ADDENDUM NO. 1
November 18, 2011

Project: **City Hall Public Restrooms**
Sausalito, California
Don Olsen Architects

From: Loren Umbertis
Division Manager, Public Works
Sausalito, CA 94965

This Addendum forms a part of the Contract Documents and modifies the original bidding documents as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

CHANGES TO BIDDING REQUIREMENTS

1. Project Manual Section 00520 – Contract Time. Change duration of contract time to 90 (ninety) days from Notice to Proceed of Project to Substantial Completion

2. Project Manual Section 00520 – Liquidated Damages. In the event Liquidated Damages are assessed against contractor, the amount assessed per day will be $500

3. Project Manual Section 00805 – Supplementary Conditions – Hazardous Materials - A Hazardous Materials Report and Conclusions is attached to this Addendum. Contractor shall review Report and shall include in Bid Price all costs for removal of hazardous substances as detailed in the Report.

CHANGES TO CONDITIONS OF THE CONTRACT

4. Contractor shall include as part of their bid price an Owner's Allowance of $20,000.00. Allowance will be used for items not currently included in Contract Documents including Fire Sprinkler and Alarm System, Radiant Heating and other changes. Any unused portion of Owner's Allowance will be returned to Owner at Completion of Project.

CHANGES TO SPECIFICATIONS

5. Specifications now include Section 15500 – Fire Sprinkler System. Contractor shall obtain services of competent Fire Sprinkler Installer. Contractor shall submit Fire Sprinkler Plan as a Deferred Submittal with the City, Building Department and Fire Department. Contractor's Bid shall include consultant costs for design, submittal and plans for Fire Sprinkler

System. City of Sausalito will review plans and issue a Change Order for Costs related to installation of Fire Sprinkler System.

CHANGES TO DRAWINGS

6. Drawing Sheet A0.0 – Construction Management Plan, note #3 – Hours of Operation are 8 a.m to 6 p.m. Monday through Friday and 9:00 a.m. to 5 p.m. on Saturdays. Now work will be allowed on Sundays or Holidays.

7. Contractor shall disregard comments referencing Radiant Heating in Drawings, and shall not include bids or pricing for Radiant Heating in the Drawings.

8. Contractor shall review drawings for any and all changes to the Project, and any changes shall be understood and agreed upon to be included in Bid Price

QUESTIONS FROM CONTRACTORS AND RESPONSES

9. **Q: Will entire Ceiling be demolished as part of Project?** A: No, Ceiling will only be demo'd to extent necessary. Contractor shall be responsible for cutting and patching as necessary.

10. **Q: Additional Details regarding flooring are necessary. Will they be included?** A: Additional details regarding the flooring are now included on Sheet A4.0

11. **Q: Handryers are noted on one page but not another, could architect please clarify?** A: Architect has included additional information regarding the Hand Dryers on the electrical plans.

12. **Q: Fire Sprinklers and Fire Alarm Devices are not shown. What is Contractor's responsibility?** A: Contractor shall obtain services of qualified Sprinkler Installer. Contractor shall include price to obtain services of Qualified Sprinkler installer. This price shall include cost to design of Fire Sprinkler System as required by Fire Marshal and over Code Requirements, Submittal Costs, Plans but shall not include actual cost to install Fire Sprinkler System. Contractor shall coordinate their work with City of Sausalito and their designated Fire Alarm System representative to assist in installation of Fire Alarm System. Fire Alarm System Costs shall not be included by Contractor in Bid Price.

END OF ADDENDUM NO. 7

GENERAL NOTES:

1. RULES & REGULATIONS: All work shall conform to the 2010 editions of the California Building Code (CBC), 2010 California Plumbing and Mechanical Codes. 2010 California Energy and 2010 Electrical Codes, complete with all applicable State of California amendments, codes and regulations for each edition including State of California title 24 & a.b. 163 regulations and City of Sausalito Security Ordinance, and City of Sausalito Fire District Ordinance.

2. CONTRACTOR Shall be responsible for construction in conformance with the approved plans, specifications, and all code requirements under which the plans and specifications were approved.

3. MEASUREMENTS: Do not scale drawings. Contractor shall verify all dimensions shown on the drawings, any discrepancy shall be reported to the Architect prior to commencement of related work.

4. EXISTING CONDITIONS: It is the contractors responsibility to verify all applicable existing conditions, including but not limited to water damage, termite damage, dry-rot, of any other framing or structural issues that may vary from those shown on the drawings, and report any discrepancies to the Architect prior to commencement of related work.

5. SURVEY: Contractor shall have a licensed land surveyor stake the perimeter and/or corners of the building prior to the commencement of work and shall report any discrepancies to the Architect.

6. TREATED LUMBER: All wood, including posts, within 6 inches of the ground shall be pressure treated or foundation-grade redwood.

7. PRESSURE TREATED : Any area framed with pressure treated material, the connection hardware must be hot-dippedzinc-coated. Fasteners in preservative treated wood must be approved silicon bronze, or copper, stainless steel or hot-dipped zinc-coated steel per CBC 1811.3. This includes the foundation plates.

8. CUT OR NOTCHED WOOD: Any cut or notched wood shall be sealed with epoxy sealer.

9. SOLES AND PLATES: Where plumbing, heating or other pipes are placed in or partially placed in a partition, necessitating the cutting of soles or plates, a metal tie not less than 16 gage galvanized and 1 1/2" wide shall be fastened to each plate across and to each side of the opening with not less than six 16d nails.

10. FIRE BLOCKING: Provide fire blocking at ceilings, floors, furred down ceilings, showers, soffits, and at concealed draft openings not to exceed 10 maximum. CBC 708

11. TYPE 'X' GYPSUM: Type 'X' gypsum board is to be used at alll walls and soffits of enclosed usable space under stairs.

12. METAL FLASHING shall be copper, unless otherwise noted.

13. VAPOR BARRIER shall be roll-on urethane membrane by Division7 (or approved equal).

14. EGRESS WINDOW: Every sleeping room shall be provided with an emergency egress window or door per U.B.C. 3104 :
    - A. minimum net clear opening height of 24 inches.
    - B. minimum net clear opening width of 20 inches.
    - C. minimum net clear operable area of 5.7 sq. ft.
    - D. maximum finished sill height of 44 inches.

15. GLASS: All glass shall conform with human impact and safety requirements as per U.B.C. 2406

16. PAINTING: Provide 1 coat primer and 2 finish coats of paint at all interior and exterior surfaces.

PLUMBING /ELECTRICAL /MECHANICAL NOTES:

1. FIXTURE LOCATIONS: Confirm location of all fixtures and outlets with architect.

2. PLUMBING VENTS: All new plumbing vents shall terminate not less than 3'-0" from any property line. Vents must also terminate at least 4' below, 1' above, and 4' horizontally from any door or operable window or air inlet.

3. RELIEF VALVE: Provide water heater pressure/temperature relief valve with drain to outside of building or other approved location. CPC 608 No part of drain may be installed where it would be subject to freezing. CPC 608.5

4. BACKFLOW PREVENTION: Provide a non-removable backflow prevention device on all exterior hose bibbs and lawn sprinkler/irrigation systems. CPC 603.4

5. METAL WATER PIPING and other interior metal piping shall be bonded to the service equipment enclosure pursuant to CEC 250-80 (a) & (b). The points of attachments to the bonding jumper shall be accessible.

6. BATHROOM EXHAUST FANS shall be connected directly to outside and be capable of 5 air changes per hour. (CBC 1203.3)

7. GROUNDING ELECTRODE SYSTEM: Electrician shall provide and locate the grounding electrode system conforming to CEC 250-81.

8. SMOKE DETECTORS: Smoke detectors shall be powered by building wiring with battery back-up. Provide smoke detectors in the following areas (as applicable): at each story and basement; within each bedroom and centrally located in the corridor or area giving access to each sleeping area; in each room where non-bedroom ceiling heights exceed the hall ceiling height by more than 2'.

9. BATH OUTLETS: Provide at least one 20 amp circuit for bathroom outlets with no other outlets on the circuit. CEC 210-52(d).

10. BATHROOM LIGHTING - All hardwired lighting shall be high efficacy (fluorescent) OR be controlled by a manual-on motion sensor (half baths included).

11. ALL OTHER ROOMS LIGHTING (except closets <70 sq. ft.) - shall be high efficacy (fluorescent) OR controlled by manual-on motion sensor OR be controlled by a dimmer.

12. OUTLETS: In every habitable room and electrical outlet shall be installed so that no point along the floor line in a wall space is more than six feet measured horizontally, from any outlet in that space, including any wall space two feet or more in width, the wall space occupied by fixed panels in exterior walls, and fixed room dividers. NEC Article 210-52.

13. LOAD CALCULATIONS: Contractor to submit electrical load calculations for the sizing of the electrical panels to the building department for approval prior to installation.

14. ARC-FAULT CIRCUIT INTERRUPTER: All branch circuits that supply 125-volt single-phase, 15- and 20- ampere receptacle outlets installed in bedrooms shall be provided by an arc-fault circuit interrupter(s). 2001 CEC Article 210-12(b).

DEMOLITION NOTES

1. Contractor shall carefully check the stability of all elements of the building before doing any work on or demolition to the existing structure. The contractor shall brace or strengthen any portions of the structure that may be weakened by demolition or construction activities. The contractor shall be solely responsible for jobsite safety and preservation of existing construction not slated for demolition.

2. All demolition and removal work shall conform to all applicable codes and regulations, including U.B.C, Chapter 44 and A.N.S.I. A10.6-1983 "Safety Requirements for Demolition". The Contractor shall bear sole responsibility for identifying, testing and disposing of any hazardous materials encoutered in the demolition process in accordance with all applicable codes, ordinances and regulations.

3. Contractor shall verify with owner or architect any item to be salvaged and reused. Damage to any such item will be the sole responsibility of the contractor.

4. Removal of wall finishes, floor finishes, and ceiling finishes shall include all material down to framing, exterior sheathing or subfloor.

CITY OF SAUSALITO REGULATIONS

1. OVERHEAD SERVICES: Underground all overhead services. Per Sausalito Ordinance 851

2. DEBRIS BOX SERVICE: All debris box service must be by Bay City Refuse.

3. ENCROACHMENT PERMITS: Contractor shall be responsible for any necessary encroachment permits for all work in the public right-of-way such as construction staging, temporary power, porta potty, debris box, termination of site drainage into City curb and gutter, sewer work, trenching, installation of underground utilities (electric, gas, water, etc.) per SMC 8.04.090. Contact City Engineering Division at 415-289-4112 for details.

4. INSPECTIONS: All inspections agencies and/or individuals and shop fabricators shall be approved by the Building Department prior to the work being preformed. Submit all documentation for approval.

5. SUPPLIES & STORAGE: All work and storage of material to be located on private property. Loading and unloading of supplies to take place on driveway apron. At no time will any vehicle be located on the public road way.

6. REVISIONS: Any revision(s) to the approved plan set shall be submitted to the Sausalito Community Development Department for review. Inspections for revised work shall not be requested until the revision is approved by the Sausalito Community Development Department. Allow a minimum of 2 weeks for the Sausalito Community Development Department review.

CONSTRUCTION MANAGEMENT PLAN

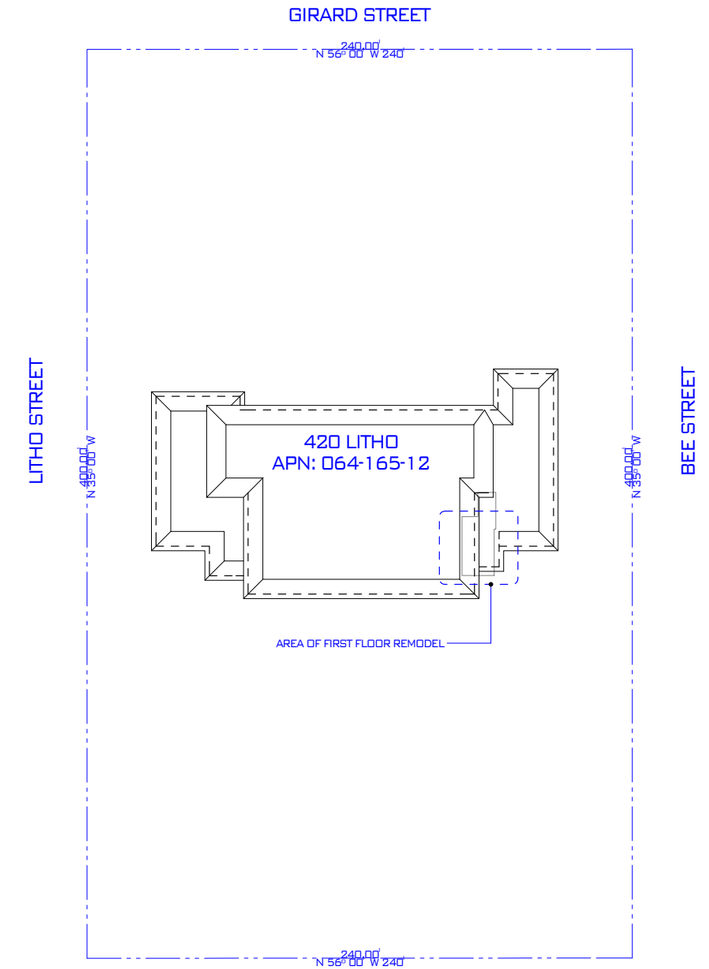
1. JOB SIGN: A sign shall be placed at the jobsite to notify the residence of the prime contractor and major subcontractor and related phone numbers.

2. CONSTRUCTION MANAGEMENT COORDINATOR: The name and phone number of a Construction Management Coordinator shall be posted at the site and shall be available to respond to complaints and questions from area residents.

3. HOURS OF OPERATION: Work at the site shall be limited to the hours of 8:00 AM to 4:30 PM, Mondays through Fridays, and 9:00 AM through 4:00 PM on Saturdays. No work shall be permitted on Sundays and Holidays without prior approval from the Community Development Agency.

4. CONSTRUCTION VEHICLES: All material deliveries and removal from the construction site shall follow a route, both to and from the site, agreed upon by the Community Development Agency and the Construction Management Coordinator. It is the Contractors responsibility to see that these locations and routes are adhered to.

5. TRAFFIC MANAGEMENT: Vehicular traffic shall not be delayed for more than 5 minutes for more than four consecutive days. Access for emergency vehicles shall be maintained at all times (minimum 12'-0" in width). Traffic management measures shall include the following:
   A. Traffic control measures such as flag persons, signage, etc. shall be utilized to ensure that vehicular traffic and pedestrian movement will continue to occur safely during construction periods.
   B. In the event of additional construction is occurring on the street it is the responsibility of both/all Contractors to coordinate all construction activities to avoid conflict in deliveries and/or construction activities. Coordination shall be made with the notification of the Public Works Department.



SITE PLAN
SCALE: 1" = 30'

N

DIRECTORY

OWNER: City of Sausalito, 420 Litho St., Sausalito, CA 94965

ARCHITECTURE: Don Olsen & Assoc., 666 Bridgeway, Sausalito, CA 94965, 415.332.0297

PROJECT INFORMATION

PROJECT LOCATION: 420 Litho Street, City Hall

PROJECT DESCRIPTION: Interior Remodel @ existing breakroom, transforming breakroom into new Mens & Womens Bathrooms.

			ZONING ALLOWABLE
A.P.N.		064-165-12	
ZONING		PI	
OCCUPANCY		B	
SPRINKELED		SPRINKLED	
CONSTRUCTION TYPE		5A	
PARCEL SIZE		96,000 SQ.FT.	
SETBACKS	FRONT:	109'-0"	NA
	SIDE:	20'-0"	11'-0"
	REAR:	261'-0"	20'-0"
HEIGHT		22'-0"	25'-0" MAX.
BLDG. COVERAGE (%)		1,575 SQ. FT (.016%)	28,800 SQ. FT. (30% MAX.)
IMPERVIOUS SURFACE (%)		NA	NA
FLOOR AREA (F.A.R)		2,379 SQ. FT (.024 %)	28,800 SQ. FT. (30 % MAX.)

SHEET INDEX

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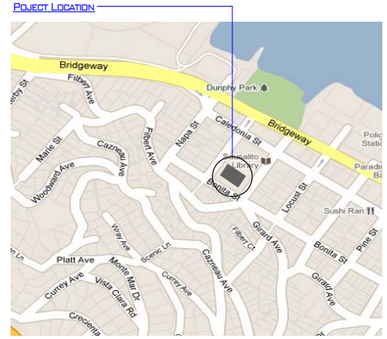
VICINITY MAP

PROJECT LOCATION



DON OLSEN ARCHITECTS & ASSOCIATES
666 BRIDGEWAY, SAUSALITO, CA 94965 TEL: 415/332-0297
FAX:415/332-8869 EMAIL: DON@DKGARCHITECTS.COM

CITY HALL BATHROOMS
420 LITHO STREET
SAUSALITO, CA 94965
APN#: 064-165-12

REVISIONS	NO.
B.P. REV. 7/12/11	1
B.P. REV. 7/21/11	2
B.P. REV. 8/30/11	3
ADDENDUM	1

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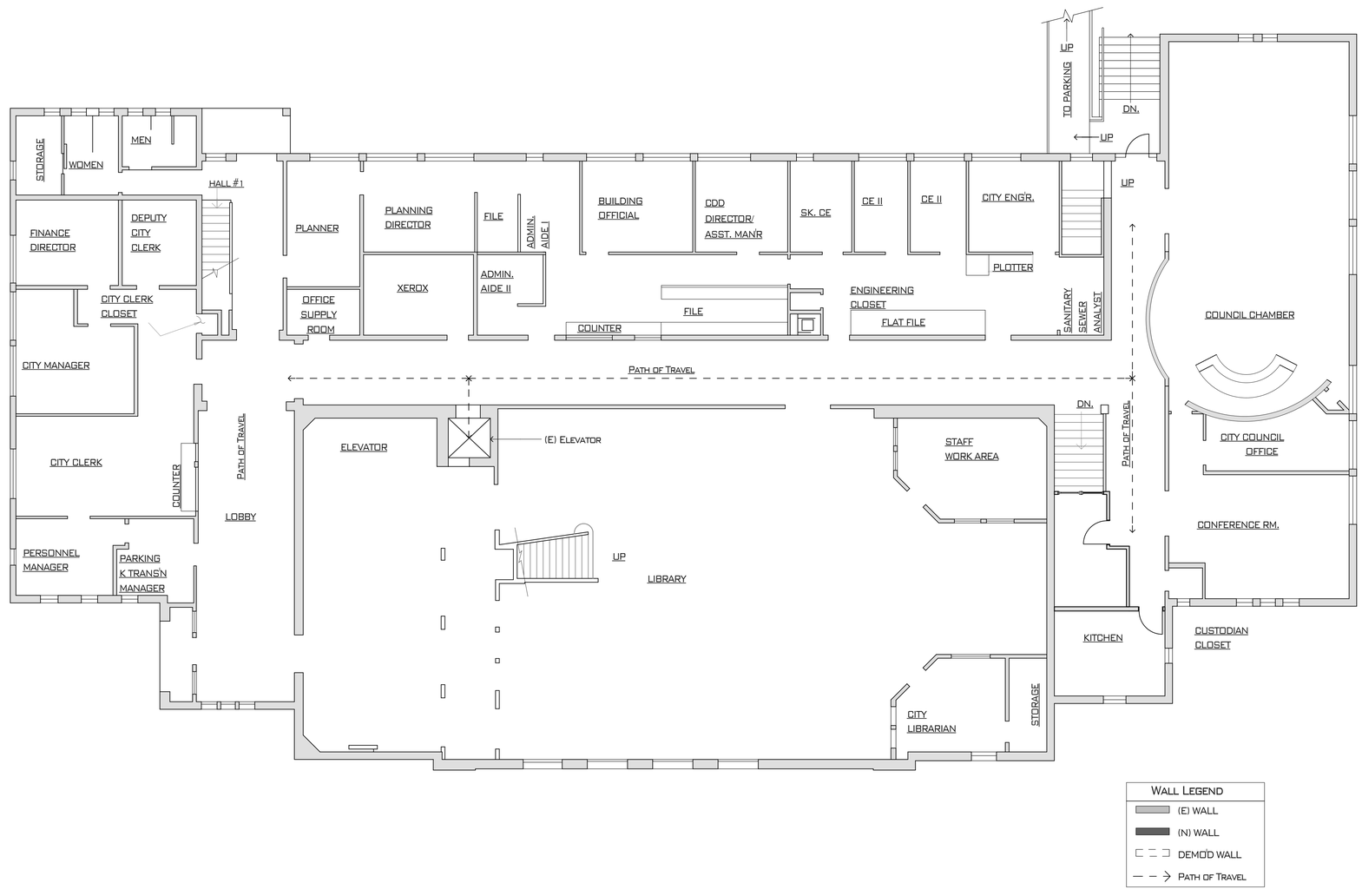
JULY 07, 2011



ADMINISTRATIVE FLOOR ADA PATH OF ACCESSIBLE TRAVEL

SCALE: 1/8" = 1'-0"

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ARCHITECTS & ASSOCIATES
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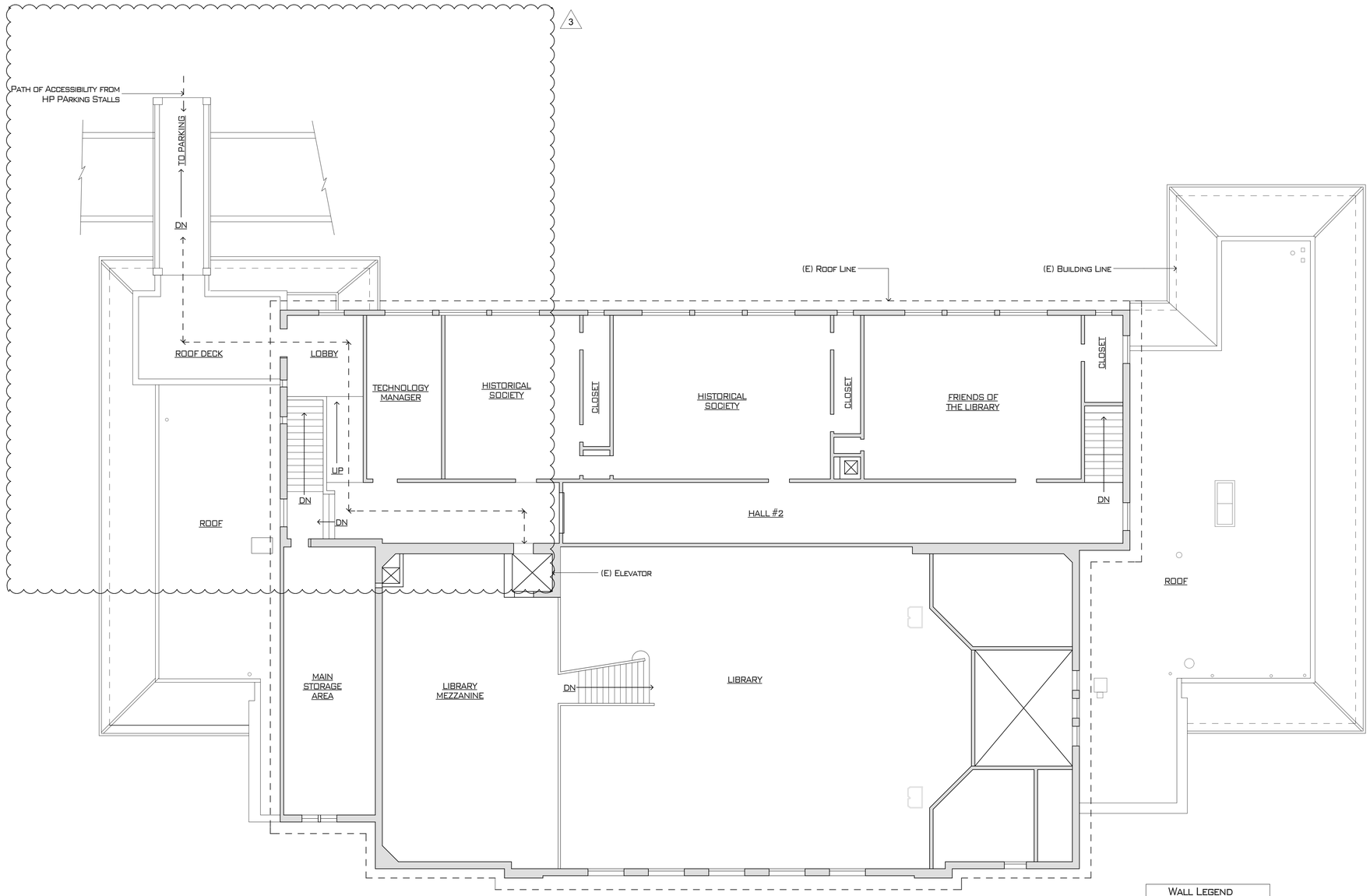

HISTORICAL SOCIETY FLOOR ADA PATH OF ACCESSIBLE TRAVEL

SCALE: 1/8" = 1'-0"

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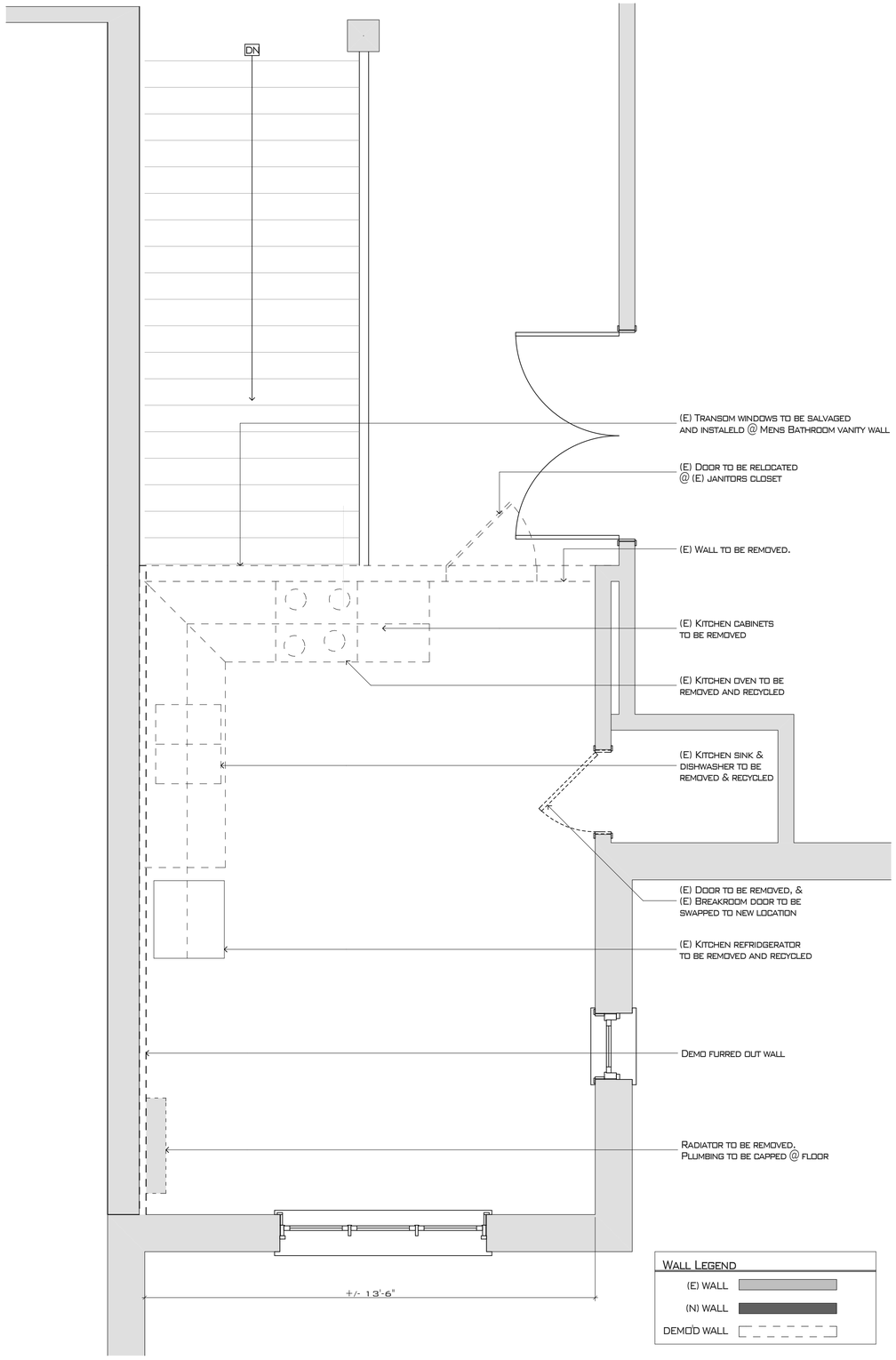
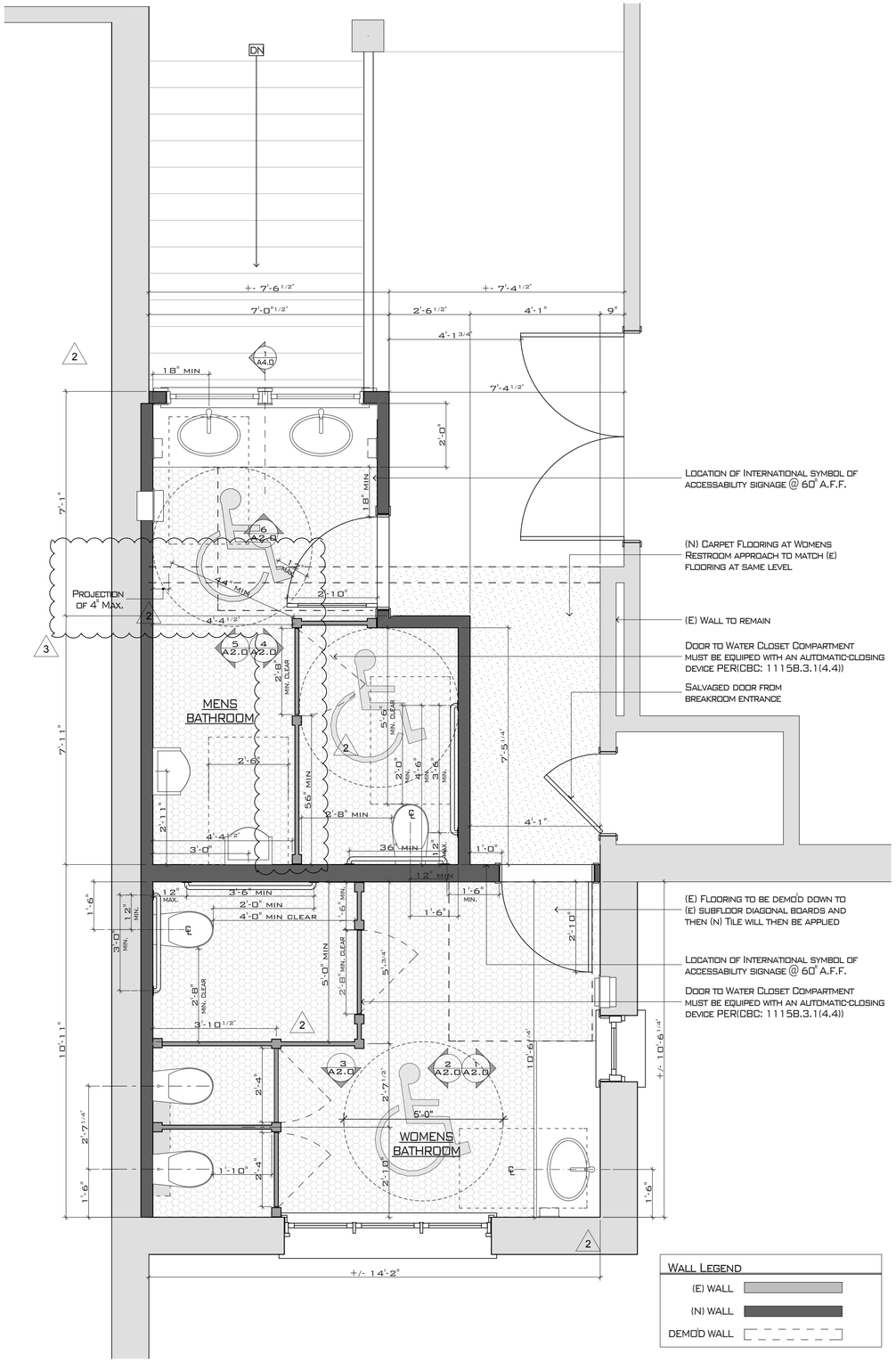


Demo Floor Plan

SCALE: 1/2" = 1'-0"



Restroom Floor Layout

SCALE: 1/2" = 1'-0"

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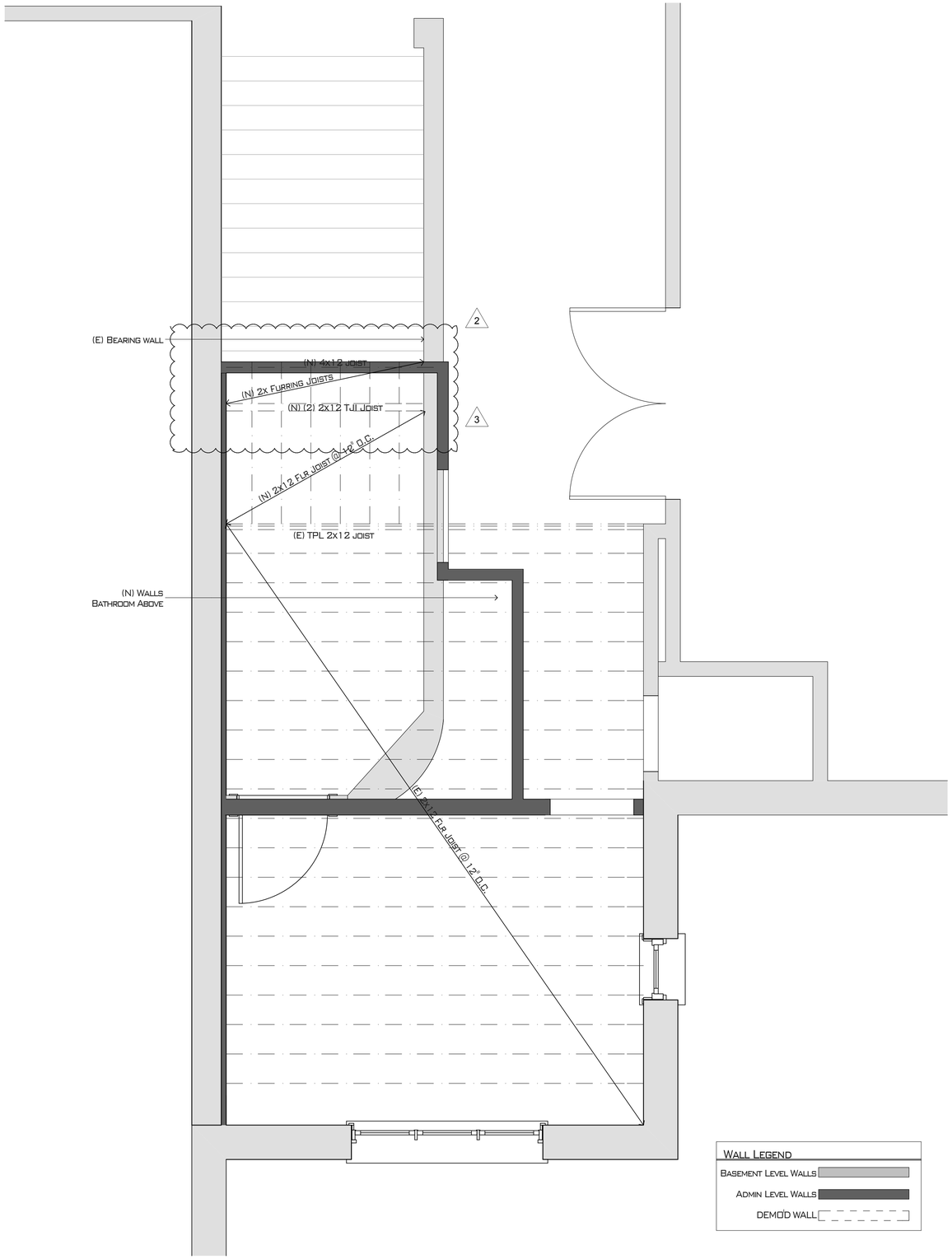

FLOOR FRAMING PLAN

SCALE: 1/2" = 1'-0"

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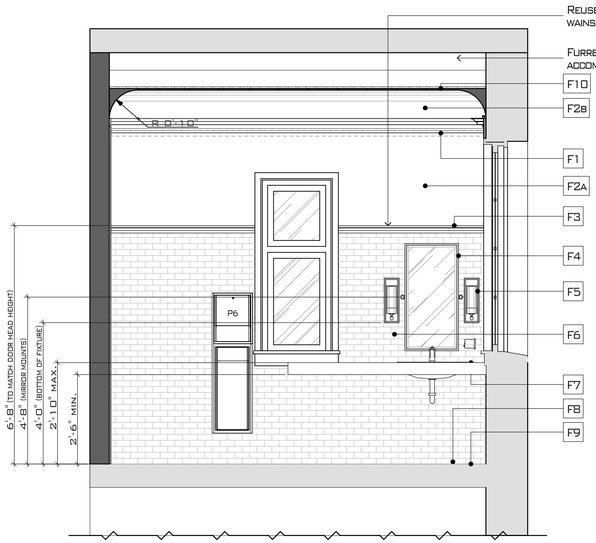
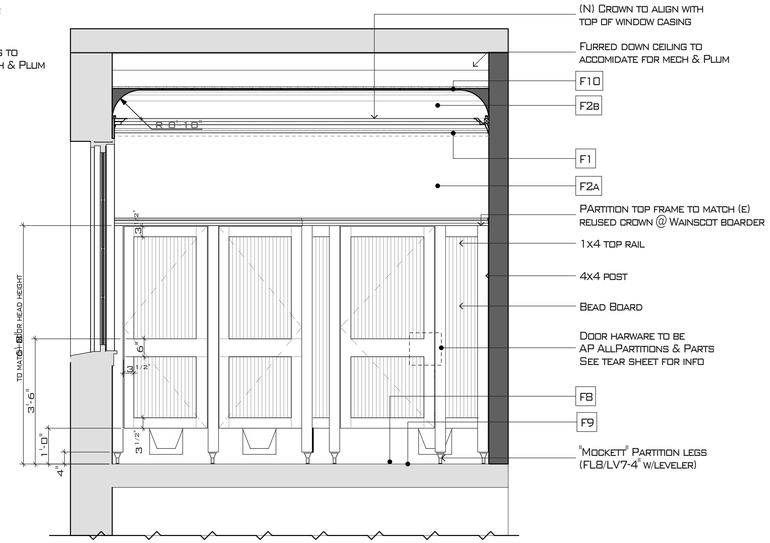


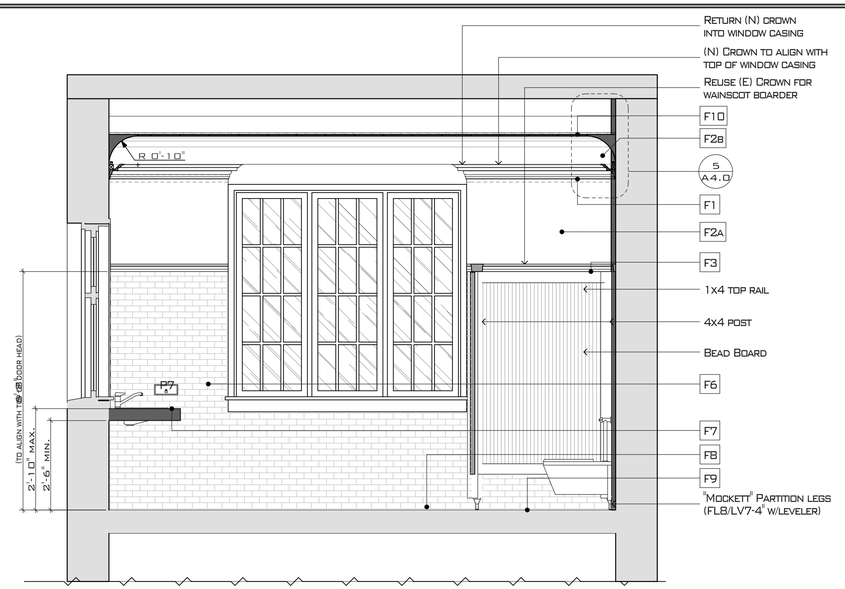
1 WOMENS BATHROOM NORTH ELEVATION

SCALE: 1/2" = 1'-0"



2 WOMENS BATHROOM SOUTH ELEVATION

SCALE: 1/2" = 1'-0"



3 WOMENS BATHROOM EAST ELEVATION

SCALE: 1/2" = 1'-0"

4 MENS BATHROOM NORTH ELEVATION

SCALE: 1/2" = 1'-0"

5 MENS BATHROOM SOUTH ELEVATION

SCALE: 1/2" = 1'-0"

6 MENS BATHROOM WEST ELEVATION

SCALE: 1/2" = 1'-0"

INTERIOR FINISH SCHEDULE

ROOM	MARK	FINISH	MANUFACTURER / MODEL	NOTES
MEN'S / WOMEN'S	F1	COVE LIGHTING CROWN MOLDING	WISH I HAD THAT (AB169; CROWN MOLDING - SEE ATTACHED SPEC SHEET)	OR EQUAL
MEN'S / WOMEN'S	F2A	HIGH-GLOSS PAINT	TO MATCH UPPER PAINT COLOR (COLOR # TO BE DETERMINED ON SITE)	
MEN'S / WOMEN'S	F2B	SEMI-GLOSS PAINT	TO MATCH LOWER PAINT COLOR (COLOR # TO BE DETERMINED ON SITE)	
MEN'S / WOMEN'S	F3	REUSED CROWN MOLDING	RECYCLE (E) CROWN TO REUSE AT SPECIFIED LOCATION	IF AMOUNT OF CROWN IS INSUFFICIENT, USE SAME STYLE OF CROWN
MEN'S / WOMEN'S	F4	VANITY MIRROS	RESTORATION HARDWARE (RECTANGULAR PIVOT MIRROR:231001O4-CHR)	
MEN'S / WOMEN'S	F5	LIGHTING SCONCE	RESTORATION HARDWARE (KELLER SCONCE- CHROME)	
MEN'S / WOMEN'S	F6	SUBWAY TILES	SUBWAY TILE OUTLET: (WHITE CERAMIC SUBWAY TILES-SEE ATTACHED SPEC SHEET)	OR EQUAL
MEN'S / WOMEN'S	F7	CAESAR STONE	CAESAR STONE: (MISTY CARRERA-4140)	OR EQUAL
MEN'S / WOMEN'S	F8	COVE BASE	SUBWAY TILE OUTLET: (WHITE CERAMIC COVE BASE)	TO MATCH SUBWAY TILE IN COLOR
MEN'S / WOMEN'S	F9	2" CERAMIC HEAXAGONAL TILE	MOSAIC TILE SUPPLIES: (LGHX-2203 - SEE ATTACHED SPEC SHEET)	OR EQUAL
MEN'S / WOMEN'S	F10	ACOUSTIC CEILING TILES	ECOPHON ACOUSTICAL TILES (ECOPHON: FOCUS-F 600MMX600MM-WHITE-ASTM C 423)	GLUE TO CEILING, TO BE FLUSH WITH CEILING COVE

INTERIOR FINISH NOTES

2

BATHROOM FLOORING NOTES:
1. FLOORING IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. FLOOR TILE TO HAVE 6" BASE W/ INTEGRAL 3/8" MIN RADIUS COVE.
3. (E) FLOORING TO BE DEMO'D DOWN TO (E) SUB-FLOOR DIAGONALS

BATHROOM WALL TILE NOTES:
1. TILES ARE TO BE LIGHT COLORED.
2. TILES ARE TO HAVE A DURABLE WEAR LAYER.
3. TILES ARE TO BE SMOOTH, NON GROOVED, CLEANABLE SURFACES.
4. TILES ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. TILES ARE TO BE LAYED WITH A "ZERO" GROUT LINE
7. TILE TO RUN 48" HIGH ON BATHROOM WALLS, UNLESS OTHERWISE NOTED

WATER CLOSET PARTITION PANEL NOTES:
1. PANELS ARE TO BE LIGHT COLORED.
2. PANELS ARE TO BE 1'-0" ABOVE FINISH FLOOR.
3. PANELS ARE TO BE PAINTED W/ HIGH GLOSS PAINT.

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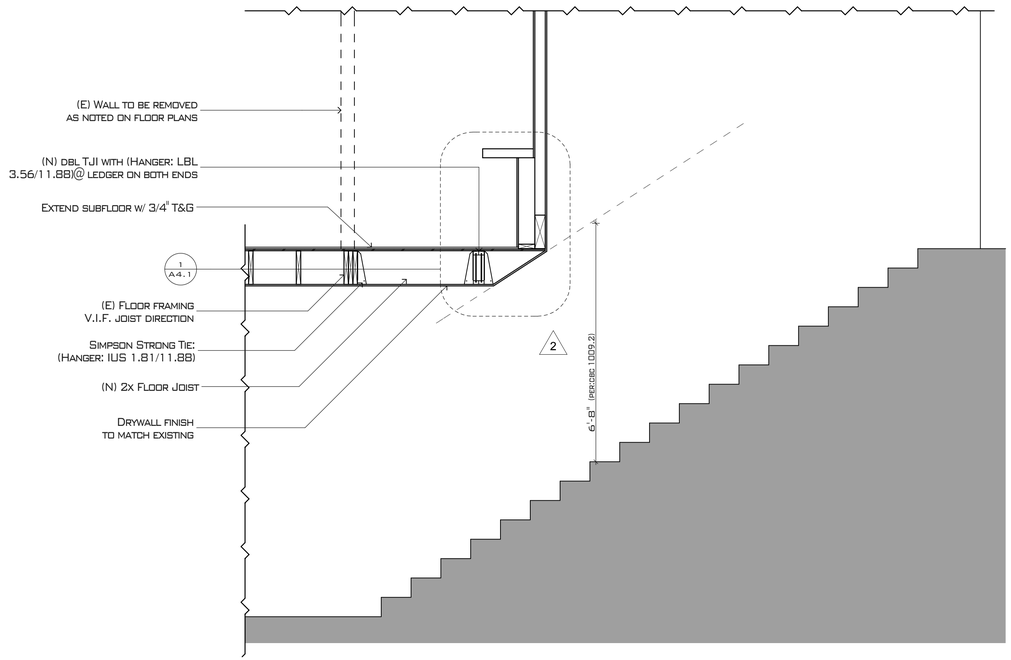
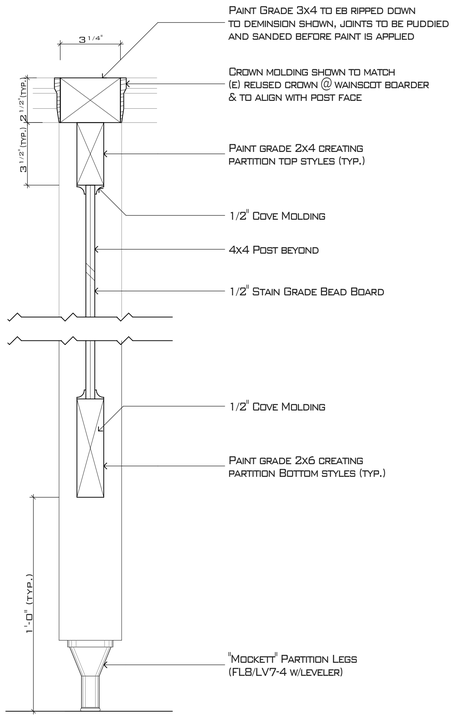


1 STAIRWAY / MENS BATHROOM SECTION

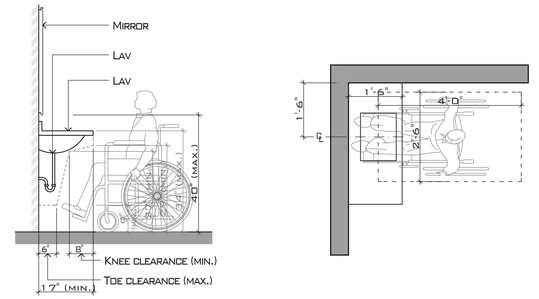
SCALE: 1/2" = 1'-0"



2 PARTITION DETAIL (TYP.)

SCALE: 3" = 1'-0"

General Requirements:
1. HOTWATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHAPR OR ABRASIVE SURFACES UNDER LAVATORIES.



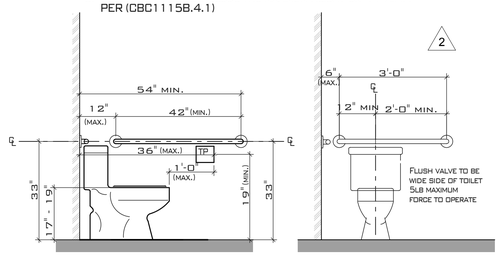
SINK APPROACH REQUIREMENTS

PLAN APPROACH REQUIREMENTS

3 VANITY ADA REQUIREMENTS (TYP.)

SCALE: 1/2" = 1'-0"

General Requirements:
1. GRAB BARS SHALL HAVE A GRIPPING SURFACE WITH A DIAMETER OF 1-1/4" - 1-1/2" LOCATED WITH A SPACE BETWEEN THE WALL AND GRAB BAR OF 1-1/2".
2. PROVIDE AN ELONGATED OPEN FRONT TYPE WATER CLOSET PER(CBC408.2)
3. FLUSH CONTROL TO INCLUDE THE MAXIMUM HEIGHT OR 44" A.F.F. PER (CBC1115B.4.1)

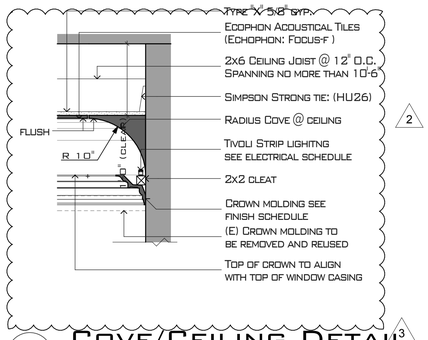


SIDE APPROACH REQUIREMENTS

FRONT APPROACH REQUIREMENTS

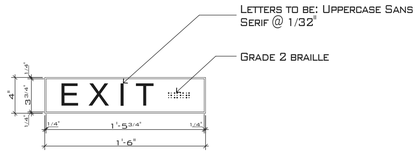
4 ADA TOILET REQUIREMENTS (TYP.)

SCALE: 1/2" = 1'-0"



5 COVE/CEILING DETAIL

SCALE: 1" = 1'-0"



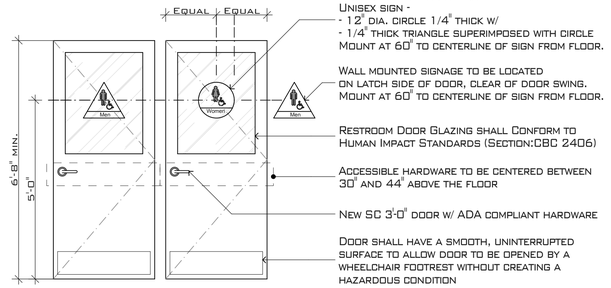
GENERAL NOTES:

1. CHARACTERS WILL CONTRAST WITH BACKGROUND LIGHT CHARACTERS WITH DARK BACKGROUND, OR DARK CHARACTERS WITH A LIGHT BACKGROUND. CHARACTERS AND BACKGROUND OF SIGNS IS EGGSHELL, MATTE, OR NON-GLARE FINISH. (1003.2.8.6 & 11178.5.2)
2. LETTERS ON SIGNS HAVE A WIDTH-TO-HIEGHT RATIO BETWEEN 3:5 AND 1:1, AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 TO 1:10. (1003.2.8.6 & 11178.5.3)
3. MOUNTING HEIGHT IS 60" FROM THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. (1003.2.8.6 & 1117B.5.7)
4. BRAILLE DOT TO BE RAISED A MINIMUM OF 1/40" (1003.2.8.6 & 11178.5.6)

6 TACTILE SIGNAGE

SCALE: 1 1/2"= 1'-0"

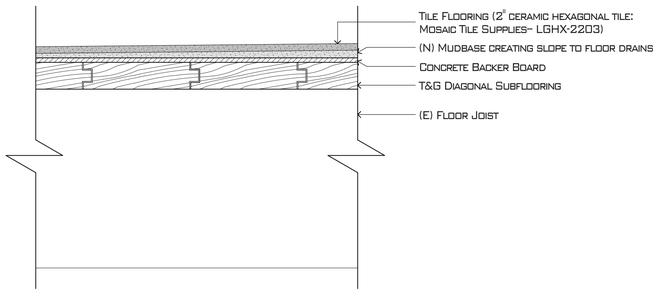
General Requirements:
REQUIRED FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE NOT TO EXCEED 15LBF. OTHER THAN REQUIRED FIRE DOORS, INTERIOR AND EXTERIOR DOORS SHALL HAVE A MINIMUM OPENING FORCE OF 5 LBF.(CBC 11338.2)



BATHROOM INTERIOR VIEW

7 M/W DOOR DETAIL @ RESTROOMS (TYP.)

SCALE: 1/2" = 1'-0"



8 FLOOR SECTION

SCALE: 3" = 1'-0"

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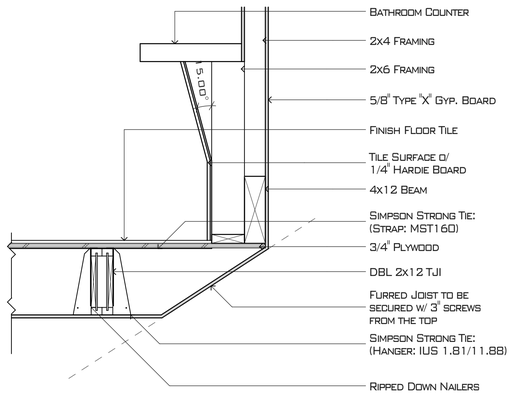
CITY HALL BATHROOMS

420 LITHO STREET
SAUSALITO, CA 94965
APN#: 064-165-12

REVISIONS	NO.
B.P. REV. 7/12/11	1
B.P. REV. 7/21/11	2
B.P. REV. 8/30/11	3
ADDENDUM	1

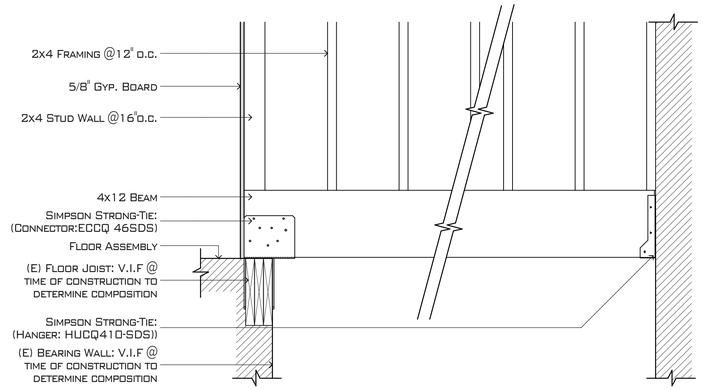
A4.0

JULY 07, 2011



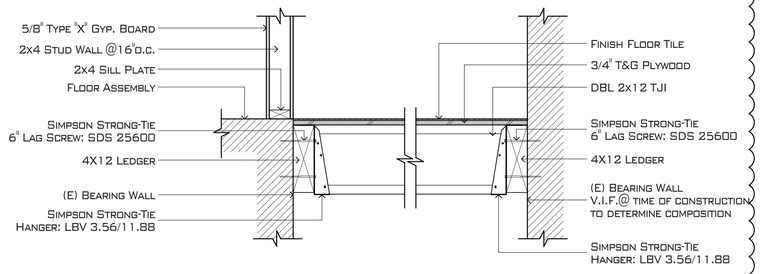
1 FRAMING DETAIL @ BATHROOM

SCALE: 1" = 1'-0"



2 4x12 SILL PLATE @ MEN'S BATHROOM

SCALE: 1" = 1'-0"



3 LEDGER DETAIL @ DBL TJI GIRDER

SCALE: 1" = 1'-0"

3

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ELECTRICAL SCHEDULE

ROOM	MARK	FIXTURE	MANUFACTURER / MODEL	NOTES
MEN'S / WOMEN'S	E1	LED COVE LIGHTING	TIVOLI STRIP LIGHTING: (COVELUM LED: CLL-SF-6-WW-12)	SEE DETAIL:5/A4.0 FOR INSTALLATION TECHNIQUE
MEN'S / WOMEN'S	E2	EXHAUST FAN	PANASONIC WHISPER CEILING FV-30VQ3	TO BE WIRED W/ LIGHTING
MEN'S / WOMEN'S	E3	VANITY WALL SCONCE	RESTORATION HARDARE SCONCE: (KELLER SCONCE-POLISHED CHROME)	SEE INTERIOR ELEVATION FOR HIEGHT AND LOCATION OF SCONCE
MEN'S / WOMEN'S	E4	HAND DRYER	XLERATOR HAND DRYER (MODEL: XL-SB W/ RECESSED KIT)	HIGH-SPEED HAND DRYER W/ RECESSED KIT

3

ELECTRICAL NOTES

1. LIGHTING IN BATHROOMS TO PROVIDED A MINIMUM OF 20-FOOT CANDLES IN EACH.
2. ALL ELECTRICAL RECEPTACLE OUTLETS AND SWITCHES SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR PER(CBC:1117.6 (5))
3. ALL RESTROOM RECEPTACLES OUTLETS TO BE GFCI PROTECTED PER(CEC:210.8)
4. (2) 800 AMP SERVICES ARE LOCATED IN THE BASEMENT OF THE (E) BUILDING.

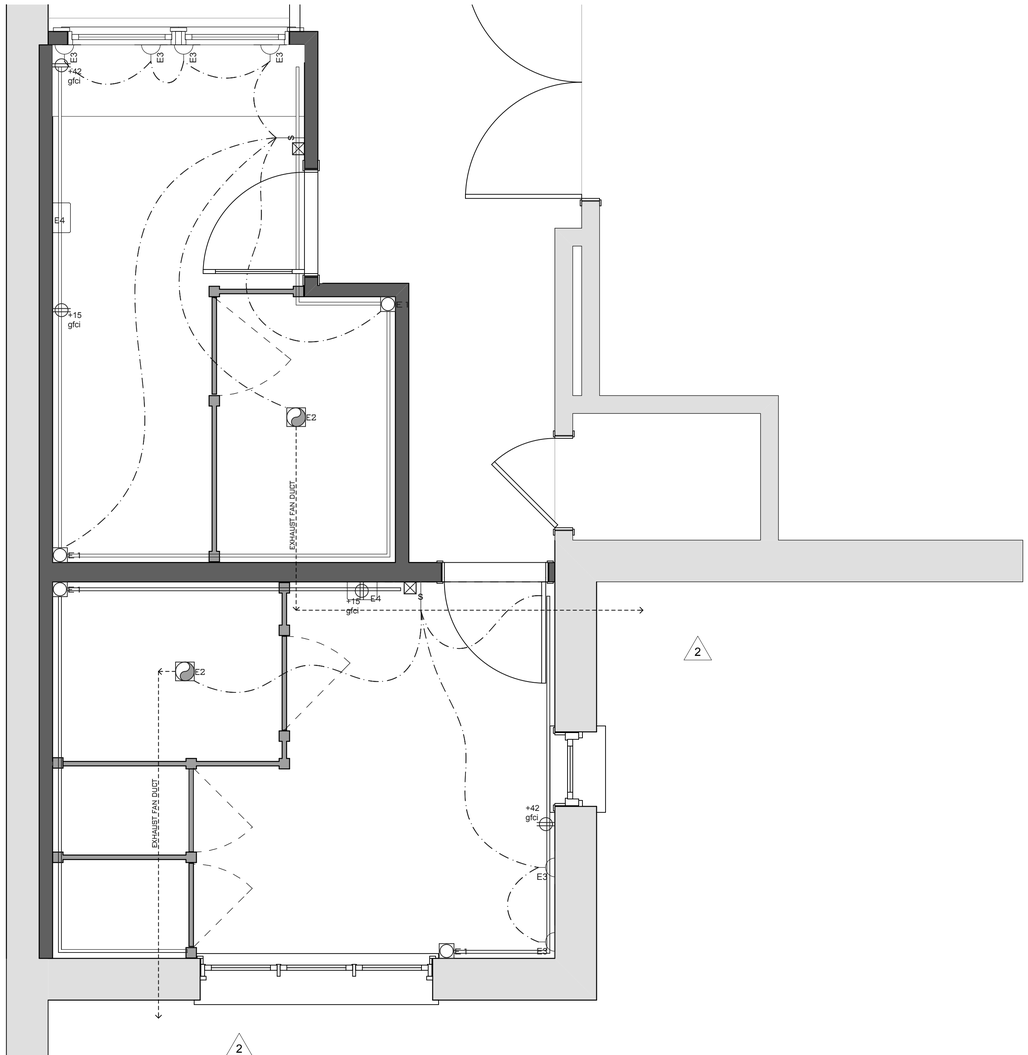
PLUMBING SCHEDULE

ROOM	MARK	FIXTURE	MANUFACTURER / MODEL	NOTES
MEN'S / WOMEN'S	P1	TOILET	DURAVIT WALL HUNG TOILET: (018209.00.00.1 - WHITE)	DURAVIT SEAT COVER: (006661- WHITE) SEE P-12 FOR FLUSH MECHANISM
MEN'S / WOMEN'S	P2	SINK	DURAVIT COUNTER SUNK BASIN: (033643.00.00 - WHITE)	WITH OVER FLOW AND TRAP PLATFORM
MEN'S / WOMEN'S	P3	FAUCET	AMERICAN STANDARD ELECTRONIC PROXIMITY FAUCET (SELECTRONIC:6057.102 W/ MIXING VALVE)	
MEN'S	P4	URINAL	DURAVIT URINAL: (082444.00.92.1)	SEE P-13 FOR FLUSH MECHANISM
MEN'S / WOMEN'S	P5	FLOOR DRAIN W/ SELF PRIMER		
MEN'S / WOMEN'S	P6	TRASH / TOWEL DISPENSER	BOBRICK CONTURA SERIES SURFACE MOUNTED PAPER TOWEL DISPENSER / WASTE RECEPTACLE: (B-43699)	
MEN'S / WOMEN'S	P7	SOAP DISPENSER	BOBRICK CONTURA SERIES SURFACE MOUNTED SOAP DISPENSER: (B-4112)	
MEN'S / WOMEN'S	P8	GRAB BAR	BOBRICK GRAB BAR: 1 1/4" DIA. STAINLESS STEEL (48" IN LENGTH)	
MEN'S / WOMEN'S	P9	GRAB BAR	BOBRICK GRAB BAR: 1 1/4" DIA. STAINLESS STEEL (36" IN LENGTH)	
MEN'S / WOMEN'S	P10	TOILET PAPER DISPENSER	BOBRICK CONTURA SERIES RECESSED MULTI-ROLL TP DISPENSER: (B-4388)	
MEN'S / WOMEN'S	P11	SEAT COVER DISPENSER	BOBRICK CONTURA SERIES RECESSED SEAT COVER DISPENSER: (B-3013)	
MEN'S / WOMEN'S	P12	CONCEALED FLUSH TANK	TOTO CONCEALED FLUSH TANK (TE3LN31-SS)	HIGH EFFICIENCY TOILET: ECOPOWER FLUSHMETER VALVE, 1.28 GPF
MEN'S / WOMEN'S	P13	URINAL AUTO FLUSH SYSTEM	TOTO CONCEALED FLUSH TANK (TELL3GN11-SS)	ECOPOWER URINAL FLUSHMETER VALVE, 1.28 GPF
MEN'S / WOMEN'S	P14	RADIANT HEATING & FLOOR	TYPICAL RADIANT SYSTEM INTEGRATED INTO FLOOR JOIST	RADIANT FLOOR SYSTEM TO USE EXISTING BOILER SYSTEM

3

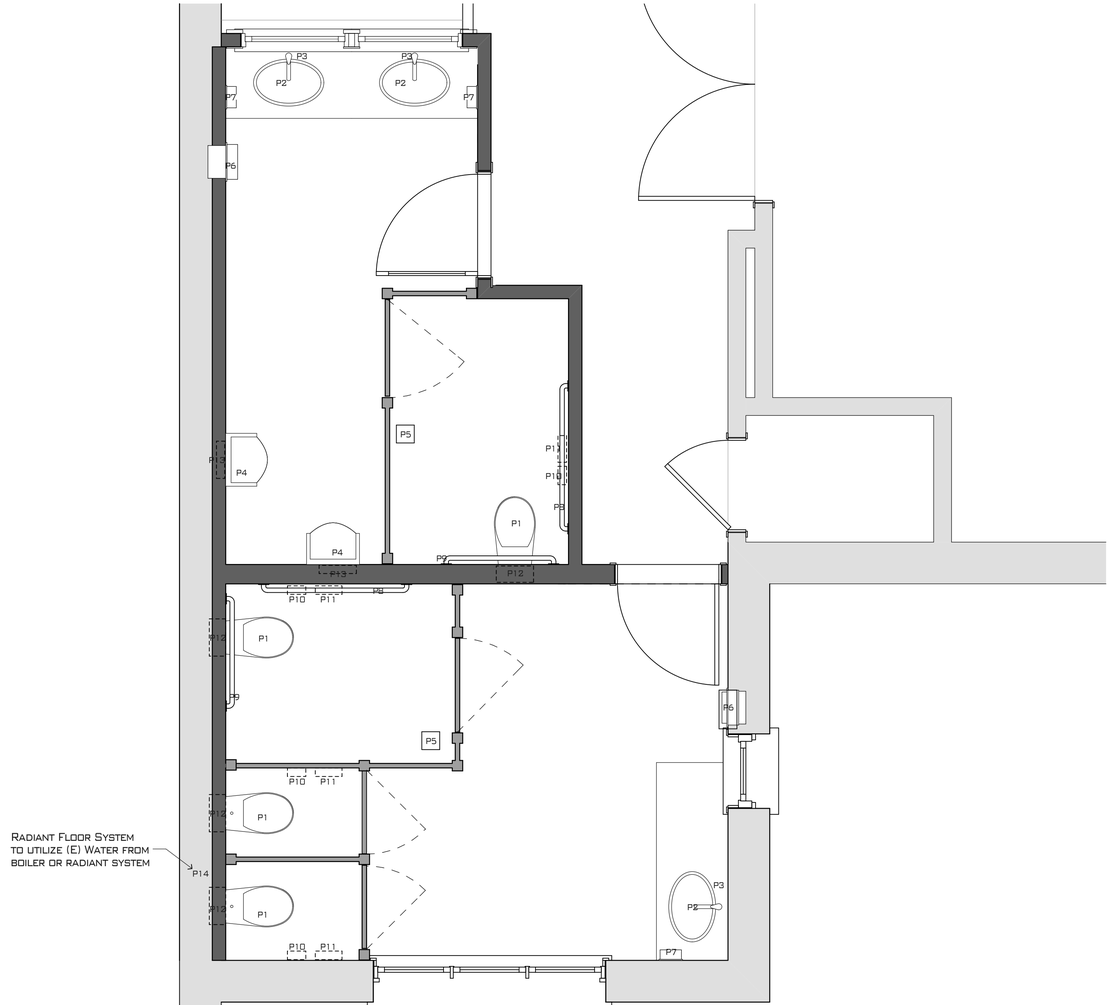
PLUMBING NOTES

1. CONTRACTOR IS TO INCLUDE ALL PARTS & ACCESSORIES AND LABOR NEEDED TO PROVIDE A FULLY FUNCTIONAL LAVATORY WITH FAUCET. INCLUDING BUT NOT LIMITED TO, DRAINS, DRAIN STOPPERS AND ALL OTHER REQUIRED PARTS.



ELECTRICAL LAYOUT

SCALE: 1/2" = 1'-0"



PLUMBING LAYOUT

SCALE: 1/2" = 1'-0"

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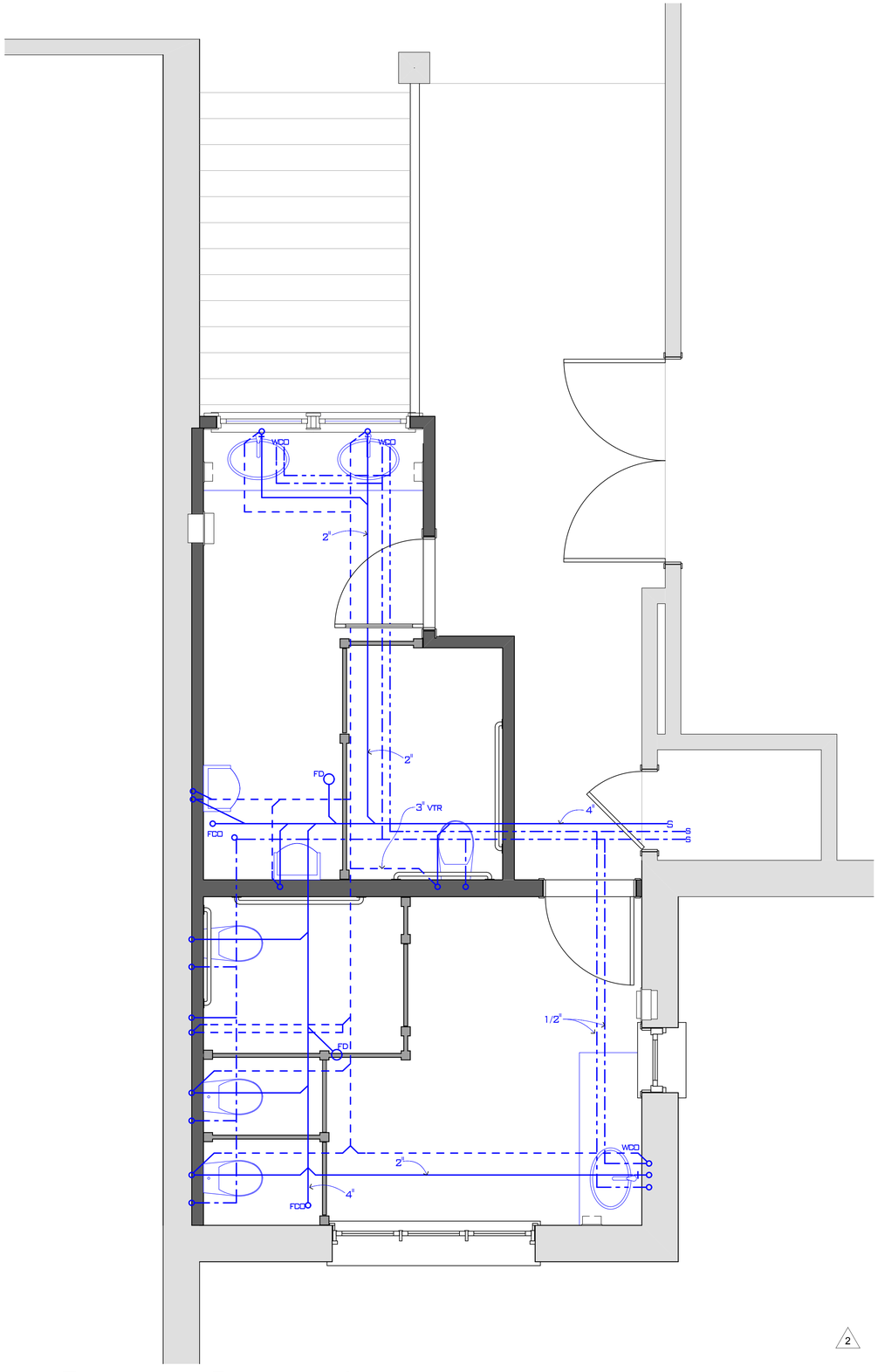
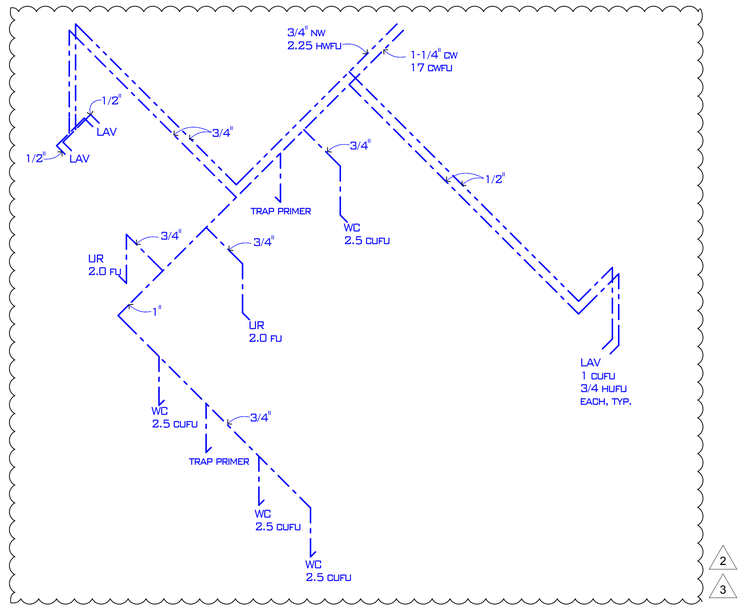


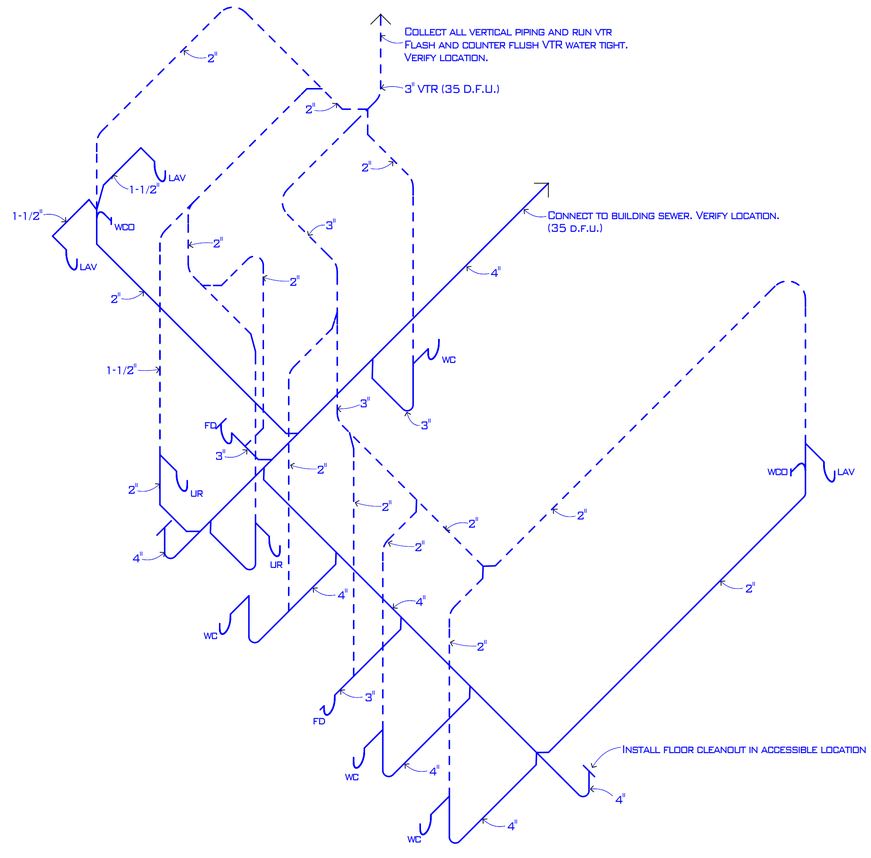
1 PLUMBING DIAGRAM LAYOUT

SCALE: 1/2" = 1'-0"



2 PLUMBING HW & CW RISER DIAGRAM

SCALE: 1/2" = 1'-0"



3 PLUMBING SINGLE-LINE AXONOMETRIC

SCALE: 1/2" = 1'-0"

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JULY 07, 2011

15500 - FIRE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.01 SCOPE

A. Review the Contract Conditions and Division One, General Requirements, which contain information and requirements that apply to this Section.

1.02 DESCRIPTION OF WORK

A. Work Included: Work under this section includes, but is not necessarily limited to:
   1. All labor, materials, tools, appliances and equipment that are required to furnish and install the complete automatic sprinkler installation for this section of the work and as specified in the following specifications including that which is reasonably inferred.
   2. Install automatic sprinkler system tied to existing building fire sprinkler system as indicated on the Drawings and in these specifications including all piping, heads, valves, water flow switches and supervisory devices.
   3. Connect to the fire water service at the site of the building.
   4. Complete set of fire sprinkler drawings and calculations as required to obtain a building permit.
   5. Repair of all damage done to premises as a result of this installation, and removal of all debris left by those engaged in this installation.
   6. Testing and adjusting of piping and equipment.
   7. Cleaning of all equipment and materials at time building is turned over to the Owner.
   8. All insurance, fees, and taxes required and applicable.
   9. Cutting, patching, and sawcutting, core-drilling.
   10. Excavation, trenching, and backfilling.
   11. All rigging, hoisting, transportation, and associated work necessary for placement of all equipment in its final location.
   12. Preparation of Project Record Documents.

1.03 RELATED SECTIONS

1.04 GENERAL REQUIREMENTS

A. Visit the site of the work, take measurements and such other information as may be necessary for an intelligent bid. No allowance shall subsequently be made for any extra expense due to failure or neglect on the part of the bidder to make such examination, including other difficulties visually observed during site visit.

B. Secure all permits, licenses and inspections required to begin, perform and complete the work. At completion of the work, deliver to the Owner a certificate of all inspections acceptances issued by the Jurisdictional Authorities, approving the complete installation. Permits and fees will be paid by Owner.

C. Follow manufacturer's directions in all cases where manufacturers of equipment used furnish directions covering points not shown on the Drawings or specified herein.

D. Install all work in strict accordance with the latest rules of any local or state codes and ordinances, local Fire Department and NFPA. No extra charge will be paid for furnishing items required by the regulations but not specified herein. Rulings and interpretations of the agencies shall be considered a part of the regulations if commonly known to the trade prior to the submittal of bids.

E. Quiet and vibration free operation of all equipment is a requirement of this installation. Properly adjust, repair, balance or replace any equipment producing objectionable noise or vibration in any of the occupied areas of the building including providing additional brackets, bracing, etc., to prevent objectionable noise or vibration.

F. Operation and Maintenance Instructions: Submit all instruction sheets, bulletins and all pertinent information for proper operation and adjustment of each and every piece of equipment furnished under provisions of Section 01770. This information shall be bound in a hard cloth covered, adjustable loose-leaf binder such as McBee and shall be typed and indexed into sections and labeled for easy reference. Information which does not concern equipment furnished, shall not be included.

G. Carefully coordinate all pipe runs with all other Divisions and the Architect prior to installation.

H. Be responsible for damage to any of this work before acceptance. Securely cover all openings, apparatus, fixtures and appliance, both before and after setting into place, to prevent obstructions in the pipes and breakage or disfigurement of equipment. Should the equipment become damaged, restore it to its original condition and finish before final acceptance without change in contract cost.

I. Be responsible for, and repair all damage to, any part of the premises, caused by leaks or breaks in pipe or equipment furnished or installed for a period of one (1) year after date of acceptance of the work.

J. Provide freeze protection measures for all piping systems exposed to weather and/or outside the buildings per NFPA 13 and NFPA 13R requirements. Wherever possible, use sidewall sprinkler heads at the building wall to cover overhangs, porches, etc.

K. Comply with provisions of Section 02316 for Trenching and Backfill.

1.05 SUBMITTALS

A. Sprinkler Shop Drawings and Calculations: The entire building above and below the ceiling and overhangs shall be fully sprinklered in accordance with NFPA 13 and the requirements of the local Fire and Building Departments. System shall be hydraulically calculated in accordance with NFPA 13 for an ordinary hazard classification and in accordance with guidelines associated with an essential services facility. Submit shop drawings, approved by the local Fire Department, showing the complete piping and sprinkler head layout for the sprinklered areas, including complete hydraulic computer

calculations. These Drawings shall indicate main riser location, accurate locations of all piping, sprinkler heads, drain apparatus associated with these systems in respect to new architectural conditions, structural conditions, lighting layouts, diffuser layouts, plumbing, mechanical, and electrical layouts. Show sprinkler head locations on latest architectural reflected ceiling plan with all lighting and mechanical air diffusers and registers shown. Submittals without this drawing will be automatically rejected.

B. Approval of the same Drawings and calculations must first be obtained from the local Fire Department before submittal to the Architect. Drawings shall be to the same scale, same sheet size, and shall bear a title block, all in accordance with Architectural Drawings. Architectural backgrounds shall be in accordance with the latest Architectural Drawings. If, upon preliminary submittal of drawings, there are corrections to be made, such as head locations, pipe locations, riser location, drain locations, etc., corrections shall be made and the corrected drawings, along with revised calculations, shall be resubmitted for approval without extra cost. These drawings shall be corrected and approved before starting work. The decision of the Architect shall be final on all items. These drawings and calculations, upon final approval, and including all "As-Built" drawings and calculation changes at completion of the job, shall become a part of the contract documents. Calculations shall be done on standard 8-1/2" x 11" sheets, all in accordance with NFPA 13, and shall indicate pipe numbers; beginning and end node points; all referenced on the shop drawings, and system demand curves. Calculations shall be bound and indexed in a loose-leaf binder same as for operating and maintenance instructions. The drawings and the hydraulic calculations shall be signed by a fire protection engineer who is licensed in the State of California.

C. Absolutely no fire sprinkler piping shall be installed prior to approval of system design by the Architect and the local Building Department. Permit sprinkler drawings are to be drawn by this Division.

D. Within 30 days after approval of the above shop drawings and calculations, submit to the Architect for approval three (3) copies of a list of all materials to be used. This list shall include the manufacturer's name, model, type, number and size of equipment and the capacity of the equipment. All equipment shall be submitted at one time. Any material or equipment installed without approval of the Architect shall be subject to immediate removal, if found unsatisfactory.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Fire Protection Piping Above Grade: Allied Tubing, or approved equal, ASTM A-135 and/or A-795, schedule 10 roll grooved black steel pipe with Victaulic fittings and couplings and schedule 40 black steel threaded pipe and ANSI B16.4 200 PSI cold water, black cast iron threaded fittings, or approved equal. Piping must have the ABF coating that fights the formation of microbiologically influenced corrosion (MIC). Piping must be recognized by UL and FM as approved piping for fire sprinkler systems and must have a corrosion resistance factor of 1.0 or greater.

B. Fire Protection Pipe Below Grade and Within 5'-0" of Building: ANSI Specification A21.50 ductile iron Class 50 with Tyton joints, and ANSI Specification A21.10 cast iron Tyton Fittings. Pipe and fittings shall be cement line 1/16-inch minimum thickness and bituminous coated on exterior. Install pipe in accordance with manufacturer's directions. Pipe shall have a working pressure rating of 175 psi. Fittings shall have a working

pressure rating of 125 psi. Double wrap all piping below building with Tapecoat CT, or approved equal.

C. Automatic Sprinkler Heads:
   1. Where Piping is Run Exposed, Where Piping is Run Concealed to Serve Above Ceiling Heads, or Outdoor Heads: Pendent or upright solder type automatic water spray heads with standard plain brass finish. Star model SG, or approved equal.
   2. Where Piping is Run Concealed: Sprinkler heads shall be Star model SG or approved equal, recessed chrome plated sprinkler head complete with recessed adjustable chrome plated ceiling escutcheon.
   3. Dry Pendant Heads: Star model SG, or approved equal, length as required, complete with chrome plated ceiling escutcheon and chrome head.
   4. Sidewall Heads: Star model SG, or approved equal, extended coverage sprinkler head, complete with chrome escutcheon and chrome head.
   5. Provide extra heads of each type for replacement, a head wrench and cabinet as required by NFPA, and bolt to wall adjacent to main riser.
   6. All heads shall have temperature ratings as required for the service indicated, and shall meet the requirements of the standards of the National Fire Protection Association.

D. Fire Protection Valves: All valves must be U.L. listed and F.M. approved.
   1. Detector Check Valve Assembly: Febco, or approved equal, detector type check valve with two OS&Y gate valves, test cocks, and Potter OSYSY-B, OSYSU-A1 or OSYSU-A2 supervisory switches. Detector check assembly shall conform with the local fire marshal's requirements.
   2. Butterfly Valves: Nibco model W-002-N6, or approved equal, valve for fire service, complete with Ny-plate nickel-plated ductile iron disc, stainless steel stem, lug steel bodies, Buna-N seats, gear operator with crank handle, indicator dial plate, and suitable for 175 psi working pressure. Provide tamper switch with contacts and conduit connection as required for wiring to remote alarm system. Valve shall have lug type flanges.
   3. Check Valve: Nibco model F-908, or approved equal, U.L. approved for fire service, 200 PSI water pressure valve with iron bronze trim, bronze faced disc, and lug type flanges.
   4. Drain and Test Valves: United model 45, or approved equal, 175 psi rating, threaded ends, and angle or globe type as required.

E. Water Flow Switch: Grinnell model VSR-D, or approved equal, U.L. approved, with retard mechanism, conduit connection and contacts as required for wiring to remote alarm system.

F. Fire Department Connections: Potter-Roemer model 5722, or approved equal, 4" x (2) 2 1/2" inlets with cast brass body, double clappers, branded "Auto Sprinkler" and brass caps with chains.

G. All exterior penetrations shall be sealed watertight. Use Thunderline "Link-Seal", or approved equal, in all concrete floor, wall, or footing penetrations below grade. All other penetrations shall be flashed, caulked and sealed watertight.

H. Pressure Gauges: Weksler, or approved equal, with stainless steel movement, phosphor bronze bourdon tube, die cast aluminum case with threaded ring, bottom connection, siphon, gauge cock, and a 4 1/2" diameter dial, range 0-200 PSI. Install a pressure gauge at the building riser.

I. Sight Glass: Grinnell model F 1321, Viking or Central, unit rated for 175 psi, 1-inch size, UL listed, and threaded ends.

J. Union Orifice: Black cast iron union with corrosion-resistant standard orifice.

K. Pipe Sleeves: ADJUS-TO-CRETE, or approved equal, 22 gauge, electro-galvanized sheet metal adjustable sleeve. Pack all sleeves fire tight.

L. Pipe Supporting: Support all pipe from the building structure so that there is no apparent deflection in pipe runs. Fit piping with steel sway braces and anchors to prevent vibration and/or horizontal displacement under load when required. Do not support piping from, or brace to, ducts, other pipes, conduits, or any materials except building structure. Use 12 gauge 1-5/8" square channel supports with pipe clamps, where piping is supported close to wall, ceiling, or floor.

M. Escutcheons: Chromium plated steel floor and ceiling plates with set screw to hold securely in place.

N. Fire Rated Pipe Penetrations: 3M, or approved equal, U.L. listed assemblies. Install rated penetrations at all fire rated walls, floor, ceilings, roof, etc.

PART 3 - EXECUTION

3.01 GENERAL

A. (Note Deleted)

B. Conceal all piping in furred walls, partitions, ceilings, and pipe spaces wherever possible.

C. Any exposed piping shall be installed parallel to or at right angles with building walls and tight to walls or ceilings wherever possible. Coordinate pipe locations with Architect prior to installation.

D. Seal and caulk watertight all below grade penetrations into the building.

E. Where exposed pipes pass through walls, ceilings or floors, fit with escutcheons plates. Escutcheon plates must be securely held in position allowing enough clearance to care for expansion and shall be sufficient size to cover the opening around the pipe.

F. Sprinkler heads shall be aligned in ceilings and shall be placed within the innermost 6" square area of the ceiling tiles.

G. In general, all piping shall be run as high as possible above ceilings or floors.

H. All piping shall be supported in accordance with the requirements of NFPA 13 and the local building code. Provide sway bracing where required.

3.02 MICROBIOLOGICALLY INFLUENCED CORROSION (MIC)

A. Comply with section 9-1.5 of NFPA 13, 1999 Edition.

B. The water supply shall be tested for the existence of the microbes that cause MIC. If the microbes exist, the piping system and the water shall be treated to kill the microbes.

C. Submit a copy of the test results that show that the system is free from the microbes that cause MIC.

3.03 EXCAVATING, TRENCHING AND BACKFILLING

A. Trenches for underground piping shall have uniform grades same as for pipe so that pipe will bear on solid ground. Loose earth shall be tamped solid around sides and top of pipe and remainder thoroughly compacted to prevent settlement of the surface.

B. Provide and maintain dewatering pumps as required. Backfill shall not be placed on or around piping for 24 hours after pipe joints have been made and before lines are properly tested and approved.

C. Provide shoring and cross-bracing of sufficient strength to properly support the walls of all excavations at depth of four (4) feet or more as required to protect personnel and as required by OSHA.

D. Minimum cover for piping exterior to the building shall be 36" below finish grade or as otherwise determined by invert elevations. Verify all piping elevations, and invert elevations before starting work.

E. Install thrust blocks where required and where recommended by the piping manufacturer.

3.04 CLEANING

A. The intent of this Specification is that all equipment and materials furnished shall be completely dust free, clean and rust free and freshly painted or polished when the final acceptance inspection is made. All systems of any nature shall be thoroughly cleaned and flushed of all pipe contaminates such as cuttings, filings, lubricant, rust, scale, grease, debris, etc., and thoroughly flushed out with clear, clean water until clean in the opinion of the Inspector. Any piece of equipment or part of any system which malfunctions or is damaged due to failure or neglect to observe this paragraph shall be repaired or replaced without extra expense to Owner.

B. Mask off all sprinkler heads during painting. Remove tape at completion of painting.

3.05 IDENTIFICATION SIGNS

A. Drain valves, test connections, etc. shall be fitted with approved enameled signs indicating their purpose and use, and shall be securely affixed to their respective component.

3.06 ADJUSTING

A. Demonstrate proper operation of new flow switch and tamper switches.

3.07 TESTING

A. All sprinkler piping systems: Hydrostatically test and prove tight under 200 PSI of water and in accordance with local Fire Department requirements.

B. Tests: Shall be applied for a minimum period of 2 hours or until tests are complete in the opinion of the Inspecting authority.

C. MIC Test Reports: Submit test reports that show that no microbiologically influenced corrosion is present in the piping.

D. After all tests are successfully completed and the Record Drawings have been provided, the Contractor shall submit properly executed "Contractors Materials and Test Certificate" as required by NFPA 13. Install a hydraulic data nameplate to the base of the riser in the mechanical room.

END OF SECTION

Chain of Custody

Company:	Consulting Associates of California
Contact:	Gary Hennis
Address:	1 Casey Glen Court-Clayton, CA
Phone:	925/673-1392

Job Site:	City of Sausalito Civic Center Lunchroom
Job No:	
P.O. No:	

Asbestos	☒ PLM-standard	☐ TEM-AHERA	☐ TEM-CARB/AHERA	☐ TEM-EPA Qualitative	☐ TEM-drinking water
	☐ PLM-Carb435	☐ PCM-NIOSH 7400	☐ TEM-Yamate II	☐ TEM-EPA Quantitative	☐ TEM-well/surface water
Lead	☐ AA-paint chips	☐ AA-air cassettes	☐ AA-dust wipes	☐ AA-soil	☐ GF-AA-drinking water
☐ Other:					

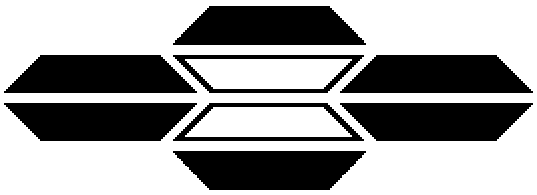
☐ phone:	☐ n/a, pre-paid	☐ 4 hrs/RUSH	☐ 48 hrs
☐ fax:	☐ fax:	☐ 8 hrs	☐ 3 days
☒ email: ghennis@comcast.net	☐ email:	☒ 24 hrs	☐ 6-10 days
☐ mail	☒ mail	☐ Other:	
☐ FTP/post online	☐ FTP/post online		

Sample No.			
CS-01	10-5	SVFC	
-02		SVFC	
-03		Plaster	
-04		"	
-05		"	
-06		Baseboard & mastic	
-07		Spray-in attic insulation	
-08		"	
-09		"	

Relinquished By:	
Name/Company:	Gary Hennis/CAC
Signature:	
Date/Time:	10-6-11

Received By:	
Name/Company:	
Signature:	
Date/Time:	10-7-11 9:35

00084043



ASBESTOS TEM LABORATORIES, INC.

EPA 3050B (modified) / EPA 7420 (modified)
Atomic Absorption Spectroscopy
Lead Paint Analysis Report

Laboratory Job # 545-00282

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

ASBESTOS TEM LABORATORIES, INC

AIHA LAP, LLC
ACCREDITED LABORATORY
ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 101754

California DPH
ELAP ID #1866

Oct/07/2011

Gary Hennis
Consulting Associates of California
1 Casey Glen Court
Clayton, CA 94517

RE: LABORATORY JOB # 545-00282
Atomic Absorption Spectroscopy analytical results for 2 paint sample(s).
Job Site: City of Sausalito, Civic Center Lunch Room
Job No.:

Enclosed please find results for the atomic absorption spectroscopy (AA) metals analysis of one or more solid samples following procedures from EPA publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods". Sample preparation procedures were performed according to EPA 3050B (modified) acid digestion of sediments, sludges, and soils. Sample analysis procedures were performed by EPA 7420 (modified) direct aspiration flame analysis.

Prior to analysis, samples are checked for damage and disruption of the chain-of-custody seal. Samples are then logged-in, each given a unique laboratory number, and a hard copy containing all pertinent information is generated. This, and all other relevant paper work are kept with each sample throughout the analytical procedures to assure proper analysis.

A portion of each sample is weighed out such that an aliquot of 1 to 2 grams is obtained for soils or solid waste, and ~0.2 grams is obtained for paint chips. The weighed sample material is then placed into a digestion vessel, transferred to a fume hood, heated at ~95 Deg. C, refluxed with nitric acid to solubilize the contained metals, and treated with hydrogen peroxide to oxidize any organic binder present in the sample material. High purity water is added to make a 50 ml volume for each sample.

AA analysis is performed on a microprocessor controlled Perkin Elmer 2380 atomic absorption spectrophotometer, operating in the flame mode. Samples are diluted as needed to allow reading of concentrations in the calibration range. QC analyses are prepared and performed along with each sample batch to ensure accurate analytical determinations. Data is compiled into a standard report format and subjected to a thorough quality assurance check before the information is released to the client. Note: Sample results are not corrected for contamination based on the field blank(s) or other analytical blank(s).

Sincerely Yours,

Laboratory Manager
ASBESTOS TEM LABORATORIES, INC.

--- Results for routine quality control samples run in parallel to the samples reported here were within acceptable limits. These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. ---

ATOMIC ABSORPTION SPECTROSCOPY
LEAD PAINT ANALYSIS REPORT
EPA 3050B (modified) Digestion / EPA 7420 (modified) Analysis Methods

Contact: Gary Hennis
Address: Consulting Associates of California
1 Casey Glen Court
Clayton, CA 94517

Samples Submitted: 2
Samples Analyzed: 2
Job Site / No. City of Sausalito, Civic Center Lunch Room

Report No.: 305152
Date Submitted: Oct-07-11
Date Reported: Oct-07-11

SAMPLE ID	METAL	SAMPLE RESULT	REPORTING LIMIT	LOCATION / DESCRIPTION		
CS-L01 Lab ID # 545-00282-001	Pb	< 83 mg/kg < 0.008 %	83 mg/kg 0.008 %	peach paint on wood trim Sampling Date	Analysis Date Oct-07-11	Analyzed Weight (g) 0.1198
CS-L02 Lab ID # 545-00282-002	Pb	280 mg/kg 0.028 %	49 mg/kg 0.005 %	pink paint on plaster walls Sampling Date	Analysis Date Oct-07-11	Analyzed Weight (g) 0.2053
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)
Lab ID #				Sampling Date	Analysis Date	Analyzed Weight (g)

mg - micrograms 1% = 10,000 ppm 1ppm = 1 mg/Kg

Lab QC Reviewer ______________ R. Mark Bailey

Analyst ______________ Jane Zhang

Chain of Custody

Company:	Consulting Associates of California
Contact:	Gary Hennis
Address:	1 Casey Glen Court-Clayton, CA
Phone:	925/673-1392

Job Site:	City of Sausalito
	Civic Center Lunchroom
Job No:	
P.O. No:	

Asbestos	☐ PLM-standard	☐ TEM-AHERA	☐ TEM-CARB/AHERA	☐ TEM-EPA Qualitative	☐ TEM-drinking water
	☐ PLM-Carb435	☐ PCM-NIOSH 7400	☐ TEM-Yamate II	☐ TEM-EPA Quantitative	☐ TEM-well/surface water
Lead	☒ AA-paint chips	☐ AA-air cassettes	☐ AA-dust wipes	☐ AA-soil	☐ GF-AA-drinking water
☐ Other:					

☐ phone:	
☐ fax:	
☒ email:	ghennis@comcast.net
☐ mail	
☐ FTP/post online	

☐ n/a, pre-paid	
☐ fax:	
☐ email:	
☒ mail	
☐ FTP/post online	

☐ 4 hrs/RUSH		☐ 48 hrs	
☐ 8 hrs		☐ 3 days	
☒ 24 hrs		☐ 6-10 days	
☐ Other:			

CS-L01	10-5	peach paint on wood trim	
CS-L02	10-5	pink paint on plaster walls	

Name/Company:	Gary Hennis / CAC
Signature:	
Date/Time:	10-6-11

Name/Company:	
Signature:	
Date/Time:	10-07-11 A09:20 IN

October 13, 2011

Mr. Jonathon Goldman, PE
Director of Public Works
City of Sausalito
420 Litho Street
Sausalito, CA 94965-1933

RE: Findings of Pre-Renovation Asbestos and Lead Paint Assessment at the Lunchroom of the City of Sausalito Public Works Center

Dear Mr. Goldman:

*Consulting Associates of California (*CAC*)* is pleased to provide this letter presenting the findings of a pre-renovation asbestos and lead-based paint assessment conducted at the lunchroom of the City of Sausalito Public Works Center located in Sausalito, California (the site). It is CAC's understanding that the information obtained through this assessment will be used during the renovation of the lunchroom.

SCOPE OF WORK

The objective of the project was to identify and quantify hazardous materials at the site that would require special handling and/or removal prior to the proposed renovation activities. CAC conducted visual inspections and/or material sampling for asbestos-containing materials (ACMs) and lead-containing materials (LCMs) that would require special handling prior to or during the proposed demolition activities. A more detailed description of the activities is presented below.

Asbestos

The asbestos survey is required by the Bay Area Air Quality Management District's (BAAQMD's) Regulation 11, Rule 2 and the Cal-OSHA *Asbestos in the Construction Industry Standard*(CCR Title 8, Section 1529) which both require an asbestos survey prior to demolition activities. All asbestos and lead assessment work was performed by a Cal-OSHA Certified Asbestos Consultant and Cal-DHS Lead Related Construction Inspector/Assessor.

CAC conducted an inspection of the accessible portions of the interior and exterior of the structure to determine whether ACMs were present. As part of the asbestos survey, a total of 9 bulk material samples were collected. CAC submitted all of the bulk material samples to an analytical laboratory for analysis for asbestos content by polarized light microscopy (PLM) analysis in accordance with EPA Method 600/R-93/116. Copies of the analytical data sheets and the chain-of-custody records are attached. The sample number, location and description are identified on the chain-of-custody records.

Lead

The inspector also conducted a visual assessment of suspect lead-containing materials. Lead sampling was limited to representative coated surfaces, which were deteriorating (chipping, flaking, etc.) and therefore may create a lead exposure hazard during the renovation activities. Coated surfaces determined to be in good repair are not a health hazard and were not sampled under this work plan.

All asbestos and lead assessment work was performed by a Cal-OSHA Certified Asbestos Consultant and Cal-DHS Lead Related Construction Inspector/Assessor.

FINDINGS

Site Description

The Site consists of an approximately 300 square foot room (lunchroom) located within a multi-story commercial building. The building has a wood frame and the walls and ceiling are plaster. The floor of the room has sheet vinyl floor covering.

Asbestos

The suspect ACMs identified and sampled and a summary of the results are also presented in the attached analytical data sheets and chain-of-custody records. The following presents a general description of the suspect ACMs identified and sampled:

- Brown sheet vinyl floor covering
- Plaster wall material
- Baseboard and mastic
- Blown-in insulation (attic-above ceiling)

As a result of the bulk sampling and laboratory analysis, the following ACM was identified:

- Approximately 300 square feet of sheet vinyl floor covering contains 30 percent Chrysotile asbestos. The material was in good condition and is friable.

Lead

Generally, all of the painted surfaces in the structures were in good repair. CAC did collect samples of the representative paints/coatings from the room. The painted surfaces that were sampled are:

- Peach paint on wood trim
- Pink paint on plaster walls

The result of the laboratory analysis revealed the paints contain 0.008 and 0.028 milligrams per kilogram (mg/kg) or 83 and 280 parts per million (ppm) lead. These lead concentration are below the Cal-OSHA trigger limit of 0.06 percent, and the DTSC TTLC concentration of 0.1 percent, but is below the DHS definition of lead-based paint (5,000 ppm or 0.5 percent).

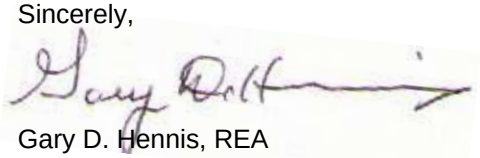
CONCLUSIONS AND RECOMMENDATIONS

Asbestos-containing sheet vinyl floor covering was identified in the lunchroom at the City of Sausalito Public Works Center. If the material would be impacted by the planned renovations, the material should be removed in accordance with applicable BAAQMD regulations such as Regulation 11, Rule 2 and Cal-OSHA regulations regarding asbestos related work, specifically Title 8, California Code of Regulations (CCR) Section 1529, the Asbestos in the Construction Industry Standard.

Lead was identified at concentrations below all regulatory thresholds in the peach trim paint and pink wall paint. The paint was in good condition and free of significant chipping and/or flaking. However, CAC recommends that the City of Sausalito informs the selected demolition contractor of the presence of low concentrations of lead paint. The selected contractor should take precautions to reduce the amount of paint debris and chips generated during the renovation activities. As long as the paint/coating remains adhered to the substrate, no special handling is necessary.

Please do not hesitate to contact me at (925) 673-1392 if you have any questions regarding this summary or attached results. Thank you for the opportunity to provide professional services to your firm.

Sincerely,



Gary D. Hennis, REA
Cal-DHS Lead Related Construction Inspector/Assessor

Attachments:

Analytical Data Sheets and Chain-of-Custody Records

ANALYTICAL DATA SHEETS
AND CHAIN-OF-CUSTODY RECORDS

Consulting Associates of California
1 Casey Glen Court - Clayton, CA 94517 - (925) 673-1392 - Fax (925) 673-1393