



CITY OF SAUSALITO

GATE 5 ROAD SEWER REPLACEMENT PROJECT

MARIN COUNTY, CALIFORNIA

APRIL 2016

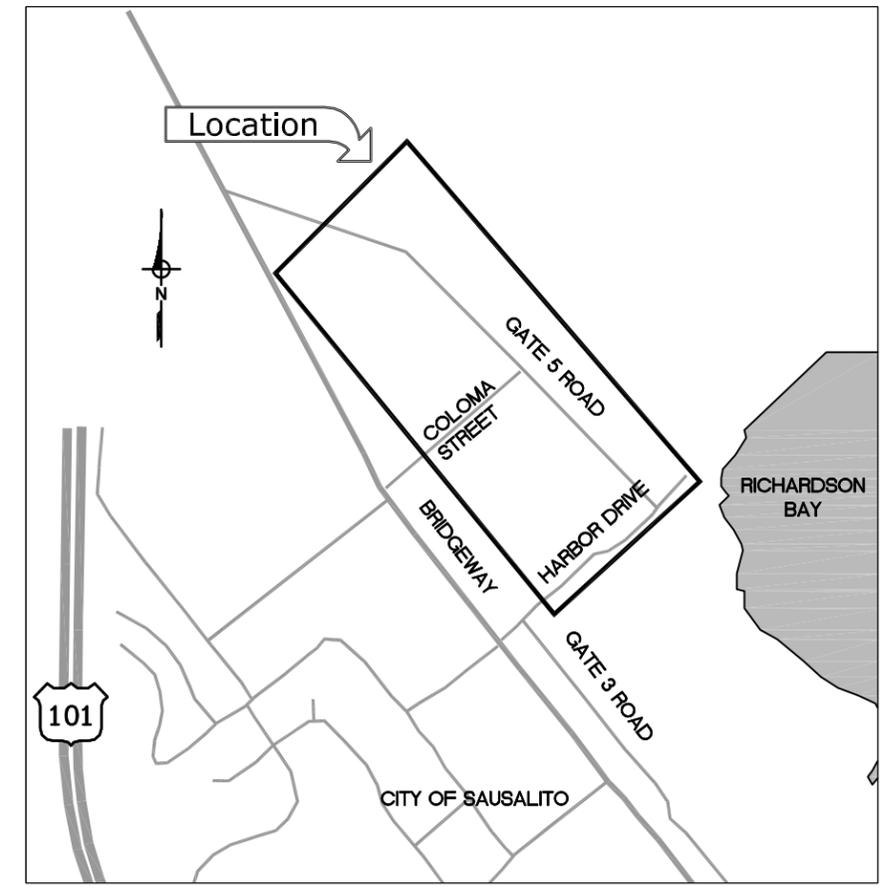
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LOCATION MAP
NTS

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

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



VICINITY MAP
NTS

JOB NO. 9852A.10_003
DRAWING NO. G01
SHEET NO. 1 OF 11

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ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AVE	AVENUE
BIC	BREAK IN CONNECTION
BM	BENCHMARK
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CIP	CAST IRON PIPE
CL	CENTERLINE, CLASS
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CO	CLEAN OUT, COMPANY
COMM	COMMUNICATIONS
CONC	CONCRETE
CPLG	COUPLING
CTV	CLOSED CIRCUIT TELEVISION
DI	DRAINAGE INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE, DIMENSION RATIO
DWG	DRAWING
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EW	EACH WAY
EX, EXIST	EXISTING
FO	FIBER OPTIC
FH	FIRE HYDRANT
FPVC	FUSIBLE POLY VINYL CHLORIDE PIPE
FL	FLOW LINE
FLGD	FLANGED
FPVC	FUSIBLE POLY VINYL CHLORIDE PIPE
FTG	FITTING
FT	FOOT, FEET
G	GAS
GPS	GLOBAL POSITIONING SYSTEM
GRND	GROUND
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORZ	HORIZONTAL
HT	HEIGHT
INV	INVERT
JT	JOINT TRENCH
L	LENGTH
LDCCF	LOW DENSITY CELLULAR CONCRETE FILL
LF	LINEAR FOOT, LOAD FACTOR
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MON	MONUMENT
NAVD	NORTH AMERICAN VERTICAL DATUM
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NO.	NUMBER
NTS	NOT TO SCALE
OBS	OBSERVATIONS
PG&E	PACIFIC GAS & ELECTRIC
PID	PERMANENT IDENTIFIER
PL	PROPERTY LINE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLY VINYL CHLORIDE PIPE
RB	REFERENCE BORING
RC	RELATIVE COMPACTION
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RI	RODDING INLET
ROW	RIGHT-OF-WAY
S	SLOPE, SEWER, SOUTH
SD	STORM DRAIN
SHT	SHEET
SPEC	SPECIFICATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
T	TANGENT, TELEPHONE
TEL	TELEPHONE
TS	TRAFFIC SIGNAL
TSB	TRAFFIC SIGNAL BOX
TYP	TYPICAL
V	VERTICAL
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WEST, WATER, WIRE
WM	WATER METER
WV	WATER VALVE

LEGEND

FO	EXISTING FIBER OPTIC
JT	EXISTING JOINT TRENCH
OHE	EXISTING OVERHEAD ELEC/CABLE
CTV	EXISTING UNDERGROUND CABLE
EC	EXISTING UNDERGROUND ELEC
E	EXISTING UNDERGROUND ELEC
NG	EXISTING UNDERGROUND GAS
SD	EXISTING STORM DRAIN W/CATCH BASIN & MANHOLE
XX" SD	EXISTING STORM DRAIN W/CATCH BASIN & MANHOLE
6" SS	EXISTING SEWER OR FORCE MAIN W/ MANHOLE
XX" SS	EXISTING SEWER OR FORCE MAIN W/ MANHOLE
XX" FM	EXISTING SEWER OR FORCE MAIN W/ MANHOLE
TEL	EXISTING TELEPHONE
FIBER OPTIC CABLE	EXISTING FIBER OPTIC CABLE
TS	EXISTING TRAFFIC SIGNAL
W	EXISTING WATER W/ VALVE, METER
XX" W	EXISTING WATER W/ VALVE, METER
NEW SEWER W/MANHOLE	NEW SEWER W/MANHOLE
PROPERTY LINE	PROPERTY LINE
EXISTING DRIVEWAY	EXISTING DRIVEWAY
LIGHT POLE	LIGHT POLE
UTILITY LOCATION POTHOLE	UTILITY LOCATION POTHOLE
UTILITY POLE	UTILITY POLE
POWER POLE	POWER POLE
WATER METER	WATER METER
MONUMENT	MONUMENT
STORMWATER DRAIN	STORMWATER DRAIN
CLEAN OUT	CLEAN OUT
STREET SIGN	STREET SIGN
FIRE HYDRANT	FIRE HYDRANT
NEW LATERAL AND CLEANOUT	NEW LATERAL AND CLEANOUT
REMOVE EXIST PIPE	REMOVE EXIST PIPE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
WALL (SIZE AND TYPE)	WALL (SIZE AND TYPE)
BUILDING WALL	BUILDING WALL
HEDGE	HEDGE
TREES (SIZE AND TYPE)	TREES (SIZE AND TYPE)
MANHOLE	MANHOLE
CATCH BASIN (SIZE AS SHOWN)	CATCH BASIN (SIZE AS SHOWN)
SPOT ELEVATION	SPOT ELEVATION
SURVEY CONTROL POINT	SURVEY CONTROL POINT
PERMANENT EASEMENT	PERMANENT EASEMENT
BORING	BORING

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 ALLOW CONSTRUCTION MANAGER TO CONFIRM EACH IS A LIVE SEWER BY CUTTING A HOLE IN THE TOP OF THE PIPE. CONTRACTOR SHALL THEN TEMPORARILY REPAIR SEWER LATERALS AND EITHER TEMPORARILY BACKFILL THE SEWER LATERAL POTHOLES OR COVER THEM IN A MANNER APPROVED BY THE CITY. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LATERALS TO FAR SIDE OF CURB AND RECONNECT LATERAL SERVICE PER A-C07. CONTRACTOR SHALL INSTALL A CLEANOUT FOR EACH LATERAL PER D-C07.
- THE LOCATIONS AND NUMBER OF THE BUILDING SEWERS (LATERALS) ARE APPROXIMATE AND ARE BASED ON CCTV PROVIDED BY E2 CONSULTING ENGINEERS AND ROTO ROOTER. CONTRACTOR SHALL FIELD VERIFY ALL LATERAL LOCATIONS AND NUMBER THROUGH SEWER MAIN CCTV AND OTHER LOCATING METHODS AS NECESSARY. LOCATING AND POTHOLING OF ALL SEWER LATERALS IDENTIFIED ON THE PLANS AND BY CONTRACTOR'S CCTV/LOCATING SHALL BE CONSIDERED PART OF THE WORK. REGARDLESS OF NUMBER OF LATERALS. ANY LATERALS DAMAGED DURING CONSTRUCTION MUST BE REPAIRED AS PER DETAILS.
- CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-227-2600 AT LEAST 48 HOURS BEFORE DIGGING.
- THE FOLLOWING UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK:

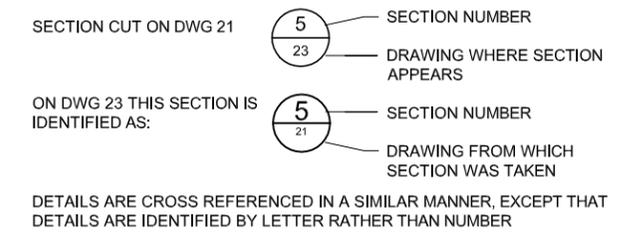
MUNICIPALITY/COMPANY	CONTACT	PHONE
SAUSALITO MARIN CITY SANITARY DISTRICT	KEVIN RAHMAN	(415) 332-0244
PG&E GAS	CHRIS CHAN	(415) 257-3384
PG&E ELECTRIC	CHRIS CHAN	(415) 257-3384
COMCAST CABLE	BLAKE BRUHN	(925) 424-0329
SOUTHERN MARIN FIRE PREVENTION DISTRICT		(415) 289-4155
MARIN MUNICIPAL WATER DISTRICT	ELYSHA ANDERSON	(415) 945-1572
AT&T	MICHAEL MCAFFEE	(415) 499-4900

- 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.
- CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT MEETS THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND SHALL INCLUDE PEDESTRIAN AND VEHICULAR TRAFFIC. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY WITH ENCROACHMENT PERMIT APPLICATION FOR APPROVAL.
- ALL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA AT THE CONTRACTOR'S EXPENSE.
- 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 AND NUMBER OF THE UTILITIES SHALL BE VERIFIED IN THE FIELD BY CONTRACTOR'S USA MARKING REQUEST. SUCH VERIFICATION IS PART OF THE WORK.
- 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.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO RESIDENTS AT LEAST 48 HOURS BEFORE SEWER LATERALS ARE DISCONNECTED. WRITTEN NOTIFICATION SHALL INCLUDE A POINT OF CONTRACT, DATES AND DURATION OF WORK, LANE CLOSURES AND PARKING RESTRICTIONS.
- IF OWNER'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.
- AERIAL PHOTO COURTESY OF MARIN MAP. DATE OF AERIAL IS 2014.
- 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 NEW SEWER. MANHOLE NORTHINGS AND EASTINGS ARE TO CENTER OF MANHOLE BASE
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LATERAL TO FAR SIDE OF CURB AND RECONNECT LATERAL SERVICE PER A/C07.
- REPAIR CURB, GUTTER AND SIDEWALK DISTURBED BY WORK PER E/C08.
- WHEN THE CLEARANCE BETWEEN PIPES IS 12" OR LESS, INSTALL 1" THICK SQUARE PAD OF 35-45 DUROMETER RUBBER TO PROTECT EXISTING UTILITY. PAD WILL BE THE LARGER OF THE PIPE ODS IN WIDTH.

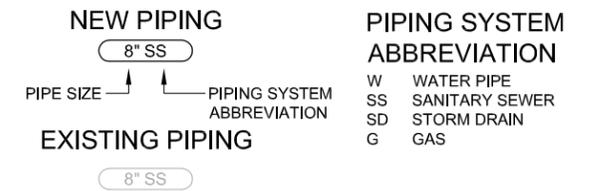
GENERAL NOTES (CONTINUED)

- CONTRACTOR SHALL ANTICIPATE A SECOND ROAD LAYER BENEATH VISIBLE ROAD SURFACE THAT WILL REQUIRE REMOVAL AND DISPOSAL FROM WITHIN THE TRENCH EXCAVATION FOR THE EXTENT OF BOTH GATE 5 ROAD AND HARBOR DRIVE.
- CONTRACTOR SHALL ANTICIPATE MOSTLY TYPE C. SOILS AND SIGNIFICANT DEWATERING. SEE APPENDICES D, E, AND F FOR GEOTECHNICAL CONDITIONS.

SECTION & DETAIL DESIGNATIONS



PIPING DESIGNATIONS



SURVEY CONTROL NOTES STA 13+10 TO STA 29+12.08

HORIZONTAL DATUM:
CALIFORNIA COORDINATE SYSTEM 83 (CCS83) ZONE 3 EPOCH DATE-2007
BASED UPON NATIONAL GEODETIC SURVEY 941 4819 TIDAL 32,
PID HT 1067

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SURVEY CONTROL NOTES STA 10+00 TO STA 13+00

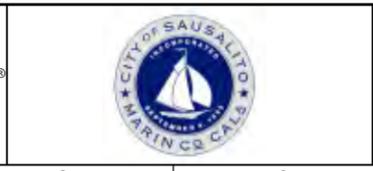
- THE COORDINATE SYSTEM IS BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III NAD 83, EPOCH 2007, HOLDING NGS PUBLISHED CONTROL MONUMENT WITH THE PERMANENT IDENTIFIER (PID) HT1067 (N 2142933.10, E 5986280.58). SEE "WWW.NGS.NOAA.GOV" FOR POINT DATA SHEET AND DESCRIPTION. RTK GPS WAS USED TO ESTABLISH LOCAL CONTROL POINTS AND TOPO OF FEATURES ON SITE.
- BASELINE CONTROL POINTS ESTABLISHED ON-SITE ARE LCC CP #103 (N 2145835.14, E 5983805.20 - GPS GRID COORDINATE HELD HERE), A SET MAG NAIL IN ASPHALT AT A PARKING LOT EAST OF #27 GATE 5 RD., LCC CP #102 (N 2145867.86, E 5983550.52), A SET MAG NAIL IN ASPHALT NEAR THE DRIVEWAY TO #3 GATE 5 RD.. DISTANCES AND COORDINATES AS SHOWN ON THIS SURVEY SHOULD BE CONSIDERED AS GROUND DISTANCES AND COORDINATES.
- ELEVATIONS ARE BASED ON NAVD 88, NGS PUBLISHED CONTROL MONUMENT WITH THE PERMANENT IDENTIFIER (PID) HT1067, EL=11.71 FT. TEMPORARY PROJECT BM IS CP #103, EL=10.28 FT NAVD 88 GPS OBS.

REV	DATE	BY	DESCRIPTION
1			
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3			

DESIGNED	JIJES
DRAWN	BH
CHECKED	AP
DATE	APRIL 2016

PROJECT MANAGER

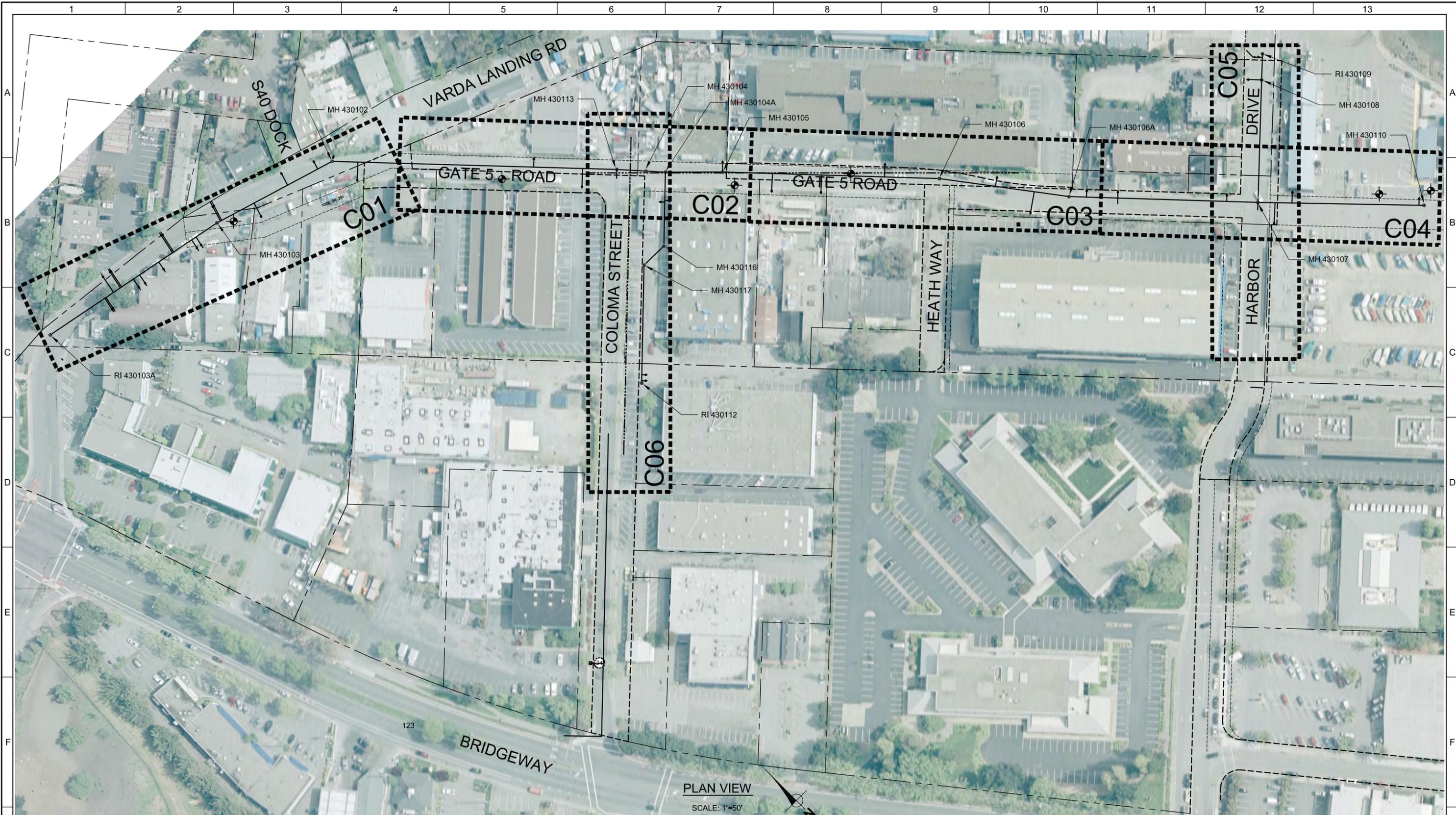
 PRINCIPAL



CITY OF SAUSALITO
 GATE 5 ROAD SEWER REPLACEMENT
 GENERAL NOTES AND LEGEND

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	9852A.10_003
0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	G02
	SHEET NO.
	2 OF 11

Plot Date: 4/21/2016 4:26:21 PM



PLAN VIEW

SCALE: 1"=50'

LAST SAVED BY: bhwis

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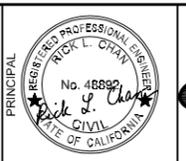
DESIGNED
JIJES

DRAWN
BH

CHECKED
ALP

DATE
APRIL 2016

PROJECT ENGINEER



CITY OF SAUSALITO

GATE 5 ROAD SEWER REPLACEMENT

KEY MAP

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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9852A.10_003

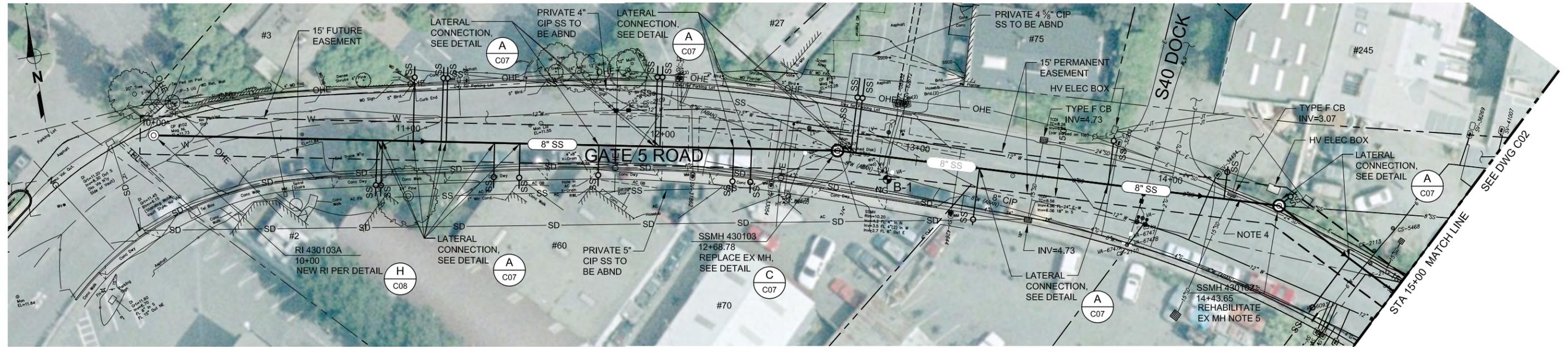
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G03

SHEET NO.
3 OF 11

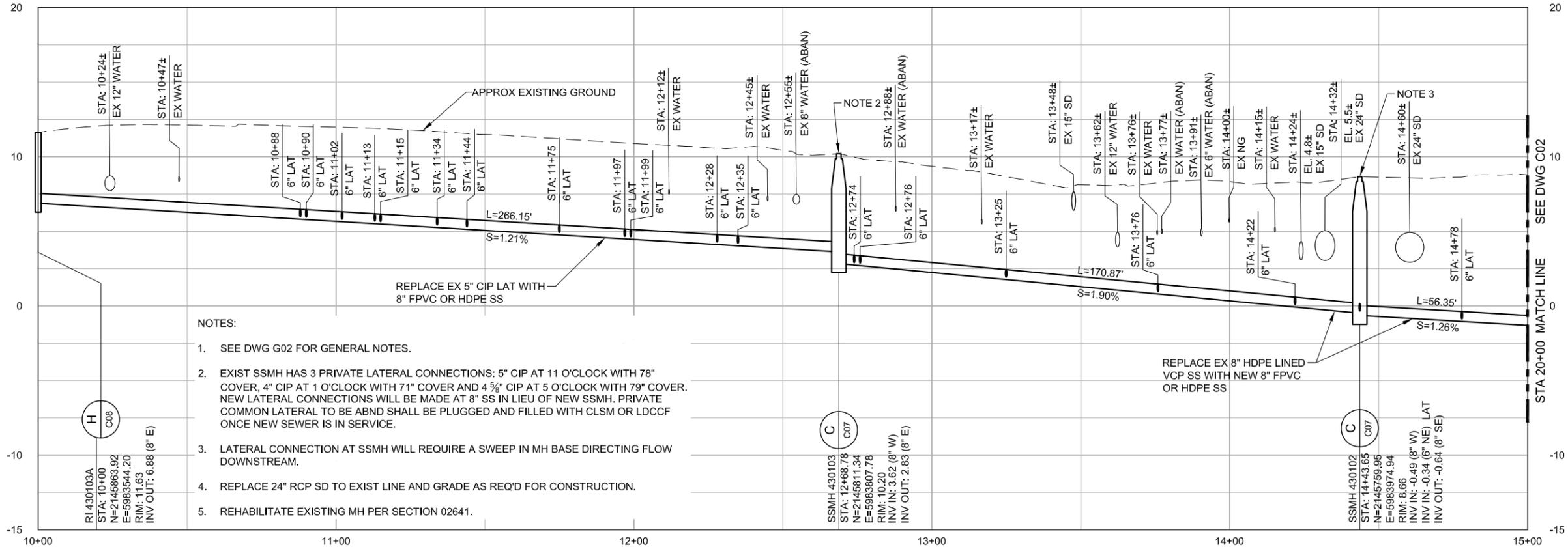
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LAST SAVED BY: bhwes



PLAN
SCALE: 1"=20'



PROFILE
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=4'
FILE: X45402-0902UTIL

NOTES:

- SEE DWG G02 FOR GENERAL NOTES.
- EXIST SSMH HAS 3 PRIVATE LATERAL CONNECTIONS: 5" CIP AT 11 O'CLOCK WITH 78" COVER, 4" CIP AT 1 O'CLOCK WITH 71" COVER AND 4 5/8" CIP AT 5 O'CLOCK WITH 79" COVER. NEW LATERAL CONNECTIONS WILL BE MADE AT 8" SS IN LIEU OF NEW SSMH. PRIVATE COMMON LATERAL TO BE ABNDN SHALL BE PLUGGED AND FILLED WITH CLSM OR LDCCF ONCE NEW SEWER IS IN SERVICE.
- LATERAL CONNECTION AT SSMH WILL REQUIRE A SWEEP IN MH BASE DIRECTING FLOW DOWNSTREAM.
- REPLACE 24" RCP SD TO EXIST LINE AND GRADE AS REQ'D FOR CONSTRUCTION.
- REHABILITATE EXISTING MH PER SECTION 02641.

ALTERNATIVE ADDITIVE BID ITEM 2

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED JIWES	PROJECT ENGINEER
DRAWN BH	
CHECKED AP	
DATE APRIL 2016	

PROJECT MANAGER

PRINCIPAL

CITY OF SAUSALITO
 GATE 5 ROAD SEWER REPLACEMENT
 GATE 5 ROAD - PLAN & PROFILE
 STA 10+00 TO 15+00

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

JOB NO.
9852A.10_003

DRAWING NO.
C01

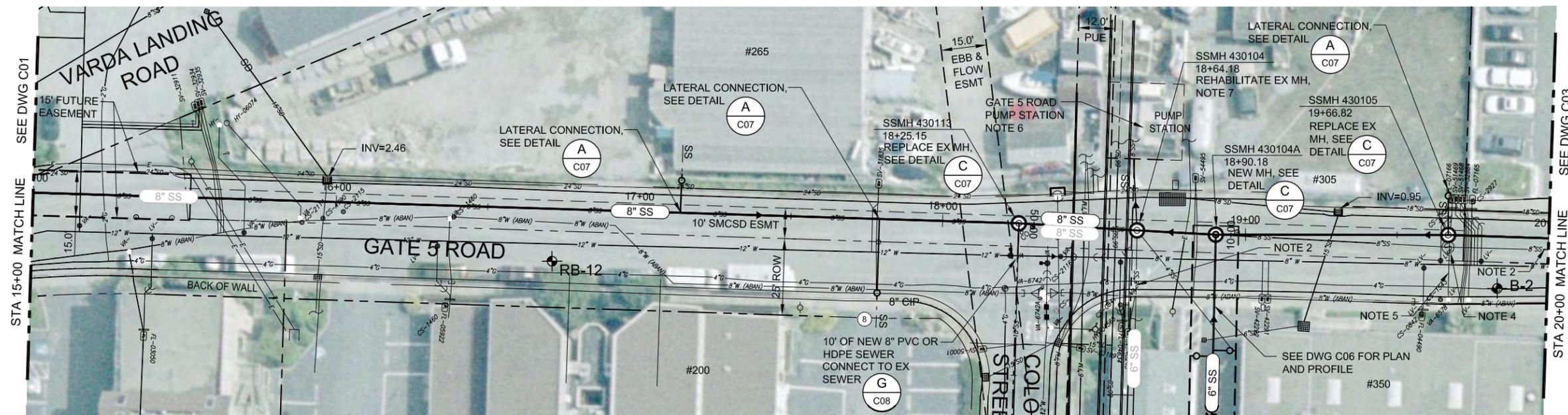
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4 OF 11

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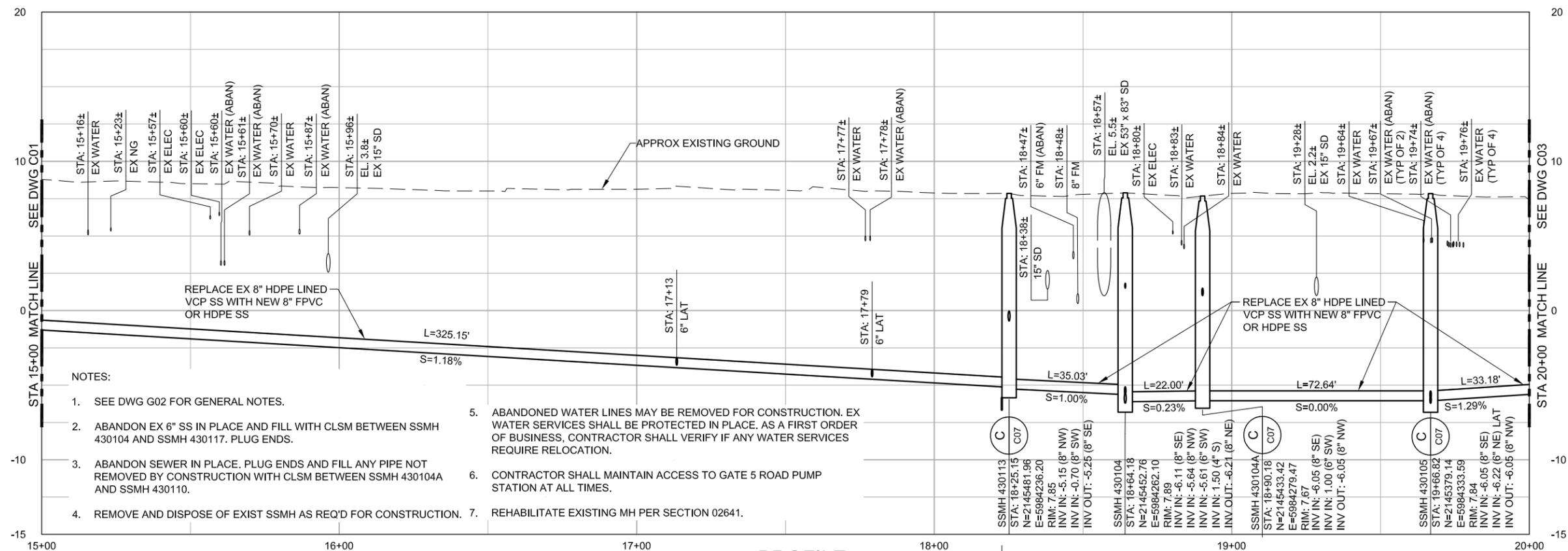
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PROJECT NO. 9852A10_003

LAST SAVED BY: bhwaves



PLAN
SCALE: 1"=20'



PROFILE
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=4'
FILE: X45402-0902UTIL

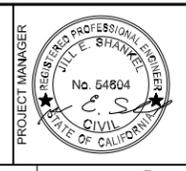
NOTES:

- SEE DWG G02 FOR GENERAL NOTES.
- ABANDON EX 6" SS IN PLACE AND FILL WITH CLSM BETWEEN SSMH 430104 AND SSMH 430117. PLUG ENDS.
- ABANDON SEWER IN PLACE. PLUG ENDS AND FILL ANY PIPE NOT REMOVED BY CONSTRUCTION WITH CLSM BETWEEN SSMH 430104A AND SSMH 430110.
- REMOVE AND DISPOSE OF EXIST SSMH AS REQ'D FOR CONSTRUCTION.
- ABANDONED WATER LINES MAY BE REMOVED FOR CONSTRUCTION. EX WATER SERVICES SHALL BE PROTECTED IN PLACE. AS A FIRST ORDER OF BUSINESS, CONTRACTOR SHALL VERIFY IF ANY WATER SERVICES REQUIRE RELOCATION.
- CONTRACTOR SHALL MAINTAIN ACCESS TO GATE 5 ROAD PUMP STATION AT ALL TIMES.
- REHABILITATE EXISTING MH PER SECTION 02641.

← ALTERNATIVE ADDITIVE BID ITEM 2 BASE BID →

REV	DATE	BY	DESCRIPTION
1			
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3			
4			

DESIGNED JIJES	PROJECT ENGINEER
DRAWN BH	
CHECKED AP	
DATE APRIL 2016	



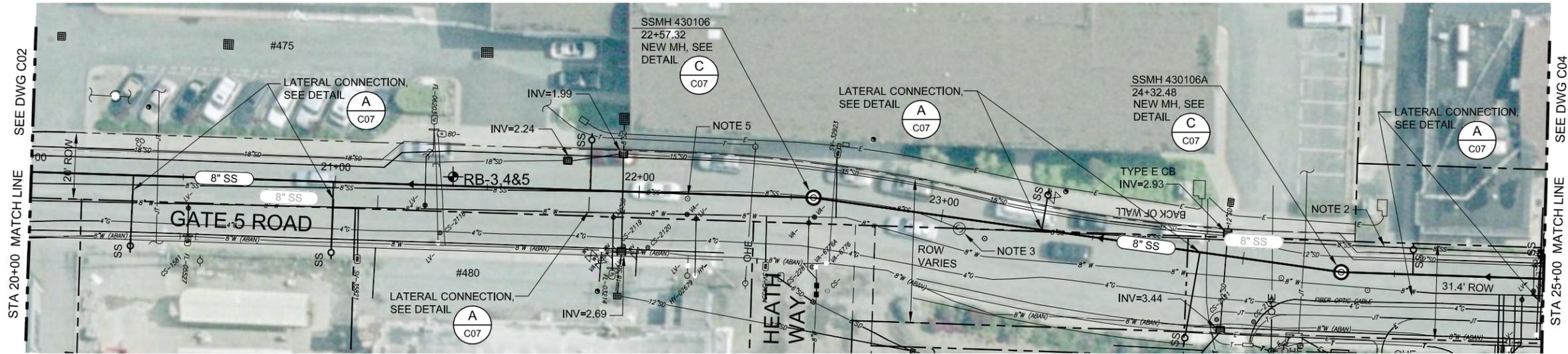
CITY OF SAUSALITO
GATE 5 ROAD SEWER REPLACEMENT
GATE 5 ROAD - PLAN & PROFILE
STA 15+00 TO 20+00

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1'	JOB NO. 9852A10_003
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. C02
	SHEET NO. 5 OF 11

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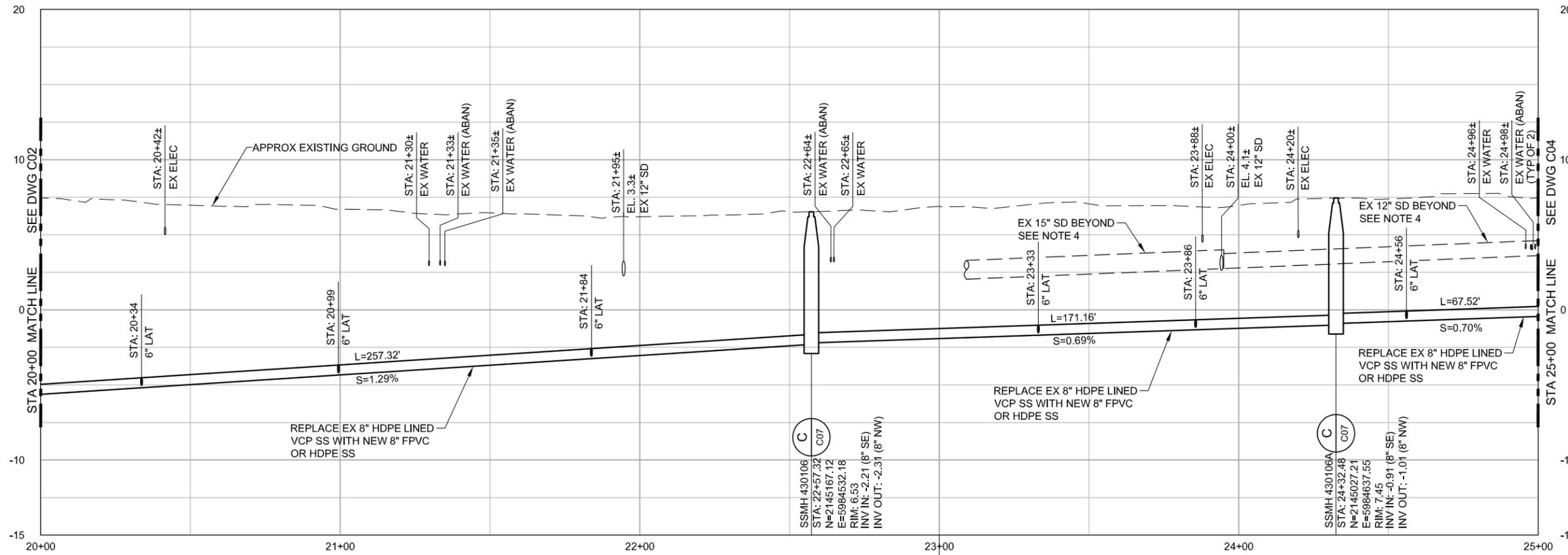
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LAST SAVED BY: bhwms



PLAN SCALE: 1"=20'

- NOTES:
- SEE DWG G02 FOR GENERAL NOTES.
 - ABANDON SEWER IN PLACE. PLUG ENDS AND FILL ANY PIPE NOT REMOVED BY CONSTRUCTION WITH CLSM OR LDCCF BETWEEN SSMH 430104A AND SSMH 430110.
 - REMOVE AND DISPOSE OF EXIST SSMH AS REQ'D FOR CONSTRUCTION. REPLACE SURVEY MONUMENT.
 - AT CONTRACTOR'S OPTION AND RISK, CONTRACTOR MAY ELECT TO REPLACE 15" AND 12" SD IN LIEU OF PROTECTING IN PLACE.
 - REPLACE EXISTING MONUMENT NEAR STA 22+15.



PROFILE HORIZ SCALE: 1"=20' VERT SCALE: 1"=4' FILE: X45402-0902UTIL

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED: JI/JES
 DRAWN: BH
 CHECKED: AP
 DATE: APRIL 2016
 PROJECT ENGINEER:

PROJECT MANAGER: WILL E. STANKEL, No. 51804, CIVIL ENGINEER, STATE OF CALIFORNIA
 PRINCIPAL: RICK L. ORAM, No. 48890, CIVIL ENGINEER, STATE OF CALIFORNIA



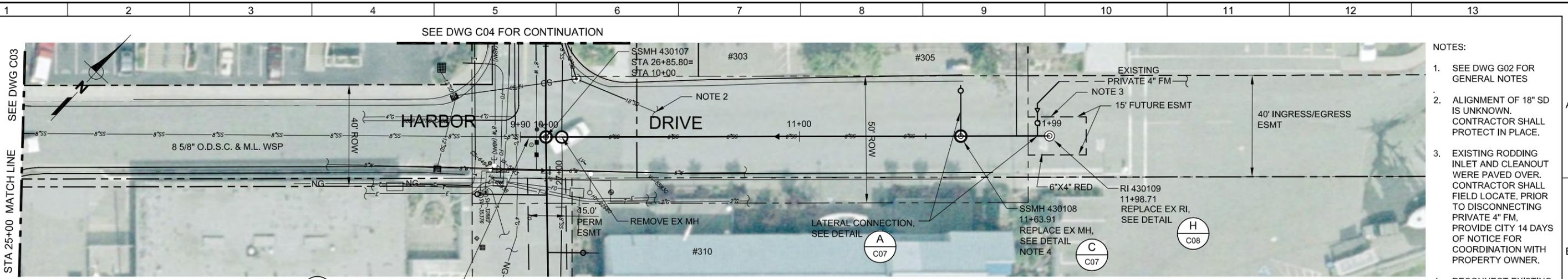
CITY OF SAUSALITO
 GATE 5 ROAD SEWER REPLACEMENT
 GATE 5 ROAD - PLAN & PROFILE
 STA 20+00 TO 25+00

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
 JOB NO.: 9852A10_003
 DRAWING NO.: C03
 SHEET NO.: 6 OF 11

Plot Date: 4/21/2016 4:19:39 PM

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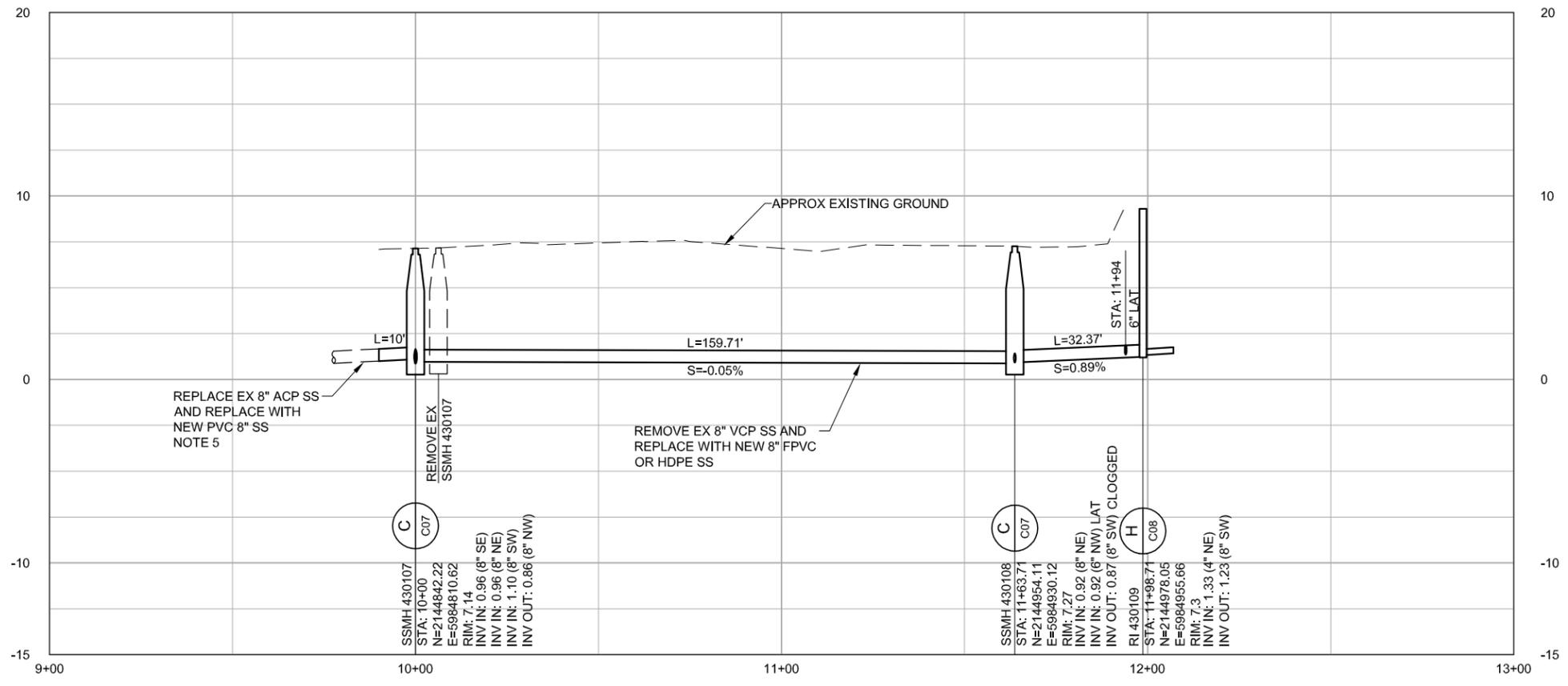
LAST SAVED BY: bhwms



G
C08
10' OF NEW 8" PVC OR HDPE
SEWER
CONNECT TO EXIST SEWER

PLAN
SCALE: 1"=20'

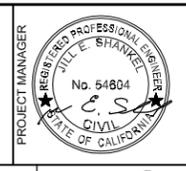
- NOTES:
- SEE DWG G02 FOR GENERAL NOTES
 - ALIGNMENT OF 18" SD IS UNKNOWN. CONTRACTOR SHALL PROTECT IN PLACE.
 - EXISTING RODDING INLET AND CLEANOUT WERE PAVED OVER. CONTRACTOR SHALL FIELD LOCATE. PRIOR TO DISCONNECTING PRIVATE 4" FM, PROVIDE CITY 14 DAYS OF NOTICE FOR COORDINATION WITH PROPERTY OWNER.
 - RECONNECT EXISTING 6" PRIVATE LATERAL.
 - CONTRACTOR SHALL BAG ACP AND DELIVER TO OWNER FOR DISPOSAL.



PROFILE
HORIZ SCALE: 1"=20'
VERT SCALE: 1"=4'
FILE: X45402-0902UTIL

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED JI/JES	PROJECT ENGINEER
DRAWN BH	
CHECKED AP	
DATE APRIL 2016	



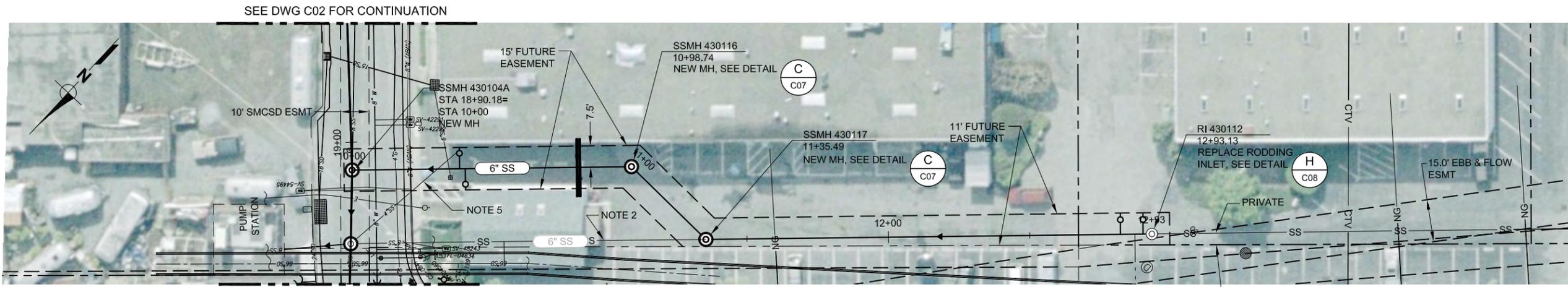
CITY OF SAUSALITO
GATE 5 ROAD SEWER REPLACEMENT
HARBOR DRIVE - PLAN & PROFILE
STA 10+00 TO 11+98.71

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 9852A.10_003
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. C05
	SHEET NO. 8 OF 11

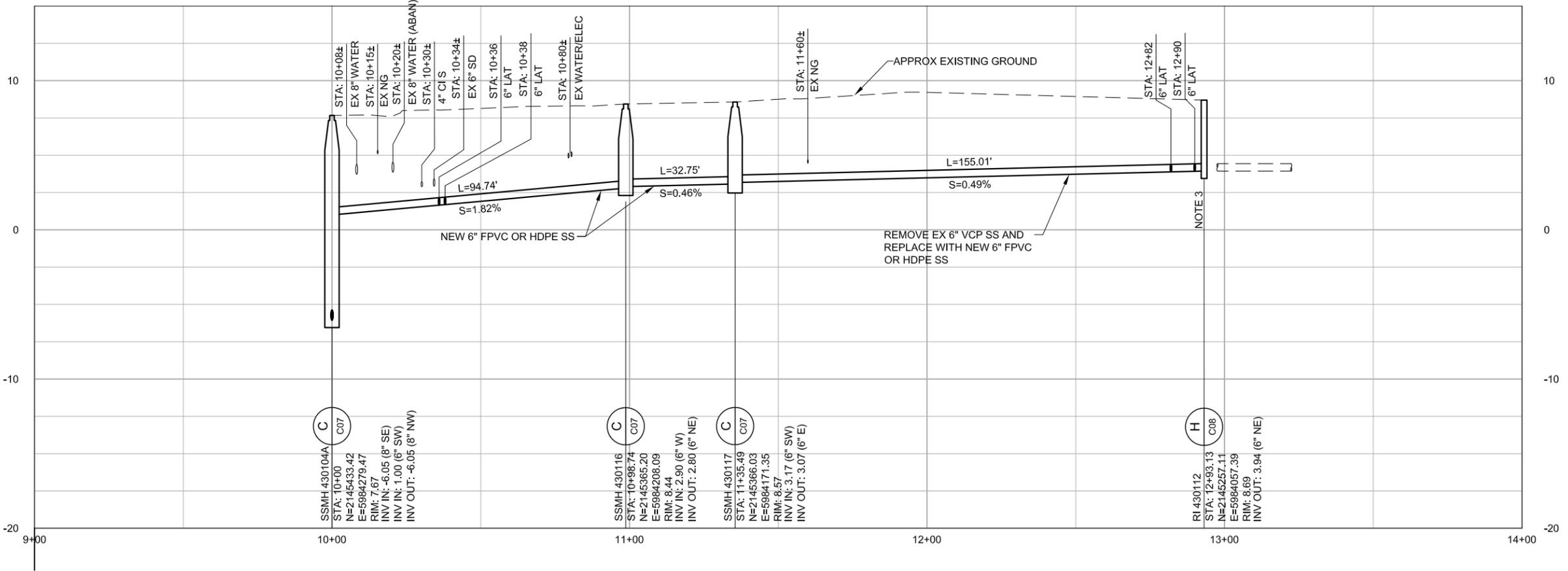
Plot Date: 4/22/2016 1:04:37 PM

PROJECT NO. 9852A10_003 FILE NAME: 45402-0902-C01-C06.dwg

LAST SAVED BY: bhwms



- NOTES:
- SEE DWG G02 FOR GENERAL NOTES.
 - ABANDON EX 6" SS IN PLACE, PLUG END AND FILL WITH CLSM OR LDCCF BETWEEN SSMH 430104 AND SSMH 430117.
 - CONNECT CO AT STA 12+90 TO EXIST 6" PRIVATE LATERAL. DO NOT CONNECT SEWER STRAIGHT INTO RODDING INLET.
 - PRIVATE WATER AND ELECTRIC LINES RUN BETWEEN BUILDINGS. CONTRACTOR SHALL FIELD LOCATE IN ADVANCE OF CONSTRUCTION.
 - 4" CIP SEWER LATERAL SHALL BE ABANDONED AND FILLED WITH CLSM OR LDCCF AFTER FLOW HAS BEEN DIVERTED TO NEW 6" SS.



REV	DATE	BY	DESCRIPTION
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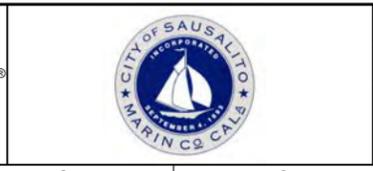
DESIGNED JIWES	PROJECT ENGINEER
DRAWN BH	
CHECKED AP	
DATE APRIL 2016	

PROJECT MANAGER

REGISTERED PROFESSIONAL ENGINEER
JILL E. SHANKEL
No. 54604
CIVIL
STATE OF CALIFORNIA

PRINCIPAL

REGISTERED PROFESSIONAL ENGINEER
RICK L. CHAM
No. 48899
CIVIL
STATE OF CALIFORNIA



CITY OF SAUSALITO

GATE 5 ROAD SEWER REPLACEMENT

COLOMA STREET - PLAN & PROFILE

STA 10+00 TO 12+93.13

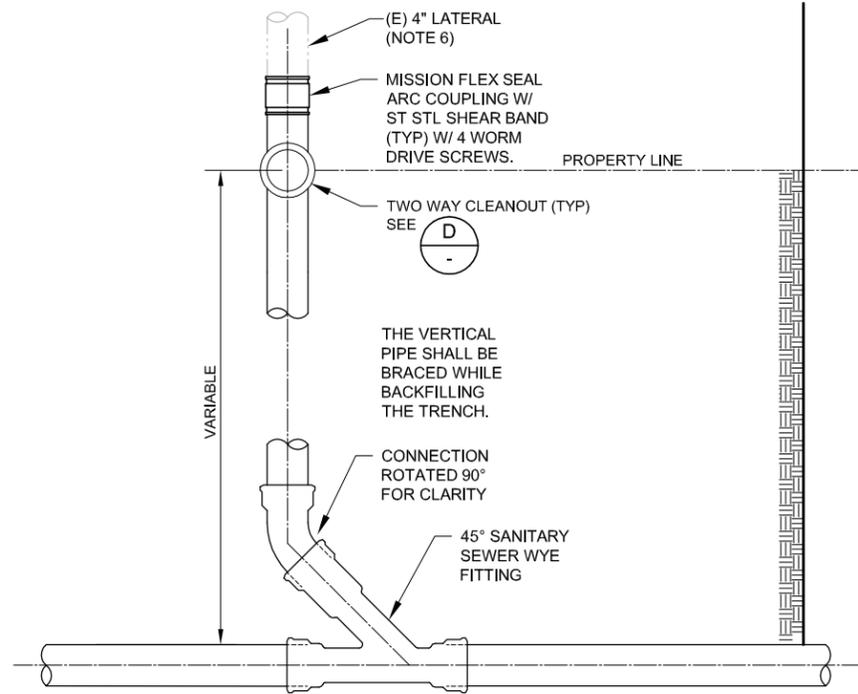
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BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. C06
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 9 OF 11

Plot Date: 4/21/2016 4:22:18 PM

FILE NAME: 45402-0902-C07-C08.dwg

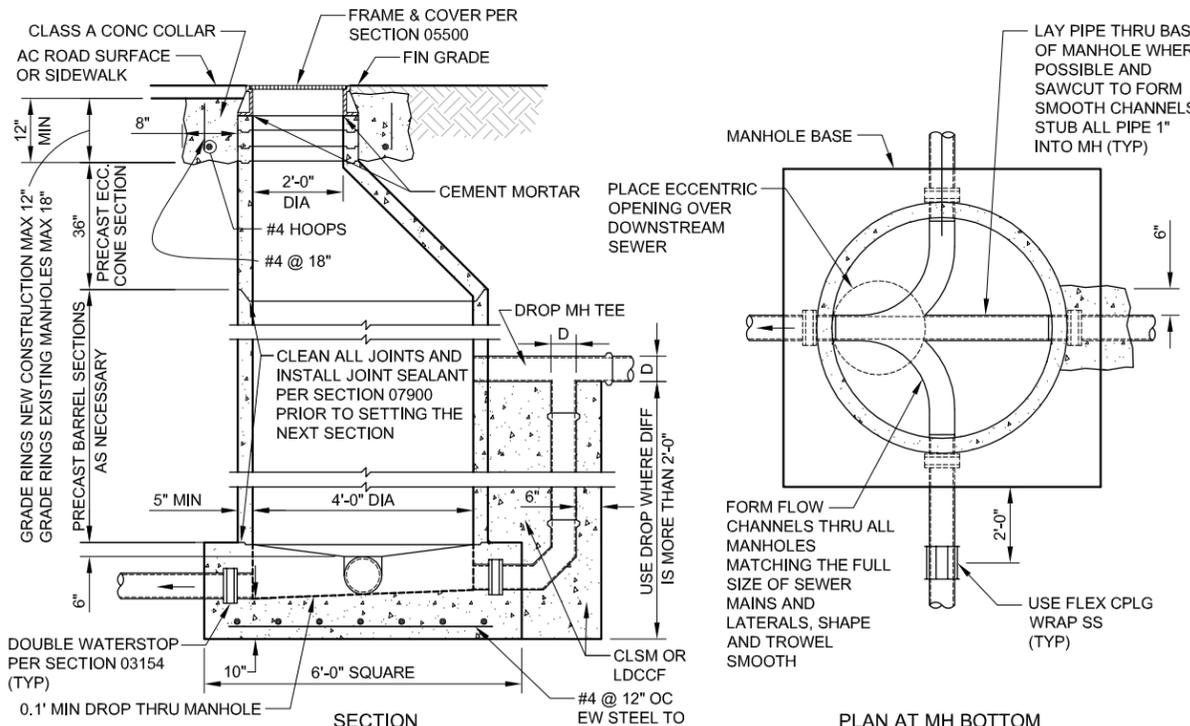
PROJECT NO. 9852A.10_007

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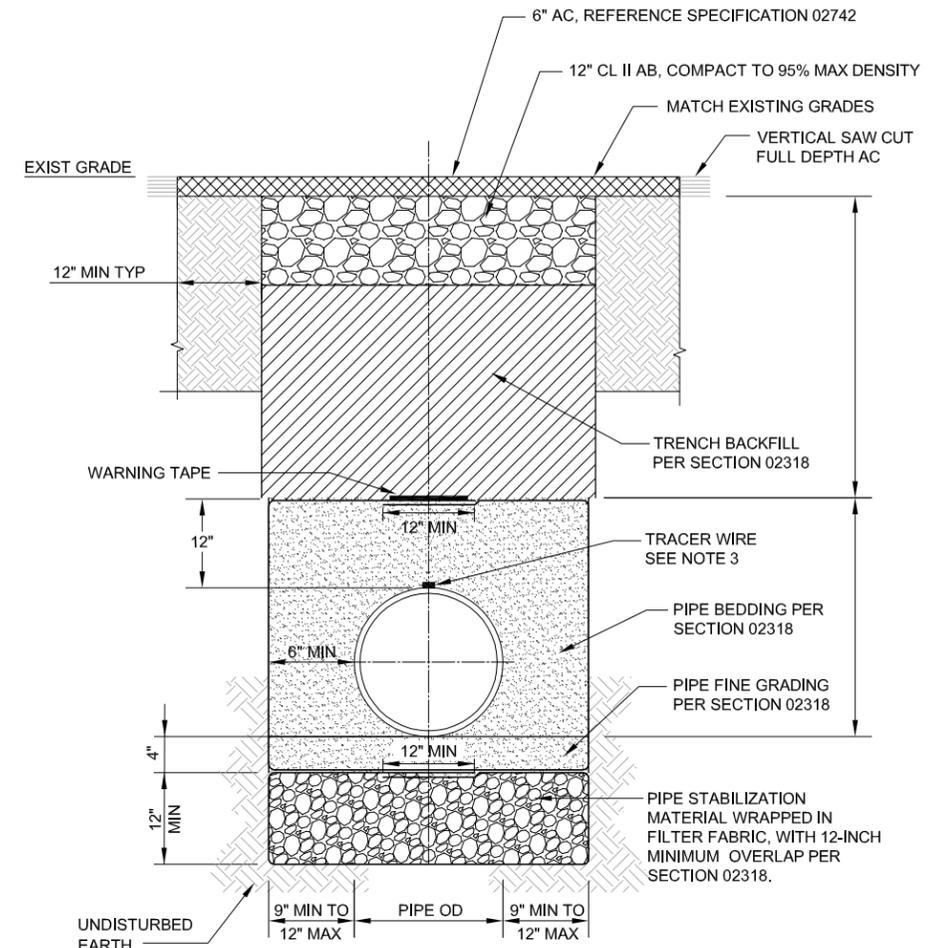


- LATERAL CONNECTION NOTES:**
1. EXTEND PORTION OF NEW LATERAL AS REQUIRED TO CONNECT TO EXISTING LATERAL AT SOUND PIPE.
 2. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE COMPRESSION TYPE, UNLESS NOTED OTHERWISE IN PIPE SCHEDULE.
 3. LATERAL PIPE AND FITTINGS SHALL MATCH SAME MATERIAL AND CLASS AS MAIN SEWER.
 4. EXISTING LATERAL SHALL BE CONNECTED TO SEWER MAIN WITH NEW LATERAL.
 5. MAXIMUM ALLOWABLE BENDS ALONG LATERAL ARE 22.5°.
 6. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER PIPE MATERIAL AND SIZE PRIOR TO PURCHASE OF COUPLING ADAPTERS.
 7. DRAINAGE SLOPE WILL BE A MINIMUM OF 2%.

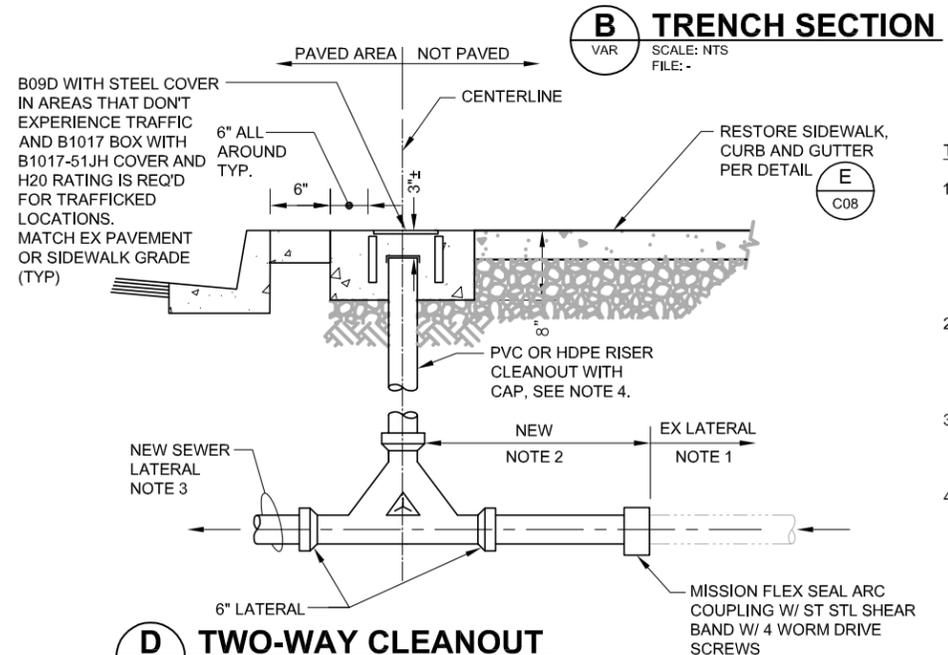
A TYPICAL LATERAL RECONNECTION TO LOWER SEWER
 VAR SCALE: NTS FILE: -



- TYPICAL TRENCH NOTES:**
1. AT THE DIRECTION OF THE CONSTRUCTION MANAGER, SURFACE IMPROVEMENTS UNDERMINED BY LOSS OF UNDERLYING MATERIAL DUE TO CONTRACTOR'S WORK SHALL BE REMOVED, THE VOID FILLED AND COMPACTED WITH APPROVED MATERIAL, AND THE SURFACE RESTORED TO PRECONSTRUCTION CONDITION AT NO ADDITIONAL COST TO OWNER.
 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.



1. MANHOLE BASE SHALL BE LOW DENSITY CELLULAR CONCRETE AND SHALL BE POURED AGAINST UNDISTURBED SOIL.
2. PRECAST MANHOLE SECTIONS PER SECTION 02084.
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 SPECIFICALLY APPROVED BY THE CITY.
6. COMPACT BACKFILL MATERIAL TO 90% RELATIVE COMPACTION. WITHIN 2' 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 OR HDPE PIPE.
8. CLEAN AND COAT INTERIOR OF PRECAST MANHOLE SECTIONS PER SECTION 02084. WRAP EXTERIOR OF MANHOLE FRAME, GRADE RINGS, AND TOP CONE JOINT WITH HEAT SHRINK MEMBRANE PER SECTION 07900.



- TWO-WAY CLEANOUT NOTES:**
1. CONTRACTOR TO VERIFY SIZE AND MATERIAL OF EX SEWER LATERAL AND PROVIDE ALL FITTINGS NECESSARY TO INSTALL NEW CLEANOUT AND CONNECT NEW SEWER.
 2. ACTUAL LENGTH OF LATERAL TO BE DETERMINED IN THE FIELD. CONTRACTOR SHALL ASSUME 20' LENGTH FOR BID.
 3. LATERAL TRENCH AND EXCAVATION SHALL BE RESTORED PER DETAIL B/C07.
 4. CAP CLEANOUT WITH JONES STEPHENS CORPORATION PART NO S62-304 OR EQUAL SEWER POPPER RELIEF VALVE WITH ADAPTER.

D TWO-WAY CLEANOUT
 VAR SCALE: NTS FILE: -

C ECCENTRIC MANHOLE
 VAR SCALE: NTS FILE: -

B TRENCH SECTION
 VAR SCALE: NTS FILE: -

REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			

DESIGNED	JH/JES
DRAWN	BH
CHECKED	AP
DATE	APRIL 2016
PROJECT ENGINEER	

PROJECT MANAGER: WILL E. STANKEL, No. 54804, CIVIL ENGINEER, STATE OF CALIFORNIA

PRINCIPAL: Erik S. Chao, No. 48892, CIVIL ENGINEER, STATE OF CALIFORNIA



CITY OF SAUSALITO
 GATE 5 ROAD SEWER REPLACEMENT
 DETAILS 1

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

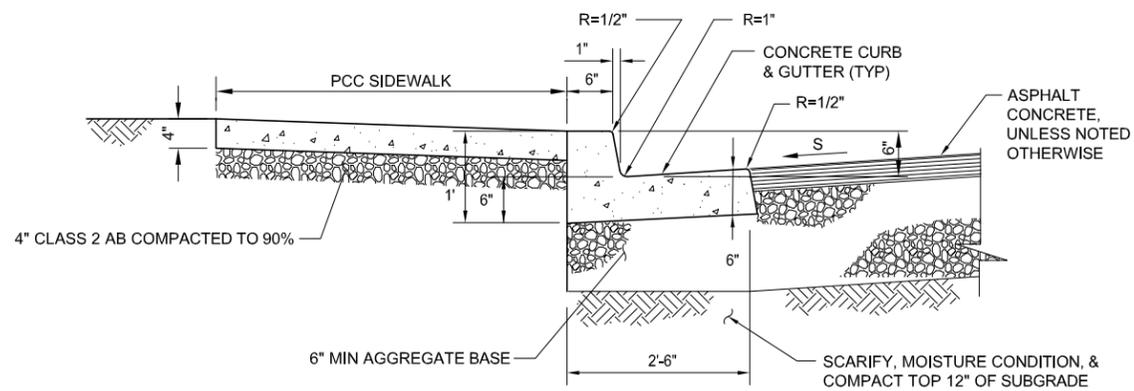
JOB NO. 9852A.10_003
 DRAWING NO. C07
 SHEET NO. 10 OF 11

Plot Date: 4/21/2016 4:22:55 PM

FILE NAME: 45402-0902-C07-C08.dwg

PROJECT NO. 9852A10_007

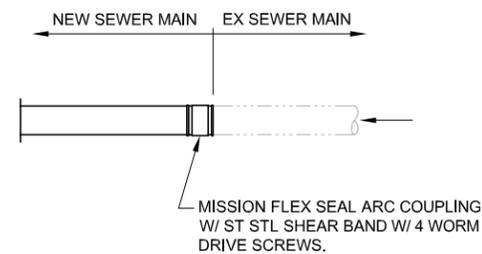
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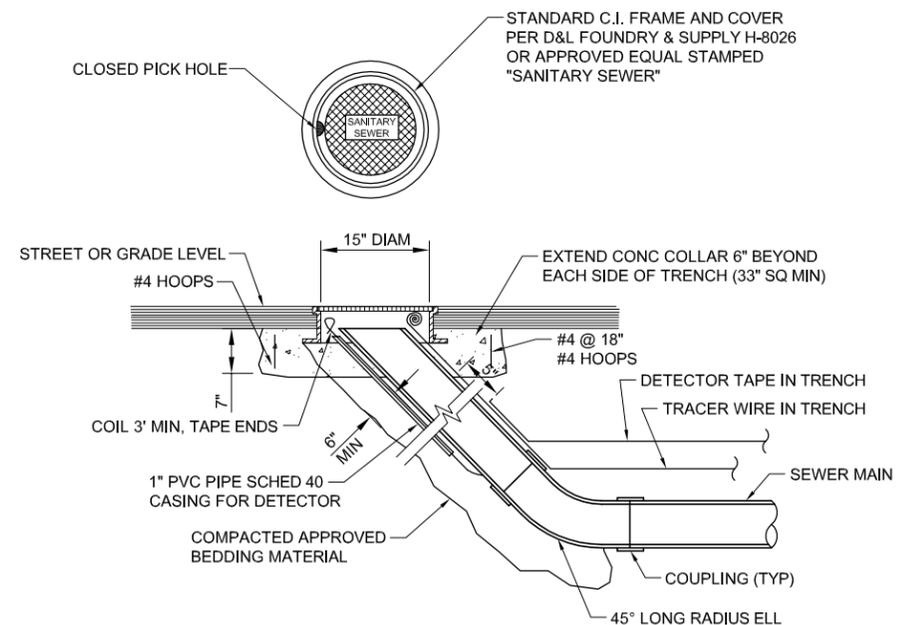
1. REPAIR CURB, GUTTER AND SIDEWALK DISTURBED BY THE WORK PER MARIN COUNTY UNIFORM CONSTRUCTION STANDARD DWGS 100 AND 105 AND PER ENCROACHMENT PERMIT REQTS. SEE APPENDICES FOR DETAILS.
2. MATCH EXISTING SLOPE OF PAVEMENT AND GUTTER.
3. EXPANSION JOINTS PER SECTION 03150.

E SIDEWALK, CURB & GUTTER
 VAR SCALE: NTS FILE: -



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

G SEWER MAIN CONNECTION
 VAR SCALE: NTS FILE: -



H RODDING INLET
 VAR SCALE: NTS FILE: -

REV	DATE	BY	DESCRIPTION

DESIGNED JI/JES	PROJECT ENGINEER
DRAWN BH	
CHECKED AP	
DATE APRIL 2016	



CITY OF SAUSALITO
 GATE 5 ROAD SEWER REPLACEMENT
 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. 9852A.10_003 DRAWING NO. C08 SHEET NO. 11 OF 11
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