



CITY OF SAUSALITO

GLEN COURT SEWER REPLACEMENT PROJECT

MARIN COUNTY, CALIFORNIA

SUBMITTAL
NOVEMBER 2015

SHEET INDEX

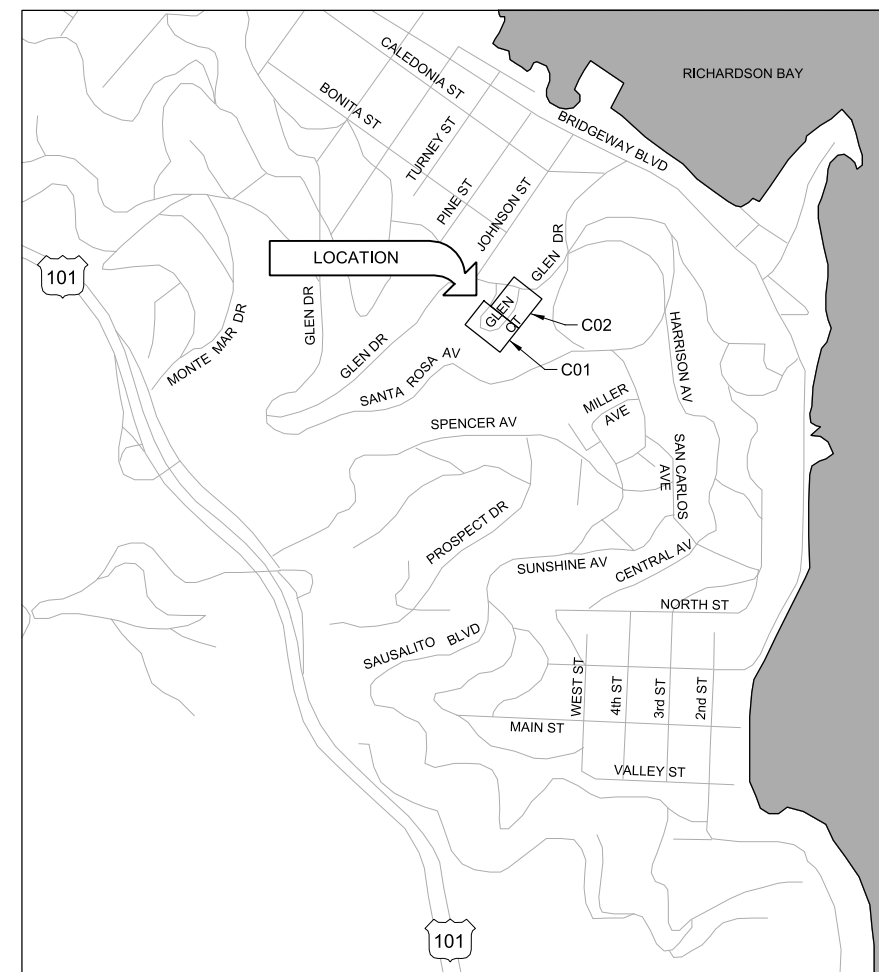
SHEET NO.	DWG NO.	DESCRIPTION
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2	G02	GENERAL NOTES AND LEGEND
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4	C02	PLAN AND PROFILE STA 11+00 TO 13+26.10
5	C03	DETAILS 1
6	C04	DETAILS 2



LOCATION MAP

APPROVED: _____
JONATHAN GOLDMAN, DIRECTOR OF PUBLIC WORKS R.C.E. 42165

APPROVED: _____
ANDREW DAVIDSON, SENIOR CIVIL ENGINEER, R.C.E. 48210



VICINITY MAP

JOB NO. 9852A.10
DRAWING NO. G01
SHEET NO. 1 OF 6

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 Model: Layout1
 ColorTable: gshade.ctb
 DesignScript: Carollo_Std_Pen_v0905 - Civil2.dgn
 PlotScale: 2:1
 LAST SAVED BY: bhaves

ABBREVIATIONS	
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE, ASBESTOS CEMENT AVENUE
AVE	BUILDING
BLDG	BOULEVARD
BLVD	CLOSED CIRCUIT TELEVISION
CCTV	CAST IRON PIPE
CL	CLASS
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT, COMPANY
CONC	CONCRETE
DI	DRAINAGE INLET
DIP	DUCTILE IRON PIPE
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC
EOP	EDGE OF PAVEMENT
EX, EXIST	EXISTING
FL	FLOW LINE
FH	FIRE HYDRANT
FPVC	FUSIBLE POLY VINYL CHLORIDE PIPE
FT	FOOT, FEET
G	GAS
G-MTR	GAS METER
GRND	GROUND
GRT	GRATE
GV	GAS VALVE
H.C. RAMP	HANDICAP RAMP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT
IRR	IRRIGATION
JP	JOINT POLE
LS	LANDSCAPE
MH	MANHOLE
MIN	MINIMUM
NG	NATURAL GAS
NO.	NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PG&E	PACIFIC GAS & ELECTRIC
PVC	POLY VINYL CHLORIDE PIPE
RC	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SPEC	SPECIFICATION
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEAN OUT
SSMH	SANITARY SEWER MANHOLE
ST	STREET
ST STL	STAINLESS STEEL
STA	STATION
SYC	SYCAMORE TREE
TIC	TOP OF CURB
TEL	TELEPHONE
T/W	TOP OF WALL
TYP	TYPICAL
UGT	UNDERGROUND TELEPHONE
VAR	VARIOUS
VCP	VITRIFIED CLAY PIPE
W	WEST, WATER, WIRE
WD	WOOD
WM	WATER METER
WV	WATER VALVE
X-DRN	CROSS DRAIN

LEGEND	
	EXISTING OVERHEAD ELEC/CABLE
	EXISTING UNDERGROUND CABLE
	EXISTING UNDERGROUND ELEC
	EXISTING UNDERGROUND GAS
	EXISTING STORM DRAIN W/CATCH BASIN & MANHOLE
	EXISTING SEWER W/MANHOLE
	EXISTING UNDERGROUND TELEPHONE
	EXISTING TRAFFIC SIGNAL
	EXISTING WATER W/VALVE, METER
	NEW SEWER W/MANHOLE
	PROPERTY LINE
	EXISTING DRIVEWAY
	LIGHT POLE
	UTILITY LOCATION POTHOLE
	UTILITY POLE
	GAS METER
	WATER METER
	STORMWATER DRAIN
	CLEAN OUT
	STREET SIGN
	FIRE HYDRANT
	NEW LATERAL AND CLEANOUT
	REMOVE EXIST PIPE
	EDGE OF PAVEMENT
	WALL (SIZE AND TYPE)
	BUILDING WALL
	HEDGE
	TREES (SIZE AND TYPE)
	MANHOLE
	CATCH BASIN (SIZE AS SHOWN)
	SPOT ELEVATION
	SURVEY CONTROL POINT
	STRESS RELIEF PIT

GENERAL NOTES																										
1.	THE LOCATIONS OF THE BUILDING SEWERS (LATERALS) ARE APPROXIMATE AND ARE BASED ON CCTV PROVIDED BY THE CITY WHEN AVAILABLE. EXACT LOCATION OF LATERALS MAY VARY. ANY LATERALS DAMAGED DURING CONSTRUCTION MUST BE REPLACED AS PER DETAILS.																									
2.	CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-227-2600 AT LEAST 48 HOURS BEFORE DIGGING.																									
3.	THE FOLLOWING UTILITIES OR AGENCIES MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK:																									
	<table border="1"> <thead> <tr> <th>MUNICIPALITY/COMPANY</th> <th>CONTACT</th> <th>PHONE</th> </tr> </thead> <tbody> <tr> <td>SAUSALITO MARIN CITY SANITARY DISTRICT</td> <td>KEVIN RAHMAN</td> <td>(415) 332-0244</td> </tr> <tr> <td>PG&E GAS</td> <td>CHRIS CHAN</td> <td>(415) 257-3384</td> </tr> <tr> <td>PG&E ELECTRIC</td> <td>CHRIS CHAN</td> <td>(415) 257-3384</td> </tr> <tr> <td>COMCAST CABLE</td> <td>BLAKE BRUHN</td> <td>(925) 424-0329</td> </tr> <tr> <td>SAUSALITO CITY FIRE DEPARTMENT</td> <td></td> <td>(415) 289-4155</td> </tr> <tr> <td>MARIN MUNICIPAL WATER DISTRICT</td> <td>ELYSHA ANDERSON</td> <td>(415) 945-1572</td> </tr> <tr> <td>AT&T</td> <td>MICHAEL MCAFFEE</td> <td>(415) 499-4900</td> </tr> </tbody> </table>	MUNICIPALITY/COMPANY	CONTACT	PHONE	SAUSALITO MARIN CITY SANITARY DISTRICT	KEVIN RAHMAN	(415) 332-0244	PG&E GAS	CHRIS CHAN	(415) 257-3384	PG&E ELECTRIC	CHRIS CHAN	(415) 257-3384	COMCAST CABLE	BLAKE BRUHN	(925) 424-0329	SAUSALITO CITY FIRE DEPARTMENT		(415) 289-4155	MARIN MUNICIPAL WATER DISTRICT	ELYSHA ANDERSON	(415) 945-1572	AT&T	MICHAEL MCAFFEE	(415) 499-4900	
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4.	CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM CITY OF SAUSALITO AT NO COST TO THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ENCROACHMENT PERMIT REQUIREMENTS, SEE SPECIFICATIONS - APPENDIX FOR STANDARD CONDITIONS.																									
5.	CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT MEETS THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND SUBMIT IT TO THE CITY FOR APPROVAL. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED WITH ENCROACHMENT PERMIT APPLICATION.																									
6.	ALL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA AT THE CONTRACTOR'S EXPENSE.																									
7.	ALL UTILITIES SHOWN ON THESE PLANS WERE SCALED FROM THE UTILITY MAPS RECEIVED FROM THE UTILITY COMPANIES. THEY ARE NOT NECESSARILY COMPLETE AND ARE BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THESE PLANS WERE PRODUCED. THE ACTUAL LOCATIONS OF THE UTILITIES SHOWN ON THESE PLANS SHALL BE VERIFIED IN THE FIELD. SUCH VERIFICATION IS PART OF THE WORK.																									
8.	LOCATIONS OF EXISTING UTILITIES SHALL BE MARKED IN THE FIELD BY USA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL POTHOLE TO ESTABLISH THE EXISTING ELEVATIONS OF THE VARIOUS UTILITIES. POTHOLING OR OTHER EXCAVATIONS FOR UTILITY LOCATING ARE PART OF THE WORK AND SHALL BE AT NO ADDITIONAL COST TO THE CITY. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS.																									
9.	CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO RESIDENTS AT LEAST 48 HOURS BEFORE SEWER LATERALS ARE DISCONNECTED. WRITTEN NOTIFICATION SHALL INCLUDE A POINT OF CONTACT, DATES AND DURATION OF WORK, LANE CLOSURES AND PARKING RESTRICTIONS.																									
10.	IF RESIDENT'S DRIVEWAY, WALL, LANDSCAPING OR OTHER STRUCTURE IS DAMAGED BY CONTRACTOR DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR OR REPLACE IN KIND. RESTORATION OF DAMAGED PROPERTY SHALL BE AT THE CONTRACTOR'S EXPENSE.																									
11.	ALL EXISTING SEWER MAIN MATERIAL IS VCP UNLESS OTHERWISE NOTED.																									

SURVEYOR'S NOTES	
1.	THE COORDINATE SYSTEM IS BASED ON A RTK GPS ESTABLISHED CONTROL NETWORK ON SITE. USING NAD83 CCS ZONE 3 COORDINATES (EPOCH 2010.00). BASELINE CONTROL POINTS ESTABLISHED ON-SITE ARE LCC CP #101 (N 2140035.54, E 5988395.78 - GPS COORDINATE HELD HERE), A FOUND NL & SHNR IN ASPHALT ON GLEN CT. (AT THE BEND), LCC CP #103 (N 2140312.43, E 5988574.25), A FOUND NL & SHNR IN ASPHALT AT THE INTERSECTION OF GLEN CT. AND GLEN DR.. DISTANCES AND COORDINATES AS SHOWN ON THIS SURVEY SHOULD BE CONSIDERED AS GROUND DISTANCES AND COORDINATES.
2.	ELEVATIONS ARE BASED NAVD88, PER RTK GPS SURVEY ESTABLISHED CONTROL POINTS. SITE BENCHMARK WAS HELD AT LCC CP #101 (SEE ABOVE FOR DESCRIPTION), ELEVATION HELD AS 180.32 FEET, (NAVD88).
3.	UTILITIES SHOWN ARE BASED UPON SURFACE OBSERVATIONS OF STRUCTURES AND USA MARKINGS FOUND IN FIELD. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR LOCATIONS, CAPACITIES OR FUNCTIONALITY OF ALL UTILITIES SHOWN HEREON. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN.

SECTION & DETAIL DESIGNATIONS	
SECTION CUT ON DWG 21	SECTION NUMBER DRAWING WHERE SECTION APPEARS
ON DWG 23 THIS SECTION IS IDENTIFIED AS:	SECTION NUMBER DRAWING FROM WHICH SECTION WAS TAKEN
DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER, EXCEPT THAT DETAILS ARE IDENTIFIED BY LETTER RATHER THAN NUMBER SECTIONS OR DETAILS REFERENCED ON MULTIPLE DRAWINGS USE "TYP" IN LIEU OF A DRAWING REFERENCE	

PIPING DESIGNATIONS	
 NEW PIPING PIPE SIZE PIPING SYSTEM ABBREVIATION	PIPING SYSTEM ABBREVIATION W WATER PIPE SS SANITARY SEWER SD STORM DRAIN G GAS
 EXISTING PIPING PIPE SIZE	

POTHOLE TABLE									
PH #	STREET	CUT SIZE	ASPH	CONC.	SOIL	UTILITY	MATERIAL	DEPTH	LOCATION REFERENCE
2	GLEN CT AND GLEN CT	1' x 1'	3"	5"	HARD CLAY, ROCKS	6" SANITARY SEWER	CAST IRON	45"	101" NORTH FROM EDGE OF BRICKS, 35" EAST FROM EDGE OF SANITARY SEWER MANHOLE. WENT BOTH DIRECTIONS TO CHECK SOIL CONDITIONS AND FOUND SAME HARD ROCKY CLAY.
						1" GAS	PLASTIC	33"	
1	GLEN CT & ROSE CT	1' x 1'	5"		ROAD BASE, SAND, ROCKS	6" WATER	WHITE PLASTIC COATED STEEL	26"	84" NORTH FROM FACE OF CURB, 18" WEST FROM WATER VALVE. DISTANCE BETWEEN 6" SANITARY SEWER AND 6" WATER IS 44".
3	21 GLEN CT	1' x 1'	6"		ROAD BASE, SAND, ROCKS	6" WATER	WHITE PLASTIC COATED STEEL	26"	74" SOUTH FROM BRICK WALL, 149" EAST FROM WATER BOX. DISTANCE BETWEEN WATER AND SANITARY SEWER IS 45".
3						6" SANITARY SEWER	CONCRETE	65"	
4	GLEN DR	1' x 1'	4"	6"	ROAD BASE, SAND, ROOTS, DEBRIS	2" UNKNOWN	STEEL	19"	60" WEST FROM EDGE OF SANITARY SEWER MANHOLE, 240" NORTH FROM WATER BOX. TOO MANY ROOTS AND DEBRIS. FOUND BIG VOID UNDER THE STREET BETWEEN GAS AND SANITARY SEWER.
4						4" GAS	PLASTIC	33"	
4						6" SANITARY SEWER	CLAY	63"	

DESIGNED JS						CITY OF SAUSALITO		VERIFY SCALES	JOB NO. 9582A.10_007
DRAWN BH						GLEN COURT SEWER REPLACEMENT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. G02
CHECKED AP						GENERAL		0 1"	SHEET NO.
DATE NOVEMBER 2015						GENERAL NOTES AND LEGEND		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	2 OF 6
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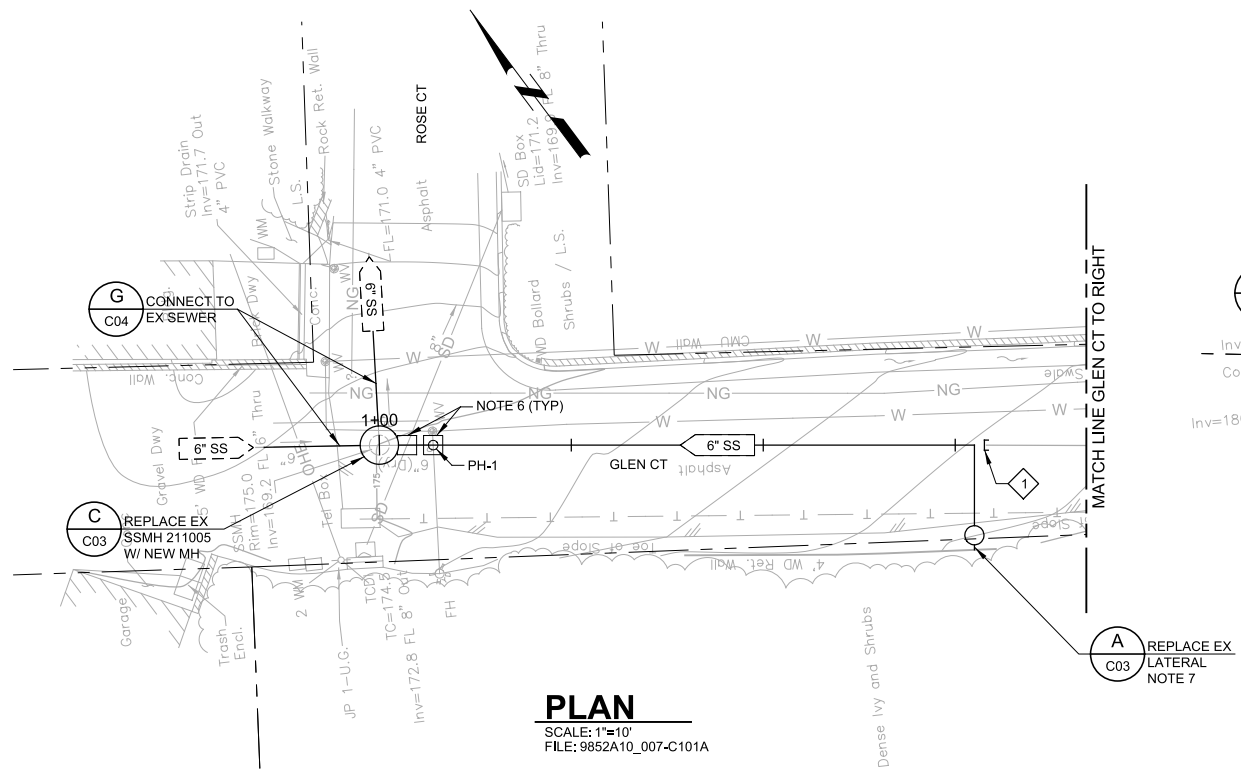
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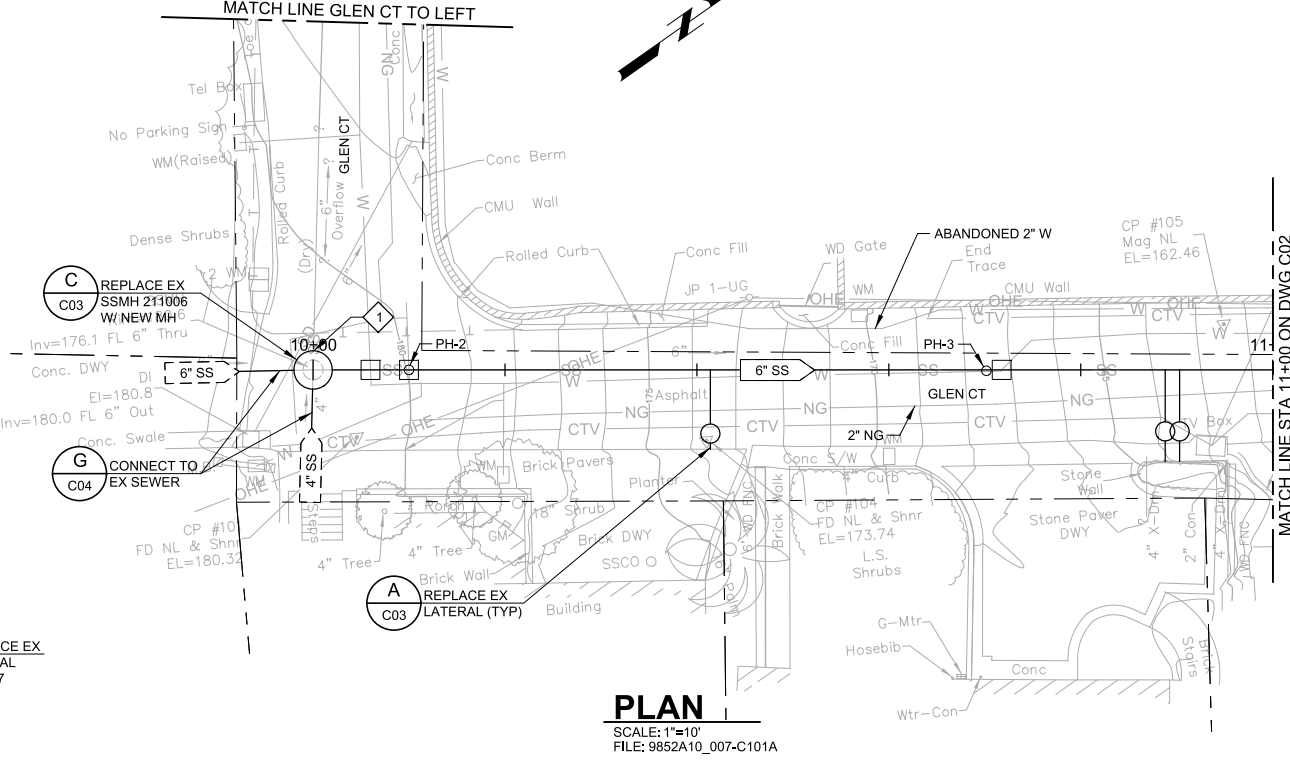
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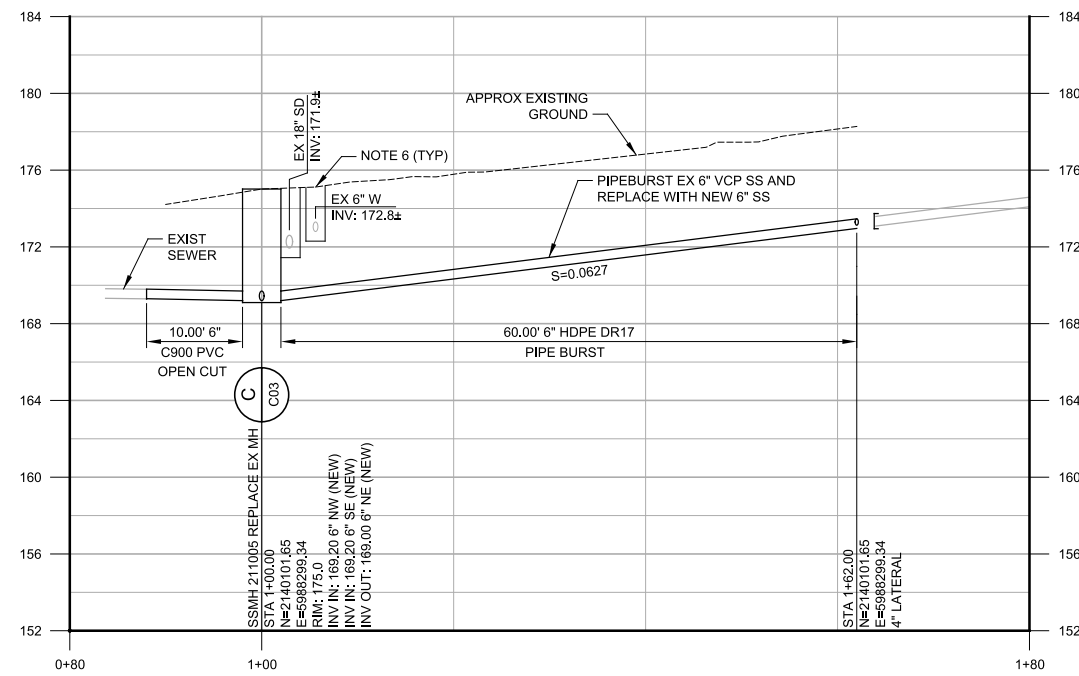
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SCALE: 1"=10'
FILE: 9852A10_007-C101A

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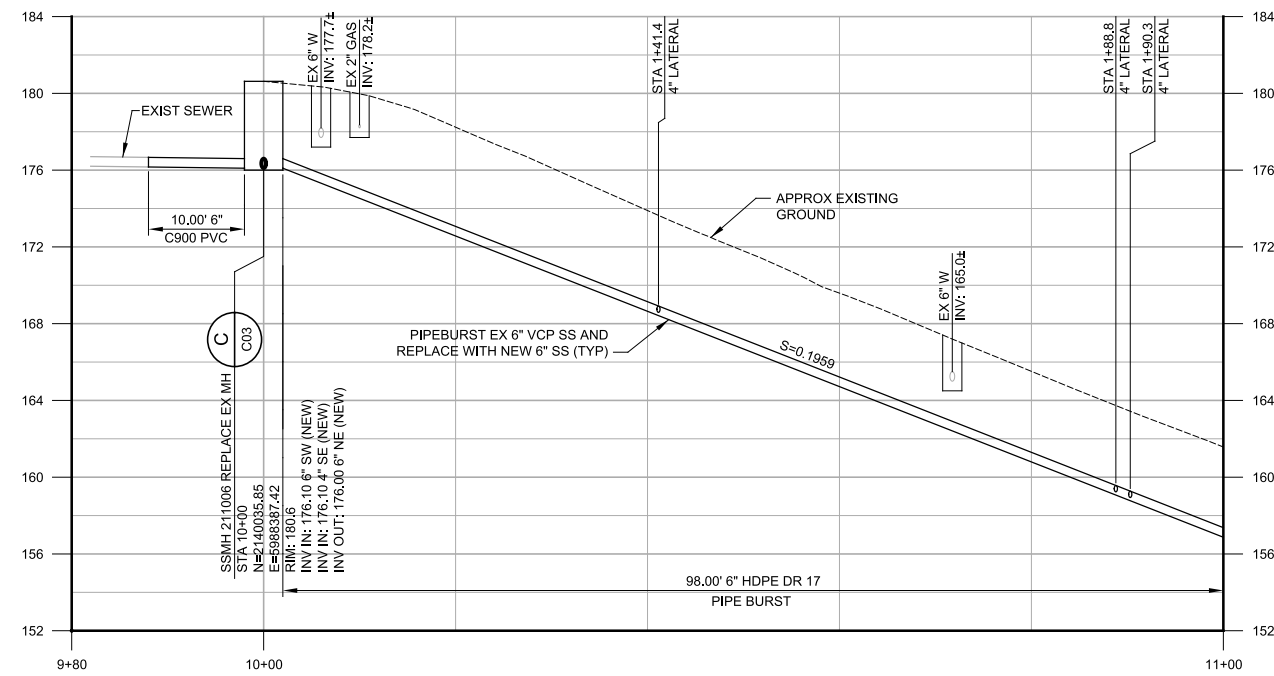
1. PRIOR TO EXCAVATION, CONTRACTOR SHALL CLEAN AND TELEVIEW ALL EXISTING SEWER MAINS AND MARK ALL SEWER LATERAL CONNECTIONS TO THE SEWER MAIN ON THE STREET. CONTRACTOR SHALL LOCATE AND MARK EACH SEWER LATERAL IMMEDIATELY BEHIND THE CURB AREA, INCLUDING THE ENTIRE ALIGNMENT OF EACH SEWER LATERAL FROM THE MAIN TO BACK OF CURB AREA. CONTRACTOR SHALL POTHOLE ALL SEWER LATERALS BEHIND THE CURB AREA TO CONFIRM EACH IS A LIVE SEWER BY CUTTING A HOLE IN THE TOP OF THE PIPE. CONTRACTOR SHALL THEN TEMPORARILY BACKFILL THE SEWER LATERALS POTHOLES OR COVER THEM IN A MANNER APPROVED BY THE CITY. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LATERALS TO FAR SIDE OF STREET AND RECONNECT LATERAL SERVICE PER A-C03. CONTRACTOR SHALL INSTALL A CLEANOUT FOR EACH LATERAL PER D-C03.
2. SEWER SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL CONTROL FLOW AND/OR BYPASS AS NECESSARY.
3. PROTECT EXISTING UTILITIES IN PLACE UNLESS SPECIFIED OTHERWISE.
4. STATIONING BASED UPON THE CENTERLINE OF EXISTING SEWER.
5. REFER TO DETAILS B-C03 FOR PAVEMENT REPAIR.
6. CONTRACTOR SHALL EXCAVATE 2'X2' STRESS RELIEF PIT FROM GRADE TO 6" BELOW EXISTING UTILITY PRIOR TO PIPE BURSTING. BACKFILL PIT WITH CLSM TO BOTTOM OF STREET SECTION. REPAVE PIT WITH 4" MINIMUM HOT MIX AC AND 12" AB OR MATCH EXISTING AC THICKNESS (WHICHEVER IS GREATER).
7. CONTRACTOR SHALL FIELD VERIFY LOCATION OF LATERAL PRIOR TO CONSTRUCTION.

KEY NOTES:

- 1. CONTRACTOR SHALL CUT EXISTING 6" SEWER ON SOUTH SIDE OF LATERAL CONNECTION. ABANDON SEWER IN PLACE BY PLUGGING ENDS AND FILLING WITH CLSM BETWEEN LATERAL AND MH 211006.



PROFILE
HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'
FILE: 9852A10_007-C101A



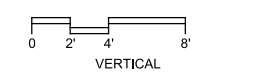
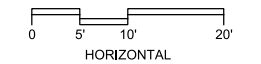
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HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'
FILE: 9852A10_007-C101A

Call before you Dig
Avoid cutting underground utility lines. It's costly.



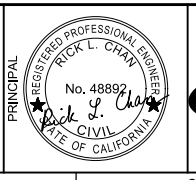
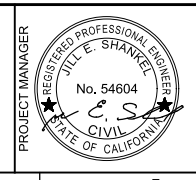
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SCALE



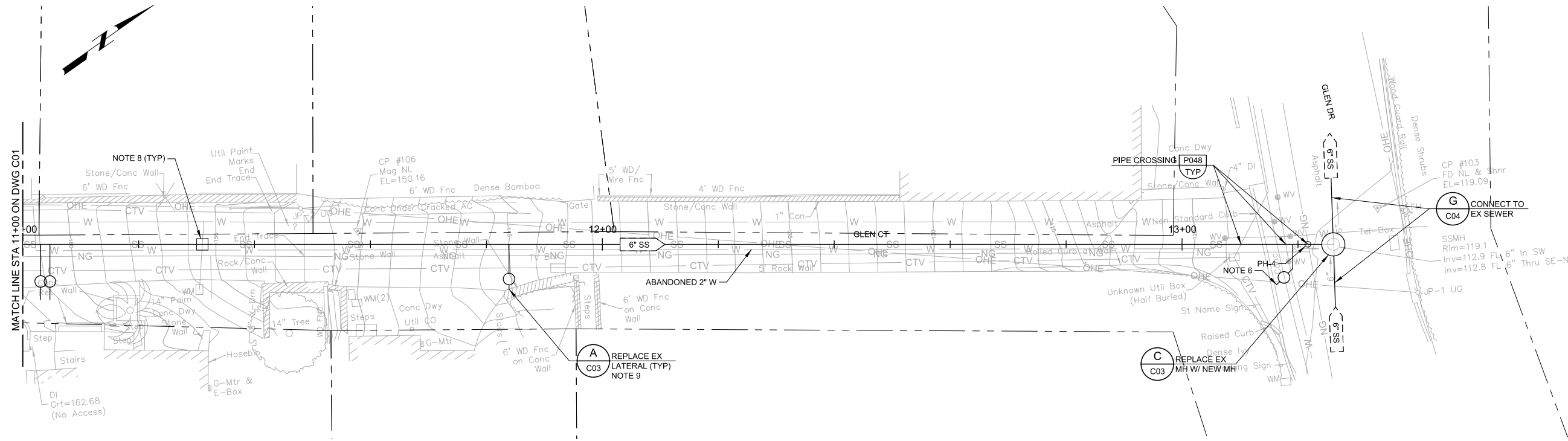
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DESIGNED	JS
DRAWN	BH
CHECKED	AP
DATE	NOVEMBER 2015

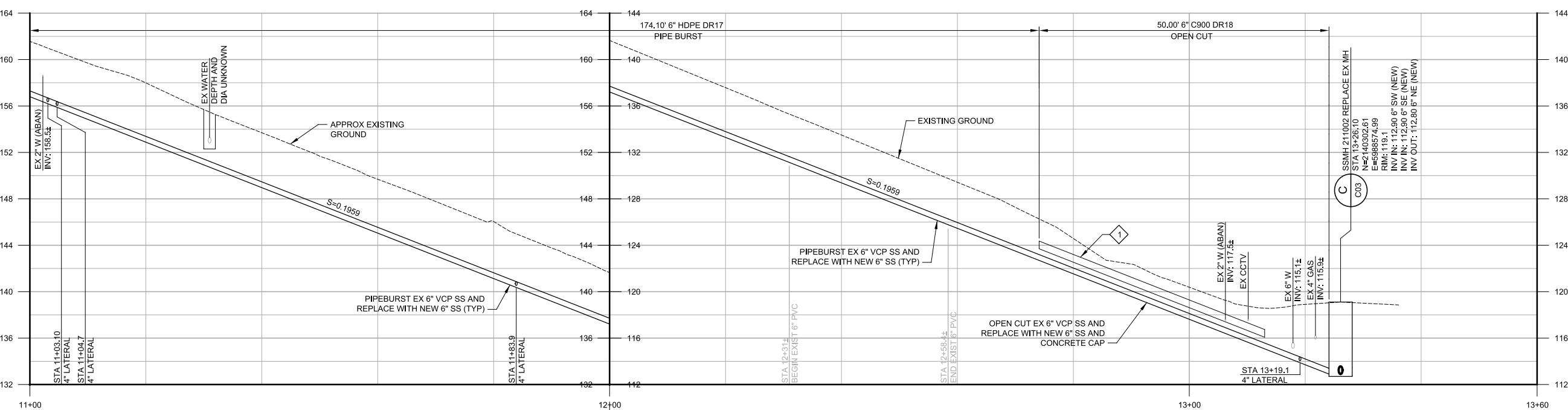


CITY OF SAUSALITO
GLEN COURT SEWER REPLACEMENT PROJECT
CIVIL
PLAN AND PROFILE
STA 1+00 TO 1+62 AND STA 10+00 TO 11+00

VERIFY SCALES	JOB NO. 9582A.10_007
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. C01
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 3 OF 6



PLAN
SCALE: 1"=10'
FILE: 9551A10_C101A



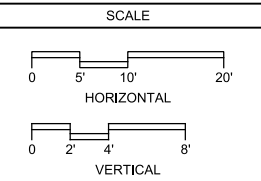
PROFILE
HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'
FILE: 9551A10_C101A

- GENERAL NOTES:**
- PRIOR TO EXCAVATION, CONTRACTOR SHALL CLEAN AND TELEVIEW ALL EXISTING SEWER MAINS AND MARK ALL SEWER LATERAL CONNECTIONS TO THE SEWER MAIN ON THE STREET. CONTRACTOR SHALL LOCATE AND MARK EACH SEWER LATERAL IMMEDIATELY BEHIND THE CURB AREA, INCLUDING THE ENTIRE ALIGNMENT OF EACH SEWER LATERAL FROM THE MAIN TO BACK OF CURB AREA. CONTRACTOR SHALL POTHOLE ALL SEWER LATERALS BEHIND THE CURB AREA TO CONFIRM EACH IS A LIVE SEWER BY CUTTING A HOLE IN THE TOP OF THE PIPE. CONTRACTOR SHALL THEN TEMPORARILY BACKFILL THE SEWER LATERALS POTHOLES OR COVER THEM IN A MANNER APPROVED BY THE CITY. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LATERALS TO FAR SIDE OF STREET AND RECONNECT LATERAL SERVICE PER A-C03. CONTRACTOR SHALL INSTALL A CLEANOUT FOR EACH LATERAL PER D-C03.
 - SEWER SHALL REMAIN IN SERVICE AT ALL TIMES. CONTRACTOR SHALL CONTROL FLOW AND/OR BYPASS AS NECESSARY.
 - PROTECT EXISTING UTILITIES IN PLACE UNLESS SPECIFIED OTHERWISE.
 - STATIONING BASED UPON THE CENTERLINE OF EXISTING SEWER.
 - REFER TO DETAIL B-C03 FOR PAVEMENT REPAIR.
 - RECONNECT EXISTING LATERAL A MINIMUM OF 3' FROM MANHOLE WALL.
 - NEW SEWER SHALL BE C900 PVC DR 18 WHERE DEPTH OF COVER IS LESS THAN 3 FEET MINIMUM. TRENCH WIDTH SHALL BE EQUAL TO OUTSIDE PIPE DIAMETER PLUS 24 INCHES. CONNECT HDPE TO PVC PIPE USING MISSION FLEX SEAL ARC COUPLING W/ ST STL SHEAR BAND.
 - CONTRACTOR SHALL EXCAVATE 2'X2' STRESS RELIEF PIT FROM GRADE TO 6" BELOW EXISTING UTILITY. BACKFILL PIT WITH CLSM TO BOTTOM OF STREET SECTION. REPAVE IT WITH 4" MINIMUM HOT MIX AC AND 12" AB OR MATCH EXISTING AC THICKNESS (WHICHEVER IS GREATER).
 - CONTRACTOR SHALL FIELD VERIFY LOCATION OF LATERAL PRIOR TO CONSTRUCTION.

- KEY NOTES:**
- CONTRACTOR SHALL INSTALL CONCRETE PIPE PROTECTION PER DETAIL E/C04 WHERE PIPE COVER IS LESS THAN 3 FEET. BETWEEN APPROX STA 12+73 AND 13+13.

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call 811
OR
1-800-227-2600

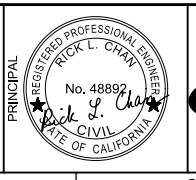


REV	DATE	BY	DESCRIPTION
1			
2			
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DESIGNED JS
DRAWN BH
CHECKED AP
DATE NOVEMBER 2015

PROJECT MANAGER
JILL E. SHANKLE
No. 54604
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PRINCIPAL
RICK L. CHAN
No. 48892
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA



CITY OF SAUSALITO
GLEN COURT SEWER REPLACEMENT PROJECT
CIVIL

CITY OF SAUSALITO
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CIVIL
PLAN AND PROFILE
STA 11+00 TO 13+26.10

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

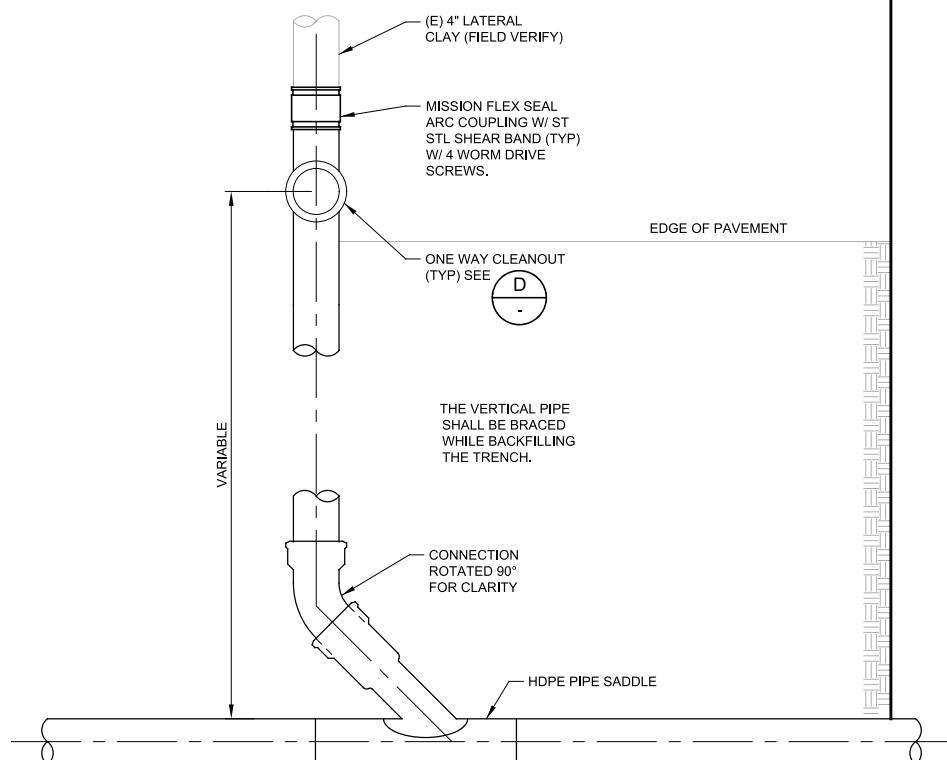
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DRAWING NO. C02
SHEET NO. 4 OF 6

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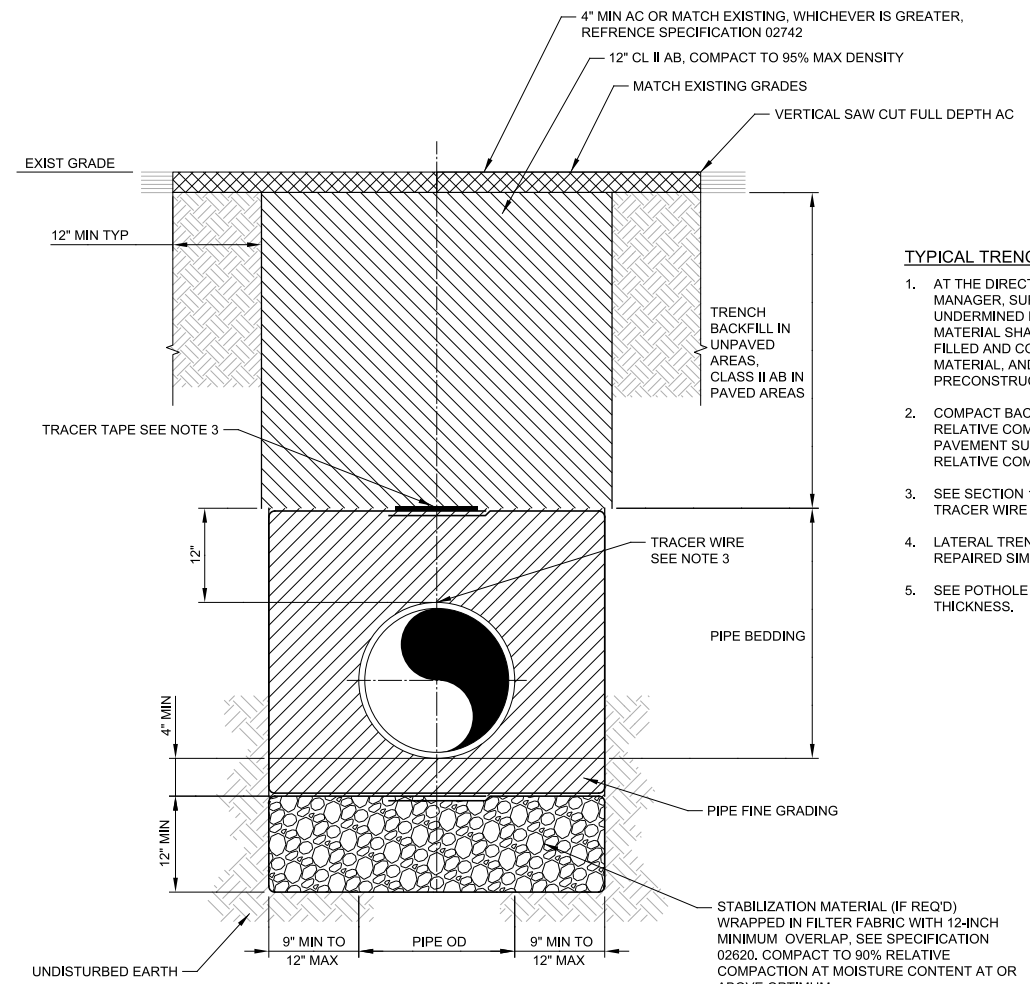
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LAST SAVED BY: bhaves



LATERAL CONNECTION NOTES:

1. EXTEND PORTION OF NEW LATERAL AS REQUIRED TO CONNECT TO EXISTING LATERAL AT SOUND PIPE.
2. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE COMPRESSION TYPE, UNLESS NOTED OTHERWISE.
3. LATERAL PIPE AND FITTINGS ASHALL MATCH SAME MATERIAL AND CLASS AS MAIN SEWER.
4. THIS DETAIL IS DIAGRAMMATIC, MATCH EXISTING LATERAL CONFIGURATION.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER PIPE MATERIAL PRIOR TO PURCHASE OF COUPLING ADAPTERS.
6. DRAINAGE SLOPE SHALL BE A MINIMUM OF 2%.

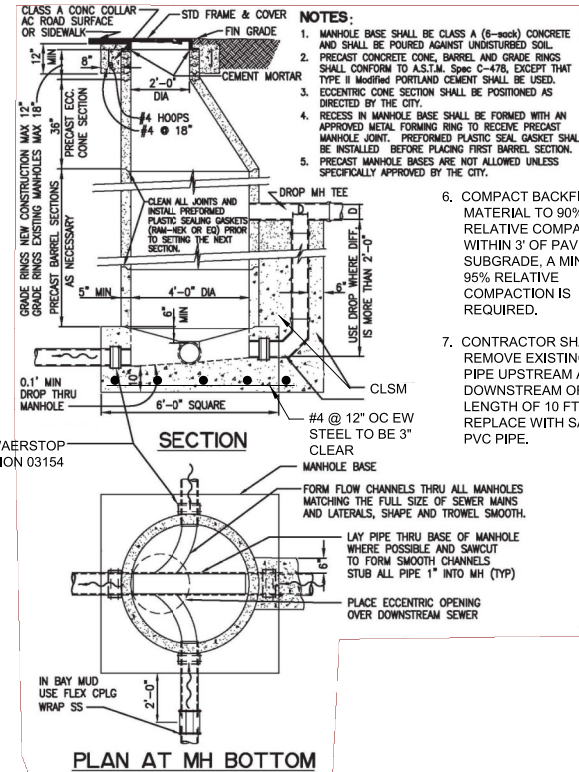


TYPICAL TRENCH NOTES:

1. AT THE DIRECTION OF THE CONSTRUCTION MANAGER, SURFACE IMPROVEMENTS UNDERMINED BY LOSS OF UNDERLYING MATERIAL SHALL BE REMOVED, THE VOID FILLED AND COMPACTED WITH APPROVED MATERIAL, AND THE SURFACE RESTORED TO PRECONSTRUCTION CONDITION.
2. COMPACT BACKFILL MATERIAL TO 90% RELATIVE COMPACTION. WITHIN 2' OF PAVEMENT SUBGRADE, A MINIMUM OF 95% RELATIVE COMPACTION IS REQUIRED.
3. SEE SECTION 15076 FOR TRACER TAPE AND TRACER WIRE REQUIREMENTS.
4. LATERAL TRENCH NOT SHOWN BUT SHOULD BE REPAIRED SIMILAR TO MAIN TRENCH.
5. SEE POTHOLE TABLE ON G02 FOR EXISTING AC THICKNESS.

A TYPICAL LATERAL RECONNECTION TO LOWER SEWER

TYP SCALE: NTS FILE: -

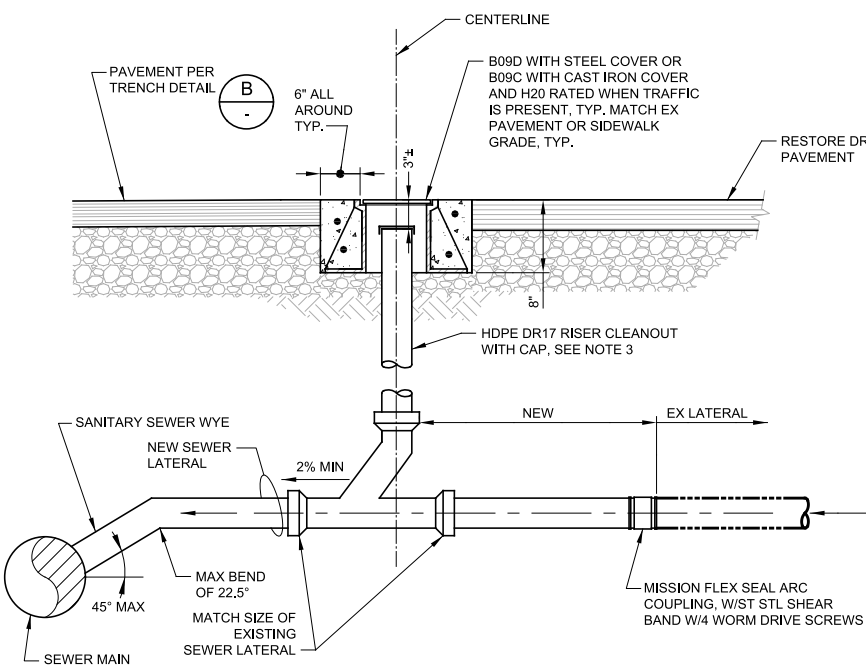


NOTES:

1. MANHOLE BASE SHALL BE CLASS A (6-sock) CONCRETE AND SHALL BE POURED AGAINST UNDISTURBED SOIL.
2. PRECAST CONCRETE CONE, BARREL AND GRADE RINGS SHALL CONFORM TO A.S.T.M. Spec C-478, EXCEPT THAT TYPE II Modified PORTLAND CEMENT SHALL BE USED.
3. ECCENTRIC CONE SECTION SHALL BE POSITIONED AS DIRECTED BY THE CITY.
4. RECESS IN MANHOLE BASE SHALL BE FORMED WITH AN APPROVED METAL FORMING RING TO RECEIVE PRECAST MANHOLE JOINT. PREFORMED PLASTIC SEAL GASKET SHALL BE INSTALLED BEFORE PLACING FIRST BARREL SECTION.
5. PRECAST MANHOLE BASES ARE NOT ALLOWED UNLESS SPECIALLY APPROVED BY THE CITY.
6. COMPACT BACKFILL MATERIAL TO 90% RELATIVE COMPACTION. WITHIN 3' OF PAVEMENT SUBGRADE, A MINIMUM OF 95% RELATIVE COMPACTION IS REQUIRED.
7. CONTRACTOR SHALL REMOVE EXISTING SEWER PIPE UPSTREAM AND DOWNSTREAM OF MH TO A LENGTH OF 10 FT AND REPLACE WITH SAME SIZE PVC PIPE.

C ECCENTRIC MANHOLE

TYP SCALE: NTS FILE: -



ONE-WAY CLEANOUT NOTES:

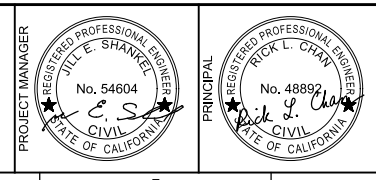
1. CONTRACTOR TO VERIFY SIZE OF EX SEWER LATERAL AND PROVIDE ALL FITTINGS NECESSARY TO INSTALL NEW CLEANOUT AND CONNECT NEW SEWER.
2. LATERAL TRENCH AND EXCAVATION TO BE RESTORED PER DETAIL B C03.
3. CAP CLEANOUT WITH GEM CAP.
4. LOCATE EDGE OF CLEANOUT COLLAR 6\"/>
- 5. ACTUAL LENGTH OF LATERAL TO BE DETERMINED IN FIELD. CONTRACTOR SHALL ASSUME 20' LENGTH FOR BID.

D ONE-WAY CLEANOUT

TYP SCALE: NTS FILE: -

DESIGNED	JS
DRAWN	BH
CHECKED	AP
DATE	NOVEMBER 2015

PROJECT MANAGER	JILL E. SHANKEL No. 54604 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
PRINCIPAL	RICK L. CHAN No. 48892 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA



CITY OF SAUSALITO
GLEN COURT SEWER REPLACEMENT PROJECT
 CIVIL
DETAILS 1

VERIFY SCALES	JOB NO. 9582A.10_007
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. C03
0 1"	SHEET NO. 5 OF 6
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 12-NOV-2015 2:05:40 PM

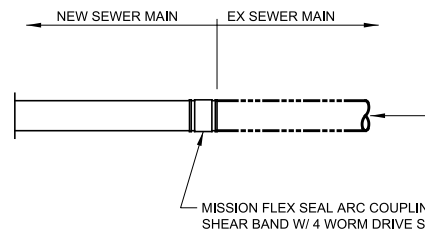
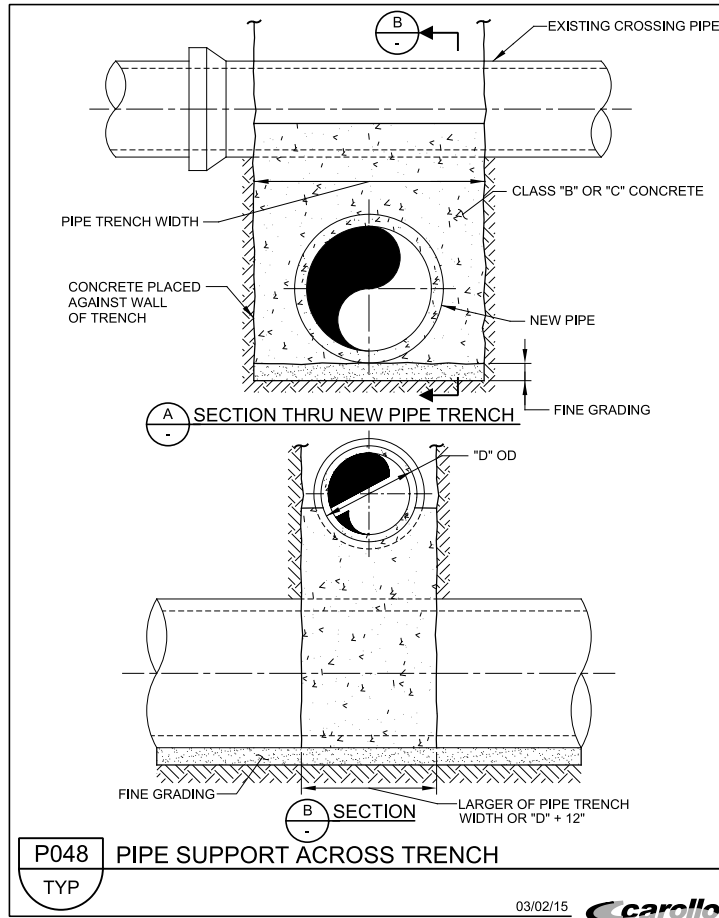
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PlotScale: 2:1

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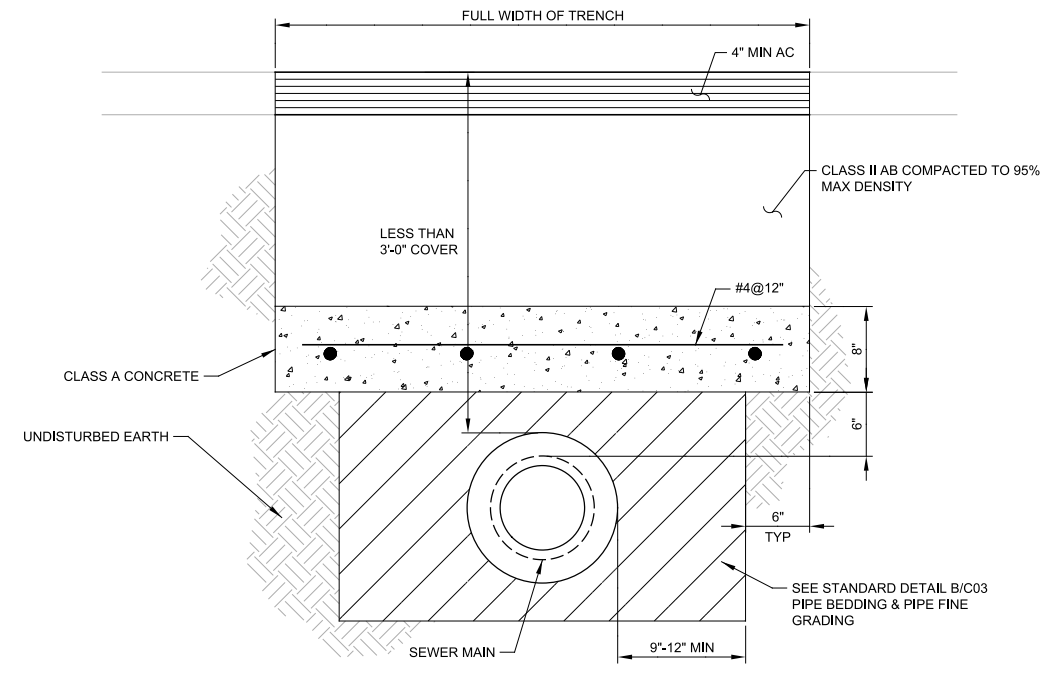
Model: Layout1

ColorTable: gshades.ctb



NOTES:
REFER TO PLAN AND PROFILE DRAWINGS FOR SEWER MAIN MATERIALS.

G SEWER MAIN CONNECTION
TYP SCALE: NTS FILE: -



E CONCRETE PIPE PROTECTION
TYP SCALE: NTS FILE: -

REV	DATE	BY	DESCRIPTION

DESIGNED JS
DRAWN BH
CHECKED AP
DATE NOVEMBER 2015



CITY OF SAUSALITO
GLEN COURT SEWER REPLACEMENT PROJECT
CIVIL
DETAILS 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 9582A.10_007
DRAWING NO. C04
SHEET NO. 6 OF 6