LEGEND

	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP	
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE		6" SD
WATER MAIN	6" W	6" W
FIRE WATER MAIN	6" FW	4" FW
DOMESTIC WATER MAIN	6" DW	4" DW
IRRIGATION LINE	2" IRR	4" IRR
SILT FENCE		
FLOW LINE		
CHAIN LINK FENCE	x x	x x
TEMPORARY CONSTRUCTION FENCE		
GAS MAIN	G	2" G
OVERHEAD ELECTRIC LINE	OHE	
UNDERGROUND ELECTRIC LINE	UGE	UGE
STREET LIGHT CONDUIT	SL	
CONTOUR ELEVATION LINE	85	90 / 89
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE		2:1 1%
GAS METER		GM
GAS VALVE		GV
WATER METER		WM
WATER VALVE		WV
FIRE HYDRANT		
BACK FLOW PREVENTOR		
POST INDICATOR VALVE		PIV
FIRE DEPARTMENT CONNECTION		
SIGN		
ACCESSIBLE RAMP		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE		
STORM DRAIN AREA DRAIN		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN CURB INLET		
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROLIER		
JOINT POLE		
CONSTRUCTION DETAIL REFERENCE		15 / C5.2 DETAIL REFERENCE SHEET REFERENCE

ABBREVIATIONS

AB	–	AGGREGATE BASE
AC	–	ASPHALT CONCRETE
AD	–	AREA DRAIN
ADA	–	AMERICANS WITH DISABILITIES ACT
BC	–	BEGINNING OF CURVE
BFP	–	BACK FLOW PREVENTOR
BLDC	–	BUILDING CORNER
BLDG	–	BUILDING
BOS	–	BOTTOM OF STEP
BOW	–	FG @ BOTTOM OF WALL
BVC	–	BEGIN VERTICAL CURVE
BW	–	BACK OF WALK
C	–	CONCRETE OR CIVIL
CB	–	CATCH BASIN
CI	–	CURB INLET
CL	–	CENTER LINE
CO	–	CLEANOUT
CONC	–	CONCRETE
CONST	–	CONSTRUCTION OR CONSTRUCT
CY	–	CUBIC YARD
DI	–	DROP INLET
DW	–	DOMESTIC WATER
DWG	–	DRAWING
E	–	EAST
EC	–	END OF CURVE
EP	–	EDGE OF PAVEMENT
ER	–	END OF RETURN
EVC	–	END VERTICAL CURVE
ELEV	–	ELEVATION
EX., EXIST.	–	EXISTING
FC	–	FACE OF CURB
FF	–	FINISHED FLOOR
FG	–	FINISHED GRADE
FH	–	FIRE HYDRANT
FL	–	FLOW LINE
FS	–	FINISHED SURFACE
FT	–	FOOT
FW	–	FIRE WATER
G	–	GROUND ELEVATION
GB	–	GRADE BREAK
HCR	–	ACCESSIBLE RAMP
HP	–	HIGH POINT
INV	–	INVERT ELEVATION
LIP	–	LIP OF GUTTER
LP	–	LOW POINT
MAX	–	MAXIMUM
MH	–	MANHOLE
MIN	–	MINIMUM
MON	–	MONUMENT
N	–	NORTH
NO	–	NUMBER
NTS	–	NOT TO SCALE
P	–	PAVEMENT ELEVATION
PCC	–	PORTLAND CEMENT CONCRETE
PL	–	PROPERTY LINE
POC	–	POINT ON CONNECTION
PP	–	POWER POLE
PVC	–	POLYVINYL CHLORIDE PIPE
RCP	–	REINFORCED CONCRETE PIPE
RPPA	–	REDUCED PRESSURE PRINCIPLE ASSEMBLY
S	–	SOUTH
SD	–	STORM DRAIN
SS	–	SANITARY SEWER
STA	–	STATION
STD	–	STANDARD
S/W	–	SIDEWALK
TC	–	TOP OF CURB
TD	–	TRENCH DRAIN
TOE	–	TOE OF SLOPE
TOS	–	TOP OF STAIR
TOW	–	FG @ TOP OF WALL
TYP	–	TYPICAL
VC	–	VERTICAL CURVE
WM	–	WATER METER
WV	–	WATER VALVE
W	–	WEST
W/	–	WITH

ADA NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. PATHWAYS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS HANDRAILS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).
4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPENS ONTO THE LANDING.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK, RAMP, OR SITE WALK SHALL BE 2% MAXIMUM. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% IN ANY DIRECTION.
7. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FROM BACK OF CURB FOR ACCESSIBLE CONFORMANCE.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK. THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

EARTHWORK NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. CONTRACTOR IS TO DELIVER TO OWNER THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER. EARTHWORK QUANTITIES SHOWN ON THE PLANS OR REPRESENTED BY THE ENGINEER ARE APPROXIMATE AND ARE FOR GRADING PERMIT APPROVAL ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ANY INVESTIGATION OR STUDIES THAT ARE REQUIRED BY THE CONTRACTOR TO SATISFY THIS REQUIREMENT. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR SAID CUT/FILL AND/OR IMPORT/EXPORT.

BENCHMARK

CITY OF SAUSALITO BENCHMARK NO. 42, U.S.C. & G.S. DISK STAMPED BENCHMARK 30 1936, SET IN CONCRETE BASE OF NW ORNAMENTAL ELEPHANT STATUE AT CITY PARK.

ELEVATION = 16.29 MEAN LOWER LOW WATER DATUM

TEMPORARY ACCESS NOTES

1. CONTRACTOR TO PROVIDE ACCESSIBLE TEMPORARY PEDESTRIAN ACCESS ALONG BRIDGEWAY DURING EXTENT OF CONSTRUCTION.
2. CONTRACTOR TO PROVIDE TEMPORARY BUS STOP IN GENERAL VICINITY OF EXISTING BUS STOP. COORDINATE EXACT LOCATION AND REQUIRED SIZE WITH CITY AND BUS SERVICE PROVIDER.

UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE UNIFORM CONSTRUCTION STANDARDS – ALL CITIES AND COUNTY OF MARIN, MAY 2008; THE STANDARD SPECIFICATIONS –CITIES AND COUNTY OF MARIN, JUNE 1992, AND THE LATEST CALTRANS STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE POLICE AND FIRE DEPARTMENTS.
3. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR CONTRACTOR, PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
5. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE CITY NOR THE DESIGN PROFESSIONAL ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
6. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT U.S.A. 800-227-2600 A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND FACILITIES FOR THE DURATION OF WORK.
7. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
8. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
9. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO.
10. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, ACCESSIBLE BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OR UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
14. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
15. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
16. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
17. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
18. A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
19. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY OR AS DIRECTED BY THE CITY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.
20. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
21. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.
22. REFER TO CONDITIONS OF APPROVAL, SHEET A0.2, FOR ADDITIONAL REQUIREMENTS.

CIVIL SHEET INDEX

C0.0	CIVIL NOTES, LEGEND, AND ABBREVIATIONS
C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C2.1	GRADING & UTILITY PLAN
C2.2	HORIZONTAL CONTROL PLAN
C3.1	CONSTRUCTION DETAILS
C3.2	CONSTRUCTION DETAILS
C4.1	EROSION CONTROL PLAN AND DETAILS

UNAUTHORIZED CHANGES AND USES

CAUTION : The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of the plans.

SAUSALITO PUBLIC RESTROOMS

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DATE _____, 2012

MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-13

No.	Description	Date
7	ISSUED FOR BID	05/7/12
6	REVISIONS	05/7/12
3	REVISIONS	04/13/12
2	ISSUED FOR PLAN CHECK COMMENTS	04/13/12
1	ISSUED FOR BUILDING PERMIT	03/02/12

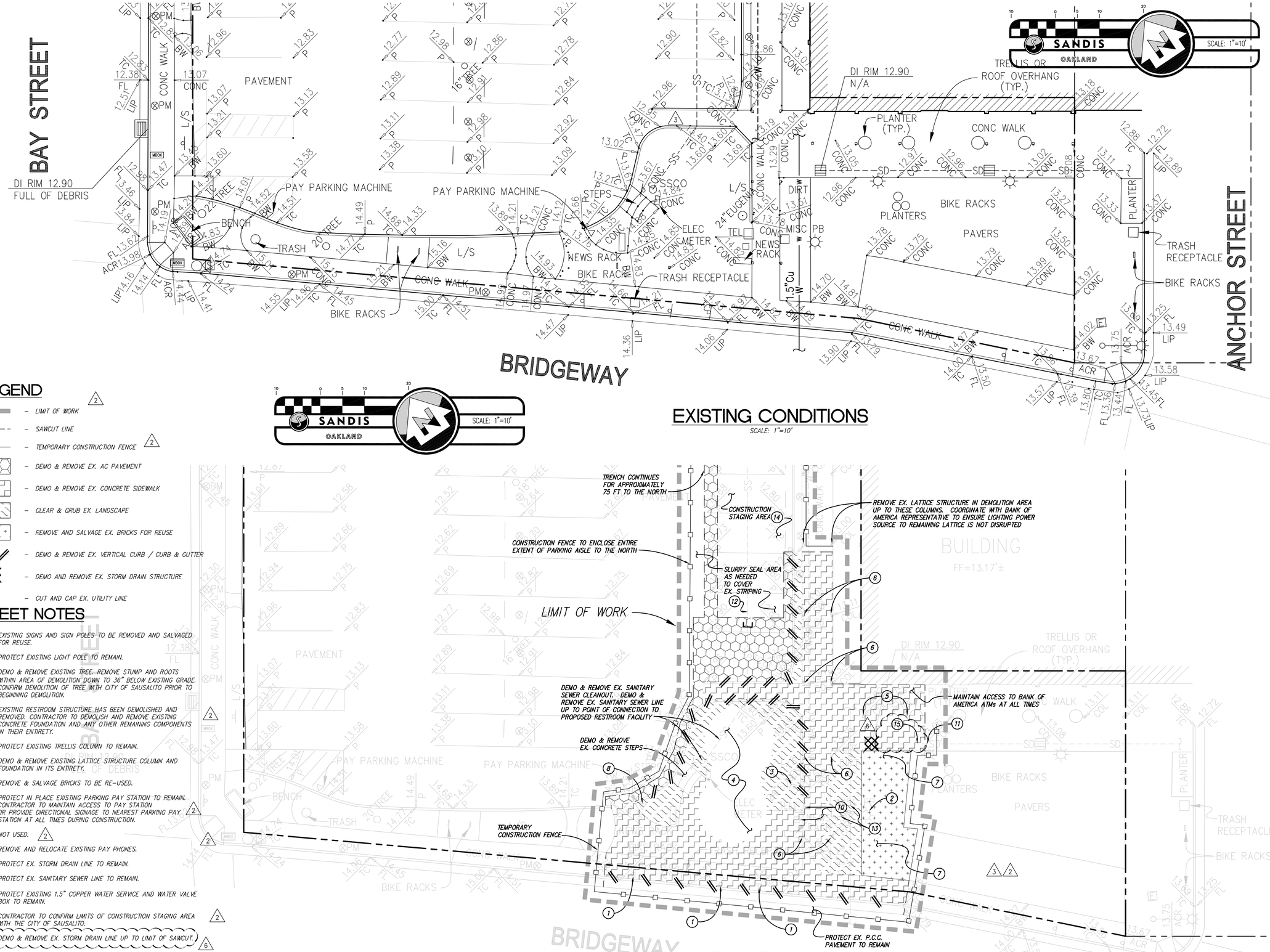
REVISIONS

DATE: 03/02/2012
PROJECT NO.: 611018
DRAWN BY: JR

CIVIL NOTES, LEGEND, AND ABBREVIATIONS

C0.0

C3W8B



EXISTING CONDITIONS

SCALE: 1"=10'

DEMOLITION PLAN

SCALE: 1"=10'

LEGEND

- LIMIT OF WORK
- SAWCUT LINE
- TEMPORARY CONSTRUCTION FENCE
- DEMO & REMOVE EX. AC PAVEMENT
- DEMO & REMOVE EX. CONCRETE SIDEWALK
- CLEAR & GRUB EX. LANDSCAPE
- REMOVE AND SALVAGE EX. BRICKS FOR REUSE
- DEMO & REMOVE EX. VERTICAL CURB / CURB & GUTTER
- DEMO AND REMOVE EX. STORM DRAIN STRUCTURE
- CUT AND CAP EX. UTILITY LINE

SHEET NOTES

1. EXISTING SIGNS AND SIGN POLES TO BE REMOVED AND SALVAGED FOR REUSE.
2. PROTECT EXISTING LIGHT POLE TO REMAIN.
3. DEMO & REMOVE EXISTING TREE. REMOVE STUMP AND ROOTS WITHIN AREA OF DEMOLITION DOWN TO 36" BELOW EXISTING GRADE. CONFIRM DEMOLITION OF TREE WITH CITY OF SAUSALITO PRIOR TO BEGINNING DEMOLITION.
4. EXISTING RESTROOM STRUCTURE HAS BEEN DEMOLISHED AND REMOVED. CONTRACTOR TO DEMOLISH AND REMOVE EXISTING CONCRETE FOUNDATION AND ANY OTHER REMAINING COMPONENTS IN THEIR ENTIRETY.
5. PROTECT EXISTING TRELLIS COLUMN TO REMAIN.
6. DEMO & REMOVE EXISTING LATTICE STRUCTURE COLUMN AND FOUNDATION IN ITS ENTIRETY.
7. REMOVE & SALVAGE BRICKS TO BE RE-USED.
8. PROTECT IN PLACE EXISTING PARKING PAY STATION TO REMAIN. CONTRACTOR TO MAINTAIN ACCESS TO PAY STATION OR PROVIDE DIRECTIONAL SIGNAGE TO NEAREST PARKING PAY STATION AT ALL TIMES DURING CONSTRUCTION.
9. NOT USED.
10. REMOVE AND RELOCATE EXISTING PAY PHONES.
11. PROTECT EX. STORM DRAIN LINE TO REMAIN.
12. PROTECT EX. SANITARY SEWER LINE TO REMAIN.
13. PROTECT EXISTING 1.5" COPPER WATER SERVICE AND WATER VALVE BOX TO REMAIN.
14. CONTRACTOR TO CONFIRM LIMITS OF CONSTRUCTION STAGING AREA WITH THE CITY OF SAUSALITO.
15. DEMO & REMOVE EX. STORM DRAIN LINE UP TO LIMIT OF SAWCUT.

C3W&B

File: X:\P\611018\PLAN SETS\WERNER ASSOCIATES BLDG - SITE DESIGN\C1.1.dwg Date:May 07, 2012 - 1:48pm

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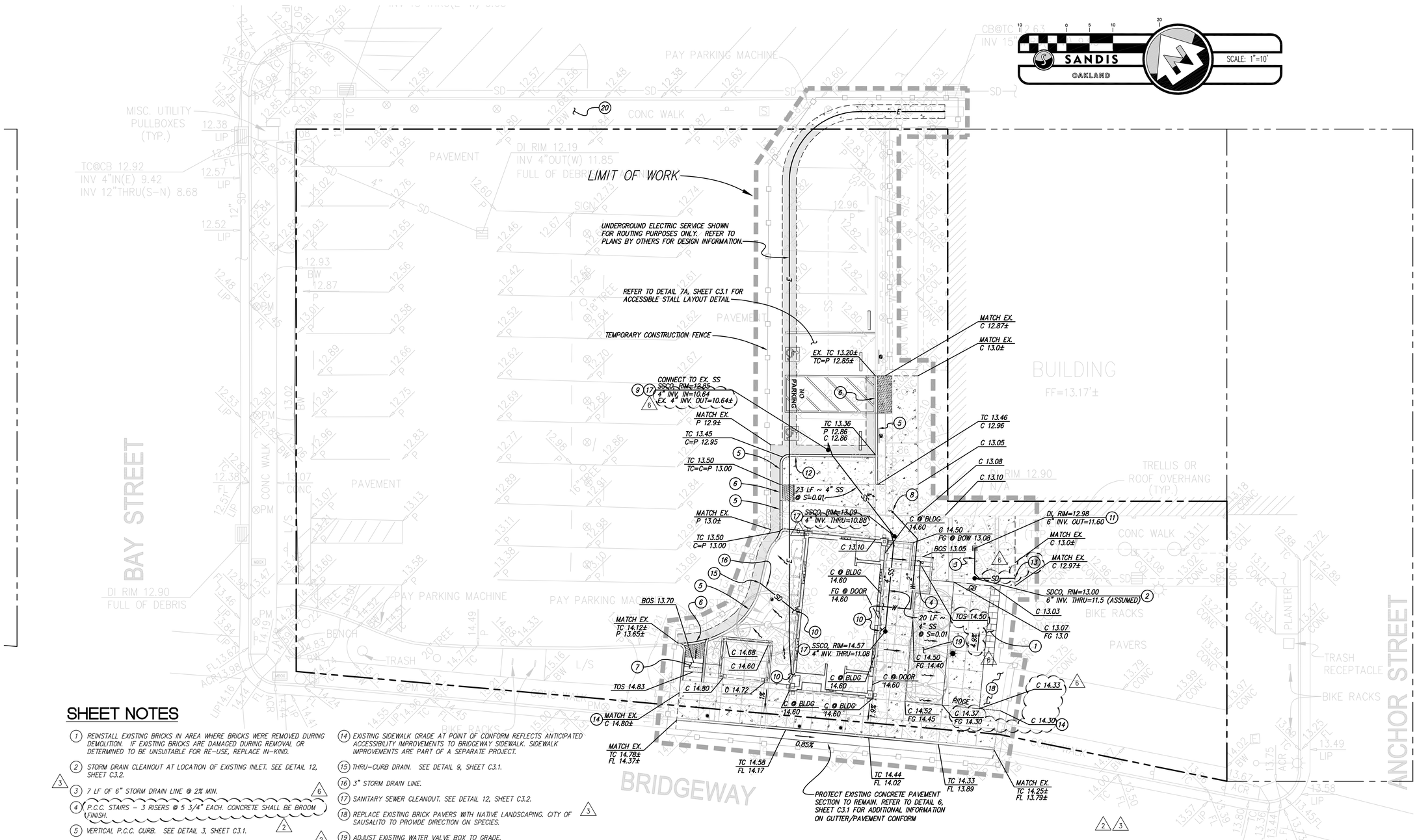
DRAWN BY: JR

EXISTING CONDITIONS AND DEMOLITION PLAN

C1.1



SHEET NOTES

1. REINSTALL EXISTING BRICKS IN AREA WHERE BRICKS WERE REMOVED DURING DEMOLITION. IF EXISTING BRICKS ARE DAMAGED DURING REMOVAL OR DETERMINED TO BE UNSUITABLE FOR RE-USE, REPLACE IN-KIND.
2. STORM DRAIN CLEANOUT AT LOCATION OF EXISTING INLET. SEE DETAIL 12, SHEET C3.2.
3. 7 LF OF 6" STORM DRAIN LINE @ 2% MIN.
4. P.C.C. STAIRS – 3 RISERS @ 5 3/4" EACH. CONCRETE SHALL BE BROOM FINISH.
5. VERTICAL P.C.C. CURB. SEE DETAIL 3, SHEET C3.1.
6. FLUSH P.C.C. CURB. SEE DETAIL 4, SHEET C3.1.
7. P.C.C. STAIRS – 3 RISERS @ 4.5" EACH. CONCRETE SHALL BE BROOM FINISH.
8. CONNECT TO EX. WATER LINE. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND LOCATION IN FIELD AND REPORT FINDINGS TO ENGINEER.
9. CONNECT TO EX. SANITARY SEWER LINE. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND LOCATION IN FIELD AND REPORT FINDINGS TO ENGINEER.
10. BUILDING POINT OF CONNECTION. REFER TO PLANS BY OTHERS FOR CONTINUATION.
11. STORM DRAIN INLET. SEE DETAIL 11, SHEET C3.2.
12. PERFORATED P.C.C. CURB. SEE DETAIL 8, SHEET C3.1.
13. CONNECT TO EX. STORM DRAIN LINE. CONTRACTOR TO VERIFY EXISTING PIPE SIZE AND LOCATION IN FIELD AND REPORT FINDINGS TO ENGINEER.
14. EXISTING SIDEWALK GRADE AT POINT OF CONFORM REFLECTS ANTICIPATED ACCESSIBILITY IMPROVEMENTS TO BRIDGEWAY SIDEWALK. SIDEWALK IMPROVEMENTS ARE PART OF A SEPARATE PROJECT.
15. THRU-CURB DRAIN. SEE DETAIL 9, SHEET C3.1.
16. 3" STORM DRAIN LINE.
17. SANITARY SEWER CLEANOUT. SEE DETAIL 12, SHEET C3.2.
18. REPLACE EXISTING BRICK PAVERS WITH NATIVE LANDSCAPING. CITY OF SAUSALITO TO PROVIDE DIRECTION ON SPECIES.
19. ADJUST EXISTING WATER VALVE BOX TO GRADE.
20. TOW AWAY SIGN SHALL BE LOCATED AT ENTRANCE/EXIT OF PARKING LOT. SEE DETAIL 7C, SHEET C3.1 FOR SIGN DETAIL.

LEGEND

- AC DEEP LIFT (1 / C3.1)
- CONCRETE PAVEMENT (2 / C3.1)
- BRICKS. SEE SHEET NOTE (1)
- DETECTABLE WARNING SURFACE (7B / C3.1)

GENERAL NOTES

A. CONTRACTOR TO MAKE ALL NECESSARY UTILITY CONNECTIONS TO PROPOSED RESTROOM FACILITY. THIS INCLUDES DOMESTIC WATER, SANITARY SEWER, AND ELECTRIC.

B. CONTRACTOR TO INSTALL REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) CONFORMING TO MARIN MUNICIPLE WATER DISTRICT (MMWD) ON EXISTING DOMESTIC WATER LATERAL FEEDING RESTROOM IF ONE IS NOT ALREADY PRESENT. IF NO RPPA IS PRESENT, CONTRACTOR TO MEASURE STATIC WATER PRESSURE AT BUILDING POINT OF CONNECTION AND REPORT FINDINGS TO ENGINEER.

C. CONTRACTOR TO REPLACE ALL PAVEMENT / CURB STRIPING DISTURBED DURING CONSTRUCTION IN-KIND UNLESS OTHERWISE INDICATED ON PLANS.

EARTHWORK QUANTITIES:

IMPORT =	12 C.Y.
EXPORT =	0 C.Y.
FILL =	15 C.Y.
CUT =	3 C.Y.

NOTE:

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CARRY OUT THE CUT/FILL, IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES AS SHOWN ON THE PLANS REGARDLESS OF THE ESTIMATED EARTHWORK QUANTITIES AS INDICATED. SIGNIFICANT REVISIONS TO THE QUANTITIES NEED REVIEW BY THE CITY.

PIPE MATERIAL SCHEDULE

STORM DRAIN PIPE: PVC SDR 26 CONFORMING TO ASTM D3034
SANITARY SEWER PIPE: CAST IRON PIPE CONFORMING TO AWWA C1908
WATER PIPE: COPPER (TYPE K) CONFORMING TO ASTM B88.

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REVISIONS

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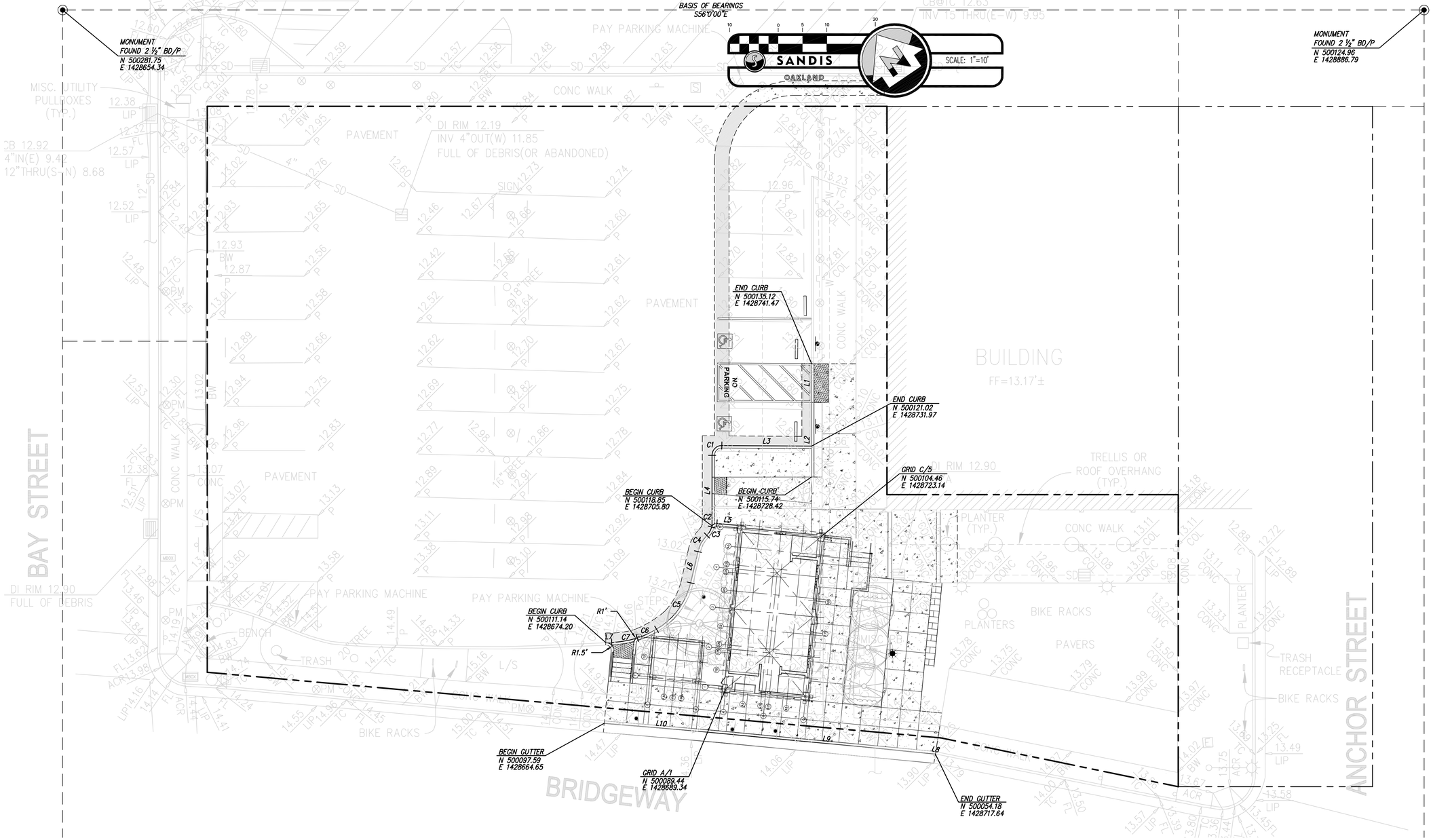
DRAWN BY: JR

GRADING AND UTILITY PLAN

C2.1

CS/WAS



LINE TABLE		
LINE	LENGTH	BEARING
L1	8.00'	N33°58'17"E
L2	15.36'	N33°58'17"E
L3	18.49'	N55°35'38"W
L4	14.56'	N33°58'17"E
L5	4.37'	S50°31'09"E
L6	6.59'	N46°57'51"E
L7	1.20'	S58°27'49"E
L8	0.22'	N44°47'18"W
L9	44.78'	S50°31'09"E
L10	23.51'	N51°02'22"W

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	3.16	2.00	90°26'05"
C2	1.40	1.00	80°08'16"
C3	2.04	4.00	29°12'29"
C4	3.86	7.00	31°35'12"
C5	12.22	15.00	46°41'37"
C6	4.35	20.00	12°28'16"
C7	5.38	20.00	15°24'27"

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2	ISSUED FOR PLAN CHECK COMMENTS	04/13/12
1	ISSUED FOR BUILDING PERMIT	03/02/12

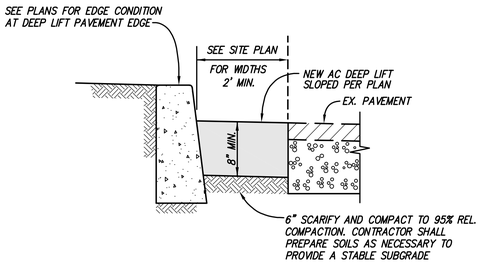
REVISIONS

DATE: 03/02/2012
PROJECT NO.: 611018
DRAWN BY: JR

HORIZONTAL CONTROL PLAN

△2 **C2.2**

CWMS



AC DEEP LIFT 1
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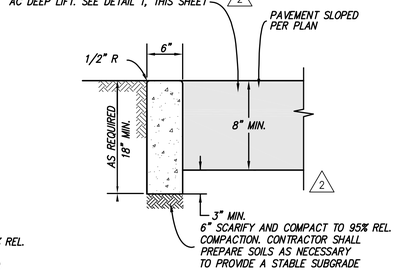
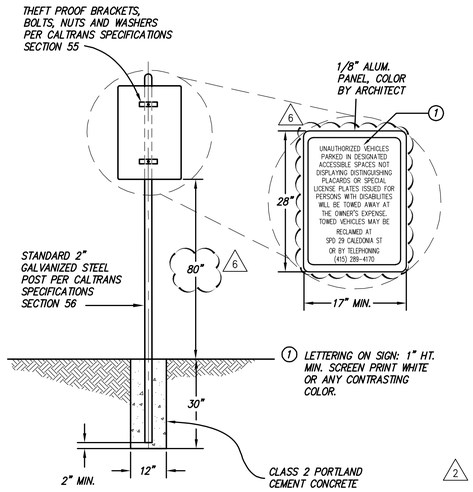


NOTE: SEE PLAN FOR VARYING EDGE / PAVEMENT CONDITION.

6" FLUSH CURB 4
N.T.S.



TOW AWAY SIGN DETAIL 7C
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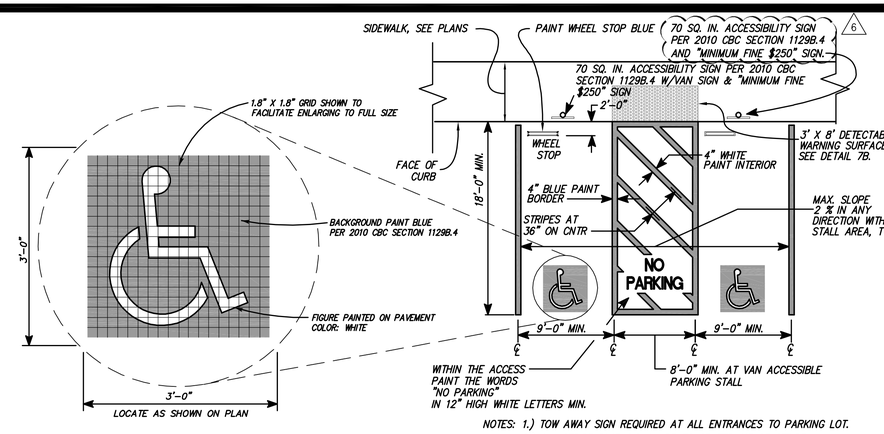
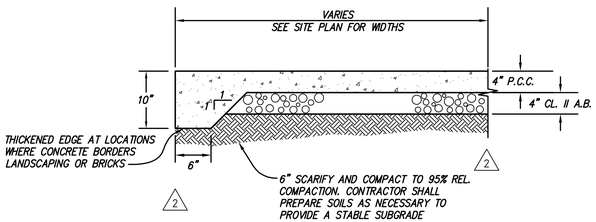


NOTES: 1.) TOW AWAY SIGN REQUIRED AT ALL ENTRANCES TO PARKING LOT.
2.) ALL STRIPE DIMENSIONS ARE TO CENTERLINE OF STRIPE.

ADA PARKING DETAIL 7A
N.T.S.



PEDESTRIAN CONCRETE SECTION 2
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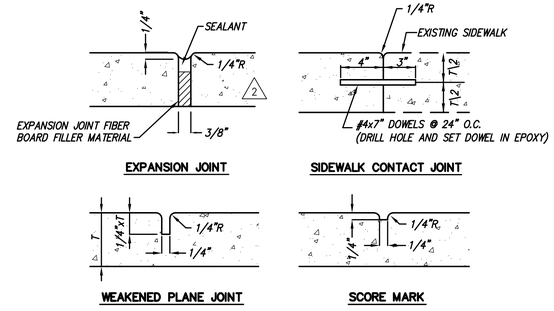
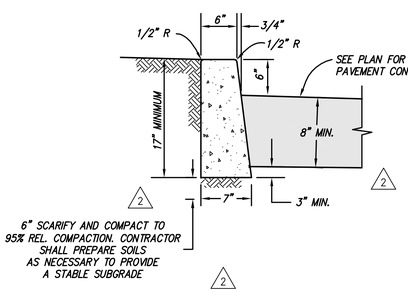
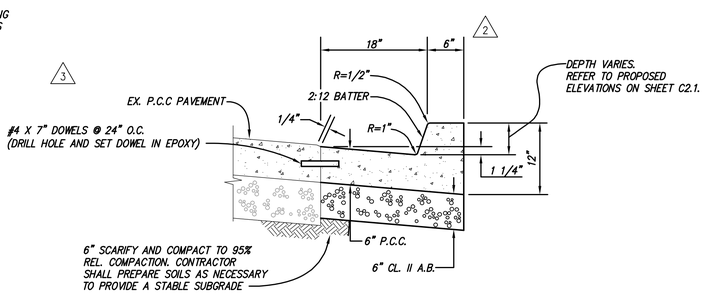


NOTE: ALTERNATE BETWEEN EXPANSION AND WEAKENED PLANE JOINTS AT 5' O.C., TYPICAL ALONG SIDEWALKS

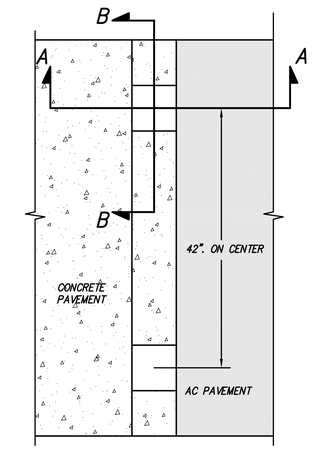
TYPICAL CONCRETE DETAILS 5
N.T.S.

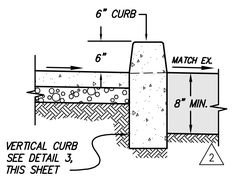


6" VERTICAL CURB 3
N.T.S.

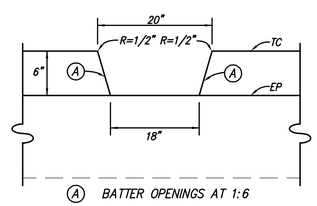


6" CURB AND GUTTER 6
N.T.S.



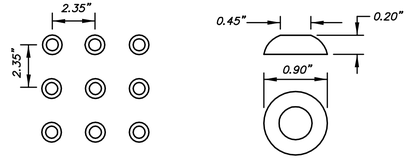


SECTION A–A



SECTION B–B

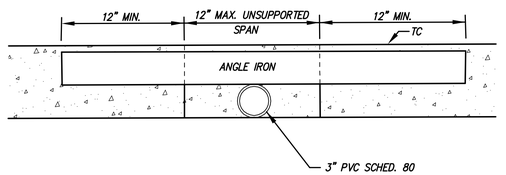
CURB PERFORATION 8
N.T.S.



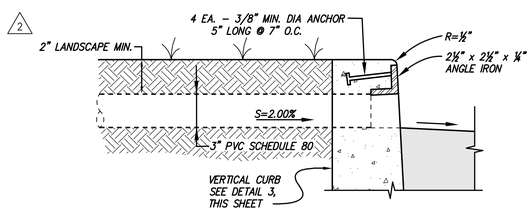
RAISED TRUNCATED DOME PATTERN

RAISED TRUNCATED DOME

DETECTABLE WARNING SURFACE 7B
N.T.S.



ELEVATION AT FACE OF CURB



SECTION VIEW

"THRU CURB" DRAIN 9
N.T.S.

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APN # 065-073-02

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SUNNYVALE ROSEVILLE OAKLAND

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REVISIONS

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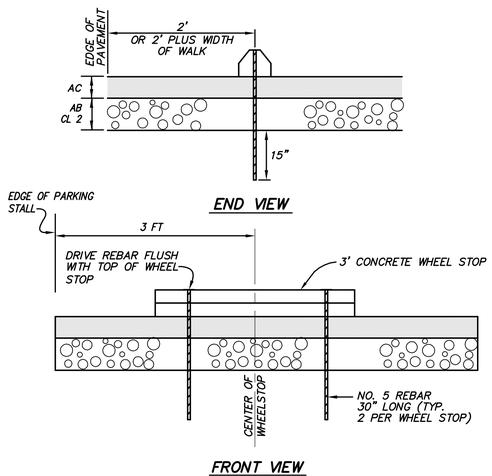
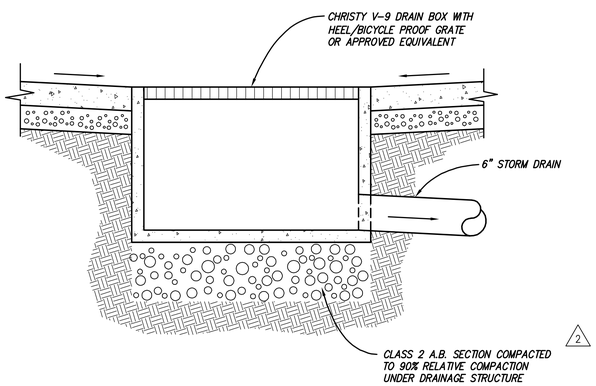
CONSTRUCTION DETAILS

C3.1

CWMS

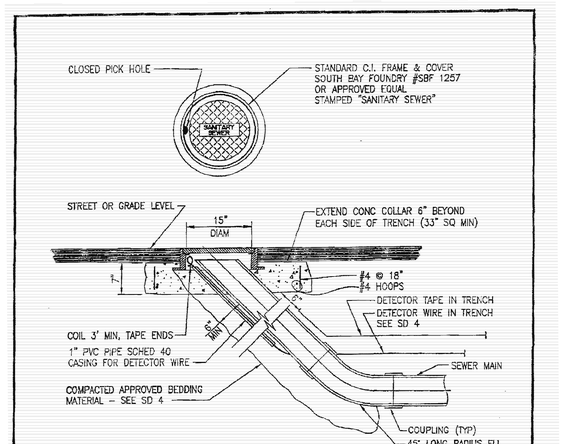


3' WHEEL STOP 10
N.T.S.



AREA DRAIN 11
N.T.S.

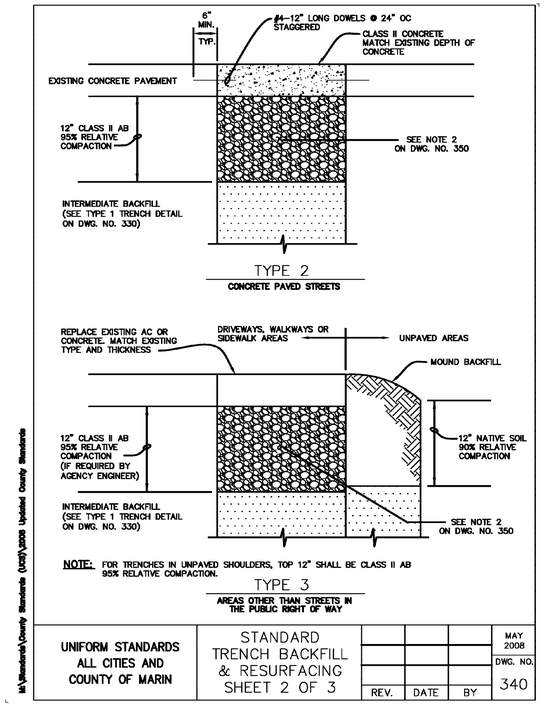
2



STANDARD ROD HOLE

SANITARY DISTRICT #1 OF MARIN COUNTY, CALIFORNIA		
STANDARD 6 INCH RODDING INLET		
1996		SD 3

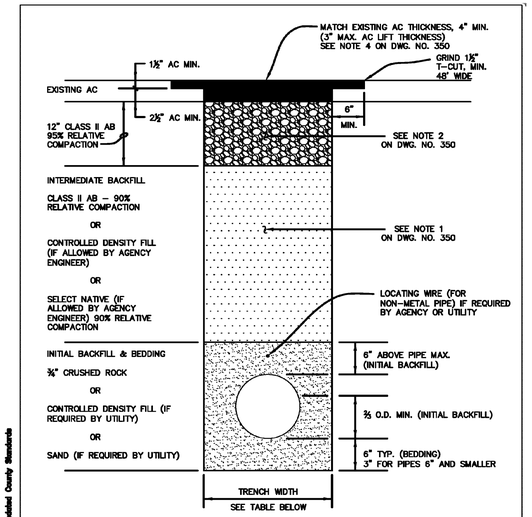
ROD HOLE 12
N.T.S.



M:\Standards\County Standards (UDS)\2008 Updated County Standards

UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN	STANDARD TRENCH BACKFILL & RESURFACING SHEET 2 OF 3	REV.	DATE	BY	MAY 2008 DWG. NO. 340

TRENCH BACKFILL 13B
N.T.S.



NOTE: IF ROADWAY HAS EXISTING AC OVER CONCRETE, TRENCH RESTORATION SHALL BE DETERMINED BY THE AGENCY ENGINEER.

TYPE 1
ASPHALT CONCRETE PAVED STREETS

CONDUIT SIZE	LESS THAN 6"	6" TO 24"	OVER 24" TO 60"	OVER 60"
TRENCH WIDTH	O.D. + 12"	O.D. + 24"	O.D. + 24"	O.D. + 24"

FOR PIPES WITH MORE THAN 36" OF COVER, THE AGENCY ENGINEER MAY ALLOW A REDUCED TRENCH WIDTH INCLUDING A CHANGE TO A SELF-COMPACTING ENGINEERED TYPE OF INITIAL BACKFILL MATERIAL.

M:\Standards\County Standards (UDS)\2008 Updated County Standards

UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN	TRENCH DETAILS SHEET 1 OF 3	REV.	DATE	BY	MAY 2008 DWG. NO. 330

TRENCH DETAIL 13A
N.T.S.

MATERIAL AND COMPACTION REQUIREMENT FOR TRENCH BACKFILL

1. INTERMEDIATE BACKFILL SHALL BE CLASS II AGGREGATE BASE. SUITABLE NATIVE OR IMPORTED GRANULAR MATERIAL MAY BE USED IF ALLOWED BY AGENCY ENGINEER. RELATIVE COMPACTION SHALL BE AT LEAST 90%.
2. CLASS II AGGREGATE BASE SHALL CONFORM TO THE STATE STANDARD SPECIFICATIONS. MINIMUM RELATIVE COMPACTION SHALL BE 95%. IF PAVEMENT HAVING A STRUCTURAL SECTION GREATER THAN 15" IS CUT, ADDITIONAL BASE MATERIAL MAY BE REQUIRED BY THE AGENCY ENGINEER. BASE SHALL BE PLACED AND COMPACTED PRIOR TO PLACING OF TEMPORARY PAVING.
3. TESTING OF MATERIALS AND PERFORMANCE SHALL BE IN CONFORMANCE WITH THE METHODS STATED IN THE LATEST EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, EXCEPT THAT RELATIVE COMPACTION MAY BE TESTED BY AASHTO METHOD T180, ASTM D-1557, OR TEST METHOD CALIF. 231 (NUCLEAR DENSITOMETER).
4. PLACE AC IN 3" MAX. LIFTS, EXCEPT FINAL LIFT SHALL BE 2 1/2" MAX. ADDITIONAL THICKNESS AND LIFTS OF ASPHALT CONCRETE MAY BE REQUIRED TO MATCH EXISTING STRUCTURAL SECTION ON MAJOR ROADS, OR PER LOCAL JURISDICTION REQUIREMENTS.
5. "JETTING" OF BACKFILL MATERIAL IS NOT PERMITTED.
6. THE USE OF PEA GRAVEL (OR SIMILAR ROUNDED AGGREGATE), IS NOT PERMITTED.
7. THE USE OF CONTROLLED DENSITY FILL (CDF) SHALL BE APPROVED BY THE AGENCY ENGINEER PRIOR TO PLACEMENT.
8. TRENCH EDGES SHALL BE TRIMMED TO A NEAT LINE AS REQUIRED BY THE AGENCY ENGINEER. TRIMMING SHALL BE BY SAWCUT OR ROTARY GRINDER.
9. THE SURFACE COURSE OF TRENCH RESTORATION SHALL EXTEND TO THE LIP OF GUTTER IF THE EDGE OF TRENCH IS WITHIN 4' OF THE LIP OF GUTTER, AND TO THE EDGE OF PAVEMENT IF THE EDGE OF TRENCH IS WITHIN 4' OF AN UNPAVED SHOULDER.
10. CONTRACTOR MUST SHORE ALL TRENCHES IN CONFORMANCE WITH OSHA AND STATE SAFETY STANDARDS.

UNIFORM STANDARDS ALL CITIES AND COUNTY OF MARIN	TRENCH NOTES SHEET 3 OF 3	REV.	DATE	BY	MAY 2008 DWG. NO. 350

TRENCH NOTES 13C
N.T.S.

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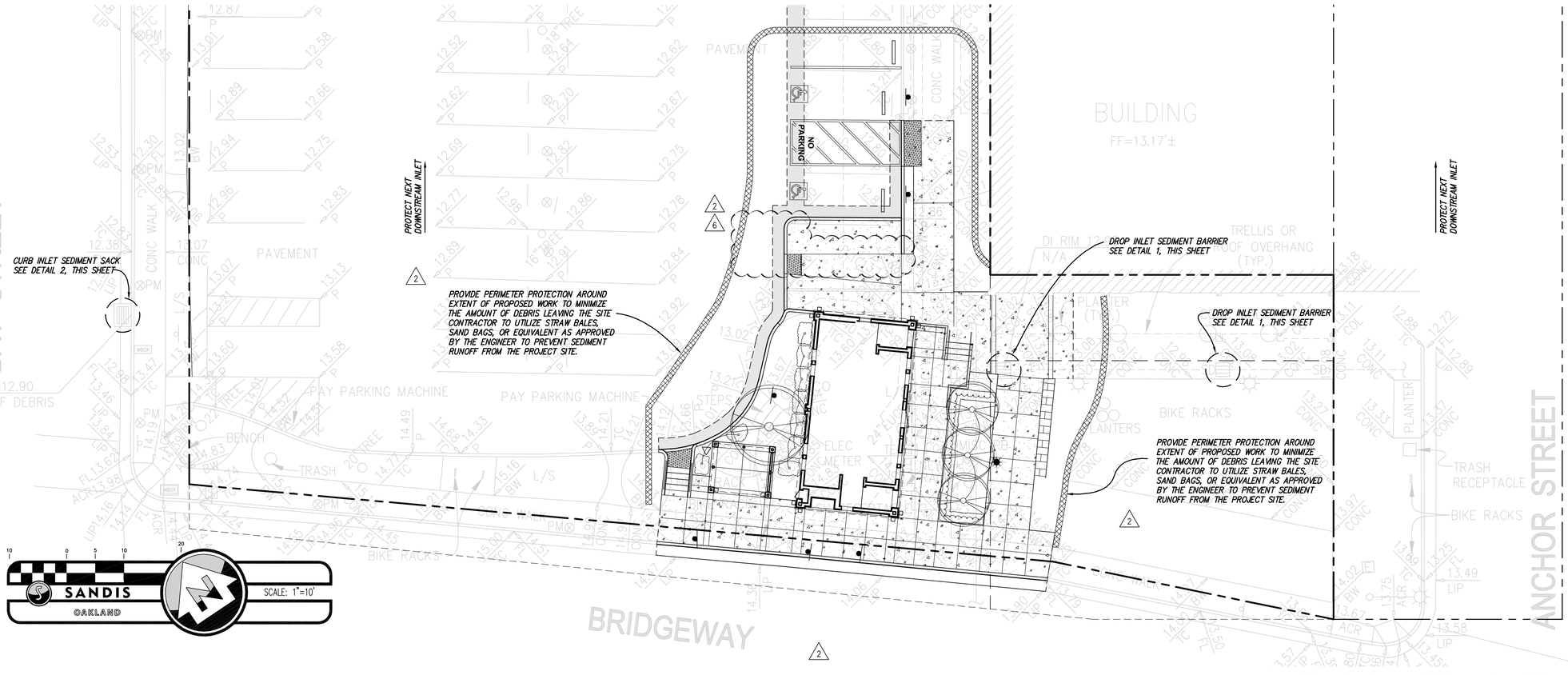
REVISIONS

DATE:	**03/02/2012**
PROJECT NO.:	**611018**
DRAWN BY:	**JR**

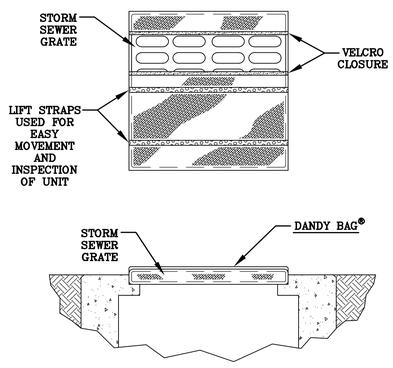
CONSTRUCTION DETAILS

C3.2

CAWMS



DANDY BAG®

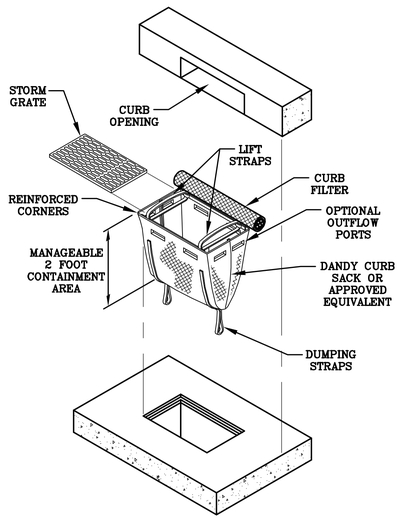


NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

DETAIL 1

DROP INLET SEDIMENT BARRIER



NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

DETAIL 2

CURB INLET SEDIMENT SACK

EROSION CONTROL NOTE

1. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, AND INLET FILTERS ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
2. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED THROUGHOUT THE DURATION OF THE PROJECT. REPLACEMENT SUPPLIES SHOULD BE KEPT ON SITE.
3. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES DURING CONSTRUCTION FOR CONTROL OF STORM WATER RUNOFF (E.G. GRAVEL BAGS AT CATCH BASIN INLETS). CONTACT LOCAL AGENCY FOR INFORMATION ON BEST MANAGEMENT PRACTICES.
4. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP STREET SURFACE OF ALL STREETS ABUTTING PROJECT AREA ON A NIGHTLY BASIS; AND AS NECESSARY TO MAINTAIN A CLEAN PROJECT SITE AND PREVENT TRACKING ONTO ADJACENT STREETS.
5. CONTRACTOR TO PROVIDE CONTROLLED CONCRETE WASH-OUT AREA ONSITE OR PERFORM WASH-OUT TASK AT AN APPROPRIATE OFFSITE LOCATION.
6. CONTRACTOR SHALL MAINTAIN A CLEAN SITE WITH GOOD HOUSEKEEPING MEASURES INCLUDING ENSURING STOCKPILES ARE COVERED WHILE NOT IN USE.

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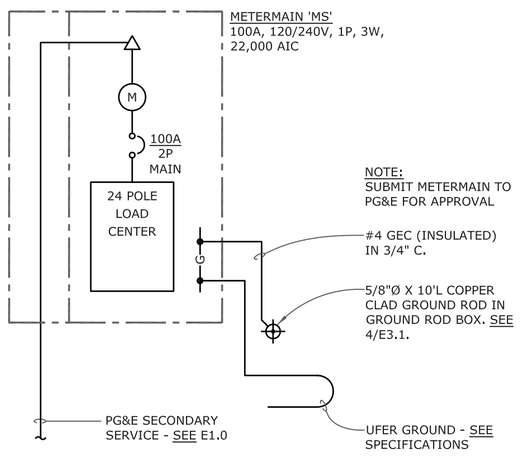
EROSION CONTROL PLAN AND DETAILS

C4.1

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
CATV	CABLE TV
C.O.	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
(E)	EXISTING
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT.	EXTERIOR
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU.	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
NL	NIGHT LIGHT FIXTURE ON 24 HOURS
O.A.H.	OVERALL HEIGHT
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
U.O.N.	UNLESS OTHERWISE NOTED



SINGLE LINE DIAGRAM - ELECTRICAL
SCALE: NONE

1 E0.1

SYMBOLS LIST

- MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
- COPPER GROUND ROD
- FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
- FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N.
- GFI — 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- WALL MOUNTED LUMINAIRE
- WALL OR CEILING MOUNTED LINEAR FLUORESCENT LUMINAIRE
- OS — WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; WATTSTOPPER #PW-100 OR EQUAL . SET TO FIXED 30 MINUTE TIME DELAY AND MAX SENSITIVITY
- LINE VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR WITH HIGH DENSITY LENS AND COSMETIC ADAPTER FOR CEILING INSTALLATIONS WITH 4" SQUARE J-BOX. WATTSTOPPER #CI-355-1 OR EQUAL.
- WEATHERPROOF ENCLOSURE
- CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
- CONDUIT AND WIRE RUN EXPOSED
- CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR (INCLUDED BUT NOT INDICATED), NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
- GROUND WIRE
- (#10) — WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT
- FLEXIBLE METALLIC CONDUIT
- HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
- COMPLETE CONNECTION OF EQUIPMENT
- CONDUIT STUBBED OUT, CAPPED AND MARKED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- G — COPPER GROUNDING ELECTRODE CONDUCTOR, U.O.N.
- AC-1 — MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
- FA1 — LIGHT FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE
- 3 / E-6 — DETAIL DESIGNATION, SEE DETAIL 3, SHEET E-6
- 1 — NUMBERED SHEET NOTE

GENERAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT. VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
5. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE, HEIGHT, AND LOCATION OF ALL OWNER SUPPLIED EQUIPMENT OR EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
6. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
7. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
8. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
9. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
10. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS.
11. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
12. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
13. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
14. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
15. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
16. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING PADS, CONDUITS, PULLBOXES AND CLEARANCES MEET THE UTILITY COMPANIES' REQUIREMENTS PRIOR TO INSTALLATION.
18. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.
19. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
20. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
21. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
22. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
23. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
24. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT LOCATION AND ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
25. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
26. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.

TITLE 24 NOTES

1. PURSUANT TO SECTION 146(a)3.O OF THE 2008 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6, BUILDINGS LESS THAN 1000 SQ. FT. OF OCCUPANCY TYPE 'U' ARE EXEMPT FROM TITLE 24.

LIST OF DRAWINGS

E0.1 SYMBOLS LIST, GENERAL NOTES, LIST OF DRAWINGS & DIAGRAMS

E1.0 SITE PLAN - ELECTRICAL

E2.1 FLOOR PLAN - LIGHTING

E3.1 FLOOR PLAN - POWER AND DETAILS

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STATE OF CALIFORNIA

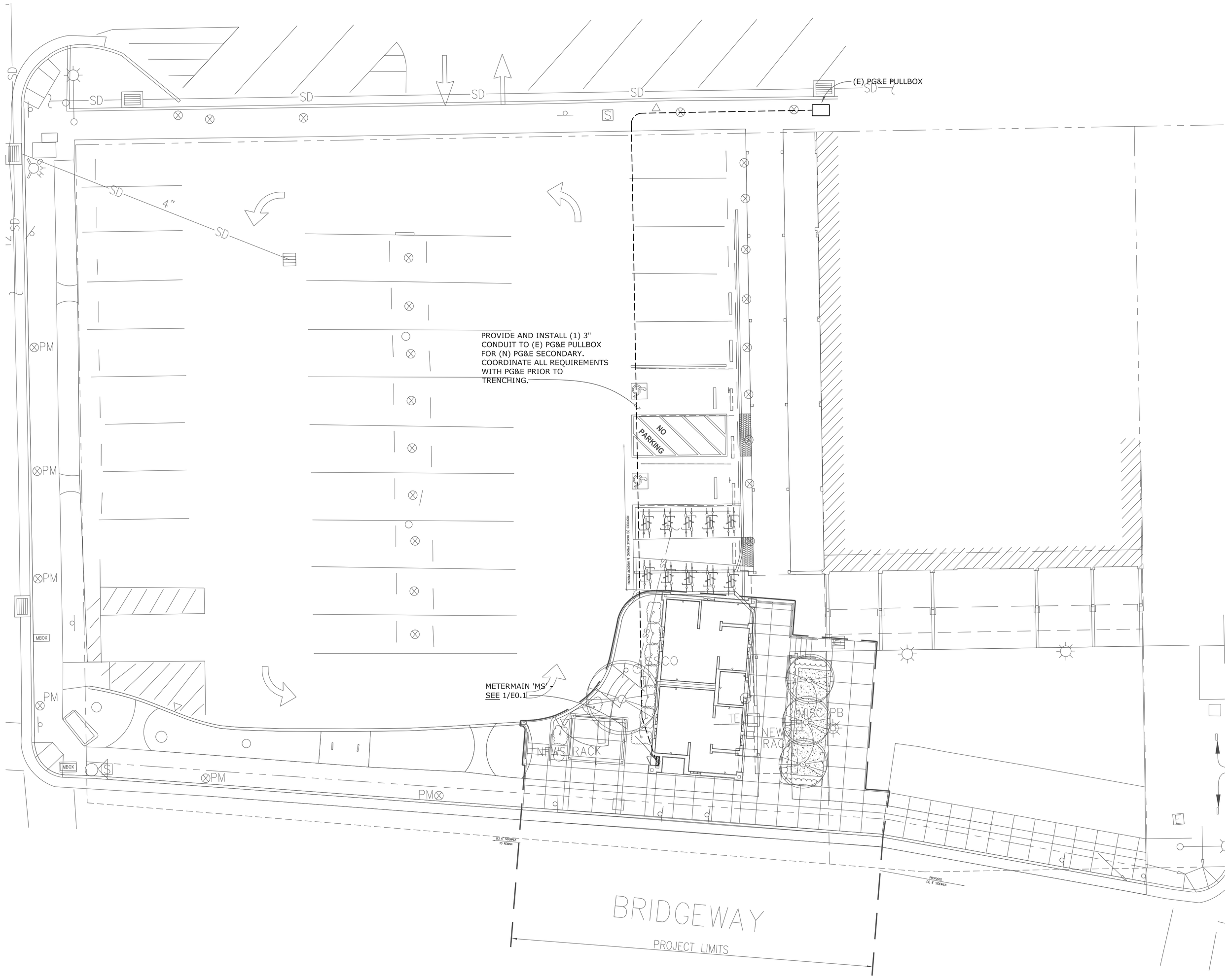
No.	Description	Date
7	ISSUE FOR BID	5/7/12
3	REVISIONS	4/13/2012
2	ISSUED PER PLAN CHECK COMMENTS	4/13/2012
1	ISSUED FOR BUILDING PERMIT	3/2/2012

REVISIONS

DATE: 02/29/12
PROJECT NO.: 1201-300
DRAWN BY: TV

SYMBOLS LIST, GENERAL NOTES, LIST OF DRAWINGS & DIAGRAMS

E0.1



SITE PLAN - ELECTRICAL

SCALE: 1" = 10'-0"

1 / E1.0

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SITE PLAN - ELECTRICAL

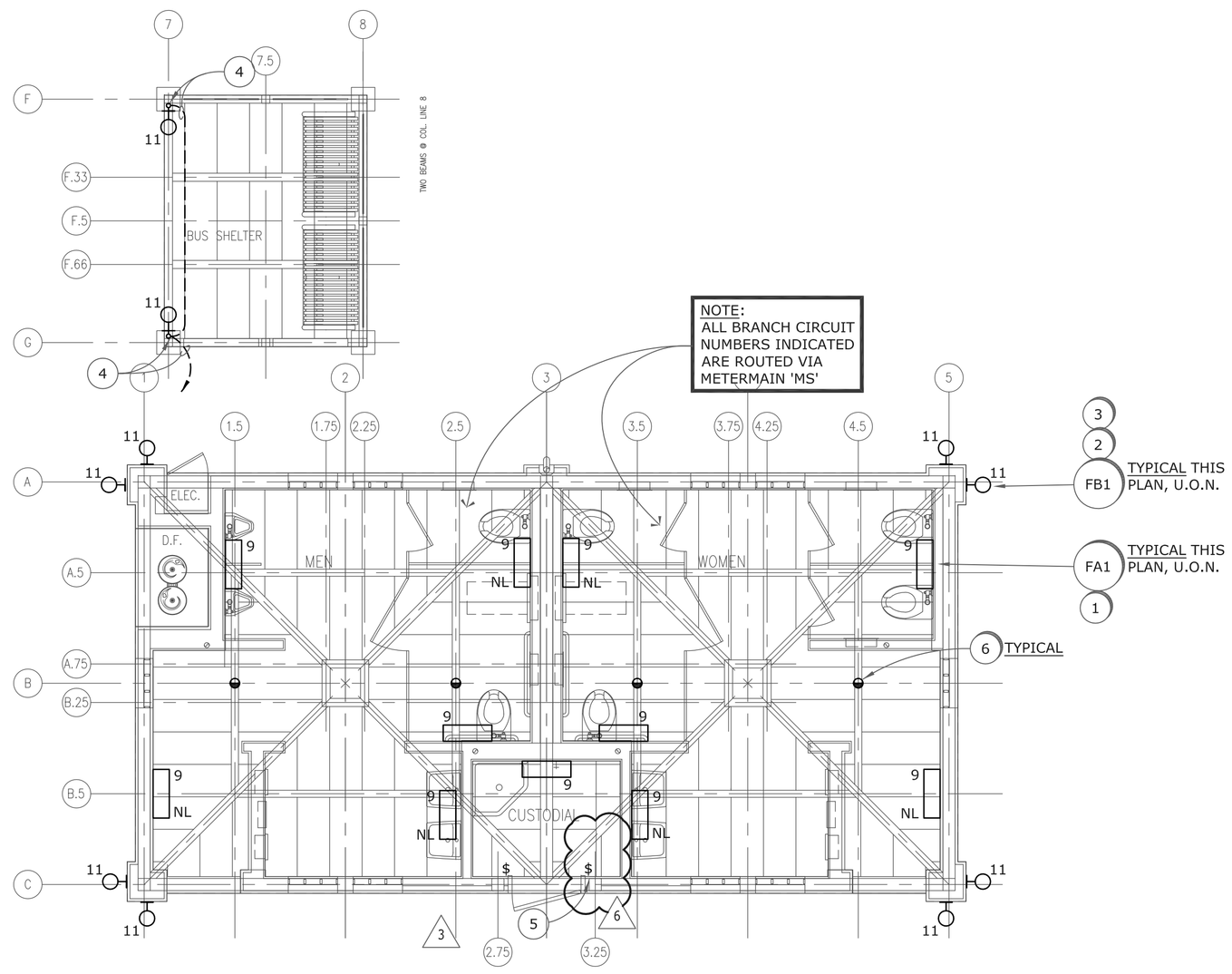
E1.0

NUMBERED SHEET NOTES

1. WALL MOUNTED AT 7'-0" A.F.F. TO THE CENTERLINE OF THE LUMINAIRE.
2. WALL MOUNTED AT 8'-0" A.F.F. TO THE TOP OF THE LUMINAIRE.
3. LUMINAIRE SHALL BE SPECIFIED WITH INTEGRAL PHOTOCELL FOR EXTERIOR CONTROL.
4. PROVIDE AND INSTALL CONCEALED CONDUIT DROP IN COLUMN FOR UNDERGROUND TRANSITION TO METERMAIN 'MS'.
5. PROVIDE AND INSTALL MAINTENANCE LIGHTING OVERRIDE SWITCH FOR COMPLETE SHUT OFF OF BATHROOM INTERIOR LIGHTING. PROVIDE SWITCH WITH ENGRAVED LABEL, "INTERIOR RESTROOM LIGHTING OVERRIDE"
6. CEILING MOUNTED OCCUPANCY SENSOR, SEE E0.1. (3)

LUMINAIRE SCHEDULE

FA1	DESCRIPTION:	SURFACE MOUNTED COMPACT FLUORESCENT WALL SCONCE, TRIANGULAR CROSS-SECTION, 8" H. X 23" W. X 4" DEEP, DIE-FORMED MARINE GRADE ALUMINUM WITH POLYESTER POWDER-COAT PAINT FINISH, FORMED PEARLESCENT 100% DR ACRYLIC LENS WITH MATTE FINISH. PROVIDE TRIM BARS AT EACH END OF THE LUMINAIRE. WET LOCATION LISTED.
	MANUFACTURER:	KENALL # FS518T-2TB-MPA-MW-26Q-2-120
	BALLAST:	INTEGRAL ELECTRONIC
	LAMPS:	(2) CFQ26W
	WATTAGE:	48
	VOLTAGE:	120
	REMARKS:	MOUNTED HORIZONTALLY
FB1	DESCRIPTION:	SURFACE MOUNTED COMPACT FLUORESCENT WALL SCONCE, WEDGE SHAPE WITH BLUNT FRONT EDGE, 7" H. X 8" W. X 8.5" DEEP, FORMED BRONZE HOUSING WITH NATURAL BRONZE FINISH. OPAL WHITE ACRYLIC LENS WITH INTEGRAL PHOTOCELL CONTROL. WET LOCATION LISTED.
	MANUFACTURER:	SHAPER # 682-WP-8"-CFL/1/42-120V-NBZ-BN-PH
	BALLAST:	INTEGRAL ELECTRONIC
	LAMPS:	(1) CFTR42W
	WATTAGE:	44
	VOLTAGE:	120



FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

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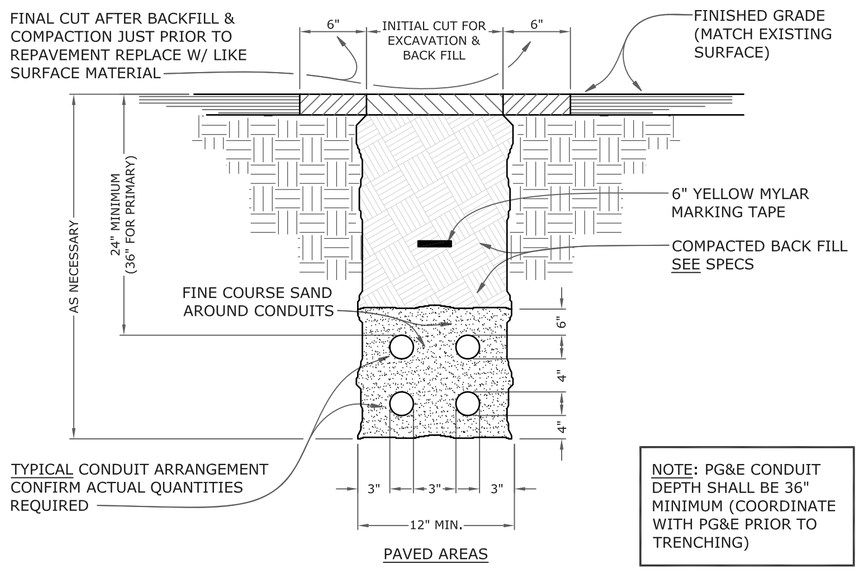
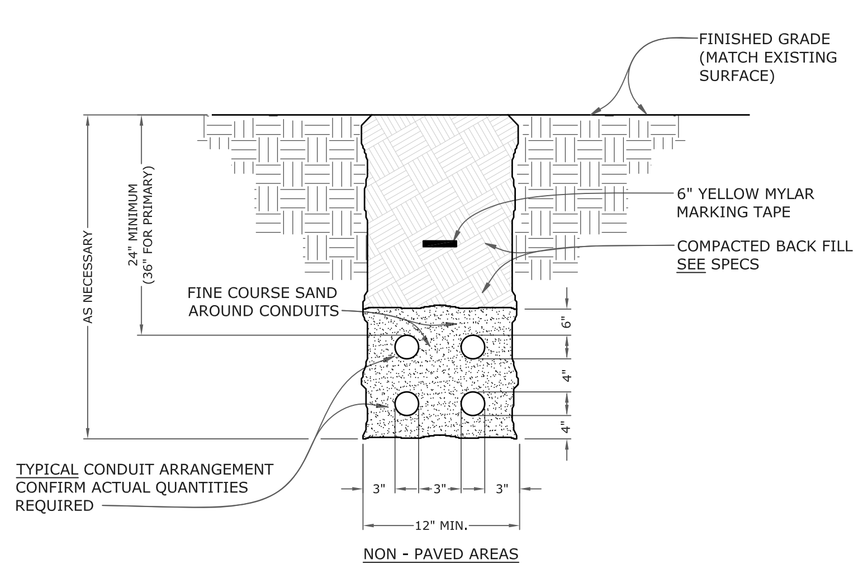
DRAWN BY: TV

FLOOR PLAN - LIGHTING

E2.1



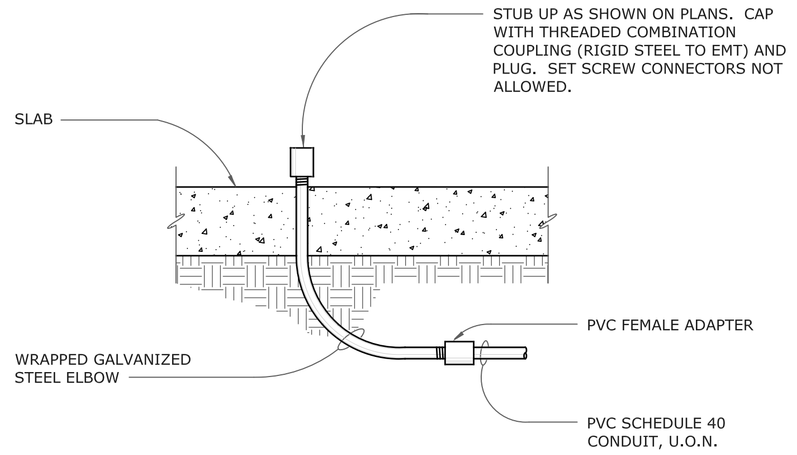
NOTE: PG&E CONDUIT DEPTH SHALL BE 36" MINIMUM (COORDINATE WITH PG&E PRIOR TO TRENCHING)



TYPICAL TRENCH SECTIONS

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\TRENCH\PTREN005

2 E3.1



CONDUIT STUB-UP

SCALE: NONE
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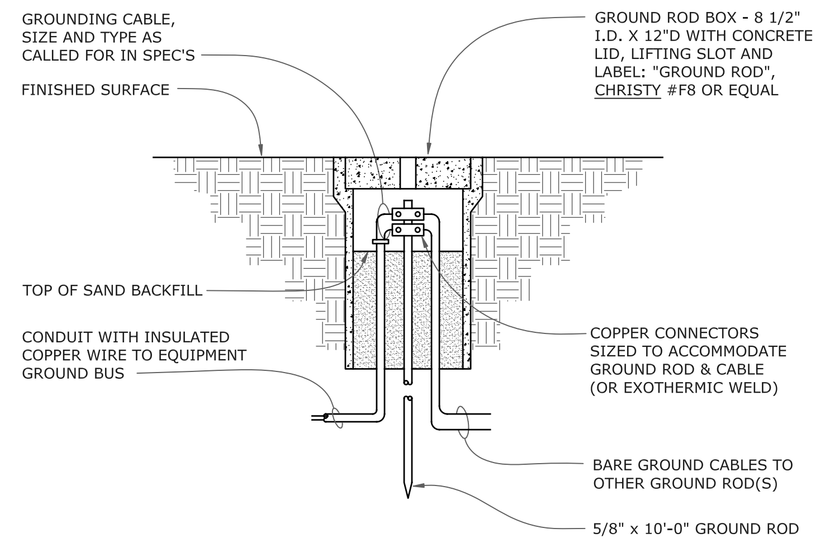
3 E3.1



GROUND ROD INSTALLATION

SCALE: NONE
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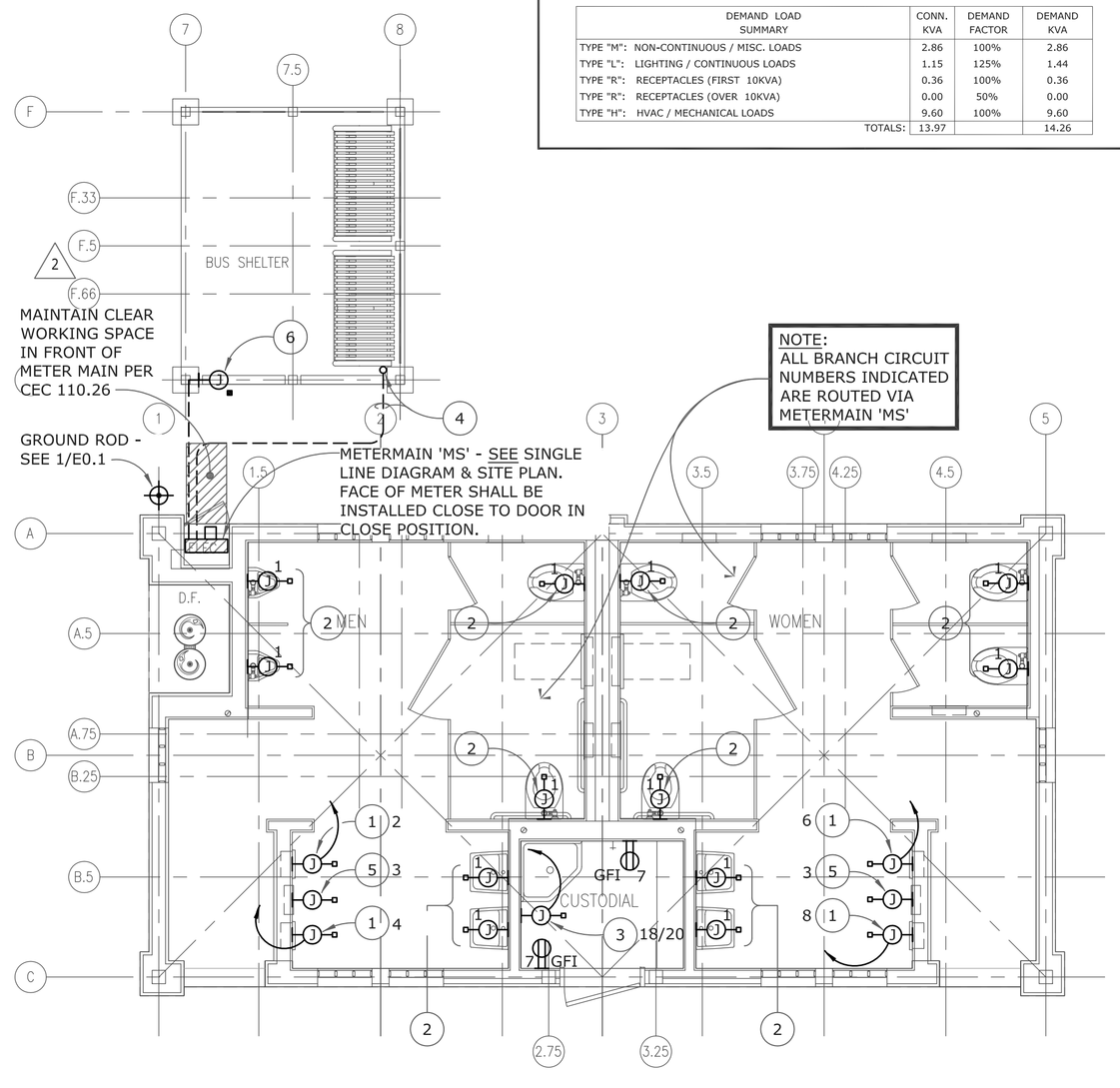
4 E3.1



FLOOR PLAN - POWER AND SIGNAL

SCALE: 1/4" = 1'-0"

1 E3.1

NUMBERED SHEET NOTES

1. PROVIDE AND INSTALL (2) #10 & (1) #12G. IN 3/4" C. HOMERUN TO METERMAIN 'MS' FOR AUTOMATIC HAND DRYER. COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.
2. PROVIDE AND INSTALL BRANCH CIRCUIT WIRING WITH COMPLETE CONNECTIONS TO AUTOMATIC FLUSH OR SINK VALVE. COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.
3. PROVIDE AND INSTALL (2) #8 & (1) #10G. IN 3/4" C. HOMERUN TO METERMAIN 'MS' FOR 240VAC, 1PH, 9.6kW ELECTRIC WATER HEATER.
4. PROVIDE AND INSTALL (1) 1" C.O. WITH PULLWIRE FOR FUTURE POWER PROVISIONS. STUB-UP AND CAP CONDUIT.
5. PROVIDE AND INSTALL BRANCH CIRCUIT WIRING WITH COMPLETE CONNECTIONS TO AUTOMATIC HAND TOWEL DISPENSER. COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.
6. PROVIDE AND INSTALL FLUSH J-BOX WITH 1" C.O. WITH PULLWIRE FOR FUTURE POWER PROVISIONS.

PANEL MS

VOLTS: 120 / 240 V
PHASE: 1
WIRE: 3 W
BUSSING: 100A
POLES: 24P

MAIN BRKR: 100A
FEEDER: SEE SINGLE LINE
CONDUIT: SEE SINGLE LINE
MOUNTED: SURFACE
AIC RATING: 22KAIC

LOAD DESCRIPTION	TYPE	A	B	BRKR.	CKT.	CKT.	BRKR.	A	B	TYPE	LOAD DESCRIPTION
FLUSH & SINK VALVUES - MNS & WMNS RM	M	0.60		20/1	1	2	20/1	0.54		M	HAND DRYER - MENS
AUTOMATIC TOWEL DISP. - MNS & WMNS RM	M		0.10	20/1	3	4	20/1		0.54	M	HAND DRYER - MENS
SPARE				20/1	5	6	20/1	0.54		M	HAND DRYER - WOMENS
REC - CUSTODIAN	R		0.36	20/1	7	8	201/		0.54	M	HAND DRYER - WOMENS
LTG - INTERIOR - MNS & WMNS	L	0.60		20/1	9	10	20/1				SPARE
LTG - EXTERIOR - RESTROOM & BUS SHELTER	L		0.55	20/1	11	12	20/1				SPARE
SPARE				20/1	13	14	20/1				SPARE
SPARE				20/1	15	16	20/1				SPARE
SPARE				20/1	17	18	50/2	4.80		H	HOT WATER HEATER - CUSTODIAN
SPARE				20/1	19	20			4.80	H	HOT WATER HEATER - CUSTODIAN
SPARE				20/1	21	22	20/1				SPARE
SPARE				20/1	23	24	20/1				SPARE
		1.20	1.01					5.88	5.88		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	2.86	100%	2.86
TYPE "L": LIGHTING / CONTINUOUS LOADS	1.15	125%	1.44
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.36	100%	0.36
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	9.60	100%	9.60
TOTALS:	13.97		14.26

PHASE A: 7.08 **KVA**
PHASE B: 6.89 **KVA**

59.00 **MAX AMPS / PHASE**

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7	ISSUE FOR BID	5/7/12
3	REVISIONS	4/13/2012
2	ISSUED PER PLAN CHECK COMMENTS	4/13/2012
1	ISSUED FOR BUILDING PERMIT	3/2/2012

No.	Description	Date

REVISIONS

DATE: 02/29/12
PROJECT NO.: 1201-300
DRAWN BY: TV

FLOOR PLAN - POWER AND SIGNAL

E3.1

Plumbing Fixture Piping Schedule

FIXTURE TYPE	MINIMUM BRANCH PIPE SIZE *				CONNECTION SIZE (VERIFY)		REMARKS
	WASTE	VENT	COLD WATER	HOT WATER	COLD WATER	HOT WATER	
WATER CLOSET (FLUSH VALVE)	4"	2"	1 1/4"	——	1"	——	1.28 GALLONS/FLUSH (MAXIMUM)
URINAL	2"	1 1/2"	1"	——	3/4"	——	0.5 GALLONS/FLUSH (MAXIMUM)
LAVATORY	2"	1 1/2"	3/4"	3/4"	1/2"	1/2"	1 1/2" TRAP & TRAP ARM. INSTALL CLEANOUT IN TRAP.
MOP SINK	3"	2"	3/4"	3/4"	1/2"	1/2"	
DRINKING FOUNTAIN	2"	1 1/2"	3/4"	——	1/2"	——	HI/LOW ADA UNIT
FLOOR DRAIN	3"	2"	1/2"**	——	1/2"**	——	
INSIDE HOSE BIBB	——		3/4"	——	1/2"	——	

2

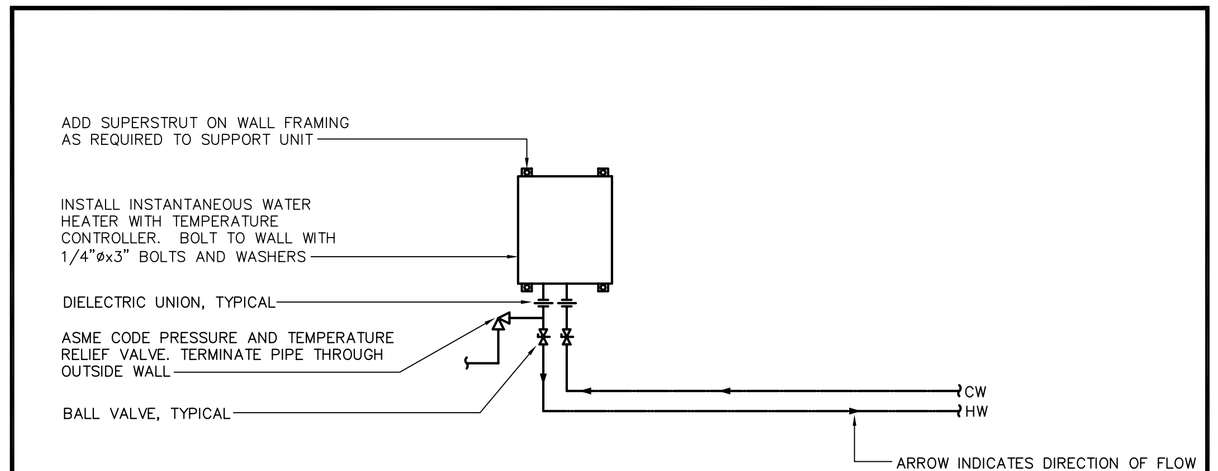
* TO WITHIN 5 FEET OF FIXTURE OR CLOSER

** TRAP PRIMER

Instantaneous Electric Water Heater Schedule

UNIT NO.	MFGR.	MODEL NO.	WATER HEATING CAPACITY		ELEMENT		POWER		REMARKS
			GPM	TEMP. RISE	QTY.	KW (EA.)	VOLTAGE	PHASE	
EWH-1	STIEBEL ELTRON	DHC 10-2	1.5	44	1	9.6	240	1	(1) VERIFY CORRECT VOLTAGE

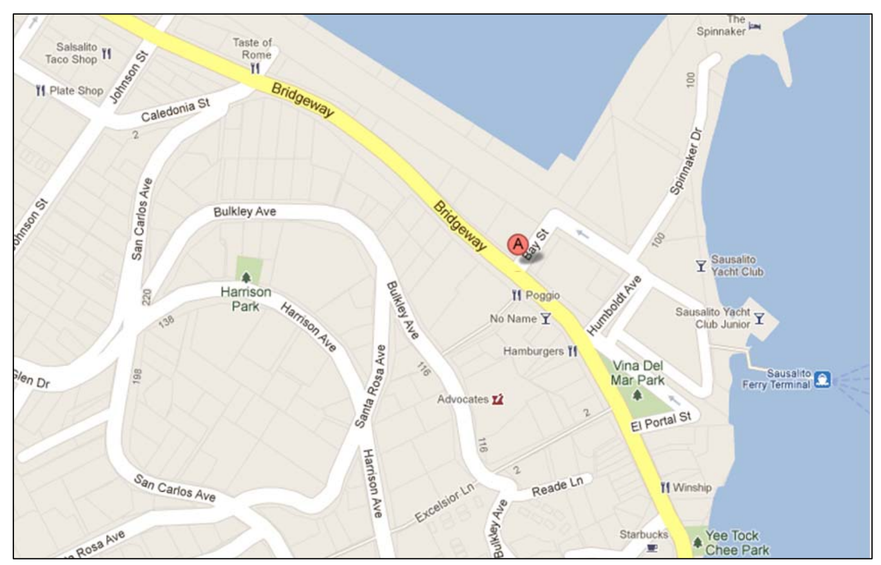
(1) MINIMUM WATER FLOW AND PRESSURE TO WATER HEATER IS 0.79 GPM AND 5.3 PSI



(1) Detail –Instantaneous Water Heater Piping NOT TO SCALE

Plumbing Legend

	W.	SOIL OR WASTE PIPING ABOVE FLOOR
	W.	SOIL OR WASTE PIPING BELOW GRADE/FLOOR
	RWL	RAINWATER LEADER PIPING
	V.	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
G	G.	GAS PIPING
CD	CD	CONDENSATE DRAIN PIPING
F	F.	FIRE PIPING
	FD, RD	FLOOR DRAIN, ROOF DRAIN
	COTG, FCO	CLEANOUT TO GRADE, FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	CO	CLEANOUT
	VTR	VENT THROUGH ROOF
	WC	WATER CLOSET
	UR	URINAL
	LAV	LAVATORY
	MSK	MOP SINK
	DF	DRINKING FOUNTAIN
	HB	HOSE BIBB
	(1)	DESIGNATION OF SHEET NOTE #1
	(E)	EXISTING
	(N)	NEW
	TYP.	TYPICAL
		GAS COCK
	G.V.	GATE VALVE
	B.V.	BALL VALVE
	CH. V.	CHECK VALVE
		STRAINER



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(415) 456-1248 fax

No.	Description	Date
7	ISSUED FOR BID	5/7/12
2	ISSUED PER PLAN CHECK COMMENTS	4/13/12

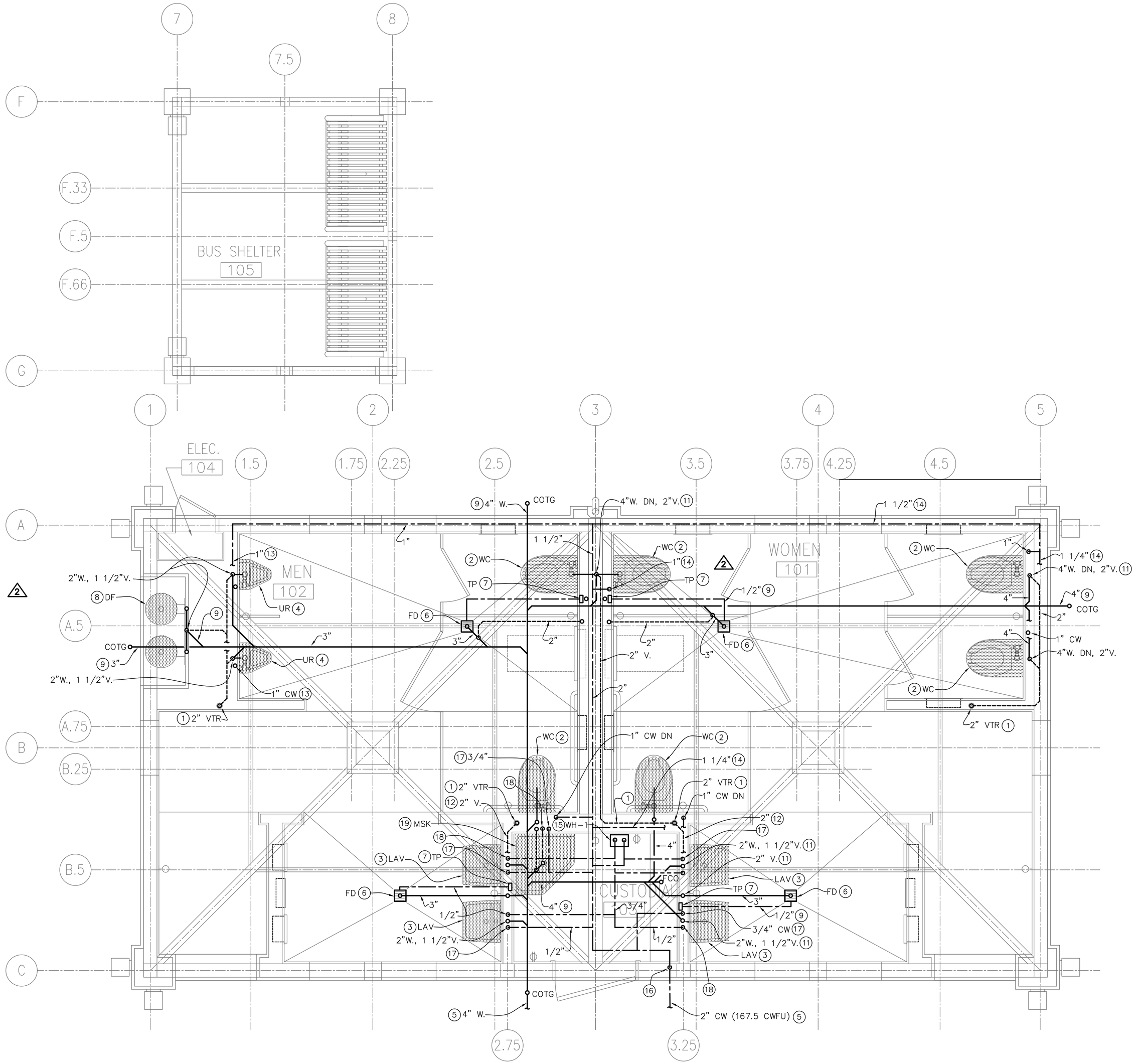
REVISIONS

DATE: 2/13/12
PROJECT NO.: 1201-300
DRAWN BY: XX

SCHEDULES
PLUMBING LEGEND

P1.1

C:\W&S



Sheet Notes

1. RUN 2" VTR. FLASH AND COUNTERFLASH VTR WATERTIGHT. SEE ARCHITECTURAL DRAWINGS FOR EXPOSED V. PIPE ABOVE W.C. STALL PARTITION, TYPICAL.
2. INSTALL WC. CONNECT 4" W., 2" V. AND 1" CW.
3. INSTALL LAV. CONNECT 2" W., 1 1/2" V., 1/2" HW AND 1/2" CW.
4. INSTALL UR. CONNECT 2" W., 1 1/2"V. AND 3/4" CW.
5. SEE CIVIL DRAWINGS FOR CONTINUATION.
6. INSTALL FD. CONNECT 3" W., 2" V. AND 1/2" CW FROM TR.
7. INSTALL TP BEHIND ACCESS PANEL IN WALL. CONNECT 1/2" CW AND RUN 1/2" CW TO EACH FD. VERIFY LOCAITON.
8. INSTALL WALL MOUNTED HI/LOW DRINKING FOUNTAIN. CONNECT 2" W., 1 1/2" V. AND 1/2" CW TO EACH SIDE.
9. INSTALL PIPING BELOW GRADE, TYPICAL.
10. AS HIGH AS POSSIBLE ABOVE THE FLOOR, TYPICAL.
11. RUN V. PIPING UP IN WALL. OFFSET CONCEALED IN WALL AS REQUIRED AND CONNECT TO VTR, TYPICAL.
12. COLLECT V. PIPING CONCEALED IN PLUMBING WALL AND RUN OVER TO VTR, TYPICAL.
13. RUN FULL SIZED CONCEALED IN WALL. CONNECT 3/4" TO EACH UR AND 1/2" TO THE DF.
14. RUN FULL SIZED CONCEALED IN WALL. CONNECT 1" CW TO EACH WC.
15. INSTALL INSTANTANEOUS WATER HEATER. CONNECT 3/4" CW AND RUN 3/4" HW TO FAUCETS. SEE DETAIL 1/P1.1.
16. INSTALL MAIN WATER SHUT OFF BALL VALVE, STRAINER AND PRV BEHIND ACCESS PANEL IN WALL.
17. RUN 3/4" CW DN IN WALL. CONNECT 1/2" TO EACH WALL PLUMBING FIXTURE.
18. RUN 1/2" HW DN IN WALL. CONNECT 1/2" HW TO FAUCET.
19. INSTALL MOP SK. CONNECT 2" W., 2" V., 1/2" HW, AND 1/2" CW.

PLUMBING FLOOR PLAN

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

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. LEFLER
Exp. 12-31-13
No. 22,208
MECHANICAL
STATE OF CALIFORNIA

LEFLER ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
(415) 456-4220
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No.	Description	Date
7	ISSUED FOR BID	5/7/12
2	ISSUED PER PLAN CHECK COMMENTS	4/13/12
1	ISSUED FOR BUILDING PERMIT	3/2/2012

REVISIONS

DATE: 2/13/12
PROJECT NO.: 1201-300
DRAWN BY: BA/PW

PLUMBING FLOOR PLAN

P2.1

C:\W&S

GENERAL NOTE(S) & SPECIFICATIONS

THE FOLLOWING NOTES AND SPECIFICATION ARE TO BE ADHERED TO, EXCEPT WHERE SUPERCEDED BY MORE STRINGENT REQUIREMENTS OF THE PLANS OR ADDITIONAL SPECIFICATIONS. IN CONJUNCTION WITH THE PLAN, DETAILS, AND SPECIFICATIONS, THESE NOTES JOINTLY FOR THE ñCONSTRUCTION DOCUMENTS.ò

GENERAL

CODE

CALIFORNIA BUILDING CODE (CBC), 2010 EDITION, INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION AND AS ADOPTED AND AMENDED BY THE LOCAL CITY, COUNTY OR OTHER JURISDICTIONAL AGENCY COLLECTIVELY REFERRED TO THE ñBUILDING CODEòSOMETIMES BY THE PARTICULAR CODE'S ACRONYM.

SPECIFICATIONS

THOUGH THESE NOTE INCLUDE SPECIFICATIONS, THEY ARE NOT INTENDED AS STAND ALONE SPECIFICATIONS FOR LARGE SCOPE PROJECTS. IN SUCH CASES, THE SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL NOTES OR ON THE DRAWINGS. WHERE REFERENCE IS MADE TO A STANDARD SPECIFICATION, THE LATEST ADOPTED REVISION SHALL BE USED.

SAFETY

THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE SAFE CONDUCT OF THE WORK, IN ORDER TO PROTECT ADJACENT PROPERTY AND TO ENSURE THE SAFETY OF ALL PERSONS WHO COME IN CONTACT WITH THE SITE. THIS INCLUDES ALL CONSTRUCTION METHODS AND PROCEDURES, AS WELL AS METHODS, DESIGNS, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES, AND FOR TEMPORARY RETAINMENT OF SOILS.

THE PROCESS OF TEMPORARY SHORING, THE RE-DISTRIBUTION OF LOADS IN EXISTING STRUCTURES, AND THE EXCAVATION OF POTENTIALLY UNSTABLE SOILS ARE ALL INHERENTLY DANGEROUS. EXTREME CARE SHOULD BE TAKEN DURING THESE PROCESSES.

THE ENGINEER'S SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF THE CONTRACTOR'S SAFETY MEASURES.

THE CONTRACTOR SHALL ADHERE TO THE SAFE PRACTICES INDICATED BY FEDERAL AND CAL-OHSA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND HOLD HARMLESS THE STRUCTURAL ENGINEER FROM ANY DAMAGES AND/OR PENALTIES RESULTING FROM HIS/HER FAILURE TO COMPLY WITH SAID LAWS, STATUTES, ORDINANCES, AND REGULATIONS.

ALTERNATIVES

NO ALTERNATE METHODS OF CONSTRUCTION OR SUBSTITUTIONS SHALL BE MADE WITHOUT THE APPROVAL OF THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER.

SIMILARITY

IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.

NON-STRUCTURAL ITEMS

THESE DOCUMENTS PERTAIN TO STRUCTURAL INFORMATION ONLY. ANY INFORMATION IN THE STRUCTURAL DRAWINGS PERTAINING TO NON-STRUCTURAL ITEMS SHOULD BE CONSIDERED INCOMPLETE AND IS INCLUDED FOR GENERAL INFORMATION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC INFORMATION ON ALL NON-STRUCTURAL ITEMS. THIS INCLUDES BUT IS NOT LIMITED TO SITE DRAINAGE, WATERPROOFING MATERIALS, AND FLASHING.

COORDINATION

COORDINATE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS AND DO NOT PROCEED WITH THE WORK UNTIL CONFLICTS ARE RESOLVED. MEASUREMENT OF DIMENSIONS SHALL NOTED BE SCALED OFF THE STRUCTURAL PLANS, UNLESS OTHERWISE NOTED ON THE PLANS.

ANY OPENINGS, HOLES, CUTS, OR DISCONTINUITIES NOT SHOWN ON THE STRUCTURAL DRAWINGS AND EXTENDING INTO OR THROUGH STRUCTURAL ELEMENTS REQUIRE THE PRIOR APPROVAL OF THE ENGINEER AND MAY REQUIRE ADDITIONAL STRUCTURAL DETAILING.

EQUIPMENT SUPPORTS

EQUIPMENT SUPPORTS ARE NOT INCLUDED IN THESE DRAWINGS. PROVIDE MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES, AND REVEALS AS REQUIRED.

DESIGN LOADS

DEAD LOADS: ACTUAL IN_PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.

LIVE LOADS (REDUCIBLE PER CBC):

ROOFS.....20 PSF

FLOORS.....50 PSF

WIND LOADS:

EXPOSURE C, BASIC WIND SPEED (3-SEC GUST).....85 MPH

WIND IMPORTANCE FACTOR IW=1.0, OCCUPANCY CATEGORY = II

GCPI = +/- 0.18 (ENCLOSED)

DESIGN WIND PRESSURE - SIMPLIFIED (MWFRS).....14 PSF

SEISMIC LOADS:

SEISMIC IMPORTANCE FACTOR I=1.0, OCCUPANCY CATEGORY= II

Ss= 1.5G, S1=0.66G

SITE CLASS = D

Sos= 1.0G, S1=0.66G

SEISMIC DESIGN CATEGORY=IV, ORDINARY STEEL MOMENT FRAMES, R=3.5

Cs= 0.286

DESIGN BASE SHEAR - SIMPLIFIED (STRENGTH LEVEL).....V = 0.286W

SUBMITTALS

ITEMS SUBMITTED FOR REVIEW SHALL HAVE THE CONTRACTOR'S APPROVAL AND DATE INDICATED ON EACH COPY. SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR. THE ENGINEER SHALL RECEIVE SUBMITTALS NO LESS THAN TEN WORKING DAYS BEFORE BEGINNING OF FABRICATION OR PLACEMENT OF ITEM. FABRICATION OR USE OF ITEMS SUBMITTED FOR REVIEW PRIOR TO WRITTEN APPROVAL FROM THE ENGINEER IS AT THE CONTRACTOR'S RISK.

STRUCTURAL SUBMITTALS FOR THIS PROJECT INCLUDE:

- EPOXY
- CONCRETE MIX DESIGN
- STRUCTURAL STEEL SHOP DRAWINGS

  SUBMIT SHOP DRAWINGS, WITH CONTRACTOR'S APPROVAL INDICATED ON EACH SHEET, FOR REVIEW PRIOR TO FABRICATION.

SPECIAL INSPECTION AND TESTING

IN ADDITION TO REQUIRED INSPECTIONS BY THE BUILDING OFFICIAL, PROVIDE SPECIAL INSPECTION AND TESTING AS INDICATED IN ACCORDANCE WITH CBC SECTION 1704 FOR THE FOLLOWING WORK:

- CONCRETE AND REINFORCEMENT.

  CAST THREE CYLINDERS FROM EACH POUR. A TESTING LABORATORY APPROVED BY THE ENGINEER SHALL TEST CYLINDERS. FROM EACH SET OF THREE CYLINDERS, ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, AND THE THIRD HELD IN RESERVE.
- WELDING

  INSTALLATION OF EPOXY DOWELS OR ADHESIVE ANCHORS INTO EXISTING CONCRETE PLACEMENT.

THE INSPECTOR SHALL NOTIFY THE ENGINEER OF ANY CONSTRUCTION THAT IS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. THIS NOTIFICATION SHALL INCLUDE A TELEPHONE CALL TO THE ENGINEER, 707-591-3031, DESCRIBING THE NATURE OF THE SITUATION (LEAVING A MESSAGE IF NECESSARY), WITH CONFIRMATION IN WRITING. THE CONTRACTOR SHALL BE IMMEDIATELY ADVISED OF ANY CONSTRUCTION THAT, IN THE INSPECTOR'S OPINION, IS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

STRUCTURAL OBSERVATION

PROVIDE FOR STRUCTURAL OBSERVATION IN ACCORDANCE WITH CBC SECTION 1709 AFTER THE INSTALLATION OF THE FOLLOWING WORK:

- CONCRETE REINFORCING - FOR FOOTINGS & SLABS
- STEEL FRAME INSTALLATION

NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TIME OF STRUCTURAL OBSERVATION. IN THE CASE WHERE A STRUCTURAL OBSERVATION IS REQUESTED BY THE CONTRACTOR BEFORE THE COMPLETION OF THE INSTALLATION OF A WORK ITEM LISTED ABOVE, A SECOND STRUCTURAL OBSERVATION WILL BE REQUIRED. REPEAT STRUCTURAL OBSERVATIONS, REQUIRED DUE TO LACK OF COMPLETION, WILL PAID BY THE CONTRACTOR THROUGH REIMBURSEMENT TO THE OWNER.

STRUCTURAL OBSERVATION SHALL BE REQUIRED BY THE ENGINEER FOR STRUCTURAL CONFORMANCE TO THE APPROVED PLANS.

FOUNDATION

FOUNDATION DESIGN VALUES

SPREAD FOOTINGS:

MAXIMUM SOIL BEARING PRESSURES:

DEAD LOAD + LIVE LOAD.....2000 PSF

SUPERVISION AND ACCEPTANCE

FOUNDATION DESIGN IS BASED ON INFORMATION PROVIDED IN A GEOTECHNICAL REPORT BY ROCKRIDGE GEOTECHNICAL, DATED 2/24/12 (JOB NUMBER 12-394). THE GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW FROM THE OWNER OR THE OFFICE OF THE ARCHITECT. THE CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH ALL ASPECTS OF THE SOILS REPORT THAT PERTAIN TO INSTALLATION OF THE FOUNDATION. THE REQUIREMENTS OF THE GEOTECHNICAL REPORT ARE CONSIDERED TO BE PART OF THE CONSTRUCTION DOCUMENTS. GEOTECHNICAL REQUIREMENTS FOR THE PROJECT INCLUDE THE FOLLOWING ITEMS:

- SUBGRADE PREP & FILL PLACEMENT
- COMPACTION OF SUB-BASE
- MOISTURE CONDITIONING OF SUB-BASE

INFORM THE GEOTECHNICAL ENGINEER OF IMPENDING WORK A MINIMUM OF 72 HOURS PRIOR TO BEGINNING SITE GRADING OR EXCAVATION. OBTAIN THE APPROVAL OF THE GEOTECHNICAL ENGINEER OF ALL FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. ALL DETERMINATION OF THE ACCEPTABILITY OF THE SOIL CONDITIONS SHALL BE BY THE GEOTECHNICAL ENGINEER.

FOOTINGS

BASE FOOTINGS ON APPROVED FIRM, COMPACTED, INORGANIC SOIL. EXTEND FOOTINGS 1'_0" MINIMUM INTO THE SOIL.

REINFORCING STEEL

MATERIALS

REINFORCING BARS: ASTM A615/A615M. GRADE 40 (GRADE 300) MINIMUM FOR BARS #4 (#13) AND SMALLER, GRADE 60 (GRADE 420) FOR BARS # 5 (#16) AND LARGER.

INSTALLATION

BENDS AND LAP SPLICES

BEND BARS AT ALL CORNERS AND INTERSECTIONS TO PROVIDE A STANDARD 90-DEGREE HOOK MINIMUM, UNLESS OTHERWISE NOTED. LAP BARS AT ALL SPLICES A MINIMUM OF 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED.

BEND ALL BARS IN ACCORDANCE WITH CODES AND DETAILS FOR TYPICAL HOOKS AND BENDS FOR CONCRETE REINFORCEMENT. BARS BENT AT A RADIUS OTHER THAN THAT INDICATED IN THE CODE WILL BE REJECTED BY THE ENGINEER.

CONCRETE

GENERAL

ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGSò (ACI 301), EXCEPT AS MODIFIED BELOW.

MATERIALS

CAST_IN_PLACE CONCRETE

MINIMUM COMPRESSIVE STRENGTH, F'C, AT 28 DAYS..... 3,000 PSI

(SPECIAL INSPECTION IS REQUIRED)

CEMENT.....TYPE II PORTLAND CEMENT

MAXIMUM WATER/CEMENT RATIO - SLABS ON GRADE.....0.45

MAXIMUM WATER/CEMENT RATIO - OTHERWISE.....0.55

MAXIMUM AGGREGATE SIZE..... 3/4"

USE NO CALCIUM CHLORIDE IN ANY CONCRETE.

ALL CONCRETE SHALL BE TRANSIT MIXED.

ANCHORS AND DOWELS TO EXISTING CONCRETE

WHERE INDICATED ON THESE CONSTRUCTION DOCUMENTS, USE THE FOLLOWING SYSTEMS FOR ANCHORAGE INTO EXISTING CONCRETE. FOR SUBSTITUTIONS, SUBMIT WRITTEN DOCUMENTATION AND OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.

ADHESIVE ANCHORS AND DOWELS:

"POWER-FAST©EPOXY INJECTION GEL BY POWERS FASTENING, INC. (RAWL) INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT #4514.

"SET EPOXY-TIE" ADHESIVE SYSTEM BY SIMPSON STRONG-TIE COMPANY, INC, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT #5279.

EXPANSION ANCHORS:

ñPOWER-BOLT©OR ñPOWER-STUD" MECHANICAL ANCHORS BY POWERS FASTENING, INC. (RAWL), INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT #5225.

ñWEDGE-ALL©MECHANICAL ANCHOR BY SIMPSON STRONG-TIE COMPANY, INC, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT #3631.

POWDER_ACTUATED FASTENERS:

0.1450DIAMETER DX FASTENERS AS MANUFACTURED BY HILTI, INC., INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT #2388. USE X-CR FASTENERS WHERE EXPOSED TO WEATHER, X-ZF OTHERWISE.

SLABS ON GRADE

MINIMUM THICKNESS:.....5"

MINIMUM REINFORCEMENT.....#4 @ 16", EACH WAY, CENTERED IN SLAB

SUB-BASE:

PROVIDE A VAPOR RETARDER UNDER ALL INTERIOR SLABS. THE VAPOR RETARDER SHALL BE 15 MIL ñSTEGO WRAP© (WWW.STEGOINDUSTRIES.COM) OR ANOTHER ASTM E 1745 CLASS A PRODUCT APPROVED BY THE ENGINEER. LAP AND TAPE ALL JOINTS AND TAPE ALL RIPS AND HOLES. USE A TAPE RECOMMENDED BY THE VAPOR RETARDER MANUFACTURER.

PLACE 4" MINIMUM OF CLEAN, FREE_DRAINING CRUSHED ROCK (3/4" TO 1/4ò) BELOW THE VAPOR RETARDER.

PROVIDE A VAPOR RETARDER UNDER ALL INTERIOR SLABS. THE VAPOR RETARDER SHALL BE 10-MIL POLYETHYLENE OR ANOTHER PRODUCT APPROVED BY THE ENGINEER. LAP AND TAPE ALL JOINTS AND TAPE ALL RIPS AND HOLES. USE A WATERPROOF TAPE COMPATIBLE WITH THE VAPOR RETARDER.

PLACE 4" MINIMUM OF CLEAN, FREE_DRAINING CRUSHED ROCK (3/4" TO 1/4ò) BELOW THE VAPOR RETARDER.

CONTROL JOINTS:

PROVIDE CONTRACTION CONTROL JOINTS WHERE INDICATED. CUT EVERY OTHER BAR PASSING ACROSS A CONTROL JOINT. TOOL OR SAW-CUT CONTROL JOINTS AS SOON AS POSSIBLE AFTER CONCRETE HAS ACHIEVED ENOUGH STRENGTH TO AVOID RAVELING, OR INSTALL A JOINT STRIP SUCH AS W.R. MEADOWS SEAL TIGHT SPEED-E-JOINT. DEPTH OF CUT OR PLASTIC STRIP IS 1/3 THE DEPTH OF THE SLAB. CONFIRM LOCATIONS OF ALL CONTROL JOINTS WITH THE ARCHITECT PRIOR TO CONCRETE PLACEMENT.

CURING

CONCRETE SURFACES EXPOSED TO THE ATMOSPHERE WITHIN 7 DAYS OF PLACEMENT SHALL BE PROTECTED FROM MOISTURE LOSS WITH A LIQUID MEMBRANE-FORMING CURING COMPOUND MEETING THE REQUIREMENTS OF ASTM C309. APPLY COMPOUND IMMEDIATELY AFTER FINISHING. APPLY TWO COATS AT RIGHT ANGLES, USING THE APPLICATION RATED RECOMMENDED BY THE MANUFACTURER. THE COMPOUND USED SHALL BE COMPATIBLE WITH THE PLANNED FINISH MATERIALS.

STRUCTURAL STEEL

MATERIALS

STEEL TUBING:..... ASTM A500, GRADE B, FY = 46 KSI

OTHER STRUCTURAL STEEL:..... ASTM A36, FY = 36 KSI

BOLTS: .....ASTM A307

ANCHOR RODS:.....ASTM F1554, GRADE 36

STEEL ROOFING

TYPE AND CAPACITY PER DRAWINGS, GALVANIZED, AS MANUFACTURED BY CENTRIA CO, OR APPROVED PRODUCT BY OTHER MANUFACTURER HAVING EQUAL OR BETTER VERTICAL LOAD CAPACITY, SHEAR VALUES, FLEXIBILITY FACTOR, FIRE RATING, ETC.

COLD FORMED METAL FRAMING

MATERIALS

STUDS AND TRACKS

18 GAGE (43 MILS) ASTM A 653, G90 GALVANIZED OR PAINTED WITH ZINC-RICH PROTECTIVE PRIMER.

STUDS SHALL BE CHANNEL SHAPED, WITH 1-5/8òWIDE LIPPED FLANGES AND PUNCHED OR SOLID WEBS. TRACKS SHALL BE DEEP LEG TRACKS OF THE SAME THICKNESS AS THE STUDS, UNLESS OTHERWISE NOTED.

MEMBER DESIGNATIONS ARE PER THE STEEL STUD MANUFACTURER'S ASSOCIATION.

FASTENERS

ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

SCREWS: SELF-DRILLING, SELF-TAPPING SCREWS, SIZE AS INDICATED, PAN HEAD OR HEX HEAD.

MACHINE BOLTS: ASTM A36

POWDER ACTUATED FASTENERS: HILTI X-GN FASTENERS, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC REPORT ER-6196.

FRAMING ACCESSORIES

FRAMING ACCESSORIES SHALL BE AS PROVIDED BY THE STEEL NETWORK, INC. (WWW.STEELNETWORK.COM).

INSTALLATION

GENERAL

INSTALL FRAMING PLUMB, SQUARE, AND TRUE TO LINE. INSTALL ALL STUDS AND OTHER CHANNEL SHAPED MEMBERS IN SINGLE PIECE LENGTHS. SECURELY FASTEN AS INDICATED.

MULTIPLE STUDS SHALL BE WELDED TOGETHER WITH 1òLONG WELDS AT ENDS AND @ 18òMAXIMUM.

PROVIDE FIELD TOUCH-UP OF WELDED OR DAMAGED SURFACES AFTER INSTALLATION WITH ZINC-RICH PRIMER PAINT OR A GALVANIZING REPAIR COMPOUND.

BRIDGING

INSTALL CONTINUOUS BRIDGING BETWEEN STUDS AT 5'-0òMAXIMUM.

WELDING

PER AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEELò(ANSI/AWS D1.1) AND ñSTRUCTURAL WELDING CODE - SHEET STEELò (ANSI/AWS D1.3).

WELDERS SHALL BE APPROPRIATELY CERTIFIED QUALIFIED.

ABBREVIATIONS AND SYMBOLS

AB	ANCHOR BOLT
APB	ANTHONY POWERS BEAM
APPROX	APPROXIMATE
ALT	ALTERNATE
ARCH	ARCHITECT
ATR	ALL-THREAD ROD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BTWN	BETWEEN
BOT	BOTTOM
CB	CARRIAGE BOLT
CBC	CALIFORNIA BUILDING CODE
CBR	COUNTERBORE
CC	CENTER-TO-CENTER
CJ	CONSTRUCTION JOINT
	CONTROL JOINT
	CEILING JOIST
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
CN	COUPLING NUT
CSK	COUNTERSINK
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CV	CALIFORNIA VALLEY
d	PENNY (NAIL SIZE)
DIA	DIAMETER
DIMS	DIMENSIONS
DBL	DOUBLE
DET	DETAIL
DF	DOUGLAS FIR
DO	DITTO
DTP	DOUBLE TOP PLATE
DWG	DRAWING
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EN	END NAIL
ENGR	ENGINEER
EO	EVERY OTHER
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXT	EXTERIOR
FB	FLOOR BEAM
FDN	FOUNDATION
FH	FLAT HEAD
FIN	FINISH
FJ	FLOOR JOIST
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GI	GALVANIZED IRON
GLT	GLUE-LAMINATED TIMBER
GSM	GALVANIZED SHEET METAL
GSN	GENERAL STRUCTURAL NOTES
GYP BD	GYPSUM WALL BOARD
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HF	HARDY FRAME
HGR	HANGER
HORZ	HORIZONTAL
HSB	HIGH STRENGTH BOLTS
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
JH	JOIST HANGER
JST	JOIST
L	ANGLE SECTION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONGIT	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
M	MANUFACTURED SHEAR PANEL
MANUF	MANUFACTURER
MAX	MAXIMUM
MB	MACHINE BOLT
MI	MALLEABLE IRON
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
O/	OVER
oc	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENERS
PEN	PENETRATION
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLATE
PN	PLATE NAIL
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
PWD	PLYWOOD
RDWD	REDWOOD
REINF	REINFORCEMENT
REQD	REQUIRED
RET	RETAINING
RO	ROUGH OPENING
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SSOG	STRUCTURAL SLAB ON GRADE
SOG	SLAB ON GRADE
SP	SPACES
SQ	SQUARE
SS	SELECT STRUCTURAL
	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STIFF	STIFFENER
SW	SHEAR WALL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
TD	TIE DOWN
T&G	TONGUE AND GROOVE
THRD	THREADED
TN	TOE NAIL
TOS	TOP OF SLAB
	TOP OF STEEL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VERT	VERTICAL
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
W	WIDE FLANGE SECTION
w/	WITH
WP	WORK POINT
WPM	WATER PROOF MEMBRANE
WS	WOOD SCREW
WSP	WOOD STRUCTURAL PANEL
WWR	WELDED WIRE REINFORCEMENT
#	NUMBER
@	AT (SPACING)

SAUSALITO PUBLIC RESTROOMS

APN # 065-073-02

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No.	Description	Date
7	ISSUED FOR BID	5/7/2012
6	REVISIONS	5/7/2012
3	REVISIONS	4/13/2012
2	ISSUED PER PLAN CHECK	4/13/2012
1	ISSUED FOR BUILDING PERMIT	3/2/2012

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
SUNDEEP S. JHUTTI
S 5238
Exp. 06/30/13
STATE OF CALIFORNIA

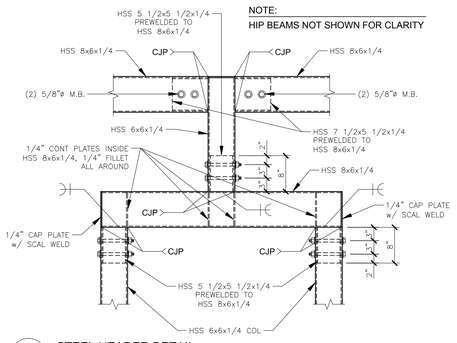
DATE: 02/10/12

PROJECT NO.: 1201-300

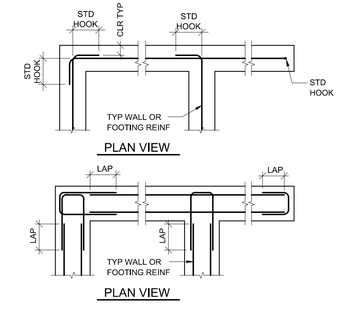
DRAWN BY: WES

STRUCTURAL NOTES

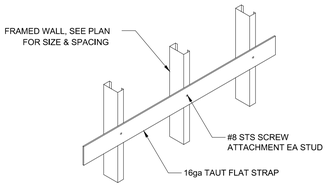
S 0.1



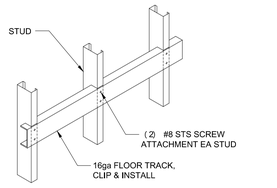
15 STEEL HEADER DETAIL



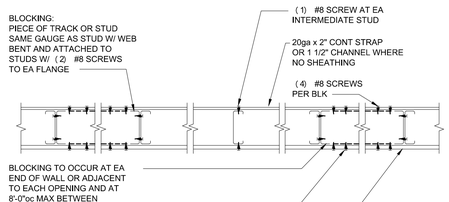
14 TYP CORNER, INTERSECTION & END REINF.



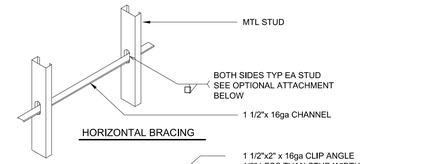
8 BACKING FOR LOADS < 100#S



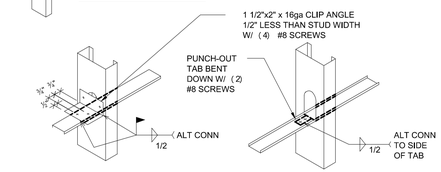
9 BACKING FOR LOADS > 200#S



OPTION 2



HORIZONTAL BRACING

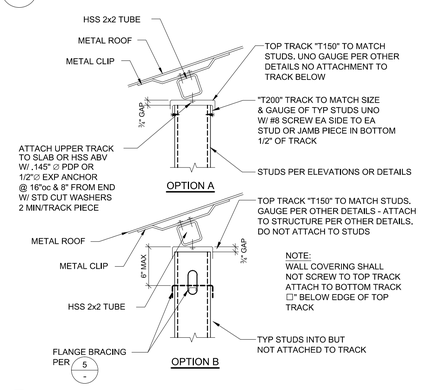


OPTIONAL ATTACHMENT 1 OPTIONAL ATTACHMENT 2

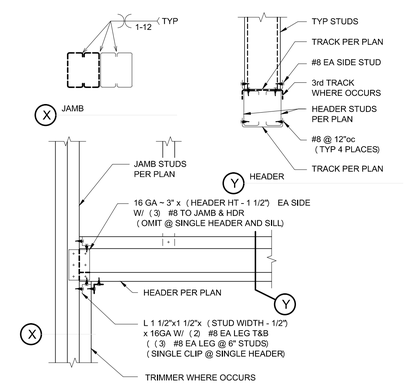
OPTION 1

NOTES:
1. BRIDGING MAY BE PER OPTION 1 OR 2.
2. PROVIDE BRIDGING @ 4'-0"oc.
3. BRIDGING IS NOT REQUIRED WHERE PROPERLY ATTACHED SHEATHING OCCURS ON BOTH SIDES OF STUDS.

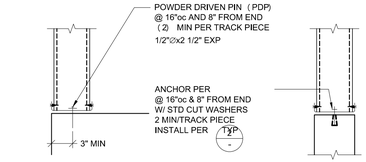
5 WALL BRIDGING



6 NON-BEARING WALL AT TOP

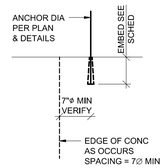


7



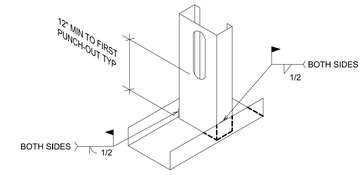
1 EXTERIOR WALL

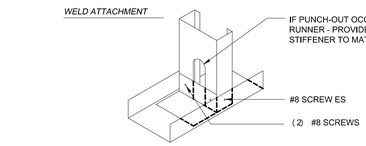
EXPANSION ANCHORS IN 2500 psi MIN CONCRETE			
ANCHOR DIAMETER	MINIMUM EMBEDMENT	ALLOWABLE LOADS# SHEAR	TENSION
1/2"∅	2 1/2"	860	417



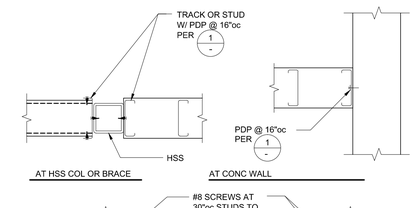
NOTES:
1. Install drilled expansion anchors per manufacturer's and ICC Report instructions.
2. When installing drilled-in anchors in existing reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. Maintain a minimum clearance of 1" between reinforcement and the drilled-in anchor.
3. Acceptable expansion anchors for above values are: Simpson Wedge-All, ICC No. ESR-1396 (12-1-04) ; ITW RamsetTrubolt Wedge Anchor, ICC No. 1372 (3-1-00) ; Hilti Quik Bolt 3, ICC No. ESR-1385 (9-1-04) ; based on a minimum of 2,500 PSI concrete.
4. Values for shear and tension shown are full maximum values based on 14 diameters edge distance each way and 12 diameters spacing each way minimum. See standard calculation for interpolation of values down for a minimum edge distance and spacing of 7 diameters.

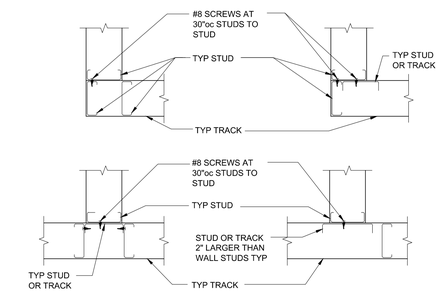
2 UNINSPECTED EXPANSION ANCHOR IN CONCRETE (ICC)



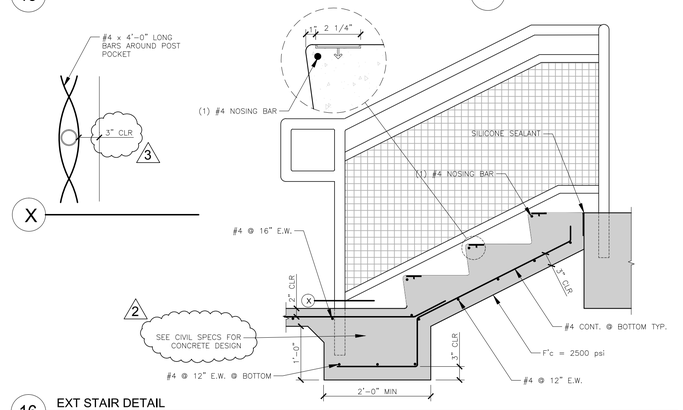


3 STUD OR JOIST TO TRACK

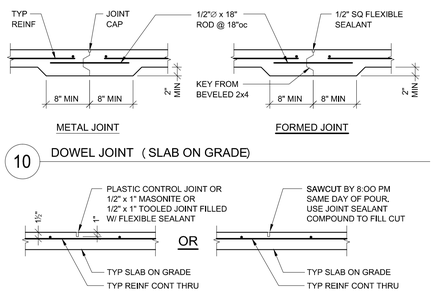




4 TYPICAL CORNERS & INTERSECTIONS



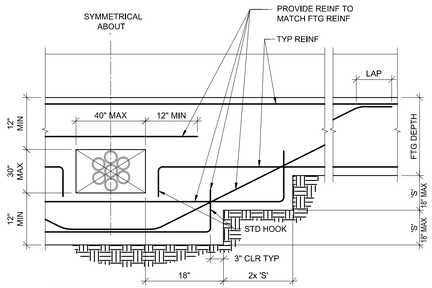
16 EXT STAIR DETAIL



METAL JOINT FORMED JOINT

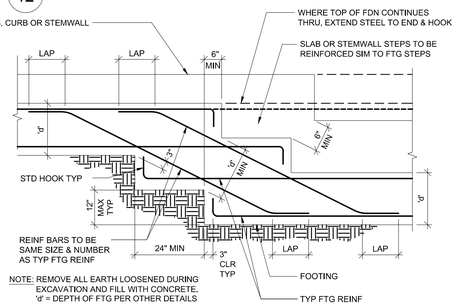
10 DOWEL JOINT (SLAB ON GRADE)

11 CONTROL JOINT (SLAB ON GRADE)



NOTES:
1. DO NOT LOCATE BLOCKOUT WITHIN 4'-0" OF SW HOLDOWN, IN FRAME FOUNDATIONS OR COLUMN PAD FOOTINGS.
2. MINIMUM DISTANCE BETWEEN BLOCKOUTS OR OTHER PIPES TO BE 2'-6".

12 FOUNDATION BLOCKOUT

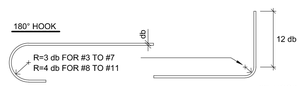


NOTE: REMOVE ALL EARTH LOOSENED DURING EXCAVATION AND FILL WITH CONCRETE. 'd' = DEPTH OF FTG PER OTHER DETAILS

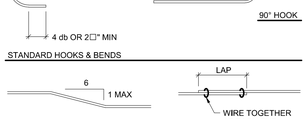
13 STEPPED FOOTING

MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 2500 PSI OR GREATER - (STAGGER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	18"	#6	36"	#9	94"
#4	24"	#7	60"	#10	112"
#5	30"	#8	76"	#11	132"

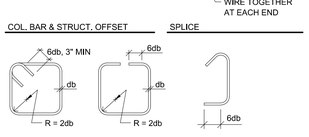
(CLASS B TOP BAR)
MINIMUM BAR SPACING GREATER OF 4x BAR DIAMETER & 4" MIN.



STANDARD HOOKS & BENDS



COL. BAR & STRUCT. OFFSET SPLICE



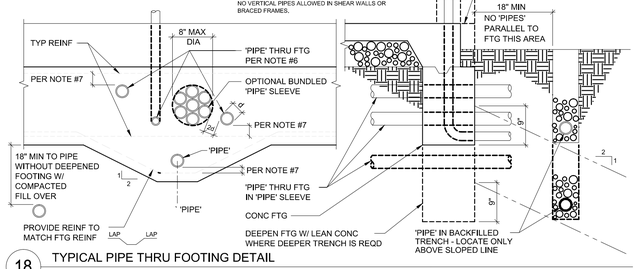
135° STIRRUP TIES #3, #4, #5 90° STIRRUP CROSS TIE

CONCRETE COVER FOR REINFORCING STEEL	'CLR'
CAST AGAINST EARTH OR GRADE	3"
EXPOSED TO EARTH (FORMED) OR WEATHER	
#5 & SMALLER	1 1/2"
#6 & LARGER	2"
NOT EXPOSED TO EARTH OR WEATHER	
#5 & SMALLER	1"
#6 & LARGER, & ALL BM STIRRUPS, COL TIES, & SPIRALS	1 1/2"

ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN A STANDARD 90° or 180° HOOK UNLESS DETAILED OTHERWISE

17 TYPICAL REINFORCING DETAILS (f'c = 2500 psi MIN)

NOTES:
1. 'PIPE' = ANY PENETRATION THRU OR EMBEDED IN FOUNDATION STRUCTURE.
2. 'PIPE' EMBEDDED IN CONC TO BE PROVIDED WITH FLEXIBLE COUPLINGS AT ENTRY/EXIT POINTS.
3. SLEEVES SHALL BE PVC, I.D. TO BE 3" LARGER THAN PIPE O.D.
4. NO 'PIPE' TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
5. PVC CONDUIT ('PIPE') EMBEDED IN CURB/STEM MAY BE WIRE TIED TO HORIZ REINF.
6. ALL PIPES THROUGH FOOTINGS TO BE WRAPPED OR SLEEVED, VOID FILLED WITH EPS.
7. WRAPPED 'PIPES' SHALL HAVE 1□" CLEAR FROM WRAPPING TO REINFORCING. SLEEVED PIPES SHALL HAVE 1 1/2" MINIMUM CLEAR TO REINFORCING. WRAP W/ 1/2" FOAM SHEET, 3 LAYERS MIN. MINIMUM CONCRETE COVER TO BE 1".
8. CLEARANCE BETWEEN 'PIPES' TO BE 3" MIN TYP. WITH A MAXIMUM OF (8) PIPES PER 48" GROUPS OF PIPES MAY BE BUNDLED AS SHOWN.
9. NO HORIZONTAL PIPES ALLOWED WITHIN 2'-0" EACH SIDE OF HOLD-DOWNS OR HSS FRAMED COLUMNS, NO VERTICAL PIPES ALLOWED IN SHEAR WALLS OR BRACED FRAMES.



18 TYPICAL PIPE THRU FOOTING DETAIL

SAUSALITO PUBLIC RESTROOMS

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No.	Description	Date
7	ISSUED FOR BID	5/7/2012
6	REVISIONS	5/7/2012
3	REVISIONS	4/13/2012
2	ISSUED PER PLAN CHECK	4/13/2012
1	ISSUED FOR BUILDING PERMIT	3/2/2012

REVISIONS

REGISTERED PROFESSIONAL ENGINEER SUNDEEP S. JHUTTI S 5238 Exp. 06/30/13 STATE OF CALIFORNIA

DATE: 02/10/12
PROJECT NO.: 1201-300
DRAWN BY: WES

STRUCTURAL MISC. DETAILS

S 0.2