

GENERAL NOTES

1. PIPING FLOOR PLAN IS DIAGRAMMATIC. ALL ABOVE GRADE PIPING SHOWN NEAR A PLUMBING CHASE IS TO BE LOCATED WITHIN THE PLUMBING CHASE, UNLESS OTHERWISE NOTED. OFFSET PIPING AROUND BEAMS, COLUMNS, WALLS, ETC., AS REQUIRED.
2. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.
3. FIELD VERIFY LOCATIONS OF MECHANICAL SYSTEM UNIT OUTSIDE AIR INTAKES. VENT PIPING TERMINATIONS IN ALL CASES ARE TO BE A MINIMUM OF TEN (10) FEET FROM AVG UNIT OUTSIDE AIR INTAKES AND ARE TO BE OFFSET AS REQUIRED. ALL VENT PIPING SUPPORTS, ETC., NECESSARY TO MEET THIS REQUIREMENT ARE TO BE INCLUDED.
4. ALL HORIZONTAL STORM DRAIN PIPING SHALL MAINTAIN A MINIMUM 2% SLOPE TO POINT OF DISPOSAL.
5. ALL CORINGS AND PENETRATIONS OF ROOFS, WALLS, FOOTINGS, AND/OR FLOORS FOR PIPING ARE TO BE AS SMALL AS POSSIBLE. OVERSIZING OF OPENINGS IS TO BE AVOIDED.
6. WALL PENETRATIONS ARE TO BE COORDINATED WITH ALL OTHER TRADES AND THE DRAWINGS. WALL PENETRATIONS ARE TO BE KEPT AS HIGH AS POSSIBLE AND ARE TO BE MADE IN AREAS WHERE PIPING WILL BE CONCEALED.
7. IF PENETRATIONS IN EXPOSED LOCATIONS ARE UNAVOIDABLE, INSTALL ESCUTCHEON RINGS AT THESE LOCATIONS.
8. COORDINATE WITH ALL TRADES TO AVOID CONFLICTS.

SITE VISIT PRIOR TO BID SUBMISSION

1. VISIT THE SITE OF THE WORK. COMPARE THE EXISTING CONDITIONS WITH THE DRAWINGS AND SPECIFICATIONS AS TO THE CONDITIONS TO WHICH WORK IS TO BE PERFORMED. ASCERTAIN AND CHECK ALL CONDITIONS AND ELEVATIONS AND TAKE ALL MEASUREMENTS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE FOR ANY ADDITIONAL EXPENSES OR CLAIMS DUE TO THE FAILURE OR NEGLIGENCE UNDER THIS SECTION TO MAKE SUCH EXAMINATION, INCLUDING EXAMINATION OF RESTRICTED WORKING CONDITIONS OR SUCH OTHER DIFFICULTIES VISUALLY OBSERVED DURING THE SITE VISIT.
2. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.

EXISTING UTILITY CONNECTION NOTES

1. PORTIONS OF THE PLUMBING WORK INCLUDE CONNECTING INTO THE EXISTING BUILDING UTILITY PIPING INCLUDING, BUT NOT LIMITED TO, COLD WATER, WASTE AND VENT PIPING.
2. PRIOR TO ANY SHUTDOWN OF THE BUILDING SYSTEMS NOTIFY DISTRICT A MINIMUM OF TWO (2) WEEKS IN ADVANCE TO COORDINATE REQUIRED SYSTEM DOWN TIME AND APPROPRIATE DATE(S). CONTRACTOR IS RESPONSIBLE FOR BRINGING SYSTEMS BACK ON LINE.
3. AFTER ALL NEW WORK IS COMPLETE, THE CAMPUS SYSTEMS ARE TO BE PURGED OF ALL AIR, FLUSHED OF ALL DEBRIS.

EXISTING CONDITION NOTES

1. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. CONTRACTOR SHALL COMPARE THE PLUMBING DRAWINGS WITH ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THE DRAWINGS OF OTHER TRADES BEFORE COMMENCING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES REQUIRING CLARIFICATION OR REVISION. DO NOT SCALE DRAWINGS.
2. ALL EXISTING UTILITIES SHOWN ARE BASED ON FIELD SITE VISITS AND ON THE AVAILABLE ORIGINAL PLUMBING DRAWINGS. ACTUAL LOCATIONS OF UTILITIES MAY VARY FROM THOSE SHOWN ON THESE DRAWINGS.
3. ALL EXISTING CONDITIONS HAVE BEEN SHOWN AS ACCURATELY AS POSSIBLE. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED. CONTRACTOR IS TO INCLUDE IN HIS BID, ADJUSTMENTS TO THE WORK AS REQUIRED TO ACCOMMODATE THE ACTUAL FIELD CONDITIONS.

PIPING BRACING GUIDELINES

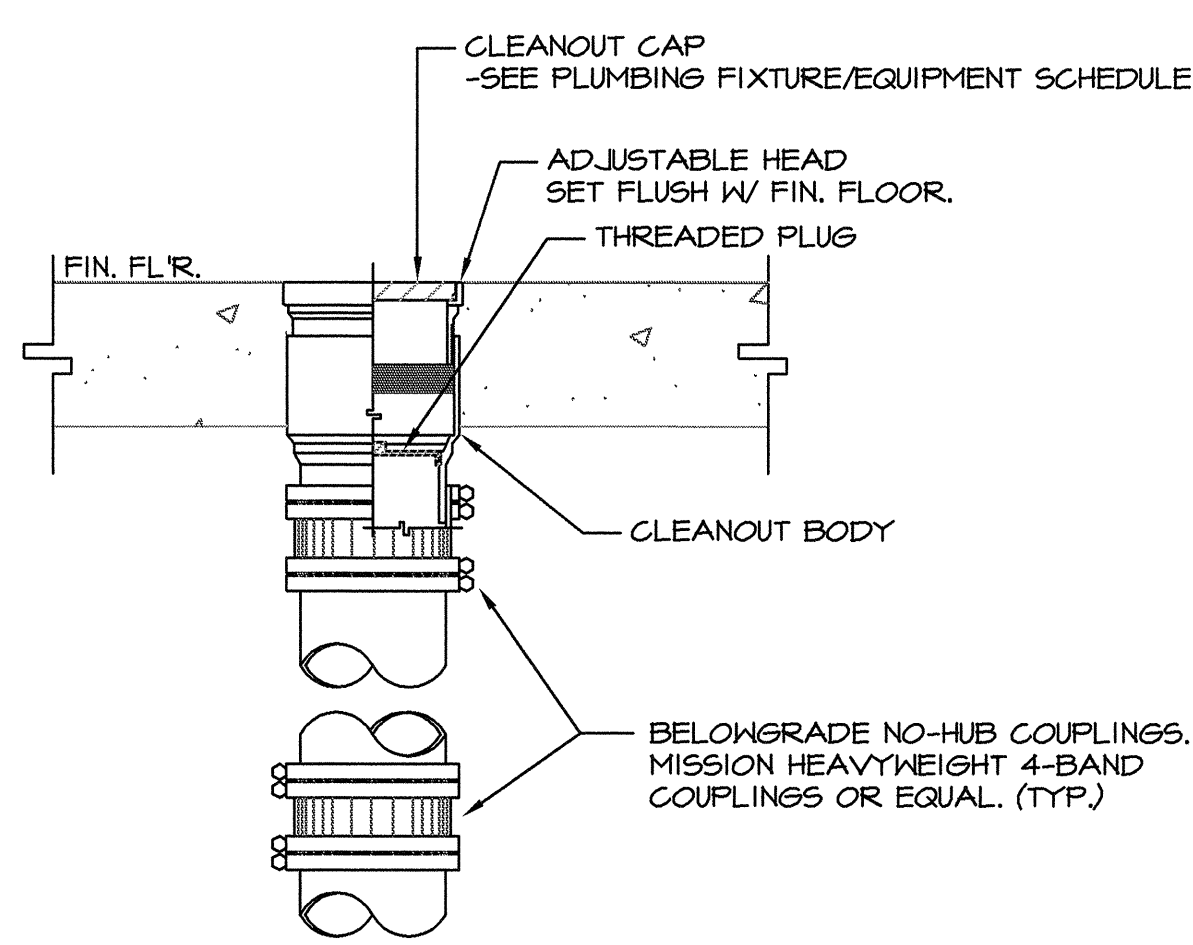
1. PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES DESCRIBED IN ASCE 7-05 13.3 AND 13.6.5.5 ITEM 6, RESPECTIVELY.
2. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH OPA # SUCH AS MASON INDUSTRIES (OPA 344), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
3. COPIES OF THE PRE-APPROVAL MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPING SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SEISMIC BRACING NOTES

1. ALL BRACINGS OF PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINE, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE DSA FIELD ENGINEER.
3. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

PLUMBING LEGEND AND ABBREVIATIONS

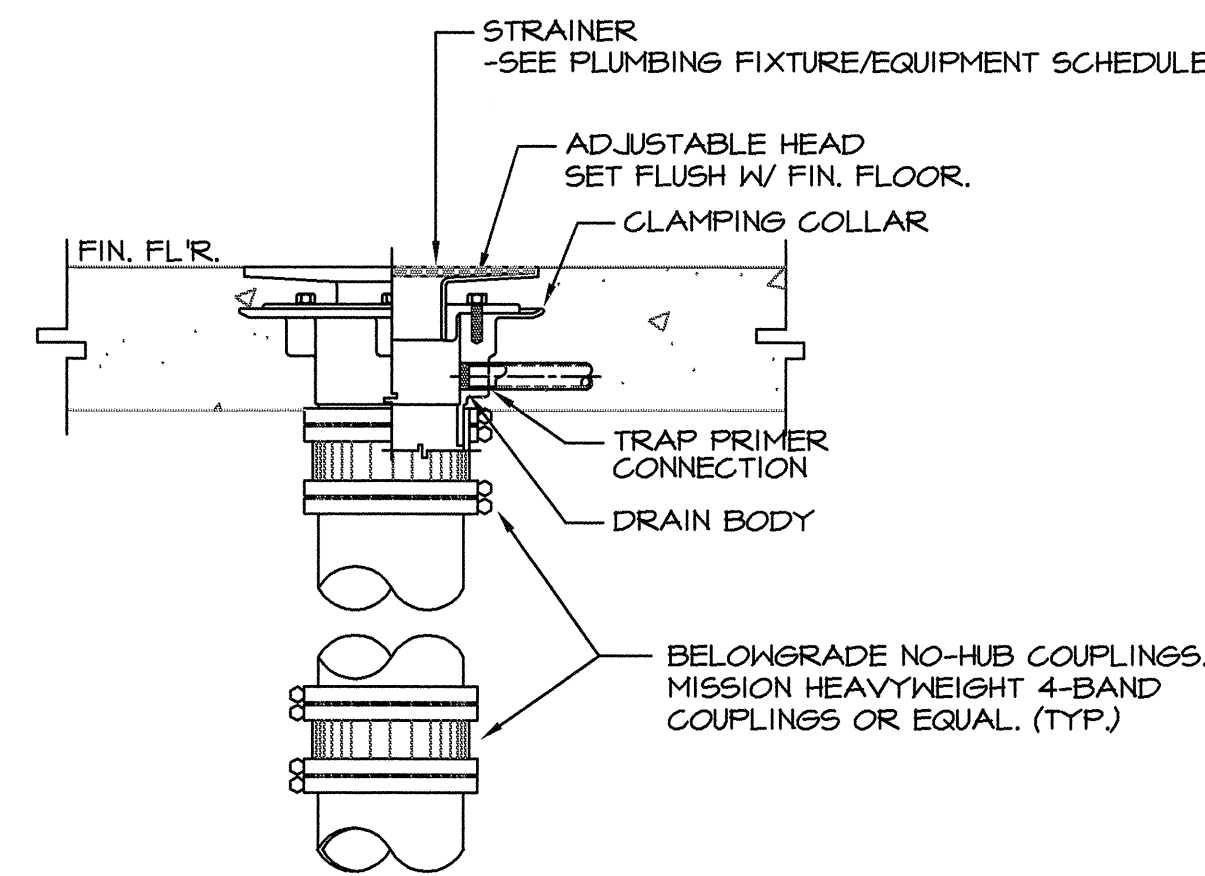
SYMBOL	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
(A)		SHEET NOTE DESIGNATION	φ	DIAMETER	GCO	GRADE CLEANOUT
(M)		ITEM FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR	φ	PHASE	GPH	GALLONS PER HOUR
(E)		ITEM FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR	AF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
(P)		ITEM FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR	ALT.	ALTERNATE	GSM	GALVANIZED SHEET METAL
(P2.1)		DETAIL REFERENCE - UPPER NUMBER=DETAIL NUMBER, LOWER NUMBER=SHEET NUMBER	AP	ACCESS PANEL	HB	HOSE BIBB
SD	SD	STORM DRAIN PIPING	APPROX.	APPROXIMATE	HT	HEIGHT
FCO	FCO	FLOOR CLEANOUT	ARCH.	ARCHITECT, ARCHITECTURAL	IE, I.E.	INVERT ELEVATION
WC	WC	WALL CLEANOUT	BF	BELOW FLOOR	IFC	IN FURRED CEILING
			BFF	BELOW FINISHED FLOOR	IND.	INDIRECT
			BS	BELOW GRADE	INV	INVERT
			BLD.	BUILDING	LBS., #	POUNDS
			BV	BALL VALVE	MAX.	MAXIMUM
			CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	MECH.	MECHANICAL
			CL	CENTERLINE	MFG.	MANUFACTURER
			CI	CAST IRON	MH	MANHOLE
			CKV	CHECK VALVE	MIN.	MINIMUM
			CLG	CEILING	(N)	NEW
			CO	CLEANOUT	OC	ON CENTER
			COMP.	COMPARTMENT	OPER.	OPERABLE
			CONC.	CONCRETE	PC, P.C.	PLUMBING CONTRACTOR
			CONN.	CONNECT, CONNECTION	PLMB.	PLUMBING
			CONT.	CONTINUATION	P.O.C.	POINT OF CONNECTION
			CONTR.	CONTRACTOR	PRESS.	PRESSURE
			CTE	CONNECT TO EXISTING	PSI, PSI.	POUNDS PER SQUARE INCH
			DEMO	DEMOLITION	P/T	PRESSURE/TEMPERATURE
			DIA.	DIAMETER	REF.	REFERENCE
			DIM.	DIMENSION	REQD.	REQUIRED
			DIR.	DIRECT	REV.	REVISION
			DN	DOWN	RHS	ROUND HEAD WOOD SCREWS
			DSA	DIVISION OF THE STATE ARCHITECT	SAD	SEE ARCHITECTURAL DRAWINGS
			DWG	DRAWING	SCD	SEE CIVIL DRAWINGS
			DWGS.	DRAWINGS	SCH 40, 80	SCHEDULE 40 OR 80 PIPE
			(E)	EXISTING	SD	STORM DRAIN
			ELEC.	ELECTRICAL	SED	SEE ELECTRICAL DRAWINGS
			ELEV.	ELEVATION	S.F., SF	SQUARE FEET
			EMBED.	EMBEDMENT	SM	SHEET METAL
			EQ.	EQUAL	SMD	SEE MECHANICAL DRAWINGS
			EST.	ESTIMATED	SOV	SHUT-OFF VALVE
			EXIST.	EXISTING	SS	STAINLESS STEEL
			FBPC	FURNISHED BY PLUMBING CONTRACTOR	SS	SANITARY SEWER
			FCO	FLOOR CLEANOUT	SSD	SEE STRUCTURAL DRAWINGS
			FD	FLOOR DRAIN	SSMH	SANITARY SEWER MANHOLE
			FF, F.F.	FINISHED FLOOR	TP	TRAP PRIMER
			F.H.	FLAT HEAD	T&P	TEMPERATURE AND PRESSURE
			FIN.	FINISHED	TPC	TRAP PRIMER CONNECTION
			F & I	FURNISHED AND INSTALLED	TYP, TYP.	TYPICAL
			FU	FIXTURE UNITS	UNO	UNLESS OTHERWISE NOTED
			GA.	GAUGE	VIF	VERIFY IN FIELD
			GC, G.C.	GENERAL CONTRACTOR	VTR	VENT THROUGH ROOF
					WC	WATER CLOSET
					WC	WATER COLUMN (PRESS.)
					WCO	WALL CLEANOUT
					WH	WATER HEATER
					WOG	WATER OIL GAS
					HT.	HEIGHT



FLUSH FLOOR CLEANOUT DETAIL
NO SCALE

NOTES:

1. AT LOCATIONS WHERE CLEANOUT OCCURS MIDWAY IN PIPING RUN, INSTALL TWO-WAY CLEANOUT FITTING IN PIPING RUN BELOW.
2. PROVIDE UNDERDECK CLAMP AND ROOF SUMP RECEIVER AT DECK LOCATIONS.



FLOOR DRAIN DETAIL
NO SCALE

NOTES:

1. AT LOCATIONS WHERE CLEANOUT OCCURS MIDWAY IN PIPING RUN, INSTALL TWO-WAY CLEANOUT FITTING IN PIPING RUN BELOW.
2. PROVIDE UNDERDECK CLAMP AND ROOF SUMP RECEIVER AT DECK LOCATIONS.

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	SD	V	CH	SPECIFICATIONS AND REMARKS
FD	FLOOR DRAIN	3"	-	-	ZURN ZN-415-P-VP NICKEL BRONZE FLOOR DRAIN WITH INTEGRAL MEMBRANE CLAMP AND ADJUSTABLE COLLAR. PROVIDE VANDALPROOF SECURED TOP. 6" DIA., "TYPE B" STRAINER. VERIFY THAT MOUNTING ARRANGEMENT MEETS THE REQUIREMENTS OF THE FLOOR IN WHICH IT IS TO BE INSTALLED. SEE PLUMBING DETAILS FOR REQUIREMENTS.
FCO	FLOOR CLEANOUT	LINE SIZE 4" MAX.	-	-	ZURN ZN-1400-BP-KC NICKEL BRONZE CLEANOUT WITH BRONZE PLUG, ANCHOR FLANGE AND CLAMPING COLLAR TO SECURE BUILDING WATERPROOF MEMBRANE. SEE PLUMBING DETAILS FOR REQUIREMENTS.

PLUMBING LIST OF DRAWINGS

- PO.1 PLUMBING LEGEND, SCHEDULE, DETAILS AND NOTES
- PL.1 PLUMBING PARTIAL FLOOR PLANS - BUILDING 3

noll & tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

MCCRACKEN & WOODMAN
incorporated
355 Grand Ave. Oakland, CA 94610
www.mccracken-woodman.com
TEL 510-763-4891
FAX 510-763-0619



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01-111618
DATE 2/19/11

CALIFORNIA STATE FIRE MARSHAL APPROVED

APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY
OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL
APPROVAL IS SUBJECT TO THE DIRECTOR. ONE SET OF APPROVED
PLANS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
REVIEWED BY: _____ DATE: _____

CAÑADA COLLEGE
Electrical Infrastructure Replacement Project
4200 Farm Hill Blvd
Redwood City, CA 94061

BID SET

SHEET TITLE

PLUMBING LEGEND AND NOTES

REVISIONS

NO.	DATE	DESCRIPTION

DATE January 14, 2011
DRAWN VT
CHECKED MW
SCALE NO SCALE
JOB NO. 2921.01

SHEET NUMBER
PO.1