

POLICE DEPARTMENT RENOVATIONS AT THE MUNICIPAL BUILDING

BLOCK 29, LOTS 7-10 & 17-23
#229 TRENTON AVENUE

BOROUGH OF BARRINGTON
CAMDEN COUNTY, NEW JERSEY

General Notes:

1. Zoning district: C-1 (Central Commercial District)
2. Use group classification: I-3
3. 2018 International Building Code, New Jersey Addition, construction type classification: 3B-Unprotected
4. The Contractor shall submit and obtain a construction permit along with these plans and any plumbing and electrical plans prepared by the respective licensed profession, if required, by the Borough Subcode Official(s) (at the Contractor's cost). All permit fees shall be waived by the Borough.
5. The scope of responsibility of the engineer is limited to the work indicated on these drawings, and the engineer assumes no responsibility or liability for any other work on the site that is not indicated on these drawings.
6. Contractor shall verify all conditions in the field and immediately notify the engineer of any discrepancies found between actual field conditions and those shown on these drawings prior to proceeding with any work in such area.
7. Security: provide and maintain temporary barriers and other devices where appropriate or required by regulations to maintain general safety and to prevent public entry to the work area and to secure the work area from unauthorized entry. (No Specific Payment)
8. Shoring and bracing: provide adequate and appropriate temporary shoring and bracing as required to prevent structural failure of both existing and new building components during the entire course of the project. (No Specific Payment)
9. At the end of each work day, the contractor shall collect all rubbish, demolition and construction debris, and dispose of it in a dumpster or dump truck provided by the contractor for such purpose; when such dumpster or truck is full, the contractor shall have it removed and emptied in an appropriate and legal manner including disposal fees. Dumpster or dump truck shall be covered with tarp to secure at the end of each work day to prevent access. (No Specific Payment)
10. All materials and equipment shall be installed in accordance with manufacturer's instructions and recommendations.
11. All concrete shall be Class 'B'.

All reinforced concrete shall be furnished and installed in accordance with the current ACTI-318 "Building Code Requirements" for reinforced concrete.

Reinforcing steel shall conform to ASTM-A615 grade 60. Welded wire fabric shall be 6x6-w1.4 x w1.4 conforming to ASTM A-185.

12. Concrete masonry unit (cmu) walls shall be hollow core load-bearing units (unless otherwise indicated on the drawings) conforming to ASTM C90; solid cmu shall conform to C145. All cmu walls to have truss type galvanized horizontal joint reinforcing, continuous in alternate courses.

Mortar shall meet requirements of ASTM C270 and as specified herein. Type m mortar shall be used for exterior walls below grade; type s mortar shall be used for walls and partitions above grade.

13. All construction shall be in strict conformance with the following codes/regulations, current edition and NJ editions:
 - NJ State Uniform Construction Code
 - NJ Rehabilitation Subcode S-23-6
 - 2020 National Electrical Code
 - NJ Uniform Fire Protection Subcode
 - ICC/ANSI A117.1-2009
 - 2018 IRC NJ Edition
 - 2018 IBC NJ Edition
 - 2021 National Standard Plumbing Code
 - 2021 International Mechanical Code
 - 2021 International Fuel Gas Code
 - 2021 International Energy Code
 - All Local Regulations and Ordinances
 - NJ Barrier Free Subcode
 - Federal Americans with Disabilities Act
 - NJ Department of Corrections NJSA Section 10A:A-34-2.5 Cell Specifications

14. The security walls, windows and doors shall be constructed to meet or exceed ballistic U.L. level 3.

15. The detention cell and corridor shall be constructed in strict conformance with N.J.S.A. Chapter 34, N.J. Municipal Detention Facilities, current edition, Sections 10A:34-2.5 Cell Construction Specifications and 10A:34-2.6 Cell Equipment, Security Level 1.

16. The Contractor shall not be permitted to work on Saturdays, Sundays or holidays.

17. The Contractor's hours of operation shall be from 8:30 A.M. to 4:30 P.M.

18. The Contractor shall coordinate all construction activities with Chief Minardi and Lt. Pawling and/or the Borough Engineer.

19. The Contractor shall be solely responsible for performing all measurements and verifying all dimensions necessary prior to ordering any materials.

20. The Contractor shall coordinate his work with the Borough's I.T. Contractor (E3 IT Services) for the cabling/server room improvements and full access control for the 8 doors indicated on the Main Floor Improvement Plan with Proximity Key Fob (by others).

Utility Companies:

Water: New Jersey American Water Company
204 Carriage Lane
Delran, NJ 08075
ATTN: Mr. John Graham, Jr.
(856)-764-6920

**Sewer/
Public Works
Department:** Barrington Borough Sewer Department
100 Reamer Drive
Barrington, NJ 08007
ATTN: Mr. Michael Ciocco, C.P.W.M., Superintendent of Public Works
(856)-547-2486

C.C.M.U.A.: Camden County Municipal Utilities Authority
1645 Ferry Avenue
Camden, NJ 08104
ATTN: Mr. Scott Schreiber, Executive Director
(856)-583-1261

Gas: P.S.E.G. Services Corporation
Gas Distribution Department
535 Nicholson Road
Audubon, NJ 08106
ATTN: Mr. Ryan Morze
(609)-381-0530

Electric: P.S.E.G. Services Corporation
Construction Inquiry Center
410 Route 130 South
Bordentown, NJ 08505
1-800-832-0076

Cable TV: Comcast Cable Communications, Inc.
1250 Haddonfield-Berlin Road
Post Office Box 5025
Cherry Hill NJ 08034
ATTN: Mr. Wyatt Parrish
(484)-368-4391

Telephone: Verizon
10 Tansboro Road
Berlin NJ 08009
ATTN: Mr. Ed Gasko
(856)-306-8592

Index of Sheets

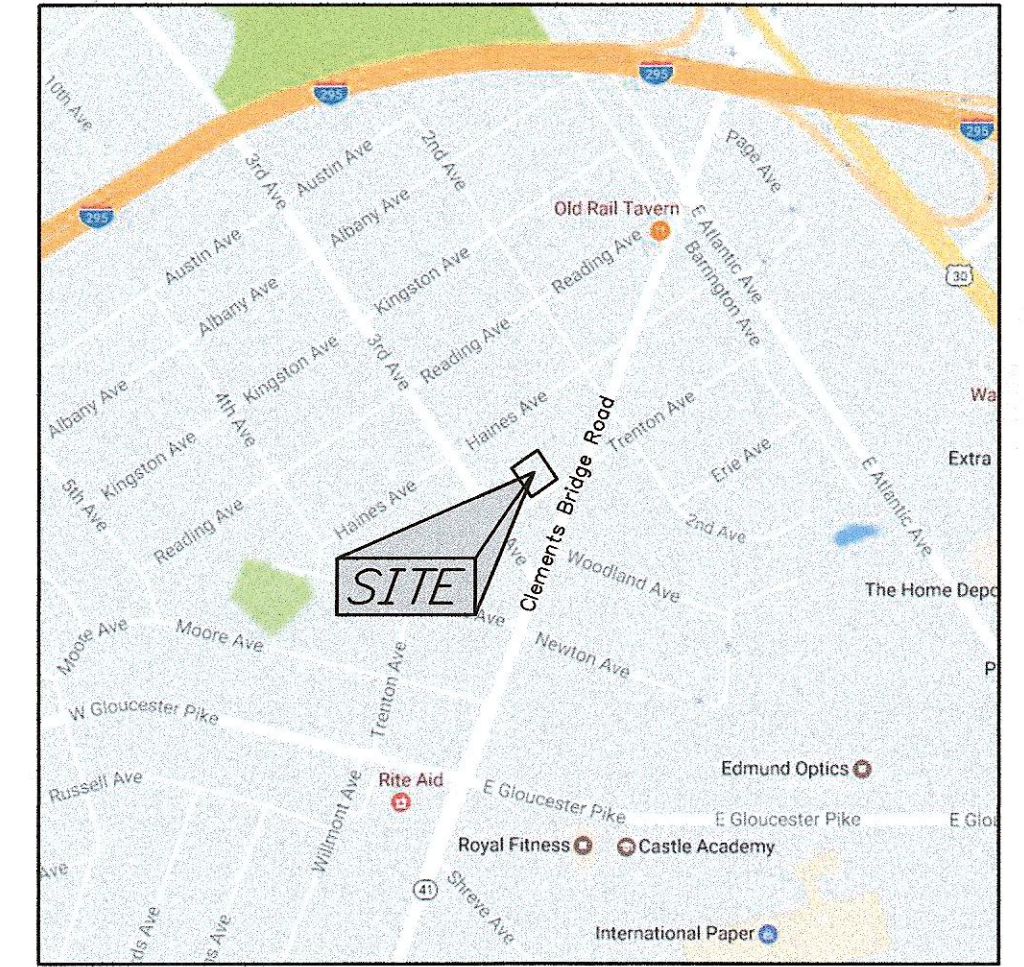
Sheet Number	Sheet Title
1	Cover Sheet
2	Demolition Plan
3	Main Floor Improvement Plan
4	Restrooms Floor Plan
5	Detention Cell Demolition Plan
6	Detention Cell Improvement Plan
7	Dispatch Office Security Wall Improvements
8	Processing Room Security Wall Improvements
9	Electrical Plan
10	Plumbing Plan
11	Sections and Details

Construction Schedule

The following construction schedule is anticipated:

- Award of Contract: October 10, 2023
- Preconstruction Meeting: October 24, 2023
- Shop Drawings/Materials: 49 Calendar Days or 7 Weeks
- Commence with Construction: December 20, 2023
- Complete Construction: April 17, 2024

The construction schedule has been developed to ensure the completion of the project in a timely manner. However, it is understood that due to unforeseen circumstances (i.e. material/equipment lead times), the construction schedule is subject to change.



Key Map
SCALE: 1" = 800'
TAKEN FROM GOOGLE MAPS

List of Quantities:

Payment Items:

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	DEMOLITION, COMPLETE	L.S.	L.S.
2	REMOVE ASBESTOS CONTAINING MATERIAL (ACM), COMPLETE	S.F.	700
3	RECREATION CENTER CONVERSION IMPROVEMENTS, COMPLETE	L.S.	L.S.
4	PROCESSING ROOM IMPROVEMENTS, COMPLETE	L.S.	L.S.
5	DETENTION CELL AND CORRIDOR IMPROVEMENTS, COMPLETE	L.S.	L.S.
6	WOMEN'S LOCKER ROOM IMPROVEMENTS, COMPLETE	L.S.	L.S.
7	MEN'S LOCKER ROOM IMPROVEMENTS, COMPLETE	L.S.	L.S.
8	DETECTIVE'S OFFICE IMPROVEMENTS, COMPLETE	L.S.	L.S.
9	EVIDENCE/INTERVIEW ROOM IMPROVEMENTS, COMPLETE	L.S.	L.S.
10	SERGEANT'S OFFICE IMPROVEMENTS, COMPLETE	L.S.	L.S.
11	PARKING AREA IMPROVEMENTS, COMPLETE	L.S.	L.S.

1.	08/30/23	GENERAL REVISIONS	T.D.	G.B.F.
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Cover Sheet				
Police Department Renovations At The Municipal Building 229 Trenton Avenue				
Borough of Barrington Camden County, New Jersey				
DATE: 05/15/23	DRAWN BY: T.D.	CHKD. BY:	SCALE: AS NOTED	
PROJECT No. 11-411BR1116	FIELD BOOK/PAGE:	SHEET No. 1 OF 11		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		P.A.P.E. No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #246A28041300		phone: (856) 787-8111 fax: (856) 783-1091 www.keyengineers.com		
REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.		DATE 8/31/23		

Demolition Notes:

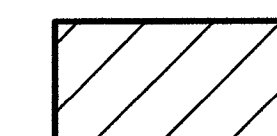
1. ALL DEMOLITION MATERIALS SHALL BE PROPERLY AND LAWFULLY DISPOSED OF AT A LAWFUL FACILITY INCLUDING TRANSPORTATION AND DISPOSAL FEES. ALSO, ANY RECYCLABLE MATERIALS SHALL BE DISPOSED OF AT A RECYCLING FACILITY, INCLUDING TRANSPORTATION AND DISPOSAL FEES. ALL DISPOSITIONS SHALL BE REPORTED TO THE BOURNEMOUTH CLERK AND/OR RECYCLING COORDINATOR.
2. ALL ASBESTOS CONTAINING MATERIAL (ACM) SHALL BE LAWFULLY REMOVED, CONTAINED AND DISPOSED OF AT A LAWFUL FACILITY.
3. ALL ITEMS SCHEDULED TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND STORED UNTIL THEY ARE RELOCATED. ANY ITEMS THAT ARE DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS HIS EXPENSE.
4. EXISTING TOILET, FLOOR, URINAL AND SINK DRAIN PIPING SHALL BE FIELD LOCATED BY THE CONTRACTOR AT HIS EXPENSE. THE CONCRETE FLOOR AREA OVER THE EXISTING DRAIN PIPING SHALL BE SAWCUT AND REMOVED BY THE CONTRACTOR AND ALL EXISTING DRAIN PIPING SHALL BE REMOVED AND PROPERLY TERMINATED (CAPPED) AT THE MAIN SERVICE LATERAL.
5. EXISTING DOMESTIC WATER PIPING FOR TOILETS, SINKS AND URINALS SHALL BE REMOVED FROM THE FIXTURES AND SHALL BE PROPERLY TERMINATED (CAPPED) ABOVE THE CEILING LINE.
6. EXISTING WOOD FRAME WALLS TO BE REMOVED SHALL BE DEMOLISHED FROM THE FLOOR TO THE CEILING LINE NEATLY TERMINATED AT EXISTING WALL LOCATIONS THAT WILL REMAIN.

Wall Legend:

KEYED TO THIS SHEET ONLY



WOOD FRAME OR MASONRY WALL TO
BE CONSTRUCTED IN DOOR OPENING



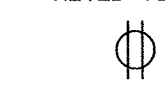
REMOVE WALLS AS NECESSARY
TO CREATE OPENING OR
REMOVE WINDOW AND
CONSTRUCT WOOD FRAME WALL



REMOVE ACM

Electrical Legend:

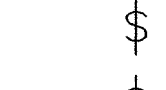
KEYED TO THIS SHEET ONLY



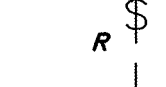
EXISTING 20 AMP RECEPTACLE



EXISTING 20 AMP RECEPTACLE TO BE RELOCATED



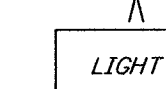
EXISTING SWITCH

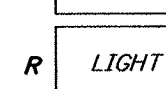


EXISTING SWITCH TO BE RELOCATED



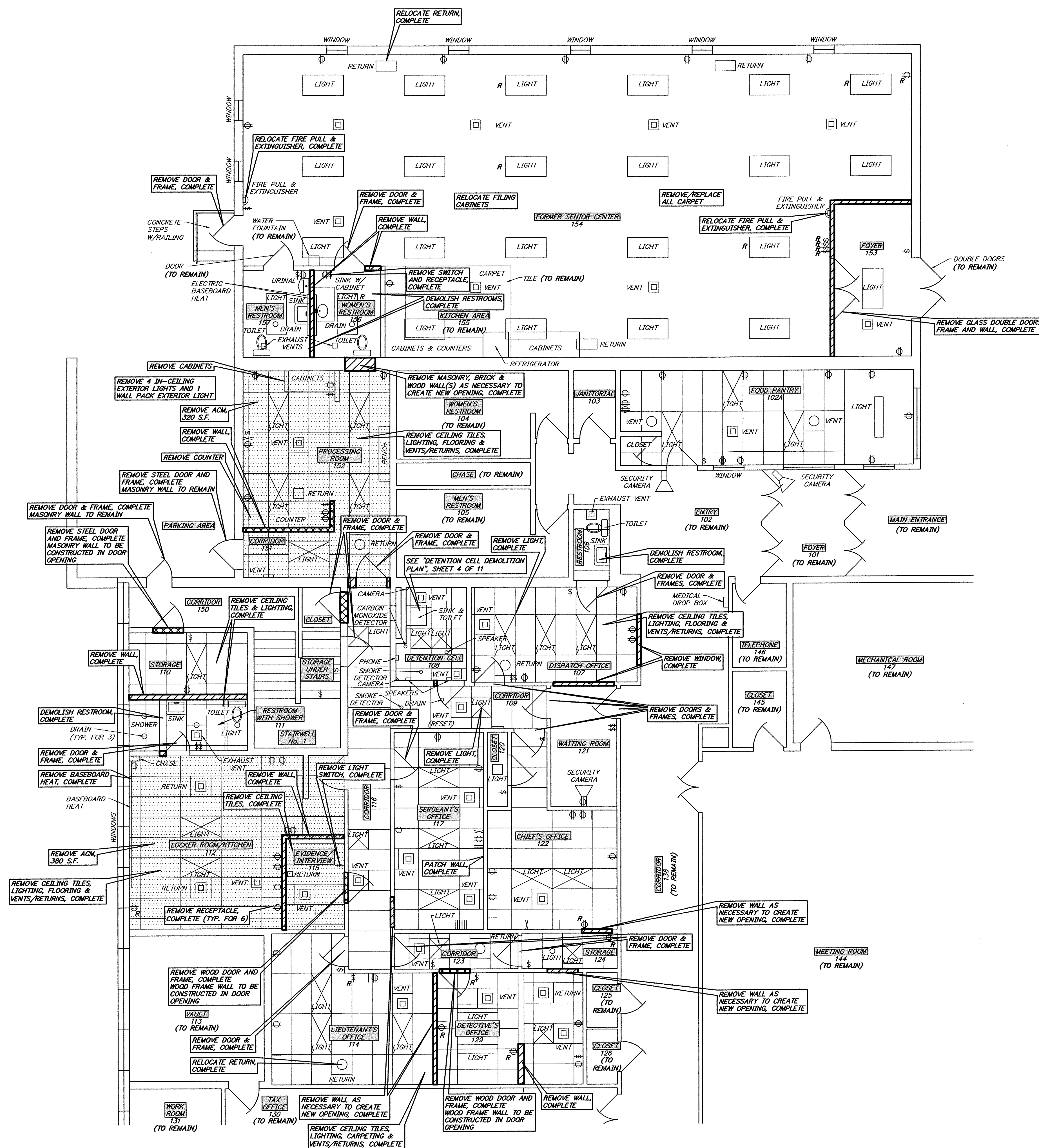
ETHERNET JACK





1

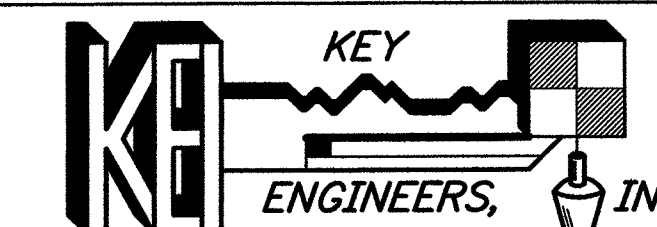




Police Department Improvements
Municipal Building/Complex Main Floor

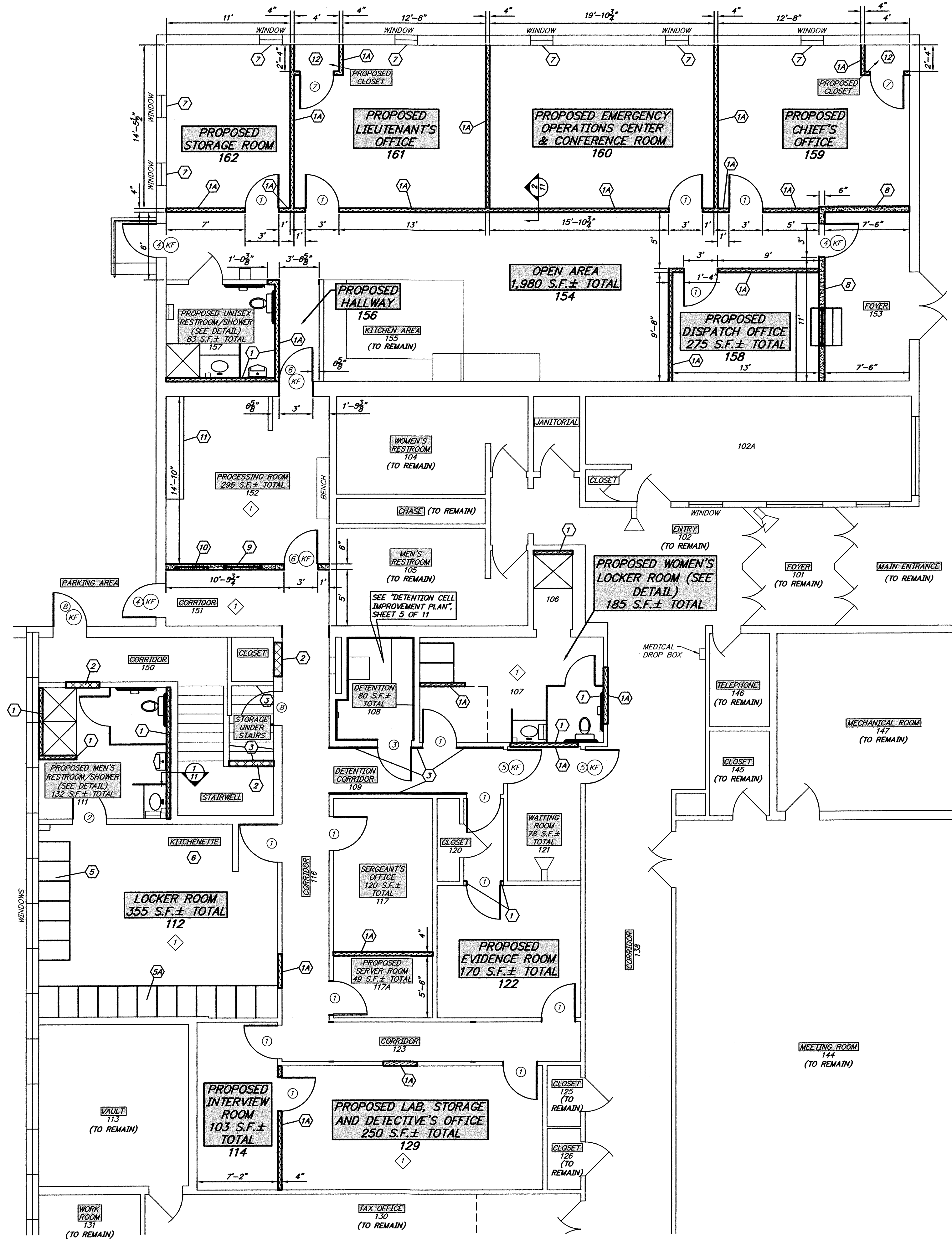
scale: $3/16" = 1'$

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80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
phone: (856) 767-6111
fax: (856) 753-1099
www.kayengineers.com

DATE 8/30/2.



**Police Department Improvements
Municipal Building/Complex Main Floor**
scale: 3/16" = 1'

Hardware Schedule:

- DOOR HARDWARE OR EQUIVALENT:
HINGE - (3) 4 1/2" x 4 1/2" STANDARD WEIGHT HINGES SUPPLIED WITH DOOR
LOCKSET - YALE 8800, AU LEVER, (SATIN CHROME FINISH) OR 8891(FL), FAIL SAFE, 12v AU LEVER, (SATIN CHROME FINISH) WHERE KEY FOB KEYLESS ENTRY IS PROPOSED.
EXIT DEVICES - YALE 7130-KS(F), (SATIN CHROME FINISH) WITH 8891(FL), FAIL SAFE, 12v AU LEVER, (SATIN CHROME FINISH) WHERE KEY FOB KEYLESS ENTRY IS PROPOSED.
FUNCTION - ENTRY ALL KEYS ALIKE
FINISH - SATIN CHROME PLATE
CLOSER - YALE 3301 (SATIN CHROME FINISH)
BUMPER - 1 WALL BUMPER
THRESHOLD - PEMKO 171A (EXTERIOR EXIT DOORS)
JAMB/HEAD WEATHERSTRIP - PEMKO 303AS W/53 (EXTERIOR EXIT DOORS)
DOOR SWEEP - PEMKO 18062AP (EXTERIOR EXIT DOORS)
ALL DOOR HARDWARE SHALL BE A.D.A. AND NEW JERSEY BARRIER-FREE COMPLIANT

Door & Frame Notes:

- FRAMES TO BE MIN. 12 GA., GALVANIZED STEEL, W/WELDED CORNERS, 5 3/4" DEPTH, 2" JAMB FACE, 4" HEAD FACE; PROVIDE MIN. 3 MASONRY JAMB ANCHORS PER JAMB; REINFORCE ALL AREAS TO RECEIVE HARDWARE; PROVIDE MORTAR BOXES, WELDED TO FRAMES AT ALL CUTOUTS (FRAMES TO BE FILLED SOLID WITH MORTAR); PROVIDE THE APPROPRIATE CONCRETE LINELINE WHERE NECESSARY.
- SECURITY DOORS TO BE FLUSH, HOLLOW METAL, SECURITY TYPE, CURRIES 847 SERIES W/ LITE (OR EQUIVALENT) UL LEVEL 3, CORES TO HAVE VERTICAL 18 GAUGE STEEL RIBS @ MAX. 6" OC. AND FILLED WITH MINERAL FIBER OR FIBERGLASS INSULATION.
- STANDARD DOORS TO BE FLUSH, HOLLOW METAL, CURRIES 747 SERIES W/ LITE (OR EQUIVALENT), CORES TO HAVE VERTICAL 22 GAUGE STEEL RIBS @ MAX. 6" OC. AND FILLED WITH MINERAL FIBER OR FIBERGLASS INSULATION.
- ALL DOORS AND FRAMES SHALL BE 3 HOUR FIRE RATED.
- DOORS AND FRAMES TO BE FACTORY PRIMED; FIELD APPLY FINISH PAINT: 2 COATS OF SHERWIN-WILLIAMS GLOSS EXTERIOR ACRYLIC LATEX A-100 AND SEMI-GLOSS INTERIOR ACRYLIC LATEX SUPER PAINT OR APPROVED EQUIVALENT.

NOTE: ALL ITEMS SPECIFIED ARE OR APPROVED EQUIVALENT.

NO.	SIZE			MATERIAL	GAUGE	FIRE RATING	HARDWARE SET NO.	REMARKS
	WIDTH	HEIGHT	THICKNESS					
1	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	14 GAUGE	-	1	CURRIES 747 SERIES OR EQUIVALENT
2	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	14 GAUGE	-	1	CURRIES 747 SERIES W/20"x20" VENT PANEL OR EQUIVALENT
3	3'-0"	6'-8"	2"	HOLLOW METAL	12 GAUGE	-	FACTORY	SECURITY LEVEL 1 W/ TRUSSBILT FP-G3 CUFF PORT/FOOD PASS AND FOLGER ADAM 17 LATCH
4	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	UL LEVEL 3	-	1 W/ EXIT DEVICE	CURRIES 847 SERIES WITH 6"x36" LITE, UL LEVEL 3 OR EQUIVALENT
5	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	14 GAUGE	-	1 W/ EXIT DEVICE	CURRIES 747 SERIES WITH 6"x36" LITE OR EQUIVALENT
6	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	UL LEVEL 3	-	1	CURRIES 847 SERIES WITH 6"x36" LITE, UL LEVEL 3 OR EQUIVALENT
7	3'-0"	6'-8"	1 3/8"	COMPOSITE	-	-	1	MANUFACTURED BY JELD-WEN OR EQUIVALENT
8	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	UL LEVEL 3	-	1	CURRIES 847 SERIES, UL LEVEL 3 OR EQUIVALENT
(KF) PROXIMITY KEY FOB (BY OTHERS)								

Acoustical Suspended Ceiling System Schedule:

- ALL CEILING TILES AND GRID WHERE INDICATED SHALL BE REPLACED WITH:
ACOUSTICAL PANEL STANDARD - FS SS-S-118
TILES - ACOUSTIC MINERAL FIBER CEILING TILE, CIRRUS OPEN PLAN (4'x2' PANELS) BY ARMSTRONG MODEL NO. 556 OR EQUIVALENT
METAL DIRECT-HUNG SUSPENSION SYSTEMS - DIRECT-HUNG SYSTEMS, ROLLED-FORM PREFINISHED COLD-ROLLED STEEL SHEET, WITH HANGER WIRE, ATTACHMENT DEVICES AND EDGE MOLDINGS, AND TRIM
NEW ACOUSTICAL SUSPENDED CEILING TO BE CONSTRUCTED WITHIN EXISTING AND NEW PROPOSED WALL LINES.

Flooring:

EXISTING TILED AREA OR PROPOSED RESTROOM(S), LOCKER ROOM(S) & PROCESSING ROOM(CORRIDOR(S))
EXCELON IMPERIAL TEXTURE V.C.T. 12"x12" COMMERCIAL TILES WITH VINYL WALL BASE BY ARMSTRONG OR EQUIVALENT. STANDARD COLOR AND TEXTURE TO BE SELECTED BY BOROUGH.
EXISTING CARPETED AREAS
COMMERCIAL GRADE NYLON CARPET WITH CARPET COVE WALL BASE BY MOHAWK OR SHAW OR EQUIVALENT. STYLE AND COLOR SIMILAR TO THE EXISTING TO BE SELECTED BY THE BOROUGH.

Wall Legend:

- KEYED TO THIS SHEET ONLY
- PROPOSED 2"x4" WOOD FRAME WALL
 - PROPOSED C.M.U. WALL
 - PROPOSED 2"x6" WOOD FRAME WALL W/UL LEVEL 3 AND FIRING

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ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	A.C.M.	NOTES
		V.C.T. 12"x12" COMMERCIAL	CONCRETE	PAINTED CONCRETE	VINYL WALL BASE	CARPET COVE WALL BASE	PAINTED STEEL PLATE TRUSS WALLS	PAINTED GYPSUM BOARD		
101	FOYER									TO REMAIN
102	ENTRY									TO REMAIN
102A	FOOD PANTRY									TO REMAIN
103	JANITORIAL									TO REMAIN
104	WOMEN'S RESTROOM									TO REMAIN
105	MEN'S RESTROOM									TO REMAIN
106	RESTROOM/WOMEN'S									INTERIOR OF ROOM TO BE COMPLETELY REMODELED
107	DISPATCH OFFICE/WOMEN'S LOCKER ROOM									INTERIOR OF ROOM TO BE COMPLETELY REMODELED, INCLUDES PAINTING THE EXTERIOR WALLS WHERE THE WINDOWS ARE REMOVED IN ROOM NO.'S 121 & 138
108	DETENTION CELL									TO BE COMPLETELY REMODELED TO PROVIDE COMPLIANCE
109	CORRIDOR									TO BE COMPLETELY REMODELED TO PROVIDE COMPLIANCE
110	STORAGE									TO BE DEMOLISHED AND INCORPORATED INTO ROOM NO. 111
111	RESTROOM WITH SHOWERS									
112	LOCKER ROOM/KITCHEN									
113	VAULT									
114	LIEUTENANT'S OFFICE/INTERVIEW ROOM									TO REMAIN
115	EVIDENCE/INTERVIEW									TO BE REDUCED IN SIZE W/PROPOSED WALL
116	CORRIDOR									TO BE COMPLETELY DEMOLISHED AND INCORPORATED INTO ROOM NO. 112
117	SERGEANT'S OFFICE									ENTIRE CORRIDOR TO BE REPAINTED
117A	SERVER ROOM									INTERIOR OF ROOM TO BE COMPLETELY REMODELED
120	CLOSET									INTERIOR OF ROOM TO BE COMPLETELY REMODELED
121	WAITING ROOM									TO REMAIN
122	CHIEF'S OFFICE/EVIDENCE ROOM									
123	CORRIDOR									ENTIRE CORRIDOR TO BE REPAINTED
124	STORAGE									TO BE DEMOLISHED
125	CLOSET									TO REMAIN
126	CLOSET									TO REMAIN
129	DETECTIVE'S OFFICE									TO REMAIN
150	CORRIDOR									ENTIRE CORRIDOR TO BE COMPLETELY REMODELED
151	CORRIDOR									ENTIRE ROOM TO BE COMPLETELY REMODELED
152	PROCESSING ROOM									TO REMAIN
153	FOYER									TO REMAIN
154	FORMER SENIOR CENTER/OPEN AREA									KITCHEN AND FLOOR TO REMAIN AND ENTIRE CEILING TO BE REPAINTED
155	KITCHEN AREA									KITCHEN AND FLOOR TO REMAIN
156	WOMEN'S RESTROOM/HALLWAY									RESTROOM TO BE DEMOLISHED AND CONVERTED TO HALLWAY
157	MEN'S RESTROOM/UNISEX RESTROOM									RESTROOM TO BE DEMOLISHED AND CONVERTED TO A UNISEX RESTROOM
158	DISPATCH OFFICE									
159	CHIEF'S OFFICE									
160	E.O.C./CONFERENCE ROOM									
161	LIEUTENANT'S OFFICE									
162	STORAGE ROOM									

Legend:

- KEYED TO THIS DRAWING ONLY
- CONSTRUCT 2"x4" WOOD FRAME WALL W/R-13 INSULATION WITH PRIMED AND PAINTED 1/2" THICK DRYWALL ONE OR BOTH SIDES
 - CONSTRUCT 2"x4" WOOD FRAME WALL W/R-13 INSULATION WITH PRIMED AND PAINTED 5/8" THICK DRYWALL ONE OR BOTH SIDES
 - CONSTRUCT C.M.U. WALL
 - CONSTRUCT 12 GAUGE STEEL PLATE TRUSSWALLS AND TRUSSECK CEILING, COMPLETE, MANUFACTURED BY TRUSSBILT, LLC OR EQUIVALENT
 - TOILET/URINAL PARTITION SYSTEM W/FLOOR TO CEILING PILASTERS TO BE MANUFACTURED BY GENERAL PARTITION, HIGH DENSITY POLYMER 60 SERIES & TBS-7 OVER GALVANIZED STEEL FLOOR MOUNT WITH OVERHEAD BRACE AND COMPONENTS OR EQUIVALENT. STANDARD COLOR AND TEXTURE TO BE SELECTED BY OWNER.
 - PERSONAL STORAGE LOCKER MODEL FPPL-242461 BY FASCO OR EQUIVALENT
 - PERSONAL STORAGE LOCKER WITH BENCH MODEL FPPL-242478 BY FASCO OR EQUIVALENT
 - MALVERN ADA SINK BASE KITCHEN CABINET, MODEL NO. BSH36-MGR (HERON GRAY) & MALVERN WALL KITCHEN CABINET, MODEL NO. W362415-MGR BY HAMPTON BAY OR EQUIVALENT WITH WILSONART STRAIGHT LAMINATE COUNTERTOP WITH WATERFALL EDGE, BACKSPLASH, SIDE SPLASH AND END CAP, MODEL NO. 01312010495008 (PRALINE ANTICO) BY HAMPTON BAY OR EQUIVALENT.
 - INSTALL TINTED 3M ULTRA SERIES SAFETY FILM OR EQUIVALENT
 - CONSTRUCT 2" x 6" WOOD STUD WALL, 12" ON CENTER W/R-19 BATT INSULATION FOR SOUND REDUCTION PURPOSES, 5/8" THICK GYPSUM BOARD (BOTH SIDES), BULLET RESISTANT SHIELD (UL LEVEL 3) WITH JOINT REINFORCEMENT AND FIRING (INSTALL BETWEEN STUDS), BOLT IN BULLET RESISTANT STEEL FRAME (UL LEVEL 3), BULLET RESISTANT GLAZING WINDOW (UL LEVEL 3), COUNTER WITH STAINLESS STEEL DECK TRAY AND SPEAK THRU DOWEL (SEE SHEET 7 OF 11)
 - CONSTRUCT 2" x 6" WOOD STUD WALL, 12" ON CENTER W/R-19 BATT INSULATION FOR SOUND REDUCTION PURPOSES, 1/2" THICK GYPSUM BOARD (BOTH SIDES), BULLET RESISTANT SHIELD (UL LEVEL 3) WITH JOINT REINFORCEMENT AND FIRING (INSTALL BETWEEN STUDS), BOLT IN BULLET RESISTANT STEEL FRAME (UL LEVEL 3), BULLET RESISTANT GLAZING WINDOW (UL LEVEL 3) (SEE SHEET 8 OF 11)
 - HEAVY DUTY RECESSED 4 PISTOL LOCKER MODEL NO. FL-708-4 BY FASCO OR EQUIVALENT
 - MODULAR CABINET SYSTEM, MODEL NO. GS10806-2W BY HUSKY OR EQUIVALENT
 - IMPRESSIONS NARROW - 16" TOWER WHITE WOOD CLOSET SYSTEM, MODEL NO. 558349 BY CLOSET MAID OR EQUIVALENT

1. 08/30/23
REV. DATE: GENERAL REVISIONS
DESCRIPTION
T.D. G.B.F.
DRWN. CHKD.

Main Floor Improvement Plan

Police Department Renovations
At The Municipal Building
229 Trenton Avenue

Borough of Barrington
Camden County, New Jersey

DATE: 05/15/23 DRAWN BY: T.D. CHKD. BY: SCALE: AS NOTED
PROJECT NO. 11-411BTR116 FIELD BOOK/PAGE: SHEET NO. 3 OF 11

GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
NJPE No. 32853 PA.PE No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076

KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
phone: (609) 767-2111
fax: (609) 763-1081
www.keyengineers.com
CERTIFICATE OF AUTHORIZATION #240A28041300

DATE: 8/3/23

Legend:

KEYED TO THIS DRAWING ONLY

- ① CONSTRUCT 2"x4" WOOD FRAME WALL W/R-13 INSULATION WITH PRIMED AND PAINTED 1/2" THICK DRYWALL ONE OR BOTH SIDES
- ①A CONSTRUCT 2"x4" WOOD FRAME WALL W/R-13 INSULATION WITH PRIMED AND PAINTED 5/8" THICK DRYWALL ONE OR BOTH SIDES
- ② CONSTRUCT C.M.U. WALL
- ④ TOILET/URINAL PARTITION SYSTEM W/FLOOR TO CEILING PILASTERS TO BE MANUFACTURED BY GENERAL PARTITION, HIGH DENSITY POLYMER 60 SERIES & FBS-7 OVER GALVANIZED STEEL FLOOR MOUNT WITH OVERHEAD BRACE AND COMPONENTS OR EQUIVALENT. STANDARD COLOR AND TEXTURE TO BE SELECTED BY OWNER.
- ⑤ PERSONAL STORAGE LOCKER MODEL FPPL-242461 BY FASCO OR EQUIVALENT

RESTROOM ACCESSORY SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	MODEL NUMBER
①	GRAB BAR	BOBRICK OR EQ.	B 6806 x 36"
②	GRAB BAR	BOBRICK OR EQ.	B 6806 x 42"
③	TOILET TISSUE DISPENSER	BOBRICK OR EQ.	B-2888
④	FEM. SAN. NAP. DISPOSAL	BOBRICK OR EQ.	B-270
⑤	SOAP DISPENSER	BOBRICK OR EQ.	B-4112
⑥	MIRROR	BOBRICK OR EQ.	B-294-1830, 18"x30"
⑦	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK OR EQ.	B-3944 (RECESSED)
⑧	GRAB BAR	BOBRICK OR EQ.	B 6806 x 18" MIN.

1. NOTES:
ALL FIXTURES AND ACCESSORIES TO BE MOUNTED IN ACCORDANCE WITH CURRENT N.J. BARRIER FREE SUBCODE AND FEDERAL AMERICANS WITH DISABILITIES ACT REQUIREMENTS
2. STANDARD FRP, PEBBLED SURFACE 3/32" THICK AS MANUFACTURED BY MARLITE OR EQUIVALENT SHALL BE INSTALLED ON ALL BATHROOM WALLS. COLOR TO BE SELECTED BY THE BOROUGH.
3. SIGNS: PROVIDE WALL MOUNTED "MEN", "WOMEN" AND "UNISEX" IDENTIFICATION SIGNS MEETING REQUIREMENTS OF NJ BARRIER FREE SUBCODE AND FEDERAL A.D.A., INCLUDING LETTERING, FIGURE SYMBOLS, H.C. SYMBOLS, AND BRAILLE; CONSTRUCTION TO BE MATTE FINISH TRANSPARENT ACRYLIC FACE PANEL OVER TRANSPARENT ACRYLIC BACK PANEL WITH MIN. 4" SUBSURFACE COATS OF ACRYLIC ENAMEL (2 ON FACE PAN. & 2 ON BACK PAN.; HELIOTON LETTERS AND SYMBOLS TO BE MACHINE CUT FROM MATTE FINISH OPAQUE ACRYLIC, CHEMICALLY BONDED TO FACE; COLORS SHALL BE BLUE WITH WHITE CORE; MOUNT TO WALL ADJACENT TO THE DOOR WITH VANDAL RESISTANT SCREWS.

Acoustical Suspended Ceiling System Schedule:

- ① ALL CEILING TILES AND GRID WHERE INDICATED SHALL BE REPLACED WITH:
ACOUSTICAL PANEL STANDARD - FS SS-5-118
TILES - ACOUSTIC MINERAL FIBER CEILING TILE, CIRRUS OPEN PLAN (4'X2' PANELS) BY ARMSTRONG MODEL NO. 556 OR EQUIVALENT
METAL DIRECT-HUNG SUSPENSION SYSTEMS - DIRECT-HUNG SYSTEMS, ROLLED-FORMED FORM PREFINISHED COLD-ROLLED STEEL SHEET, WITH HANGER WIRE, ATTACHMENT DEVICES AND EDGE MOLDINGS AND TRIM
NEW ACOUSTICAL SUSPENDED CEILING TO BE CONSTRUCTED WITHIN EXISTING AND NEW PROPOSED WALL LINES.

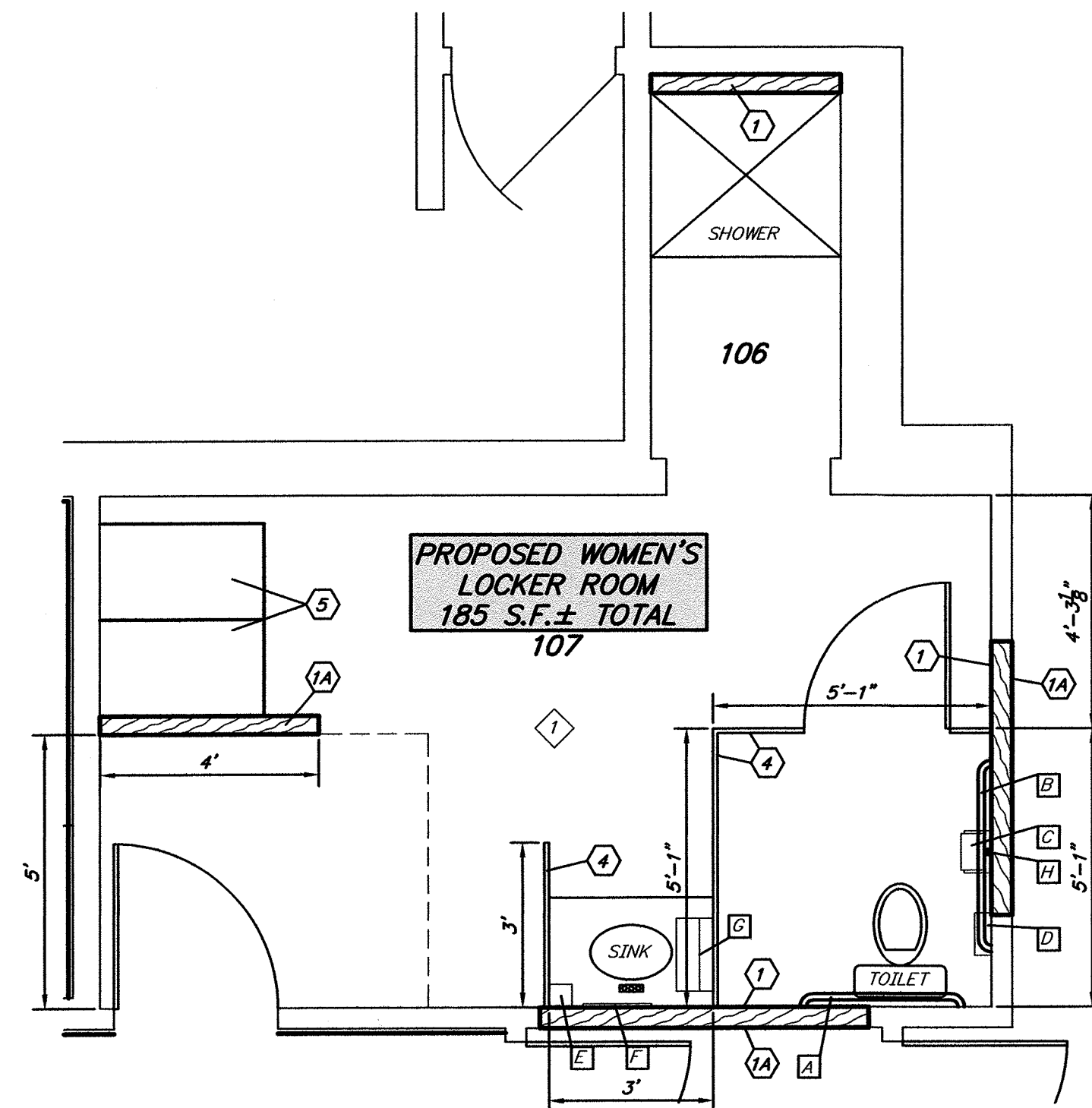
Flooring:

EXISTING TILED AREA OR PROPOSED RESTROOM(S), LOCKER ROOMS & PROCESSING ROOM/CORRIDOR(S)
EXCELON IMPERIAL TEXTURE V.C.F. 12"X12" COMMERCIAL TILES WITH VINYL WALL BASE BY ARMSTRONG OR EQUIVALENT. STANDARD COLOR AND TEXTURE TO BE SELECTED BY BOROUGH.

Wall Legend:

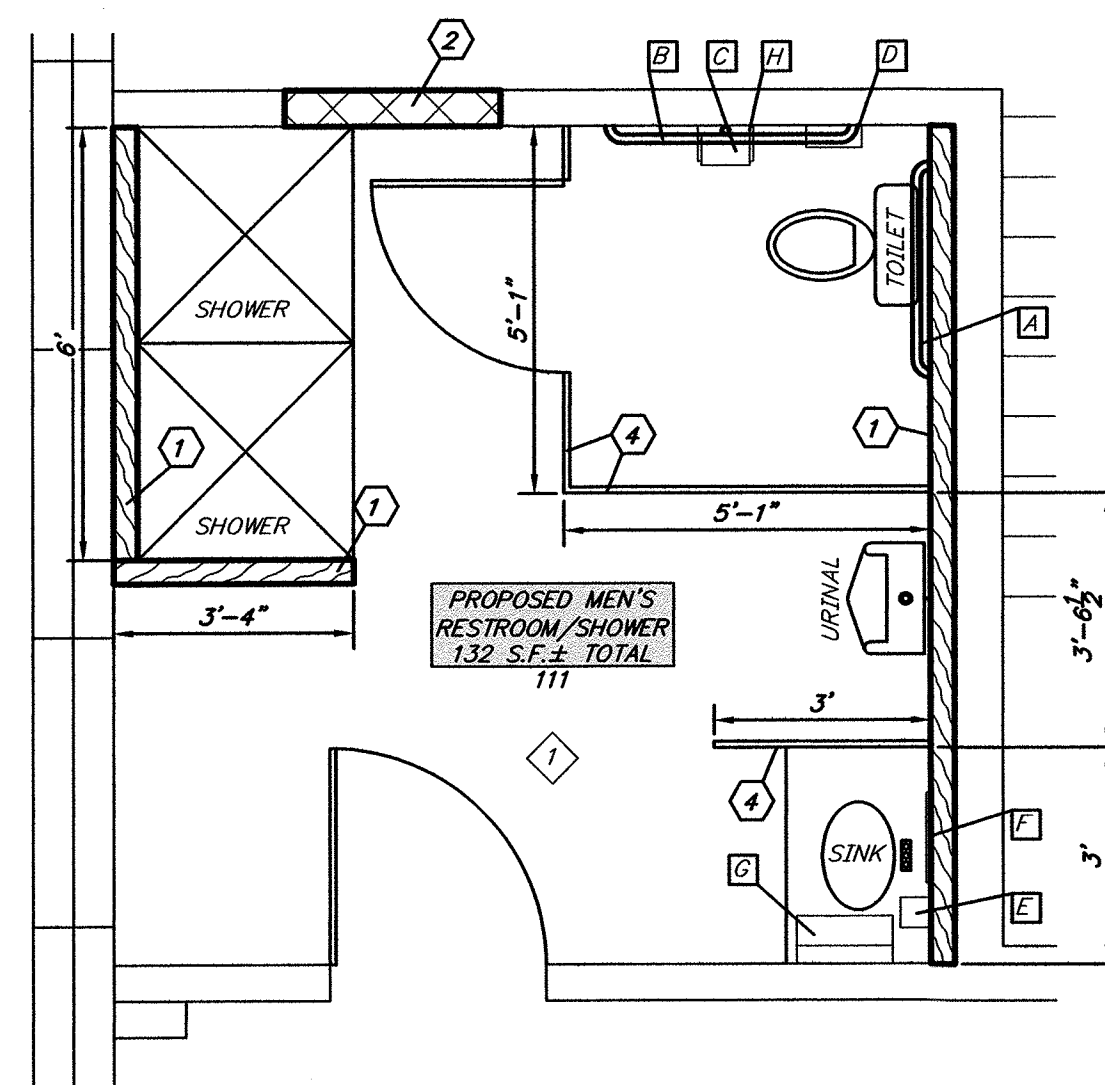
KEYED TO THIS SHEET ONLY

- ① PROPOSED 2"x4" WOOD FRAME WALL
- ② PROPOSED C.M.U. WALL



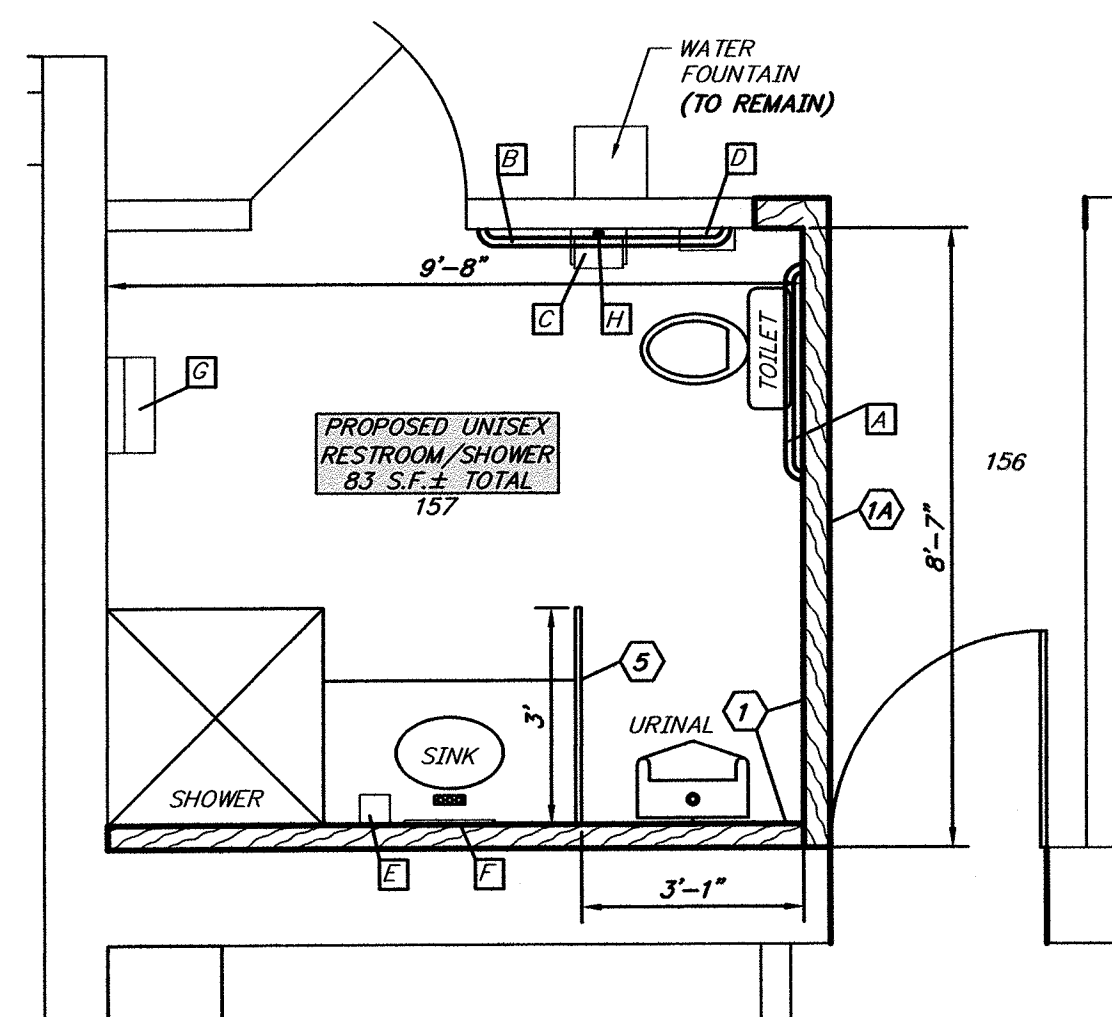
Proposed Women's Locker Room Detail

scale: 3/8" = 1'



Proposed Men's Locker Room Restroom Detail

scale: 3/8" = 1'

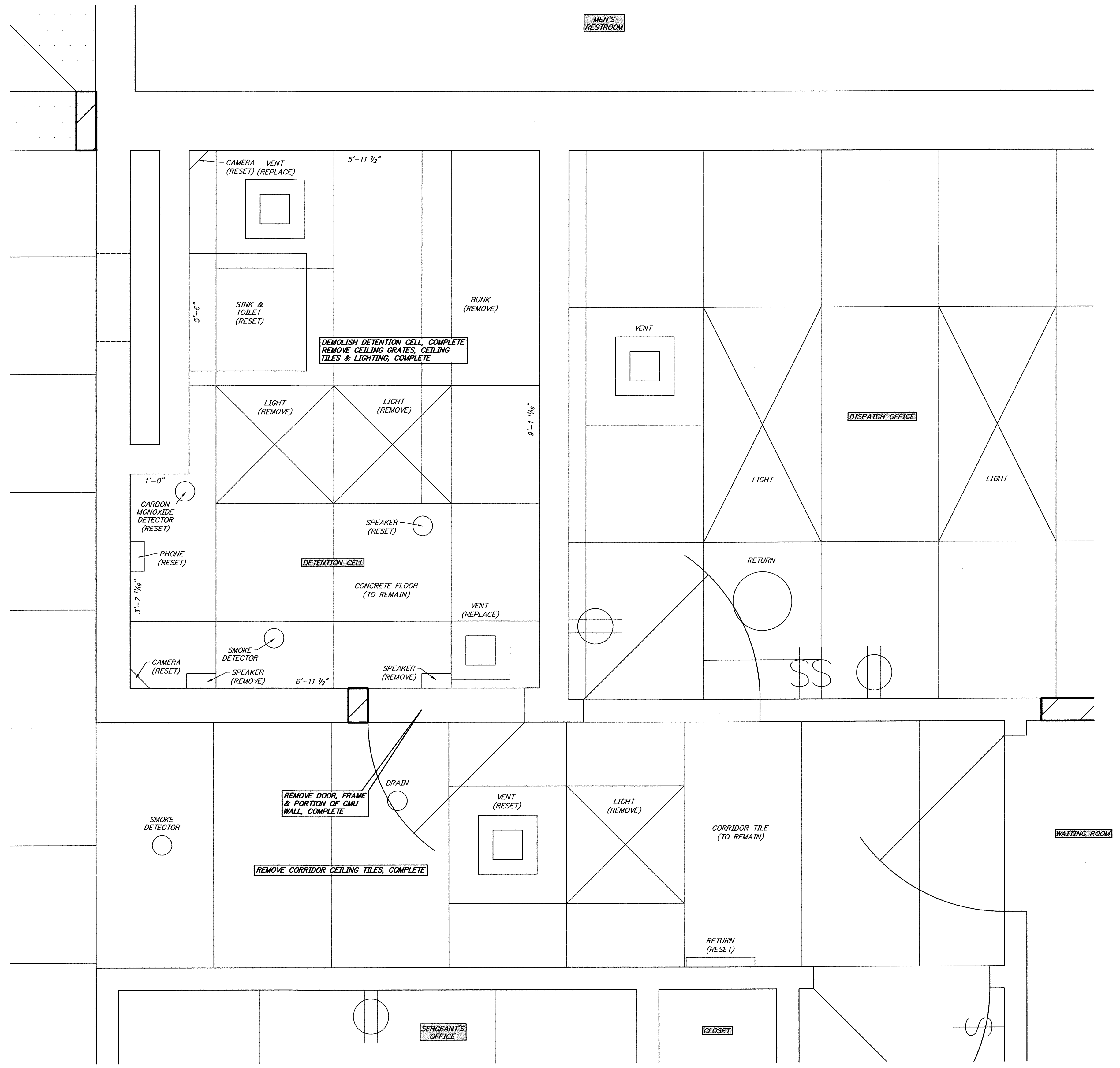


Proposed Unisex Restroom and Hallway Detail

scale: 3/8" = 1'

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.


1. 08/30/23		GENERAL REVISIONS		T.D.	G.B.F.
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.	
Restrooms Floor Plan Police Department Renovations At The Municipal Building 229 Trenton Avenue Borough of Barrington Camden County, New Jersey					
DATE: 05/15/23		DRAWN BY: T.D.		CHKD. BY:	SCALE: AS NOTED
PROJECT No. 11-411BR1116		FIELD BOOK/PAGE:		SHEET No. 4 OF 11	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076					
				DATE: 8/30/23	



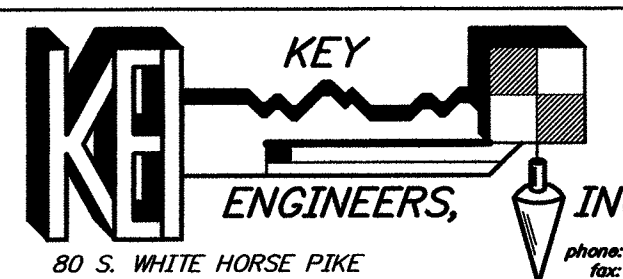
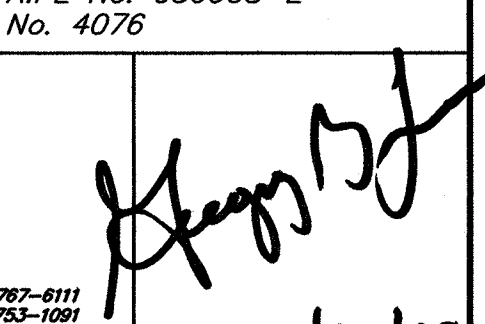
Detention Cell Demolition Plan
scale: 1" = 1'

- Demolition Notes:**
1. ALL DEMOLITION MATERIALS SHALL BE PROPERLY AND LAWFULLY DISPOSED OF AT A LAWFUL FACILITY INCLUDING TRANSPORTATION AND DISPOSAL FEES. ALSO, ANY RECYCLABLE MATERIALS SHALL BE DISPOSED OF AT A RECYCLING FACILITY INCLUDING TRANSPORTATION AND DISPOSAL FEES AND THE TONNAGE MUST BE REPORTED TO THE BOROUGH CLERK AND/OR RECYCLING COORDINATOR.
 2. ALL ASBESTOS CONTAINING MATERIAL (ACM) SHALL BE LAWFULLY REMOVED, CONTAINED AND DISPOSED OF AT A LAWFUL FACILITY.
 3. ALL ITEMS SCHEDULED TO BE RESET SHALL BE CAREFULLY REMOVED AND STORED UNTIL THEY ARE RELOCATED. ANY ITEMS THAT ARE DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

Wall Legend:
KEYED TO THIS SHEET ONLY

 REMOVE WALLS AS NECESSARY TO CREATE OPENING FOR THE NEW DETENTION CELL DOOR

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

1. 08/30/23		GENERAL REVISIONS		T.D.	G.B.F.
REV.	DATE:	DESCRIPTION		DRWN.	CHKD.
Detention Cell Demolition Plan					
Police Department Renovations At The Municipal Building 229 Trenton Avenue Borough of Barrington Camden County, New Jersey					
DATE: 05/15/23		DRAWN BY: T.D.	CHKD. BY:	SCALE: 1" = 1'	
PROJECT No. 11-411BR1116		FIELD BOOK/PAGE:		SHEET No. 5 OF 11	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER					
N.J.P.E. No. 32853		P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076			
				DATE: 8/30/23	
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300		phone: (202) 767-8111 fax: (202) 763-1081 www.keyengineers.com			

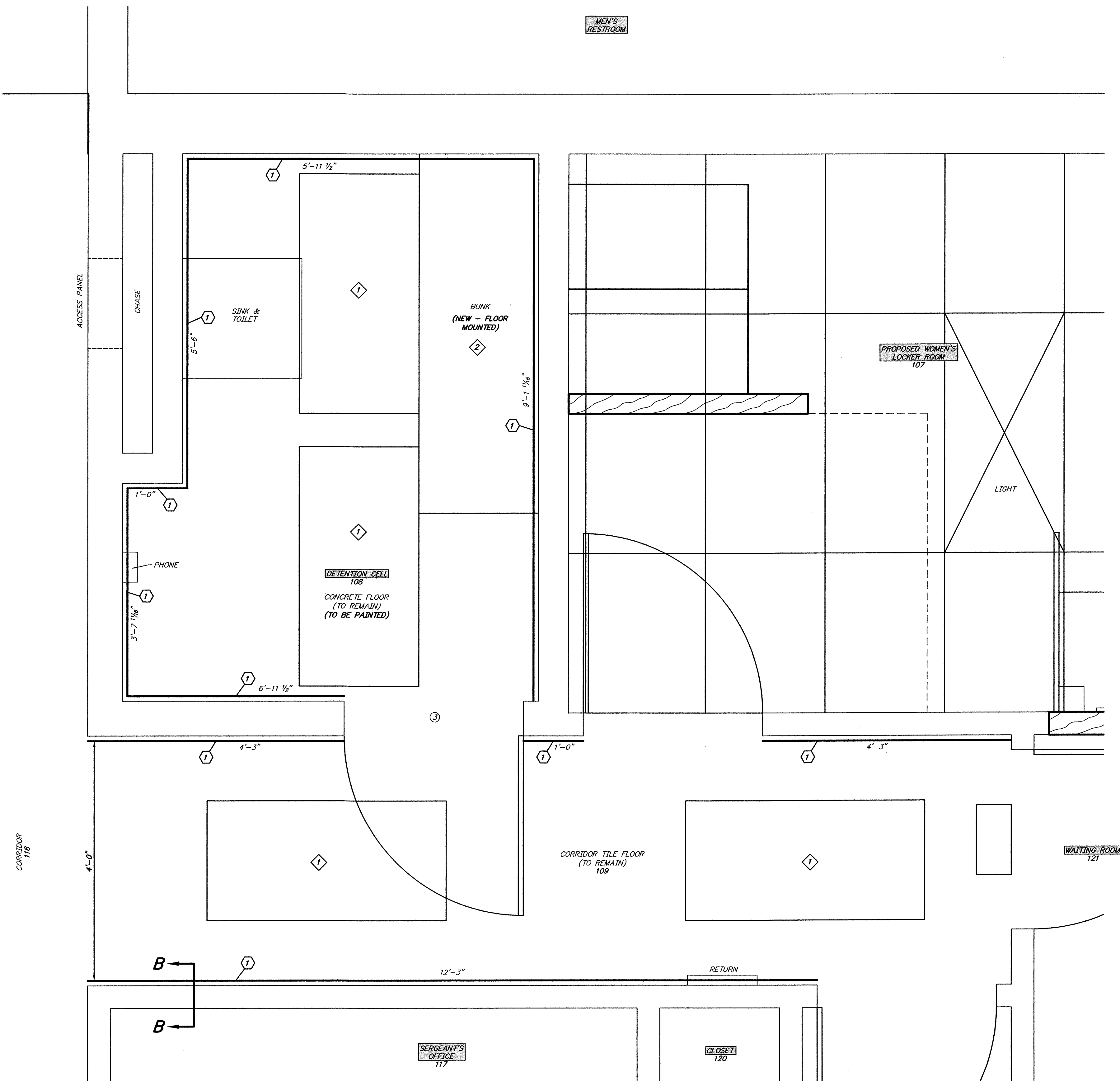
1. FRAME TO BE MIN. 12 GA., GALVANIZED STEEL, W/WELED CORNERS; PROVIDE MIN. 3 MASONRY JAIL ANCHORS PER JAMB; REINFORCE ALL AREAS TO RECEIVE HARDWARE: PROVIDE MORTAR BOXES, WELDED TO FRAMES AT ALL CUTOUTS (FRAMES TO BE FILLED SOLID WITH MORTAR).
2. DETENTION CELL DOOR TO BE FLUSH, HOLLOW METAL, SECURITY TYPE, SECURITY LEVEL 1 BY TRUSSBILT, LLC OR AMERICAN JAIL PRODUCTS, LLC W/8" AFF LATCH, 10"x10" SECURITY VISION LITE (U.L. 3) AND CELL NUMBER SIGN
3. DOORS AND FRAMES TO BE FACTORY FINISHED; FIELD APPLY FINISH PAINT: 2 COATS OF SHERWIN-WILLIAMS GLOSS EXTERIOR ACRYLIC LATEX A-100 AND SEMI-GLOSS INTERIOR ACRYLIC LATEX SUPER PAINT OR APPROVED EQUIVALENT.

NO.	SIZE			MATERIAL	GAUGE	FIRE RATING
	WIDTH	HEIGHT	THICKNESS			
③	3'-0"	6'-8"	2"	HOLLOW METAL	12 GAUGE MINIMUM	3 HR

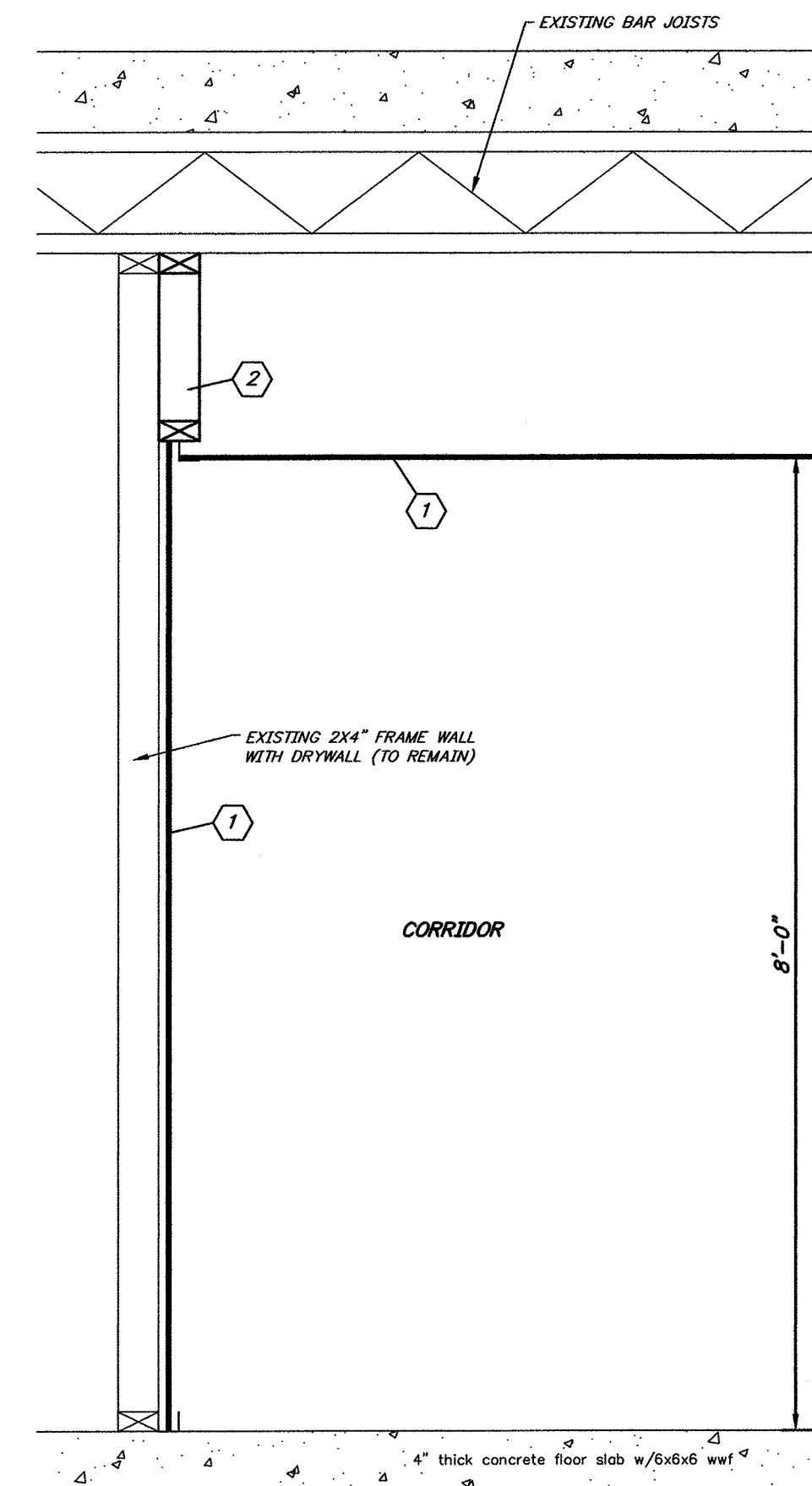
KEYED TO THIS DRAWING ONLY

- ① CONSTRUCT 12 GAUGE STEEL PLATE TRUSSWALLS AND TRUSSDOCK CEILING, COMPLETE, MANUFACTURED BY TRUSSBILT, LLC OR 3/16" MILD STEEL PLATE WITH STIFFENERS, COMPLETE, MANUFACTURED BY AMERICAN JAIL PRODUCTS, LLC OR EQUIVALENT
- ② DOUBLE 2"x4" WOOD PLATE TO BE FASTENED TO BAR JOISTS ABOVE SUSPENDED CEILING WITH WOOD SUPPORT BRACKETS CONSTRUCTED BETWEEN BAR JOISTS
- ① LIGHTING - L.E.D. (SEE ELECTRICAL PLAN)
- ② FLOOR MOUNTED SINGLE BUNK BY TRUSSBILT, LLC OR AMERICAN JAIL PRODUCTS, LLC OR EQUIVALENT W/DETENTION CELL MATTRESS, MODEL NO. OR SAFEGUARD BUNK (BUILT-IN-PILLOW) BY CHESTNUT RIDGE FOAM OR EQUIVALENT

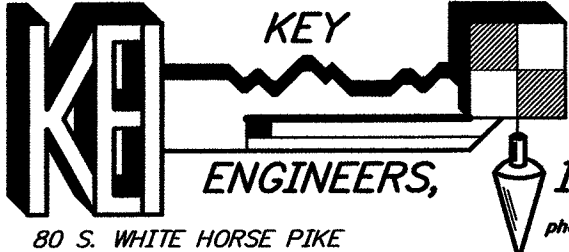
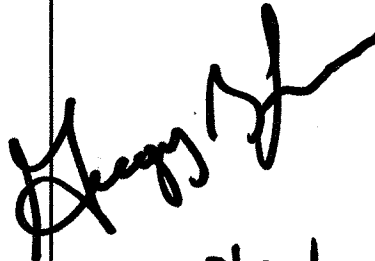
1. ALL SCREWS SHALL BE TAMPER PROOF SNAKE EYES SPANNER OR TORX T-20 HEAD WITH CENTER PIN OR EQUIVALENT.
2. SMOKE DETECTORS/CARBON MONOXIDE GUARD SHALL BE STAINLESS STEEL, SURFACE MOUNTED MODEL NO. STI-8230-SS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL OR EQUIVALENT.
3. ALL ITEMS SPECIFIED ARE OR APPROVED EQUIVALENT.



scale: $1'' = 1'$



scale: $1' = 3/4''$

1. 08/30/23		GENERAL REVISIONS		T.D.		G.B.F.	
REV.	DATE:	DESCRIPTION		DRWN.		CHKD.	
Detention Cell Improvement Plan							
Police Department Renovations At The Municipal Building 229 Trenton Avenue							
Borough of Barrington Camden County, New Jersey							
DATE: 05/15/23		DRAWN BY: T.D.		CHKD. BY:		SCALE: 1" = 1'	
PROJECT No. 11-411BR1116		FIELD BOOK/PAGE:		SHEET No. 6		OF 11	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER							
N.J.P.E. No. 32853				P.A.P.E. No. 036608-E			
NJ PROFESSIONAL PLANNER No. 4076							
 KEY ENGINEERS, INC.							
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300				phone: (856) 767-0111 fax: (856) 763-1091 www.keyengineers.com			
				DATE: 8/30/23			

REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

Construction Notes:

DEMOLITION:

- DEMOLISH AND DISPOSE OF EXISTING WALL, WINDOWS AND DOORS
- TRIM AND REMOVE CARPETING
- SAWCUT AND REMOVE CONCRETE FLOOR SLAB

CARPENTRY:

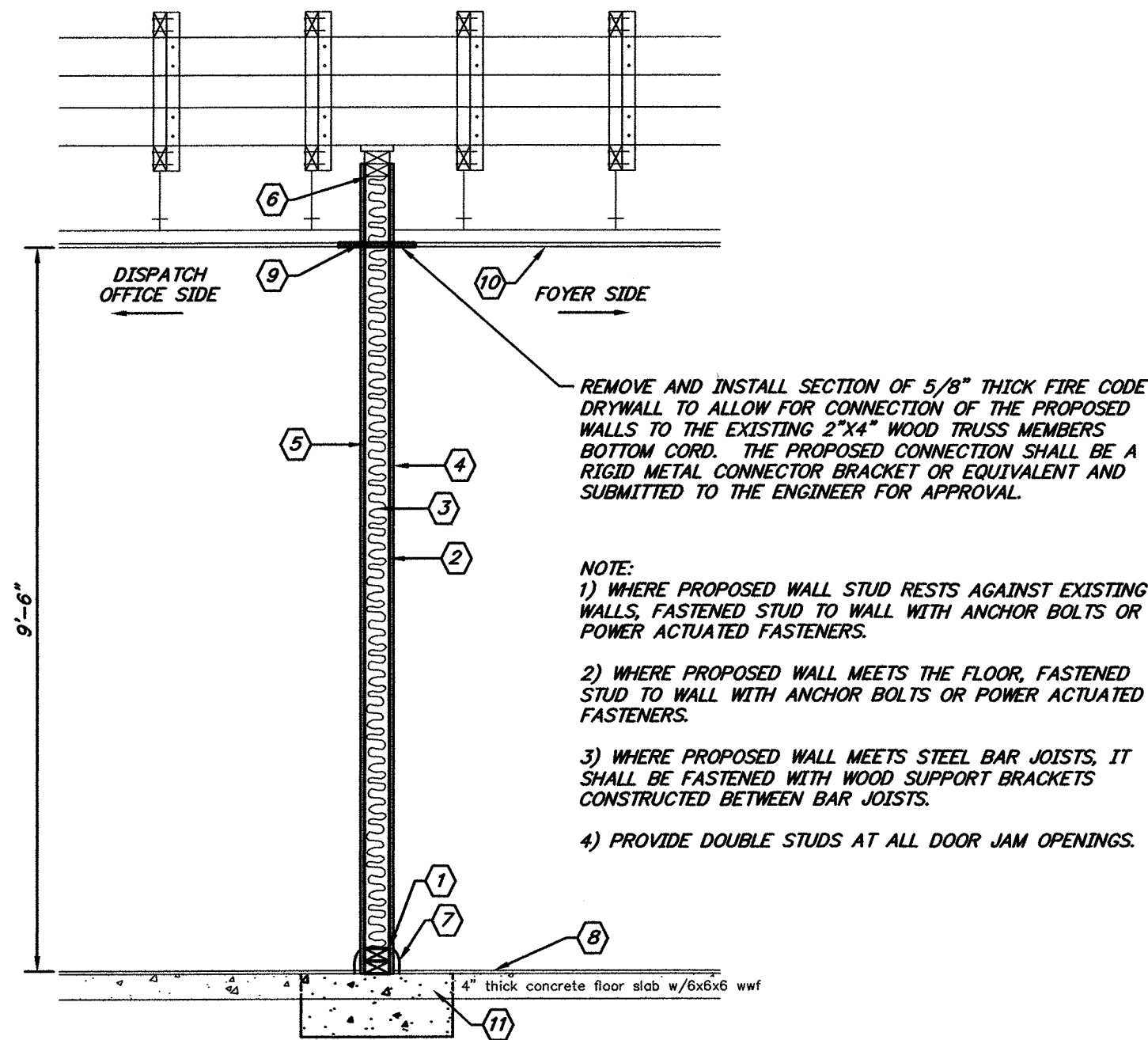
- CONSTRUCT 2" X 6" WALL DETAIL (SEE TYPICAL WALL SECTION DETAIL)

DOOR:

- 36" X 80" HOLLOW METAL DOOR, CURRIES 847 SERIES, U LEVEL 3 OR EQUIVALENT
- 36" X 80" HOLLOW METAL DOOR, CURRIES 847 SERIES WITH 6"X36" LITE, U LEVEL 3 OR EQUIVALENT

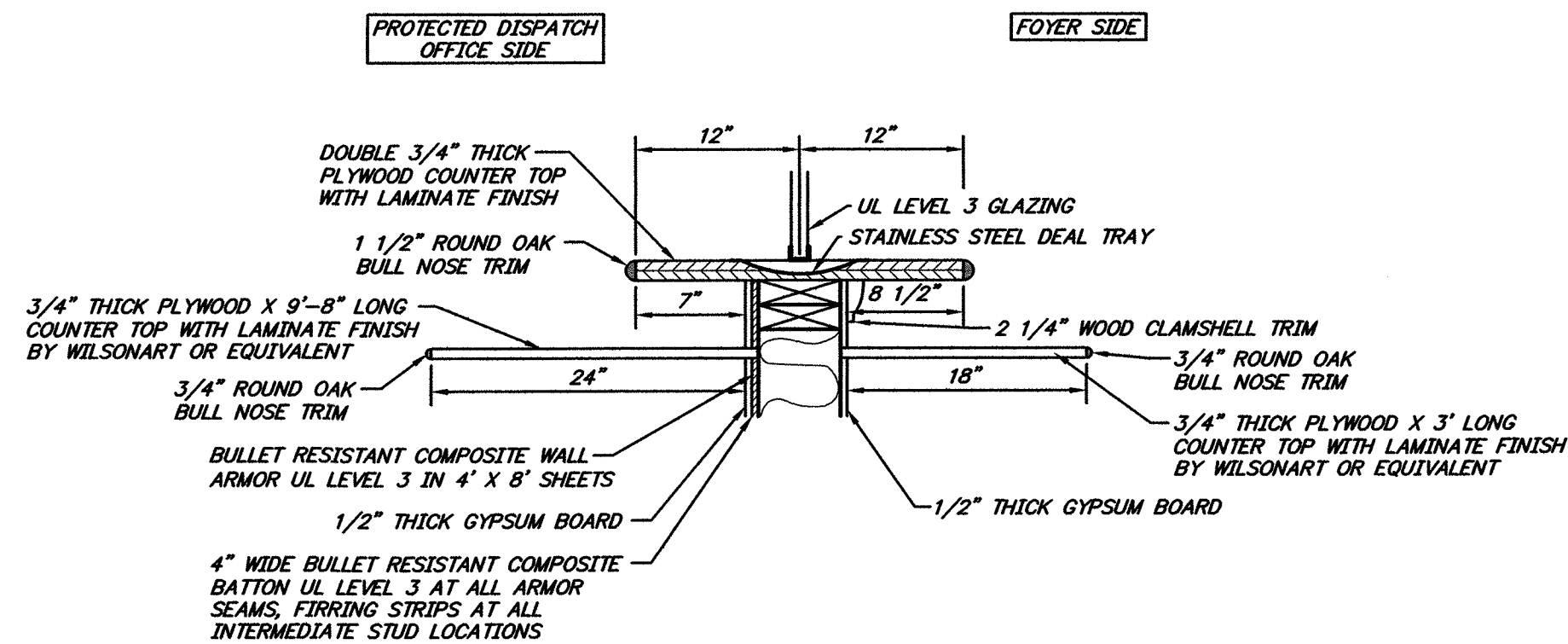
COUNTER WALL SECTION DETAIL:

- DOUBLE 2" X 6" PRESSURE TREATED WOOD PLATE ON CONTINUOUS SILL SEALER; FASTEN TO CONCRETE FLOOR WITH POWER ACTUATED FASTENERS
- 2" X 6" WOOD STUD WALL, 12" ON CENTER
- R-19 BATT INSULATION FOR SOUND REDUCTION PURPOSES
- 5/8" THICK GYPSUM BOARD (BOTH SIDES), FIRE RESISTANT BOARD AND MOLD RESISTANT BOARD
- BULLET RESISTANT SHIELD UL LEVEL 3 WITH JOINT REINFORCEMENT AND FIRING (INSTALL BETWEEN STUDS AND 5/8" THICK GYPSUM BOARD (OFFICE SIDE)
- DOUBLE 2" X 6" WOOD PLATE TO BE FASTENED TO BAR JOINTS ABOVE SUSPENDED CEILING WITH WOOD SUPPORT BRACKETS CONSTRUCTED BETWEEN BAR JOINTS.
- CARPET COVE WALL BASE
- CARPETING (COMMERCIAL GRADE NYLON CARPET TO MATCH EXISTING)
- TRIM AND RECONSTRUCT EXISTING SUSPENDED CEILING FRAME WORK AND TILES TO MEET PROPOSED WALL LOCATION
- SUSPENDED CEILING FRAME WORK AND TILES W/2 L.E.D. 24" X 48" LIGHT FIXTURES (ENTIRE RESIDENT SIDE)
- CONCRETE FLOOR SLAB W/(4) #5 REBAR, 2'-4" WIDE X 10' THICK OVER 4" CLEAN COMPACTED CRUSHED STONE
- PAINT ALL WALL SURFACES WITH ONE (1) PRIMER COAT AND TWO (2) FINISH COATS



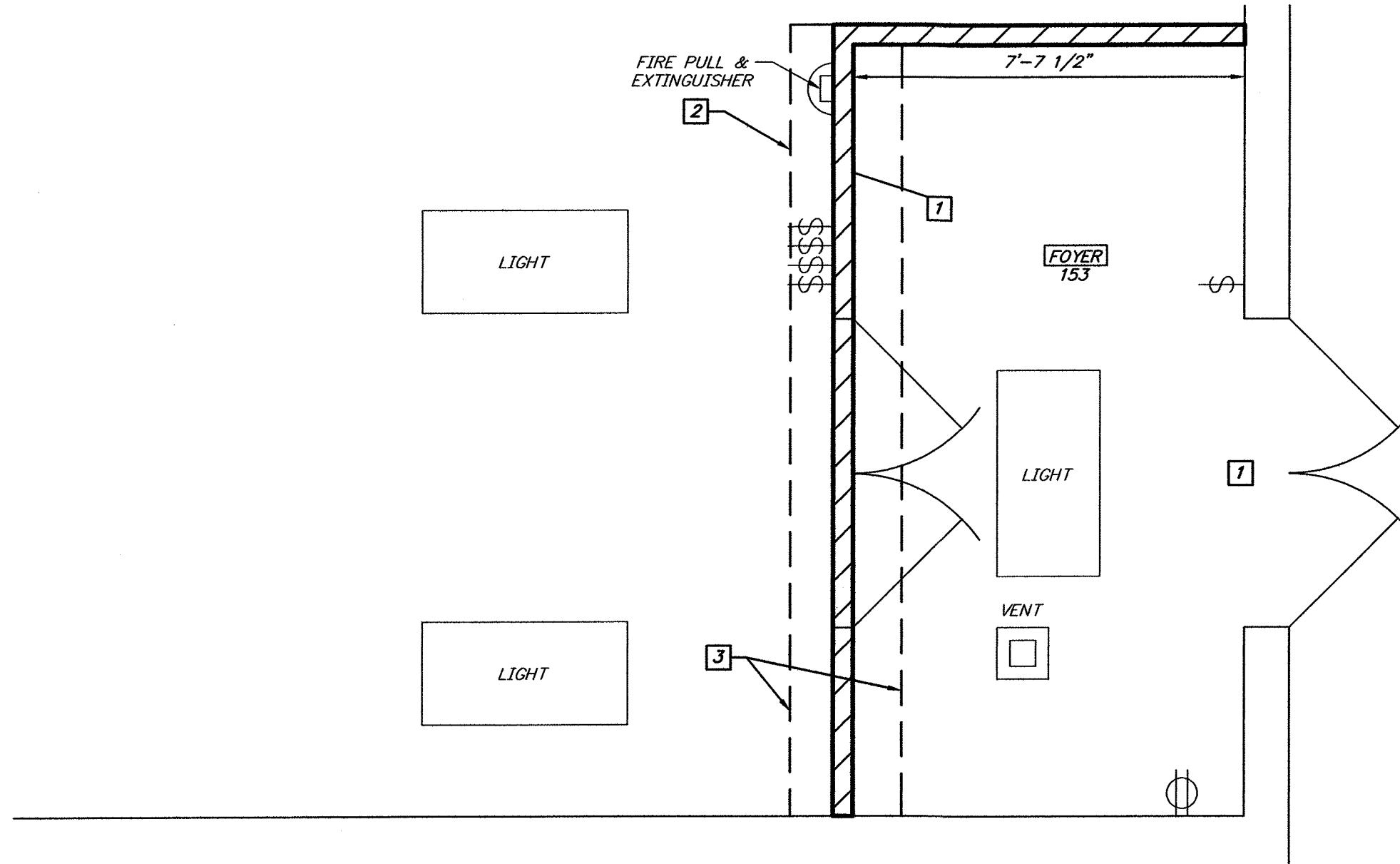
Typical Security Wall Section A-A Detail

Not to Scale



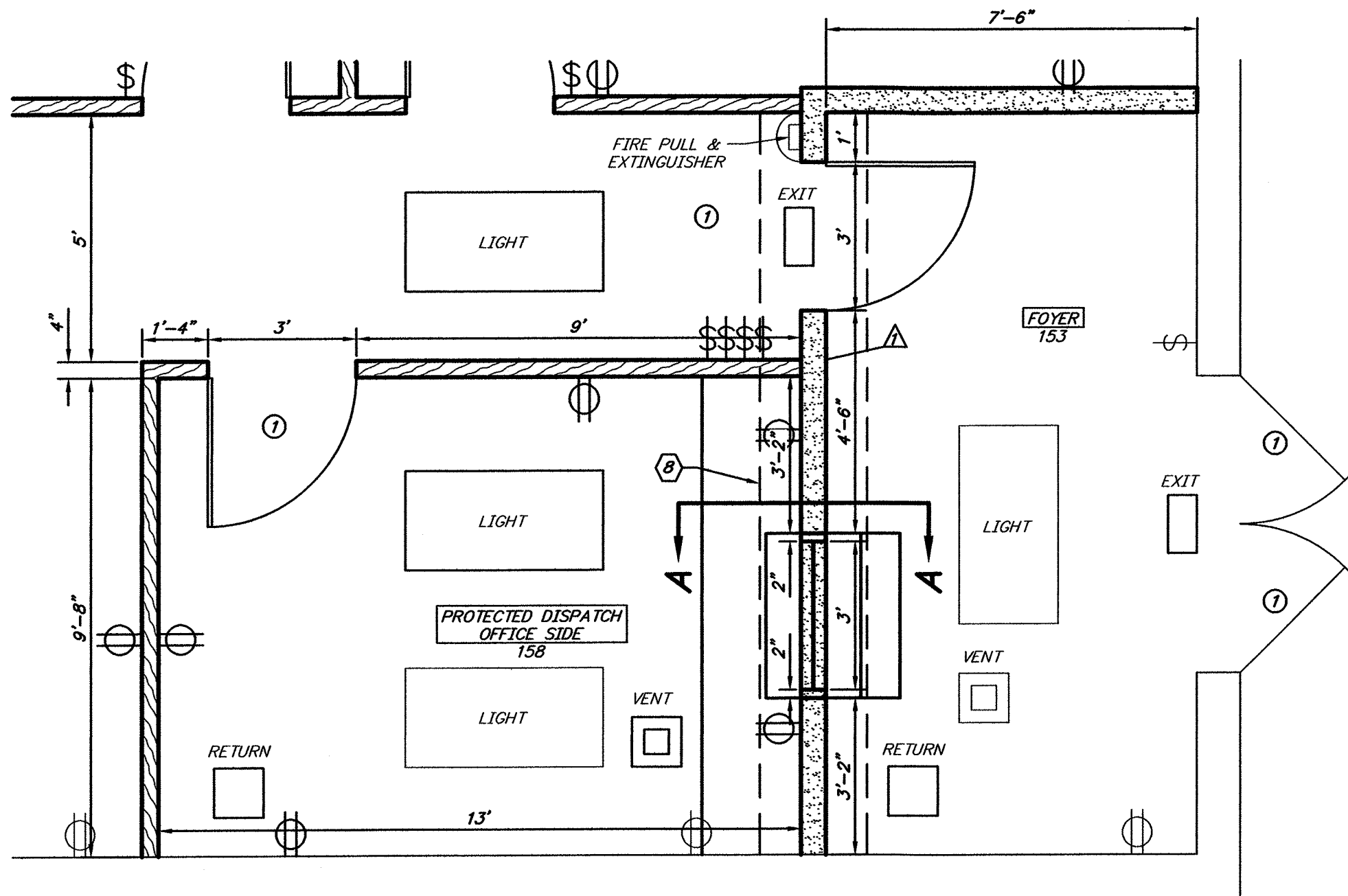
Typical Security Wall Counter Section Detail

Not to Scale



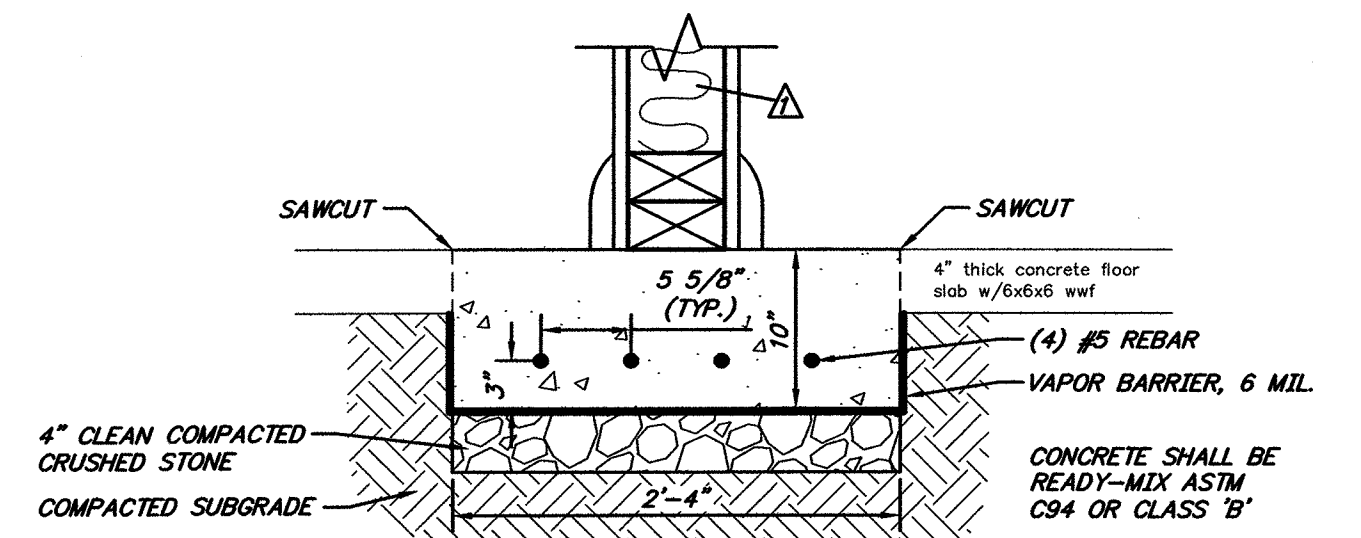
Security Wall Demolition Plan

scale: 3/8" = 1'



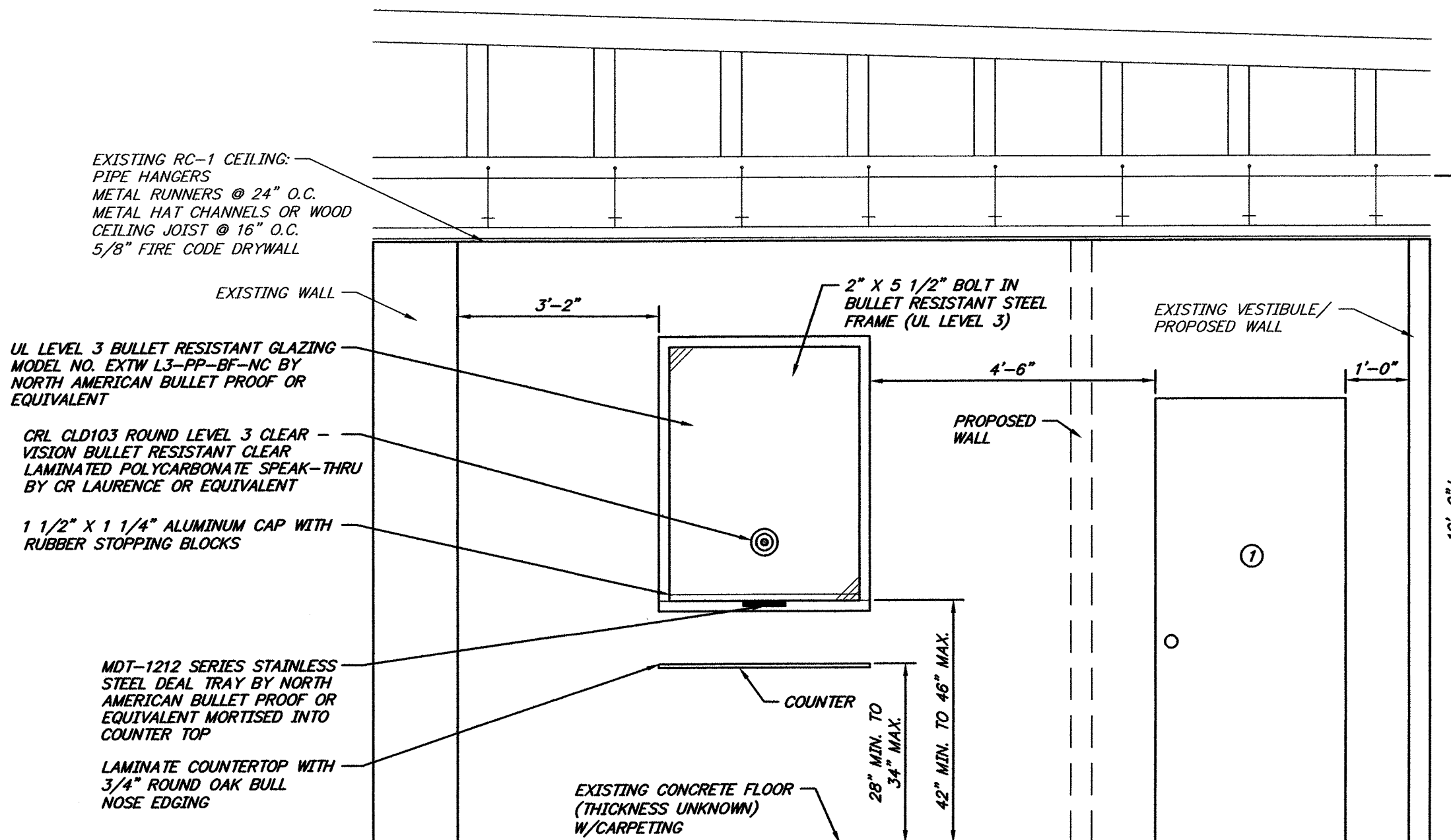
Security Wall Construction Plan

scale: 3/8" = 1'



Security Wall Concrete Floor Slab Detail

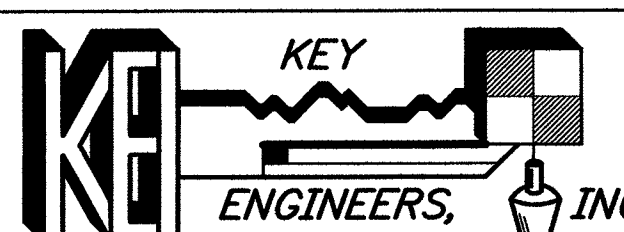
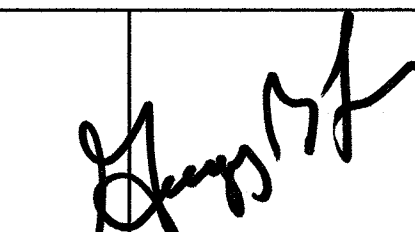
Not to Scale



Security Wall Elevation

scale: 1/2" = 1'

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1.	08/30/23	GENERAL REVISIONS	T.D.	G.B.F.
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Dispatch Office Security Wall Improvements				
Police Department Renovations At The Municipal Building 229 Trenton Avenue				
Borough of Barrington Camden County, New Jersey				
DATE: 05/15/23	DRAWN BY: T.D.	CHKD. BY:	SCALE: AS NOTED	
PROJECT No. 11-411BR1116	FIELD BOOK/PAGE:	SHEET No. 7		OF 11
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		PA.PE No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				
				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #246A28041300		phone: (609) 767-8111 fax: (609) 763-1091 www.keyengineers.com		
		DATE: 8/30/23		

Construction Notes:

DEMOLITION:

- 1 DEMOLISH AND DISPOSE OF EXISTING WALL, WINDOWS AND DOORS
- 2 REMOVE AND DISPOSE OF SUSPENDED CEILING (FRAME, TILES AND LIGHT FIXTURES)
- 3 SAWCUT AND REMOVE CONCRETE FLOOR SLAB

CARPENTRY:

- △ CONSTRUCT 2" X 6" WALL DETAIL (SEE TYPICAL WALL SECTION DETAIL)
- △ CONSTRUCT ACOUSTICAL SUSPENDED CEILING AND L.E.D. LIGHTING (SEE ELECTRICAL PLAN)

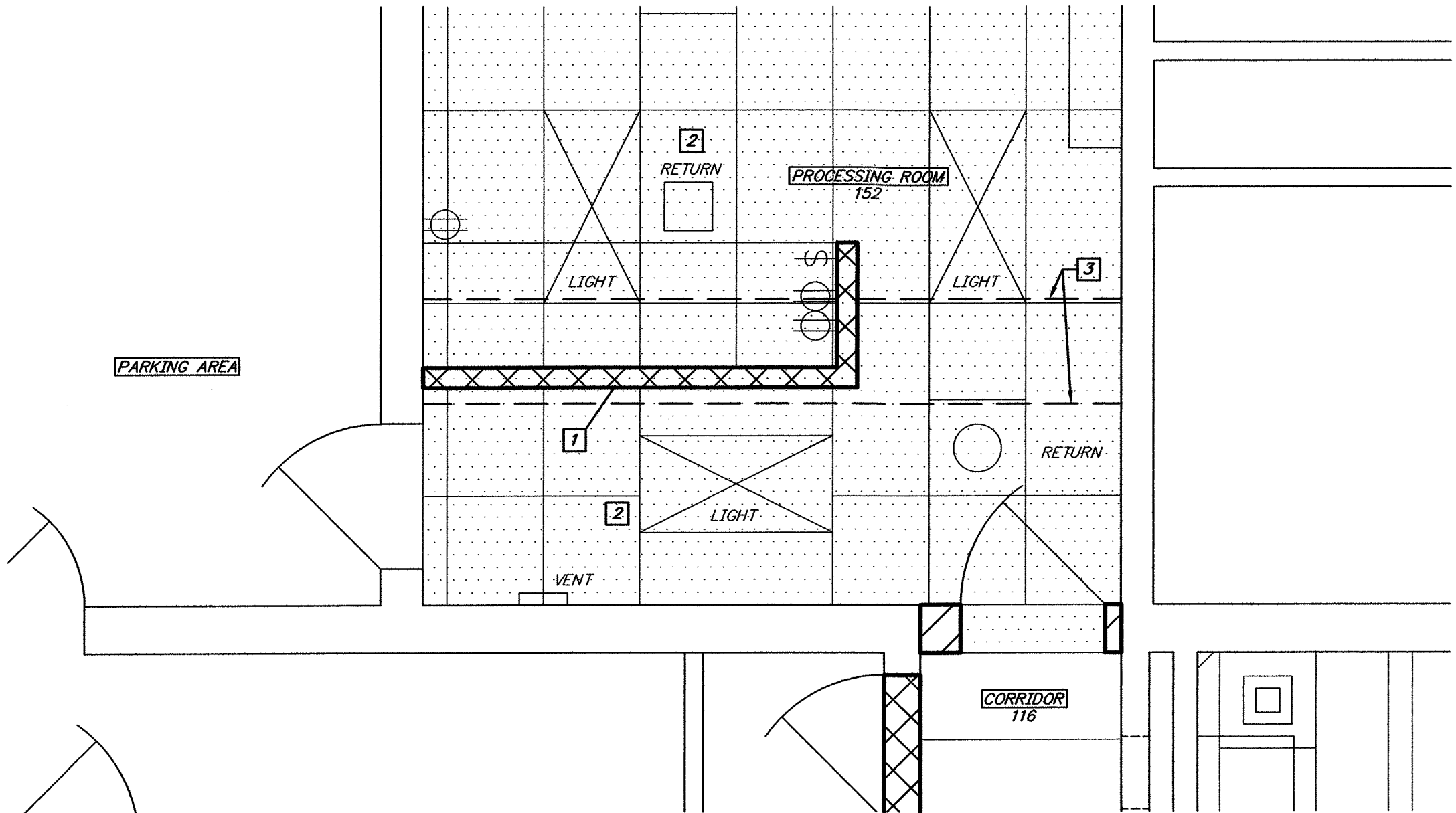
DOOR:

- ① 36" X 80" HOLLOW METAL DOOR, CURRIES 847 SERIES, U LEVEL 3 OR EQUIVALENT. TOTAL OF 1 UNIT.

COUNTER WALL SECTION DETAIL:

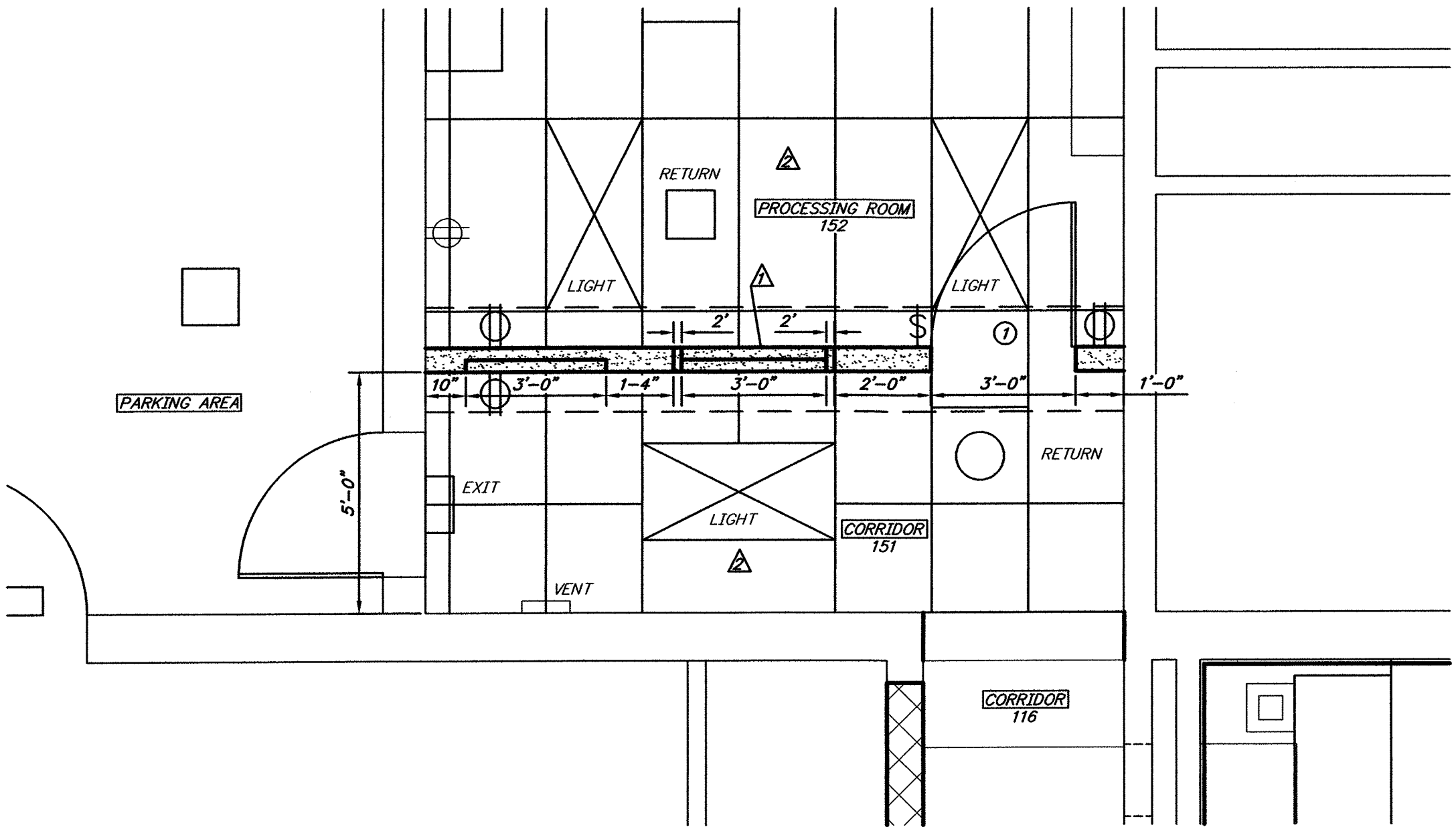
- ① DOUBLE 2" X 6" PRESSURE TREATED WOOD PLATE ON CONTINUOUS SILL SEALER; FASTEN TO CONCRETE FLOOR WITH POWER ACTUATED FASTENERS
- ② 2" X 6" WOOD STUD WALL, 12" ON CENTER
- ③ R-19 BATT INSULATION FOR SOUND REDUCTION PURPOSES
- ④ 5/8" THICK GYPSUM BOARD (BOTH SIDES), FIRE RESISTANT BOARD
- ⑤ BULLET RESISTANT SHIELD UL LEVEL 3 WITH JOINT REINFORCEMENT AND FIRING (INSTALL BETWEEN STUDS AND 5/8" THICK GYPSUM BOARD (OFFICE SIDE)
- ⑥ DOUBLE 2" X 6" WOOD PLATE TO BE FASTENED TO BAR JOINTS ABOVE SUSPENDED CEILING WITH WOOD SUPPORT BRACKETS CONSTRUCTED BETWEEN BAR JOINTS.
- ⑦ 4" HIGH VINYL COVE BASE MOLDING
- ⑧ CARPETING (COMMERCIAL GRADE NYLON CARPET TO MATCH EXISTING)
- ⑨ TRIM AND RECONSTRUCT EXISTING SUSPENDED CEILING FRAME WORK AND TILES TO MEET PROPOSED WALL LOCATION
- ⑩ SUSPENDED CEILING FRAME WORK AND TILES W/2 L.E.D. 24" X 48" LIGHT FIXTURES (ENTIRE RESIDENT SIDE)
- ⑪ CONCRETE FLOOR SLAB W/(4) #5 REBAR, 2'-4" WIDE X 10' THICK OVER 4" CLEAN COMPACTED CRUSHED STONE

PAINT ALL WALL SURFACES WITH ONE (1) PRIMER COAT AND TWO (2) FINISH COATS



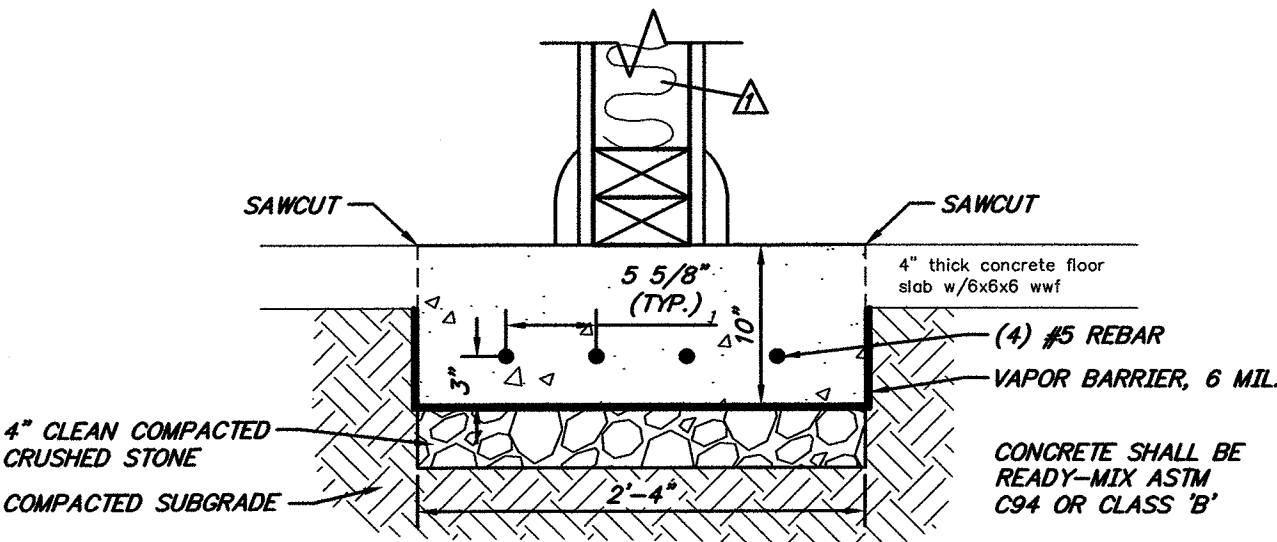
Security Wall Demolition Plan

scale: 3/8" = 1'



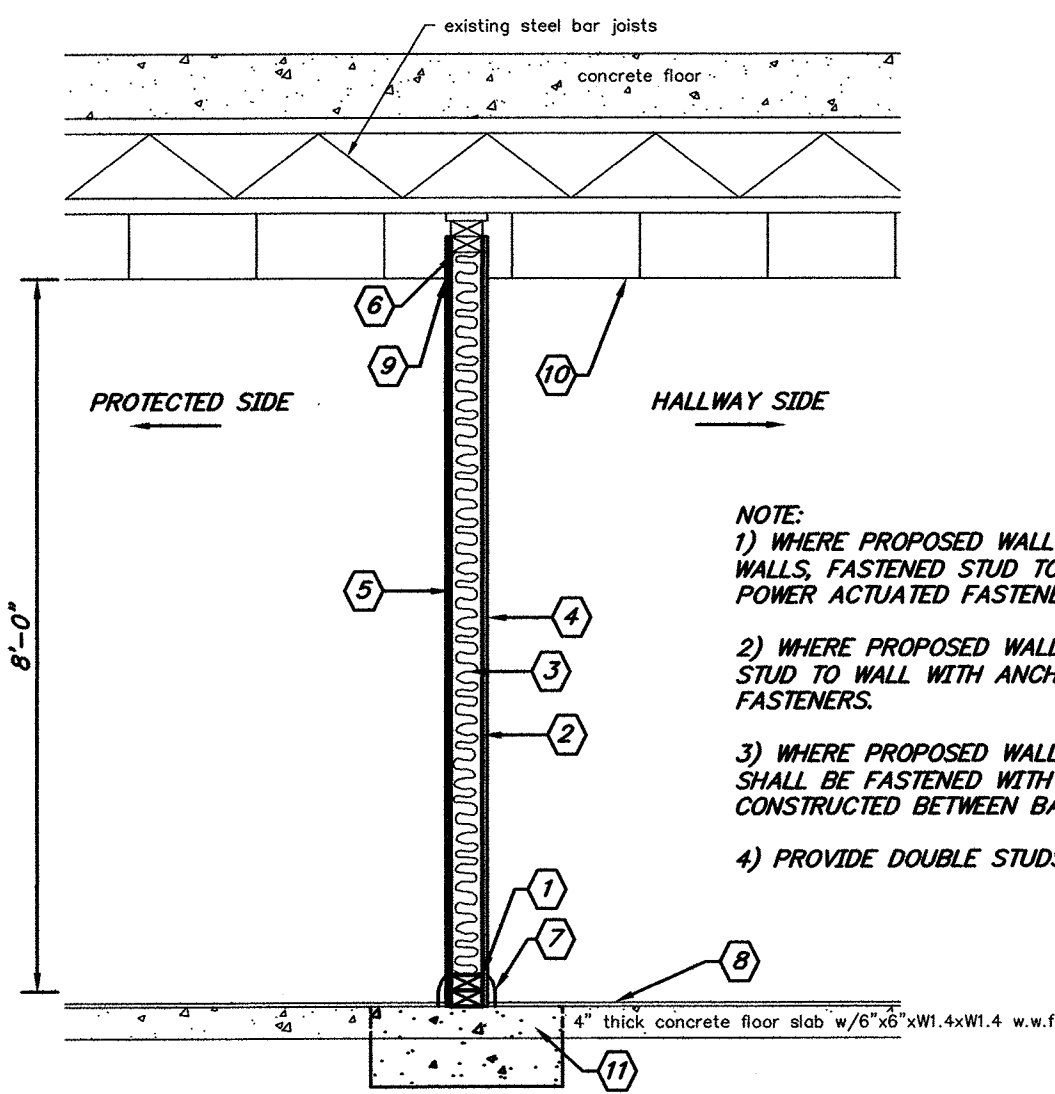
Security Wall Construction Plan

scale: 3/8" = 1'



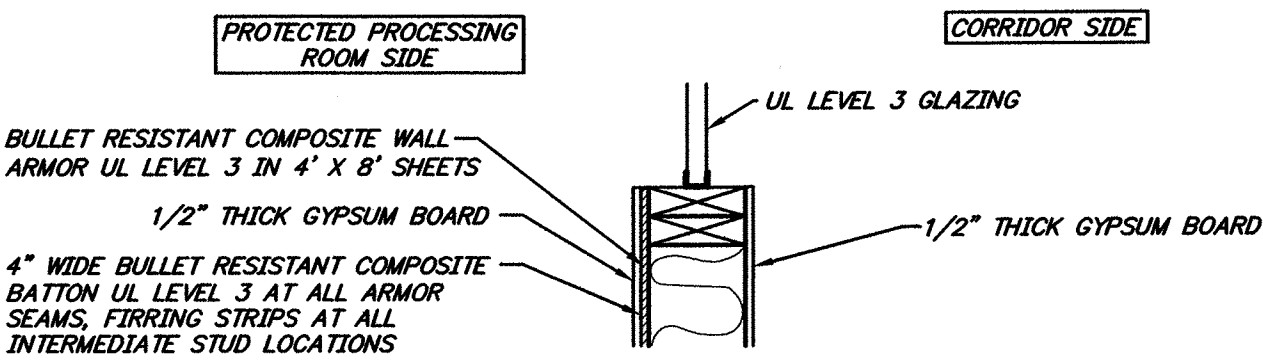
Security Wall Concrete Floor Slab Detail

Not to Scale



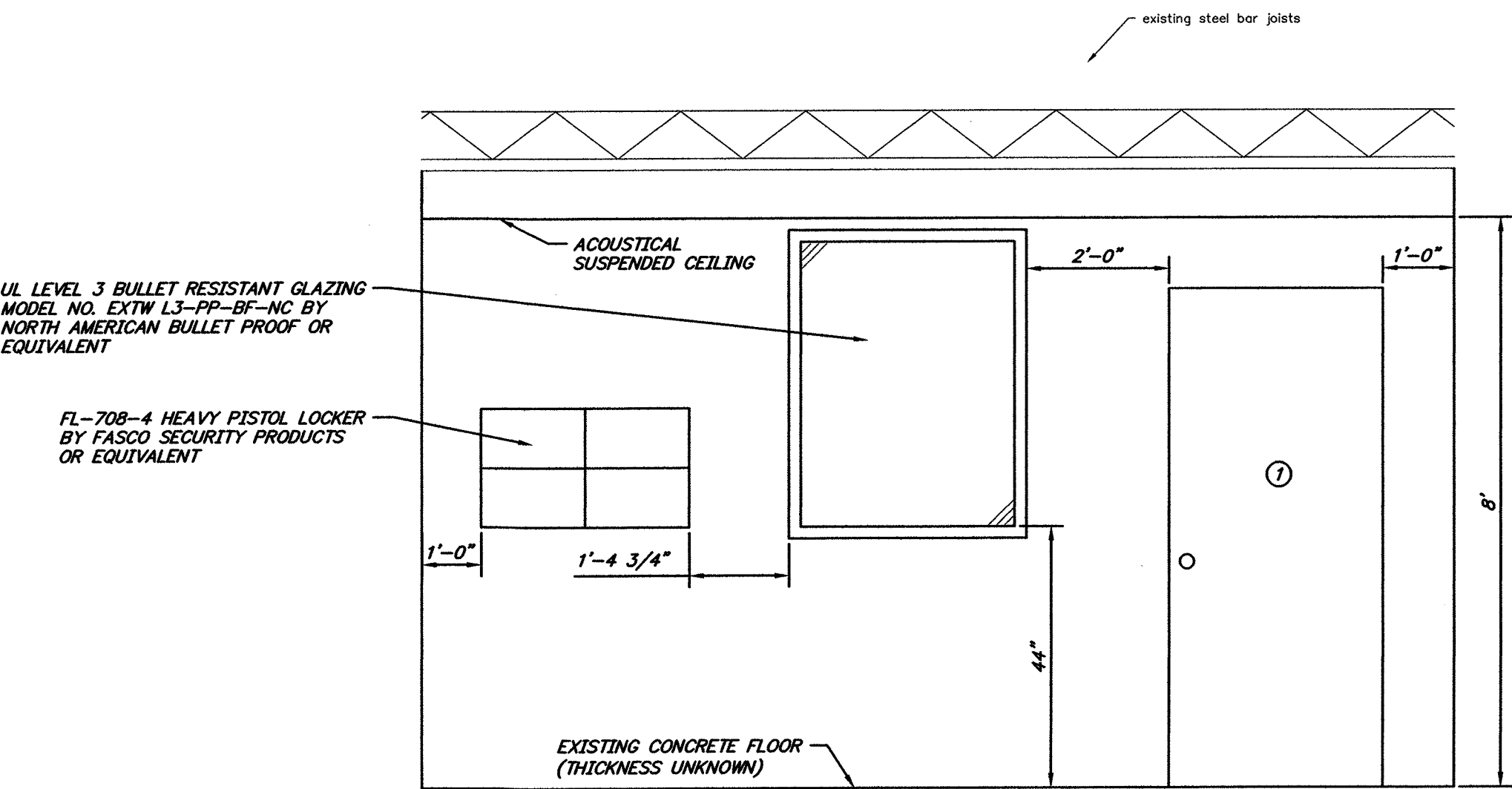
Typical Security Wall Section Detail

Not to Scale



Typical Security Wall Section Detail

Not to Scale

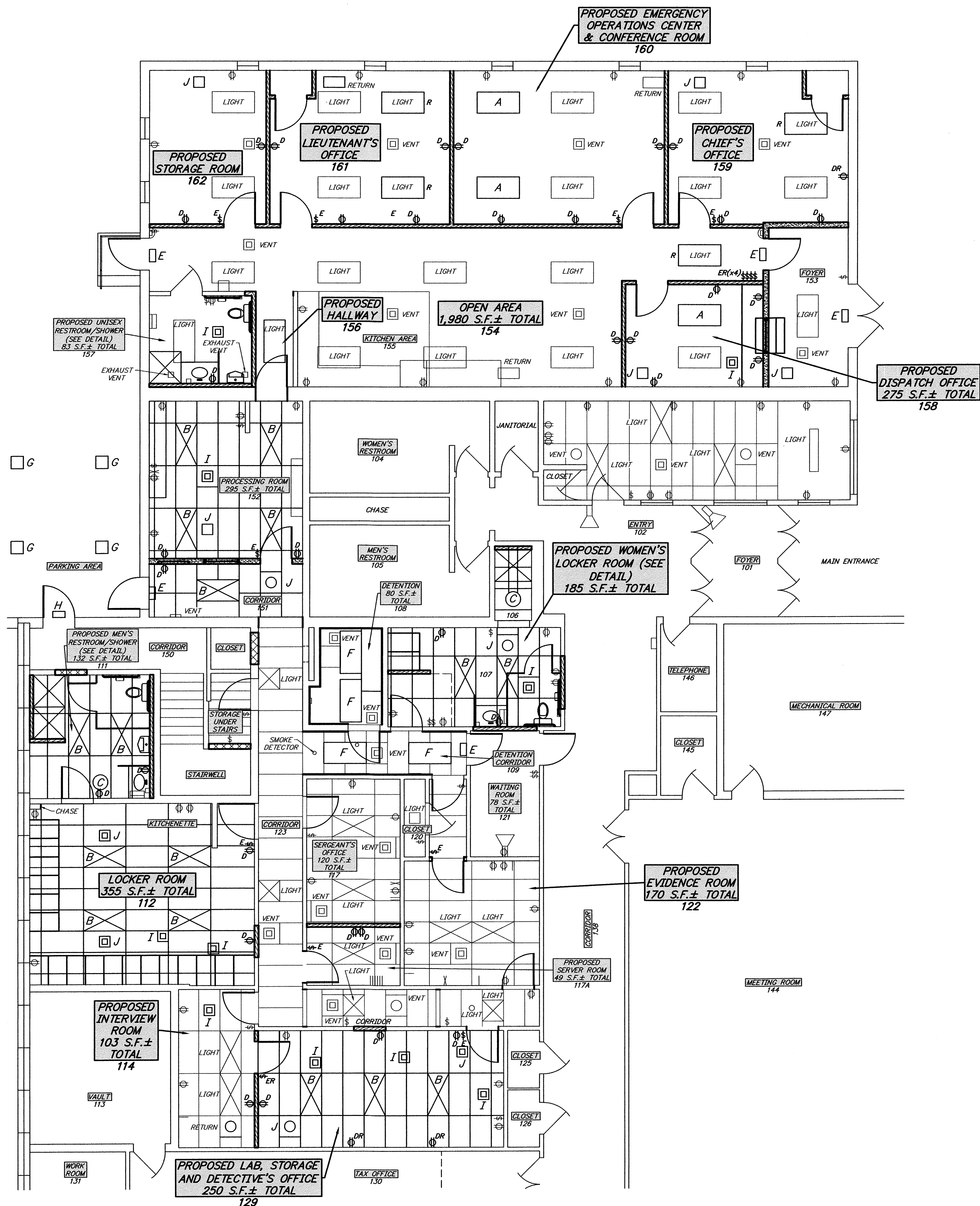


Security Wall Elevation

scale: 1/2" = 1'

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1.	08/30/23	GENERAL REVISIONS	T.D.	G.B.F.
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Processing Room Security Wall Improvements				
Police Department Renovations At The Municipal Building 229 Trenton Avenue Borough of Barrington Camden County, New Jersey				
DATE: 05/15/23	DRAWN BY: T.D.	CHKD. BY:	SCALE: AS NOTED	
PROJECT No. 11-411BR1116	FIELD BOOK/PAGE:	SHEET No. 8 OF 11		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		PA.PE No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 www.keyengineers.com		phone: (609) 767-8111 fax: (609) 767-1091		
CERTIFICATE OF AUTHORIZATION #246A28041300		DATE 8/30/23		



Municipal Building/Complex Main Floor
scale: 3/16" = 1'

Lighting Fixture / Electrical Schedule				
KEY	MANUFACTURER	CATALOG NO.	DESCRIPTION	MOUNTING
A	LITHONIA LIGHTING	#LBL4	2 FT. X 4 FT. FLUSH-MOUNT CEILING WHITE L.E.D. LIGHT	CEILING
B	LITHONIA LIGHTING	#GTL	2 FT. X 4 FT. RECESSED TROFFER WHITE L.E.D. LIGHT	CEILING
C	BROAN	L150	157 CFM EXHAUST FAN WITH DUCT WORK TO OUTSIDE DISCHARGE	CEILING W/6" WALL DISCHARGE
D	LEVITON	RO2-X7899-0 KW	SMARTLOCK PRO 20 AMP SLIM TAMPER RESISTANT GFCI DUPLEX OUTLET - WHITE	STANDARD WALL MOUNT
E	LITHONIA LIGHTING	LHQM LED R M6	2 - LIGHT PLASTIC L.E.D. WHITE EXIT SIGN/ EMERGENCY COMBO WITH L.E.D. HEAD AND RED STENCIL	WALL (above doors)
F	KENALL	RMCD SERIES MIGHTYMAC	24" X 48" TWO TUBE 45W L.E.D. DETENTION CELL & CORRIDOR FIXTURE	STANDARD RECESSED MOUNT
G	RAB LIGHTING	PRT-55W-400K NEUTRAL-BRONZE-120 DIMMING-120 SWIVEL PHOTOCELL-STANDARD	PORTO XL L.E.D. EXTERIOR CEILING MOUNTED LIGHT	CEILING
H	RAB LIGHTING	SLIM-10DEG. CUTOFF -57W-400K NEUTRAL-BRONZE-120-277V -120V BUTTON PHOTOCELL-STANDARD	SLIM HIGH WATTAGE L.E.D. EXTERIOR WALL PACK	WALL (above door)
I	-	-	VENTS SHALL BE 12"x12" COMMERCIAL GRADE WHITE METAL T-BAR DROP CEILING LAY IN SUPPLY DIFFUSER WITH COLLAR AND SUPPLY LINE CONNECTED TO THE NEAREST EXISTING VENT	CEILING
J	-	-	RETURNS SHALL BE 12"x12" COMMERCIAL GRADE WHITE METAL RETURN AIR GRILL WITH COLLAR AND RETURN LINE CONNECTED TO THE NEAREST EXISTING VENT	CEILING

* ALL MANUFACTURERS SPECIFIED ARE "OR EQUIVALENT"

Notes:

- ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (2005), THE NEW JERSEY UNIFORM CONSTRUCTION CODE, ICC/ANSI A.117-2003 AND LOCAL ORDINANCES.
- ALL CONDUCTORS SHALL BE COPPER. ALUMINUM SHALL BE ACCEPTABLE FOR FEEDERS SIZES OF #2 OR LARGER. SIZES SHOWN ARE FOR COPPER CONDUCTORS, UNLESS OTHERWISE SHOWN.
- ALL CIRCUITS SHALL BE MINIMUM WIRE SIZE OF #12 AWG THWN/THHN. ALL WIRING SHALL BE IN SURFACE MOUNTED METAL CONDUIT.
- ELECTRICAL CONTRACTOR SHALL BALANCE THE LOADS IN THE PANEL TO PROVIDE THE MOST EVEN DISTRIBUTION PRACTICAL.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
- THE LICENSED ELECTRICAL CONTRACTOR SHALL SUBMIT AND OBTAIN AN ELECTRIC PERMIT. ALL PERMIT FEES SHALL BE WAIVED.

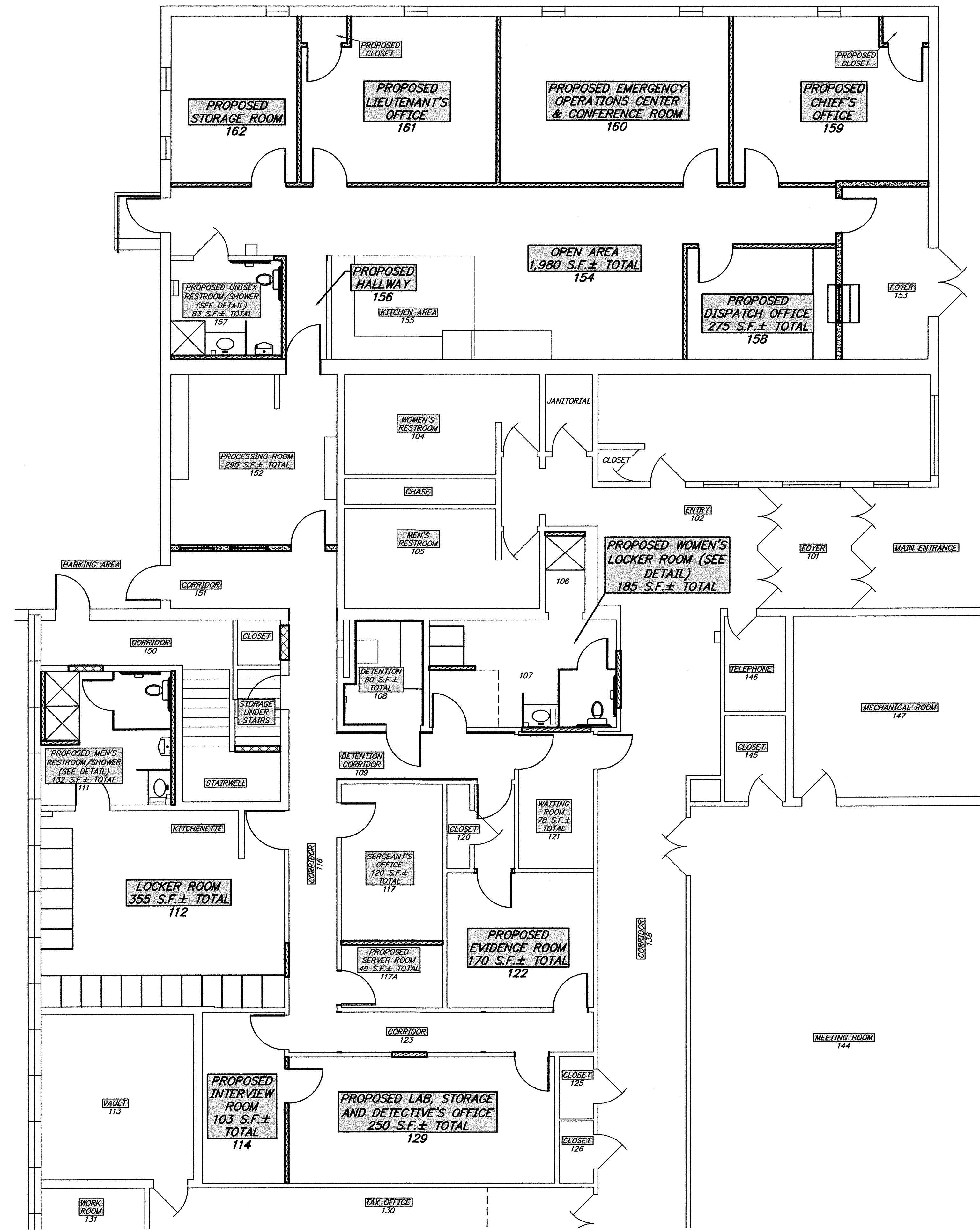
Legend:

KEYED TO THIS SHEET ONLY

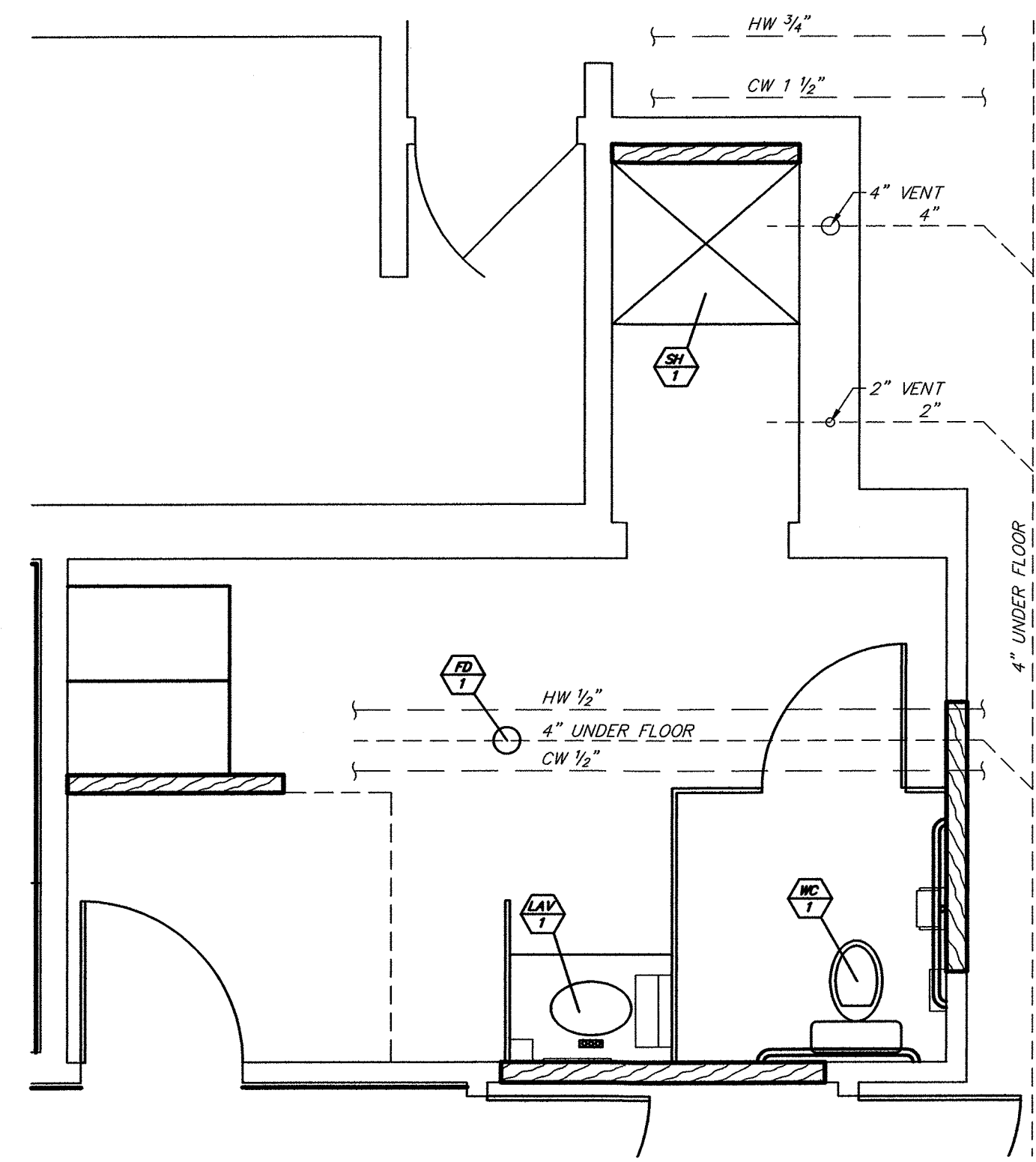
- PROPOSED 20 AMP RECEPTACLE
- RELOCATED 20 AMP RECEPTACLE
- EXISTING 20 AMP RECEPTACLE
- PROPOSED SWITCH
- RELOCATED SWITCH
- EXISTING SWITCH
- ETHERNET JACK
- TELEPHONE JACK
- PROPOSED EXHAUST FAN WITH DUCTWORK
- EXISTING LIGHT
- RELOCATED LIGHT

1.	08/30/23	GENERAL REVISIONS	T.D.	G.B.F.
REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Electrical Plan				
Police Department Renovations At The Municipal Building 229 Trenton Avenue Borough of Barrington Camden County, New Jersey				
DATE: 05/15/23	DRAWN BY: T.D.	CHKD. BY:	SCALE: 3/16" = 1"	
PROJECT No. 11-411B1116	FIELD BOOK/PAGE:	SHEET No. 9 OF 11		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
N.J.P.E. No. 32853		P.A.P.E. No. 036608-E NJ PROFESSIONAL PLANNER No. 4076		
		 KEY ENGINEERS, INC. 80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #E4GA2804300		
		DATE 8/31/23		

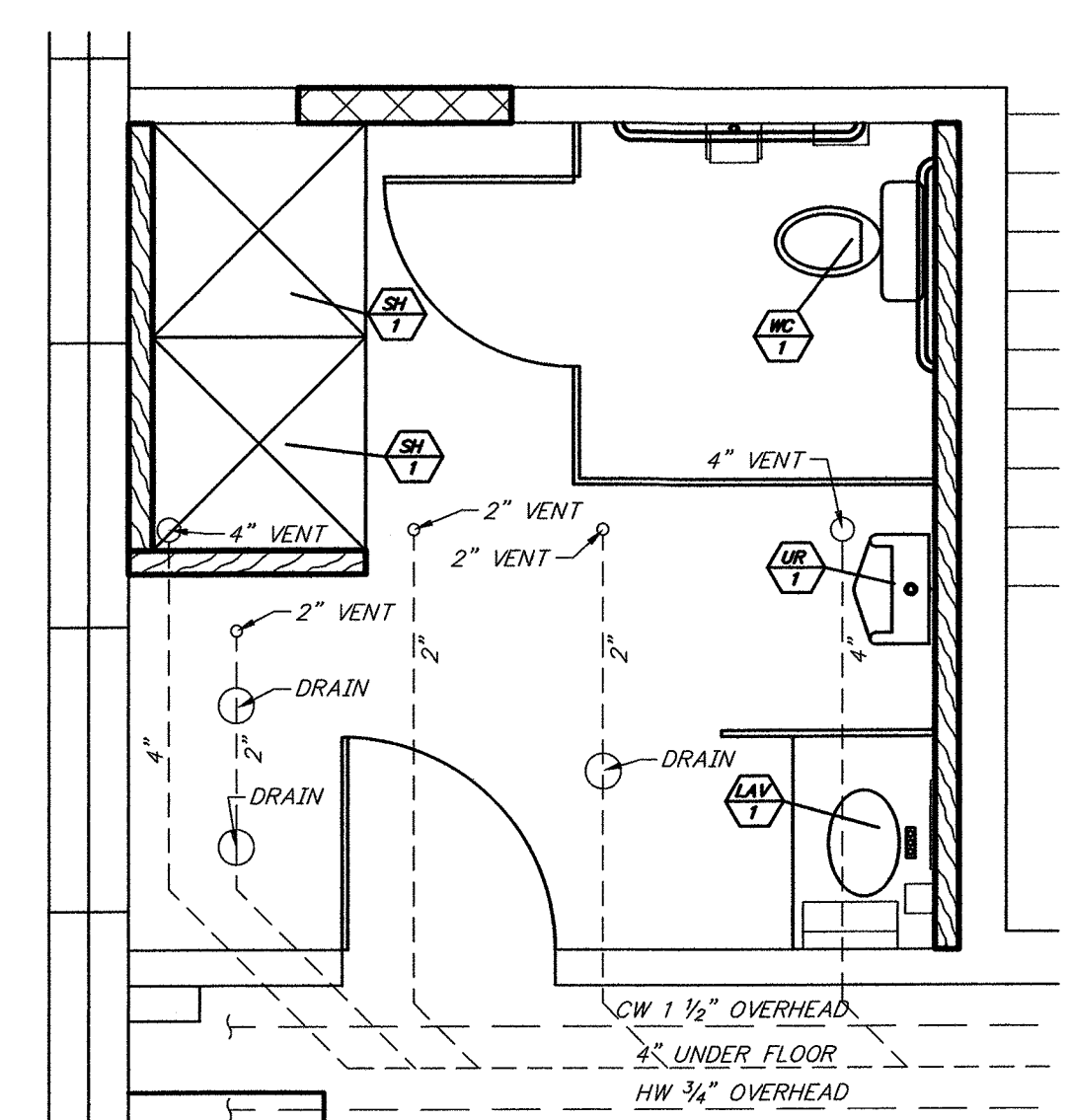
REPRODUCTION, ALTERATION AND AMENDMENT OF THIS PLAN SHALL BE PERFORMED ONLY BY KEY ENGINEERS, INC. AND SHALL BE PERFORMED UNDER THE ABSOLUTE DIRECTION OF THE LICENSED PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.



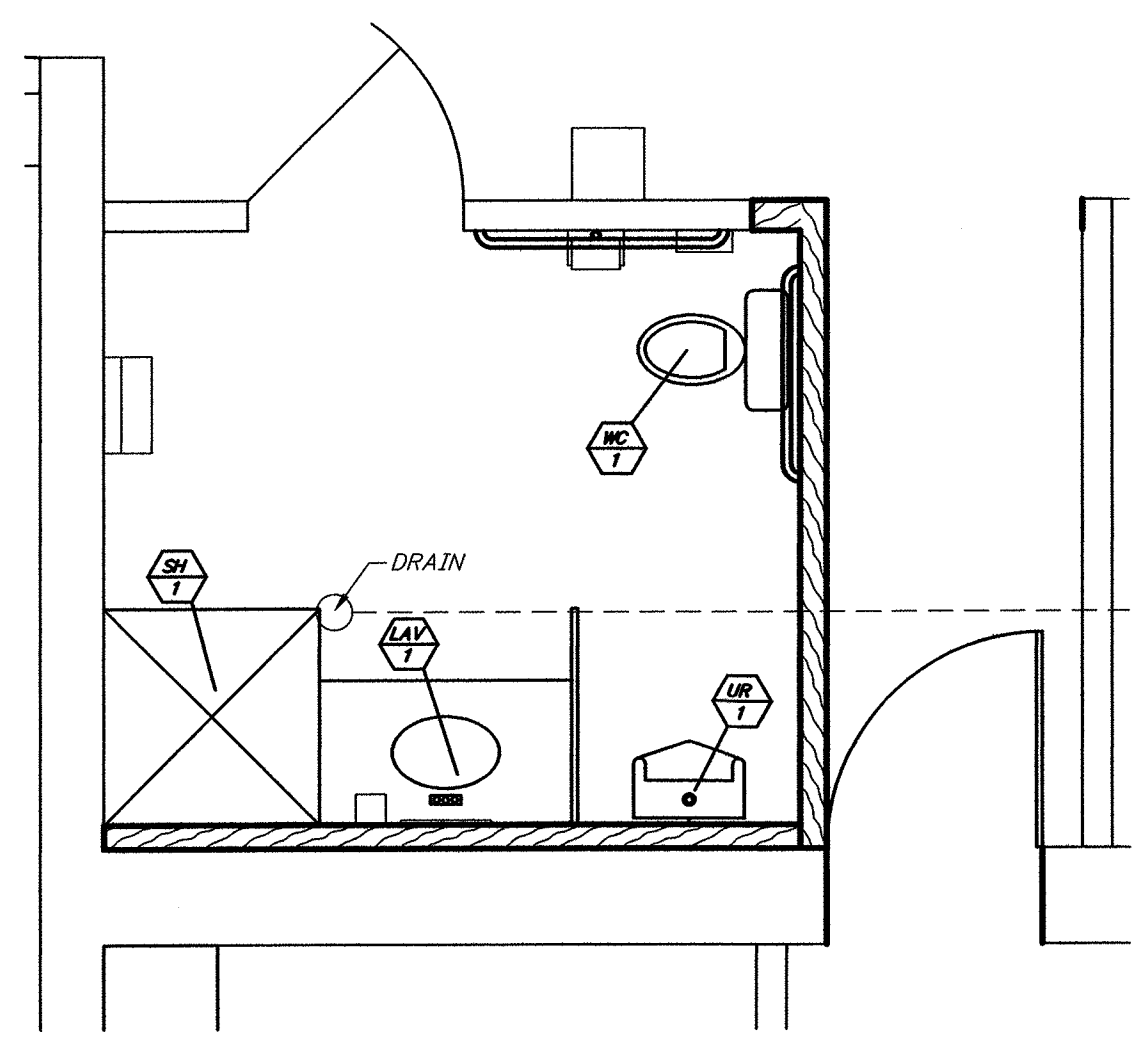
**Police Department Improvements
Municipal Building/Complex Main Floor**
scale: 3/16" = 1'



Proposed Women's Locker Room Detail
scale: 3/8" = 1'



Proposed Men's Locker Room Restroom Detail
scale: 3/8" = 1'



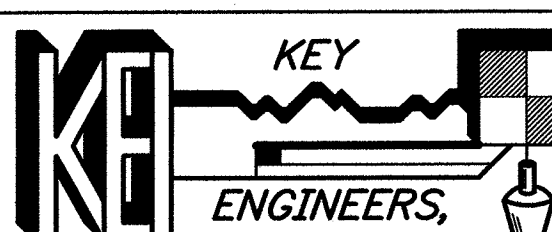
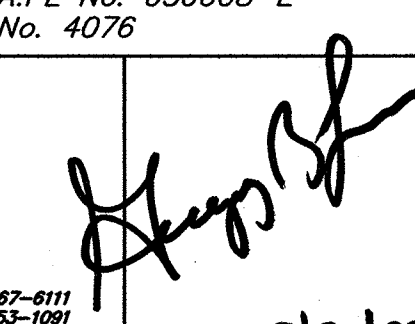
Proposed Unisex Restroom and Hallway Detail
scale: 3/8" = 1'

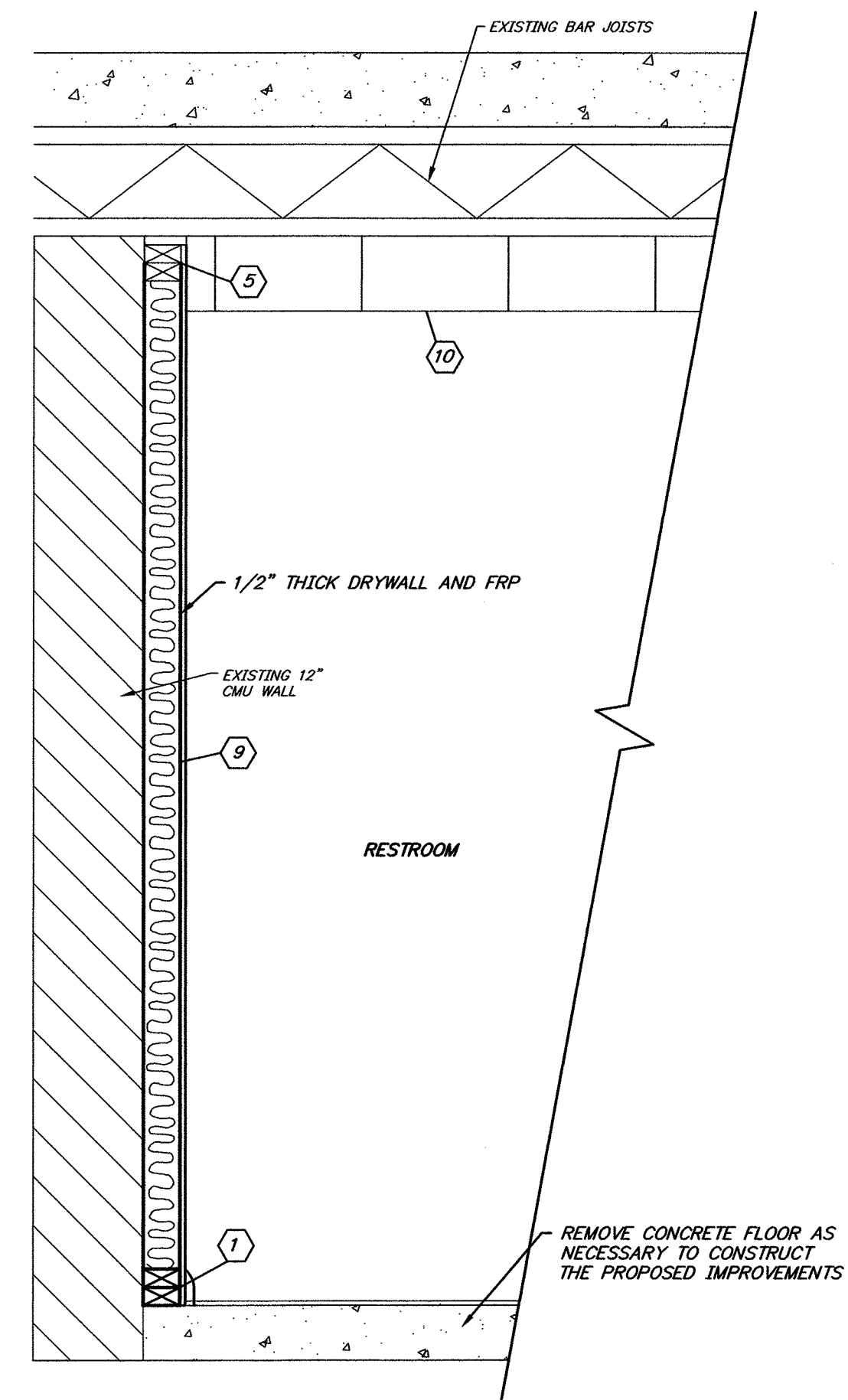
General Notes – Plumbing

1. INSTALL PLUMBING FIXTURES NOTED AS "EQUIPPED & INSTALLED FOR HANDICAPPED USE" TO BE FULLY ACCESSIBLE TO PHYSICALLY HANDICAPPED PERSONS. COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 - 1992 "ACCESSIBLE & USEABLE BUILDINGS & FACILITIES" & / OR GOVERNING CODE. CONTRACTOR MUST VERIFY WATER PRESSURE TO INSURE FLUSH VALVES WILL OPERATE AT THIS SITE.
2. CLEAN ALL LINES BEFORE INSTALLATION. INSTALL FIXTURES COMPLETE WITH ALL RELATED TRAPS, TRIM, ETC. EXPOSED PIPING CHROME-PLATED. PROVIDE STOP VALVES IN ALL WATER LINES AT EACH FIXTURE. PROVIDE VACUUM BREAKERS ON ALL FLUSH VALVES IF REQUIRED.
3. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS & WORK INCLUDED IN THE CONTRACT. FOR THE EXACT LOCATION & MOUNTING HEIGHT OF FIXTURES REFER TO FLOOR PLANS OR MANUFACTURERS SPECIFICATIONS. THE LICENSED PLUMBING CONTRACTOR SHALL PREPARE THE PLUMBING RISER DIAGRAM AND SUBMIT AND OBTAIN A PLUMBING PERMIT. ALL PERMIT FEES SHALL BE WAIVED.
4. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERTS PRIOR TO THE INSTALLATION OF WORK.
5. ALL HOT & COLD WATER LINES SHALL BE INSTALLED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET.
6. ALL PIPING RUNS SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES PRIOR TO THE INSTALLATION OF SAME.
7. PROVIDE STOP VALVES ON ALL WATER SUPPLY BRANCHES TO ALL FIXTURES.
8. PLUMBING CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING PLUMBING CONNECTION.
9. ALL PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE & HEALTH CODES, & NATIONAL PLUMBING CODE. ALL MATERIALS, SANITARY PIPING, VENTS, AS APPROVED BY LOCAL AUTHORITIES.
10. REFER TO SPECIFICATIONS FOR DETAILED SPECIFICATIONS FOR PIPING, VALVES, WATER, SANITARY SEWER SERVICES AND THE PROVISIONS OF SAME.
11. THE EXISTING CONCRETE FLOOR SHALL BE REMOVED AND REPLACED AS NECESSARY TO CONNECT THE PROPOSED FIXTURE SANITARY SEWER SERVICES TO THE EXISTING SANITARY SEWER SERVICES.

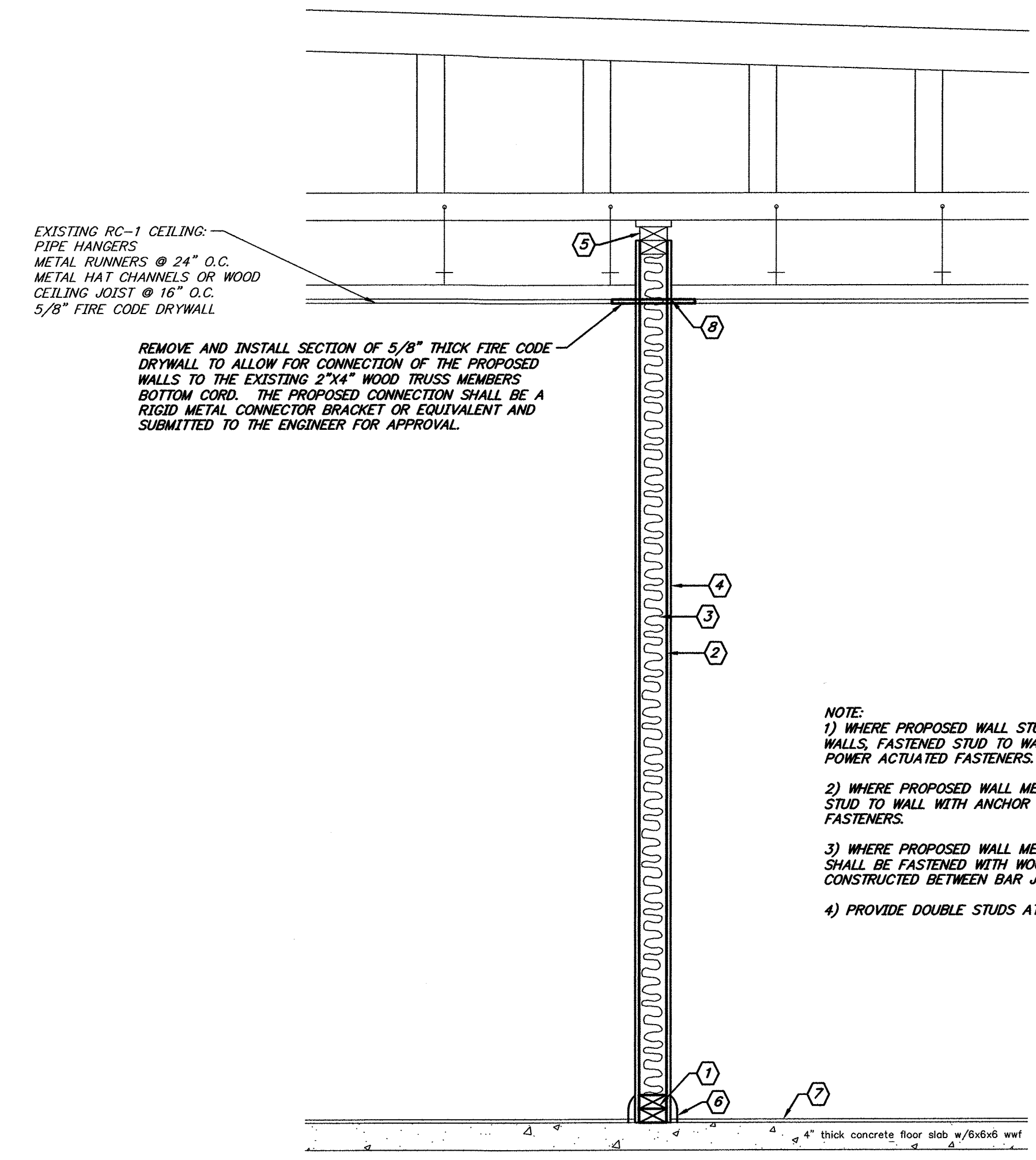
Plumbing Fixture Schedule							
FIXTURE	MANUFACTURER SERIES NUMBER	WATER CLOSET AND URINAL					ACCESSORIES AND FEATURES
		BOWL TYPE	OUTLET	FLUSH VALVE	SEAT	CARRIER	
WC 7	AMERICAN STANDARD CADET 3 RIGHT HEIGHT MODEL 537.1BES1	FLOOR MOUNTED ELONGATED	FLOOR	3" FLUSH VALVE (POWER WASH)	AMER. STAND. ELONGATED HEAVY DUTY OPEN FRONT SEAT MODEL 5901.10055.020		EQUIPMENT & INSTALLATION FOR HANDICAP USE 1.28 GPF W.C. COLOR SHALL MATCH
UR 7	AMERICAN STANDARD 1.0 GPF 6541.132	WALL-HUNG ELONGATED WASH OUT	BACK	SLOAN 186-1XL	N/A	JAY R. SMITH	EQUIPMENT & INSTALLATION FOR HANDICAP USE 1.28 GPF W.C. COLOR SHALL MATCH
FIXTURE	MANUFACTURER SERIES NUMBER	SINK / LAVATORY					ACCESSORIES AND FEATURES
		BOWL TYPE	FAUCET	SUPPLY PIPE	TRAP	CARRIER	
LAV 7	ADA VANITY WITH SOLID SURFACE PLUMB-SINK-ADA-SS BY PLUMB CABINETS OR EQUIVALENT	INTEGRAL BOWL	AMER. STAND. 1.340M.107	FLEX W/ KEY ANGLE STOP	CHROME PLATED BRASS		EQUIPMENT & INSTALLATION FOR HANDICAPPED USE METEDED FAUCET WITH UP-5-OW-ARED. AMER. STAND. 7723.018 GRID DRAIN WITH 1 1/4" TAPPIECE
FIXTURE	MANUFACTURER SERIES NUMBER	FLOOR DRAIN / STRAINER					ACCESSORIES AND FEATURES
		MATERIAL	TYPE	INLET	OUTLET	FREE AREA	
FD 7	JAY R. SMITH MFG. CO. 2005-A	NICKEL / BRONZE CAST IRON	STRAINER-P	3"	3"	9 SQ. IN.	DUCO CAST IRON BODY & FLASHING COLLAR w/ NICKEL BRONZE STRAINER. SEE PAGE OPENINGS. PROVIDE TRAP PRIMER FOR EACH FLOOR DRAIN (1/2" G.W.)
FIXTURE	MANUFACTURER SERIES NUMBER	CLEAN OUT					ACCESSORIES AND FEATURES
		MATERIAL	SIZE				
CO 7	JAY R. SMITH MFG. CO. 402IL	NICKEL / BRONZE	4"				MOUNT FLUSH w/ FLOOR
FIXTURE	MANUFACTURER SERIES NUMBER	SHOWER					ACCESSORIES AND FEATURES
SH 7		SHOWER SHALL BE CLASSIC 500 36" X 36" X 74" ALOUVE SHOWER KIT WITH SHOWER WALL AND SHOWER PAN IN HIGH GLOSS. FOUNDATIONS SINGLE-HANDLE 1-SPRAY SHOWER IN CHROME AND 1 INCH 36" X 36" X 74" SEMI-FRAMELESS CONTEMPORARY PIVOT SHOWER DOOR IN CHROME WITH 1/4" PAIN TEMPERED GLASS PANEL & CHROME HANDLE OR EQUIVALENT AND GATEY ROUND NO-CALK WHITE P.V.C. SHOWER DRAIN WITH 4 1/2" ROUND SNAP-IN STAINLESS STEEL DRAIN COVER OR EQUIVALENT					

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PROFESSIONAL WHOSE NAME AND SIGNATURE APPEARS HEREON.

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REV.	DATE:	DESCRIPTION	DRWN.	CHKD.
Plumbing Plan				
Police Department Renovations At The Municipal Building 229 Trenton Avenue				
Borough of Barrington Camden County, New Jersey				
DATE: 05/15/23	DRAWN BY: T.D.	CHKD. BY:	SCALE: AS NOTED	
PROJECT No. 11-411BR1116	FIELD BOOK/PAGE:	SHEET No. 10 OF 11		
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER				
NJPE No. 32853		PAPE No. 036608-E		
NJ PROFESSIONAL PLANNER No. 4076				
				
80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300		phone: (609) 762-8111 fax: (609) 763-1691 www.keyengineers.com		
		DATE 8/30/23		

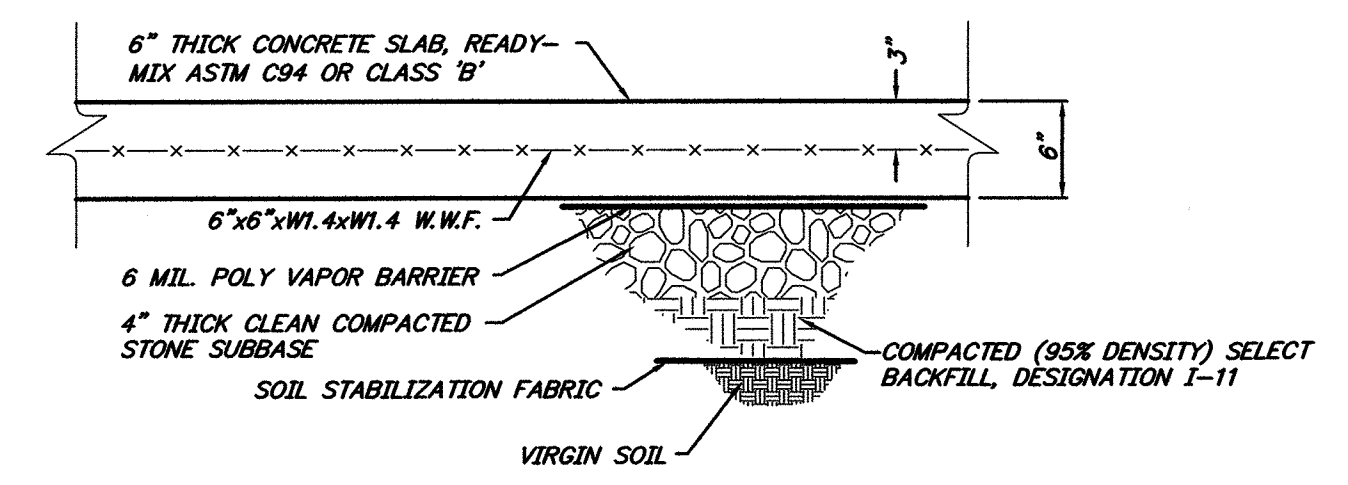


1
11
Typical Section View:
scale: 1" = 3/4"



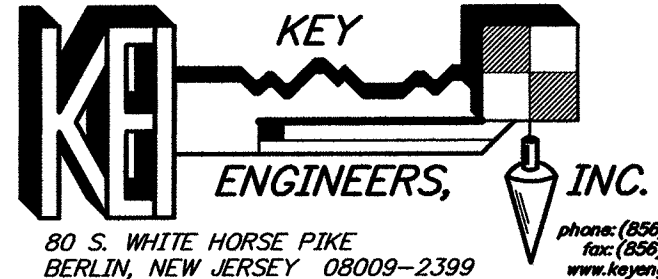
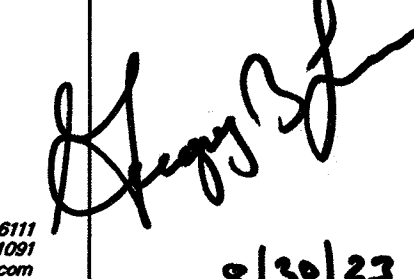
2
11
Typical Wood Frame Wall Section View:
scale: 1" = 3/4"

- Typical Wood Frame Wall Legend:**
- 1 DOUBLE 2" X 4" PRESSURE TREATED WOOD PLATE ON CONTINUOUS SILL SEALER; FASTEN TO CONCRETE FLOOR WITH POWER ACTUATED FASTENERS
 - 2 2" X 4" WOOD STUD WALL, 12" ON CENTER
 - 3 R-13 BATT INSULATION FOR SOUND REDUCTION PURPOSES
 - 4 5/8" THICK GYPSUM BOARD (BOTH SIDES), FIRE RESISTANT BOARD
 - 5 DOUBLE 2" X 6" WOOD PLATE TO BE FASTENED TO BAR JOINTS ABOVE SUSPENDED CEILING WITH WOOD SUPPORT BRACKETS CONSTRUCTED BETWEEN BAR JOINTS.
 - 6 4" HIGH VINYL COVE BASE MOLDING
 - 7 CARPETING (COMMERCIAL GRADE NYLON CARPET TO MATCH EXISTING)
 - 8 TRIM AND RECONSTRUCT EXISTING SUSPENDED CEILING FRAME WORK AND TILES TO MEET PROPOSED WALL LOCATION
 - 9 WOOD FRAME WALL/CHASE, 2" X 4", 16" O.C. W/R-13 INSULATION, 1/2" THICK MOLD RESISTANT DRYWALL (INSIDE RESTROOMS 106, 111 & 157) AND FRP COVERING COVERING (5/8" THICK FIRE RESISTANT DRYWALL, OUTSIDE RESTROOM 157)
 - 10 ACOUSTICAL SUSPENDED CEILING SYSTEM
- PAINT ALL WALL SURFACES WITH ONE (1) PRIMER COAT AND TWO (2) FINISH COATS



Typical Non-Structural Concrete Floor Section
SCALE: 1" = 1'

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1. 08/30/23		GENERAL REVISIONS		T.D.	G.B.F.
REV.	DATE:	DESCRIPTION		DRWN.	CHKD.
Sections and Details					
Police Department Renovations At The Municipal Building 229 Trenton Avenue Borough of Barrington Camden County, New Jersey					
DATE: 05/15/23		DRAWN BY: T.D.		CHKD. BY:	SCALE: AS NOTED
PROJECT No. 11-411BR1116		FIELD BOOK/PAGE:		SHEET No. 11 OF 11	
GREGORY BLASE FUSCO PROFESSIONAL ENGINEER NJPE No. 32853 PAPE No. 036608-E NJ PROFESSIONAL PLANNER No. 4076					
 80 S. WHITE HORSE PIKE BERLIN, NEW JERSEY 08009-2399 CERTIFICATE OF AUTHORIZATION #24GA28041300				 DATE 8/30/23	