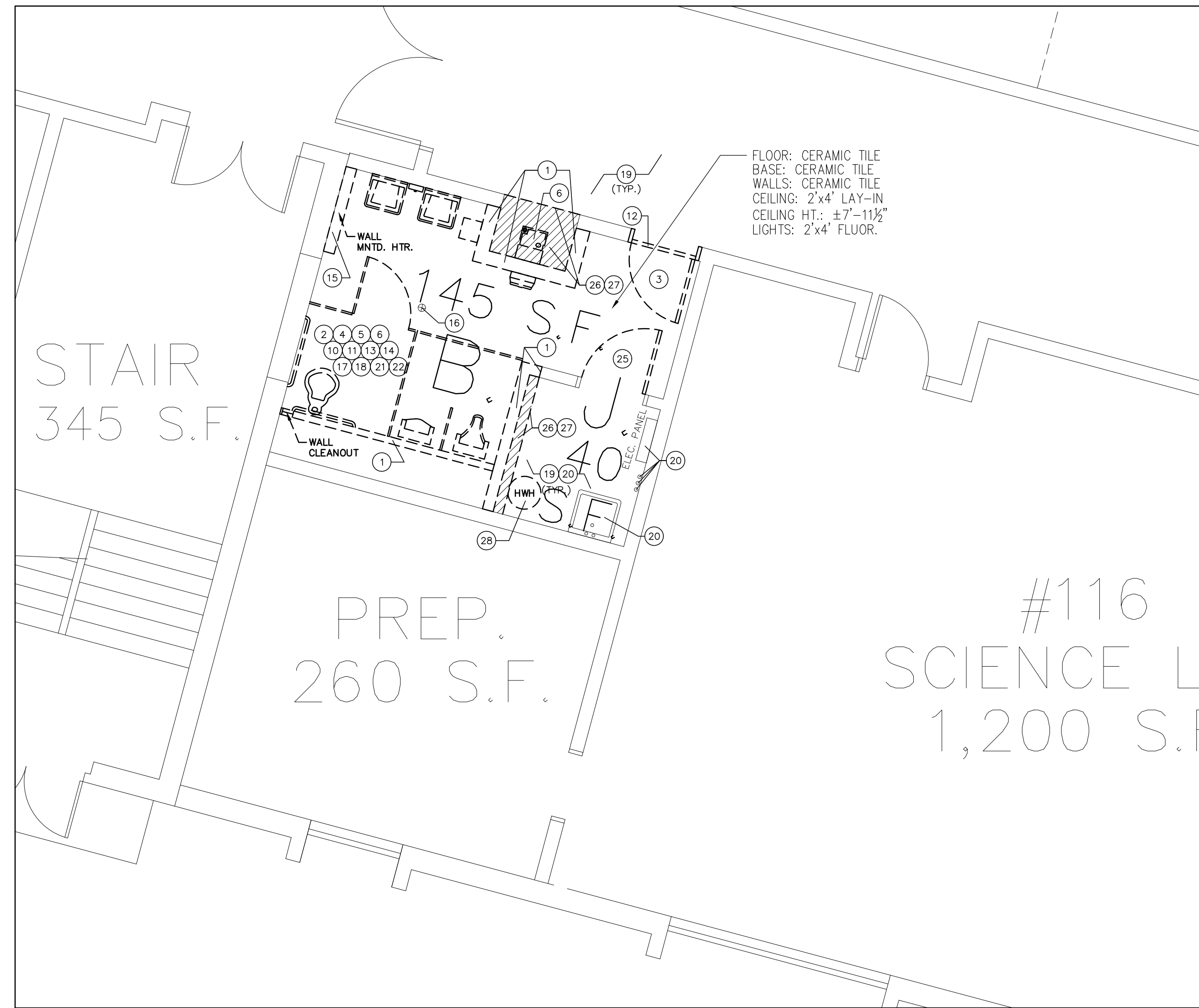
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DEMO & PROPOSED FLOOR PLANS MA-1

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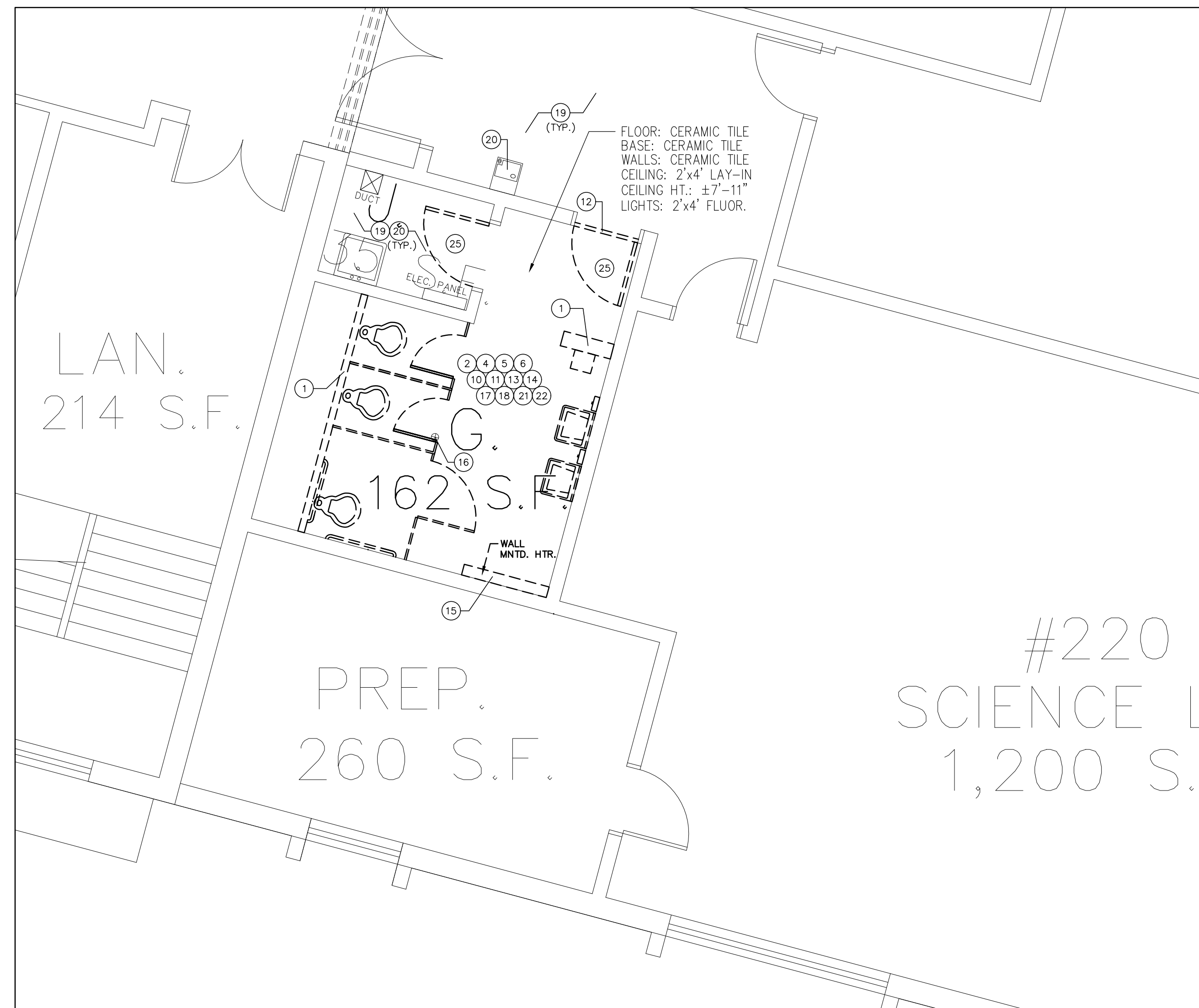
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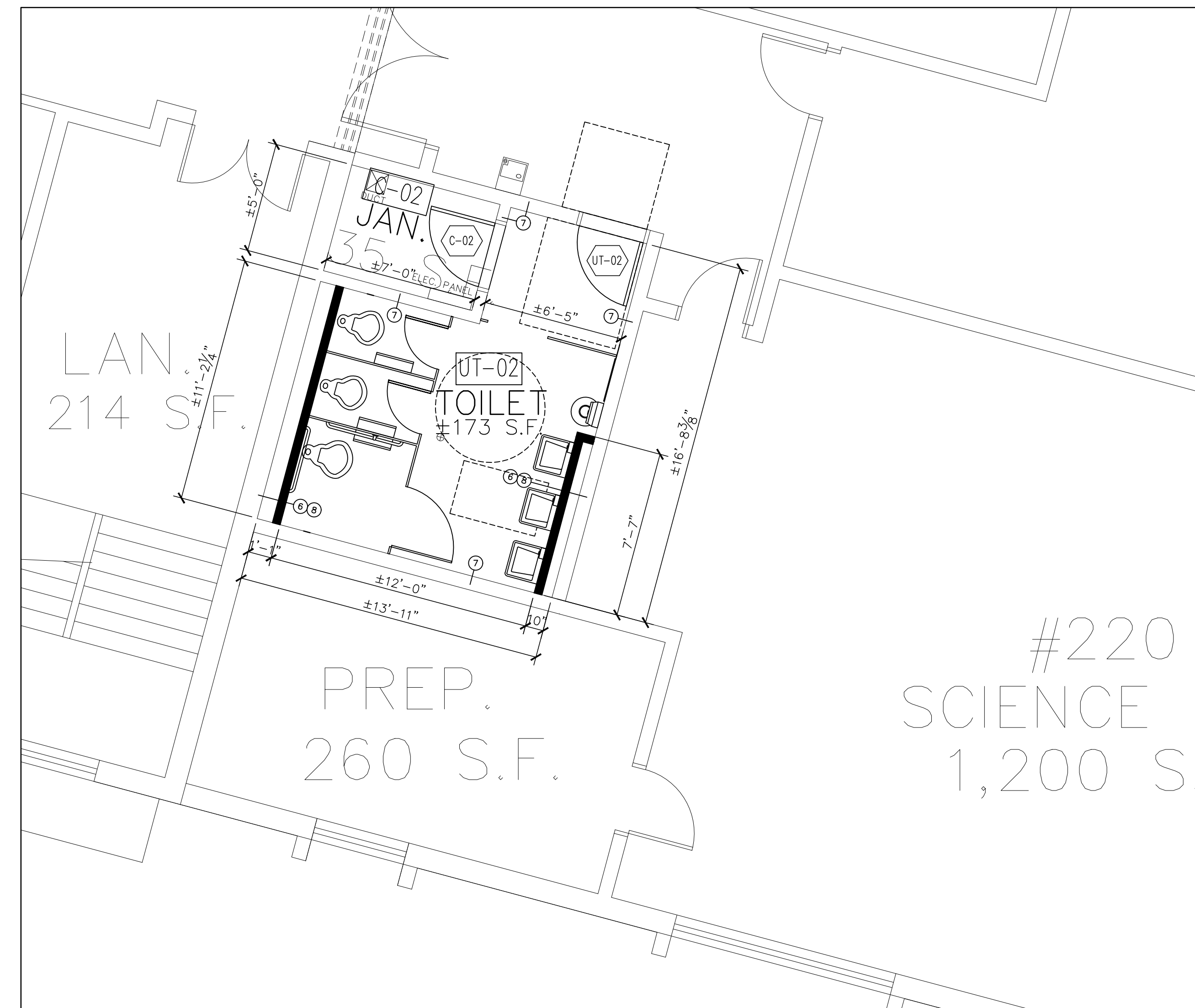
2 MA-2 EXISTING/DEMO ENLARGED 1ST FLOOR UNISEX TOILET (FORMERLY BOYS)
SCALE: 1/4"=1'-0"



2a MA-2 PROPOSED ENLARGED 1ST FLOOR UNISEX TOILET (FORMERLY BOYS)
SCALE: 1/4"=1'-0"



3 MA-3 EXISTING/DEMO ENLARGED 2ND FLOOR UNISEX TOILET (FORMERLY GIRLS)
SCALE: 1/4"=1'-0"



3a MA-3 PROPOSED ENLARGED 2ND FLOOR UNISEX TOILET (FORMERLY GIRLS)
SCALE: 1/4"=1'-0"

REFER TO SHEET MA-5 FOR ACCESSORY/MATERIALS LIST AND ELEVATIONS.

LEGEND

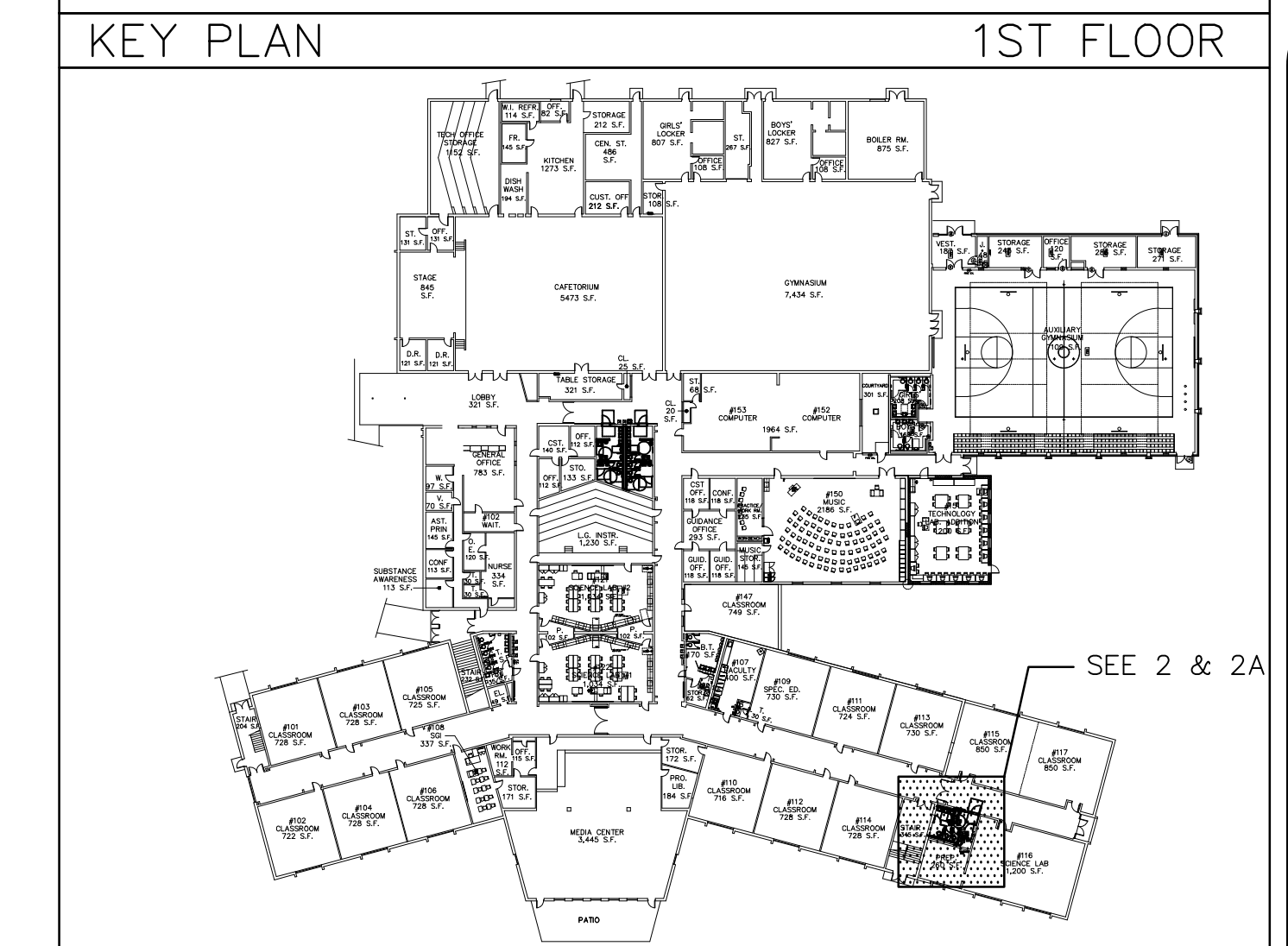
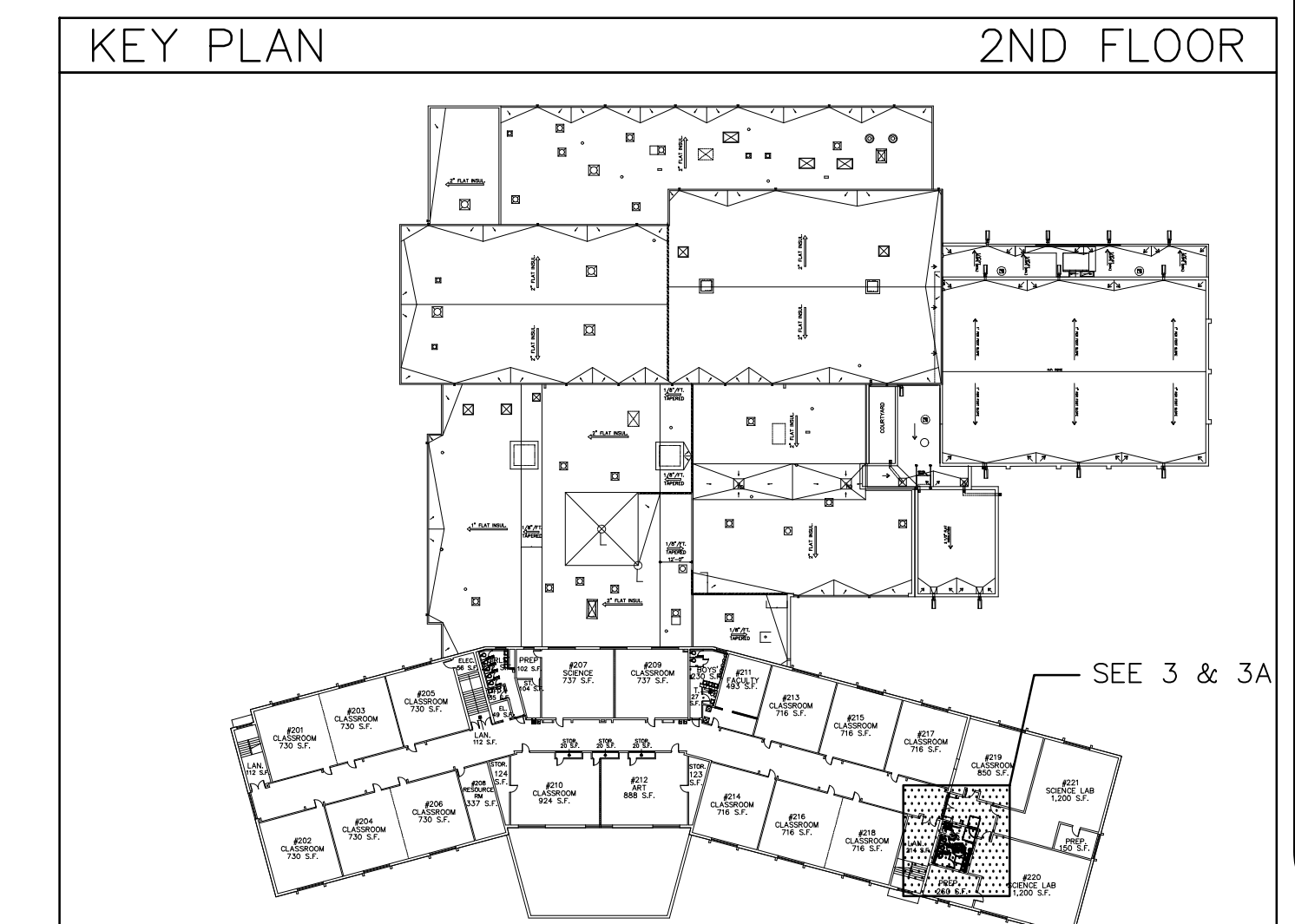
- METAL STUD PARTITION
- MASONRY WALL & PARTITION
- FOR WALL TYPES & TYP. DETAILS SEE DWGS. MA-6.
- FOR DOOR TYPES & DETAILS SEE DWGS. MA-7.
- FOR EXISTING/DEMO PLANS & NOTES, SEE SHEET MA-1.

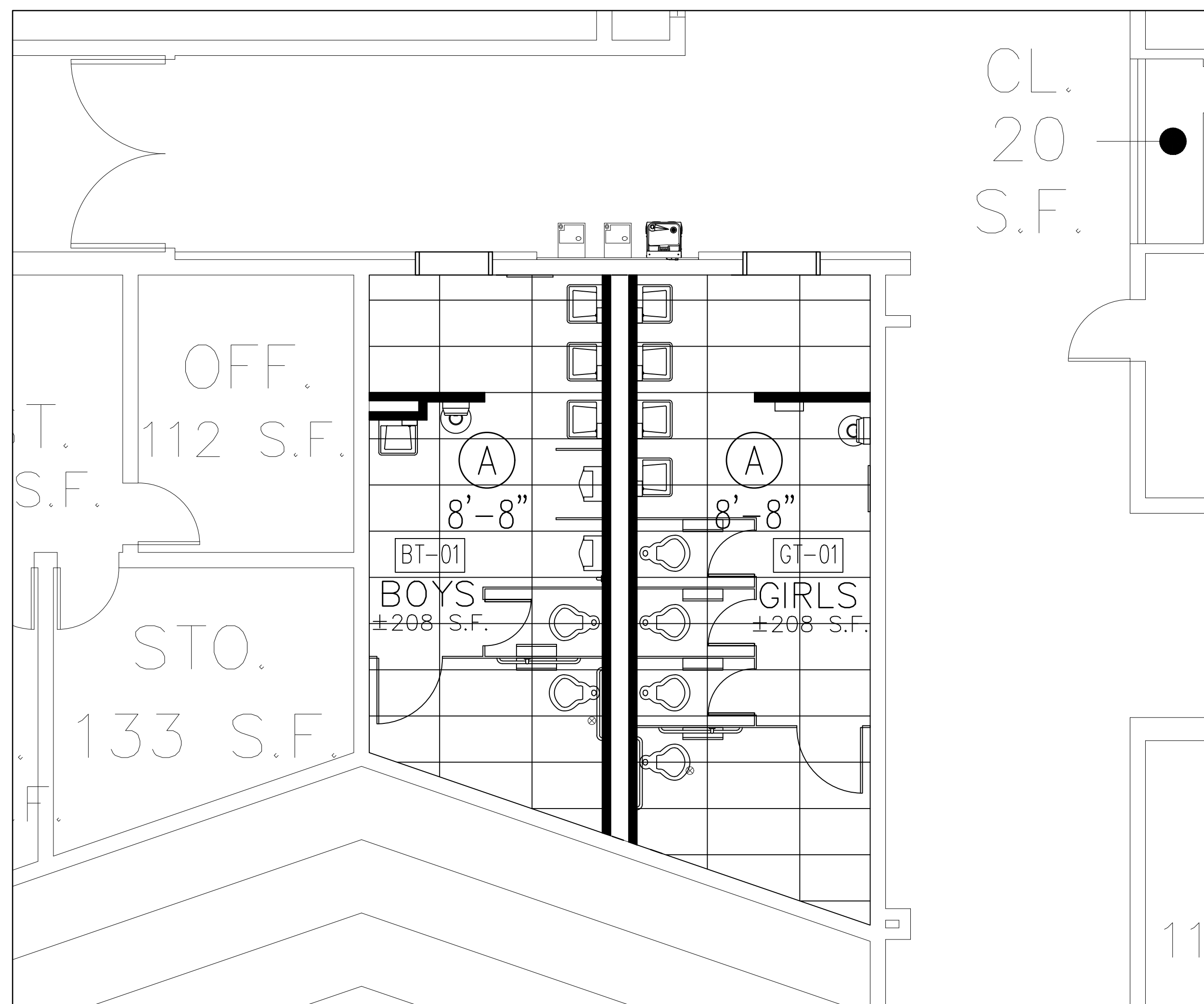
LEGEND

- EXISTING TO REMAIN
- EXISTING TO REMOVED

REFER TO SHEET MA-1 FOR DEMOLITION AND RENOVATION NOTES.

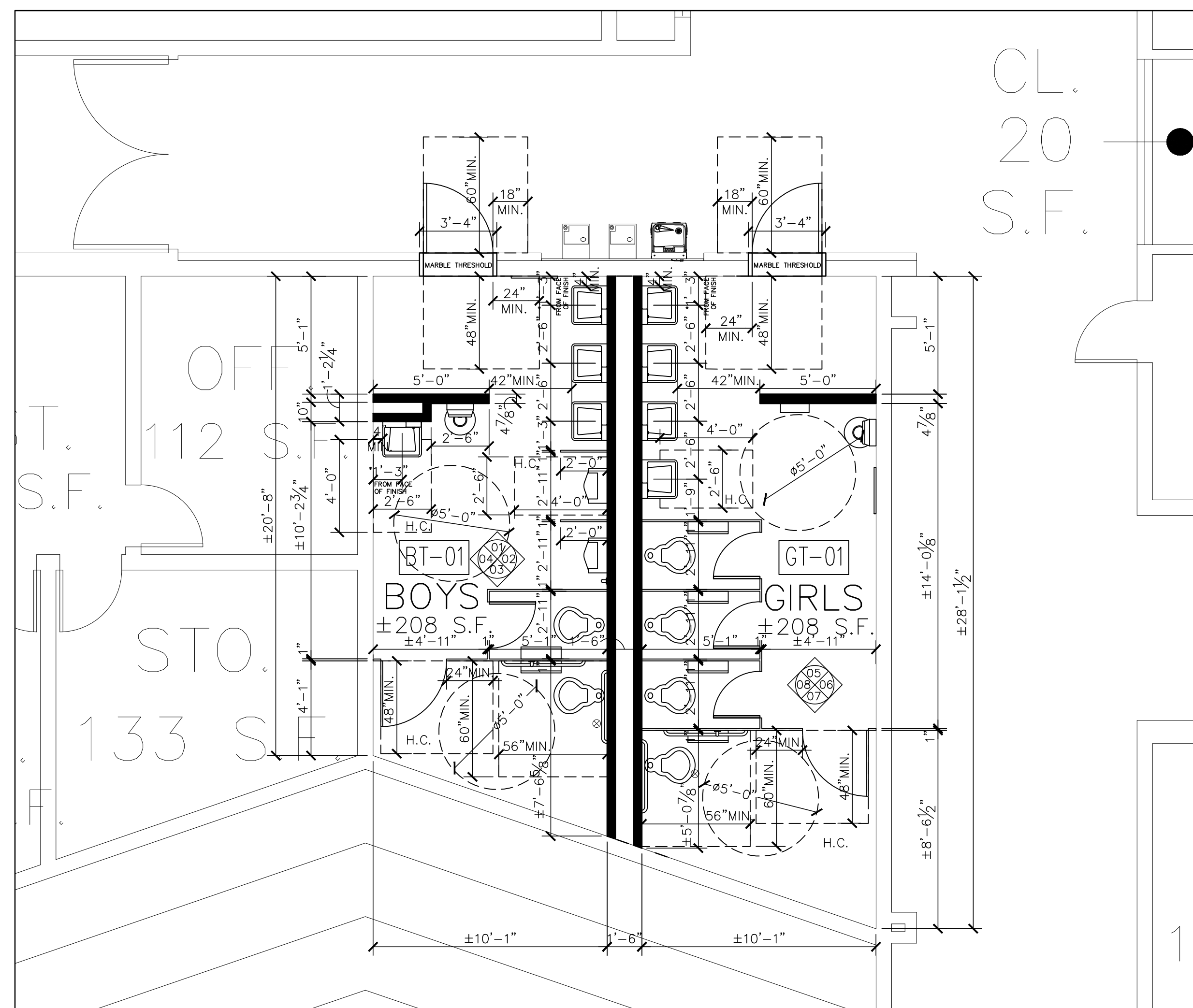
REFER TO SHEET MA-5 FOR ACCESSORY/MATERIALS LIST AND ELEVATIONS.



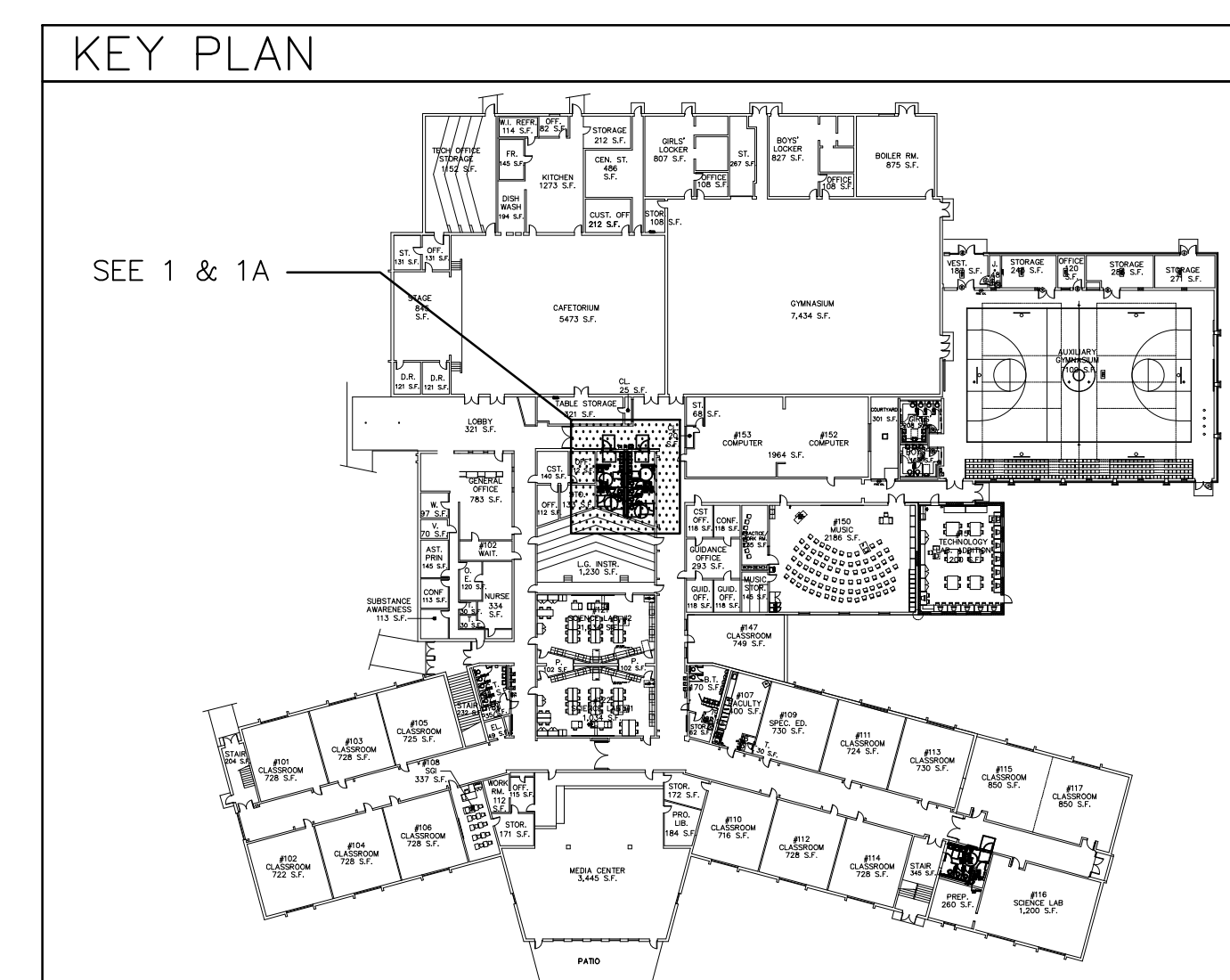


1 REFLECTED CEILING PLAN AT ENLARGED 1ST FLOOR GANG TOILET
 MA-3 SCALE: 1/4"=1'-0"

CEILING FINISH TYPES
 A 2'x4' LAY-IN TILE (NON-RATED)
 MOISTURE-RESISTANT w/ GRID



1a PROPOSED ENLARGED 1ST FLOOR GIRLS TOILET
 MA-3 SCALE: 1/4"=1'-0" REFER TO MA-# FOR ACCESSORY & MATERIAL LISTS.



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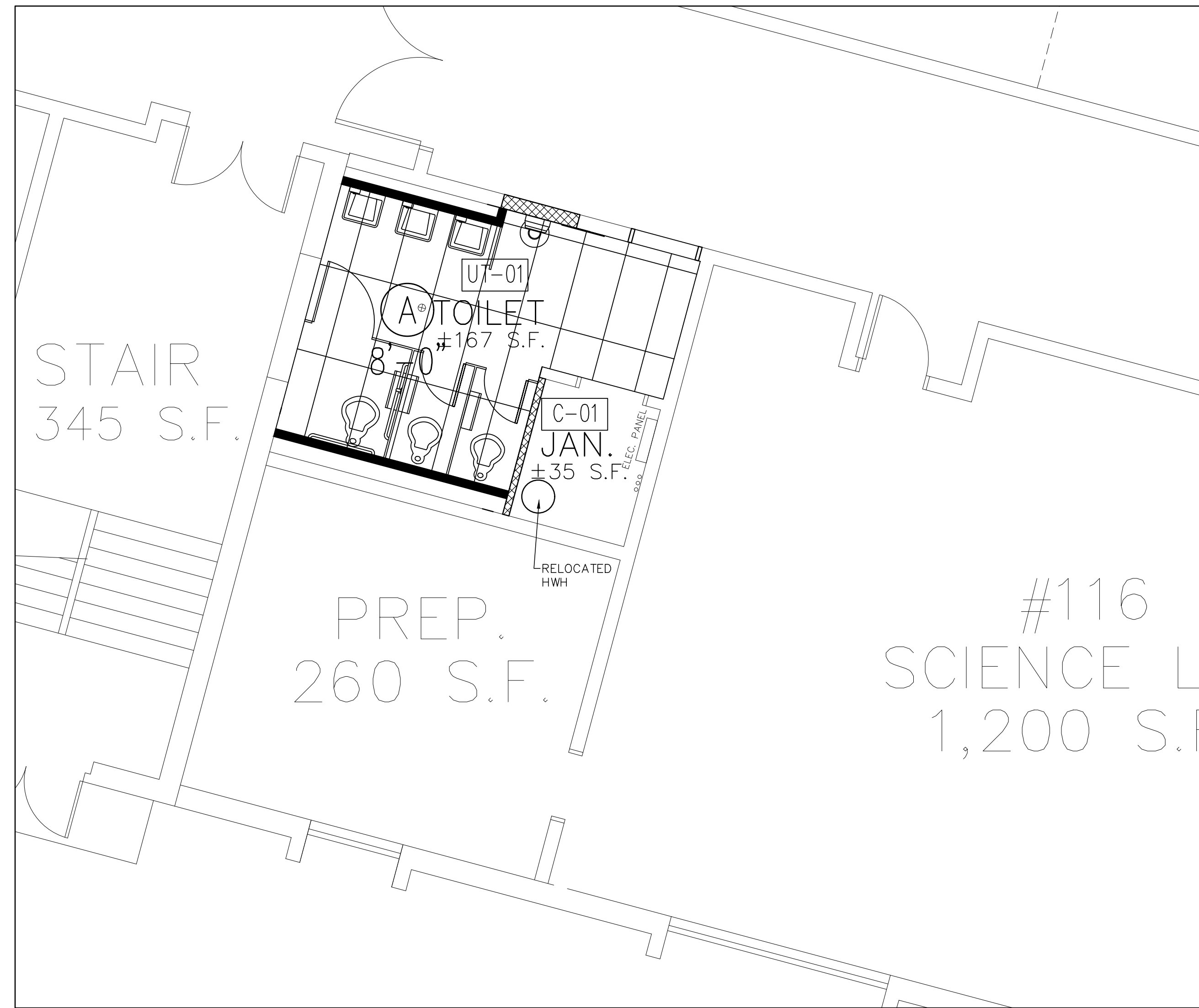
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RCP &
 ENLARGED
 TOILETS PLANS
MA-3

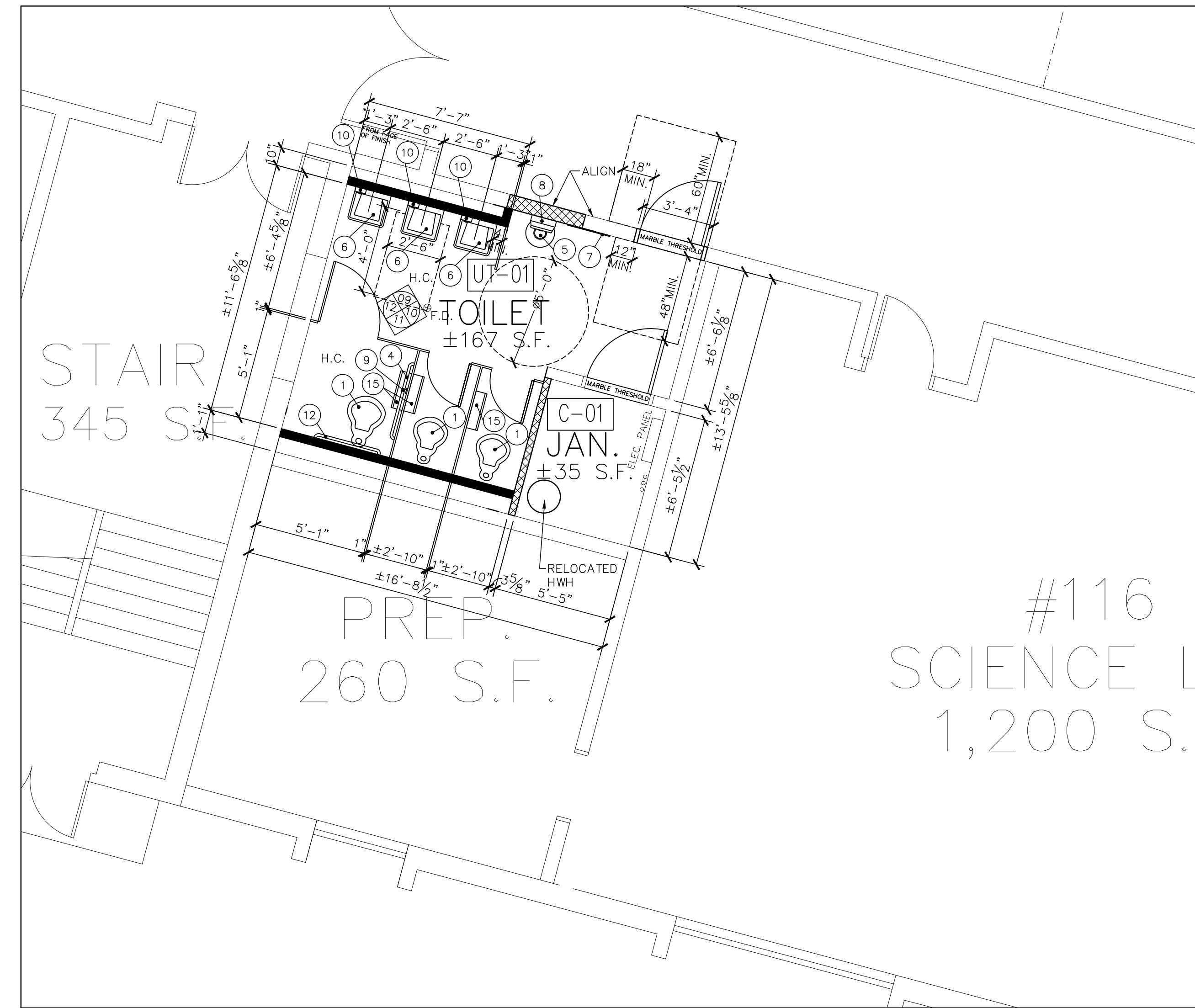
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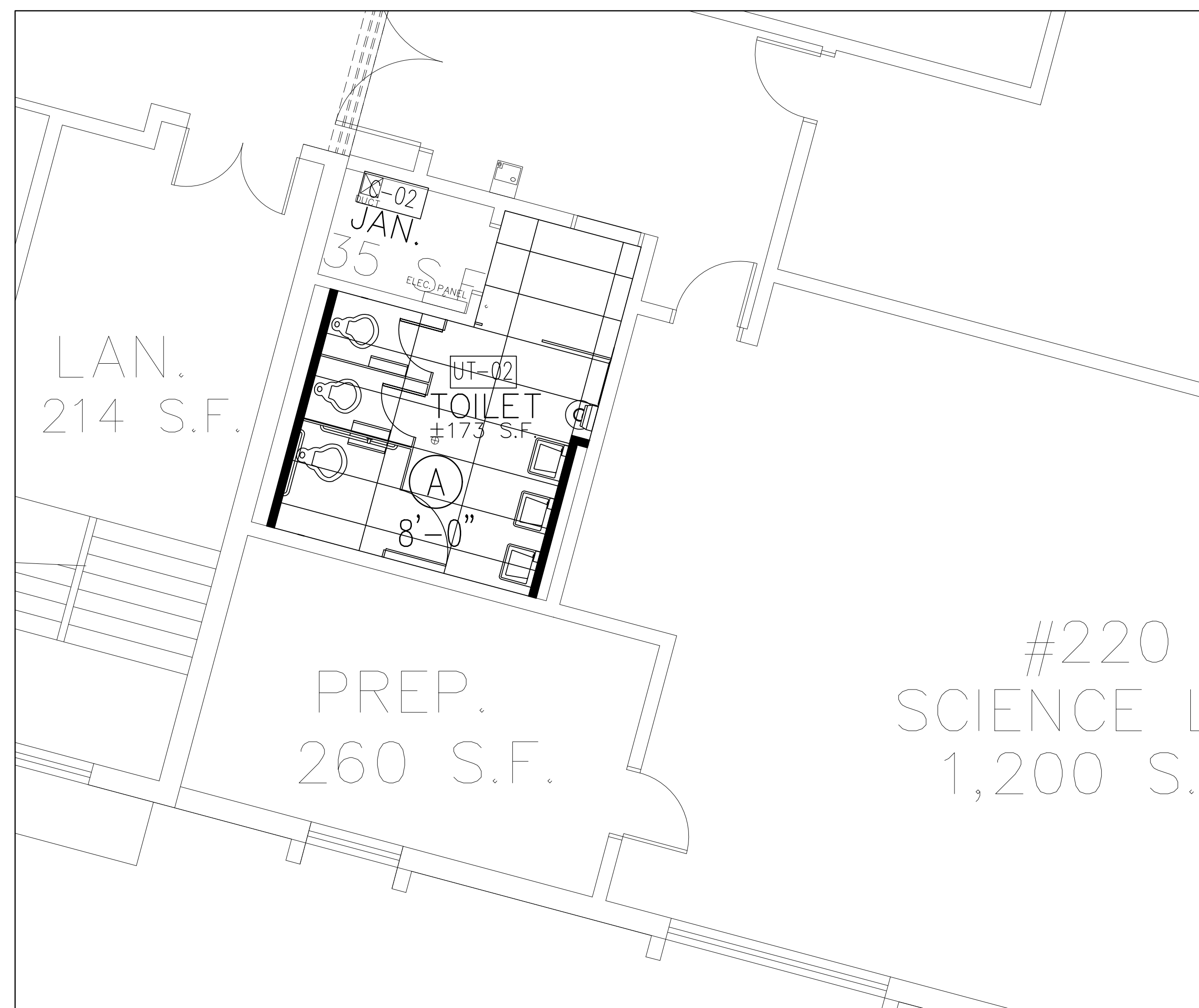
2 REFLECTED CEILING PLAN AT ENLARGED 1ST FLOOR TOILET (FORMERLY BOYS)
 MA-4 SCALE: 1/4"=1'-0"



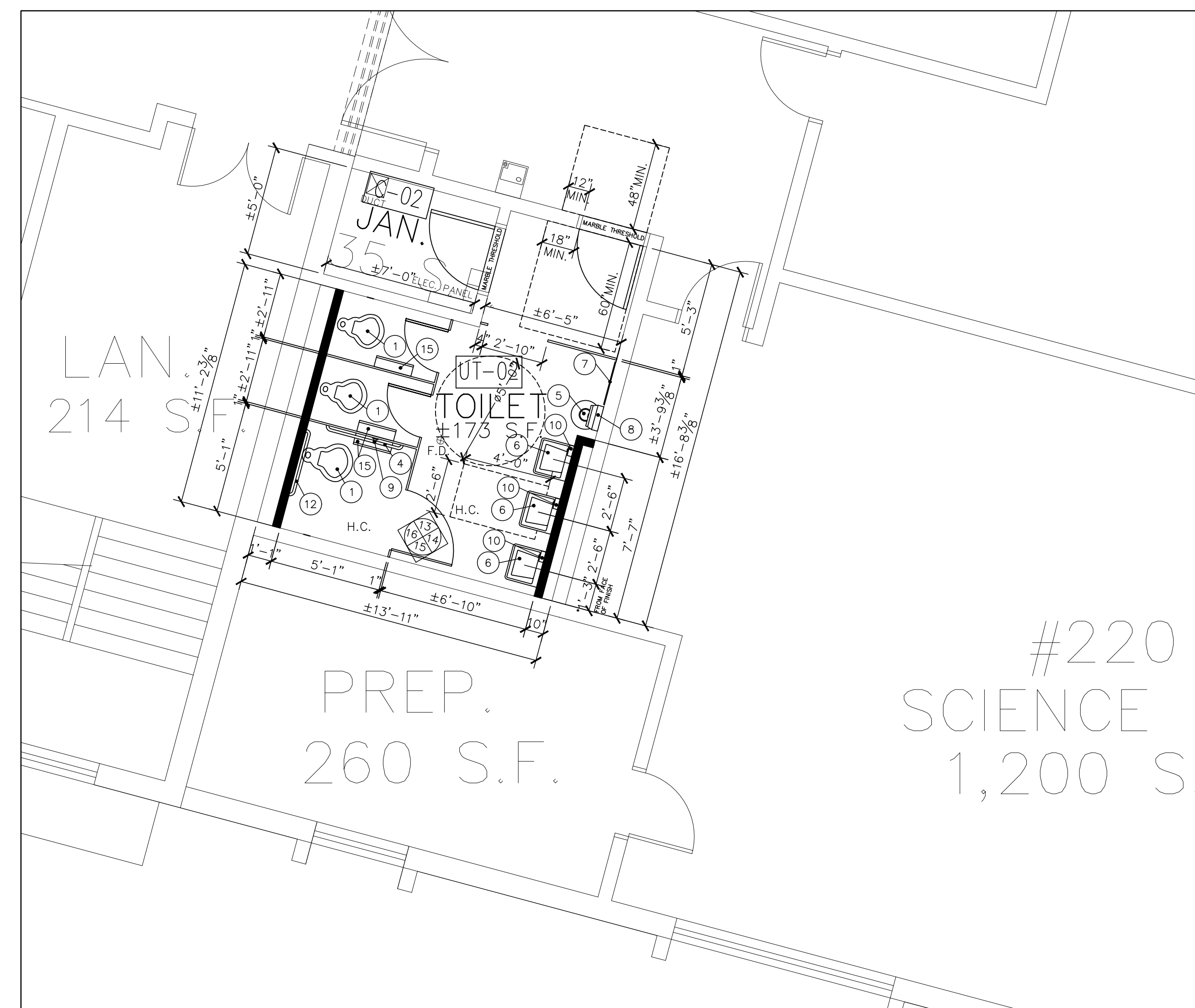
2a PROPOSED ENLARGED 1ST FLOOR TOILET (FORMERLY BOYS)
 MA-4 SCALE: 1/4"=1'-0" REFER TO MA-# FOR ACCESSORY & MATERIAL LISTS.

CEILING FINISH TYPES
 A 2'x4' LAY-IN TILE (NON-RATED)
 MOISTURE-RESISTANT w/ GRID

REFER TO SHEET MA-5
 FOR ACCESSORY/
 MATERIALS LIST AND
 ELEVATIONS.

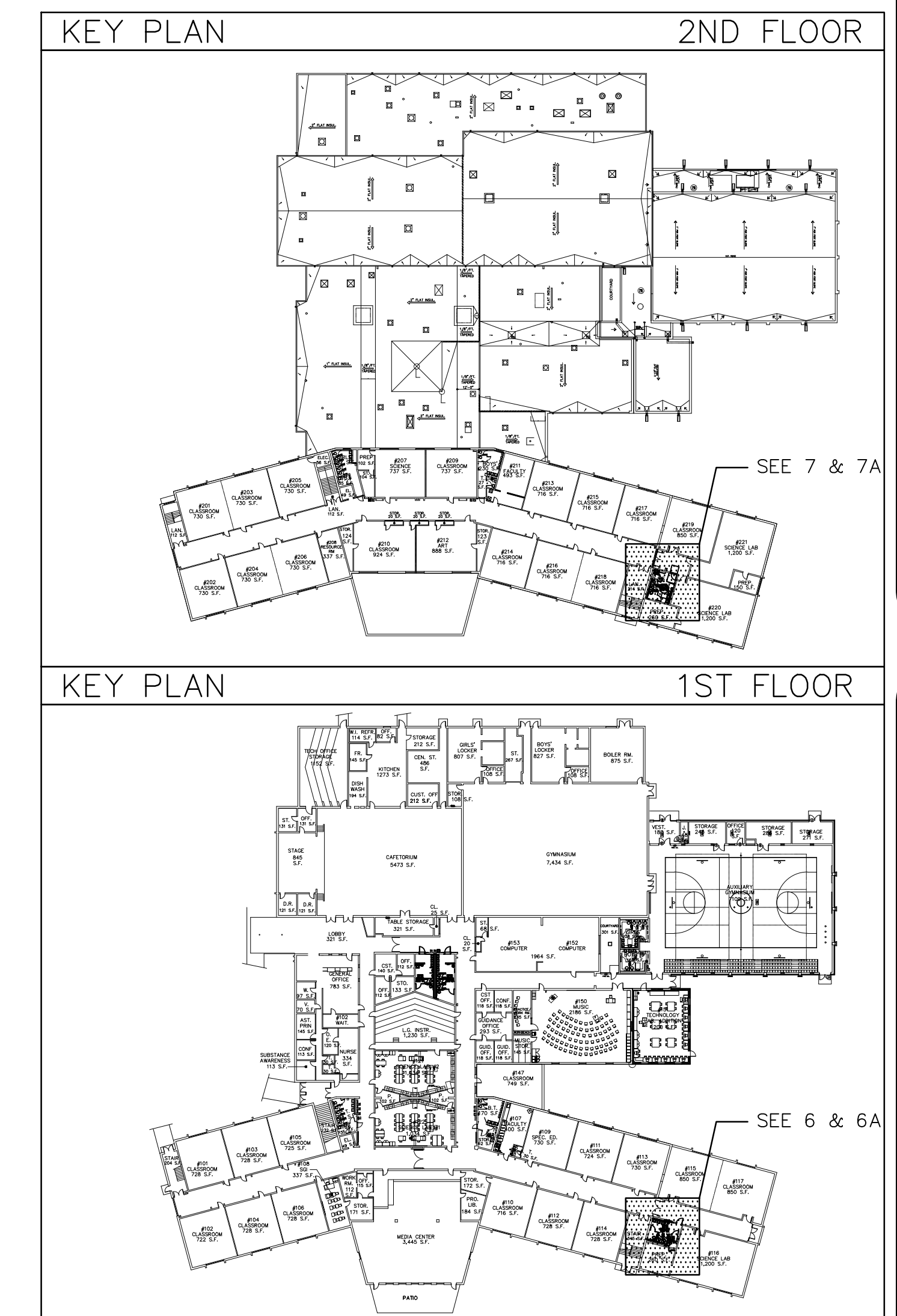


3 REFLECTED CEILING PLAN AT ENLARGED 2ND FLOOR TOILET (FORMERLY GIRLS)
 MA-4 SCALE: 1/4"=1'-0"



3a PROPOSED ENLARGED 2ND FLOOR TOILET (FORMERLY GIRLS)
 MA-4 SCALE: 1/4"=1'-0" REFER TO MA-# FOR ACCESSORY & MATERIAL LISTS.

REFER TO SHEET MA-5
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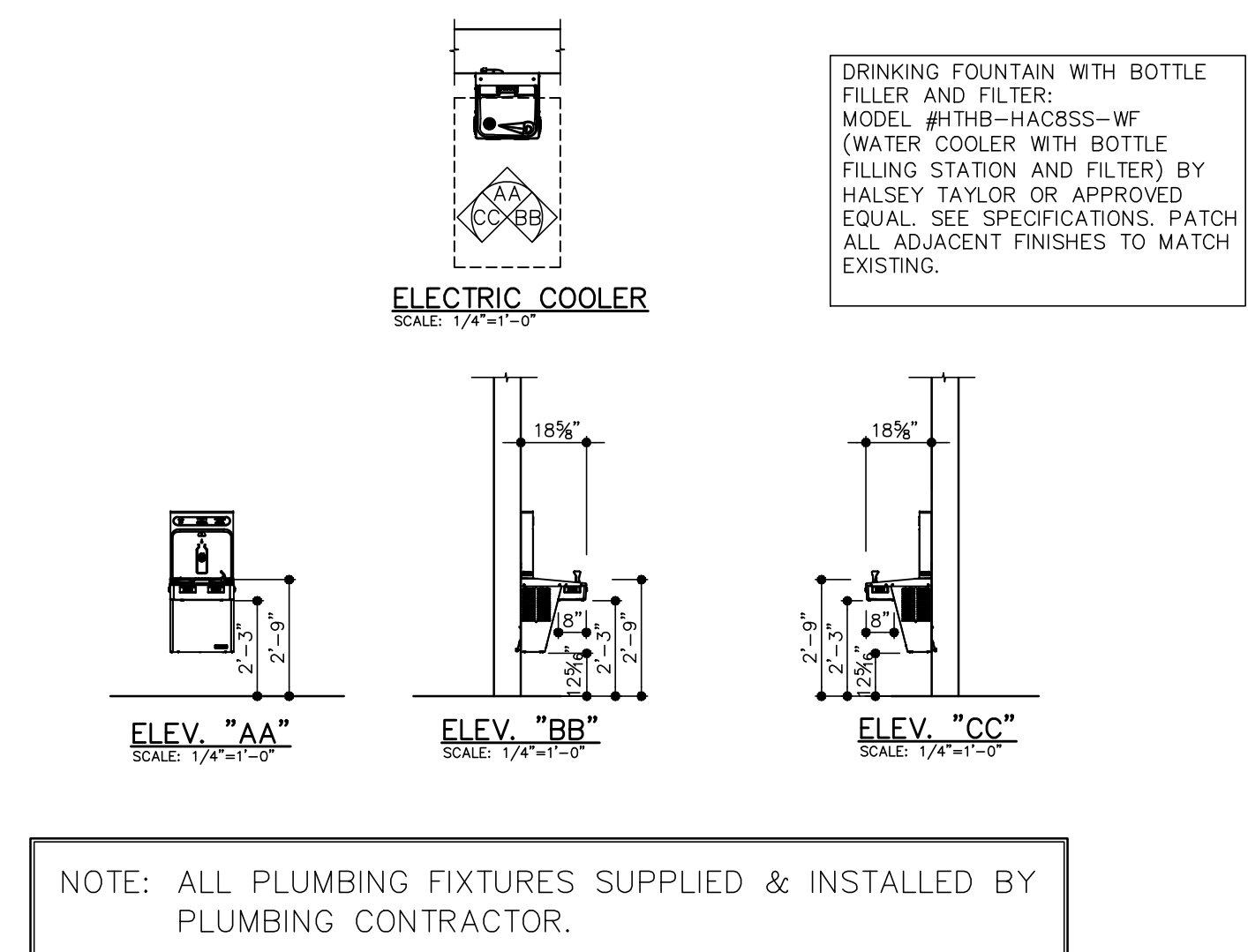
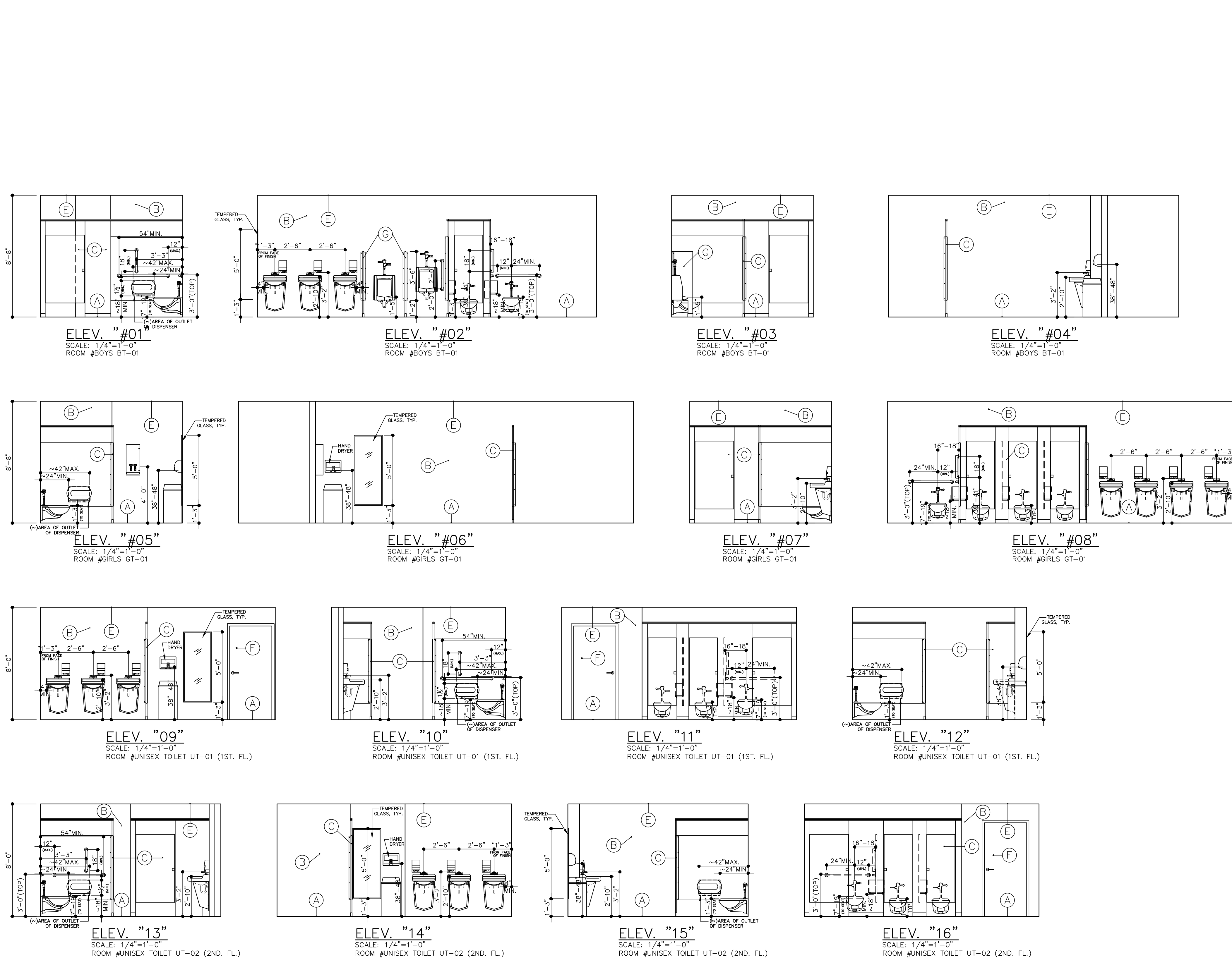
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**RCP & ENLARGED TOILETS PLANS
 MA-4**

ISSUED FOR BID: 01-29-19

DRAWINGS SHALL HAVE RECEIVED OVER 60-DAY SUBMITTAL PERIOD. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS SHOWN. DIMENSIONS SHOWN IN PINK OR RED INDICATE DIMENSIONS ON THESE SHEETS. DIMENSIONS NOT SHOWN IN PINK OR RED SHALL BE OBTAINED FROM THE ORIGINAL ARCHITECTURAL RECORD DRAWINGS. DIMENSIONS NOT SHOWN IN PINK OR RED SHALL BE OBTAINED FROM THE ORIGINAL ARCHITECTURAL RECORD DRAWINGS. DIMENSIONS NOT SHOWN IN PINK OR RED SHALL BE OBTAINED FROM THE ORIGINAL ARCHITECTURAL RECORD DRAWINGS.



NOTE: ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.

ALL PLUMBING FIXTURES & ACCESSORIES TO MEET CABO/ANSI BARRIER FREE CODE. ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR. REINFORCE TOILET PARTITION BETWEEN HANDICAP STALL & REGULAR STALL TOE CLEARANCE OF TOILET PARTITION TO BE 12" A.F.F. (TYP.). ALL TOILET ROOM & JANITORS CLOSET TO HAVE FLOOR DRAIN. ALL TOILET WALLS TO HAVE FRP WALL PANELS & EPOXY BASE (SEE SPECS.). (COLOR BY OWNER/ARCHITECT)

ALL PLANS, DETAILS, SECTIONS, SCHEDULES & ELEVATIONS SHOWN ON THIS DRAWING ARE TO BE COMPLETED BY THE GENERAL CONTRACTOR, UNLESS IT IS INDICATED BY OTHER TRADES, WHICH ARE TO BE COMPLETED BY THAT DESIGNATED TRADE.

ACCESSORY LIST: BY GENERAL CONTRACTOR (UNLESS OTHERWISE NOTED)

- ELONGATED FLUSH VALVE WALL HUNG TOILET. BY PLUMBING CONTRACTOR.
- HANDICAPPED WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
- WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
- STAINLESS STEEL HORIZONTAL GRAB BAR 42"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x42" OR EQUAL
- WASTE RECEPTACLE. SUPPLIED BY OWNER, INSTALLED BY G.C.
- WALL HUNG LAVATORY w/ACCESSIBLE LEVER HANDLE FAUCET & LAVATORY SHIELD. BY PLUMBING CONTRACTOR
- 24"x60" MIRROR w/STAINLESS STEEL FRAME. BOBRICK "B-165 2460" OR EQUAL
- ELECTRIC HAND DRYER, XLERATOR MODEL #XL-SB, 120V, SURFACE MTD, AUTOMATIC w/SOUND & SPEED CONTROL & NOISE REDUCTION NOZZLE OR APPROVED EQUAL.
- STAINLESS STEEL VERTICAL GRAB BAR 18"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x18" OR EQUAL
- SOAP DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
- STAINLESS STEEL VERTICAL GRAB BAR 24"x1 1/2" DIA. w/SATIN FINISH. (SEE PLAN FOR CONFIGURATION) BOBRICK "B-6806x24" OR EQUAL
- STAINLESS STEEL HORIZONTAL GRAB BAR 36"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x36" OR EQUAL
- SURFACE MOUNTED NAPKIN/TAMPON VENDOR SUPPLIED BY OWNER, INSTALLED BY G.C.
- SURFACE MOUNTED SANITARY NAPKIN DISPOSAL SUPPLIED BY OWNER, INSTALLED BY G.C.
- TOILET TISSUE DISPENSER SUPPLIED BY OWNER, INSTALLED BY G.C.
- MOP SERVICE SINK. BY PLUMBING CONTRACTOR.

MATERIALS LIST:

- (A) EPOXY FLOOR w/EPOXY COVE BASE (SEE SPECS.)
- (B) FULL HT. FRP WALL PANELS (SEE SPECS.)
- (C) FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET PARTITION
- (D) HANDICAPPED DRINKING FOUNTAIN WITH BOTTLE FILLER
- (E) LAY-IN CEILING TILE
- (F) NEW DOOR (SEE DOOR SCHEDULE)
- (G) PLASTIC URINAL SCREEN (BY SANTANA OR SANATEC OR APPROVED EQUAL)

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b.	f.
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ENLARGED TOILETS ELEVATIONS
MA-5

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ROOM AND FINISH SCHEDULE

FL.	ROOM NO.	ROOM NAME	NEW FLOOR	NEW BASE	NEW WALLS	FIRE RATING (HOUR)	NEW CEILING	NEW CEILING HT.	INTERIOR FINISH CLASSIFICATION	CEILING TILE TYPE	REMARKS
FIRST FLOOR	GT-01	MIDDLE SCHOOL GIRLS TOILET	EPOXY RESIN	EPOXY RESIN	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1.
	BT-01	MIDDLE SCHOOL BOYS TOILET	EPOXY RESIN	EPOXY RESIN	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-8"±	C	A	■ SEE GENERAL NOTE 1.
	UT-01	MIDDLE SCHOOL UNISEX TOILET	EPOXY RESIN	EPOXY RESIN	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-0"±	C	A	■ SEE GENERAL NOTE 1.
	C-02	CUSTODIAN CLOSET	EXISTING TO REMAIN	VINYL AT NEW WALL	FRP PANELS AT NEW WALL, SEE SPEC.	--	MODIFY EXISTING	0	-	-	SEE GENERAL NOTE 1.
SECOND FLOOR	UT-02	MIDDLE SCHOOL UNISEX TOILET	EPOXY RESIN	EPOXY RESIN	FRP PANELS, SEE SPEC.	--	LAY-IN	8'-0"±	C	A	SEE GENERAL NOTE 1.
	C-03	CUSTODIAN CLOSET	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	--	-	-	-	-	-

INTERIOR FINISH CLASSIFICATION	
CLASSROOM OF MATERIALS	SURFACE BURNING CHARACTERISTIC TEST
A	0 TO 25
B	26 TO 75
C	76 TO 200

REMARKS

■ WITH HOLD DOWN CLIPS 6"-0" OUT FROM THE PIPE CHASE WALL IN GANG TOILETS

CEILING FINISH TYPES

(A) 2'x4' LAY-IN TILE (NON-RATED) MOISTURE-RESISTANT w/ GRID

GENERAL NOTES:

1. ADJUST MASTIC DEPTH & SHIMS AS REQUIRED TO ACHIEVE PLUMB WALL.

NOTES:

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT AND LIGHTING.

2. CEILING LIGHT LOCATIONS TO BE COORDINATED WITH LIGHTING AND MECHANICAL DRAWINGS FOR MECH. DUCT CLEARANCE (TYP.)

ALL DOORS RECEIVE NEW SIGNAGE(TYP.)

SIGNAGE: ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI 117.1 ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE. INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN. OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 0 & FIG. 8.

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE, PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.

IT IS CONTRACTOR'S RESPONSIBILITY TO REMOVE, PATCH, REPAIR EXISTING FLOOR, BASE, WALL, CEILING IN AREAS AS NOTED IN THIS SCHEDULE; TO RECEIVE NEW FINISH MATERIAL OR PAINT.

IF SURFACE HAS NO WORK LISTED IN THIS SCHEDULE BUT CUT, MODIFIED BY OTHER PRIME CONTRACTORS TO PERFORM THEIR WORK, IT IS THE RESPONSIBILITY OF EACH OF THOSE PRIME CONTRACTOR TO PATCH, REPAIR, PAINT THE SURFACE TO ITS ORIGINAL CONDITION.

EXISTING FLOOR & BASE FINISH INDICATED IS ONLY THE TOP VISIBLE FINISH. SOME ROOMS MAY HAVE OTHER FINISHES BELOW. CONTR. TO CHECK EACH ROOM FINISH ON SITE AND TO REMOVE ALL LAYERS ABOVE STRUCTURAL SLAB AND INSTALL NEW FLOOR & BASE.

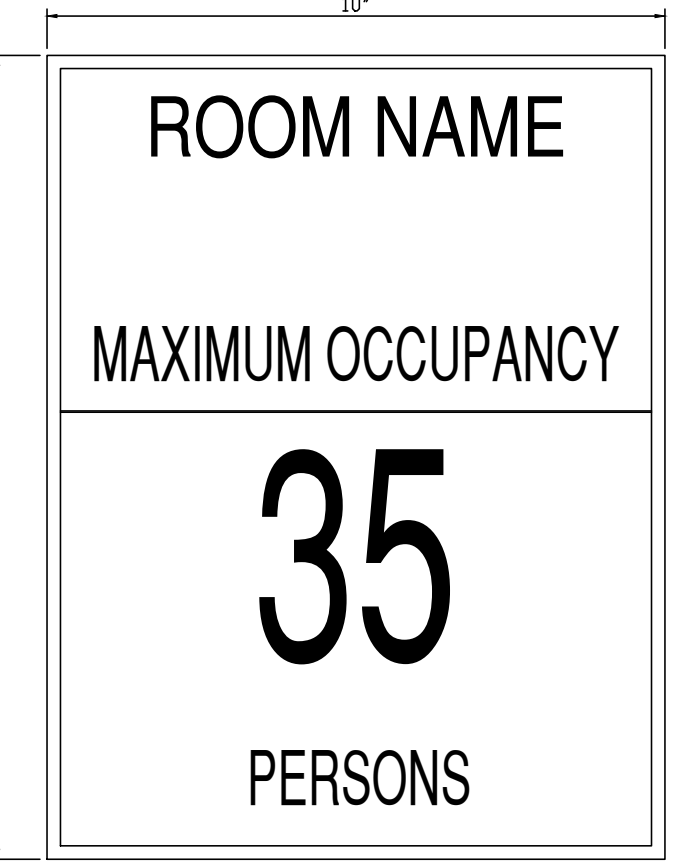
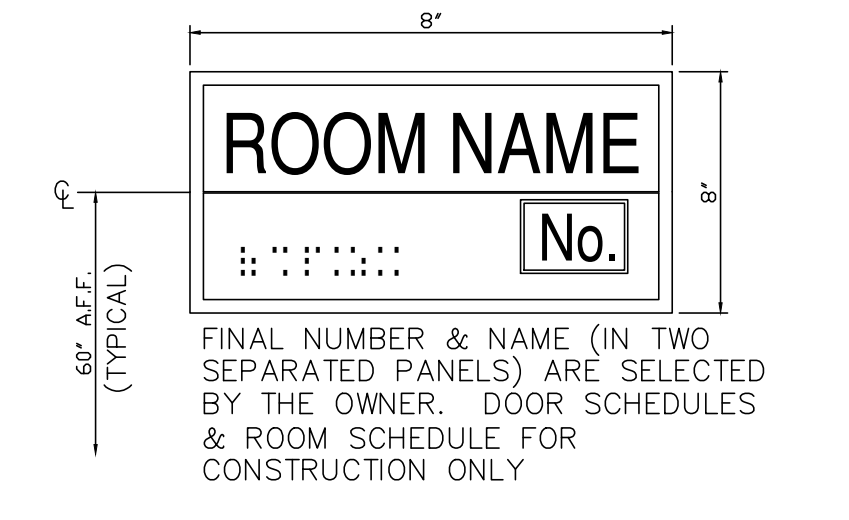
DEMOLITION WORK: SEE DEMO PLANS, NOTES, AND SPECIFICATION FOR DEMO WORK.(TYP.)

CEILING WORK: SEE REFLECTED CEILING PLANS, NOTES, AND SPECIFICATION FOR CEILING WORK & CEILING HEIGHT(TYP.).

H.V.A.C.WORK: SEE MECHANICAL & PLUMBING DRAWINGS, MECH./PLUMB. DEMO PLANS, NOTES, SPECIFICATIONS FOR H.V.A.C. & PLUMBING DEMOLITION AND NEW WORKS (TYP.).

ELECTRICAL WORK: SEE ELECTRICAL DRAWINGS, NOTES, SPECIFICATIONS FOR ELECTRICAL WORKS(TYP.).

FIRE PROTECTION: SEE FIRE PROTECTION DWGS FOR SPRINKLERED AREAS(TYP.).



NOTE: (FIRE RATING) ALL WALL, CEILING, FLOOR OR ROOF CONSTRUCTION SHALL MEET ALL FIRE RATING INDICATED IN EACH ROOM AREA ON THE SCHEDULE.

1- ALL INTERIOR FINISHES SHALL MEET MINIMUM FLAME SPREAD CLASSROOM REQUIREMENT. (BASED ON IBC 2015, NEW JERSEY EDITION)

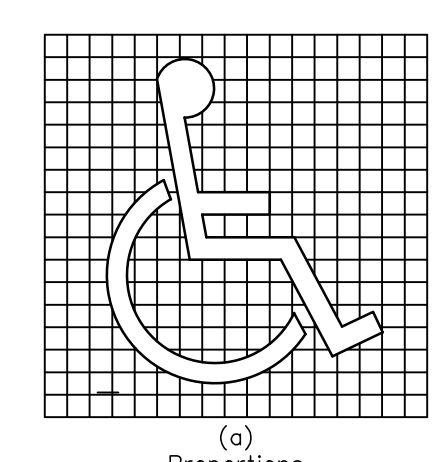
2- ALL CEILING PANELS SHALL MEET CLASS A REQUIREMENT.

3- SPRAY FIREPROOFING MATERIAL ON EXPOSED STEEL BEAMS, COLUMNS, BAR-JOISTS & STEEL DECK IN ORDER TO MEET FIRE RATING.

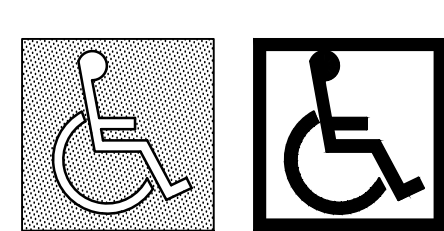
G.C.WORK: CERAMIC TILE: COLOR AND PATTERN SELECTED FROM MANUFACTURER'S STANDARD PACKAGE. THE PATTERN FOR ALL AREAS MAY BE AS MANY AS THREE (3) DIFFERENT COLORS USED IN A PATTERN THAT DOES NOT REQUIRE CUT ACCENT COLOR TILES PER THE OWNER'S/ARCHITECT'S DIRECTION.

SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL & SITE DRAWINGS FOR ITEMS LISTED BY EACH TRADE.

UNLESS NOTED OTHERWISE, ALL ITEMS SHALL BE BY THE GENERAL CONTRACTOR.

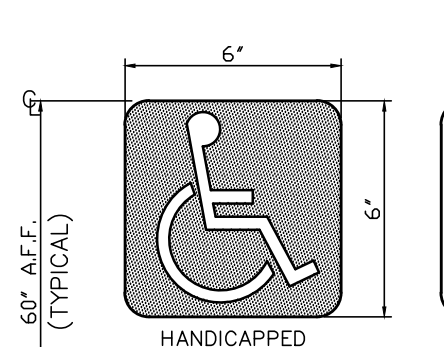


Proportions International Symbol of Accessibility



Display Conditions International Symbol of Accessibility

SYMBOLS:



HANDICAPPED



BOYS HANDICAPPED



GIRLS HANDICAPPED



UNISEX TOILET

Raised and Braille Characters and Pictorial Symbol Signs (Pictograms). Letters and numerals shall be raised 1/32 in. upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 in. (16 mm) high, but no higher than 2 in. (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 in. (152 mm) minimum in height.

ROOM IDENTIFICATION ENGRAVED SYSTEM DESIGN:

2 COLOR LAYER LAMINATED PLASTIC SIGN WITH RAISED LETTERS AND RAISED GRADE 2 BRAILLE.

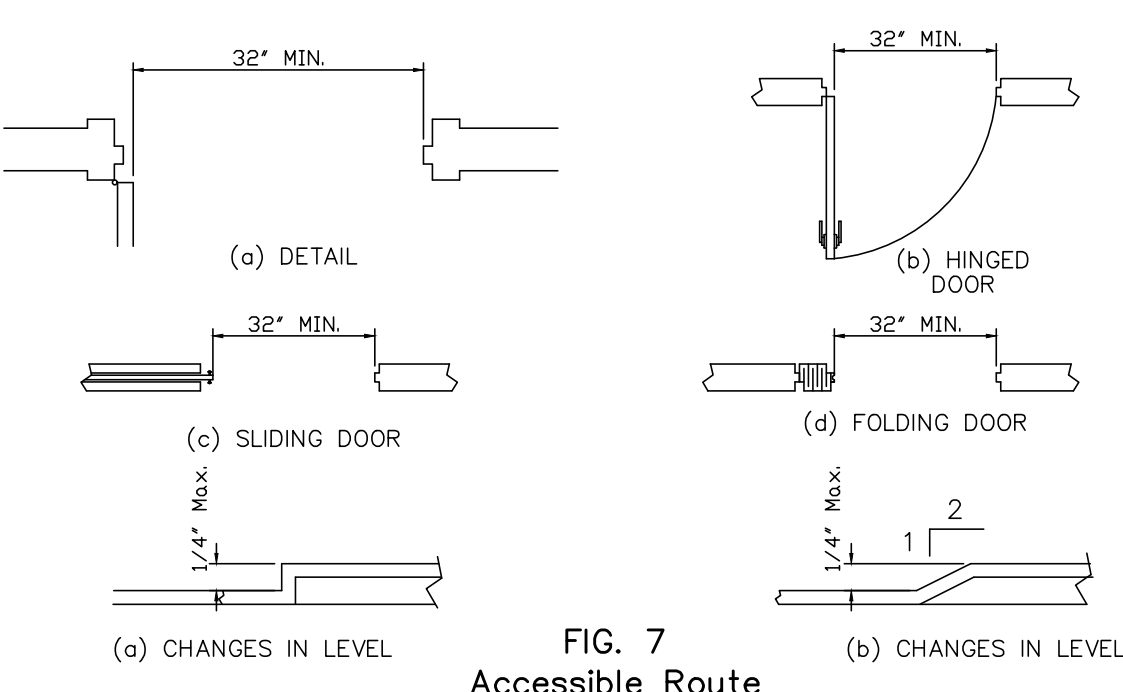


FIG. 7 Accessible Route

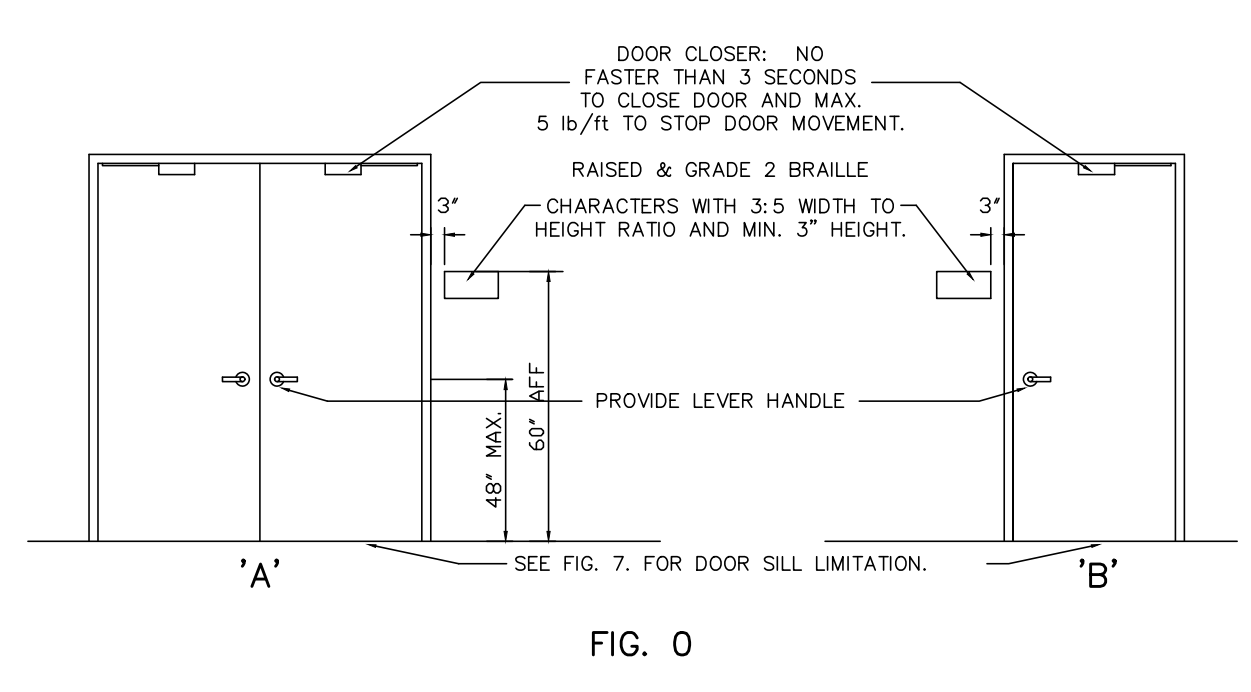


FIG. 0

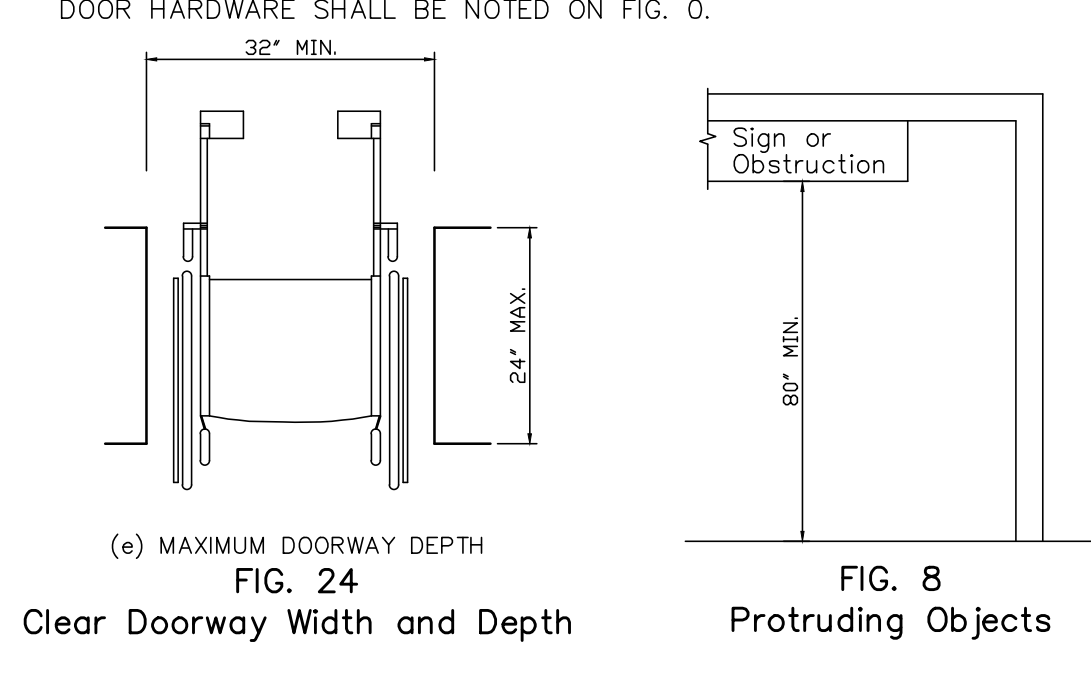
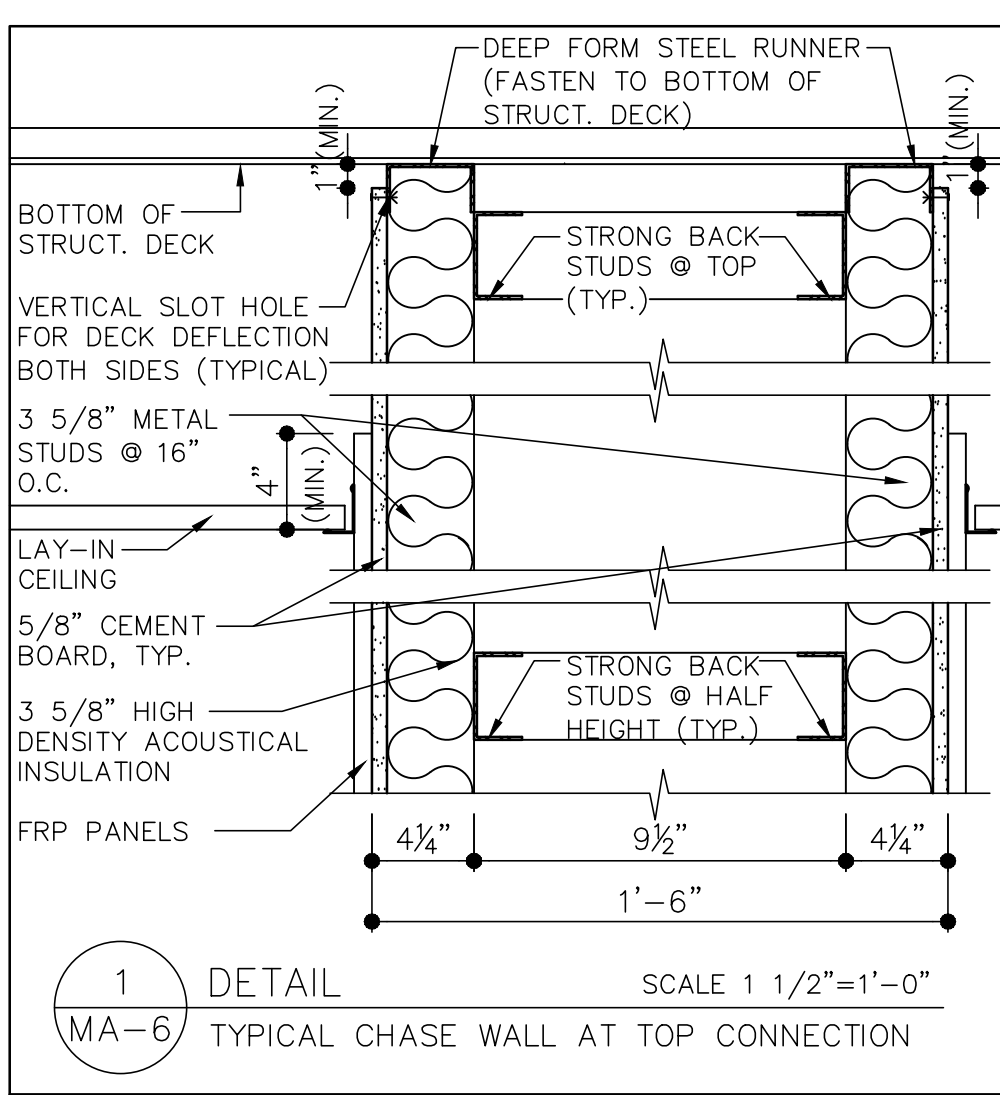
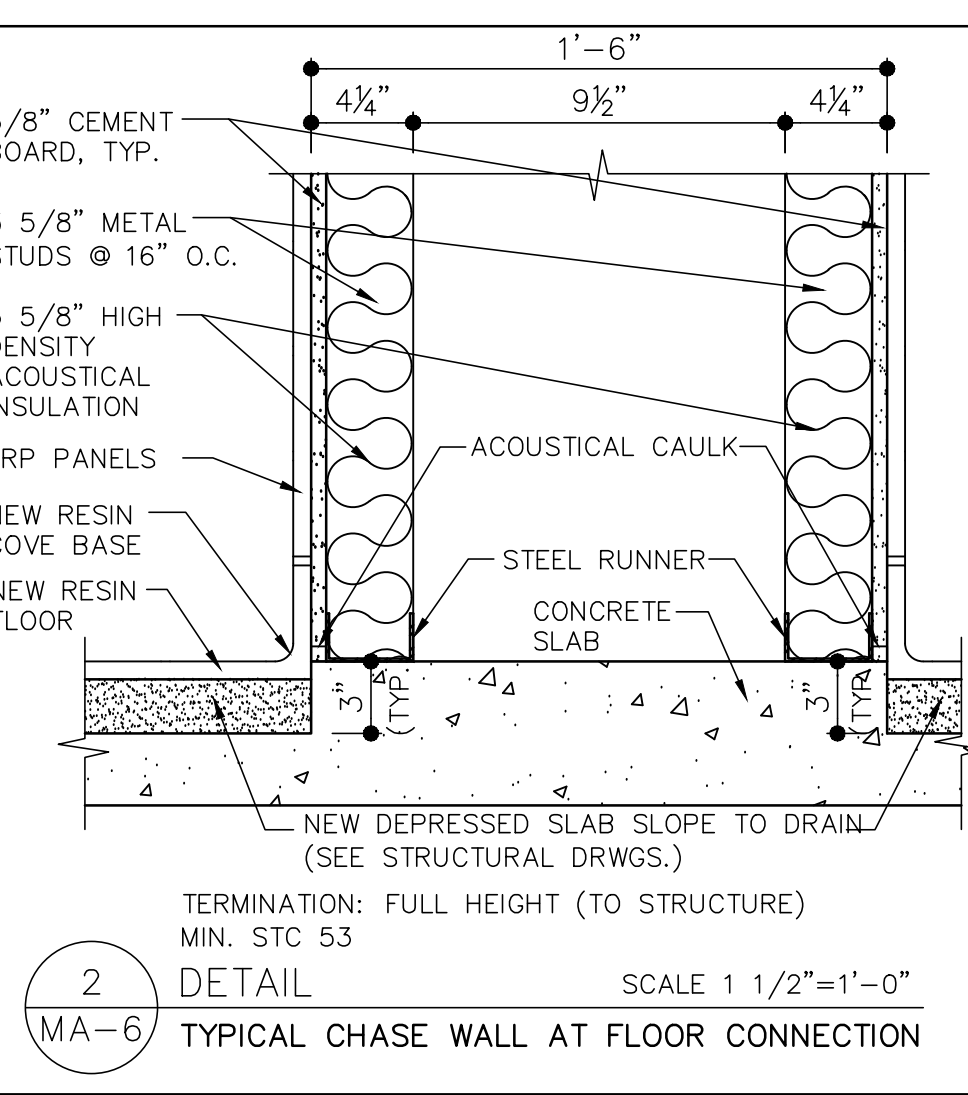


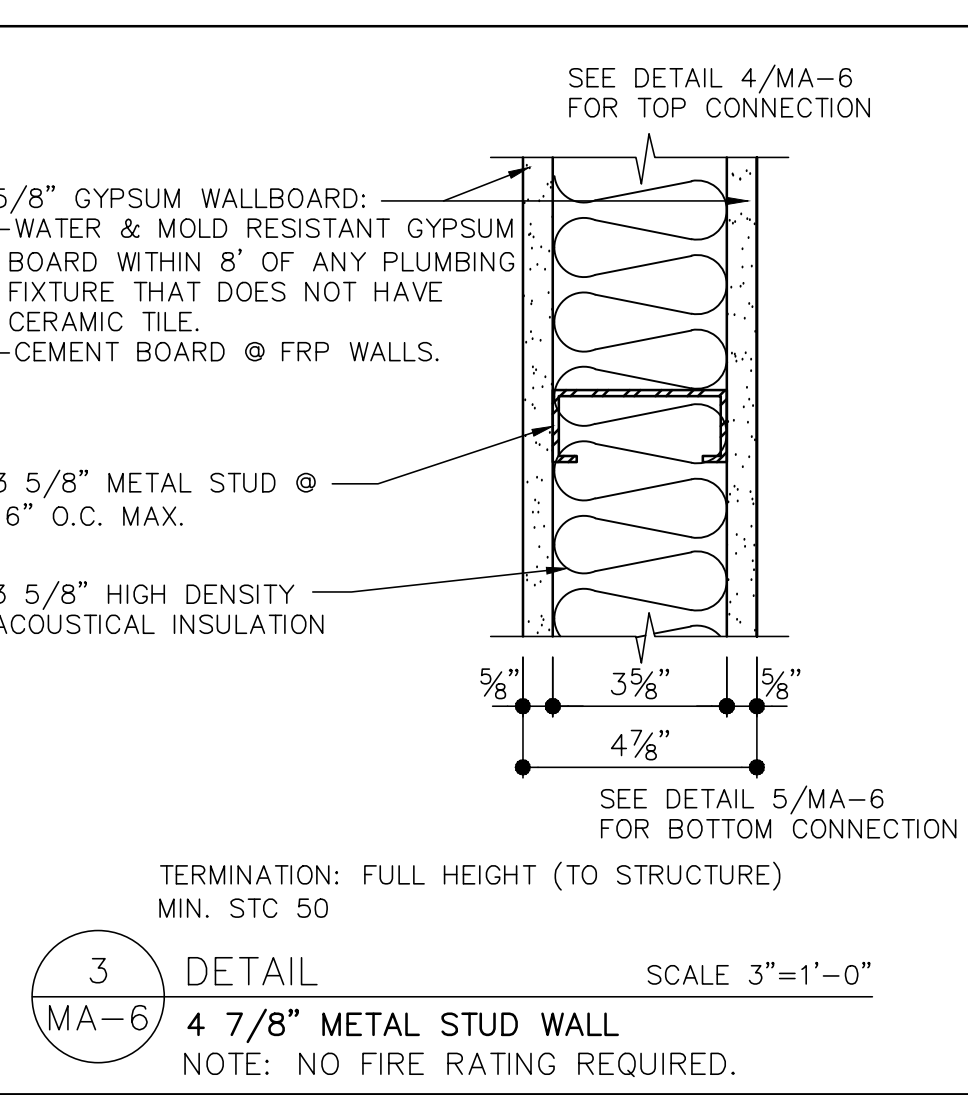
FIG. 8 Protruding Objects



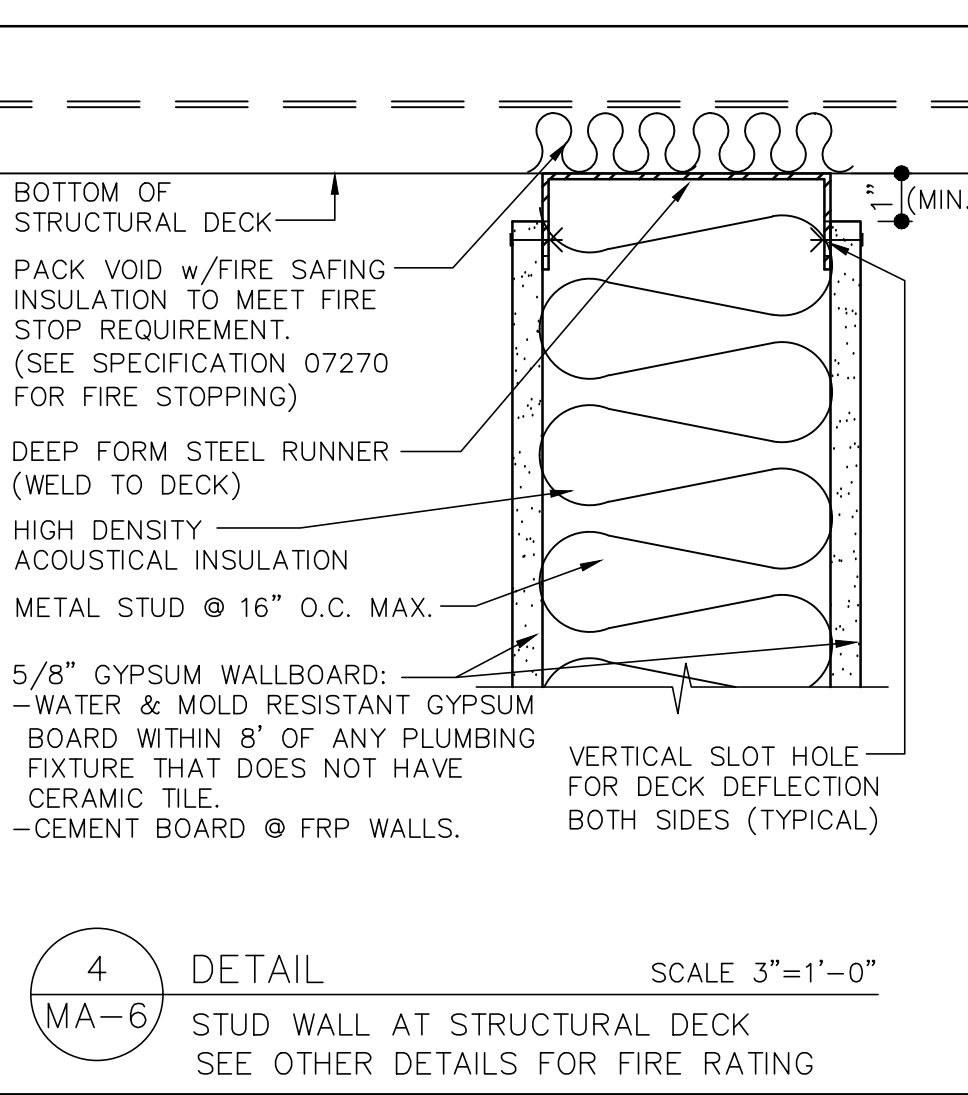
1 DETAIL SCALE 1 1/2"=1'-0" MA-6 TYPICAL CHASE WALL AT TOP CONNECTION



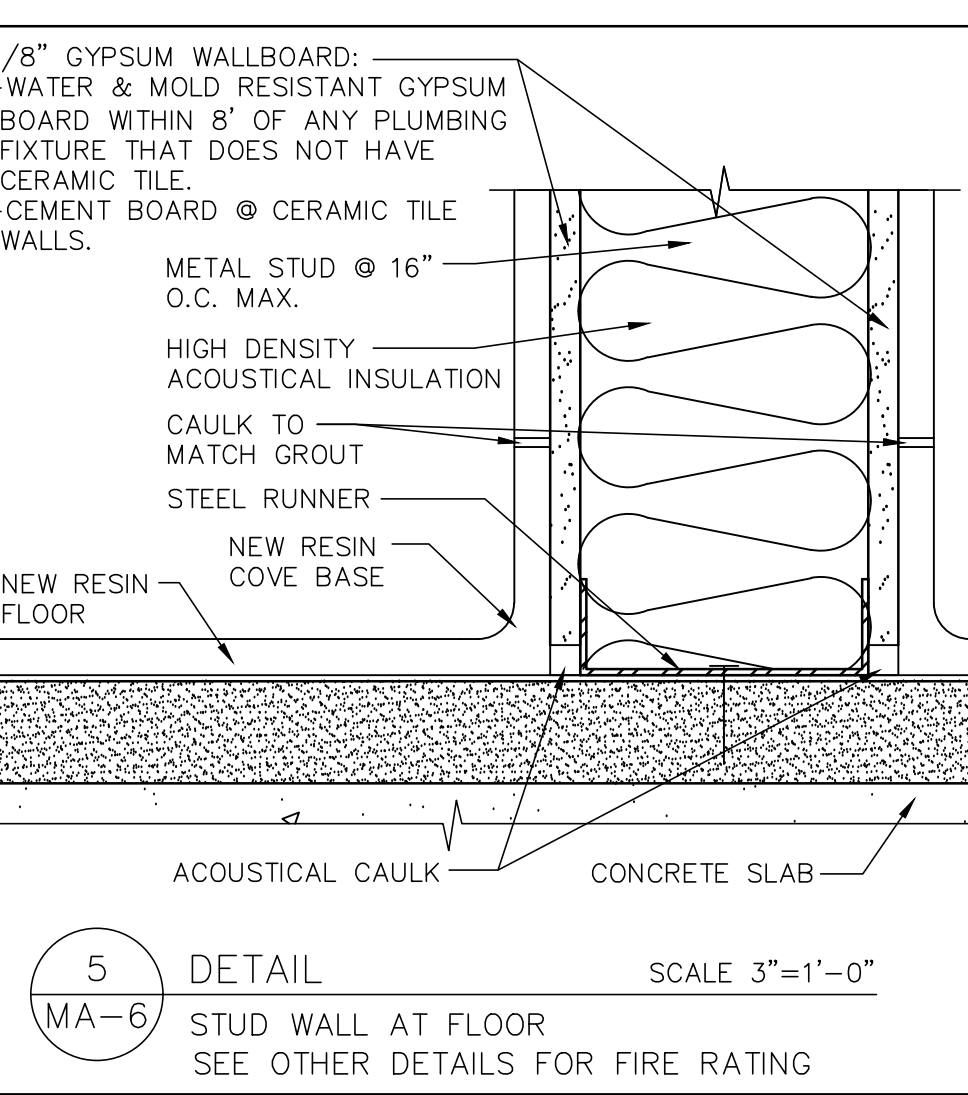
2 DETAIL SCALE 1 1/2"=1'-0" MA-6 TYPICAL CHASE WALL AT FLOOR CONNECTION



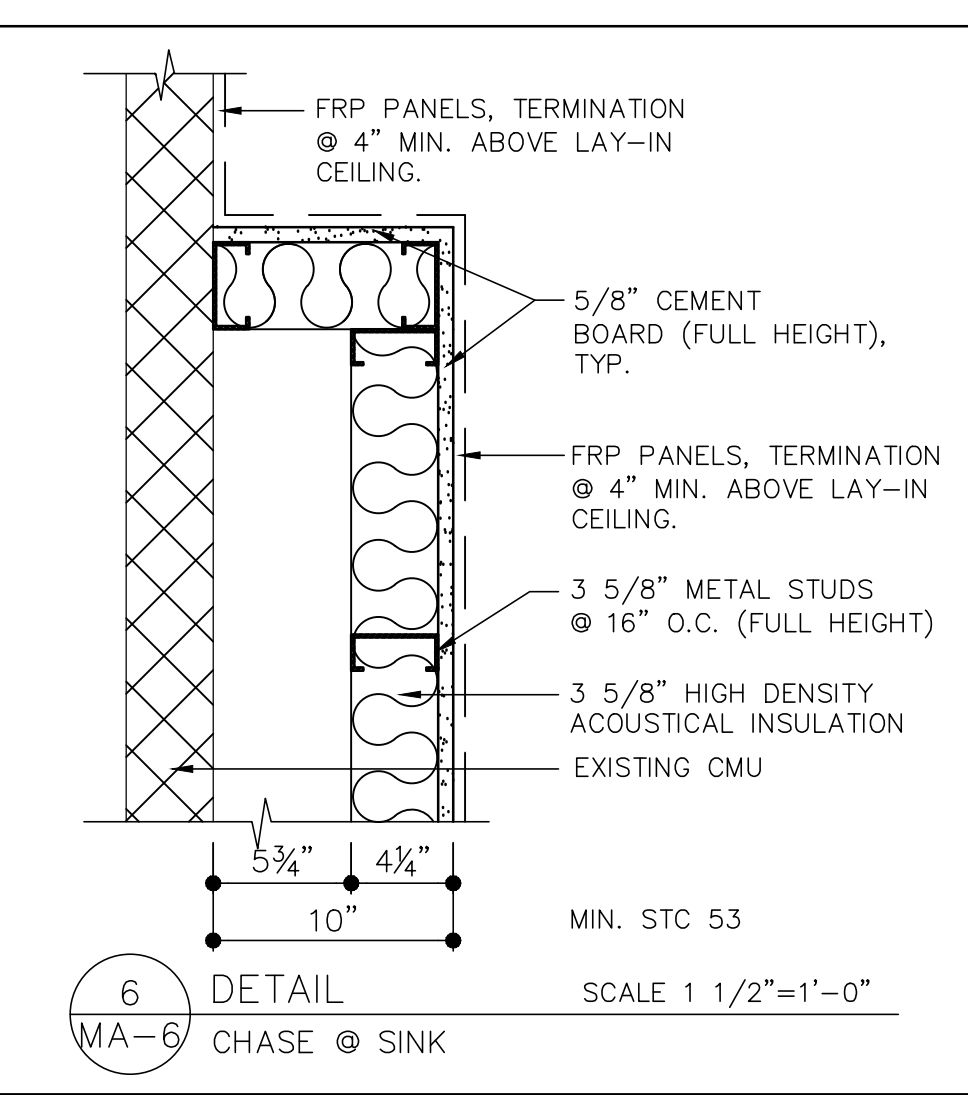
3 DETAIL SCALE 3"=1'-0" MA-6 4 7/8" METAL STUD WALL NOTE: NO FIRE RATING REQUIRED.



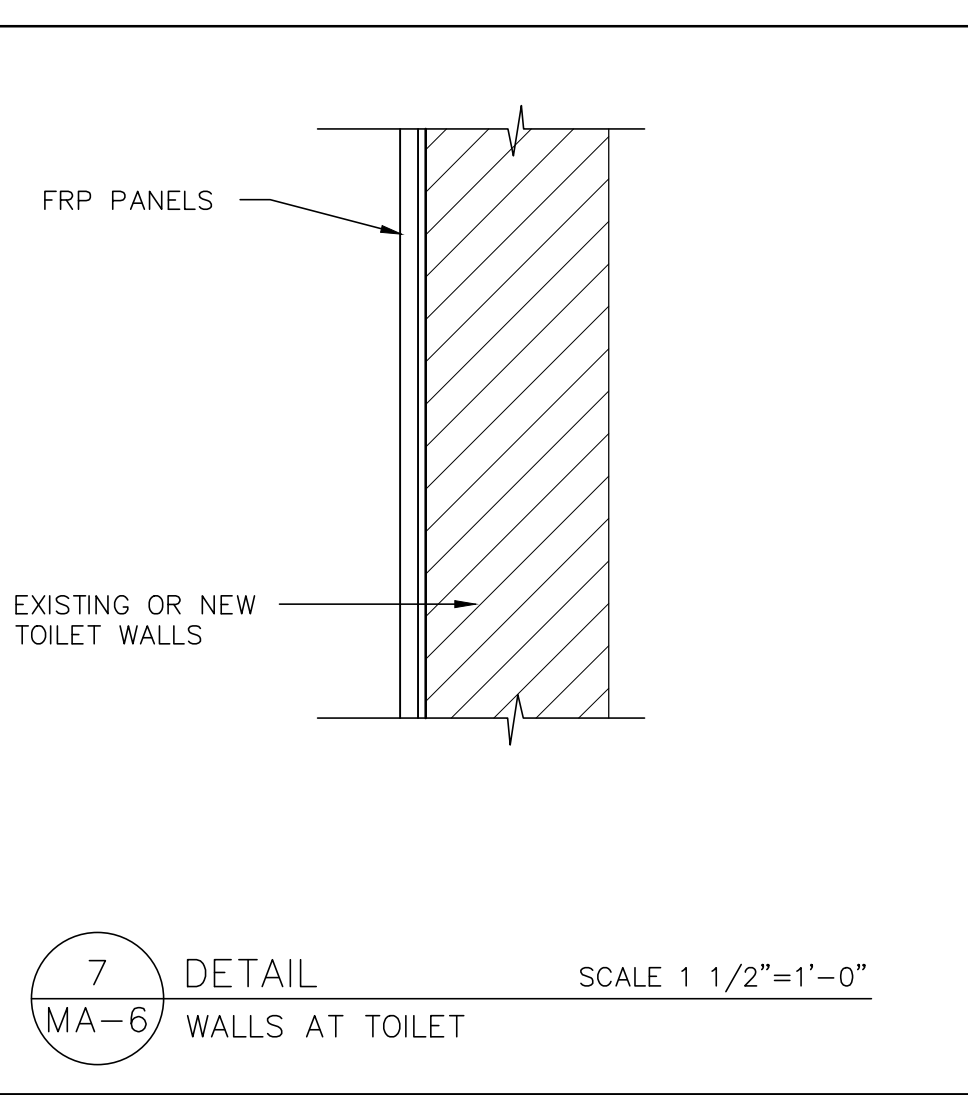
4 DETAIL SCALE 3"=1'-0" MA-6 STUD WALL AT STRUCTURAL DECK SEE OTHER DETAILS FOR FIRE RATING



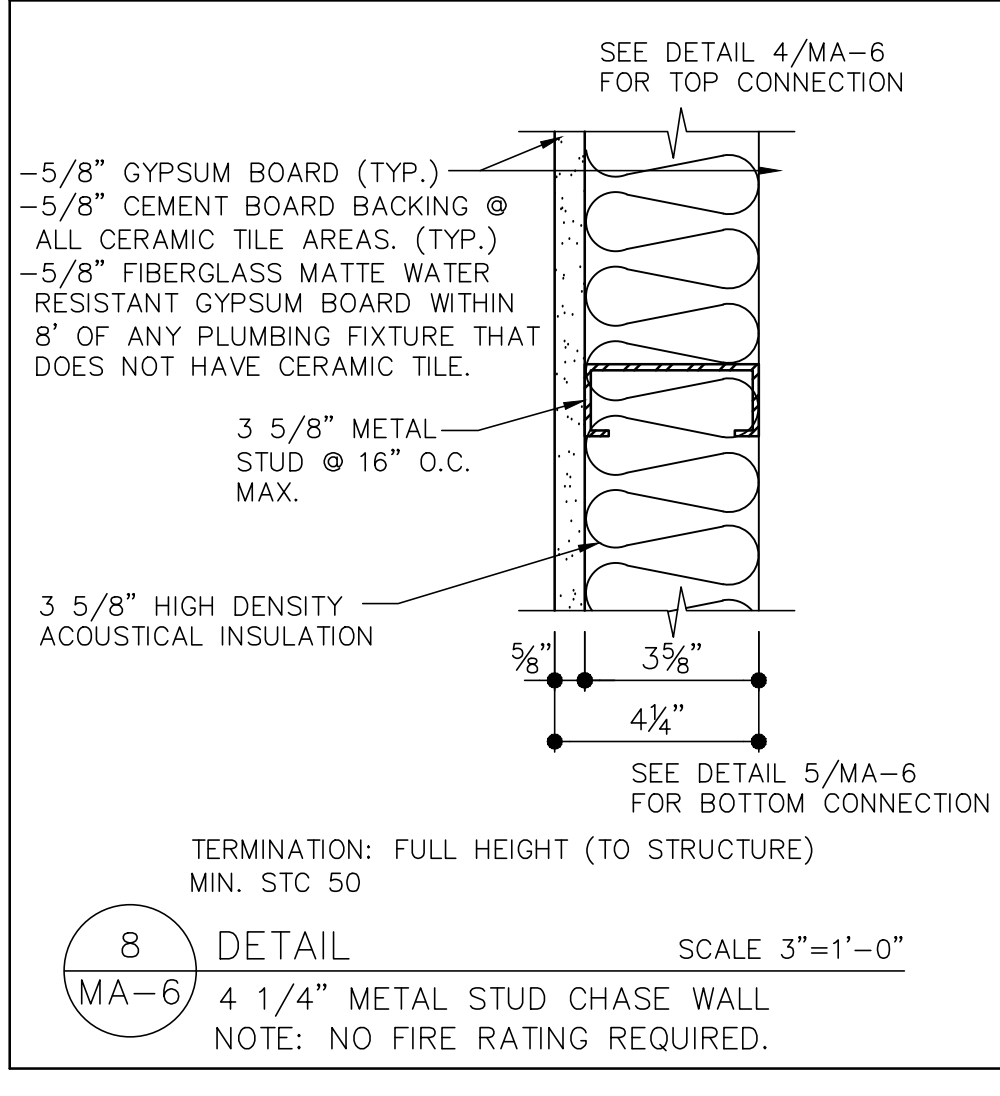
5 DETAIL SCALE 3"=1'-0" MA-6 STUD WALL AT FLOOR SEE OTHER DETAILS FOR FIRE RATING



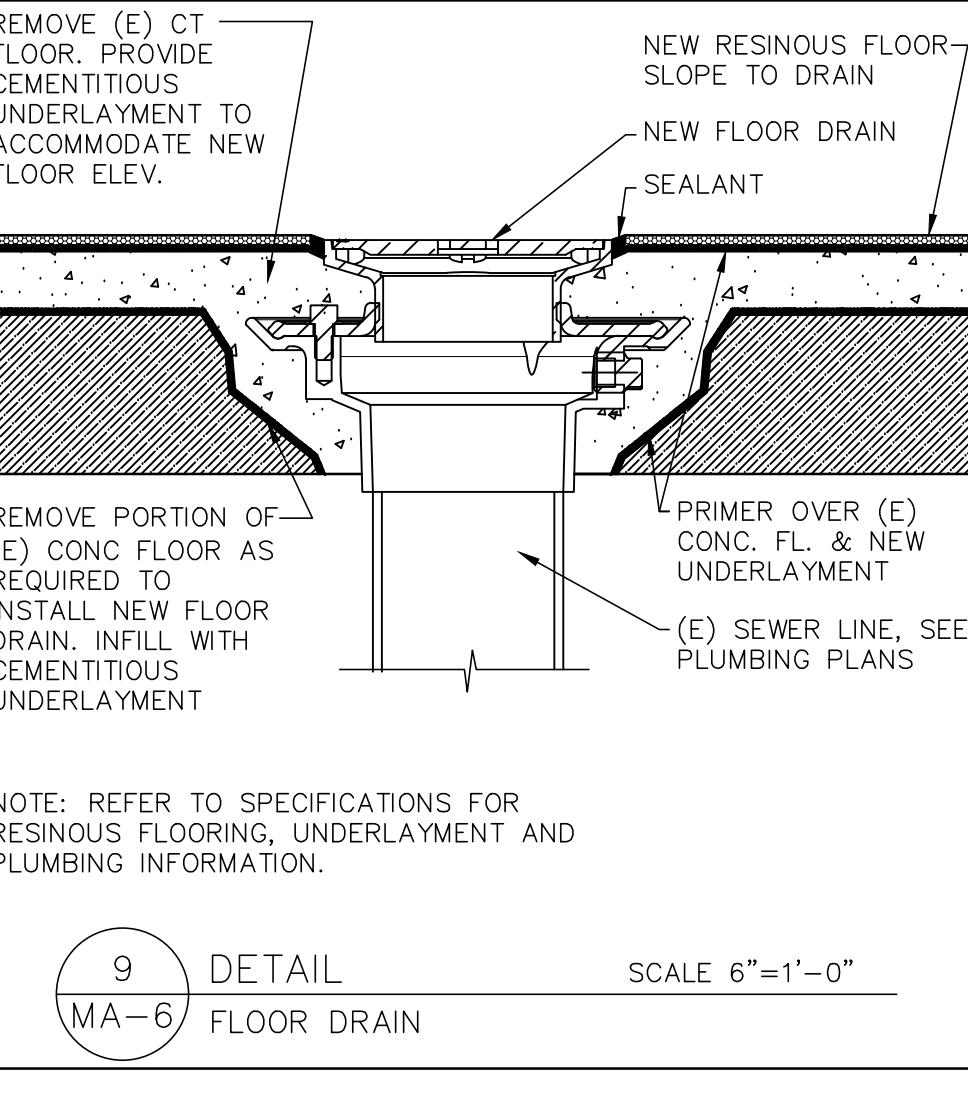
6 DETAIL SCALE 1 1/2"=1'-0" MA-6 CHASE @ SINK



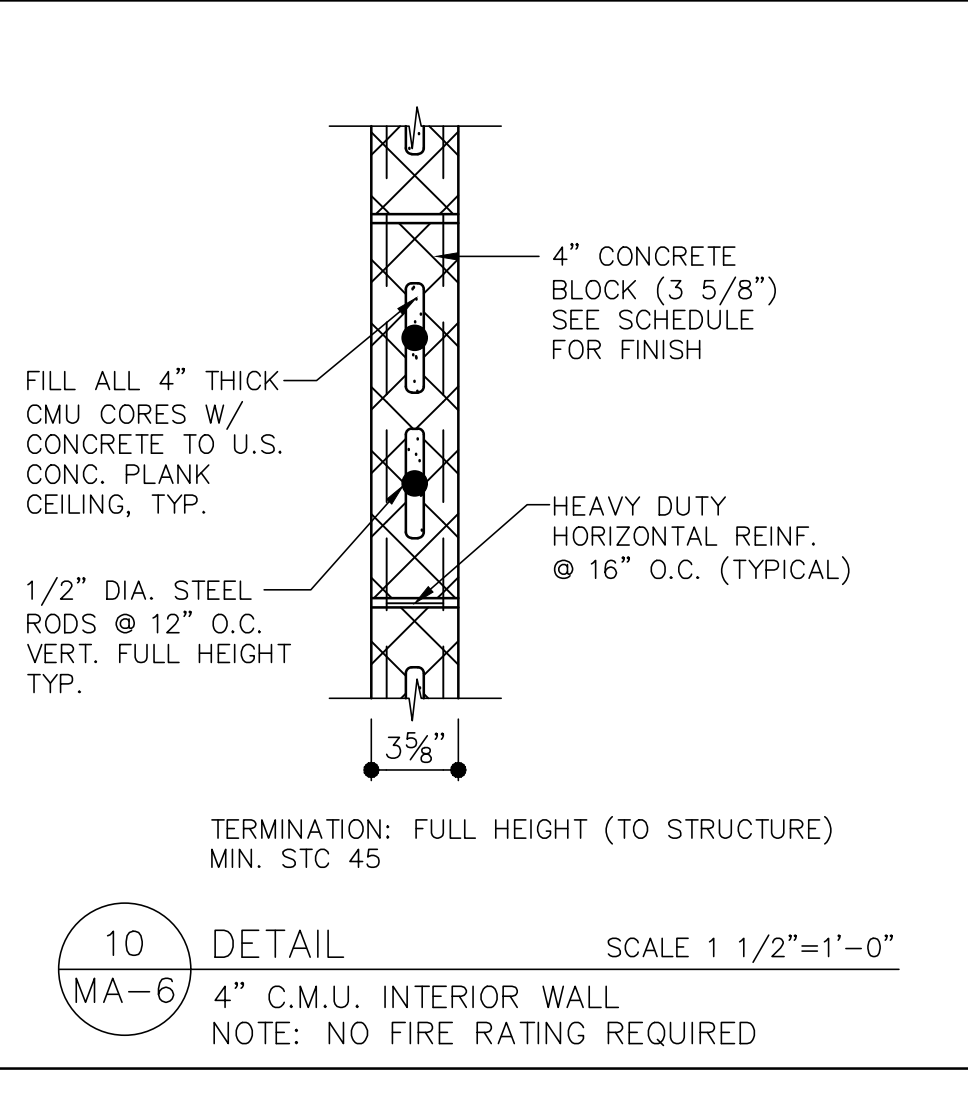
7 DETAIL SCALE 1 1/2"=1'-0" MA-6 WALLS AT TOILET



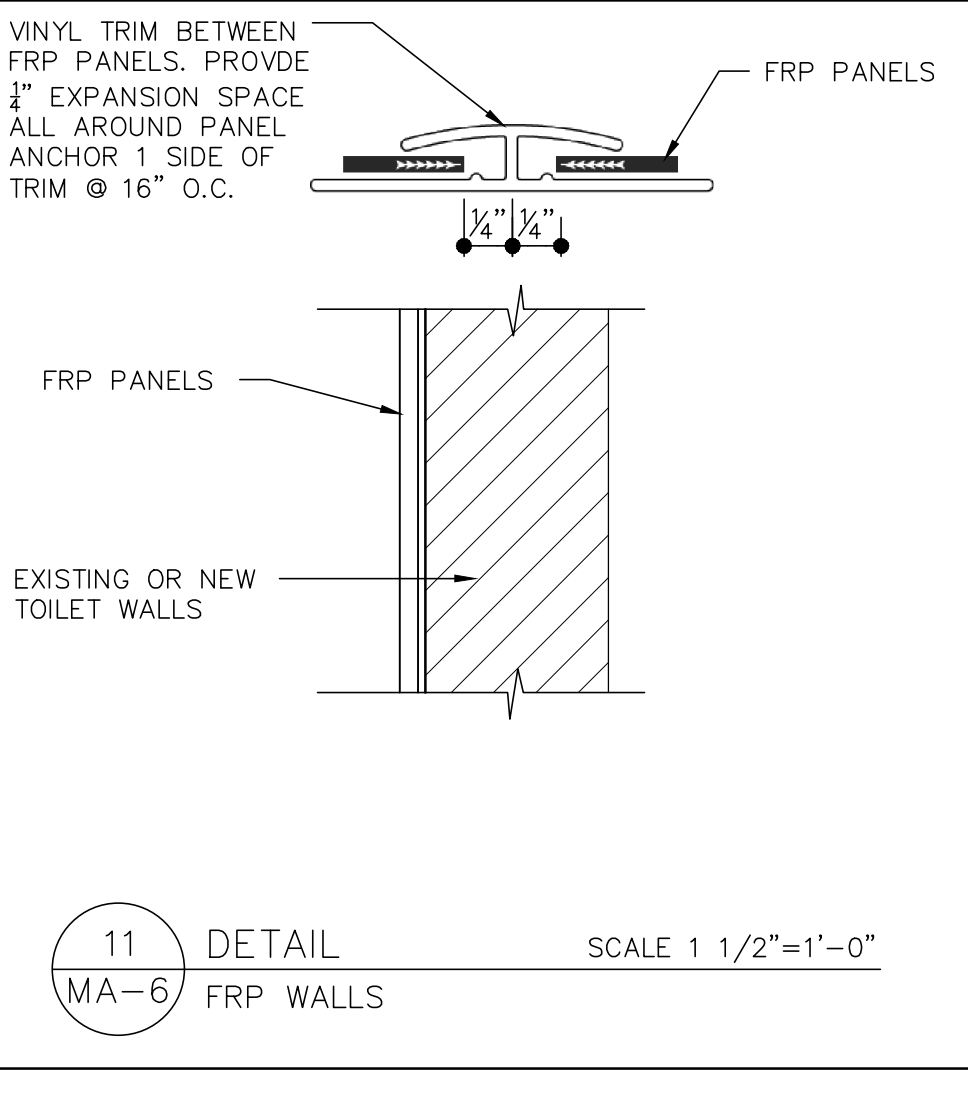
8 DETAIL SCALE 3"=1'-0" MA-6 4 1/4" METAL STUD CHASE WALL NOTE: NO FIRE RATING REQUIRED.



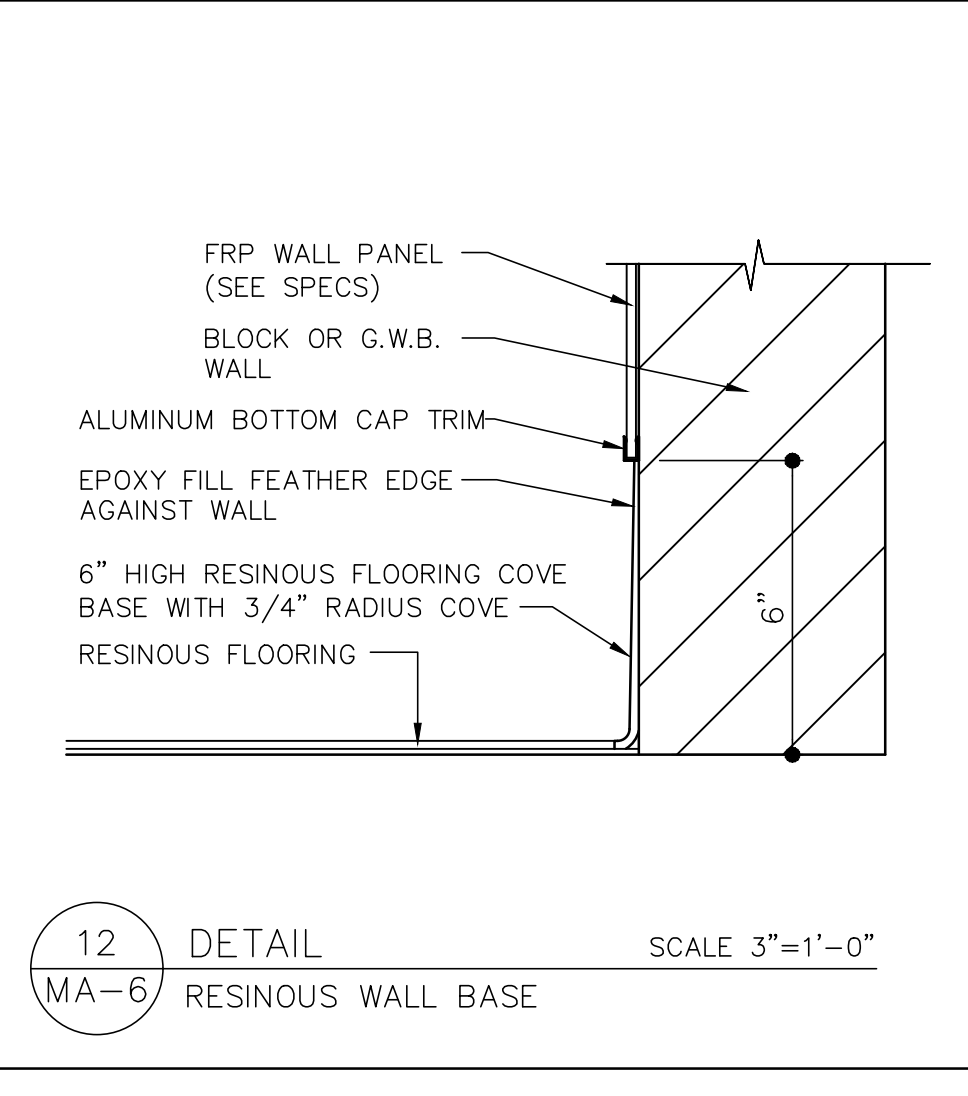
9 DETAIL SCALE 6"=1'-0" MA-6 FLOOR DRAIN



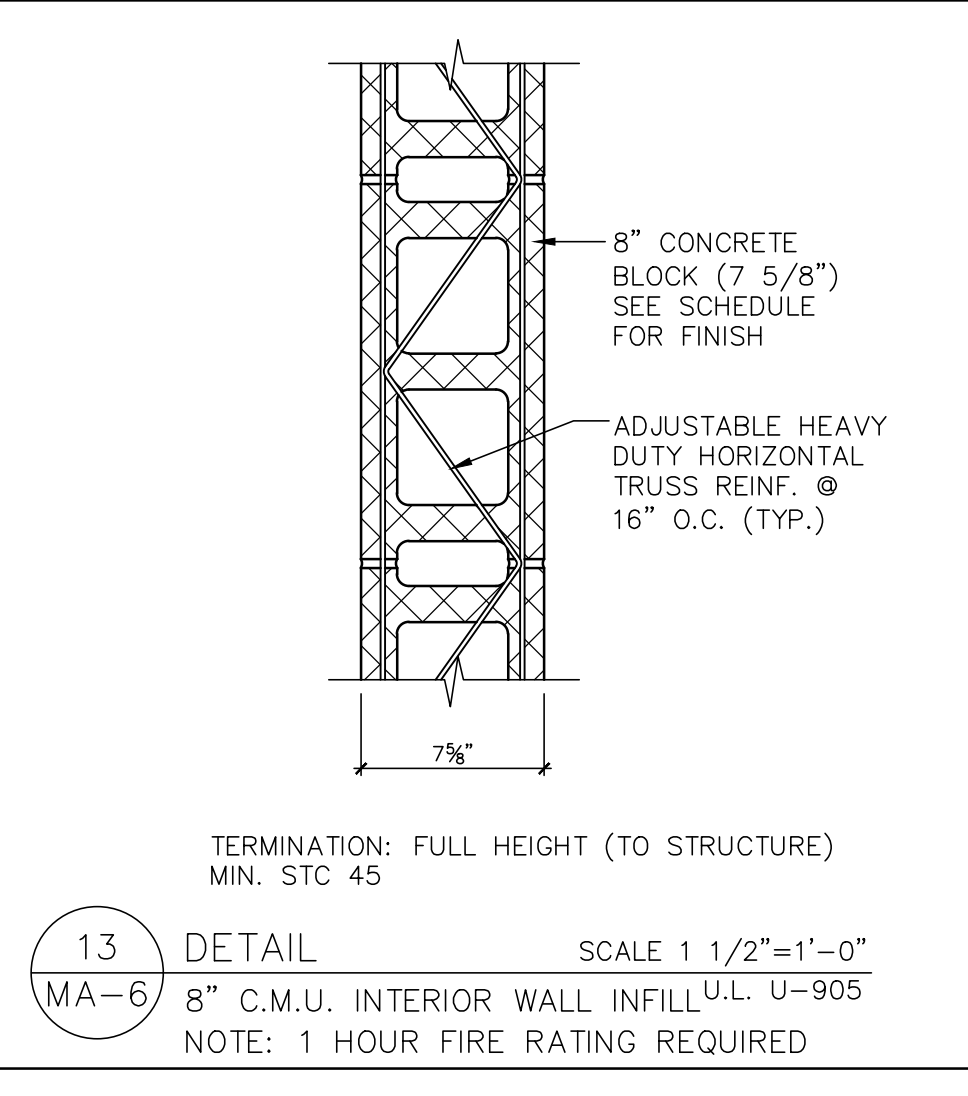
10 DETAIL SCALE 1 1/2"=1'-0" MA-6 4" C.M.U. INTERIOR WALL NOTE: NO FIRE RATING REQUIRED



11 DETAIL SCALE 1 1/2"=1'-0" MA-6 FRP WALLS



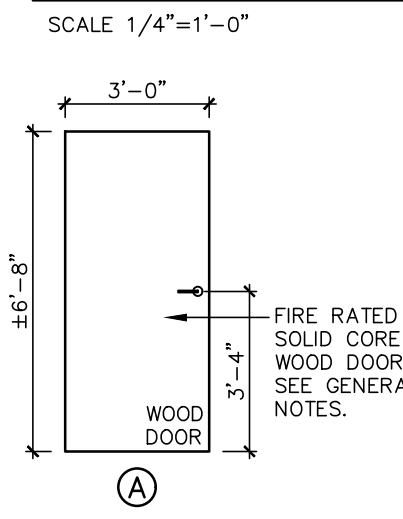
12 DETAIL SCALE 3"=1'-0" MA-6 RESINOUS WALL BASE



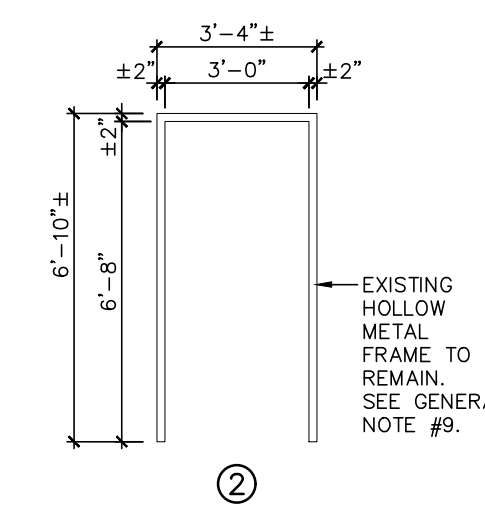
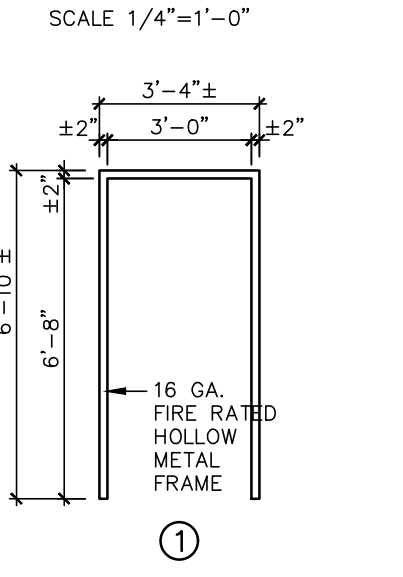
13 DETAIL SCALE 1 1/2"=1'-0" MA-6 8" C.M.U. INTERIOR WALL INFILL U-905 NOTE: 1 HOUR FIRE RATING REQUIRED

DOOR AND FRAME SCHEDULE																								
DR. NO.	FROM ROOM NO.	TO ROOM NO.	ROOM NAME	DOOR						FRAME						REMARKS								
				SIZE		MATERIAL	GAGE	TYPE	GLASS		HARDWARE SET NO.	FRAME		DETAILS			FIRE RATING (LABEL)	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)	NEW HOLLOW METAL FRAME (SEE GENERAL NOTE #2)	NEW HOLLOW METAL FRAME TO REMAIN (SEE GENERAL NOTE #3)	EXISTING HOLLOW METAL FRAME TO REMAIN (SEE GENERAL NOTE #4)			
WIDTH	HEIGHT	TYPE	THICKNESS	SIZE	THRESHOLD				MATERIAL	GAGE		DEPTH	TYPE	HEAD	JAMB	SILL								
FIRST FLOOR																								
BT-01	BT-01	CORR.	BOYS	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	16	2 3/4"	1	1	2	3	20	✓	✓	✓	✓
GT-01	GT-01	CORR.	GIRLS	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	16	2 3/4"	1	1	2	3	20	✓	✓	✓	✓
UT-01	UT-01	CORR.	UNISEX TOILET	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	16	8 3/4"	1	4	5	6	20	✓	✓	✓	✓
C-01	C-01	UT-01	CUSTODIAN	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	-	±7"	2	7	8	9	20	✓	✓	✓	✓
SECOND FLOOR																								
UT-02	CORR.	UT-02	UNISEX TOILET	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	-	±9"	2	7	8	9	20	✓	✓	✓	✓
C-02	UT-2	C-02	CUSTODIAN	3'-0"	6'-8"	WD	-	A	-	-	MARBLE	-	HM	-	±7"	2	7	8	9	20	✓	✓	✓	✓

DOOR TYPES:



FRAME TYPES:



- GENERAL NOTES:**
1. ALL NEW WOOD DOORS SHALL BE SOLID CORE WOOD, FINISH TO BE SELECTED BY ARCHITECT.
 2. ALL NEW HOLLOW METAL FRAMES SHALL BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT.
 3. ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH UCC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1-2009.
 4. ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (+/-) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
 5. PROVIDE A FLUSH FILLED FINISH AT ALL DOOR FRAMES THAT REQUIRE MASONRY ANCHORS WITH DIMPLES, TYP.
 6. MODIFY OR REFURBISH ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION.
 7. CUT VISION PANEL OPENING INTO NEW DOORS & INSTALL FIRE RATED METAL GLAZING TRIM & FIRE RATED SAFETY GLAZING OR TEMPERED GLASS. TYPICAL FOR ALL DOORS W/ VISION PANEL. SEE DETAIL 10/MA-7.
 8. ALL GLAZING OPENINGS ON WOOD DOORS SHALL BE MIN. 5" TO ANY HARDWARE.
 9. ALL EXISTING HOLLOW METAL FRAMES THAT ARE TO REMAIN SHALL BE PATCHED (ALL HOLES, STRIKE PLATES & HINGES TO BE FILLED WITH SELF TAPPING STEEL SCREW & GROUND SMOOTH OR WELDED STEEL PLATE) & REPAINTED IN THEIR ENTIRETY, COLOR TO BE SELECTED BY ARCHITECT. CONTRACTOR MUST PROVIDE A FIRE RATING LABEL FOR ALL EXISTING HOLLOW METAL FRAMES THAT REQUIRE A LABEL. CONTACT MIKE THORP AT GUARDIAN FIRE TESTING LABORATORIES (716-628-0538 DIRECT LINE OR 716-835-6880 MAIN OFFICE) OR APPROVED EQUAL. (SEE SCHEDULE FOR RATING) IF THE FRAME DOES NOT MEET THE REQUIRED FIRE RATING THAN IT MUST BE REPLACED.

ALL NEW INTERIOR DOORS SHOWN ON THE DOOR SCHEDULE SHALL RECEIVE NEW SIGNAGE

1 DETAIL
MA-7 DOOR HEAD SCALE: 1 1/2"=1'-0"

2 DETAIL
MA-7 DOOR JAMB SCALE: 1 1/2"=1'-0"

3 DETAIL
MA-7 DOOR SILL SCALE: 1 1/2"=1'-0"

4 DETAIL
MA-7 DOOR HEAD SCALE: 1 1/2"=1'-0"

5 DETAIL
MA-7 DOOR JAMB SCALE: 1 1/2"=1'-0"

6 DETAIL
MA-7 DOOR SILL SCALE: 1 1/2"=1'-0"

7 DETAIL
MA-7 DOOR HEAD SCALE: 3/4"=1'-0"

8 DETAIL
MA-7 DOOR JAMB SCALE: 1 1/2"=1'-0"

9 DETAIL
MA-7 DOOR SILL SCALE: 1 1/2"=1'-0"

10 DETAIL
MA-7 DOOR VISION PANEL DETAIL FOR ALL INTERIOR DOORS. SCALE: NONE

2019 Toilet Room Renovations at the Richard M. Teitelman Middle School
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204
Lower Cape May Regional School District
 CAPE MAY, NEW JERSEY 08204

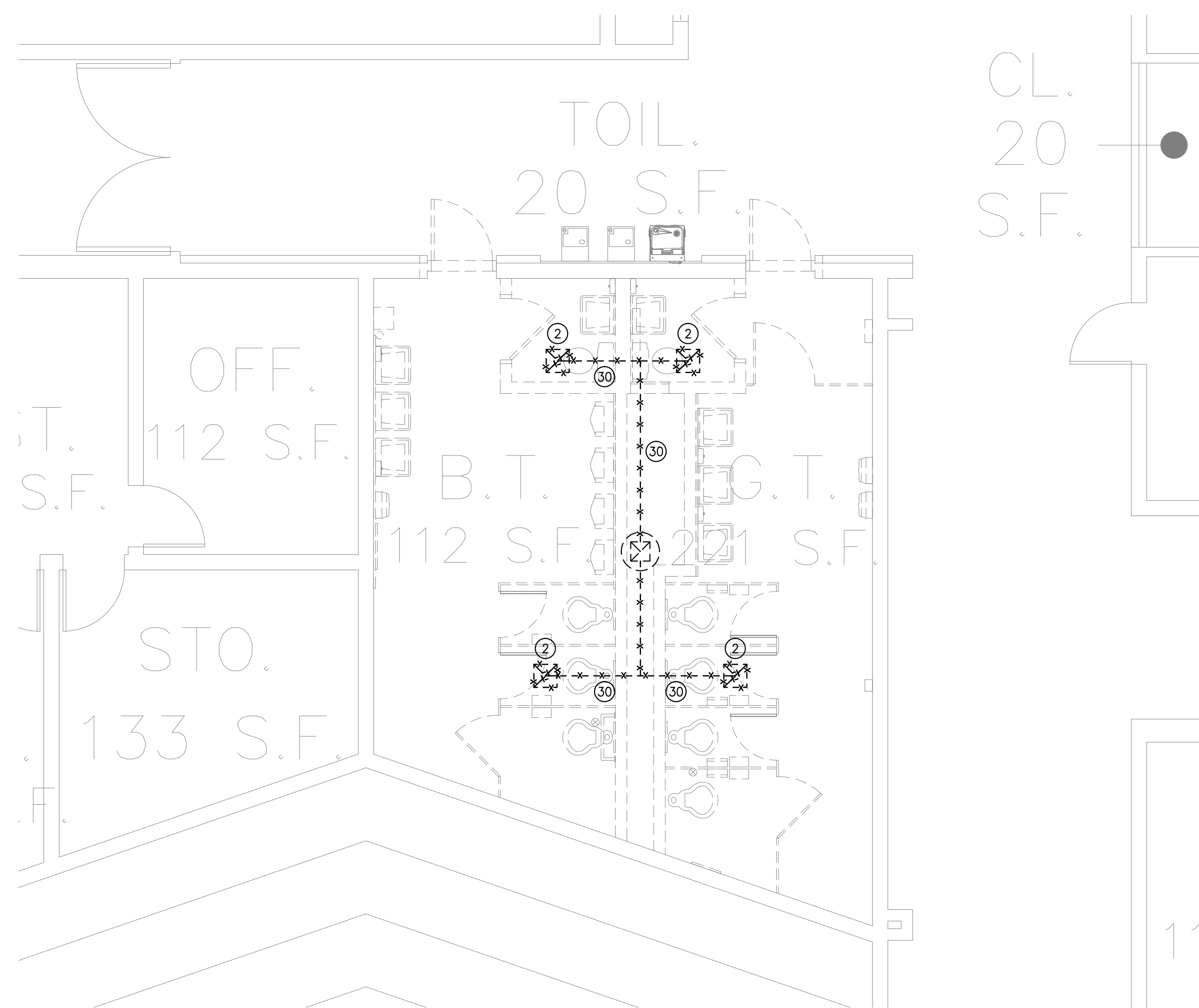
REVISIONS

a.	e.
b.	f.
c.	g.

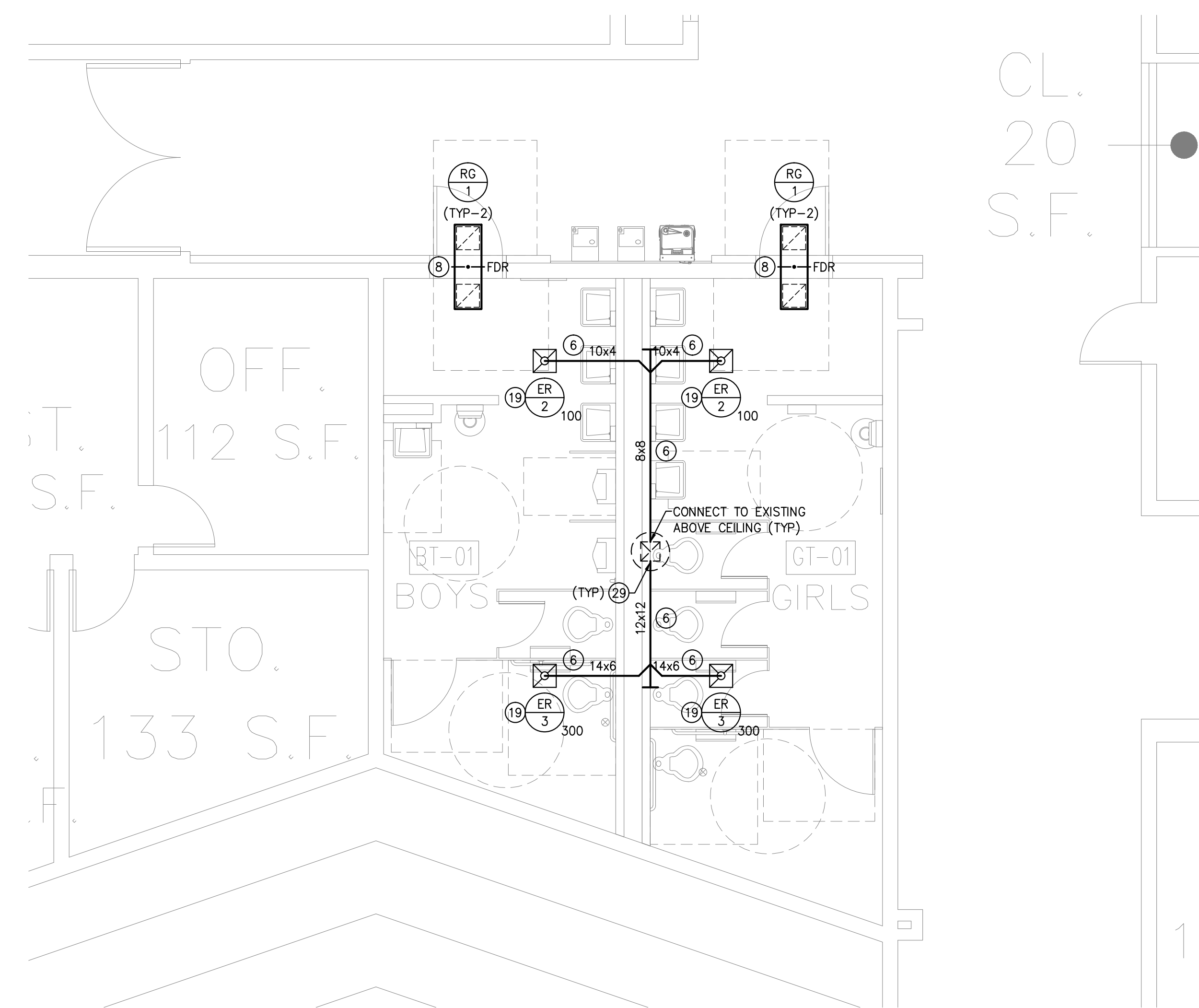
Project No: 94 M.S.
 Date: 01-29-19
 Scale: AS NOTED

DOOR & FRAME SCHEDULE, TYPE & DETAILS
MA-7

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1
MM-2 MECHANICAL DEMOLITION ENLARGED TOILET ROOM PLAN
 SCALE: 1/4" = 1'-0"

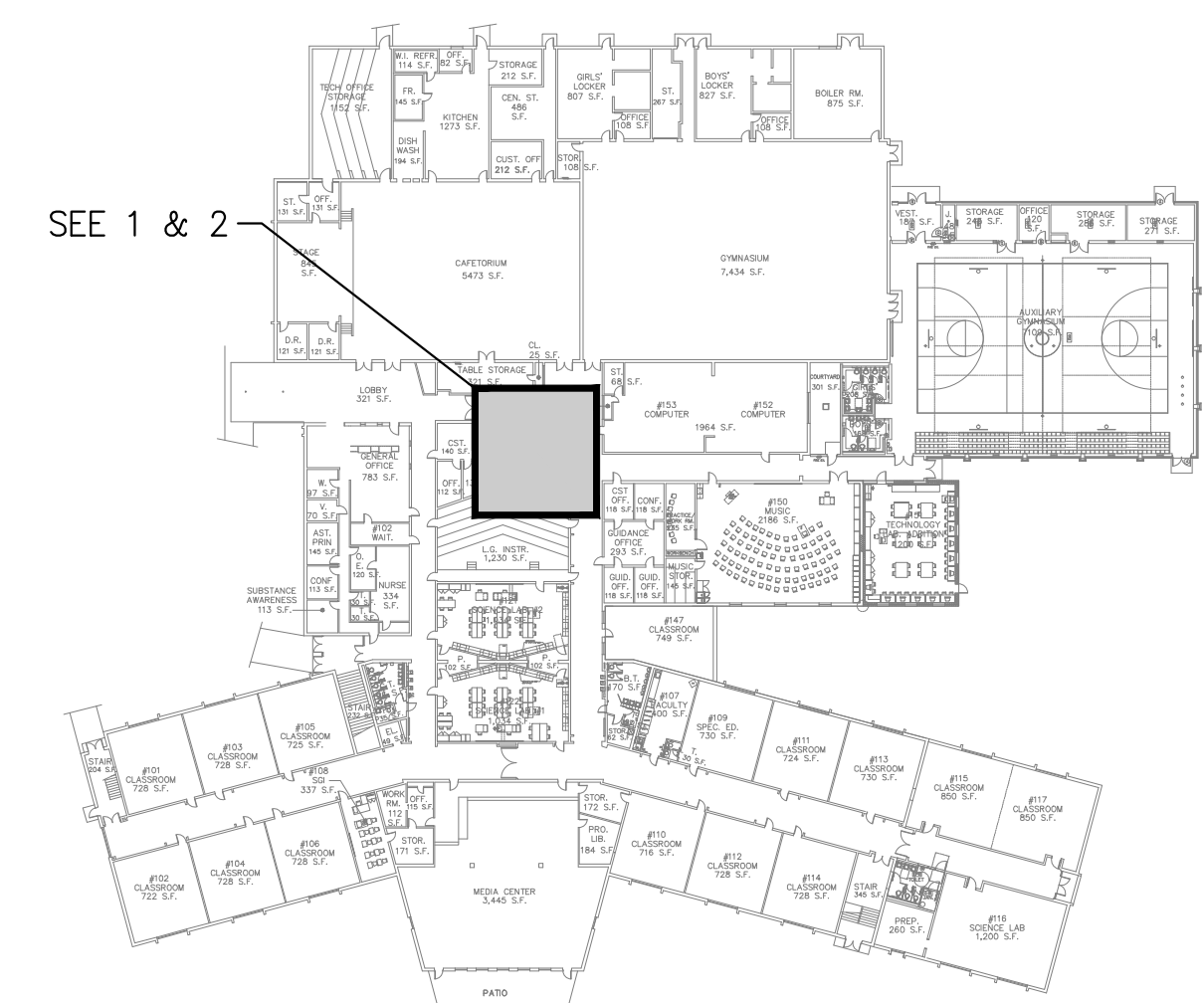


2
MM-2 MECHANICAL NEW WORK ENLARGED TOILET ROOM PLAN
 SCALE: 1/4" = 1'-0"

MULHEARN
 and ASSOCIATES, Incorporated
 321 South York Road
 Hatboro, Pennsylvania 19040
 Phone: (215) 293-9900
 Fax: (215) 293-9214

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 FOR ALL NOTES REFER TO NOTES ON MM-3

PRIOR TO BIDDING, MECHANICAL CONTRACTOR
 TO VISIT SITE PER SPECIFICATION 15010
 ALL WORK NEW U.N.O.
 ALL WORK BASE BID U.N.O.



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**2019 Toilet Room Renovations at the
 Richard M. Teitelman Middle School
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204**
**FOR THE
 Lower Cape May Regional School District
 687 ROUTE 9
 CAPE MAY, NEW JERSEY 08204**

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b.	f.
c.	g.

Project No: 94 M.S.
 Date: 01-29-19
 Scale: AS NOTED

**MECHANICAL
 ENLARGED
 TOILET PLANS**

MM-1

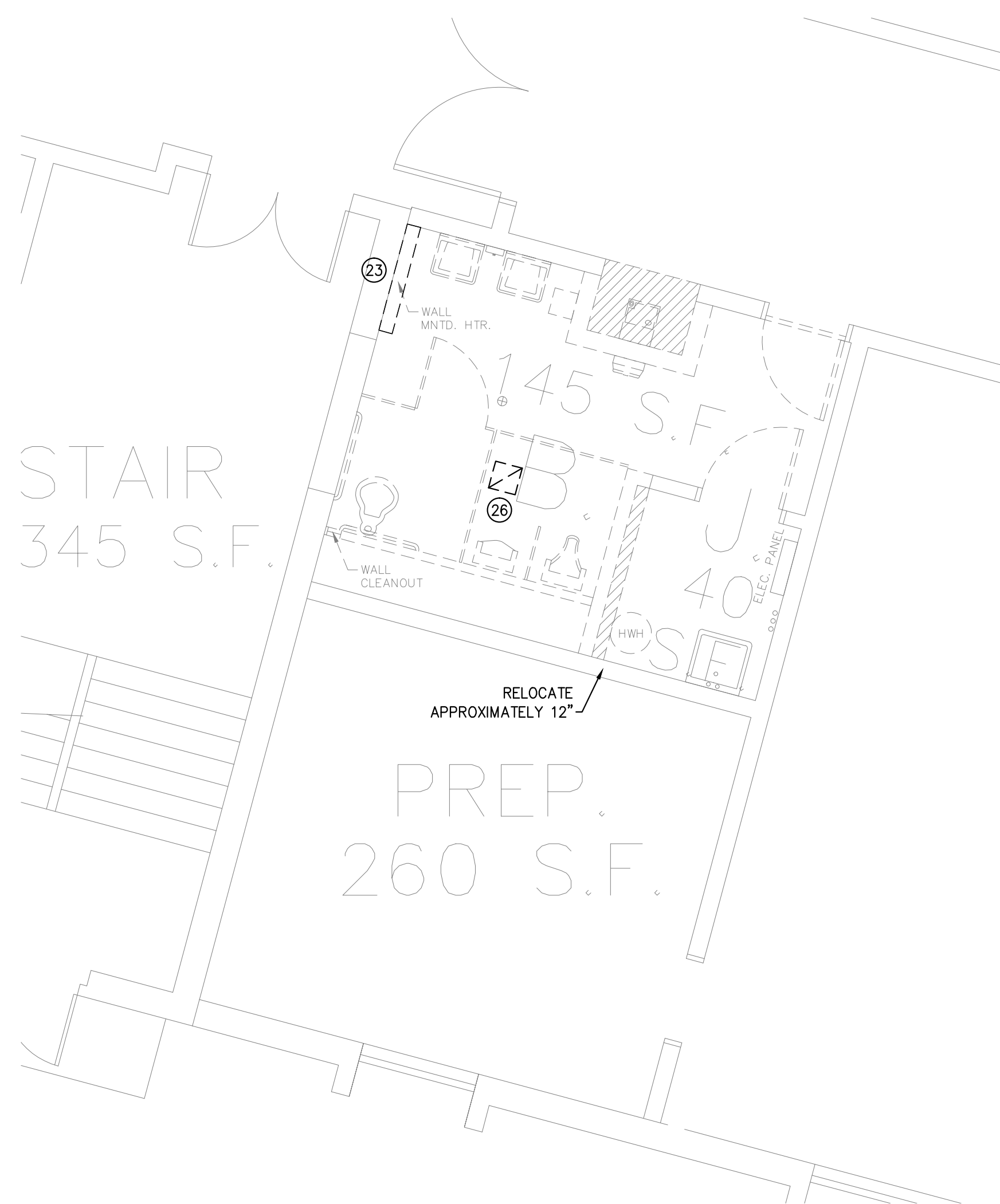
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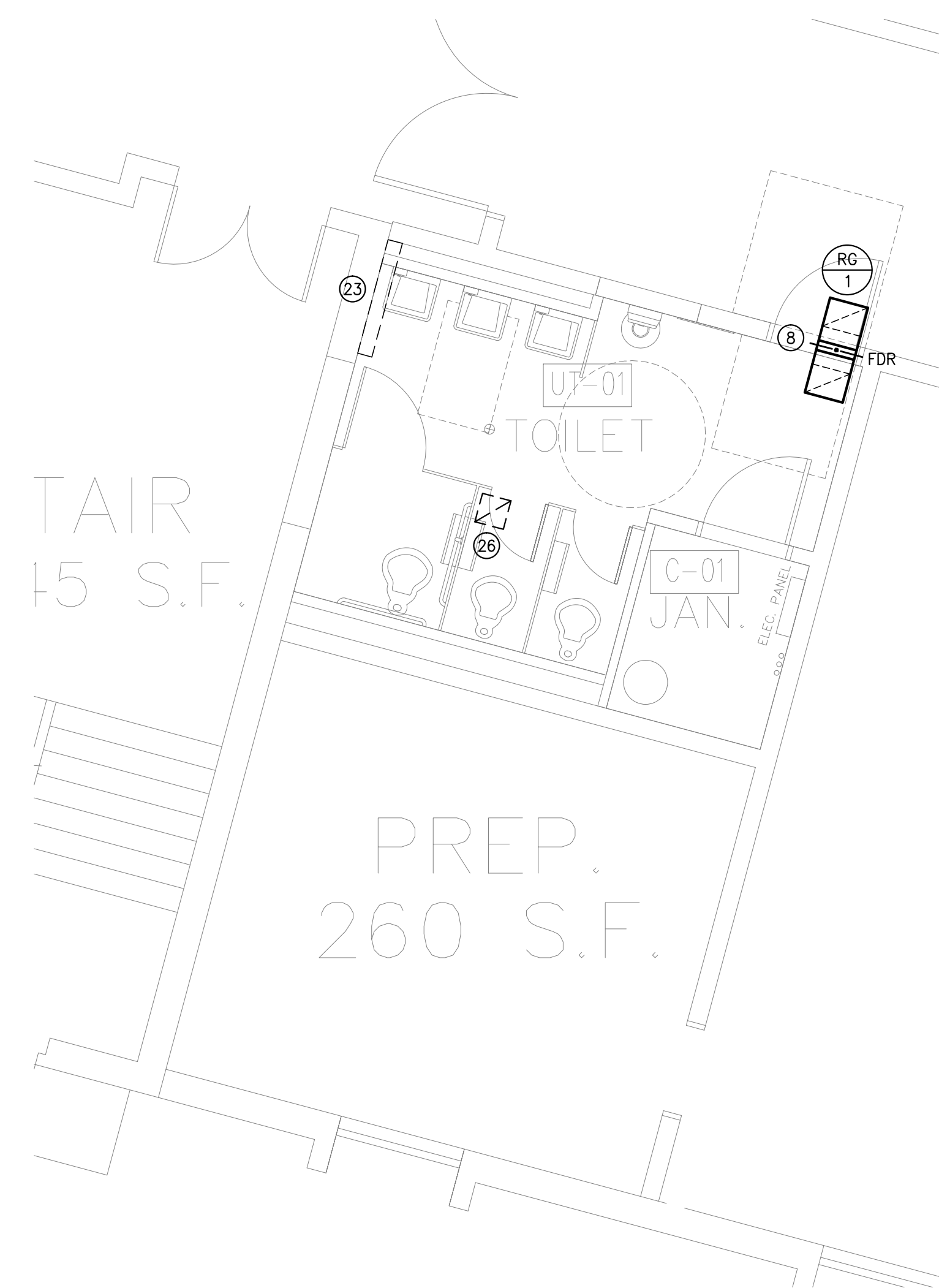
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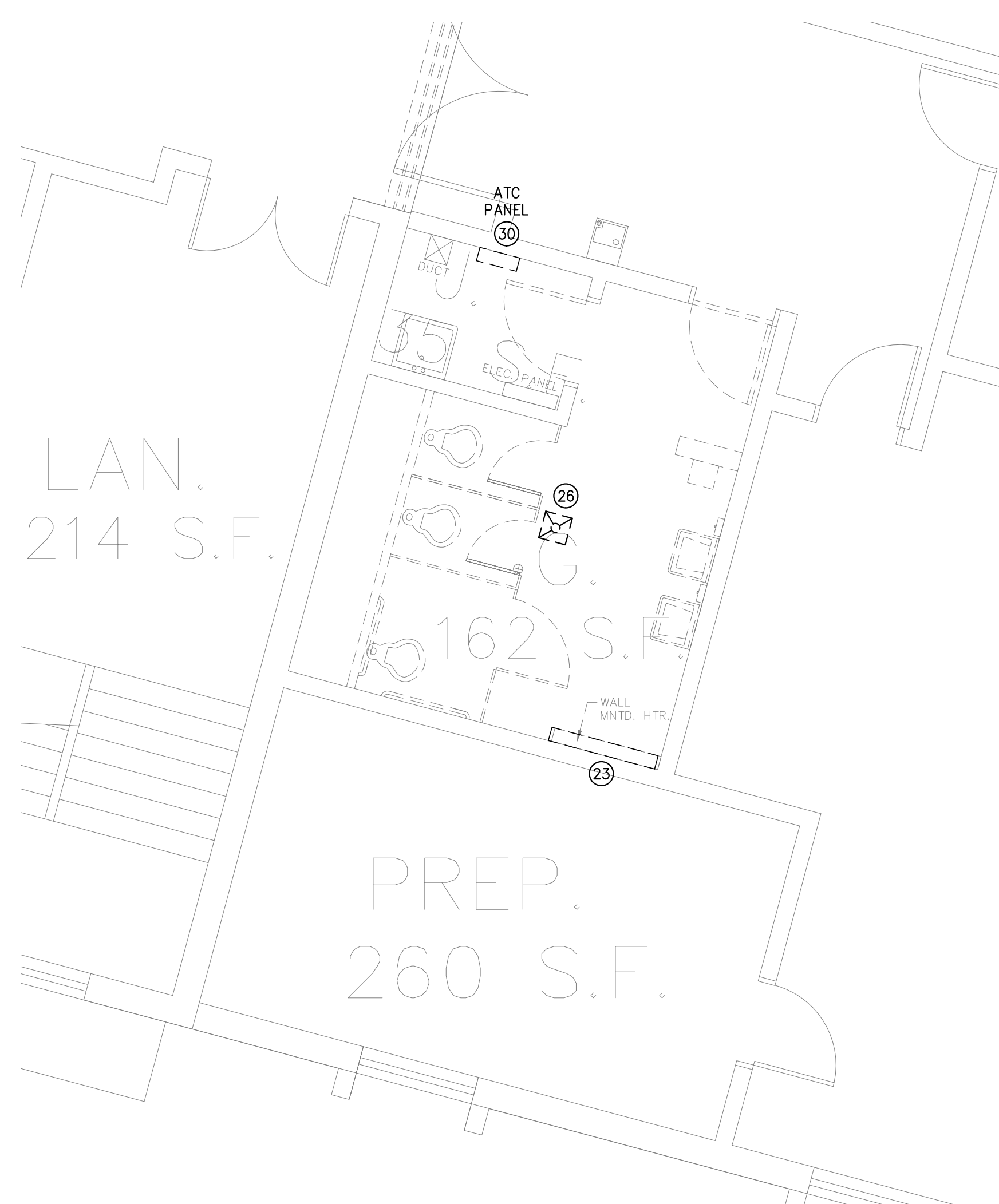
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 ALL WORK BASE BID U.N.O.



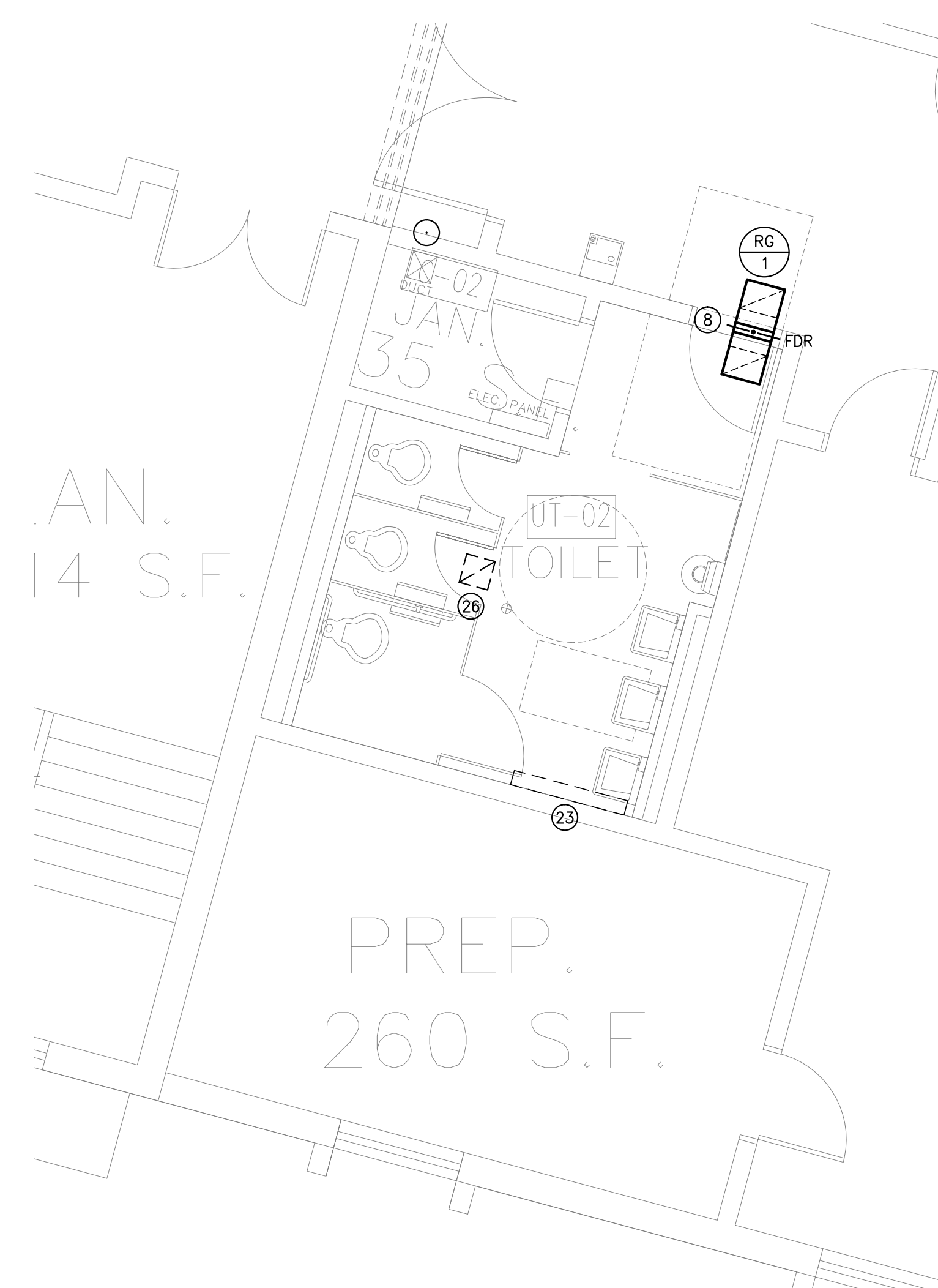
1 MECHANICAL DEMOLITION ENLARGED TOILET ROOM PLAN
 MM-2 SCALE: 1/4" = 1'-0"



2 MECHANICAL NEW WORK ENLARGED TOILET ROOM PLAN
 MM-2 SCALE: 1/4" = 1'-0"



3 MECHANICAL DEMOLITION ENLARGED TOILET ROOM PLAN
 MM-2 SCALE: 1/4" = 1'-0"



4 MECHANICAL NEW WORK ENLARGED TOILET ROOM PLAN
 MM-2 SCALE: 1/4" = 1'-0"



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 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204**
**FOR THE
 Lower Cape May Regional School District
 687 ROUTE 9
 CAPE MAY, NEW JERSEY 08204**

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b.	f.
c.	g.

Project No: 94 M.S.
 Date: 01-29-19
 Scale: AS NOTED

**MECHANICAL
 ENLARGED
 TOILET PLANS**

MM-2

ISSUED FOR BID: 01-29-19

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ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.

PERIMETER RADIATION SCHEDULE							SYMBOL	R
NO.	TYPE	TUBES HIGH	TUBE SIZE	FINS/FOOT	FIN SIZE	HT. (MIN)	HEATING CAPACITY @200 AVG. TEMP. BTU/LF	REMARKS
1	COPPER TUBE ALUM. FIN.	1	4"xSQ	50	4"xSQ	11"	1180	JVB-S TYPE C 143 5 ELEMENT
2	COPPER TUBE ALUM. FIN.	1	1 1/4"	50	4"x3/8"	20"	1320	JVB-S TYPE C 143 5 ELEMENT
3	COPPER TUBE ALUM. FIN.	1	1 1/4"	50	4"x3/8"	19 1/2"	1385	STERLING JVB-55 DOUBLE SLOPE

NOTES:
ENCLOSURES SHALL BE CONTINUOUS WALL TO WALL WITHEND CAPS DAMPERS, SPLICE PLATES & COLUMN ENCLOSURES.
XX INDICATES ACTIVE LENGTH OF ELEMENT
INDICATES RADIATION TYPE
R INDICATES RETURN IN ENCLOSURE

MECHANICAL NOTES

- EXISTING WALL FAN TO BE REMOVED. REMOVE ALL APPURTENANCES. PROVIDE NEW WALL PANEL.
- EXISTING EXHAUST GRILLE IN WALL TO BE REMOVED.
- EXISTING EXHAUST DUCT TO BE REMOVED. EXISTING EXHAUST FAN ON ROOF CURB TO REMAIN AND PROVIDE NEW FAN. VERIFY EXACT LOCATION IN FIELD.
- EXISTING RADIATION TO BE REMOVED. REMOVE ALL PIPE AND APPURTENANCES.
- EXISTING ACCESS DOOR TO BE REMOVED.
- NEW EXHAUST DUCT.
- NEW EXHAUST REGISTERS.
- PROVIDE NEW TRANSFER DUCT 16"x8" (BLOCK SIZE) WITH 2 RG-1; ONE IN WALL, ONE IN NEW CEILING. PROVIDE FIRE DAMPER AT WALL. WHERE SPACE IN CEILING IS NOT AVAILABLE IN CORRIDOR CEILING, PROVIDE 16"x8" GRILLE ON CORRIDOR SIDE.
- PROVIDE NEW FINNED TUBE RADIATION.
- PROVIDE NEW CONTROL VALVE.
- PROVIDE NEW THERMOSTAT WITH SHEET METAL GUARD.
- DUCT RISE UP. OFFSET DUCT THRU WALL ABOVE CEILING TO NEW GRILLE.
- 16"x12" EXHAUST DUCT UP TO 16"x16" NEW ROOF OPENING FOR NEW FAN. BLANK OFF PORTION OF OPENING NOT USED.
- EXISTING RADIATION 20" HIGH, ENCLOSURE 12" AFF WITH PIPE FEED FROM CRAWL SPACE. PIPE AND RADIATION TO BE REMOVED.
- NEW RADIATION CONNECT NEW PIPE TO EXISTING PIPE AT FLOOR. ENCLOSE NEW PIPE IN SHEET METAL ENCLOSURE.
- PIPE DOWN TO CRAWL SPACE. VERIFY LOCATION SIZE AND DUTY (SUPPLY/RETURN).
- NEW CONTROL VALVE IN ENCLOSURE. INCREASE ENCLOSURE SIZE. FOR VALVE INSTALLATION, PROVIDE ACCESS PANEL.
- EXISTING GRILLE TO BE REMOVED AND REPLACED WITH NEW GRILLE. VERIFY LOCATION AND SIZE IN FIELD.
- EXISTING DUCT TO REMAIN. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- EXISTING FAN TO BE REMOVED AND REPLACED WITH NEW FAN. VERIFY EXACT LOCATION, SIZE, CONDITION AND ROOF CURB DIMENSIONS. PROVIDE CURB ADAPTER.
- EXISTING TO REMAIN, ITEM AS INDICATED. VERIFY IN FIELD, PROTECT DURING CONSTRUCTION.
- TEMPORARILY REMOVE EXISTING RADIATION ON WALL AT CEILING. CAP IPE. REINSTALL AFTER NEW WALL AND CHASE CONSTRUCTION. ADJUST PIPE LOCATION AND CONNECT TO EXISTING PIPE.
- OFFSET LINE INTO BLOCK WALL AT TOILET PARTITION FINISHED WALL.
- EXISTING PERIMETER RADIATION TO BE REMOVED. RADIATION 37" AFF AND 20" HIGH ENCLOSURE, REMOVE ALL PIPE.
- REMOVE EXISTING EXHAUST REGISTER AND INSTALL IN NEW CEILING AND CONNECT TO NEW DUCT AFTER NEW CEILING WORK IS DONE.
- PROVIDE NEW 24"x8" TRANSFER DUCT THRU EXISTING WALL WITH NEW LINTEL, 2 - RG-2 AND FIRE DAMPER. NOTE - WHERE SPACE IS NOT AVAILABLE IN CORRIDOR CEILING, PROVIDE RG-3 24"x8" ON CORRIDOR WALL.
- LOCATE RADIATION BELOW GLASS. (GLASS AT APPROXIMATELY 6" AFF). COORDINATE EXACT HEIGHT IN FIELD (WITH TOILET ACCESSORIES).
- CONNECT NEW DUCT TO EXISTING DUCT. VERIFY SIZE AND LOCATION IN FIELD.
- EXISTING DUCT TO BE REMOVED.
- EXISTING HOT WATER PIPE TO REMAIN.
- CONNECT NEW HOT WATER PIPE TO EXISTING PIPE. VERIFY EXACT LOCATION IN FIELD. CONTRACTOR SHALL VERIFY SHUTOFF VALVE AND LOCATION IN FIELD.
- NEW RADIATION AT CEILING. ALL PIPE CONCEALED IN RADIATION ENCLOSURE.
- RADIATION ENCLOSURE TO BE INTERRUPTED AT TOILET ENCLOSURE. OFFSET PIPE ABOVE CEILING.
- NEW BALANCING VALVE.
- BYPASS LINE ABOVE CEILING.
- NEW 14"x6" DUCT UP FROM FIRST FLOOR WITH FIRE DAMPER AT FLOOR.
- NEW DUCT OFFSET AT CEILING. NOTE EXPOSED DUCT PAINT COLOR SELECTED.
- NEW DUCT UP THRU EXISTING ROOF TO NEW FAN ON ROOF. DUCT FULL SIZE OF FAN OPENING.
- NEW 16"x8" TRANSFER DUCT THRU EXISTING WALL WITH FIRE DAMPER. NOTE - REMOVE ONE BLOCK. PROVIDE 2 RG-1 IN CEILINGS.
- NEW EXHAUST REGISTER IN CEILING CONNECT TO EXISTING DUCT.
- REMOVE EXISTING DUCT. PATCH EXISTING DUCT TO REMAIN. VERIFY ALL CONDITIONS IN FIELD.

MECHANICAL LEGEND			
A/L	ACOUSTICALLY LINED	C	CONDENSATE PIPE
AP	ACCESS PANEL	HWS	HOT WATER HEATING SUPPLY (SYSTEM)
ACD	ACCESS DOOR	HWR	HOT WATER HEATING RETURN (SYSTEM)
ADR	AUTOMATIC DAMPER	CHWR	CHILLED WATER RETURN (SYSTEM)
BDD	BACK DRAFT DAMPER	CHWS	CHILLED WATER SUPPLY (SYSTEM)
BTJ	BETWEEN THE JOISTS	CWR	CONDENSER WATER RETURN
CS	CHILLED WATER SUPPLY	CWS	CONDENSER WATER SUPPLY
CR	CHILLED WATER RETURN	R	REFRIGERANT PIPE
CD	CEILING DIFFUSER	GV	GATE VALVE
CU	CONDENSING UNIT	CV	CHECK VALVE
DBR	DOWN BLOW REGISTER	RV	RELIEF VALVE
DL	DOOR LOUVER	CV3	CONTROL VALVE
DN	DOWN	CV4	AUTOMATIC THREE-WAY VALVE
DX	DIRECT EXPANSION COIL	GV2	GLOBE VALVE
(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
EF	EXHAUST FAN	AV2	AUTOMATIC TWO-WAY VALVE
EG	EXHAUST GRILLE	EB	PLUG OR BALL VALVE
ER	EXHAUST REGISTER	BV	BALANCING VALVE
FDR	FIRE DAMPER	ST	STRAINER
FVAV	FAN POWERED VAV UNIT	UN	UNION
GV	GATE VALVE	HT	HEATING THERMOSTAT
HR	HOT WATER HEATING RETURN	HC	HEATING & COOLING THERMOSTAT
HS	HOT WATER HEATING SUPPLY	CC	COOLING THERMOSTAT
LAD	LOUVER/AUTO DAMPER	TM	THERMOMETER
LBD	LOUVER/BACKDRAFT DAMPER	PG	PRESSURE GAUGE W/GAUGE COCK
LID	LINEAR DIFFUSER	AV	AUTOMATIC AIR VENT
LMD	LOUVER/MANUAL DAMPER	FC	FLEXIBLE CONNECTION
LVR	LOUVER	NC	NEW CONNECTION TO EXISTING
MUA	MAKEUP AIR UNIT	PD	POINT OF DEMOLITION
MVD	MANUAL VOLUME DAMPER	DR	DUCT REDUCER
OAI	OUTSIDE AIR INTAKE		
RG	RETURN GRILLE		
RR	RETURN REGISTER		
SG	SUPPLY GRILLE		
SF	SUPPLY FAN		
SR	SUPPLY REGISTER		
SDR/FDR	SMOKE/FIRE DAMPER		
TF	TRANSFER FAN		
TWJ	THROUGH WEB OF JOIST		
TYP	TYPICAL (OF QUANTITY)		
UNO	UNLESS NOTED OTHERWISE		
VAV	VARIABLE AIR VOLUME TERMINAL UNIT		
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT		
WMS	WIRE MESH SCREEN		

SUPPLY/EXHAUST FAN SCHEDULE							SYMBOL	EF	SF
NO.	CFM	S.P.	RPM	H.P.	TYPE	REMARKS			
1	1300	0.50	XX	XX	ROOF MOUNTED CENTRIFUGAL	USE 16"x16" ROOF OPENING COOK MODEL			
2	700	0.50	XX	XX	ROOF MOUNTED CENTRIFUGAL	MOUNT ON EXISTING CURB. PROVIDE CURB ADAPTER.			

AIR DEVICE SCHEDULE									
NO.	CD	LID	SR SG	RR RG	ER EG	LAD LBD	WMS	REMARKS	
1	.	.	.	16x8	6x6	.	.	.	
2	.	.	.	24x12	12x6	.	.	.	
3	.	.	.	24x8	16x8	.	.	.	
4	
5	
6	

CD X - INDICATES NUMBER OF BLOWS
XXXX - INDICATES AMOUNT OF CFM

FLEXIBLE DUCT SIZING SCHEDULE			
SIZE	MAXIMUM CFM		REMARKS
	HIGH PRESSURE	LOW PRESSURE	
6"	160	110	XX
8"	320	240	XX
10"	610	420	XX
12"	1000	700	XX
14"	1500	N/A	XX

FLEX DUCT TO BE PULLED TIGHT AND BANDED, WITH A MAXIMUM OF ONE 90° ELBOW, AND A MAXIMUM OF 10'-0" IN LENGTH

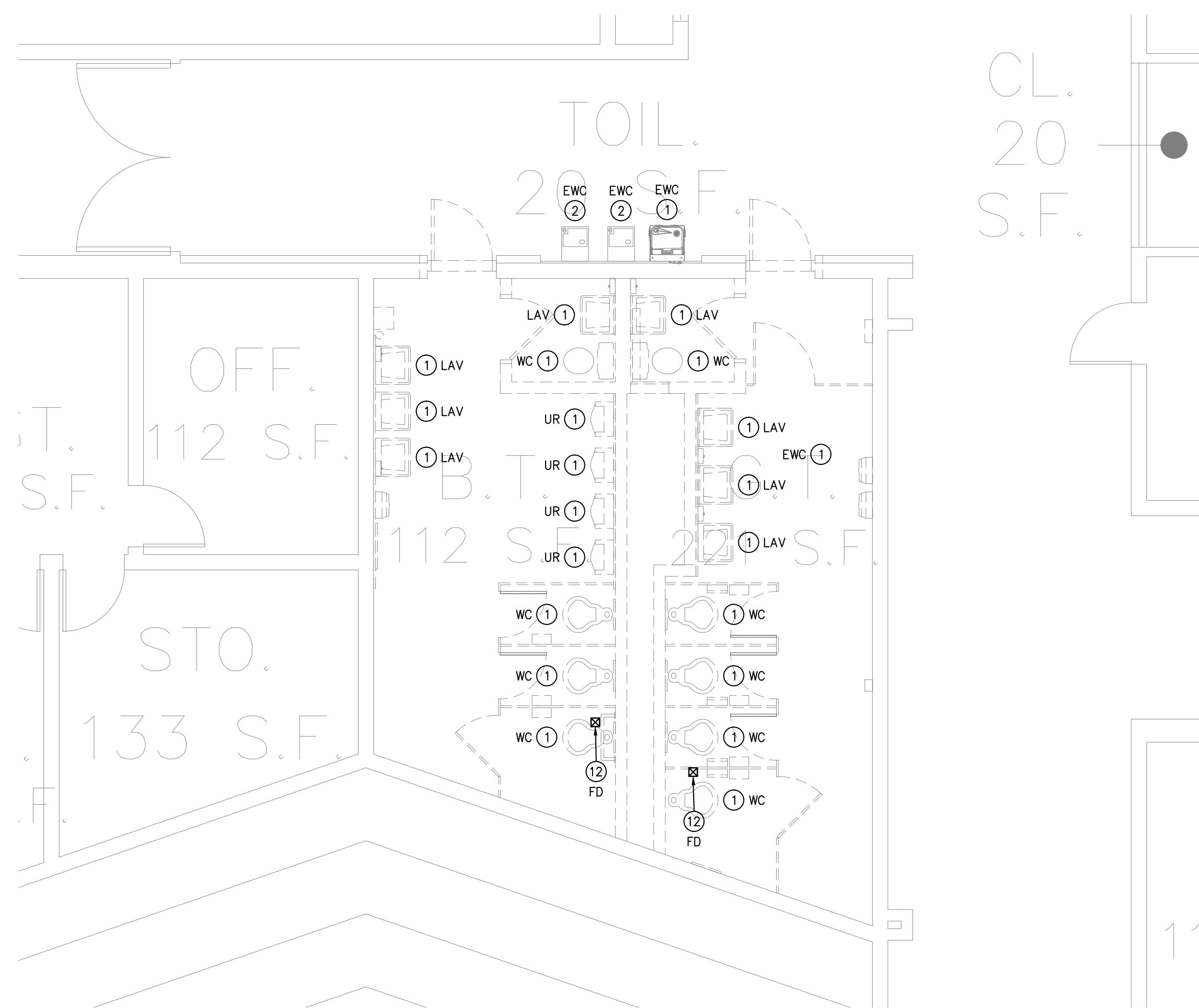
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**2019 Toilet Room Renovations at the
Richard M. Teitelman Middle School
687 ROUTE 9 CAPE MAY, NEW JERSEY 08204**
**FOR THE
Lower Cape May Regional School District
687 ROUTE 9
CAPE MAY, NEW JERSEY 08204**

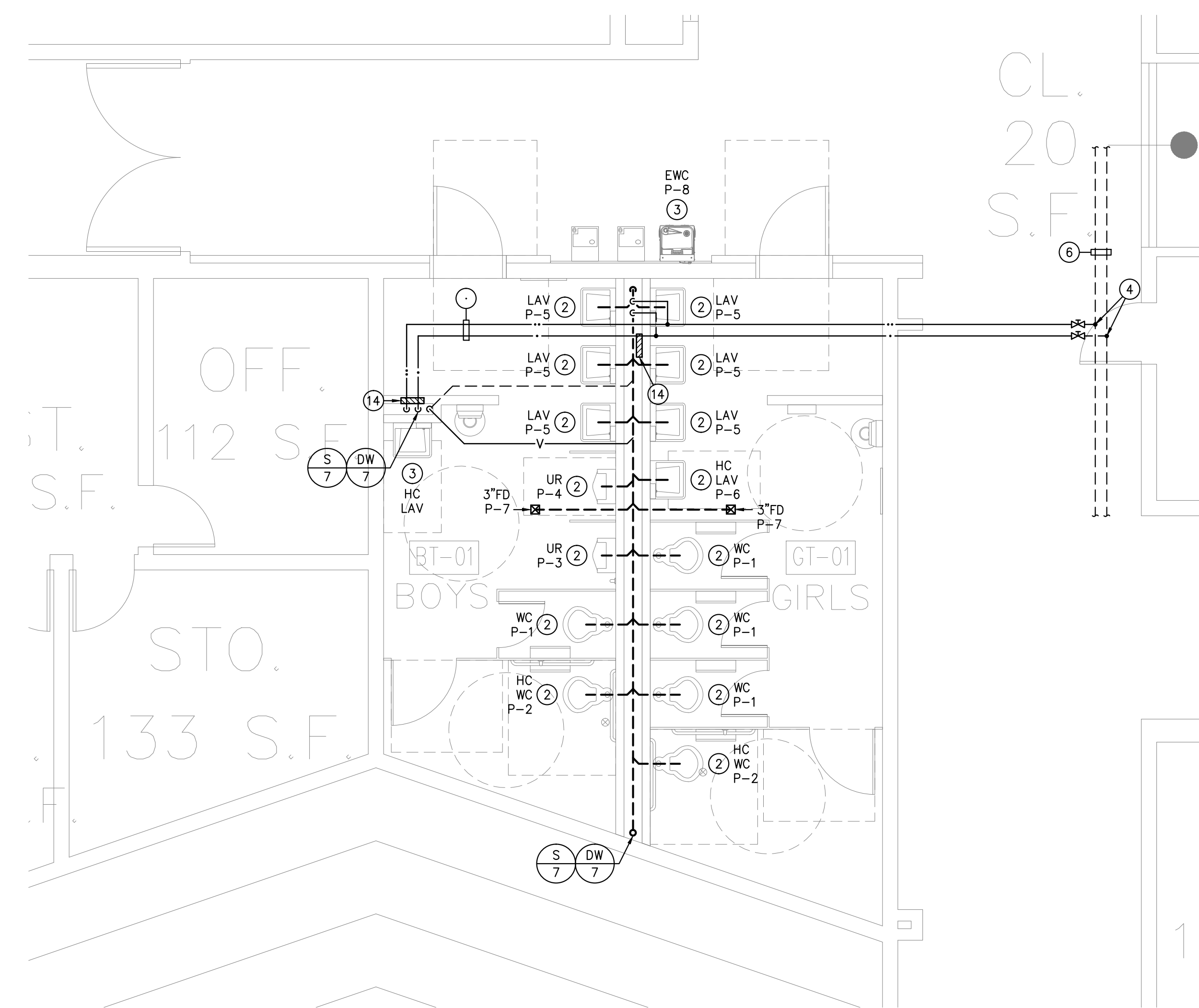
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b.	f.
c.	g.

Project No. 94 M.S.
Date: 01-29-19
Scale: AS NOTED

**MECHANICAL
LEGEND,
SCHEDULES &
NOTES**
MM-3



1 PLUMBING DEMOLITION ENLARGED TOILET ROOM PLAN
 MP-1 SCALE: 1/4" = 1'-0"

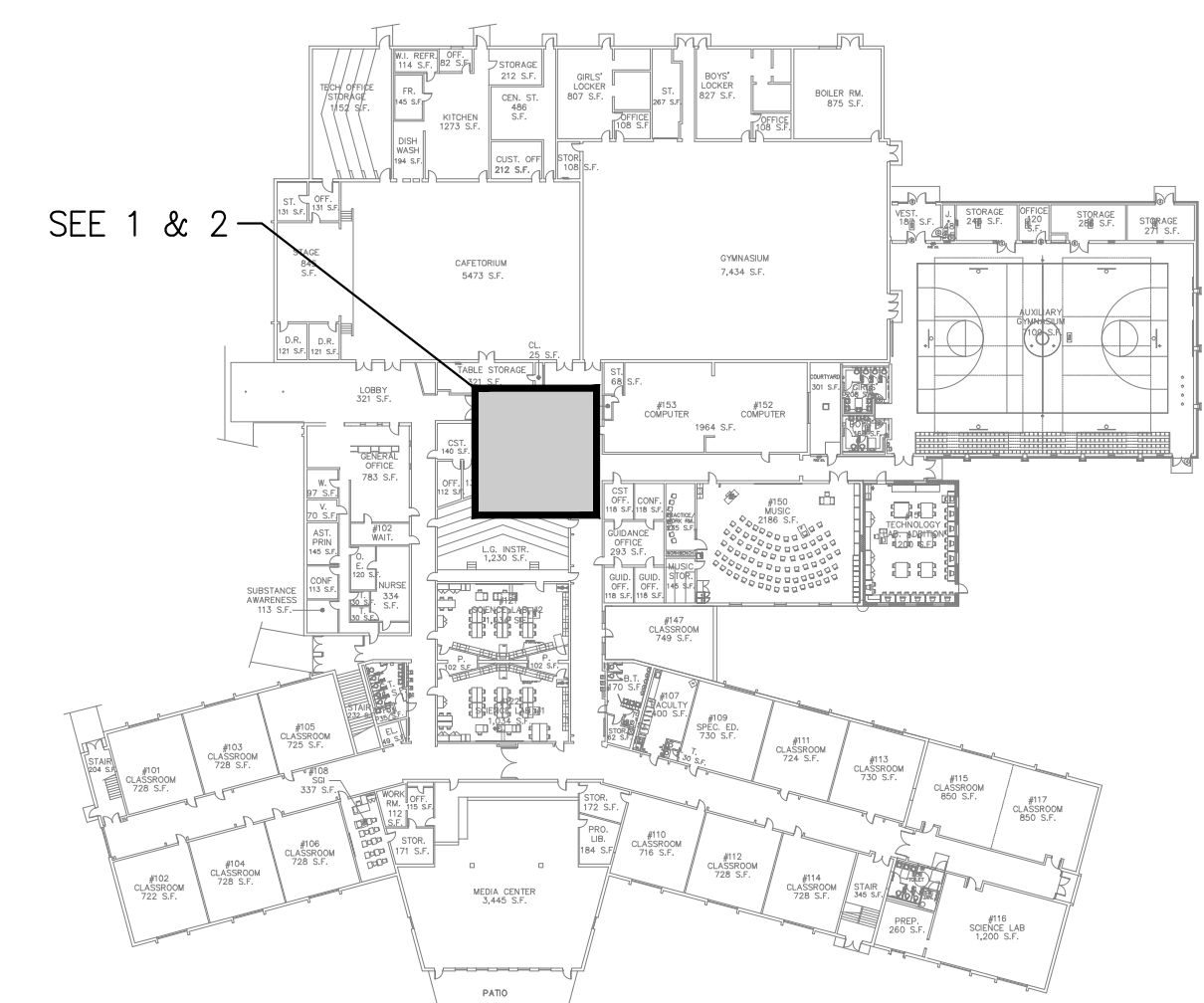


2 PLUMBING NEW WORK ENLARGED TOILET ROOM PLAN
 MP-1 SCALE: 1/4" = 1'-0"

MULHERN
 and ASSOCIATES, Incorporated
 321 South York Road
 Hatboro, Pennsylvania 19040
 Phone: (215) 293-9900
 Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
 FOR ALL NOTES REFER TO NOTES ON MP-3

ALL WORK BY PLUMBING CONTRACTOR U.N.O.
 ALL WORK NEW U.N.O.
 ALL WORK BASE BID U.N.O.
 FOR RISER DIAGRAMS SEE SHEET MP-3



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**PLUMBING
 ENLARGED
 TOILET PLANS**
MP-1

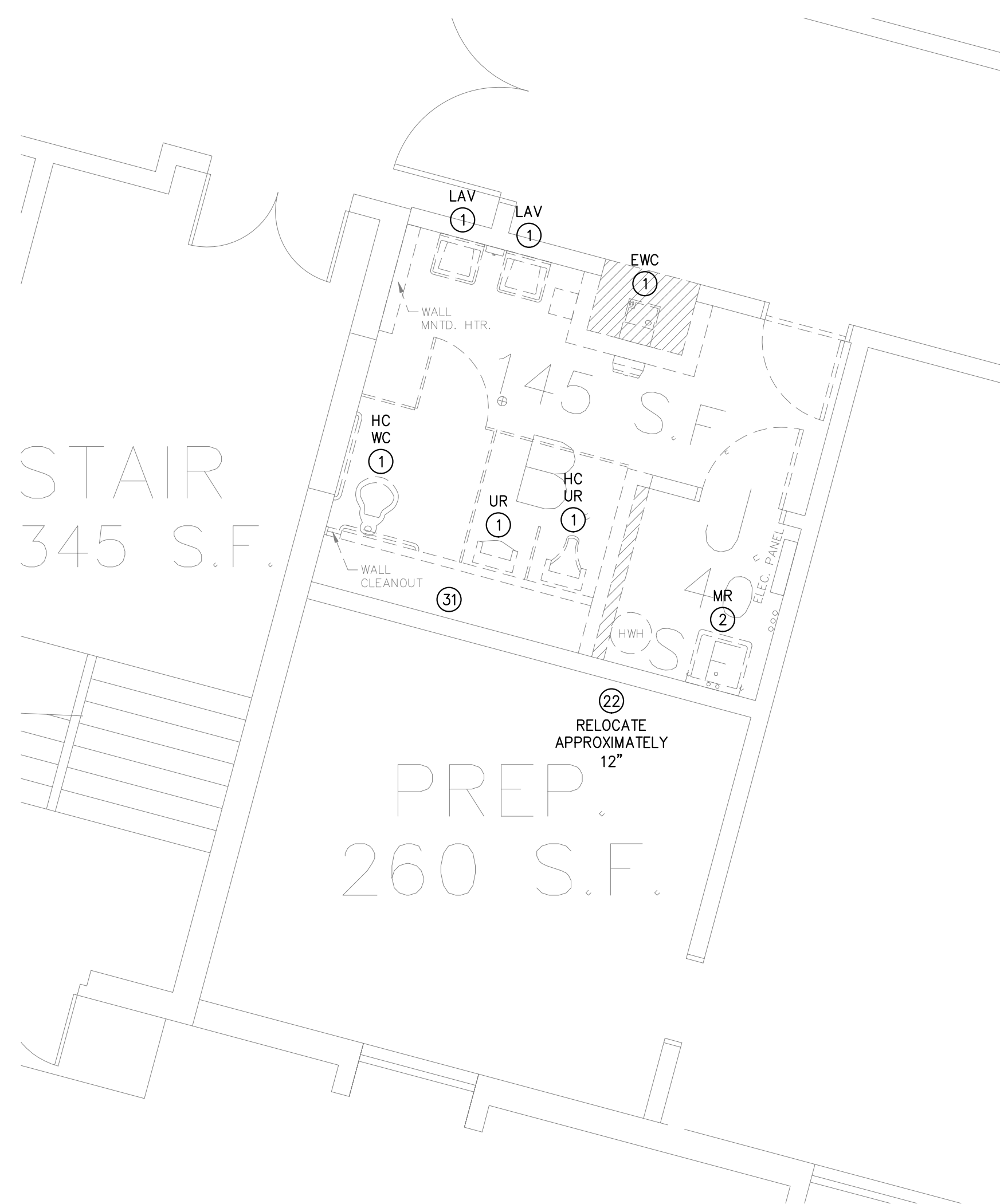
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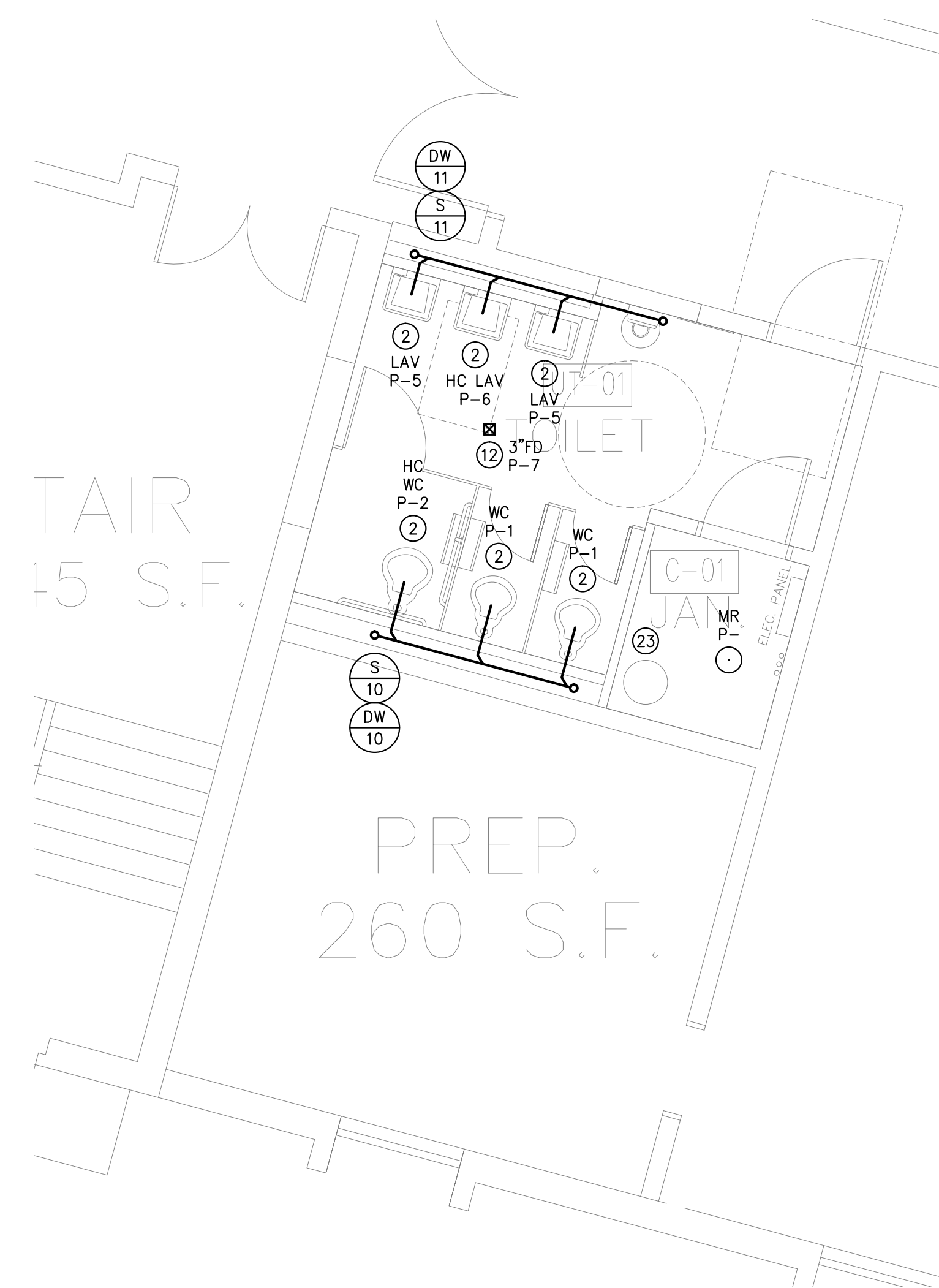
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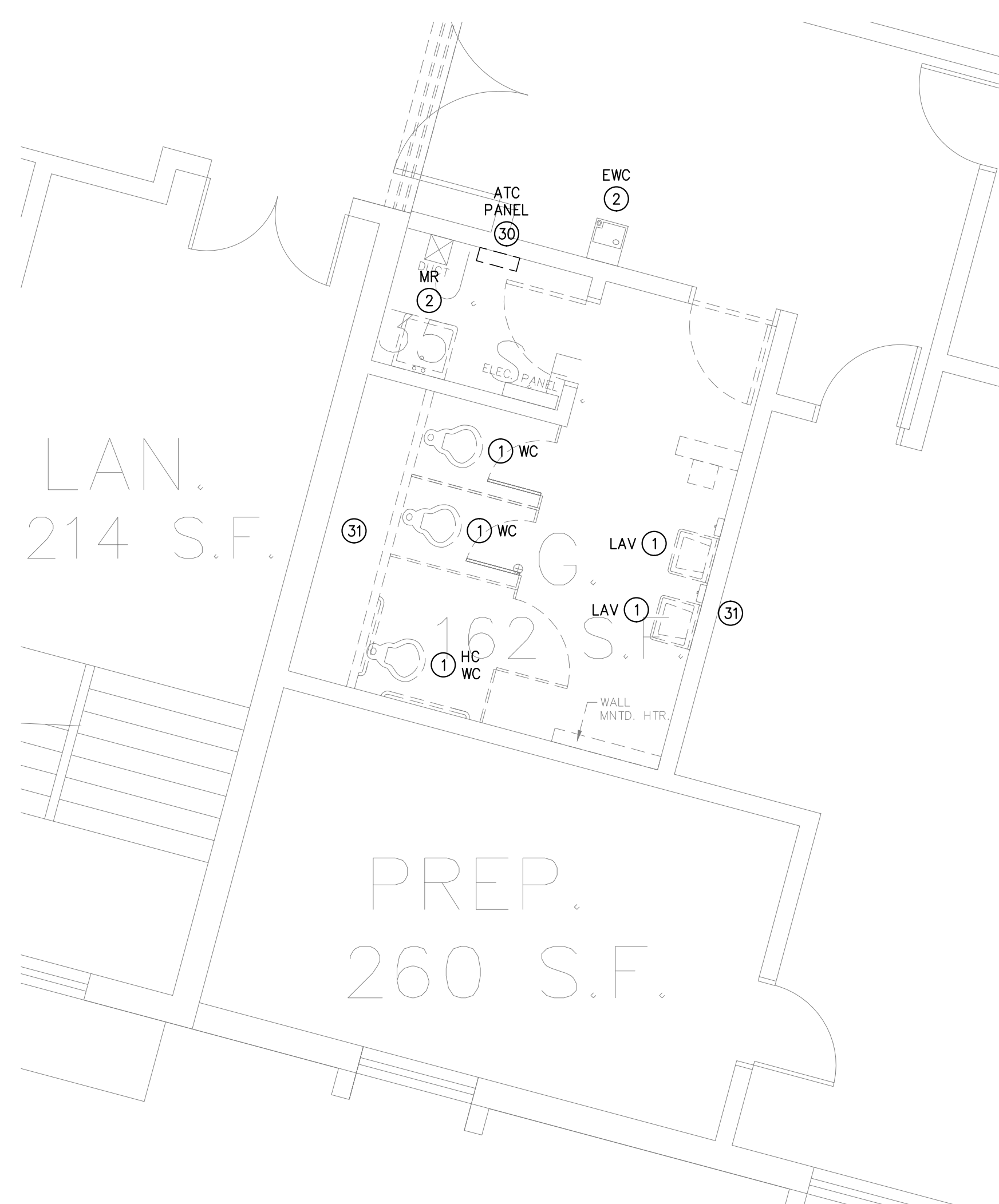
ALL WORK BY PLUMBING CONTRACTOR U.N.O.
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 FOR RISER DIAGRAMS SEE SHEET MP-3



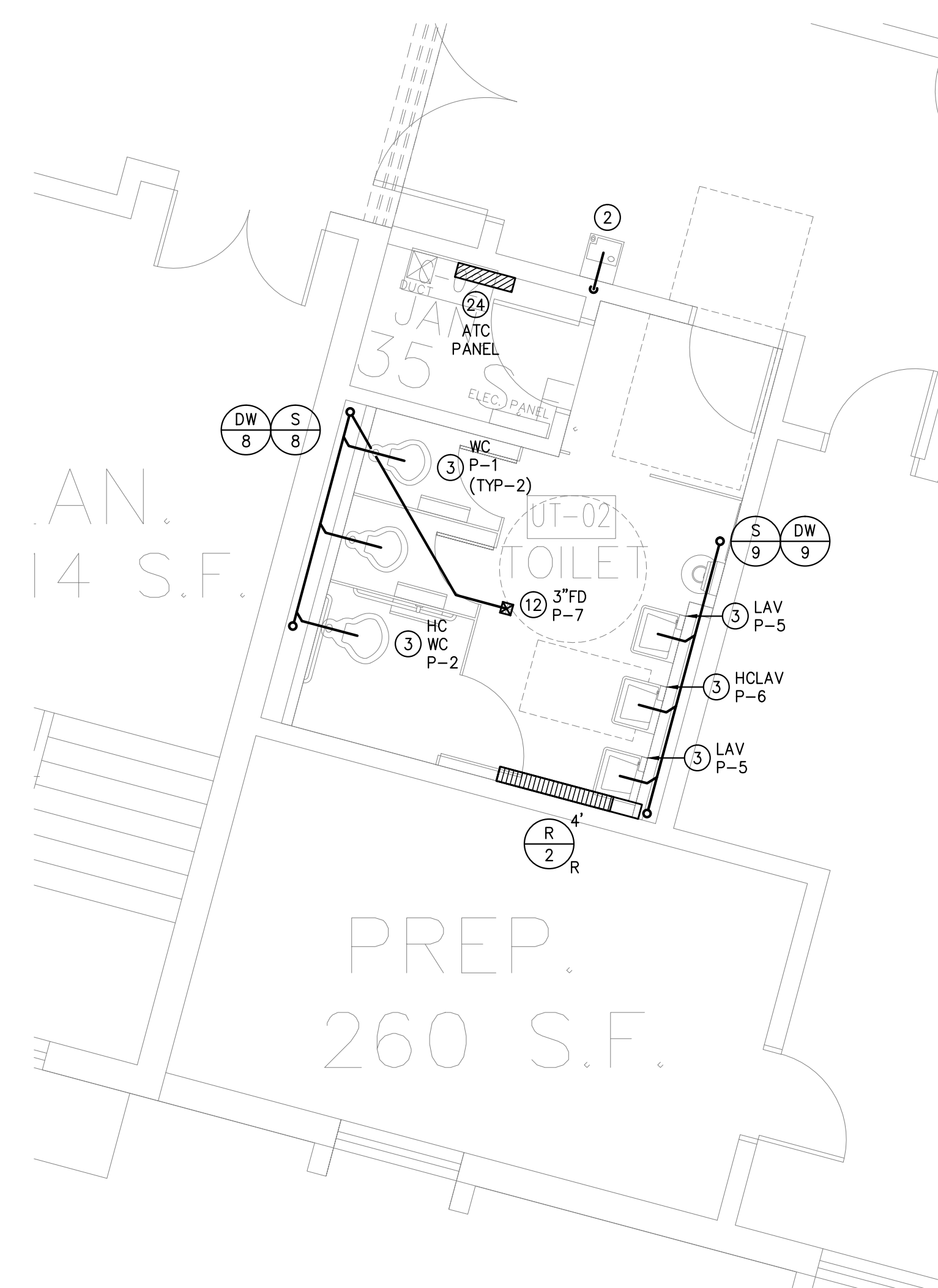
1 PLUMBING DEMOLITION ENLARGED TOILET ROOM PLAN
 MP-2 SCALE: 1/4" = 1'-0"



2 PLUMBING NEW WORK ENLARGED TOILET ROOM PLAN
 MP-2 SCALE: 1/4" = 1'-0"



3 PLUMBING DEMOLITION ENLARGED TOILET ROOM PLAN
 MP-2 SCALE: 1/4" = 1'-0"



4 PLUMBING NEW WORK ENLARGED TOILET ROOM PLAN
 MP-2 SCALE: 1/4" = 1'-0"



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c.	g.

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**PLUMBING
 ENLARGED
 TOILET PLANS**

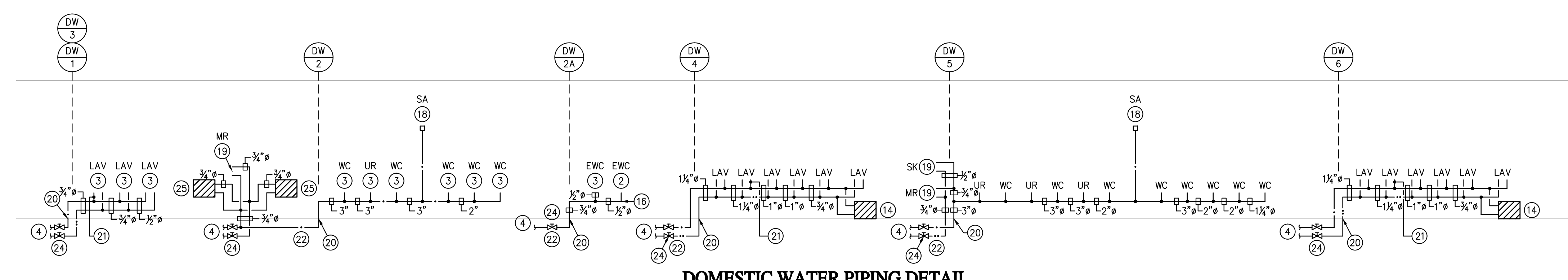
MP-2

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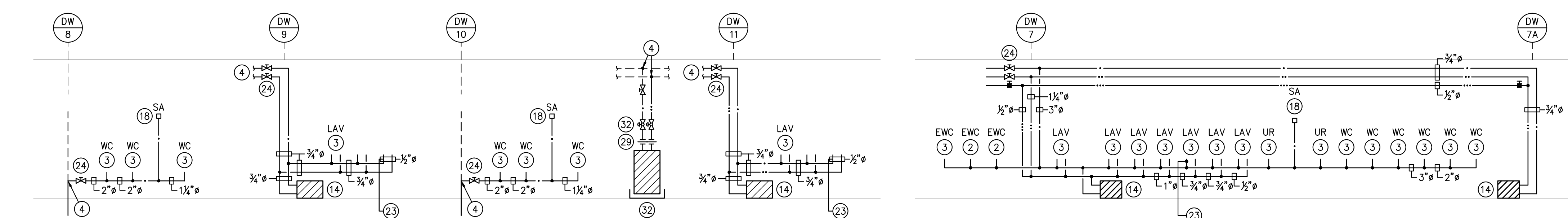
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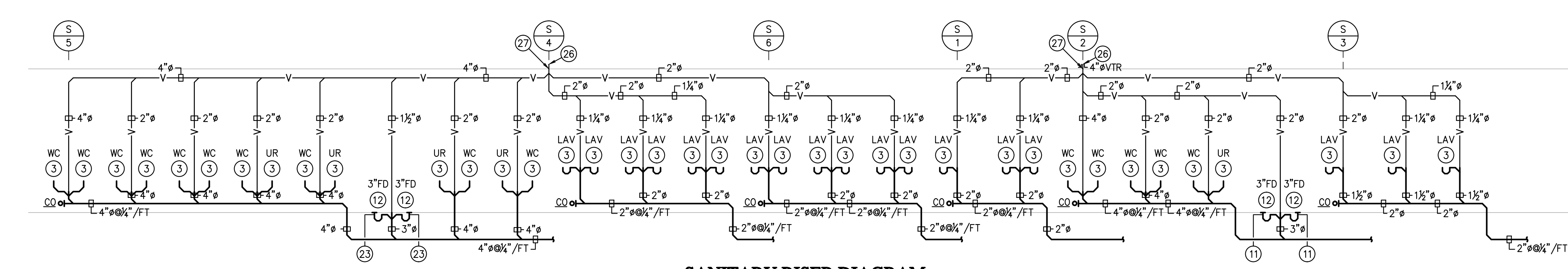
ALL WORK BY PLUMBING CONTRACTOR U.N.O.
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.
FOR RISER DIAGRAMS SEE SHEET MP-3



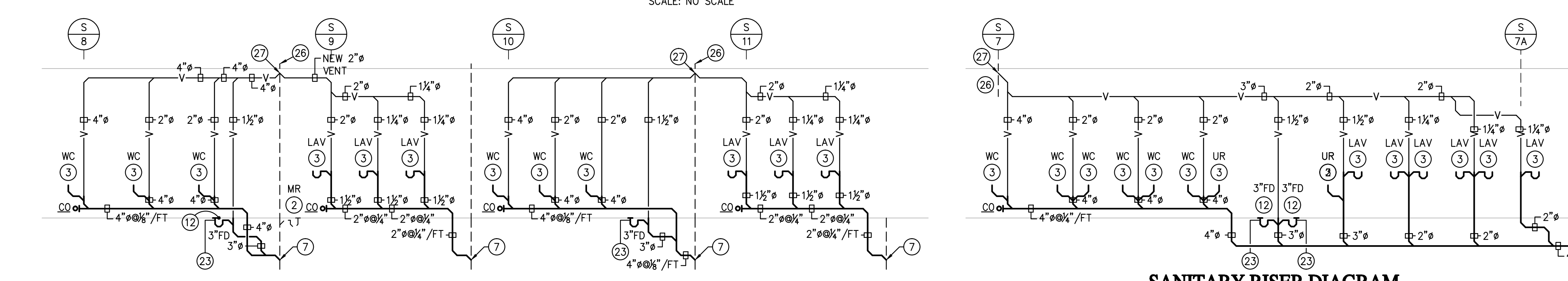
DOMESTIC WATER PIPING DETAIL
SCALE: NO SCALE



DOMESTIC WATER PIPING DETAIL
SCALE: NO SCALE



SANITARY RISER DIAGRAM
SCALE: NO SCALE



SANITARY RISER DIAGRAM
SCALE: NO SCALE

PLUMBING LEGEND

3CS	(3) COMPARTMENT SINK	—A—	COMPRESSED AIR
ACD	ACCESS DOOR	—C—	COLD WATER
AD	AREA DRAIN	—H—	DOMESTIC HOT WATER
BT	BATHTUB	—R—	DOMESTIC HOT WATER RETURN
CQ	CLEANOUT	—S—	SANITARY SEWER
DC	DENTAL CHAIR	—ST—	STORM WATER
DN	DOWN	—V—	VENT PIPING
DF	DRINKING FOUNTAIN	—F—	FIRE PROTECTION PIPE
DSW	DISHWASHER	—VAC—	VACUUM PIPE
DSHWR	DISHWASHER	—DCA—	DENTAL COMPRESSED AIR
EWC	ELECTRIC WATER COOLER	—AR—	ACID RESISTANT PIPE
FH	FUME HOOD	—ARV—	ACID RESISTANT VENT
FPS	FOOD PREP SINK	—X—	SPRINKLER HEAD
FS	FLOOR SINK	—C/O—	CLEANOUT
GS	GREASE INTERCEPTOR	—F/D—	FLOOR DRAIN
HCLS	HANDICAPPED LAB STATION/SINK	—G/V—	GATE VALVE
HD	HUB DRAIN	—C/V—	CHECK VALVE
HS	HAND SINK	—R/V—	RELIEF VALVE
HTUB	HYDRO THERAPY TUB	—A/T—	AUTOMATIC THREE-WAY VALVE
HWS	HAIR WASH SINK	—G/V—	GLOBE VALVE
IS	INSTRUCTORS TABLE/SINK	—P/RV—	PRESSURE REDUCING VALVE
LAV	LAVATORY	—A/T—	AUTOMATIC TWO-WAY VALVE
LS	LAB STATION/SINK	—G—	GAS COCK
MR	MOP RECEPTOR	—S—	STRAINER
MR	MOP RECEPTACLE	—SC—	SIAMOSE CONNECTION
MH	MANHOLE	—U—	UNION
MV	MIXING VALVE	—T—	THERMOMETER
OI	OIL INTERCEPTOR	—P/GC—	PRESSURE GAUGE W/GAUGE COCK
PEDSK	PEDICURE SINK	—WH(HB)—	WALL HYDRANT (HOSE BIBB)
PS	PREP ROOM SINK	—N/C—	NEW CONNECTION TO EXISTING
RWC	RAINWATER CONDUCTOR	—D—	POINT OF DEMOLITION
SHWR	SHOWER	—SA—	SHOCK ABSORBER
SI	SAND INTERCEPTOR	—B—	BALANCING VALVE
STK	STACK		
SS	SERVICE SINK		
UNO	UNLESS NOTED OTHERWISE		
UR	URINAL		
V	VENT		
VTR	VENT TO ROOF		
WC	WATER CLOSET		
WS	WASH STATION		

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	ABBREV	FIXTURE UNIT VALUE	CONNECTION SIZES			REMARKS	
			(TRAP) SAN	VENT	HW		CW
WATER CLOSET	WC	6	4	2	-	1 1/2"	FLUSH VALVE
URINAL	UR	4	3	1 1/2"	-	1"	
LAVATORY	LAV	1	1 1/2"	1 1/2"	1/2"	1/2"	
SHOWER	SHWR	2	2	2	1/2"	1/2"	
MOP RECEPTOR	MR	3	3	3	3/4"	3/4"	
ELECTRIC WATER COOLER	EWC	1/2	1 1/2"	1 1/2"	-	1/2"	
SINK	SK	2	1 1/2"	1 1/2"	1/2"	1/2"	
FLOOR DRAIN	FD	4	4	2	-	-	DEEP SEAL TRAP

- PLUMBING NOTES**
- EXISTING PLUMBING FIXTURE TO BE REMOVED. REMOVE ALL ASSOCIATED PIPE AND APPURTENANCES. CAP ALL PIPE BEHIND FINISHED SURFACES. TYPE OF FIXTURE AS INDICATED.
 - EXISTING PLUMBING FIXTURE TO REMAIN. VERIFY EXACT LOCATION AND CONDITION IN FIELD.
 - NEW PLUMBING FIXTURE TYPE AS INDICATED.
 - CONNECT NEW DOMESTIC WATER PIPE TO EXISTING PIPE. REPAIR PIPE AND INSULATION.
 - EXISTING DOMESTIC WATER PIPE TO BE REMOVED. REMOVE ALL HANGERS AND APPURTENANCES. CAP ALL PIPE. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
 - EXISTING DOMESTIC WATER PIPE TO REMAIN. VERIFY EXACT LOCATION. PROTECT DURING CONSTRUCTION.
 - CONNECT NEW SANITARY PIPE TO EXISTING SANITARY PIPE. VERIFY EXISTING PIPE LOCATION. REPAIR EXISTING PIPE. REMOVE EXISTING PIPE BACK TO JOINT TO ALLOW FOR NEW CONNECTION.
 - EXISTING SANITARY PIPE TO BE REMOVED. REMOVE ALL APPURTENANCES AND CAP EXISTING PIPE PER CODE. TYPE OF PIPE AND DEPTH TO BE DETERMINED IN FIELD.
 - EXISTING SANITARY PIPE TO REMAIN. VERIFY PIPE LOCATION, TYPE AND CONDITION IN FIELD.
 - NEW SANITARY PIPE IN CHASE.
 - NEW SANITARY PIPE BELOW FLOOR.
 - EXISTING FLOOR DRAIN TO BE REMOVED. CONTRACTOR SHALL REMOVE DRAIN, CUT AND PATCH FLOOR AND EXISTING FLOOR OPENING MAY BE USED FOR NEW FLOOR DRAIN.
 - EXISTING HOSE BIBB TO BE REMOVED.
 - PROVIDE NEW RECESSED STAINLESS STEEL LOCKABLE BOX WITH ACCESS DOOR IN CHASE BELOW LAVATORY. PROVIDE 3/4" DIA. HW & CW HOSE BIBBS. CABINET SIZE TO ALLOW CONNECTION OF HOSE.
 - SANITARY LINE DROP DOWN TO BELOW FLOOR.
 - EXISTING EWC TO REMAIN. REMOVE EXISTING DOMESTIC WATER AND PROVIDE NEW DOMESTIC WATER CONNECTED TO NEW LINE.
 - EXISTING EWC TO REMAIN. DISCONNECT EXISTING SANITARY AND CONNECT TO NEW SANITARY LINE.
 - NEW SHOCK ABSORBER EXTEND UP TO ABOVE CEILING IN CHASE. PROVIDE ACCESS PANEL ABOVE CEILING.
 - CONNECT NEW HOT AND COLD WATER PIPE TO EXISTING MOP RECEPTOR.
 - NEW DOMESTIC WATER PIPE UP THRU FLOOR FROM CRAWL SPACE.
 - CONNECT NEW 1/2" DIA. COPPER PIPE TO AUXILIARY INLET OF FLOOR DRAIN WITH TRAP PRIMER JR SMITH 2699.
 - NEW PIPE IN CRAWL SPACE.
 - CONNECT NEW 1/2" DIA. CW TYPE K COPPER IN SPLIT PVC PIPE WITH 1/2" THICK ARAMPLEX INSULATION TO AUXILIARY INLET OF FLOOR DRAIN. PROVIDE JR SMITH 2699 TRAP PRIMER.
 - PROVIDE NEW SHUTOFF VALVES.
 - PROVIDE LOCKED RECESSED STAINLESS STEEL CABINET WITH ACCESS DOOR. PROVIDE 3/4" DIA. CW AND HW HOSE BIBBS. CABINET SIZED TO ALLOW CONNECTION OF HOSE. LOCATE IN JANITORS CLOSET.
 - EXISTING VENT TO REMAIN.
 - CONNECT NEW VENT TO EXISTING VENT.
 - EXISTING ELECTRONIC DOMESTIC HOT WATER HEATER TO BE RELOCATED APPROXIMATELY 1'-0" FOR NEW WALL. EXISTING 1" DIA. HW WATER AND COLD WATER FEEDS FROM ABOVE CEILING TO BE REMOVED AND REINSTALLED FOR WALL INSTALLATION. CONNECT TO EXISTING PIPE ABOVE CEILING.
 - NEW LOCATION OF RELOCATED HOT WATER HEATER.
 - EXISTING ATC PANEL TO REMAIN.
 - REMOVE ALL EXISTING PLUMBING SANITARY VENT AND OR DOMESTIC WATER PIPE AND APPURTENANCES NOT BEING USED. EXISTING PIPE TO BE PROTECTED AND/OR MODIFIED TO ALLOW TO BE USED FOR NEW.
 - PROVIDE NEW DRAIN PAN WITH ALARM - WATTS FLOODSAFE #3A7F3 SHUTOFF VALVE POWER CORD (120V).

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FOR THE LOWER CAPE MAY REGIONAL SCHOOL DISTRICT
887 ROUTE 9 CAPE MAY, NEW JERSEY 08204

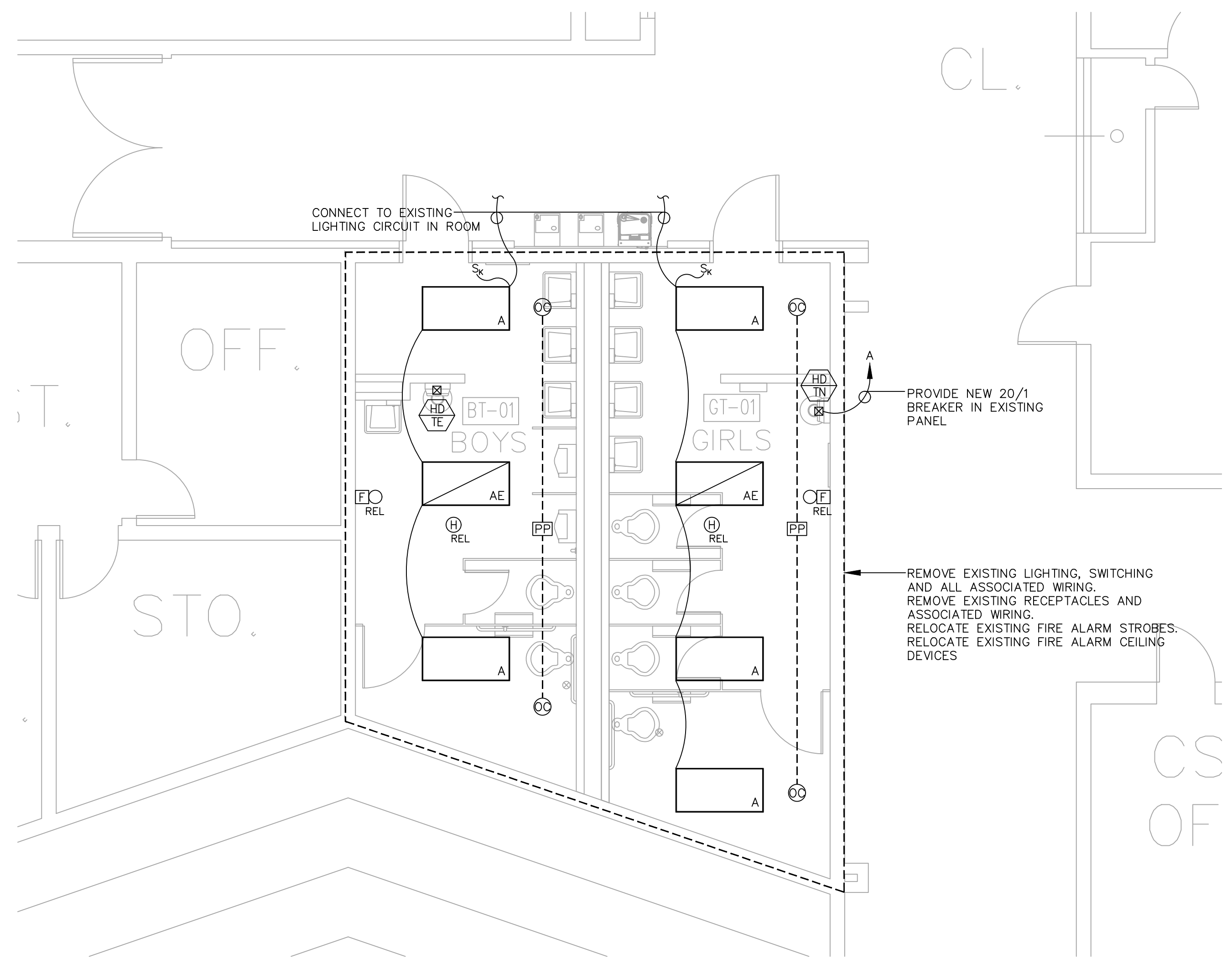
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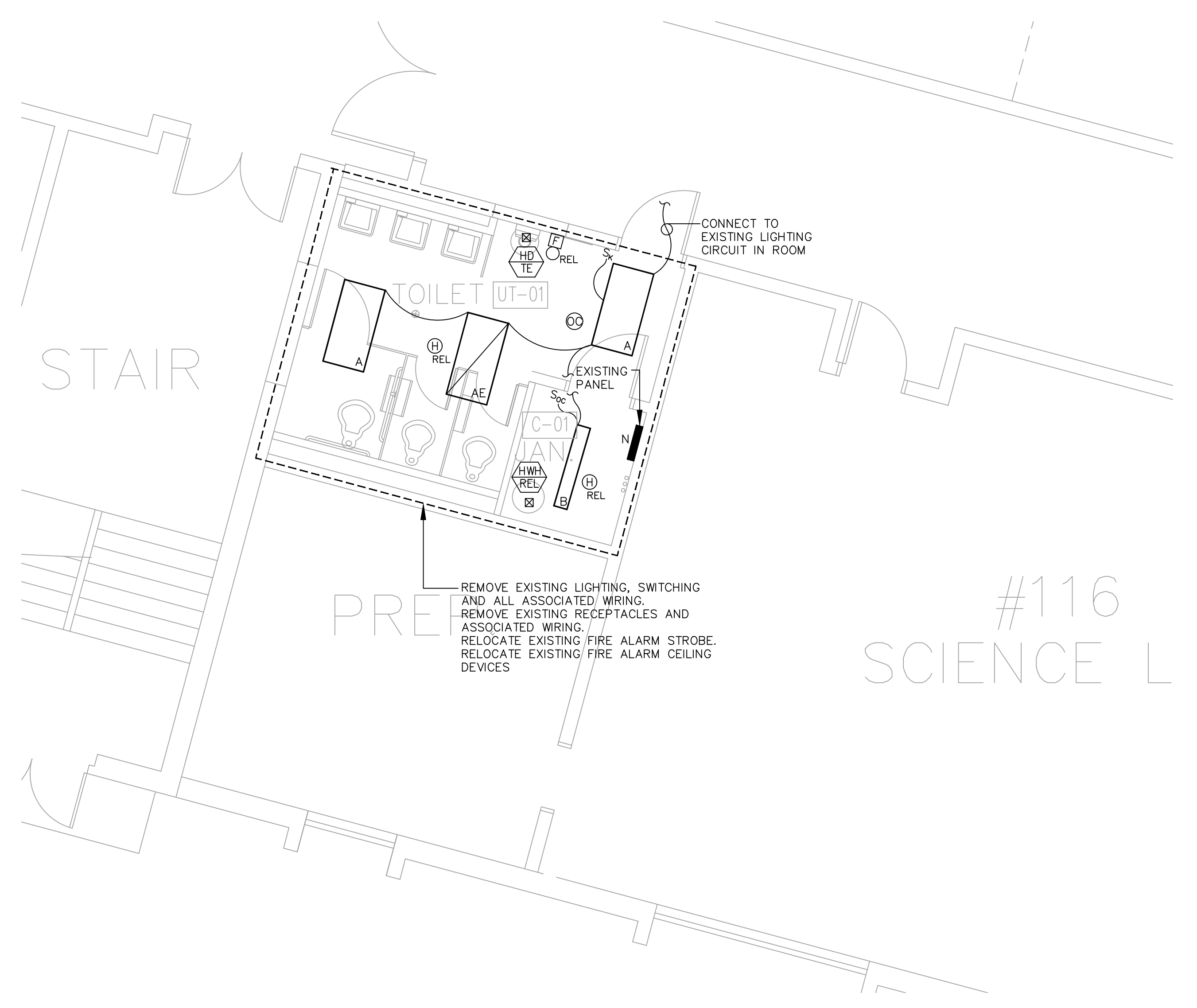
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PLUMBING RISER DIAGRAMS

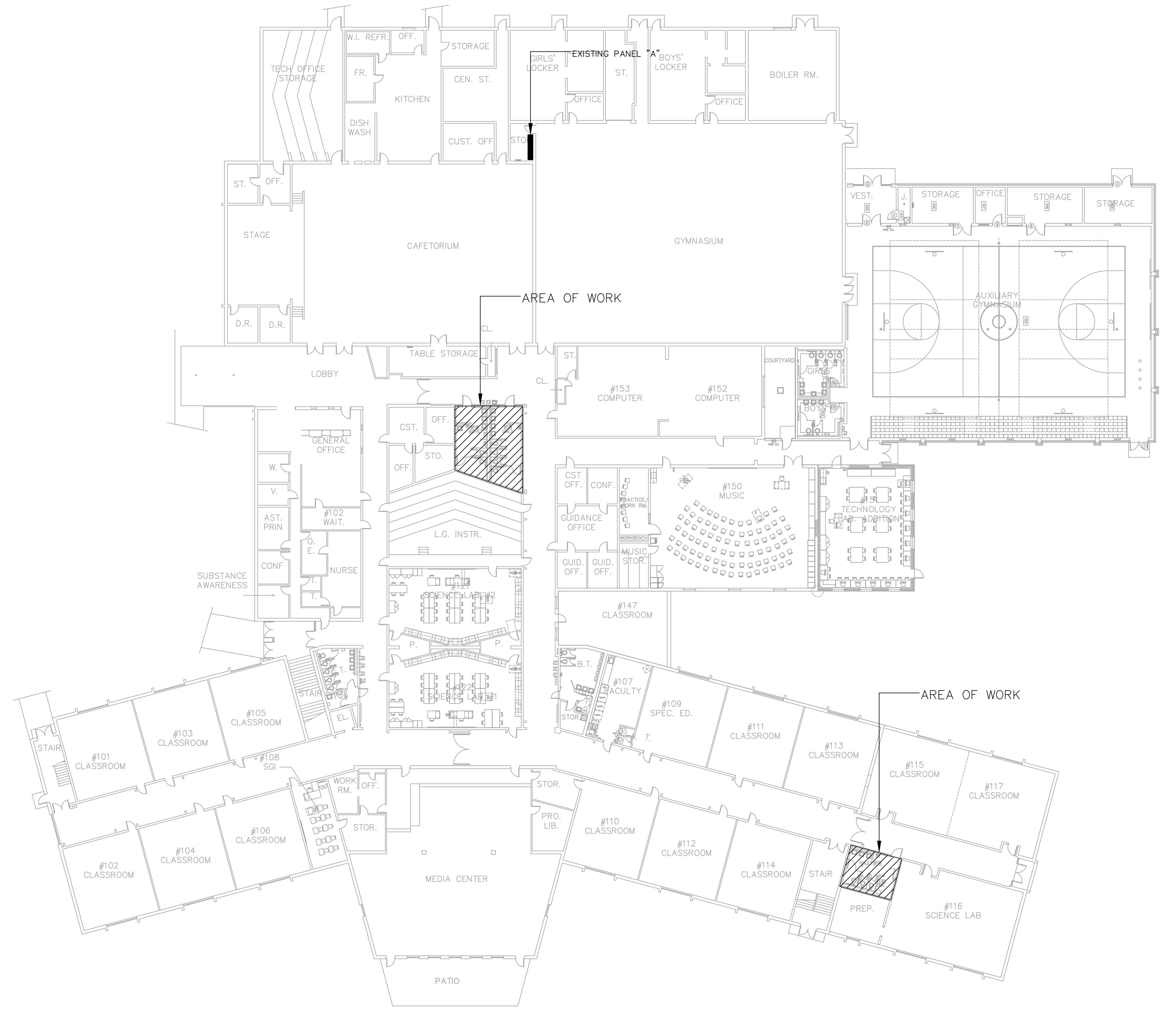
MP-3



1 FIRST FLOOR TOILET ELECTRICAL PLAN
 ME-1
 GRAPHIC SCALE (FEET)



2 FIRST FLOOR UNISEX TOILET ELECTRICAL PLAN
 ME-1
 GRAPHIC SCALE (FEET)



3 FIRST FLOOR ELECTRICAL KEY PLAN
 ME-1
 GRAPHIC SCALE (FEET)

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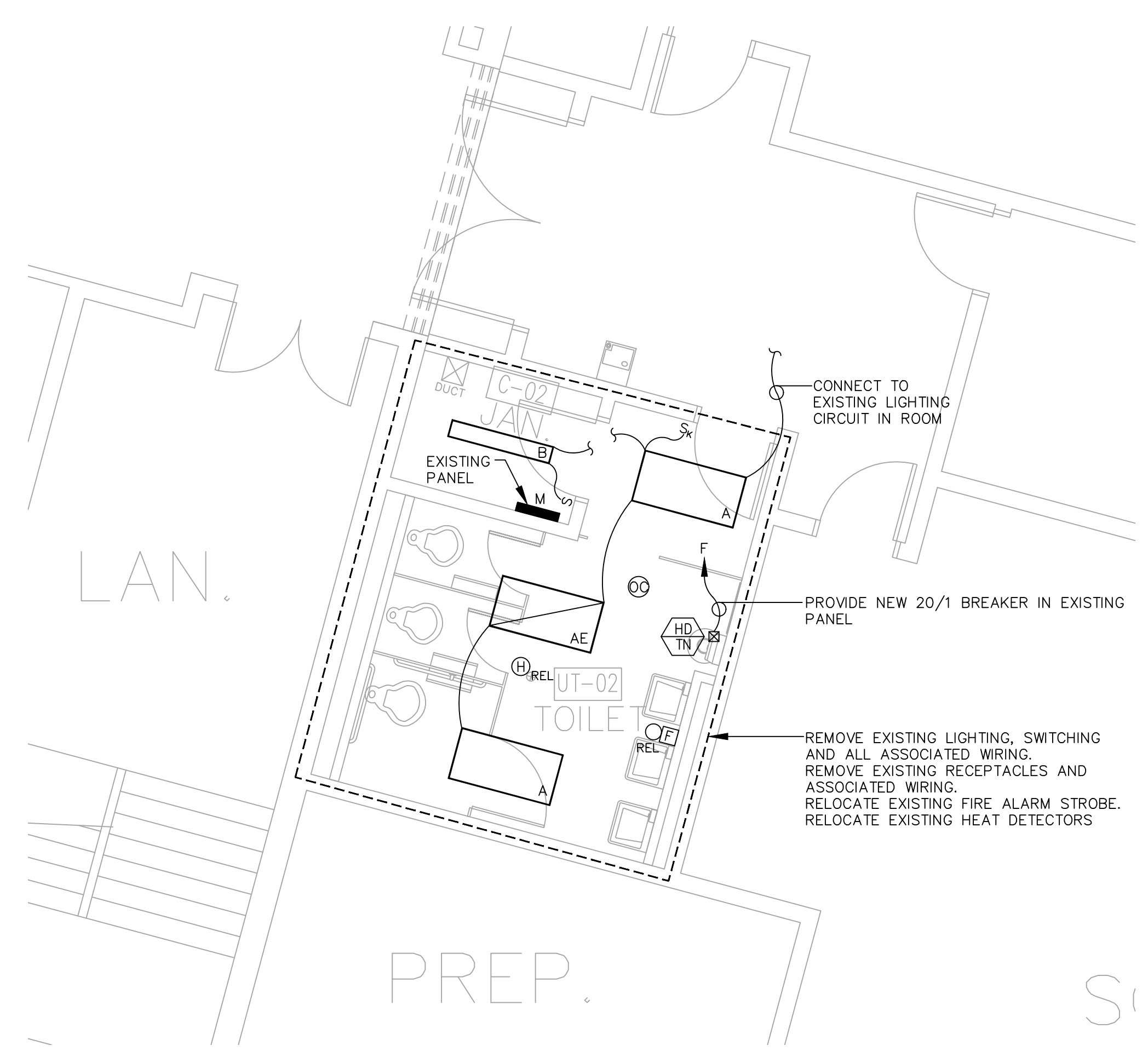
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TEITELMAN 1ST FLOOR ELECTRICAL PLAN ME-1

ELECTRICAL SYMBOL LIST

- 20A, 277/120V LOCKING STYLE SWITCH (S-K), SINGLE POLE, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, PASS & SEYMOUR #20AC*-L SERIES; FURNISH AND TURN OVER TO THE OWNER AT LEAST ONE (1) KEY PER SWITCH INSTALLED
 - OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL WITH INTEGRAL MANUAL OVERRIDE TO "ON" PUSH BUTTON (S-OC), FLUSH MOUNTED ON WALL (ON FLUSH MOUNTED OUTLET BOX), SELF-CONTAINED "STAND-ALONE" TYPE (SINGLE SENSOR FOR LOCAL LIGHTING CONTROL OF A SINGLE CIRCUIT ONLY), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE WITH INTEGRAL SWITCHING RELAY, RATED MINIMUM 800 W, 1,200 VA FOR 120 V OPERATION AND RATED MINIMUM 2,700 VA FOR 277 V OPERATION, SINGLE POLE, NOMINAL 93 m² (1,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SELECTABLE AUTOMATIC (OCCUPANCY SENSOR) OR MANUAL (VACANCY SENSOR) MODES, SPECIFICATION GRADE, WHITE FINISH, EATON/COOPER #ONW-D-1001-MV-* (OR APPROVED EQUAL)
 - OCCUPANCY SENSOR LIGHTING CONTROL [OC], FLUSH MOUNTED IN CEILING, FOR COMMON CONTROL OF LIGHTING (MULTIPLE SENSORS FOR LIGHTING CONTROL IN CONJUNCTION WITH REMOTE LIGHTING CONTROL RELAY MODULE(S)); MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE, 360 DEGREE NOMINAL 166 m² (2,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SPECIFICATION GRADE, WHITE FINISH; PROVIDE LOW VOLTAGE CONTROL WIRING AS REQUIRED BETWEEN SENSOR AND CONTROL RELAY
 - LIGHTING CONTROL RELAY MODULE [PP], INTERCONNECT (UTILIZING LOW VOLTAGE CONTROL WIRING AS REQUIRED) WITH OCCUPANCY SENSORS AS SHOWN ON THE DRAWINGS, RATED 1,800 VA FOR 120 V OPERATION AND RATED 4,800 VA FOR 277 V OPERATION, SINGLE POLE, SPECIFICATION GRADE; PROVIDE A MINIMUM OF ONE (1) RELAY PER CIRCUIT CONTROLLED (WHERE MULTIPLE RELAYS ARE SHOWN OR OTHERWISE REQUIRED, PROVIDE EXACT QUANTITY AS REQUIRED [INCLUDING ADDITIONAL RELAYS OR MODULES IF NEEDED]) TO SUPPORT THE SWITCHING CONTROL SHOWN ON DRAWINGS IN CONJUNCTION WITH THE QUANTITY OF CONTROLLING SENSORS INVOLVED, INTERCONNECT AUXILIARY CONTACTS AS REQUIRED FOR SIMULTANEOUS CONTROL; WHERE WALL SWITCHES (SINGLE POLE OR THREE-WAY) ARE INDICATED ALONG WITH OCCUPANCY SENSOR ON THE DRAWINGS, ARRANGE SWITCHES TO OPERATE AS MANUAL OVERRIDE TO "OFF" (AS RECOMMENDED BY OCCUPANCY SENSOR MANUFACTURER)
- 2 X 4 LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE
 - 1 X 4 LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE
 - INDICATES LIGHTING FIXTURE WITH EMERGENCY DRIVER
 - EQUIPMENT CONNECTION, REFER TO THE EQUIPMENT SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION
 - EQUIPMENT DESIGNATION, FOR REFERENCE TO THE EQUIPMENT SCHEDULE
 - ELECTRICAL PANEL
 - INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED
 - FIRE ALARM VISUAL ONLY STROBE, "REL" INDICATES RELOCATE EXISTING DEVICE, EXTEND ALL WIRING AS REQUIRED. ALL NEW WIRING SHALL BE RECESSED
 - FIRE ALARM HEAT DETECTOR (H), "REL" INDICATES RELOCATE EXISTING DEVICE, EXTEND ALL WIRING AS REQUIRED
- NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED EDITION
- ELECTRICAL CONTRACTOR (EC)
- MECHANICAL CONTRACTOR (MC), INCLUDING ALL MECHANICAL TRADES IN GENERAL (MECHANICAL, HVAC, ATC, PLUMBING, FIRE PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES
- GENERAL CONTRACTOR (GC), INCLUDING ALL GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL, CONCRETE, SITE, ETC.), REFER TO ARCHITECTURAL AND SITE DOCUMENTS FOR DISTINCTION BETWEEN CONTRACTORS/TRADES



1 SECOND FLOOR UNISEX TOILET ELECTRICAL PLAN
 ME-2
 GRAPHIC SCALE (FEET)



2 SECOND FLOOR ELECTRICAL KEY PLAN
 ME-2
 GRAPHIC SCALE (FEET)

2019 Toilet Room Renovations at the Richard M. Teitelman Middle School
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204
FOR THE LOWER CAPE MAY REGIONAL SCHOOL DISTRICT
 687 ROUTE 9 CAPE MAY, NEW JERSEY 08204

REVISIONS

a.	e.
b.	f.
c.	g.

Project No. 18-94MS
 Date: 01-29-19
 Scale: AS NOTED

TEITELMAN
2ND FLOOR
ELECTRICAL
PLAN
ME-2

ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
- 2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
- 3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT IN THE FIELD PRIOR TO ROUGH IN.
- 4) VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT. PROVIDE A COMPLETE AND WORKING INSTALLATION.
- 5) THE TERM "PROVIDE" MEANS, "FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR", AND THE TERMS "CONTRACTOR" AND "E.C." MEAN "ELECTRICAL CONTRACTOR", UNLESS INDICATED OTHERWISE. ALL WORK INDICATED ON THE ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS IS BY THE E.C. (UNLESS INDICATED OTHERWISE) AND IS NEW (UNLESS INDICATED OTHERWISE).
- 6) PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.
- 7) PERFORM ALL WORK IN PHASES AND SEQUENCES AS DIRECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FULLY COORDINATE PHASES/SEQUENCES IN DETAIL WITH ALL CONTRACTORS/TRADES, THE ARCHITECT, AND THE OWNER PRIOR TO PERFORMING WORK AND INCLUDE ALL COSTS IN BID.
- 8) COMPLETELY DISCONNECT AND REMOVE ALL EXISTING WIRING AND ELECTRICAL EQUIPMENT IN AREAS BEING RENOVATED, IN AREAS OF GENERAL DEMOLITION, INTERFERING WITH NEW CONSTRUCTION BY ANY CONTRACTOR OR TRADE (INCLUDING, BUT NOT LIMITED TO, GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.), AND SERVING EQUIPMENT AND APPARATUS REMOVED AS PART OF THIS PROJECT (BY ANY CONTRACTOR OR TRADE), UNLESS INDICATED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF RENOVATIONS AND AREAS OF GENERAL DEMOLITION. REFER TO AND CAREFULLY EXAMINE DRAWINGS AND SPECIFICATIONS OF ALL TRADES TO IDENTIFY AREAS OF INTERFERENCE WITH NEW CONSTRUCTION AND EQUIPMENT/APPARATUS REMOVALS. BASE PRICING ON THE ASSUMPTION THAT ELECTRICAL REMOVALS ARE NECESSARY IN ALL AREAS OF DEMOLITION (GENERAL DEMOLITION AS WELL AS DEMOLITION OF ANY SYSTEMS IN THE BUILDING [SPECIFICALLY INCLUDING DUCTWORK, PIPING, AND WIRING SYSTEMS OF ANY KIND]) AND ALL AREAS OF PROPOSED NEW WORK (BY ANY TRADE), UNLESS ACTUALLY VERIFIED OTHERWISE BY THE ELECTRICAL CONTRACTOR. INCLUDE ALL COSTS IN BID.
- 9) WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE, INCLUDING GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC.) FEEDS LOADS WHICH REMAIN OR FEEDS LOADS IN ADJACENT OR OTHER AREAS NOT WITHIN THE SCOPE OF WORK, THE WIRING SHALL REMAIN. RELOCATE, EXTEND, AND/OR RE-FEED THE EXISTING WIRING AS REQUIRED TO MAINTAIN SERVICE, UNLESS INDICATED OTHERWISE. BASE PRICING ON THE ASSUMPTION THAT RELOCATING, EXTENDING, AND RE-FEEDING IS NECESSARY IN ALL AREAS OF DEMOLITION AND ALL AREAS OF PROPOSED NEW WORK (BY ANY TRADE), UNLESS ACTUALLY VERIFIED OTHERWISE BY THE ELECTRICAL CONTRACTOR. INCLUDE ALL COSTS IN BID.
- 10) WHERE RE-FEEDING EXISTING ELECTRICAL CIRCUITS AND LOADS, VERIFY ALL REQUIREMENTS IN THE FIELD AND INCLUDE ALL COSTS IN BID. VERIFY EXACT CONDUCTOR SIZES AND AMPACITY, EXISTING CIRCUIT BREAKER AND/OR FUSE AMPS, LOAD NAMEPLATE RATINGS, CONDUIT SIZES, ETC., FOR EQUIPMENT TO BE RE-FED, PROVIDE ALL NEW WIRING DIRECTLY TO THE EQUIPMENT. DO NOT REUSE EXISTING WIRING TO RE-FEED EQUIPMENT, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- 11) INFORMATION REGARDING EXISTING CONDITIONS AND EQUIPMENT AND ALL INFORMATION REGARDING REMOVALS (INCLUDING INFORMATION REGARDING THE SCOPE OF REMOVALS ON ARCHITECTURAL DRAWINGS) INDICATES GENERAL CONDITIONS AND ARE A GUIDE TO PRICING ONLY. PRIOR TO SUBMITTING BID, VISIT THE PROJECT SITE AND VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT, ALL REMOVALS AND REQUIREMENTS, AND ALL TIE-INS TO EXISTING EQUIPMENT AND WIRING IN DETAIL. INCLUDE ALL COSTS IN BID. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR NOT FIRST VERIFYING ALL CONDITIONS.
- 12) FOR ALL NEW CIRCUIT BREAKERS IN EXISTING BRANCH AND DISTRIBUTION PANELS, PROVIDE CIRCUIT BREAKERS MATCHING AND COMPATIBLE WITH EXISTING CIRCUIT BREAKERS. PROVIDE WITH SHORT CIRCUIT INTERRUPTING RATINGS EQUAL TO OR EXCEEDING THE HIGHEST RATED EXISTING BRANCH CIRCUIT BREAKER IN THE PANEL. CIRCUIT BREAKER TYPES INDICATED ON THE DRAWINGS (WHERE APPLICABLE) ARE GUIDES TO PRICING ONLY. VERIFY EXACT TYPE AND ALL REQUIREMENTS IN FIELD PRIOR TO RELEASING EQUIPMENT.
- 13) FOR ALL WIRING AND WORK INDICATED, INCLUDING ALL SYSTEMS (POWER, LIGHTING, FIRE ALARM), PROVIDE ALL NEW CONDUITS, RACEWAYS, OUTLETS, AND CONDUCTORS, INCLUDING ALL COSTS IN BID. WHERE SPECIFICALLY APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER, EXISTING CONDUITS AND RACEWAYS MAY BE REUSED. PROVIDE A SEPARATE GROUNDING CONDUCTOR, IN ADDITION TO ALL OTHER GROUNDING CONDUCTORS SPECIFIED, AND BOND TO ALL RACEWAYS, CONDUITS, BOXES, AND OUTLETS WHERE RACEWAYS ARE REUSED. DO NOT DEPEND ON EXISTING CONDUITS/RACEWAYS FOR GROUNDING PATHS. REUSE EXISTING CONDUCTORS ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
- 14) COMPLETELY SEAL AND FIRE STOP ALL PENETRATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, FLOORS, CEILINGS, AND ANY OTHER CONSTRUCTION (INCLUDING ALL WALLS REQUIRED TO BE RATED BY CODE) TO A RATING MATCHING OR EXCEEDING THE FIRE RATING OF THE CONSTRUCTION. COMPLETELY SEAL AND WEATHERPROOF ALL PENETRATIONS OF EXTERIOR, AT OR BELOW GRADE, AND WET LOCATION WALLS AND FLOORS AND ROOF PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON FIRE RATINGS OF BUILDING CONSTRUCTION AND INCLUDE ALL COSTS IN BID. COMPLY WITH AND INSTALL FIRE STOPPING IN ACCORDANCE WITH ALL APPLICABLE FIRE RATING CODES AND STANDARDS (INCLUDING THE NEC, NFPA, IBC, AND THE UL "FIRE RESISTANCE DIRECTORY").
- 15) WHERE EXISTING CEILINGS ARE REMOVED AND REINSTALLED (EITHER PARTLY OR ENTIRELY), THE E.C. SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (INCLUDING LIGHTING FIXTURES, FIRE ALARM DEVICES (INCLUDING, BUT NOT LIMITED TO, SMOKE AND HEAT DETECTORS, SIGNALING DEVICES, INDICATORS, ETC.), SECURITY/CCTV CAMERAS, MOTION DETECTORS, SPEAKERS, AND ALL OTHER ELECTRICAL DEVICES, EQUIPMENT, AND APPARATUS) FROM THE CEILING GRID AND CEILING TILES. LEAVE IN PLACE AT THE CEILING AND SUPPORT (IN A CODE APPROVED AND LOCAL CODE OFFICIAL APPROVED MANNER) AS REQUIRED TO FACILITATE CEILING REMOVAL. ONCE CEILING IS REINSTALLED, THE E.C. SHALL PERMANENTLY REINSTALL ALL ELECTRICAL EQUIPMENT IN THE CEILING. WHERE NEW EQUIPMENT IS SHOWN ON THE DRAWINGS, THE E.C. SHALL COMPLETELY DISCONNECT AND REMOVE EXISTING EQUIPMENT (BEING REPLACED) AND ALL ASSOCIATED WIRING AND PROVIDE ALL NEW EQUIPMENT AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS. CEILINGS MAY BE LEFT OPEN FOR A LONG PERIOD OF TIME (I.E. THERE MAY BE SEVERAL MONTHS OR MORE BETWEEN THE TIME OF REMOVAL AND THE TIME OF REINSTALLING CEILINGS). WHEN CEILINGS ARE NOT IN PLACE, MAINTAIN (AS OPERATIONAL) ALL FIRE ALARM DEVICES AND EQUIPMENT AND NORMAL AND EMERGENCY LIGHTING AS REQUIRED (TEMPORARILY INSTALL FIRE ALARM DEVICES, SUPPORTED FROM STRUCTURE AND PROVIDE TEMPORARY LIGHTING OR TEMPORARILY SUPPORT EXISTING LIGHTING FROM STRUCTURE AS REQUIRED). WHEN CEILINGS ARE NOT IN PLACE, SAFELY SECURE EVERYTHING WHICH IS EXPOSED BY THE ABSENCE OF CEILINGS (NEW AND EXISTING) AND KEEP ALL AREAS CLEAN WHEN OCCUPIED. THIS CEILING WORK IS NOT SHOWN ON ELECTRICAL PLANS (SEE ARCHITECTURAL DRAWINGS AND CEILING PLANS AND OTHER TRADES DRAWINGS FOR INFORMATION). THIS CEILING WORK APPLIES REGARDLESS OF THE PARTY REMOVING THE CEILING AND REGARDLESS OF WHETHER OR NOT CEILING REMOVAL IS SHOWN ON DRAWINGS. COORDINATE WITH ALL CONTRACTORS AND TRADES TO CONFIRM THE EXTENT OF CEILING WORK AND INCLUDE ALL COSTS IN BID. THIS CEILING WORK ALSO APPLIES WHERE ANY CONTRACTOR CHOOSES TO INSTALL NEW CEILING IN LIEU OF REINSTALLING THE EXISTING CEILING.
- 16) WHERE EXISTING CEILINGS ARE REMOVED AND NEW CEILINGS ARE INSTALLED (EITHER PARTLY OR ENTIRELY), THE E.C. SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (INCLUDING LIGHTING FIXTURES, FIRE ALARM DEVICES (INCLUDING, BUT NOT LIMITED TO, SMOKE AND HEAT DETECTORS, SIGNALING DEVICES, INDICATORS, ETC.), SECURITY/CCTV CAMERAS, MOTION DETECTORS, SPEAKERS, AND ALL OTHER ELECTRICAL DEVICES, EQUIPMENT, AND APPARATUS) FROM THE CEILING GRID AND CEILING TILES. LEAVE IN PLACE AT THE CEILING AND SUPPORT (IN A CODE APPROVED AND LOCAL CODE OFFICIAL APPROVED MANNER) AS REQUIRED TO FACILITATE CEILING REMOVAL. ONCE NEW CEILING IS INSTALLED, THE E.C. SHALL PERMANENTLY REINSTALL ALL ELECTRICAL EQUIPMENT IN THE CEILING. WHERE NEW EQUIPMENT IS SHOWN ON THE DRAWINGS, THE E.C. SHALL COMPLETELY DISCONNECT AND REMOVE EXISTING EQUIPMENT (BEING REPLACED) AND ALL ASSOCIATED WIRING AND PROVIDE ALL NEW EQUIPMENT AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS. CEILINGS MAY BE LEFT OPEN FOR A LONG PERIOD OF TIME (I.E. THERE MAY BE SEVERAL MONTHS OR MORE BETWEEN THE TIME OF REMOVAL AND THE TIME OF INSTALLING NEW CEILINGS). WHEN CEILINGS ARE NOT IN PLACE, MAINTAIN (AS OPERATIONAL) ALL FIRE ALARM DEVICES AND EQUIPMENT AND NORMAL AND EMERGENCY LIGHTING AS REQUIRED (TEMPORARILY INSTALL FIRE ALARM DEVICES, SUPPORTED FROM STRUCTURE AND PROVIDE TEMPORARY LIGHTING OR TEMPORARILY SUPPORT NEW OR EXISTING LIGHTING FROM STRUCTURE AS REQUIRED). WHEN CEILINGS ARE NOT IN PLACE, SAFELY SECURE EVERYTHING WHICH IS EXPOSED BY THE ABSENCE OF CEILINGS (NEW AND EXISTING) AND KEEP ALL AREAS CLEAN WHEN OCCUPIED. THIS CEILING WORK IS NOT SHOWN ON ELECTRICAL PLANS (SEE ARCHITECTURAL DRAWINGS AND CEILING PLANS FOR INFORMATION).
- 17) WHERE ELECTRICAL WORK INVOLVES REMOVAL AND REINSTALLATION OF EXISTING CEILINGS, REMOVAL AND RELOCATION IS THE RESPONSIBILITY OF THE E.C.. AS AN ALTERNATIVE (AT THE E.C.'S OPTION) TO REINSTALLING CEILINGS REMOVED TO FACILITATE ELECTRICAL WORK, THE E.C. MAY INSTALL A NEW CEILING OF A TYPE MATCHING THE EXISTING CEILING PROVIDED THERE IS NO COST CHANGE TO THE CONTRACT (WHEREVER NEW CEILING INVOLVES ADDITIONAL COST TO THE CONTRACT, NEW CEILING IS NOT ACCEPTABLE). REPLACE ANY CEILING TILES DAMAGED AS PART OF ELECTRICAL WORK.

EQUIPMENT CONNECTION NOTES

- 1) EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- 2) THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL CIRCUIT BREAKER AMPERES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
- 3) PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.
- 4) ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL, OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).
- 5) PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.
- 6) PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS.
- 7) PROVIDE CIRCUIT WIRING AND CONDUIT FROM THE APPROPRIATE PANEL (REFER TO PANEL SCHEDULES) TO THE EQUIPMENT (PASSING THROUGH ANY APPLICABLE CONTROLS AND LOCAL DISCONNECTING MEANS) AS PER THE EQUIPMENT SCHEDULES. PROVIDE INDIVIDUAL NEUTRAL (WHERE APPLICABLE) AND EQUIPMENT GROUNDING CONDUCTORS WITH EACH CIRCUIT.
- 8) FEED FREE STANDING EQUIPMENT UNABLE TO BE SERVED BY WIRING RUN ON/ALONG WALLS OR COLUMNS WITH CONDUIT FROM THE CEILING OR UNDER THE FLOOR, SUITABLY SUPPORTED.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
A	2' X 4' RECESSED LED, 0-10V DIMMING	COLUMBIA	CFP24-5535	50 WATT LED, 5477 LUMENS 3500 DEG K	
AE	2' X 4' RECESSED LED, 0-10V DIMMING WITH FIELD INSTALLED EMERGENCY DRIVER	COLUMBIA	CFP24-5535 PLD10M	50 WATT LED, 5477 LUMENS 3500 DEG K	
B	4' INDUSTRIAL LED	COLUMBIA	LCL-30ML-EDU	42W LED, 5154 LUMENS 3500 DEG K	

EQUIPMENT CONNECTION SCHEDULE

EQUIP. NUMBER	DESCRIPTION	RATED VOLTAGE/ PHASE	LOAD (VA)	HORSE POWER/ KW	BREAKER AMPS/ POLES	PANEL	PLUG-IN RECEPTACLE NEMA CONFIG	DISCONNECT SWITCH AMPS/POLES	CIRCUIT	REMARKS
HD-1E	TYPICAL HAND DRYER (IN BATHROOM THAT HAS HAND DRYER)	120V-1PH	1,500		20/1	P*	N/A	J-BOX	3 # 10, 3/4" C	NOTE # 2 BELOW
HD-1N	TYPICAL HAND DRYER (IN BATHROOM WITH NO HAND DRYER)	120V-1PH	1,500		20/1	P*	N/A	J-BOX	3 # 10, 3/4" C	REFERENCE ELECTRICAL PLANS
HWH-REL	ELECTRIC HOT WATER HEATER, MIDDLE SCHOOL (RELOCATED)									EXTEND WIRING AS REQUIRED
EF-1	EXHAUST FAN, HIGH SCHOOL	120V-1PH	250		20/1	G	N/A	O/L SWITCH	3 # 12, 3/4" C	PROVIDE NEW 20'1 BREAKER IN EXISTING PANEL
EF-2	EXHAUST FAN, HIGH SCHOOL	120V-1PH	250		20/1	PJ	N/A	O/L SWITCH	3 # 12, 3/4" C	PROVIDE NEW 20'1 BREAKER IN EXISTING PANEL

- NOTES:
- 1) PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE, THE E.C. IS FULLY RESPONSIBLE FOR OBTAINING COPIES OF SHOP DRAWINGS FROM THE CONTRACTOR OR PARTY (INCLUDING OWNER, WHERE APPLICABLE) FURNISHING THE EQUIPMENT AND FOR COORDINATING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE E.C. IS SOLELY RESPONSIBLE FOR THIS COORDINATION AND IS RESPONSIBLE FOR ALL COSTS WHICH MAY RESULT FROM FAILING TO FULLY COORDINATE.
 - 2) UTILIZE EXISTING BREAKER AND HOUE RUN SERVING HAND DRYER. REMOVE EXISTING WIRING BACK ABOVE ACOUSTIC CEILING AND EXTEND NEW WIRING FOR NEW HAND DRYER RECESSED IN WALL TO PROPOSED NEW HAND DRYER LOCATION

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TEITELMAN ELECTRICAL NOTES & DETAILS
ME-3

THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF GARIBOLDI ARCHITECTS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.