



The City of Burlingame

PUBLIC WORKS DEPARTMENT
(650) 558-7230

CITY HALL – 501 PRIMROSE AVE
BURLINGAME, CALIFORNIA 94010-3997

CORPORATION YARD
(650) 558-7670

October 29, 2018

ADDENDUM NO. 1R1

**TO CONTRACT DOCUMENTS FOR CENTRAL COUNTY FIRE DEPARTMENT STATION 35 IMPROVEMENTS –
CITY PROJECT NO. 84340**

Corrected pages for the Contract Documents, Specifications, and Plans, described below, are attached to this addendum. The addendum consists of these 6 pages of the addendum.

All bidders shall acknowledge receipt and acceptance of **Addendum No. 1R1** by signing in the space provided at the end of this Addendum and submitting the signed Addendum with their proposal. Failure to do so may constitute grounds for rejection of the bid in its entirety of the bid.

Very truly yours,

Kevin Okada
Senior Engineer

Contractor Signature

Date

Company Name

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. In the case of difference with previous addenda, this addendum takes precedence. It is the responsibility of the Contractor to notify all parties from whom he accepts proposals for all changes in the Contract documents covering this project. All other conditions remain unchanged. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

The Bid Set issued is revised as stated below in this Addendum #1R1.

A. NOTICE INVITING SEALED BIDS

1. Sealed proposals will be received at the office of the City Clerk, City Hall, 501 Primrose Road, Burlingame, California until 2:00pm on **Wednesday, October 31, 2018** and will, at 2:00pm on that date, be publically opened and read at City Hall in Conference Room 'B', in the City of Burlingame, San Mateo County, California.

B. NON-MANDATORY PRE-BID MEETING AND QUESTIONS

2. Contractors met with City Staff and CM in Conference Room B at City Hall. Upon review of logistics on the pre-bid agenda the group executed a site walk at 2832 Hillside Dr., project address. Attendance list is attached.
3. Confirmations given by the City during the bid walk is as follows:
 - a. The General Contractor shall paint all exposed existing and new MEP piping, conduits, j-boxes, etc. throughout.
 - b. General Contractor to provide master schedule per Contract requirements upon Award and Issuance of the NTP. The submitted schedule shall illustrate and/or depict a specific phasing to mitigate disturbance to those occupying the building. The City and GC shall agree upon the schedule prior to any work being completed.
 - c. General Contractor to coordinate with TEA Alert System; GC to install raceways and conduit as well as pull Cat6 cabling with termination. Devices and equipment by City.
 - d. General Contractor to include HAZMAT Abatement in bid; this scope is in Contract.
 - e. Basis of Award is per the Base Bid.
 - f. General Contractor shall coordinate Special Inspections with City.

C. PAINTING SCHEDULE

1. Revise Section 09 91 23 – Interior Painting, Part 3.3, E: Remove header a. for line that follows after sentence "...Safety and Security Work", and renumber sentence 2 to 1. Painting of exposed panel boards, piping, hangers, conduits, ducts that is installed as a requirement of the contract is required to be painted.

D. TEA ALERT SYSTEM COORDINATION

1. Revise Sheet E802, General Notes: Add Note 6 to general notes as follows "General Contractor to coordinate with City vendor TEA Alert System for installation of raceways and conduit as well as pull Cat6 cabling with terminations. The devices and equipment is by the City."

E. CONTRACTOR'S BID COST BREAKDOWN

1. The contractor must prepare a contract bid cost breakdown or schedule of values, and submit copies of it to the project manager and the construction administrator within three weeks of the official construction starting date for review. The breakdown must list the major items of the contract work by discipline (Mechanical, electrical, controls, fire alarm, structural, architectural) and the cost of performing each item. It must show sufficient breakdown and detail of each discipline type to evaluate work on the site. Coordinate with the Project Manual Table of Contents. It shall also show cost of material and labor to determine value of materials received on site. Contractor may suggest other formats for City's review and approval.
2. The project manager/construction inspector and the construction administrator must review and coordinate approval of the bid cost breakdown with the design professional. The construction administrator uses the approved bid cost breakdown to approve the contractor's progress payment requests during construction.

F. WARRANTIES

1. In General Conditions of the Contract, add following part 3.07 Warranties as follows:

3.07 WARRANTIES

The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials or equipment not conforming to these requirements may be considered defective. All material, equipment or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence on the date of substantial completion as declared by the Architect. The warranty shall be not less than one year from date of substantial completion.

2. Refer to Section 07 52 13 - ATACTIC-POLYPROPYLENE (APP) MODIFIED BITUMINOUS MEMBRANE ROOFING: Add Part 1.7 to the Section as follows:

1.7 WARRANTY

Provide Manufacturer's standard Guarantee with single source coverage and no monetary limitation, where the manufacturer agrees to repair or replace components in the roofing system, which cause a leak due to a failure in materials or workmanship. Duration of the warranty is Twenty (20) years from the date of substantial completion.

G. COORDINATION OF TRAFFIC SIGNAL PANEL

- A. Plan Sheet AD201: Revise keynote in entirety with the following "Protect Traffic Signal Panel in place". This revision coordinates with the Keynote 12 on Electrical Sheet E201.

G. FIRE PROTECTION SHEET ISSUANCE

- A. Sheets FP001 – Fire Protection Abbreviations & Notes – Bid Alt #5, FP002 – Fire Protection Symbols & Notes – Bid Alternate #5, FP100 – Fire Protection Site Plan – Bid Alternate #5, FP221 – Fire Protection Plan – Bid Alternate #5, and FP700 Fire Protection Details – Bid Alternate #5 is issued herewith. These drawings supplement the Specification Section 21 10 00 – Water Based Fire Suppression Systems issued included in the bid documents. Revise the Sheet Index on Sheet G001 with the number and title of the four sheets accordingly.

H. BID ALTERNATES CLARIFICATION

- A. Sheets G001 – Cover Sheet, Bid Alternates: Remove Bid Alternate item 1 and 2 from Alternate schedule, and renumber the following alternates starting with 1, 2, 3, 4, 5, and 6 to coordinate with Specification Section 01 23 00 – Alternates.
- I. **The following agreements are hereby added to the Contract/Bid Documents and will be made part the executed Contract with the Awarded Contractor:**
- Special Inspections Testing Agreement
 - Jurisdiction Enforced Waste Disposal Agreement

J. ANSWERS TO SPECIFIC QUESTIONS RAISED BY BIDDERS

Question #1

What is the engineer's estimate?

Answer #1

The engineer's estimate for the base bid is \$680,000.

Question #2

Unit price #1 described in specifications but no place on bid form?

Answer #2

We request unit price #1 to be documented as an RFI once the project is awarded.

Question #3

Drawings note potential asbestos and lead. Is a hazardous material report available?

Answer #3

See attached lead and asbestos report in this addendum.

Question #4

Specifications mention contractor staging and parking but not found on drawings?

Answer #4

The contractor staging area will be in the back parking lot and is assumed to be two parking spaces with access to the grass area behind it.

Question #5

Does City really expect Contractor to pay for water and electrical utility usage?

Answer #5

The City will pay for the water usage and electricity usage of the fire station. However if outside water or electricity for a separate meter is needed the contractor will need to pay for these (for example, a hydrant meter or new electrical drop).

Question #6

Is building occupied during construction?

Answer #6

Yes. See general notes 2 on page A001.

Question #7

If building is occupied are there specific stages of work and associated barricades?

Answer #7

We will request a staging/phasing plan from the contractor and the barrier is anticipated to be between the living quarters and apparatus bay. GC to provide master schedule per Contract requirements upon Award and Issuance of the NTP. The submitted schedule shall illustrate and/or depict a specific phasing to mitigate disturbance to those occupying the building. The City and GC shall agree upon the schedule prior to any work being completed.

Question #8

AD230 calls for roof demo - note 1 but it looks like just over bedroom area? Not over Apparatus and Living?

Answer #8

Roof demo of the entire fire station is included in key note 1. Also this intended to be a part of bid alternate 1.

Question #9

Can you clarify if the existing footing detail on sheet S200 detail 3/S200 is meant to be typical for all footings?

Answer #9

The detail only applies to the one footing as noted on Drawing 1/S200. This is the footing that is affected by the 4" x 6" post shown on Drawing 1/S201 in the interior of the building.

Question #10

Please clarify the top edge finish of the wall wainscots for the Washroom and Accessible Washroom. Has the city finalized a choice for the CT-1, CT-2, CT-3, and room transition threshold colors and finishes? If so, what are they?

Answer #10

Per Section 09 30 13, Part 3.3, Paragraph D, provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges. This would include the top edge of the wainscot. The city has not finalized color choice of the tile or thresholds as these will be selected from the manufacturer's standard offerings per Part 2.3. For pricing, bidders may assume the lowest cost group for all tile styles noted in the Part.

Question #11

Can you clarify what this means: The station will have fire alarm and sprinkler system designed for the entire station but installed only in the sleeping quarters?

Answer #11

The water meter and sprinkler riser into the building must be engineered by the fire sprinkler contractor for sprinklering all parts of the building even though it will be used to sprinkler only the sleeping quarters. Likewise, the fire alarm system is designed and sized to monitor the sprinkler system.

END OF ADDENDUM 1R1

Attachments:

- Kitchell Drawings Sheets FP001, FP002, FP100, AND FP221.
- Pre-Bid Meeting Sign-In Sheet
- RestCon Environmental Report dated September 9, 2015.
- Special Inspections Testing Agreement
- Jurisdiction Enforced Waste Disposal Agreement

FIRE PROTECTION ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	KEC	KITCHEN EQUIPMENT CONTRACTOR
AFP	ABOVE FINISHED PAVEMENT	KS	KITCHEN SINK
AV	ACID VENT		
AW	ACID WASTE ABOVE GRADE OR FLOOR	MECH	MECHANICAL
AD	AREA DRAIN	MPG	MEDIUM PRESSURE GAS
ASH	AUTOMATIC SPRINKLER HEAD	MO	MOTOR OIL
A	COMPRESSED AIR	MTD	MOUNTED
		(N)	NEW
BV	BALANCING VALVE	NTS	NOT TO SCALE
BAV	BALL VALVE		
BEL	BELOW	OR	ON ROOF
BFF	BELOW FINISHED FLOOR	OS & Y	OUTSIDE SCREW AND YOKE
BFG	BELOW FINISHED GRADE	OD	OVERFLOW DRAIN
BLDG	BUILDING	OFL	OVERFLOW LEADER ABOVE GRADE
BFV	BUTTERFLY VALVE	OH	OVERHEAD
		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CB	CATCH BASIN	OFOI	OWNER FURNISHED, OWNER INSTALLED
CLG	CEILING		
CHO	CHASSIS OIL		
CO, WCO	CLEAN OUT, WALL CLEANOUT		
CW	COLD WATER	PH	PHASE
CWH	COLD WATER HEADER	PLD	PLANTER DRAIN
CSP	COMBINATION STANDPIPE	PO	PLUGGED OUTLET
CWV	COMBINED WASTE AND VENT	PLBG	PLUMBING
CD	CONDENSATE PIPING	POC	POINT OF CONNECTION
CONN	CONNECT/CONNECTION	PS	POT SINK
CONT	CONTINUATION	PRS	PRE-RINSE SINK
		PG	PRESSURE GAUGE
DA	DENTAL AIR	PRV	PRESSURE RELIEF VALVE
DV	DENTAL VACUUM	PSW	PRESSURE SWITCH
DIA	DIAMETER	PD	PUMP DISCHARGE
DIA	DIAMETER		
DW	DISHWASHER	RWL	RAIN WATER LEADER ABOVE GRADE
DN	DOWN		OR FLOOR
DWG	DRAWING	REC	RECESSED
DF	DRINKING FOUNTAIN	REQD	REQUIRED
(D)	DROP	REV	REVISION
DSP	DRY STANDPIPE	(R)	RISER, RISE
		RD	ROOF DRAIN
		RM	ROOM
EWC	ELECTRIC WATER COOLER		
ELEC	ELECTRICAL	SPD	FIRE SPRINKLER DRAIN
EL	ELEVATION	SAWHA	SHOCK ABSORBER / WATER HAMMER ARRESTOR
EQUIP	EQUIPMENT	SOV	SHUT OFF VALVE
(E)	EXISTING	SCW	SOFT COLD WATER
FFE	FINISHED FLOOR ELEVATION	SHW	SOFT HOT WATER
FDC	FIRE DEPARTMENT CONNECTION	SW	SOFTENED WATER
FHC	FIRE HOSE CABINET	SPEC	SPECIFICATION
FHR	FIRE HOSE RACK	SS	STAINLESS STEEL / SERVICE SINK / SANITARY SEWER
FHV	FIRE HOSE VALVE		
FH	FIRE HYDRANT	STD	STANDARD
F	FIRE SERVICE	SP	STANDPIPE
FSR	FIRE SPRINKLER RISER	STR	STRAINER
FW	FIRE WATER	STRUC	STRUCTURAL
FU	FIXTURE UNIT	SSD	SUB SOIL DRAIN
FC	FLEXIBLE CONNECTOR		
FLR	FLOOR	TEMP	TEMPERATURE
FCO	FLOOR CLEANOUT	TPRV	TEMPERATURE AND PRESSURE
FD	FLOOR DRAIN		RELIEF VALVE
FS	FLOOR SINK	TW	TEMPERED WATER
FSW	FLOW SWITCH	T	THERMOMETER
FTK	FLUSH TANK	TMV	THERMOSTATIC MIXING VALVE
FV	FLUSH VALVE	(TA)	TO ABOVE
FA	FROM ABOVE	(TB)	TO BELOW
FB	FROM BELOW	TOC	TOP OF CONCRETE
/FT	PER FOOT	TP	TRAP PRIMER, TRAP
		TYP	TYPICAL
GLV	BLOVE VALVE		
GAL	GALLONS	US	UNDER SLAB
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
GPR	GAS PRESSURE REGULATOR	UL	UNDERWRITERS' LABORATORIES
GV/VB	GATE VALVE IN VALVE BOX	UF	URINAL
GCO	GRADE CLEANOUT	UR	URINAL
GW	GREASE WASTE BELOW GRADE OR FLOOR		
		VB	VALVE BOX
G	LOW PRESSURE GAS	V(R)	VENT (RISER)
		VTR	VENT THRU ROOF
		VCP	VITRIFIED CLAY PIPE
H	HALON		
HH	HALON UNDERFLOOR SPACE	WF	WASH FOUNTAIN
HS	HANK SINK	W	WASTE
HTR	HEATER	WD	WASTE OIL DRAINAGE
HT	HEIGHT	WOR	WASTE OIL RECOVER
HPG	HIGH PRESSURE GAS	WOV	WASTE OIL VENT
HB	HOSE BIBB	WC	WATER CLOSET
HW	HOT WATER	WHA	WATER HAMMER ARRESTOR
HWR	HOT WATER RETURN	WH	WATER HEATER
HR	HOOR	W	WET STAND PIPE
		W	WITH
IW	INDIRECT WASTE	W/O	WITHOUT
ICW	INDUSTRIAL COLD WATER		

PROJECT CODES & STANDARDS:

1. CALIFORNIA BUILDING CODE (CBC) 2013 EDITION.
2. CALIFORNIA FIRE CODE (CFC) 2013 EDITION.
3. REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. NFPA 13, 24 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION WITH CALIFORNIA AMENDMENTS.
5. NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.

FIRE PROTECTION NOTES:

- SCOPE OF WORK:
1. CONTRACTOR TO PROVIDE A FULLY CALCULATED DESIGN FOR THE ENTIRE BUILDING AND AREA OF COVERAGE.
2. THE SCOPE OF WORK INCLUDED IN CONSTRUCTION IS AS FOLLOWS:

A. DESIGN AND INSTALL A COMPLETE FIRE RISER. CAP FIRE RISER LINE BELOW GROUND FOR FUTURE CONNECTION TO UNDERGROUND PIPING MAIN.

B. DESIGN AND INSTALL A COMPLETE FIRE SPRINKLER PIPING AND SPRINKLER HEAD SYSTEM SERVING ZONE 1.
3. THE SCOPE OF WORK NOT INCLUDED IN CONSTRUCTION IS AS FOLLOWS. SCOPE OF WORK WILL BE FOR FUTURE WORK UNDER SEPARATE CONTRACT:

A. INSTALLING UNDERGROUND FIRE SPRINKLER PIPING AND CONNECTING TO CITY WATER MAIN.

B. INSTALLING THE DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY

C. INSTALLING THE FIRE SPRINKLER PIPING AND SPRINKLER HEAD SYSTEM SERVING ZONE 2 AND ZONE 3.
- THE POINT OF CONNECTION IS 6" ABOVE FINISHED FLOOR.
- SPRINKLER PLANS SHALL BE APPROVED PRIOR TO THE INSTALLATION OF ANY PIPE. A STAMPED SET OF APPROVED AUTOMATIC FIRE SPRINKLER DRAWINGS SHALL BE ON THE JOB SITE & USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS, SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- THIS AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NFPA 13 WITH CA AMENDMENTS.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- A MINIMUM OF 72 HOURS NOTICE SHALL BE REQUIRED FOR ANY TESTING AND/OR INSPECTION.
- ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY THE AUTHORITY HAVING JURISDICTION.
- UPON COMPLETION OF THE INSTALLATION OF THE AUTOMATIC FIRE SPRINKLER SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
- A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE AUTHORITY HAVING JURISDICTION UPON COMPLETION OF THE INSTALLATION.
- INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
- VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATERFLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY SUPERVISED BY A LISTED FIRE ALARM CONTROL UNIT. CFC 903.4.

GENERAL NOTES:

1. NEW FIRE PROTECTION EQUIPMENT AND INSTALLATION SHALL COMPLY WITH CURRENT EDITION NFPA 13 WITH CALIFORNIA AMENDMENTS, PROJECT SPECIFICATIONS AND ALL APPLICABLE STATE AND LOCAL CODES.
2. INSTALLING CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES.
3. DESIGN & INSTALLATION SUBJECT TO FINAL INSPECTION AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
5. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE APPROVED BY AHJ AND PROVIDED BY THE INSTALLING CONTRACTOR AT NO ADDITIONAL COST. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES OF FIRE PROTECTION PIPE ROUTING.
6. FIRE STOP ALL PENETRATIONS OF RATED WALLS, CEILINGS, FLOORS, ROOFS, ETC. FLASH AND COUNTER FLASH ROOF PENETRATIONS.
7. SPRINKLERS SHALL BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS.
8. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13. A CABINET WITH A STOCK OF SPARE SPRINKLERS AND SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED. LOCATION OF THE CABINET, NUMBER AND TYPE OF SPRINKLERS SHALL CONFORM TO NFPA 13 2013 EDITION, SECTION 6.2.9.3.
9. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.
10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS SHALL BE IN ACCORDANCE WITH NFPA 13.
11. NEW SPRINKLER PIPE SHALL BE SCHEDULE 10 & 40 BLACK PIPE, SEE SPECIFICATION FOR REQUIREMENTS.
12. ALL NEW THREADED FITTINGS SHALL BE MALLEABLE IRON.
13. ONLY NEW MATERIALS SHALL BE USED IN THE INSTALLATION OF THIS SYSTEM.
14. ALL FIRE SPRINKLERS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING SURFACE, SPRINKLERS SHALL BE LOCATED AT CENTER OF TILE.
15. A SIGNED COPY OF THE OWNERS CERTIFICATE SHALL BE PROVIDED, NFPA 13, 4.3.
16. ALL BRACING SHALL BE ATTACHED TO THE BUILDING'S STRUCTURAL FRAME IN ACCORDANCE WITH NFPA 13.
17. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
18. ROD STIFFENER REQUIRED FOR ALL-THREAD-ROD HANGERS OVER 6'-0" IN LENGTH.
19. NFPA 13 FIGURE 25.1: A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS & TEST CERTIFICATE FOR ABOVE GROUND PIPING" SHALL BE INCLUDED IN THE SUBMITTAL.
20. NFPA 13 SECTION 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI, OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (PROJECT INSPECTOR SHALL WITNESS AND CONFIRM COMPLIANCE).
21. NFPA 13 SECTION 9.3.6.3: THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
22. CFC 901.2.1 - REQUEST FOR FINAL APPROVAL OF INSTALLATION SHALL INCLUDE WRITTEN STATEMENT OF COMPLIANCE FROM INSTALLING CONTRACTOR.
23. CFC 901.5.1 - OCCUPANCY IS PROHIBITED UNTIL FIRE SPRINKLER SYSTEM HAS BEEN TESTED AND APPROVED.
24. CFC 901.6.2 - RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED ON THE PREMISES.
25. PROVIDE KNOX LOCKS FOR ALL FIRE DEPARTMENT CONNECTIONS.
26. PROVIDE MEASURES FOR FIRE WATCH AS NECESSARY DURING DEMOLITION, CONSTRUCTION, AND TESTING.

FIRE SPRINKLER SYSTEM NOTES

1. THE INSTALLING CONTRACTOR SHALL PROVIDE A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN, SECURE WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS. SUCH SIGNS SHALL BE PLACED AT THE ALARM VALVE, DRY PIPE VALVE, PREACTION VALVE, OR DELUGE VALVE SUPPLYING THE CORRESPONDING HYDRAULICALLY DESIGNED AREA. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION:

A. LOCATION OF THE DESIGN AREA OR AREAS.

B. DISCHARGE DENSITIES OVER THE DESIGN AREA OR AREAS.

C. REQUIRED FLOW AND RESIDUAL PRESSURE DEMAND AT THE BASE OF THE RISER

D. HOSE STREAM DEMAND INCLUDED IN ADDITIONAL TO THE SPRINKLER DEMAND (CURRENT EDITION OF NFPA 13, WITH CA AMENDMENTS, SECTION 25.5 & 25.6)
2. THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13, CURRENT EDITION, WITH CA AMENDMENTS.
3. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
5. PROVIDE FIRESTOPPING DESIGN AND DETAILS SHOWING THE REQUIRED CLEARANCES AND FLEXIBLE FIRE-STOP SYSTEM/SEALANT WHERE SPRINKLER PIPING PENETRATES RATED WALLS WHERE OPENINGS ARE REQUIRED TO BE PROTECTED (CURRENT CBC SECTION 714).
6. A CABINET WITH A STOCK OF SPARE SPRINKLER AND SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED. LOCATION OF THE CABINET, NUMBER AND TYPE OF SPRINKLERS SHALL CONFORM TO THE CURRENT EDITION OF NFPA 13, WITH CA AMENDMENTS, SECTION 6.2.9.3.

FIRE SPRINKLER SYSTEM NOTES

- A. AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DEFERRED-APPROVAL ITEMS.
- B. DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER AND FIRE ALARM SYSTEMS.
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL FROM THE OFFICE OF THE AUTHORITY HAVING JURISDICTION.
- D. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGNED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- E. DEFERRED SUBMITTAL SHALL INCLUDE COMPREHENSIVE ENGINEERING ANALYSIS BY A CALIFORNIA LICENSED PROFESSIONAL ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND THE CONTENTS OF SECTION 21 10 00 & SECTION 28 31 00 (INCLUDING RELATED AND/OR REFERENCED REQUIREMENTS IDENTIFIED THEREIN). SUBMITTAL SHALL INCLUDE COMPLETE CALCULATIONS FOR HYDRAULIC, BATTERY, VOLTAGE DROP ETC., AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM (S).
1. FIRE FLOW TEST REPORT WITNESSED/SIGNED BY THE AUTHORITY HAVING JURISDICTION (NFPA 24, FIGURE C.4.11.2).
2. GRAPHICAL REPRESENTATION OF EACH HYDRANT TESTED (NFPA 21, FIGURE C.4.11.4).



Capital Expenditure Managers
2450 Venture Oaks Way
Suite 500
Sacramento, CA. 95833
(916) 648-9700



CENTRAL COUNTY FIRE DEPARTMENT
STATION #35

2832 HILLSIDE DRIVE
BURLINGAME, CA 94010

CITY OF BURLINGAME

NOT FOR CONSTRUCTION

PROJECT STATUS:

100% CONSTRUCTION DOCUMENTS

BUILDINGS:

SHEET TITLE:

FIRE PROTECTION ABBREVIATIONS & NOTES - BID ALT #3

SCALE: 0 1/2 1

BASE IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, IT SHALL BE ADJUSTED ACCORDINGLY.

REVISIONS

No.	Description	Date

JOB NO.

6092A3

DATE

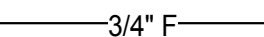

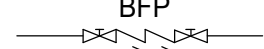











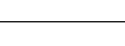
5/15/18

SHEET




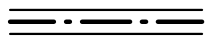
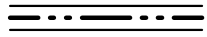

FP001

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

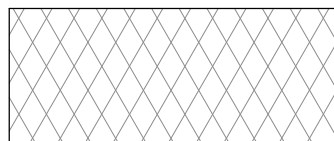


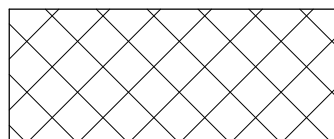


FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
NOTE: ALL EXISTING FIXTURES ARE SCREENED GRAY.	
	FIRE SUPPRESSION LINE & PIPE DIAMETER
	SPRINKLER HEAD
	BACKFLOW PREVENTER (BFP), 3" DOUBLE CHECK VALVE
	FIRE DEPARTMENT CONNECTION
	CROSS
	TRANSITION
	ELBOW
	TEE
	RISE
	DROP
	TEE DROP
	TEE RISE
	CHECK VALVE
	FLOWSWITCH
	TEST/DRAIN VALVE

FIRE RATED WALLS

	(E) ONE HOUR RATED		
	(E) TWO HOUR RATED		
	(E) FOUR HOUR RATED		
	ONE HOUR RATED		
	TWO HOUR RATED		
	FOUR HOUR RATED		
P	FIRE PARTITION	B	FIRE BARRIER
S	SMOKE BARRIER	F	FIRE WALL

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
MATCH LINE	 1 / FP2.1	VIEW NUMBER / SHEET NUMBER		PENDENT - INSTITUTIONAL		OCCUPANCY HAZARD TAG. ALL AREAS SHALL BE LIGHT HAZARD UNLESS DENOTED BY THE OH1 SYMBOL IN WHICH CASE HAZARD CLASSIFICATION WILL BE ORDINARY HAZARD GROUP 1.
NOT IN SCOPE		AREA NOT IN SCOPE.		PENDENT - STANDARD		
				UPRIGHT		END OF LINE RESTRAINT
FIRE SPRINKLER AREA OF NEW WORK		PROVIDE NEW FIRE SPRINKLER BRANCH AND SPRINKLER HEADS IN THIS AREA.		RISER		FIRE FLOW NODE. REFER TO FIRE PROTECTION CALCULATION IN ENGINEERING REPORT.
FIRE SPRINKLER AREA OF DEMOLITION		DEMOLISH EXISTING FIRE SPRINKLER BRANCH LINE AND SPRINKLER HEADS IN THIS AREA FOR NEW SCOPE OF WORK. EXISTING BRANCH LINES SERVING AREAS OUTSIDE OF AREA SHALL REMAIN TO NOT INTERRUPT FLOW.		POINT OF CONNECTION		
				POINT OF DISCONNECT		

FIRE PROTECTION TABLES

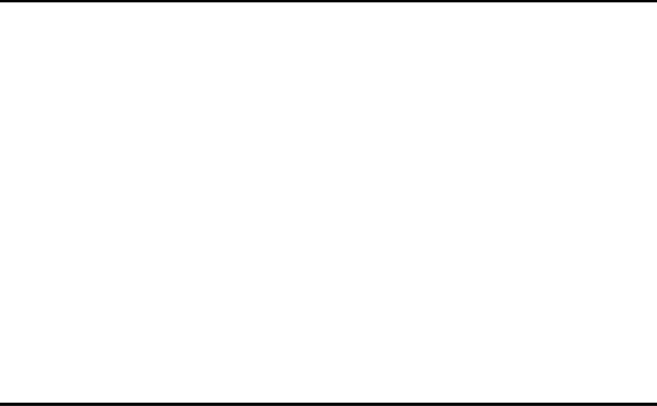
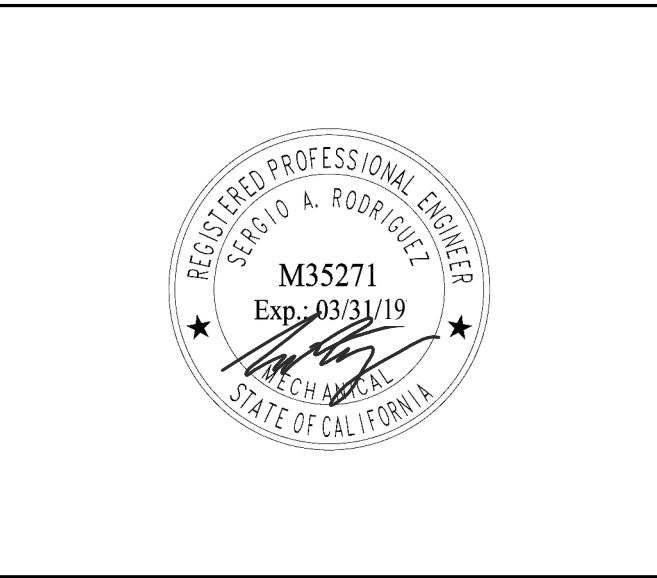
SPRINKLER LEGEND				
MANUFACTURER	DESCRIPTION	TYPE	K-FACTOR	TEMPERATURE RATING
VIKING	PENDENT SPRINKLER, QUICK RESPONSE, STANDARD COVERAGE	VK318	5.6	165°F
VIKING	UPRIGHT SPRINKLER, QUICK RESPONSE, STANDARD COVERAGE	VK300	5.6	175°F


SPRINKLER CRITERIA MATRIX				
OCCUPANCY HAZARD	OCCUPANCY TYPE	DESIGN DENSITY (GPM/SF)	DESIGN AREA (SF)	HOSE ALLOWANCE
LIGHT HAZARD	WASHROOMS,BEDROOMS , KITCHEN, DINING, LIVING, HALL	0.1	1500	100 GPM
ORDINARY HAZARD, GROUP 1	APPARATUS, ELECTRICAL, UTILITY, DETACHED STRUCTURE	0.15	1500	250 GPM

FIRE STATION #35 HYDRAULIC DESIGN INFORMATION	
AREA LOCATION	REMOTE AREA #1
SYSTEM TYPE	NEW - WET
HAZARD	ORDINARY HAZARD 1
SPRINKLER K-FACTOR	5.6, 1/2 INCH
DENSITY	0.15
AREA OF OPERATION	3,800
HOSE WATER ALLOWANCE	
INSIDE 100	OUTSIDE 250
SYSTEM DEMAND	
REQUIRED	SOURCE
PRESSURE (PSI)	40
FLOW (GPM)	656



Capital Expenditure Managers
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CITY OF BURLINGAME

CENTRAL COUNTY FIRE DEPARTMENT
STATION #35
2832 HILLSIDE DRIVE
BURLINGAME, CA 94010

NOT FOR CONSTRUCTION

PROJECT STATUS:

100% CONSTRUCTION DOCUMENTS

BUILDINGS:

SHEET TITLE:

FIRE PROTECTION SYMBOLS & NOTES - BID ALTERNATE #3

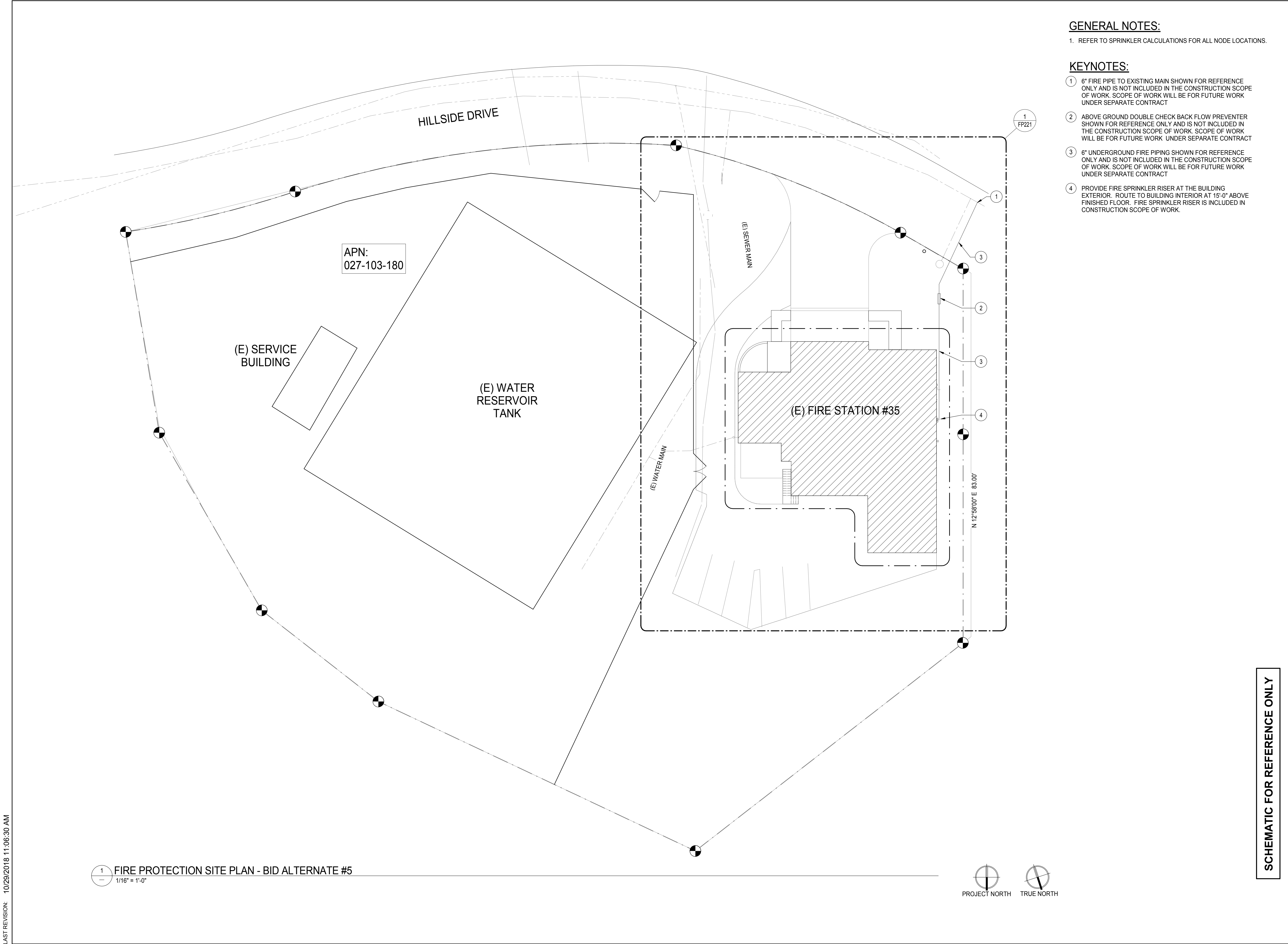
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REVISIONS

No.	Description	Date

JOB NO. 6092A3	SHEET FP002
DATE 5/15/18	

LAST REVISION: 10/29/2018 11:06:30 AM




GENERAL NOTES:

1. REFER TO SPRINKLER CALCULATIONS FOR ALL NODE LOCATIONS.


KEYNOTES:


- 6" FIRE PIPE TO EXISTING MAIN SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED IN THE CONSTRUCTION SCOPE OF WORK. SCOPE OF WORK WILL BE FOR FUTURE WORK UNDER SEPARATE CONTRACT
- ABOVE GROUND DOUBLE CHECK BACK FLOW PREVENTER SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED IN THE CONSTRUCTION SCOPE OF WORK. SCOPE OF WORK WILL BE FOR FUTURE WORK UNDER SEPARATE CONTRACT
- 6" UNDERGROUND FIRE PIPING SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED IN THE CONSTRUCTION SCOPE OF WORK. SCOPE OF WORK WILL BE FOR FUTURE WORK UNDER SEPARATE CONTRACT
- PROVIDE FIRE SPRINKLER RISER AT THE BUILDING EXTERIOR. ROUTE TO BUILDING INTERIOR AT 15'-0" ABOVE FINISHED FLOOR. FIRE SPRINKLER RISER IS INCLUDED IN CONSTRUCTION SCOPE OF WORK.

SCHEMATIC FOR REFERENCE ONLY



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CITY OF BURLINGAME

CENTRAL COUNTY FIRE DEPARTMENT
STATION #35
2832 HILLSIDE DRIVE
BURLINGAME, CA 94010

NOT FOR CONSTRUCTION

PROJECT STATUS:

100% CONSTRUCTION DOCUMENTS

BUILDINGS:

SHEET TITLE:

FIRE PROTECTION
SITE PLAN - BID
ALTERNATE #3

SCALE: 0 1/2 1
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DRAWING. IF ONE INCH ON
THIS SHEET, ADJUST SCALES
ACCORDINGLY.

REVISIONS

No.	Description	Date

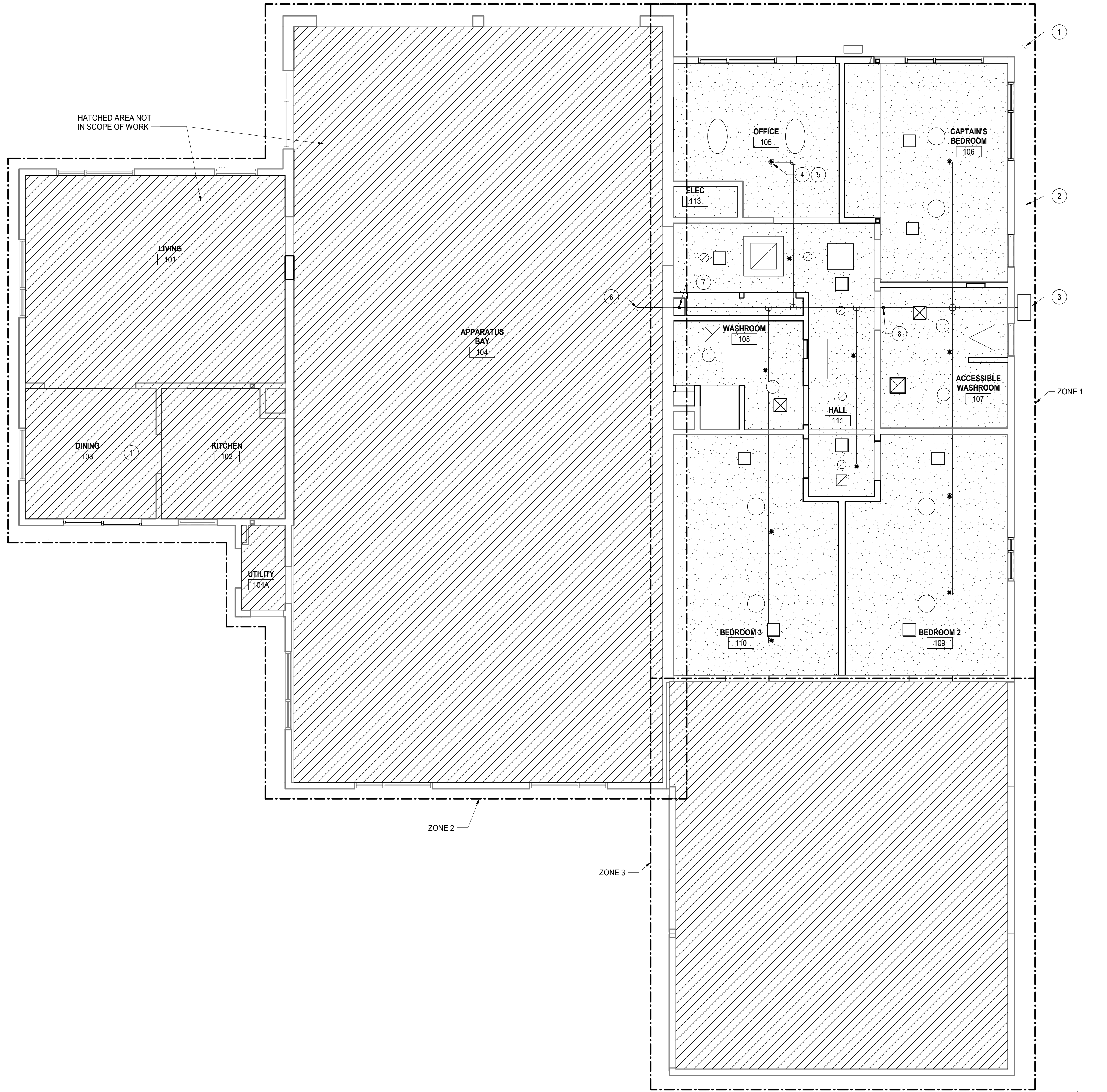
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DATE 5/15/18	

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LAST REVISION: 10/29/2018 11:06:30 AM

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FIRE PROTECTION PLAN - BID ALTERNATE #5
1/4" = 1'-0"



KEYNOTES:

- 1 REFER TO FIRE PROTECTION SITE PLAN FOR CONTINUATION.
- 2 6" UNDERGROUND FIRE SPRINKLER PIPE SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED IN THE CONSTRUCTION SCOPE OF WORK. SCOPE OF WORK WILL BE FOR FUTURE WORK UNDER SEPARATE CONTRACT
- 3 PROVIDE FIRE SPRINKLER RISER AT BUILDING EXTERIOR. ROUTE TO BUILDING INTERIOR AT 15'-0" ABOVE FINISHED FLOOR.
- 4 ALL BRANCH PIPING 1.5" DIAMETER PIPING.
- 5 PROVIDE FLEXIBLE COUPLINGS FOR SPRINKLER PIPING.
- 6 CAP 4" PIPING FOR FUTURE EXPANSION INTO APPARATUS BAY, LIVING, DINING, KITCHEN, AND UTILITY SPACES. APPARATUS BAY AND UTILITY ARE ASSUMED TO BE ORDINARY HAZARD GROUP 1. ALL OTHER SPACE REFERENCED ABOVE ARE ASSUMED TO BE LIGHT HAZARD.
- 7 PROVIDE SPRINKLER BRANCH MAIN DROP TO SERVE THE CRAWLSPACE AND DETACHED STRUCTURE AREA. CAP FOR FUTURE/EXPANSION USE.
- 8 PROVIDE RISER TO ATTIC SPRINKLERS.



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CENTRAL COUNTY FIRE DEPARTMENT
STATION #35
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BURLINGAME, CA 94010

CITY OF BURLINGAME

NOT FOR CONSTRUCTION

PROJECT STATUS:

**100% CONSTRUCTION
DOCUMENTS**

BUILDINGS:

SHEET TITLE:

**FIRE PROTECTION
PLAN - BID
ALTERNATE #3**

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REVISIONS

No.	Description	Date

JOB NO.

6092A3

DATE

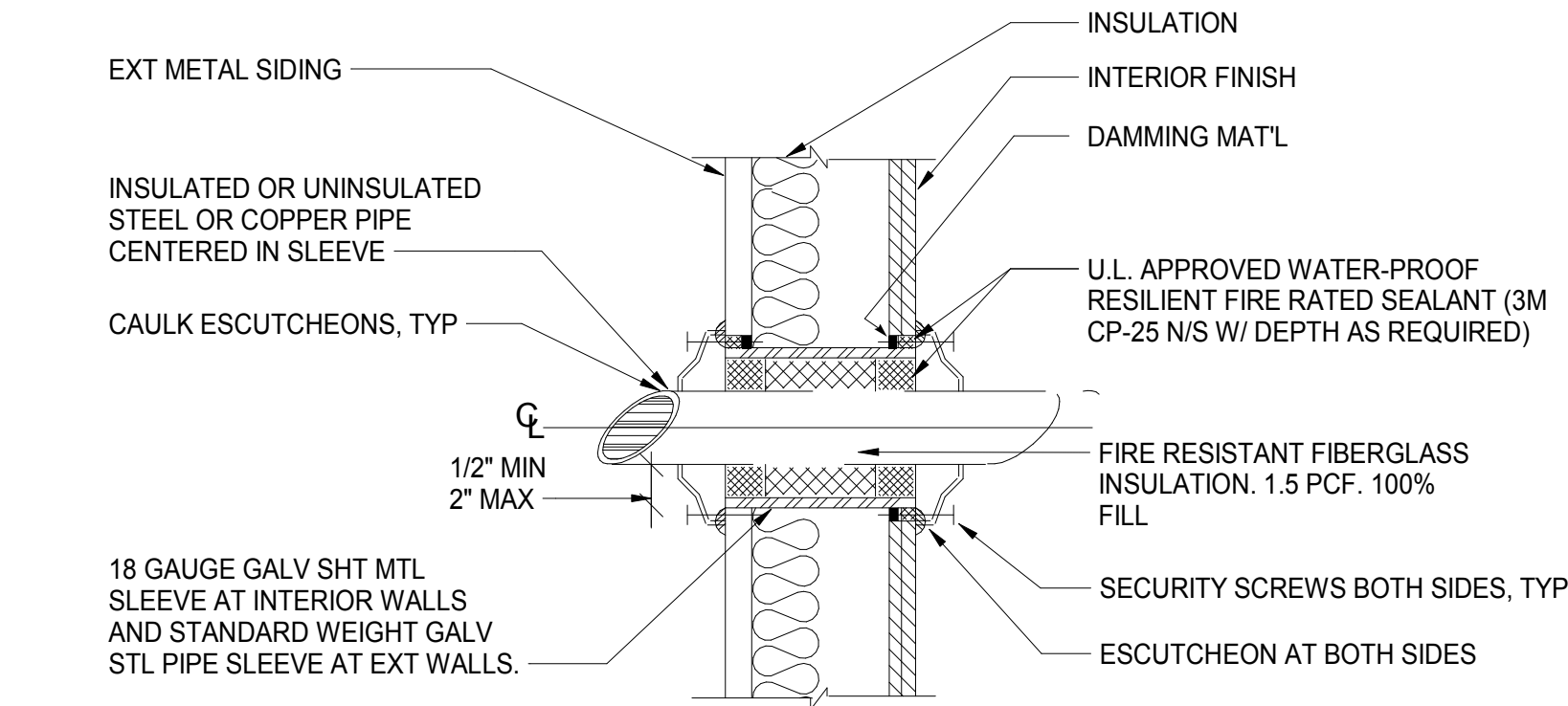
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SHEET

FP221

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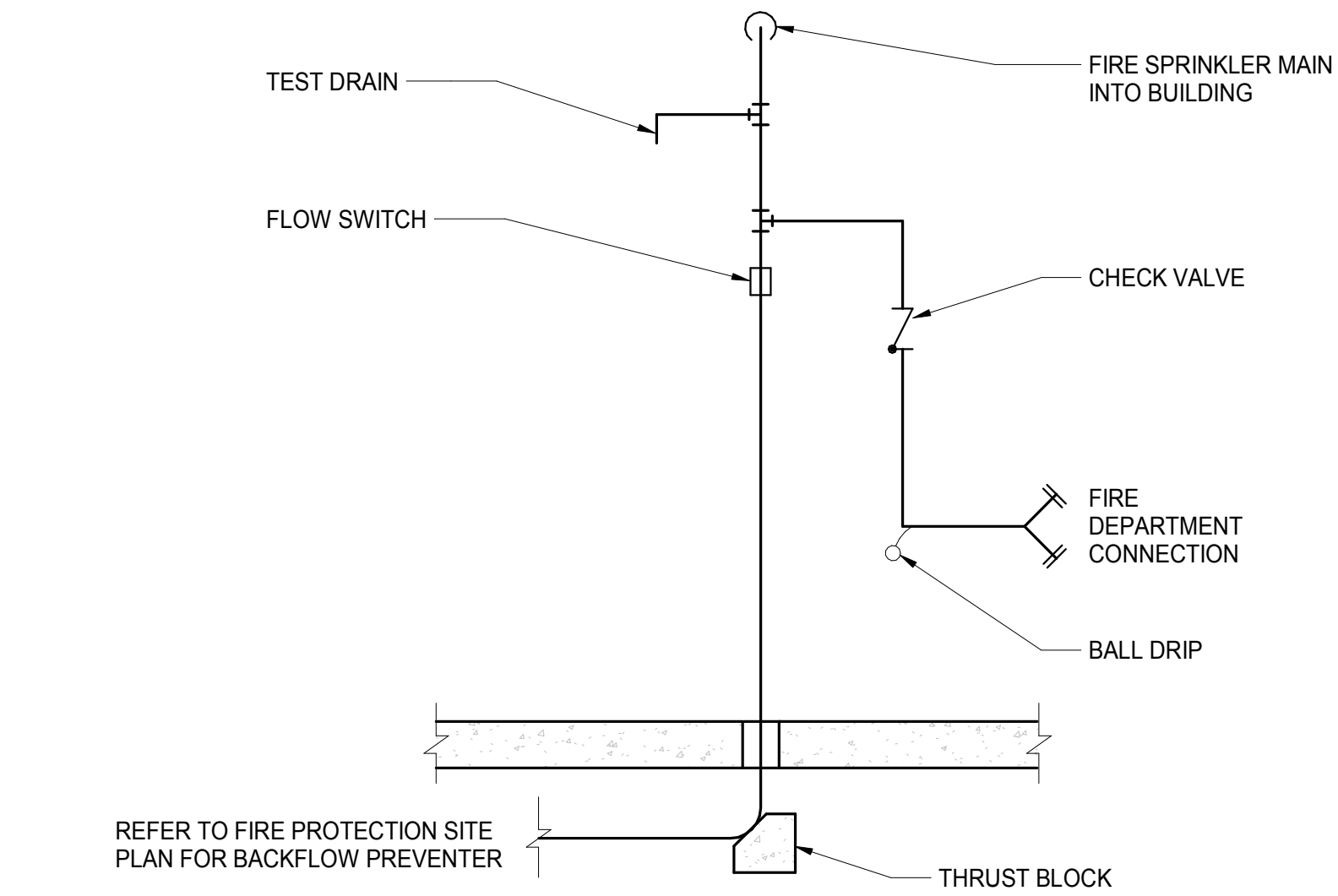
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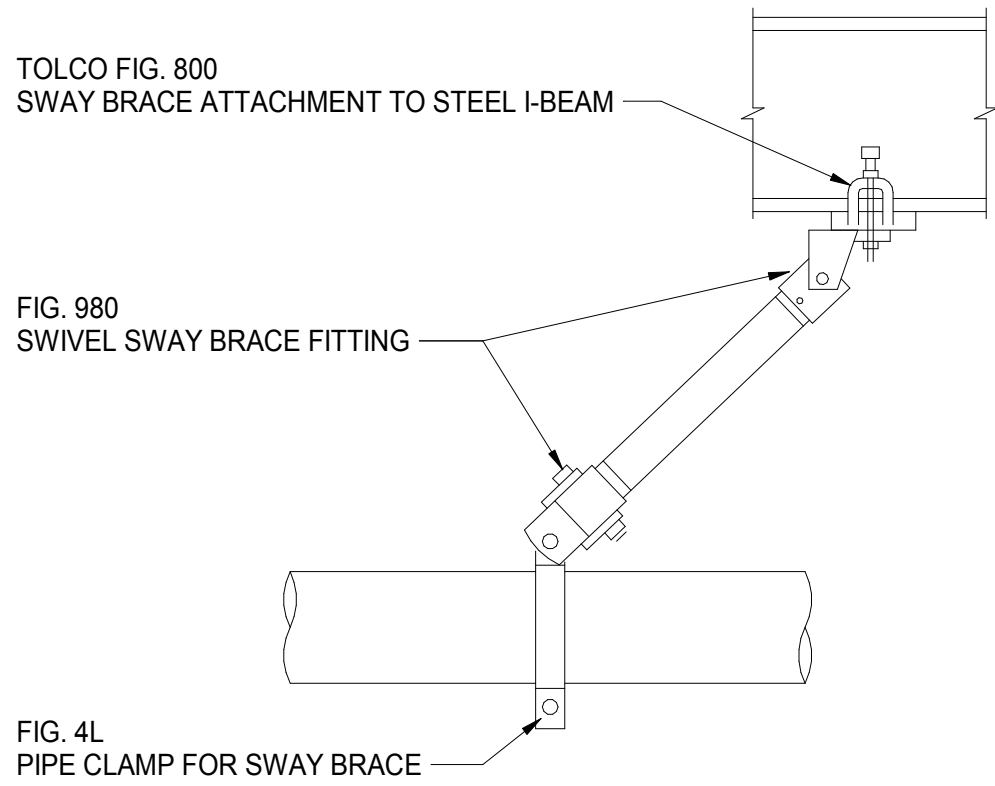
NOTE:

1. CAULK ESCUTCHEONS TO PIPING AND PROVIDE SECURITY SCREWS AT METAL WALLS (10 FT. ABOVE FINISH FLOOR, USE WATER-TIGHT CAULKING).

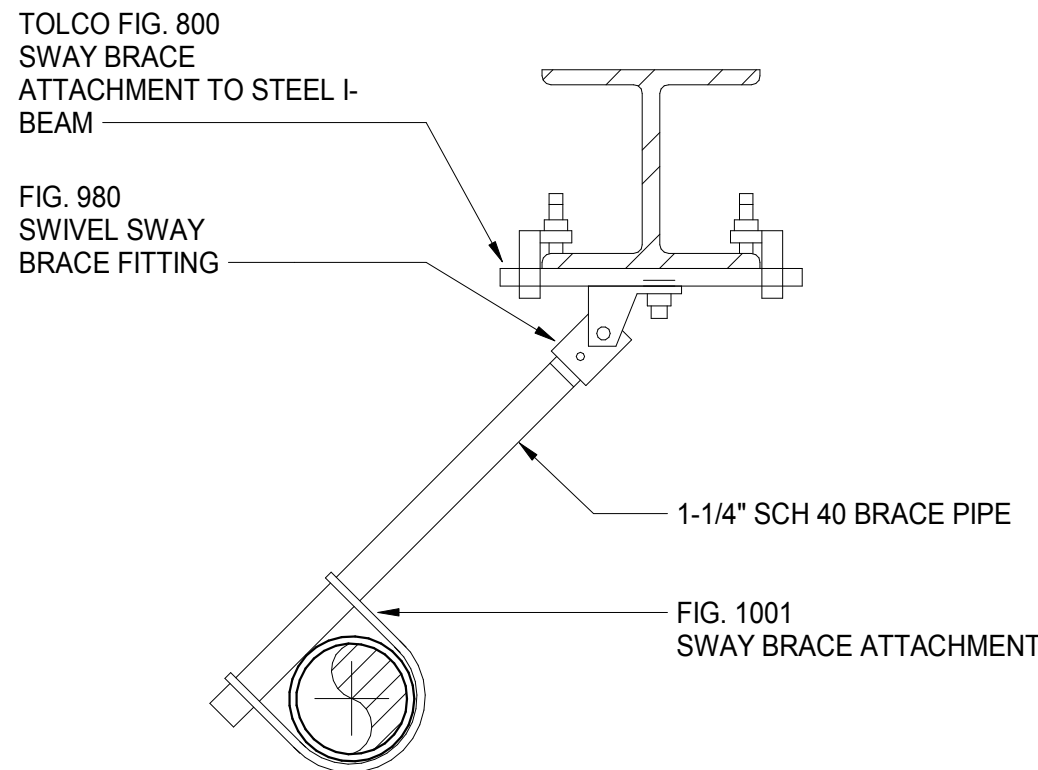
4
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NTS
FIRE SPRINKLER RISER



1
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NTS
FIRE SPRINKLER RISER



SWAY BRACE ATTACHMENT TO STEEL I-BEAM
SHOWN IN LONGITUDINAL BRACE APPLICATION

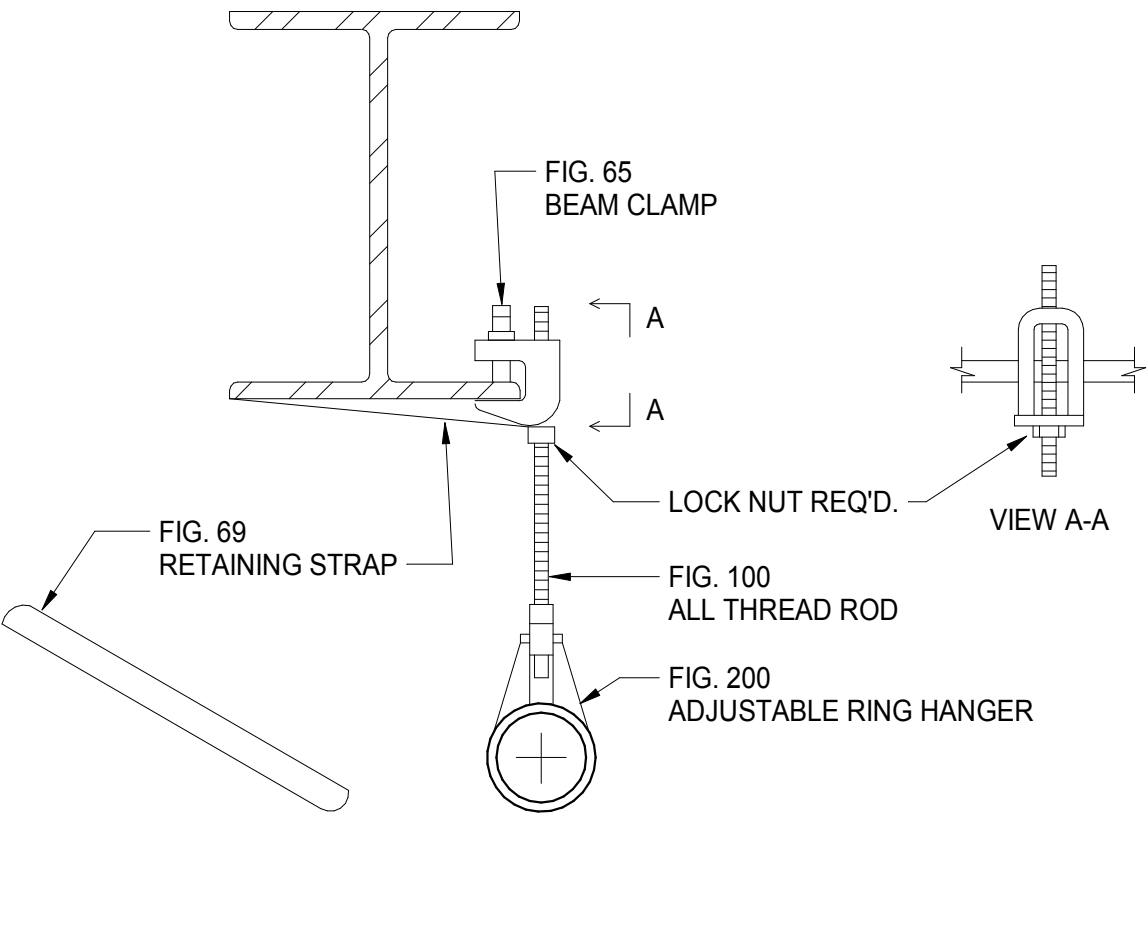


SWAY BRACE ATTACHMENT TO STEEL I-BEAM
SHOWN IN LATERAL BRACE APPLICATION

SEISMIC BRACING AND RESTRAINT NOTES:

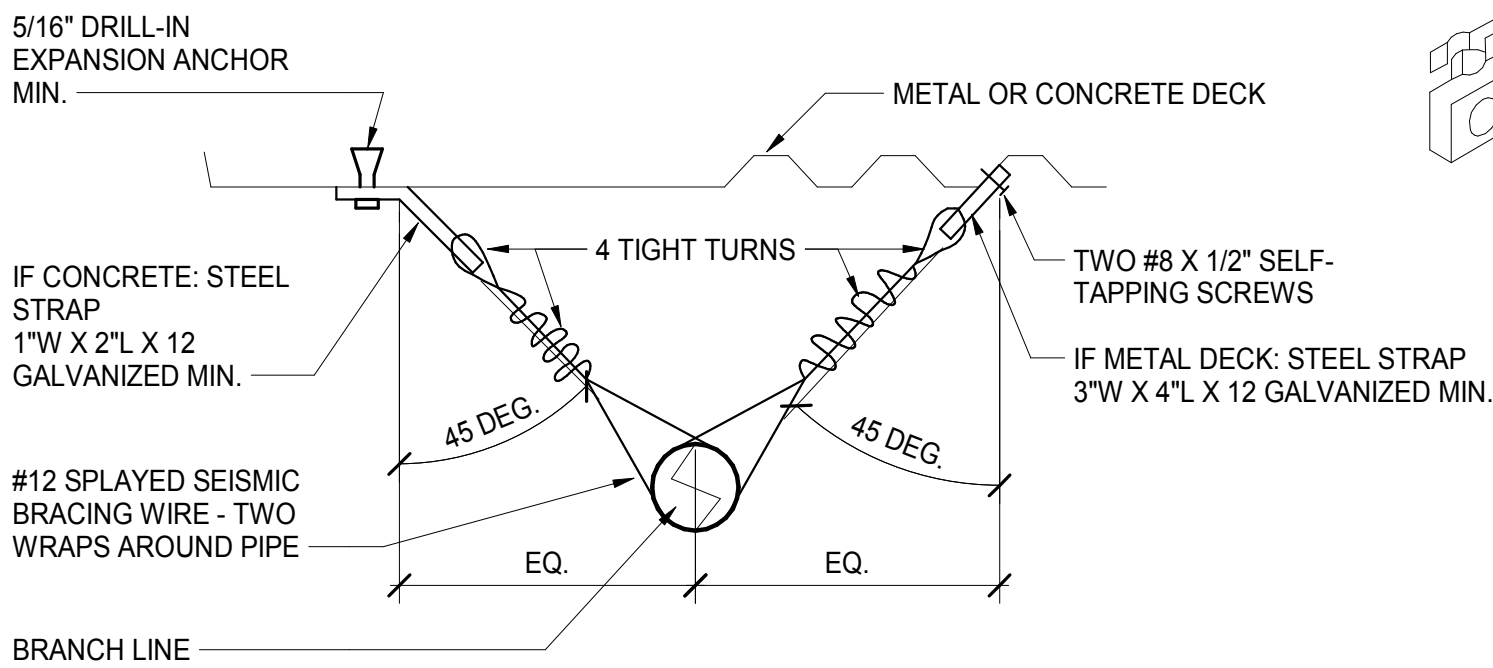
1. FOUR-WAY BRACE SHALL CONSIST OF 1 LATERAL AND 1 LONGITUDINAL BRACE PER DETAILS. A FOUR-WAY BRACE SHALL BE PROVIDED AT THE TOP OF EACH SPRINKLER RISER AND STANDPIPE PER NFPA 13 SECTION 9.3.5.5.
2. LATERAL BRACING TO ACT AS LONGITUDINAL BRACING WHEN INSTALLED WITHIN 24" OF THE CENTERLINE OF PIPING TO BE BRACED LONGITUDINALLY PER NFPA 13 SECTION 9.3.5.3.7.
3. LONGITUDINAL BRACING TO ACT AS LATERAL BRACING WHEN INSTALLED WITHIN 24" OF THE CENTERLINE OF PIPING TO BE BRACED Laterally PER NFPA 13 SECTION 9.3.5.4.2.
4. CALCULATIONS ARE BASED ON THE WORST CASE SCENARIO AND SHALL APPLY TO ALL MAIN PIPING.

2
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NTS
SEISMIC BRACING DETAILS

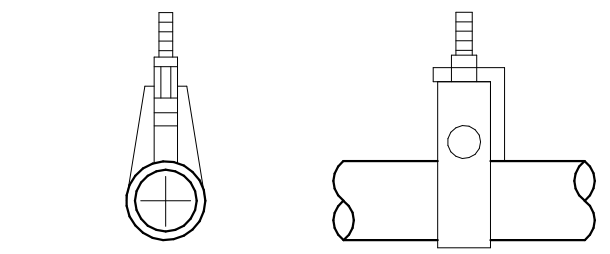


BOTTOM BEAM CLAMP, ROD, AND RING

PIPE HANGER SCHEDULE		
PIPE SIZE	MAX SPACING	ROD SIZE
1" - 1-1/4"	12'-0"	3/8"
1-1/2" - 4"	15'-0"	3/8"

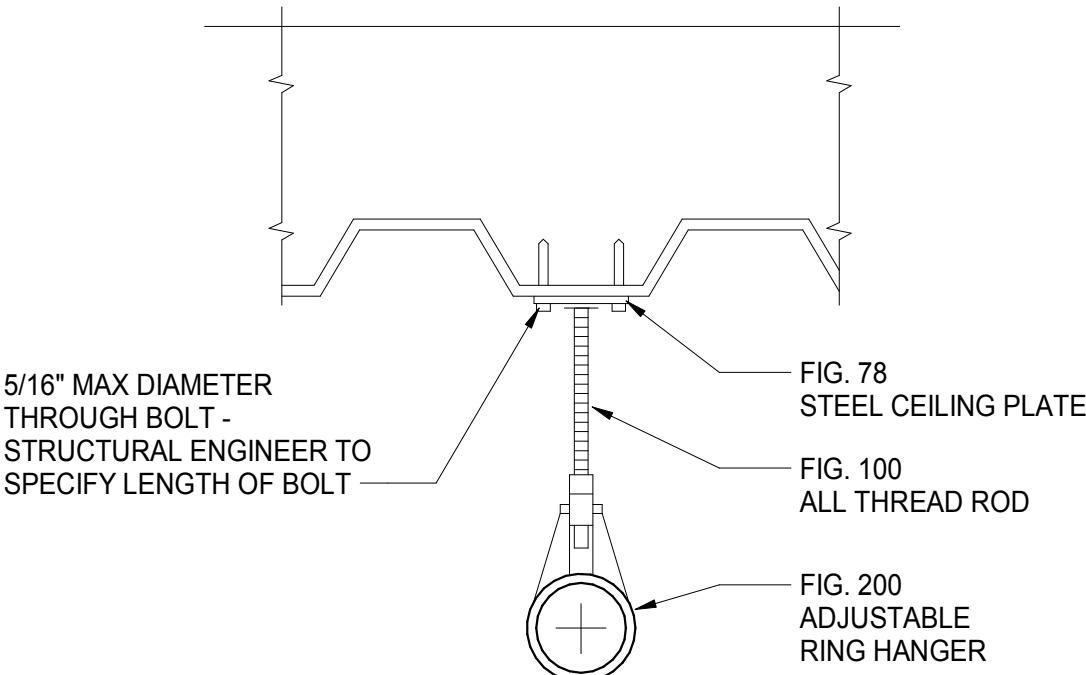


TOLCO FIG. 25 SURGE RESTRAINER
TYPE 1 - FOR 1" AND 1-1/4" PIPE AND HANGER
TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER



TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH
TOLCO BAND HANGERS FIG. 200 AND 2NFPA TO
RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT
OCCURS DURING SPRINKLER HEAD ACTIVATION OR
SEISMIC ACTIVITY.

TOLCO FIGURE 25 SURGE RESTRAINER
FOR STEEL.



CEILING PLATE, ROD AND RING
METAL DECKING INSTALLATION

3
—
NTS
HANGER DETAILS

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CENTRAL COUNTY FIRE DEPARTMENT
STATION #35

2832 HILLSIDE DRIVE
BURLINGAME, CA 94010

CITY OF BURLINGAME

NOT FOR CONSTRUCTION

PROJECT STATUS:

100% CONSTRUCTION
DOCUMENTS

BUILDINGS:

SHEET TITLE:

FIRE PROTECTION
DETAILS - BID
ALTERNATE #3

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ACCORDINGLY.

REVISIONS

No.	Description	Date

JOB NO.

6092A3

DATE

5/15/18

SHEET

FP700

Meeting Title

Fire Station 35 Improvements
City Project No. 84340
City of Burlingame, California



October 23, 2018 10:00am

Name	Company	Address	Telephone and Fax Number	Email
Cesar Arroyo Cesar	Satellite Ptg	4848 San Felipe. San Jose C.A	Tel (408) 264-1600 Fax ^{cell} (408) 373-9822	cesar@satpainting.com
Jonathan Wickman	Wickman Development And Construction	5616 Mission Street San Francisco, CA 94112	Tel 415-215-3473 Fax 415-239-4500	jonaathan@wickmandev.com
Mahan Bozorginia	CSG	550 Pilgrim Dr. Foster City, CA 94033	Tel 408-219-5838 Fax	mahanb@csengr.com
Kevin Okada	COB	501 Primrose Rd Burlingame, Ca	Tel (650) 558-7213 Fax	klokada@burlingame.org
Ryan Simpson	Rodan Builders	859 Cowan Rd Burlingame, CA	Tel (650) 508-1700 Fax	mlacues@rodanbuilders.com
CHANDU MALLADI	ARANA GROUP INC	1168 Jamestown Ave San Francisco, CA	Tel 415-656-0129 Fax 415-656-0139	bids@aragroup@gmail.com
HUAN TRUONG	D.L. Falk Inc	600 3526 Inventive Blvd, Hayward, CA	Tel (510) 887-6500 Fax (510) 887-6501	htruong@dlfalk.com
Eric Skyta	Buhler Commercial	400 Brannan St. #204 San Francisco CA 94107	Tel 415-610-8650 Fax	Steve@buhlercommercial.com
JACK SMITH	SPRING ELECTRIC	1846 510TH ST. SAN JOSE, CA 95112	Tel (650) 704-6224 Fax	sjack@springelectric.com
			Tel	
			Fax	
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			Fax	
			Tel	
			Fax	



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CSCL# 725265
A Division of Restoration Consultants, Inc.

September 9, 2015

**City of Burlingame
Johnson Woo
1361 N. Carolan Ave.
Burlingame, CA 94010**

Subject: Asbestos / Lead Survey

Site Address: Firehouse 35

The purpose of this report is to discuss the findings of the asbestos investigation RestCon Environmental conducted at the above referenced site. Mr. Mark D. Ayers, a Cal-OSHA Certified Asbestos Consultant and CDPH Certified Lead Sampling Technician, conducted this investigation on September 2, 2015 in response to a renovation project planned at the site.

The objectives of this investigation were as follows:

- To identify regulated asbestos-containing materials (RACMs), defined by Bay Area Air Quality Management District (BAAQMD). RACMs need to be removed if they are to be impacted by building renovation and before the building can be demolished.
- To identify other asbestos-containing materials that would require compliance with Cal-OSHA asbestos regulations.
- To identify potential lead containing building materials paints that would require compliance with Cal-EPA hazardous waste disposal regulations.

Executive Summary

The purpose of the survey is to clarify the impact of the proposed renovations as they relate to lead and asbestos containing materials.

SITE: The building is a single story wood frame with stucco exterior. The building has a basement and a detached garage.

A total of 15 bulk samples of building materials for asbestos determination were collected during this inspection. During this investigation, we also collected 4 samples of potential lead containing paint that were analyzed for lead content.

The asbestos samples collected were analyzed by polarized light microscopy (PLM). This method identifies the type(s) of asbestos present in the sample and its corresponding percent concentration(s). The reliable limit of detection of this method is 1% asbestos.

The lead samples were analyzed by flame absorption spectrophotometry (FAA) or total threshold limit concentration (TTL) in accordance with EPA methods.

The asbestos and lead samples were submitted to Micro Analytical Laboratories (Emeryville, CA). This laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for asbestos. This laboratory also holds certification from the American Industrial Hygiene Association (AIHA) and participates in the Environmental Lead Laboratory Accreditation Program (ELLAP).

Non-Asbestos Containing Building Materials:

The following building materials were sampled for asbestos and found not to contain asbestos:

Sample Number / Location	Sample Description	Layers Analyzed
39739090215-1	Caulking-ext wht	all
39739090215-2	Roofing-blk tar&felt	all
39739090215-3	Roofing-blk tar&felt	all
39739090215-8	Plaster&paint	all
39739090215-9	Plaster&paint	all
39739090215-10	Plaster&paint	all
39739090215-11	Plaster&paint	all
39739090215-12	Plaster&paint	all
39739090215-14	Tile,grout,thinset	all
39739090215-15	Sheetrock	all

Regulated Asbestos

The following regulated asbestos containing materials need to be removed prior to renovation or demolition:

Sample Number / Location	Sample Description	Asbestos Containing Material	Friable Y/N	Quantity
39739090215-4	Roof mastic	4% <i>chrysotile</i>	N	30s.f.
39739090215-5	Roof mastic	3% <i>chrysotile</i>	N	30s.f.
39739090215-6	Vinyl floor	<1% <i>chrysotile</i>	Y	180s.f.



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39739090215-7	Vinyl tile	15% <i>chrysotile</i>	Y	320s.f.
39739090215-13	Vinyl floor	25% <i>chrysotile</i>	Y	25s.f.

Asbestos containing samples description:

39739090215-4 Roof mastic. Sealant applied to flashings on the main building

39739090215-5 Roof mastic. Sealant applied to flashings on the garage.

39739090215-6 vinyl floor. Kitchen & Dining areas. Asbestos embedded in the wax coating on the surface of the tan flooring, not in the flooring itself.

39739090215-7 vinyl tile. Brown 9x9 tile under the carpeting in the common room of the main building.

39739090215-13 vinyl floor. Brown flooring in the closet in hallway of sleeping area.

The basement of the firehouse contains storage and mechanical equipment. There are two air handlers for the building a/c systems. The rigid duct work for these systems is insulated with a corrugated product commonly referred to as “air-o-cell”. This insulation is presumed to be asbestos containing (PACM). In addition, each duct work system has a vibration dampener installed. The two dampeners are also presumed to be asbestos containing (PACM).

Lead

Samples of the different types of building materials listed below were collected to identify potential lead containing building materials that would require compliance with Cal-OSHA’s Lead in Construction Standard (8 CCR1532.1) and Cal-EPA hazardous waste disposal regulations.

Lead in Paint – Flame AAS – Lead Based Paint (>5,000 PPM)

Lead Containing Paint – Flame AAS – Lead Containing Paint (<5,000 PPM)

4 out of 4 of the following samples collected during this investigation indicate the presence of lead content:

Sample Number/Location/Description	Lead Concentration Weight Percent	Lead Concentration Mg/kg (ppm)	Detection Limit Mg/kg (ppm)
39739090215-20,ext grey	2.5%	25000	4098
39739090215-21,ext white	4.2%	42000	3448
39739090215-22,int tan	1.3%	13000	1908
39739090215-23, int brn trim	0.041%	410	70

All of the exterior paints on these buildings should be considered lead based paints. The interior brown trim paints are considered lead containing paints. The interior tan paints are lead based paint.

When either renovating or demolishing either building, Cal-OSHA's lead in construction standard (8CCR1532.1) require a contractor to develop and implement a lead compliance plan, conduct employee exposure assessment to determine appropriate protective measures, provide employee training on the hazards of lead related work, provide adequate hand washing facilities and ensure their use. The written compliance plan would essentially acknowledge the presence of lead and would describe procedures to minimize airborne lead exposures (i.e. use dust control, clean up debris daily with a HEPA vacuum, and use good personal hygiene procedures, etc. These issues are commonplace since these Cal-OSHA rules have been in effect since 1992 and since the lead containing paints are commonly found.

The findings of this investigation warrant the following actions:

1. Notify building occupants of the presence of ACM as required under California Health & Safety Code CH 10.4 Asbestos Notification 25915-25919.7 and by Cal-OSHA regulations. This could be a summary of this report with an explanatory note that identified ACM in occupied areas is in good condition, has low fiber release potential and should not be disturbed without the proper precautions. It is also advisable to notify any contractors or other appropriate personnel who may damage ACMs that improper handling may result in exposure to asbestos, and that any work on these materials is subject to Cal-OSHA rules. These notifications should be made in writing.
2. Current Cal-OSHA regulations require that this work be conducted by a Cal-OSHA registered asbestos abatement contractor. Although there is no regulatory requirement for it, it would be advisable to develop either a work plan or specification for the removal of affected materials to obtain more competitive bids and to better assure compliance with existing regulations and minimize owner related asbestos liabilities. It would also be

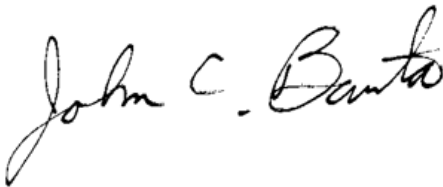
advisable to retain the services of a qualified asbestos consulting firm to oversee the asbestos removal to ensure it complies with applicable regulations and to minimize potential owner liabilities.

3. Notify occupants and potential renovation contractors of the presence of lead containing paints in the building. Disturbance of these materials requires compliance with Cal-OSHA's lead in construction regulations. The paint covered components should either be re-tested to determine soluble lead content or should be disposed of as hazardous waste separately from other building materials.

Discovery of previously inaccessible suspect materials during demolition or renovation will require that further sampling and analysis be done. Please contact me should you have any questions regarding this report. Thank you for the opportunity to be of service.



Mark D. Ayers
Certified Asbestos Consultant
DOSH 06-4038



John C. Banta, CIH
Certified Industrial Hygienist
Certified Asbestos Site Surveillance Technician
DOSH 12-4920



SPECIAL INSPECTION AND TESTING AGREEMENT
CITY OF BURLINGAME

To permit applicants of projects requiring special inspection and/or testing per Section 1704 of the 2013 California Building Code.

BEFORE A PERMIT CAN BE ISSUED: The owner, or the engineer of record acting as the owner's agent, shall complete two (2) copies of this agreement and the attached structural tests and inspections schedule including the required acknowledgments. A preconstruction conference with the parties involved may be required to review the special inspection requirements and procedures.

APPROVAL OF SPECIAL INSPECTORS: Each special inspector shall be approved by the Building Division prior to performing any duties. Each special inspector shall submit his/her qualifications to the Building Division and is subject to a personal interview for prequalification. Special inspectors shall display approved identification, as stipulated by the Building Division, when performing the function of a special inspector.

Special inspection and testing shall meet the minimum requirements of CBC Section 1704. The following conditions are also applicable:

A. Duties and Responsibilities of the Special Inspector

1. Observe work

The special inspector shall observe the work for conformance with the Building Department approved (stamped) design drawings and specifications and applicable workmanship provisions of the C.B.C. Architect/engineer-reviewed shop drawings and/or placing drawings may be used only as an aid to inspection. Special inspections are to be performed on a continuous basis, meaning that the special inspector is on site in the general area at all times observing the work requiring special inspection. Periodic inspections, if any, must have prior approval by the Building Department based on a separate written plan reviewed and approved by the Building Department and the project engineer or architect.

2. Report Nonconforming Items

The special inspector shall bring nonconforming items to the immediate attention of the contractor and note all such items in the daily report. If any item is not resolved in a timely manner or is about to be incorporated in the work, the special inspector shall immediately notify the Building Department by telephone or in person, notify the engineer or architect, and post a discrepancy notice.

3. Furnish Daily Reports

On request, each special inspector shall complete and sign both the special inspection record and the daily report form for each day's inspections to remain at the jobsite with the contractor for review by the Building Division's inspector.

4. Furnish Weekly Reports

The special inspector or inspection agency shall furnish weekly reports of tests and inspections directly to the Building Division, project engineer or architect, and others as designated.

These reports must include the following:

- a. Description of daily inspections and tests made with applicable locations;
- b. Listing of all nonconforming items;
- c. Reports on how nonconforming items were resolved or unresolved, as applicable; and
- d. Itemized changes authorized by the architect, engineer and Building Division if not included in nonconformance items.

5. Furnish Final Report

The special inspector or inspection agency shall submit a final signed report to the Building Division stating that all items requiring special inspection and testing were fulfilled and reported and, to the best of his/her knowledge, in conformance with the approved design drawings, specifications, approved change orders and the applicable workmanship provisions of the C.B.C. Items not in conformance, unresolved items or any discrepancies in inspection coverage (i.e., missed inspections, periodic inspections when continuous was required, etc.) shall be specifically itemized in this report.

B. Contractor Responsibilities

1. Notify the Special Inspector

The contractor is responsible for notifying the special inspector or agency regarding individual inspections for items listed on the attached schedule and as noted on the Building Division approved plan. Adequate notice shall be provided so that the special inspector has time to become familiar with the project.

2. Provide Access to Approved Plans

The contractor is responsible for providing the special inspector access to approved plans at the jobsite.

3. Retain Special Inspection Records

The contractor is also responsible for retaining at the jobsite all special inspection records submitted by the special inspector, and providing these records for review by the Building Division's inspector upon request.

C. Building Division Responsibilities

1. Approve Special Inspection

The Building Division shall approve all special inspectors and special inspection requirements.

2. Monitor Special Inspection

Work requiring special inspection and the performance of special inspectors shall be monitored by the Building Division's inspector. His/her approval must be obtained prior to placement of concrete or other similar activities in addition to that of the special inspector.

3. Issue Certificate of Occupancy

The Building Division may issue a Certificate of Occupancy after all special inspection reports and the final report have been submitted and accepted.

ACKNOWLEDGEMENTS

I have read and agree to comply with the terms and conditions of this agreement

Owner's name: _____

Owner's signature _____

Date: _____

Contractor's name: _____

Contractor's Signature _____

Date: _____

Special Inspector or Inspection Agency's name: _____

Special Inspector's signature: _____

Date: _____

Project Engineer/Architect' name: _____

Project Engineer/Architect's signature: _____

Date: _____

ACCEPTED FOR THE BUILDING DIVISION

Print Name: _____

Accepted and signed by: _____

Date: _____

CITY OF BURLINGAME
CONSTRUCTION AND DEMOLITION RECYCLING REQUIREMENTS

THE ORDINANCE

The California Integrated Waste Management Act of 1989 requires all California cities and counties to divert half of their waste from landfill. In order to meet this goal, Burlingame has adopted Ordinance No. 1704. This ordinance requires that 60% by weight of all waste generated from demolition and new construction be reused and/or recycled. Further, a minimum 25% of structural material (excluding concrete, asphalt and dirt) must be recycled.

WASTE REDUCTION FORM

Prior to permitting, the applicant shall complete a "Recycling and Waste Reduction Form." A deposit, based on waste generation for full demolition projects, or based on value for new construction and alteration projects, is calculated and is payable with the other fees when the permit is issued. If the project includes a complete demolition and new construction of an entire structure, then a separate Form and deposit will be required for each one.

Within sixty (60) days of completion of the project the contractor shall document all reuse, recycling, and disposal through receipts, weight tags, or other records of measurement. If it is determined that the recycling goal was met, the full deposit will be returned. If the Ordinance is not met, only a proportionate amount of the deposit will be returned. Refunds are only released after the project has passed a final inspection and after all signatures and signoffs are complete.

DECONSTRUCTION AND SALVAGE

Where a structure is to be partially or wholly demolished, deconstruction and salvaging of materials for reuse shall be performed prior to demolition. Demolition may not begin for 5 (five) working days after the permit is issued to facilitate deconstruction, salvage and reuse. Basic salvaging of easily removed, valuable appliances and fixtures almost always happens before a demolition. However, deconstruction companies go much farther, removing lumber, flooring, brick and many other materials for reuse before the house is demolished. These companies may either work with your demolition contractor or provide full deconstruction and demolition services. If the organization is a non-profit, the homeowner may be able to write-off the fair market value of the salvaged items. Please consult the attached list of local service providers.

SOURCE SEPARATION

Separating into clean loads those materials that cannot be salvaged will facilitate their recycling. For example, the on-site separation of scrap wood during new construction should be undertaken where feasible. Be sure to label your containers and educate your subcontractors to ensure clean, source-separated loads. General contractors should consider inserting recycling language into their contracts. Facilities generally accept source-separated materials at a lower fee than mixed debris.

MIXED DEBRIS

Most projects will generate some amount of mixed debris (e.g., scrap wood, plastic, insulation, and brick mixed together). It is important to take these materials to a facility that can process them for recycling. Please see the attached literature for a complete list of facilities that can recycle mixed debris. Additionally, if you use a debris box, you should ensure that your debris box service provider hauls your mixed debris to an appropriate facility.

DOCUMENTATION

It is the contractor's responsibility to provide documentation demonstrating compliance with the Ordinance. For deconstruction and salvaging, have your service provider write an inventory of the types and quantities of materials salvaged. For the disposal of source separated or mixed debris, contractors should provide official weight tickets with facility letterhead showing the date, source (project address), amount and type of materials disposed. A completed Diversion Summary Sheet should accompany this documentation (see attached).

QUESTIONS

Please contact our Recycling Specialist, Joe McCluskey, at (650) 558-7273.

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A complete copy of this Ordinance can be found on the Building Division webpage at www.burlingame.org.

Changing the Waste Reduction Plan without prior approval may result in forfeiture of your deposit.

Weight tickets and other recycling documentation from all facilities to which any debris was hauled is required prior to disposition of your recycling deposit. Complete documentation must be submitted within sixty (60) days of project completion.

Please fill out the attached form “City of Burlingame – Diversion Summary Sheet”, and submit all documentation to:

City of Burlingame
Attn: Joe McCluskey, Recycling Specialist
501 Primrose Road
Burlingame, CA 94010-3997

If you have any questions please contact Joe McCluskey on Monday or Wednesday from 8 a.m. to 4 p.m.

Office: 650-558-7273
Fax: 650-696-7208

City of Burlingame
CONSTRUCTION AND DEMOLITION
RECYCLING AND WASTE REDUCTION FORM

BEFORE
PERMIT

This recycling form must be submitted and approved before a permit will be issued. The recycling deposit is collected with the building permit fees. A minimum 60% diversion rate is required. You are required to submit tags, weight tickets, and salvage letters to document compliance within sixty (60) days of passing the final inspection. Changes to the Waste Reduction Plan without prior approval may result in forfeiture of your deposit. This Ordinance can be found on the Building Division page of our website at www.burlingame.org.

Contact: Joe McCluskey at 650-558-7273 Office Hours: Monday and Wednesday 8 a.m. to 4 p.m.

Project Type: ☐ Demolition of Entire Structure ☐ New Construction ☐ Alteration (Additions / Remodels)
 Project Site Address: _____ Permit Number: _____
 Contact: _____ Phone: _____
☐ Contractor ☐ Owner ☐ Architect / Designer ☐ Cell ☐ Office ☐ Home ☐ Email: _____

Please provide a brief description of your project: _____

- A. Please list the **salvageable** (reusable in its existing state) **items** AND quantities to be removed (e.g., 2 pedestal sinks, 100 board feet of redwood siding, and 3 solid core doors) and indicate the **salvage company** that will remove and/or receive the reusable items prior to demolition. Feel free to attach a separate sheet. If "None", please explain.

- B. Please list the **debris materials** that will be **kept clean and separate for recycling** (e.g., scrap wood, concrete). If you will have **mixed debris loads only** please indicate what materials will be in those loads.

Clean and Separate Debris: _____

Mixed Debris: _____

- C. Please list the debris box company that will be used, if any: _____

- D. Please list all facilities and the waste materials and quantities to be hauled to that facility:

Material Types (e.g. mixed debris, clean wood scraps, concrete, plant debris, sheet rock, salvaged items, etc.)		Volume (cu yd) (e.g. 10 loads in 30 yard debris boxes = 300 cu yd)		Facility Name (specific recycling facility, landfill, transfer station, salvager, etc.)	Hauling D=Debris Box S=Self-Haul T=Trucking Co.
Demolition	Construction	To Be Recycled	To Be Disposed		
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

DEPOSIT CALCULATION SHEET

Use the table below to calculate deposits for three different types of projects: Alterations, Full Structure Demolitions and Construction of New Structures. Where the demolition of a structure and the construction of a new structure will take place, separate Waste Reduction Forms and deposits must be submitted.

Demolition of Entire Structure:

Structural Demolition:	_____	sq. ft.	X 40 lb./sq. ft.	=	_____	lbs.
Asphalt:	_____	sq. ft.	X 50 lb./sq. ft.	=	_____	lbs.
Spread Footing (typ):	_____	linear ft.	X 150 lb./lin. ft.	=	_____	lbs.
Concrete Slab:	_____	sq. ft.	X 50 lb./sq. ft.	=	_____	lbs.
Brick and Masonry:	_____	sq. ft.	X 50 lb./sq. ft.	=	_____	lbs.
Total Lbs. =					_____	lbs.
Total Pounds X \$.025/lb = Total Deposit =						\$ _____

New Construction of Entire Structure:

Valuation:	\$ _____	X 1%	=	\$ _____ (\$7,500 max.)
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Alteration of an Existing Structure:

Valuation:	\$ _____	X 1.5%	=	\$ _____
Single Family Residence: (\$3,000 max.)				
All Others: (\$7,500 max.)				

Deposit to be refunded to (name and address): _____ _____ _____ _____ _____ Applicant Signature Date	Special Instructions: _____ _____ _____ _____ _____ Recycling Specialist Approval Date
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Fax to Joe McCluskey, Recycling Specialist at 650-696-7208 or call 650-558-7273.

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CITY OF BURLINGAME
CONSTRUCTION AND DEMOLITION
WASTE REDUCTION PLAN
AGREEMENT

1. Applicant will not perform any demolition, construction, or alteration at the address noted below without having an approved Waste Reduction Plan.
2. Applicant will not modify an approved Waste Reduction Plan without pre-approval by the Recycling Specialist. Applicant acknowledges that a change to the Waste Reduction Plan may impact his/her ability to meet the recycling requirements specified in the Recycling Ordinance.
3. Applicant will ensure that all materials are hauled to the facility or facilities indicated on the approved Waste Reduction Plan. This may include overseeing the activity of contracted hauling companies, demolition contactors or debris box companies to ensure that those companies haul to the facilities on the approved Waste Reduction Plan.
4. The required diversion rate of 60% cannot include Alternative Daily Cover, often referred to as ADC (materials other than soil used to cover refuse on a landfill). Applicant or his designee will check with facilities prior to hauling materials to ensure that they are not used as ADC.
5. Additional reductions in disposal of Burlingame waste at landfills is a key City goal. Since construction industry practices have always encouraged diversion of source separated inerts, reviews of waste management plans and reports will focus on diversion of materials from the mixed waste stream and limits have been set on the counting of inert materials towards recycling requirements.
6. Applicant acknowledges and accepts that review and acceptance of all weight tags, salvage receipts and all other recycling documentation is required within 60 days of final inspection. Applicant should ensure that receipts (such as weight tickets provided at scale houses) are properly coded to indicate whether material is recycled or disposed and the type of material recycled. For salvaged items, receipts should indicate specific items and quantities salvaged and what companies and/or individuals received the materials.
7. Applicant understands that recycling rates and recycling processes vary from facility to facility and that the Recycling Specialist will be available to assist in preparing a Waste Management Plan that ensures compliance with Burlingame's recycling requirements if needed.
8. Applicant is responsible for ensuring that everyone involved in this project (contractors, subcontractors, haulers, dumpster companies, and their employees, etc.) understands and complies with the terms of this Waste Reduction Plan.
9. Applicant acknowledges and accepts that if the recycling requirements noted in the City's C&D Ordinance and in #1-8 of this agreement are not met, the recycling deposit or a portion thereof will not be returned.

By signing this agreement I am indicating that I have read, understand, and agree to the recycling requirements listed above.

Applicant Signature

Date

Applicant Name (Please Print)

Project Address

___ Owner ___ Contractor

___ Other _____

Permit Number

**CITY OF BURLINGAME
DIVERSION SUMMARY SHEET**

**BEFORE
FINAL
INSPECTION**

Complete this form and attach all weight tickets and other documentation for recycling and disposal before final inspection in order to demonstrate recycling compliance.

Project Address _____ Permit # _____ Date _____

Prepared by (Print) _____ Phone _____

List all recycling facilities, transfer stations and landfills that received materials

FACILITY REFERENCE	Name of Facilities that Received Your Disposed Materials:
A	
B	
C	
D	
E	
F	

Summarize disposal below. Attach weight tickets organized by material category.

Materials Disposed	Quantity Generated (Tons when available)		Facility Used (A, B, C, etc.)	Tons (Yards) Recycled	Percent (%) Recycled
	Tons	Yards			
Mixed Materials					
Mixed Debris					
Mixed Debris					
Separated Materials					
Asphalt					
Brick					
Concrete					
Dirt/Clean Fill					
Lumber/Wood					
Roofing Material					
Scrap Metals					
Trees/Brush/Plants/etc.					
Other Materials (List)					
<i>Total</i>					

☐ Yes ☐ No: **A Salvage Inventory Sheet summarizing reuse is attached.**

Submit with documentation to Joe McCluskey, Recycling Specialist (650) 558-7273

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CITY OF BURLINGAME RECYCLING RESOURCES

DECONSTRUCTION AND SALVAGE COMPANIES *

Salvaging materials for reuse in their existing state is the highest and best form of recycling. The following organizations engage in salvage efforts as operators of deconstruction (as opposed to demolition) companies, salvage yards or both.

SALVAGED REUSABLE BUILDING MATERIALS	
Whole House Building Supply 1955 Pulgas Road, East Palo Alto www.driftwoodsalvage.com (650) 856-0634	Performs deconstruction and conducts house salvage sales. Also picks up salvaged materials on a case-by-case basis and receives drop-off donations. Call first for information on accepted materials. Offers charitable deduction receipt for donated materials.
The Reuse People www.thereusepeople.org (510) 522-2722	Performs deconstruction and conducts house salvage sales. Also picks up salvaged materials on a case-by-case basis and receives drop-off donations. Call first for information on accepted materials. Offers charitable deduction receipt for donated materials.
This and That 1701 Rumrill Blvd., San Pablo (510) 232-1273	Performs deconstruction of easily extractable materials. Also picks up salvaged materials on a case-by-case basis and receives drop-offs. Call first for information on accepted materials.
Building Resources 701 Amador St., San Francisco www.buildingresources.org (415) 285-7814	Picks up larger loads of salvaged materials on a case-by-case basis and receives drop-off donations. Call first for information on accepted materials. Offers charitable deduction receipt for donated materials.
The Reusable Lumber Company 800 La Honda Road, Woodside www.reusablelumber.com (650) 529-9122	Performs deconstruction with a focus on salvaging lumber.
C&K Salvage and Allen Demolition 718 Douglas Ave. (Edes Ave.), Oakland (510) 569-2070	Performs deconstruction. Also picks up larger loads of salvaged materials on a case-by-case basis and receives drop-offs. Primarily interested in reusable lumber. Call first for information on accepted materials.
Ohmega Salvage 2400 San Pablo Ave., Berkeley www.ohmegasalvage.com (510) 204-0767	Performs limited deconstruction with a focus on higher end and older interior architectural elements and fixtures. Purchases picked up and dropped-off salvaged materials on a case-by-case basis. Call first for information on accepted materials.
Urban Ore 900 Murray St., Berkeley (510) 841-7283	Picks up extracted items through its Outside Trader department. Purchases/receives dropped-off salvaged items on a case-by-case basis. Call first for information on accepted materials.
Caldwell's 195 Bayshore Blvd., San Francisco (415) 550-6777	Purchases/receives dropped-off salvaged items on a case-by-case basis. Call first for information on accepted materials.
Condon & Sons 117 East 25th Ave., San Mateo (650) 349-3212	Receives typically locally undesirable materials such as single-pane aluminum windows and sliding glass doors for overseas shipment to countries in need of inexpensive building materials. Call first for information on accepted materials.
Recycled Glassworks 238 Bonview St., San Francisco (415) 641-5610	Reuses 1/4" or thicker, non-tempered plate glass (such as that from older aluminum sliding glass doors) in decorative glass products. Pieces must be 10" square or larger. Will pick-up or receive drop-offs. Call for more information.
S.C.R.A.P. 801 Toland St., San Francisco www.scrap-sf.org (415) 647-1746	Accepts donations of materials such as clean wood, tile, and carpet scraps that can be re-used as art supplies by schools and other needy art and educational groups. Call for pick-up information and a complete list of accepted materials.
Berkeley Architectural Salvage 1167 65th St., Berkeley (510) 655-2270	Receives dropped-off pre-1940 salvaged items on a limited, case-by-case basis. Call first for information on accepted materials.
Craigslist www.craigslist.org	A web site that offers the ability to post (and search for) items for sale to a local community of prospective buyers. Has an extensive FREE list.
Freecycle www.freecycle.org	An email list for posting items to be given away for free. It provides the ability to subscribe to local postings. You must join the local group.
CalMAX www.ciwm.ca.gov/calmax/BayMax/default.asp	A web site that offers the ability to post (and search for) building materials for sale to a local community of prospective buyers.

SOURCE SEPARATED MATERIAL RECYCLERS *

The following are facilities that accept source separated materials. Benefits of separating materials for recycling typically include:

- lower cost (tipping fee) of recycling
- higher recycling rate for your demolition or construction project
- greater number of recycling facilities
- closer proximity of recycling facilities

APPLIANCES	
Ecumenical Hunger Program 2411 Pulgas Ave., East Palo Alto (650) 323-7781	Accepts donations of working appliances that are less than 10 years old. Call for more information and to arrange for pick-up or drop-off.
Human Services Agency Daly City (650) 301-8444	Accepts donations of working appliances and distributes to individuals in its social service program. Call for more information and to arrange for pick up or drop-off.
Project 90 15 Ninth Ave., San Mateo (650) 579-7881	Accepts donations of working appliances. Call for more information and to arrange for pick-up or drop-off.
Rebuilding Together 2201 Bay Road, Redwood City (650) 366-6597	Accepts donations of washers and dryers less 5 years old. Also accepts most dishwashers, refrigerators, ovens and ranges (non-built-in) including hoods. Will pick up or accept drop-offs after on-site verification of reusability.
St. Vincent de Paul Society Locations in Daly City, South San Francisco, San Mateo, and Redwood City (650) 871-6844	Accepts frost-free refrigerators only; must be plugged in for 24 hours prior to pick up. Call for more information and to arrange for pick-up or drop-off.
The Salvation Army www.satruck.com (800) 958-7825	Accepts most working appliances. Built-in appliances and those requiring repairs are not accepted. Call for more information and to arrange for pick-up or drop-off.
Uhuru Furniture and Collectables 3742 Grand Ave., Oakland 510-763-3342	Accepts most working appliance less than 8 years old. Built-in appliances and those requiring repairs are not accepted. Call for more information and to arrange for pick-up or drop-off.
JACO Environmental 1-800-741-0172	Will pick-up appliances (TV's, refrigerators, computers, water heaters, trash compactors, air conditioners) for a small charge. Appliances are scrapped, typically for their metal. Call for more information.

ASPHALT ROOFING SHINGLES	
Zanker Road Landfill 675 Los Esteros Road, San Jose (408) 263-2384	Obtain a "Composite Asphalt Roofing" material code or equivalent on your receipt to receive full recycling credit for your separated load.

CARDBOARD	
Paper Rush 2372 Jerrold, San Francisco (415) 282-2344	Will pay by the by ton for clean, recyclable cardboard.
Sierra Pacific Recycling 2666 Bay Road, Redwood City (650) 364-3333	Will pay by the pound for clean, recyclable cardboard.
San Carlos Recyclery (Allied Waste Services/BFI) 333 Shoreway Road, San Carlos (650) 592-2411	Accepts separated cardboard at no charge.
Blue Line Transfer Station 500 East Jamie Court, South San Francisco (650) 589-5511	Accepts separated cardboard.

DRYWALL (clean)	
Zanker Road Landfill 675 Los Esteros Road, San Jose (408) 263-2384	Obtain a "Sheetrock" material code on your receipt to receive full recycling credit for your separated load.

Greenwaste Recovery 625 Charles Street, San Jose (408) 283-4819	Obtain a "Drywall" or "Sheetrock" material code on your receipt to receive full recycling credit for your separated load.
PABCO Gypsum 37851 Cherry Street, Newark (510) 792-9555	Will accept clean <u>PABCO</u> scrap wallboard at no charge if contractor has an account with PABCO or a PABCO supplier. Obtain a receipt at security gate with date, tonnage, and signature of attendant.

GREENWASTE	
San Carlos Transfer Station (Allied Waste Services/BFI) 225 Shoreway Road, San Carlos (650) 592-2411	Obtain a "Greenwaste" material code on your receipt to receive full recycling credit for your separated load.
Zanker Road Landfill 675 Los Esteros Road, San Jose (408) 263-2384	Obtain a "Greenwaste" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Newby Island Landfill 1601 Dixon Landing Road, Milpitas (408) 262-1401	Obtain a "Greenwaste" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Greenwaste Recovery 625 Charles Street, San Jose (408) 283-4819	Obtain a "Greenwaste" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Guadalupe Landfill 15999 Guadalupe Mines Road, San Jose (408) 268-1670	Obtain a "Greenwaste" material code or equivalent on your receipt to receive full recycling credit for your separated load.
San Bruno Garbage Company 101 Tanforan Avenue, San Bruno (650) 583-8536	Accepts materials from the public on Saturdays only. A weight ticket must be requested. Obtain a "Greenwaste" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Woodfirst (541) 892-0323 (cell) (541) 850-0456 (office)	Mills trees for lumber. Seeks to provide low cost solutions for returning milled lumber to the community.
P.A.L. / East Bay Conservation Corps 1021 Third St., Oakland www.recycletrees.org (510) 376-9994	Mills trees for lumber. Will partner with tree companies to pick-up or receive large diameter logs for milling at its Oakland facility. Call for more information.
Davey Tree / Richard Hill 131 Industrial Way, Brisbane (800) 559-7600	Mills rough lumber out of felled trees on a limited, case-by-case basis. Call for more information.

INERTS: CONCRETE, ASPHALT, DIRT, ROCK and BRICKS	
Brisbane Recycling 5 Beatty Road, Brisbane (415) 468-8822	Accepts separated concrete and asphalt.
Ryan Engineering 5 Beatty Road, Brisbane (650) 877-8088	Accepts separated dirt.
Specialty Crushing Lot Sea Wall 352 / Pier 94, San Francisco (415) 648-7239	Accepts mixed or separated concrete, concrete with rebar and asphalt.
Specialty Crushing 2201 Wake Ave., Oakland (510) 633-3061 or (510) 986-9064	Accepts mixed or separated concrete, concrete with rebar and asphalt.
Harbor Sand and Gravel 775 Seaport Blvd., Redwood City (650) 367-7124	Accepts mixed or separated concrete and asphalt.
SRDC 199 Seaport Blvd., Redwood City (650) 367-7324	Accepts mixed or separated asphalt, bricks, concrete, dirt, porcelain and rock.
Granite Rock 195 Seaport Blvd., Redwood City (650) 482-3840	Accepts mixed or separated concrete and asphalt.

Raisch Company 7010 Automall Parkway, Fremont (408) 227-9222	Accepts mixed or separated asphalt, concrete, concrete with steel, bricks and porcelain.
San Carlos Transfer Station (Allied Waste Services/BFI) 225 Shoreway Road, San Carlos (650) 592-2411	Accepts separated asphalt, concrete, dirt, bricks and porcelain.
Zanker Road Landfill 675 Los Esteros Road, San Jose (408) 263-2384	Accepts mixed or separated asphalt, concrete, dirt, bricks and porcelain.
Newby Island Landfill 1601 Dixon Landing Road, Milpitas (408) 262-1401	Accepts mixed or separated asphalt, concrete, dirt and rock.
Greenwaste Recovery 625 Charles Street, San Jose (408) 283-4819	Accepts mixed or separated asphalt, concrete, dirt, rock and porcelain.
Guadalupe Landfill 15999 Guadalupe Mines Road, San Jose (408) 268-1670	Accepts separated asphalt, concrete, dirt, bricks, porcelain and rock.
DirtMarket www.dirtmarket.com	A web site for posting listings of excess inert materials.

METAL	
Circosta Metals 1801 Evans Ave., San Francisco (415) 282-8568	Purchases ferrous and non-ferrous metals. Offers free or discounted debris box drop-off and pick-up for larger quantities.
Sims Metal 699 Seaport Blvd., Redwood City (650) 369-4161	Accepts only ferrous metals at Redwood City facility. Will purchase metal at certain quantities. Call for more information.
Bay Area Metals 3201 Third St., San Francisco (415) 826-3432	Purchases non-ferrous metals (copper, brass, aluminum, stainless steel, insulated and clean copper wire). Accepts small quantities of iron, but does not purchase.
Sierra Pacific Recycling (formerly Enterprise) 2666 Bay Road, Redwood City (650) 364-3333	Purchases aluminum, brass, bronze, copper, and stainless steel.
American Metals & Iron 11665 Berryessa Road, San Jose (408) 452-0777	Accepts ferrous and non-ferrous metals.
Aaron Metals 750 105th Ave., Oakland 510-569-6767	Accepts non-ferrous metals. Call for specific information regarding accepted materials.
San Francisco Scrap Metal 99 Mississippi St., San Francisco (415) 863-3508	Accepts non-ferrous metals. Call for specific information regarding accepted materials.

WOOD (untreated / unpainted)	
San Carlos Transfer Station (Allied Waste Services/BFI) 225 Shoreway Road, San Carlos (650) 592-2411	Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Zanker Road Landfill 675 Los Esteros Road, San Jose (408) 263-2384	Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Newby Island Landfill 1601 Dixon Landing Road, Milpitas (408) 262-1401	Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.
Greenwaste Recovery 625 Charles Street, San Jose (408) 283-4819	Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.

Guadalupe Landfill 15999 Guadalupe Mines Road, San Jose (408) 268-1670	Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.
San Bruno Garbage Company 101 Tanforan Avenue, San Bruno (650) 583-8536	Accepts materials from the public on Saturdays only. A weight ticket must be requested. Obtain a "Wood" material code or equivalent on your receipt to receive full recycling credit for your separated load.

MIXED DEBRIS RECYCLING FACILITIES *

Most projects will generate some amount of mixed debris (e.g., scrap wood, plastic, insulation and brick mixed together). It is important to take these materials to a facility that is set up to process them for recycling.

MIXED CONSTRUCTION & DEMOLITION (C&D) DEBRIS	
Zanker Road Landfill 705 Los Esteros Road, San Jose (408) 263-2385	Accepts and sorts mixed construction and demolition debris. Obtain material code "Mixed Debris," "Debris Box C&D," or "Demolition" on your receipt.
San Carlos Transfer Station (Allied Waste Services/BFI) 225 Shoreway Road, San Carlos (650) 592-2411	Accepts mixed construction and demolition debris and transfers to Zanker Road Landfill for sorting. Obtain material code "C&D Sort Recy" on your receipt.
Newby Island Landfill 1601 Dixon Landing Road, Milpitas (408) 262-1401	Accepts and sorts mixed construction and demolition debris. Obtain material code "CST-2" on your receipt.
San Bruno Garbage Company 101 Tanforan Avenue, San Bruno (650) 583-8536	Accepts materials from the public on Saturdays only. A receipt (weight ticket) must be requested. Obtain a mixed construction and demolition debris recycling code on your receipt.
Greenwaste Recovery 625 Charles Street, San Jose (408) 283-4819	Accepts and sorts mixed construction and demolition debris. Obtain a mixed construction and demolition debris recycling code on your receipt.
Davis Street Transfer Station 2615 Davis Street, San Leandro (510) 638-2303	Accepts and sorts mixed construction and demolition debris. Ensure that your debris is offloaded in the construction and demolition debris sorting area and that you obtain a mixed construction and demolition debris recycling code on your receipt.
Guadalupe Landfill 15999 Guadalupe Mines Road, San Jose (408) 268-1666	Accepts and sorts mixed construction and demolition debris. Obtain a mixed construction and demolition debris recycling code on your receipt.

DEBRIS BOX COMPANIES *

The following is a list of debris box companies, some of which provide discounts for clean, separated loads of materials (e.g., clean scrap wood). If you will be generating mixed debris loads (e.g., wood, plastic, plaster, and metal mixed together), call the company to confirm the facility where you plan to recycle your debris. Some companies will haul materials to a mixed debris recycling facility by request only.

DEBRIS BOX COMPANY	PHONE NUMBER
Redwood Debris Box Service	(650) 872-2310
Forced Dump	(650) 875-3867
Peninsula Debris Box Service	(800) 799-1737
Sonrise Consolidated	(925) 371-2050
GreenWaste Recovery	(408) 283-4804
Allied Waste Debris Box Service (Formerly BFI)	(650) 591-2025
San Bruno Garbage Company	(650) 583-8536
Advanced Waste Systems	(650) 594-1113
American Debris Box Service, Inc.	(866) 332-7471
Norcal Waste Systems	(650) 558-9575
J. D. Services	(650) 458-6356

* This information is not necessarily comprehensive and is subject to change. The inclusion or inadvertent exclusion of a company in no way constitutes a recommendation. Contact facilities for current information regarding recycling practices and accepted materials.