

WATER AND SEWER GROUP 966

CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-UTILITIES.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PLEASE NOTE THAT NESTING BIRDS MAY BE PRESENT DURING CONSTRUCTION, AND ARE PROTECTED UNDER U.S. AND STATE LAW INCLUDING THE FEDERAL MIGRATORY BIRD TREATY ACT AND IN PARTICULAR, CA LAW - FISH AND GAME CODE - SECTION 3503.
- FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (16 INCHES AND LARGER), CONTACT THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR AT (619) 527-7438. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 16 INCHES), CONTACT THE CITY'S WATER OPERATIONS DISTRICT MANAGER AT (619) 527-3945.

WORK TO BE DONE

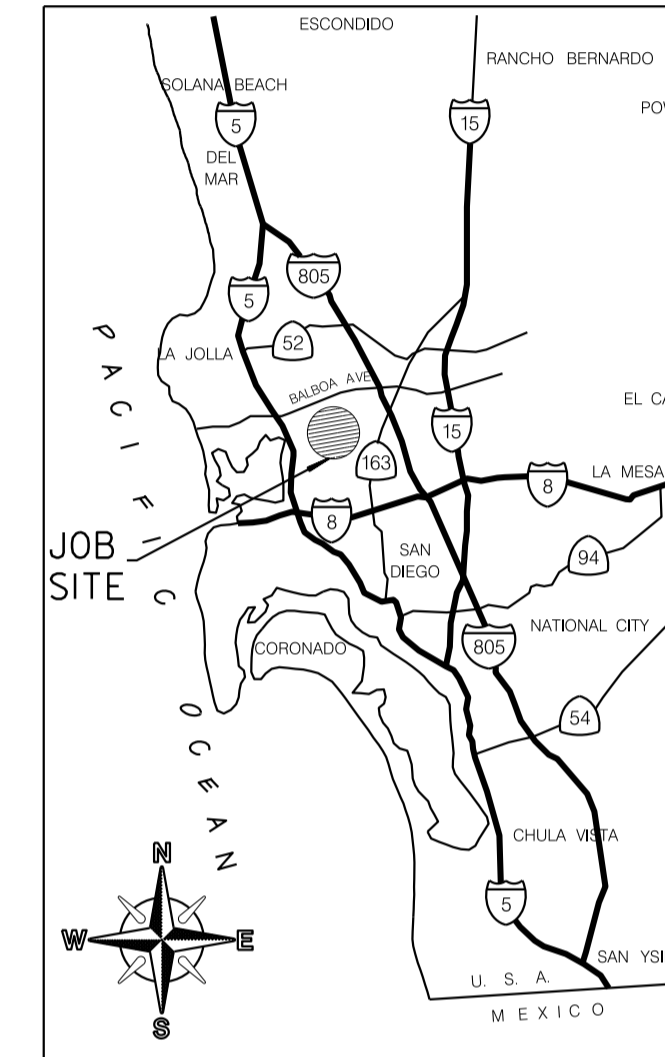
CONSTRUCTION OF WATER AND SEWER GROUP JOB 966: SEWER PORTION CONSISTS OF THE REHABILITATION OF 477 LINEAR FEET OF EXISTING 12-INCH SEWER LINES AND MANHOLES, THE REPLACEMENT OF 3,462 LINEAR FEET OF 8" & 12" SEWER MAINS. WATER PORTION CONSISTS OF THE REPLACEMENT OF 5,076 LINEAR FEET OF 4", 8" AND 16" WATER MAIN, WATER APPURTENANCES, FIRE HYDRANTS, TRENCH SHORING, PAVEMENT RESURFACING, TRENCH REPAIR, CURB RAMPS, ABANDONED EXISTING PRESSURE REGULATION STATION, AND ALL OTHER WORK AND APPURTENANCES IN ACCORDANCE WITH THESE SPECIFICATION AND DRAWING NUMBERED 37929-01-D TO 37929-20-D

SHEET INDEX

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
2	G-2	KEY MAP				
WATER						
3	C-1	VIA ALCAZAR	STA 1+00.00 TO STA 7+00.00	16"		600.00
		VIA AMALIA	STA 1+00.00 TO STA 2+43.71	8"		143.71
4	C-2	VIA ALCAZAR	STA 7+00.00 TO STA 13+00.00	16"		600.00
		VIA AMATA	STA 1+00.00 TO STA 2+29.46	8"		129.46
5	C-3	VIA ARCILLA	STA 13+00.00 TO STA 19+00.00	16"		600.00
6	C-4	VIA ARCILLA & MT ACADIA BL	STA 19+00.00 TO STA 24+50.00	16"		550.00
7	C-5	MT ACADIA BL	STA 24+50.00 TO STA 32+58.35	16"		808.35
8	C-6	BURFORD ST	STA 1+00.00 TO STA 5+50.00	8"		450.00
9	C-7	BURFORD ST	STA 5+50.00 TO STA 12+11.38	8"		661.38
10	C-8	EASEMENT MAP 6120 AND VIA ALCAZAR	STA 1+00.00 TO STA 6+32.93	16"		532.92
SEWER						
11	C-9	EASEMENT MAP 6120 AND VIA ALCAZAR	STA 1+00.00 TO STA 8+00.00	12"		700.00
12	C-10	VIA ALCAZAR	STA 8+00.00 TO STA 12+00.00	12"		400.00
		VIA AMALIA	STA 1+00.00 TO STA 2+51.48	8"		151.48
13	C-11	VIA ALCAZAR	STA 12+00.00 TO STA 18+00.00	12"		600.00
		VIA AMATA	STA 1+00.00 TO STA 2+43.00	8"		143.00
14	C-12	VIA ARCILLA	STA 18+00.00 TO STA 24+00.00	12"		600.00
15	C-13	VIA ARCILLA & MT ACADIA BL	STA 24+00.00 TO STA 30+50.00	12"		650.00
16	C-14	MT ACADIA BL	STA 30+50.00 TO STA 37+44.85	12"		694.85
				TOTAL WATER		5,075.82
				TOTAL SEWER		3,939.33
17	G-3	STREET RESURFACING				
18	G-4	CURB RAMP LOCATION				
19	G-5	CITY FORCES				
20	G-6	SEWER AND WATER ABANDONMENT				

DISCIPLINE CODE

G GENERAL
C CIVIL



VICINITY MAP
NOT TO SCALE

MONUMENTATION SURVEY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE CITY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

EXISTING STRUCTURES

EX WATER MAIN & VALVES	-----●-----
EX WATER METER	-----□-----
EX FIRE HYDRANT	○-----●
EX SEWER MAIN & MANHOLES	-----○-----
EX DRAINS	=====
EX PAVEMENT (PROFILE)	//////
EX GROUND LINE (PROFILE)	=====
EX TRAFFIC SIGNAL	○X○
EX STREET LIGHT	+ SL
GAS MAIN	-----●-----
ELEC. COND., TEL. COND., CATV	---E---T---C---
RAILROAD, TROLLEY TRACKS	
FUEL LINE	-----F-----

FIELD DATA

BENCHMARK: NWBP MT ACADIA AVE AND VIA BELLO
ELEV. 301.370 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK
FIELD NOTES: BASIS OF BEARINGS/COORDINATES:
THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING GPS 17 AND GPS 918 AS SHOWN ON R.O.F S. 14492 I.E. S 58° 44' 12" W, NAD 83 FEET, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH A CALVRS BASE STATION BROADCAST OF 2013 AND CONSTRAINING TO GPS 17, GPS 918 AND CHECKING GPS 935.
DATE: MEAN SEA LEVEL NGVD 29 AS SHOWN IN CITY OF SAN DIEGO BENCH BOOK
STREETS REQUIRING 12" TRENCH CAP: MT ACADIA BLVD

LEGEND

IMPROVEMENTS	REFERENCE	SYMBOL
TRENCH RESURFACING	SDG-107, SDG-108	---
SEWER MAIN	SDS-101, SDM-105, SDS-110 (TYPE C)	---
SEWER MANHOLE/PVC LINED	SDS-106, SDS-107, SDS-108, SDM-113, SDS-120, M-3, SM-07	○
REHAB. EX. SEWER MANHOLE	SEE PLANS & SPECS	○ REHAB
SEWER MAIN REHAB.	SEE PLANS & SPECS	○
4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED	SDS-102, SDS-103, SDS-104, SDS-105, SDS-110 (TYPE C), SDS-118	P.L. --- S
SEWER LATERAL CONNECTION	SEE PLANS & SPECS	P.L. --- C
REHAB SEWER LATERAL (LINED) WITH C.O.	SEE PLANS & SPECS	P.L. --- L
PIPE SUPPORT FOR UNDERCUT AC WATER MAIN	SDW-162	---
CONCRETE ENCASEMENT	SDS-112	---
ABANDON EX MANHOLE	SM-08	---
SLURRY FILL ABANDONED SEWER MAIN	SEE PLANS & SPECS	---
CUTTING AND PLUGGING ABANDONED WATER MAIN	WP-03	---
SURVEY MONUMENT	M-10, M-10A, M-10B	△
STRAIGHT HEADWALL TYPE A	D-30	---
CUTOFF WALL	SDS-115	---
WATER MAIN & APPURTENANCES	SDW-110, SDM-105, SDW-151, SDW-161	---
VALVES WITH CAPS AND WELLS	SDW-109, SDW-152, SDW-153, WV-05	---
CROSS GUTTER	SDG-157	---
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDW-104, SDW-109, SDM-105, SDW-152, SDW-153	PROPOSED WATER
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDM-105, SDW-149, SDW-150, WS-03	PROPOSED WATER
WATER SERVICE TRANSFER	SDW-149, SDW-150	PROPOSED WATER
BLOW-OFF ASSEMBLY	SDW-106, SDW-143, SDW-144, SDW-145, SDW-146, SDM-105, WB-05,	B.O.
AIR & VACUUM VALVE	SDW-117, SDM-105, SDW-158, SDW-159, SDW-160	PROPOSED WATER
HIGHLIGHTING BY CONTRACTOR	SDW-170, SDW-171, SDW-172, SDW-173, SDW-174 IF APPLICABLE	

G-1

PLANS FOR THE CONSTRUCTION OF WATER AND SEWER GROUP 966 COVER SHEET

SPEC. NO. 1483	CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 01 OF 20 SHEETS	WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael C. Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 DATE	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER MICHAEL C. NINH No. C-73118 Exp. 12-31-18 CIVIL STATE OF CALIFORNIA	DESIGNED BY: JAMAL SHERZAI PROJECT ENGINEER	DATE FILMED: 230-1707 CCS27 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED	6274318-1872737 CCS83 COORDINATE
	DATE COMPLETED	37929-01-D

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

ABBREVIATIONS

ABAND	ABANDON	EL, ELEV	ELEVATION	OVHD	OVER HEAD
ABAND'D	ABANDONED	ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE
AC	ASBESTOS CEMENT PIPE	EX, EXIST	EXISTING	PROP	PROPOSED
AHD	AHEAD	E/O	EAST OF	RED	REDUCER
ASSY	ASSEMBLY	F	FLANGE	RT	RIGHT
BFV	BUTTERFLY VALVE	FH	FIRE HYDRANT	S	SURVEY LINE
BK	BACK	FS	FIRE SERVICE	SDA&E	SAN DIEGO ARIZONA & EASTERN RAILROAD
BTWN	BETWEEN	GV	GATE VALVE	SDTI	SAN DIEGO TROLLEY INC.
CATV	CABLE TV	HDPE	HIGH-DENSITY POLYETHYLENE	SO	STUB OUT
CI	CAST IRON PIPE	HP	HIGH PRESSURE	S/O	SOUTH OF
C	CENTER LINE	IE	INVERT ELEVATION	SWR	SEWER
COND	CONDUIT	LT	LEFT	TEL	TELEPHONE
CONT	CONTINUED	MJ	MECHANICAL JOINT	UNK	UNKNOWN
CONTR	CONTRACTOR	MTS	SAN DIEGO METROPOLITAN	VC	VITRIFIED CLAY PIPE
DB	DIRECT BURIED	TRANSIT	SYSTEM	WM	WATER METER
DI	DUCTILE IRON	MTD	MULTIPLE TELEPHONE DUCT	WTR	WATER
EB	ENCASED BURIED	N/O	NORTH OF	W/O	WEST OF

CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

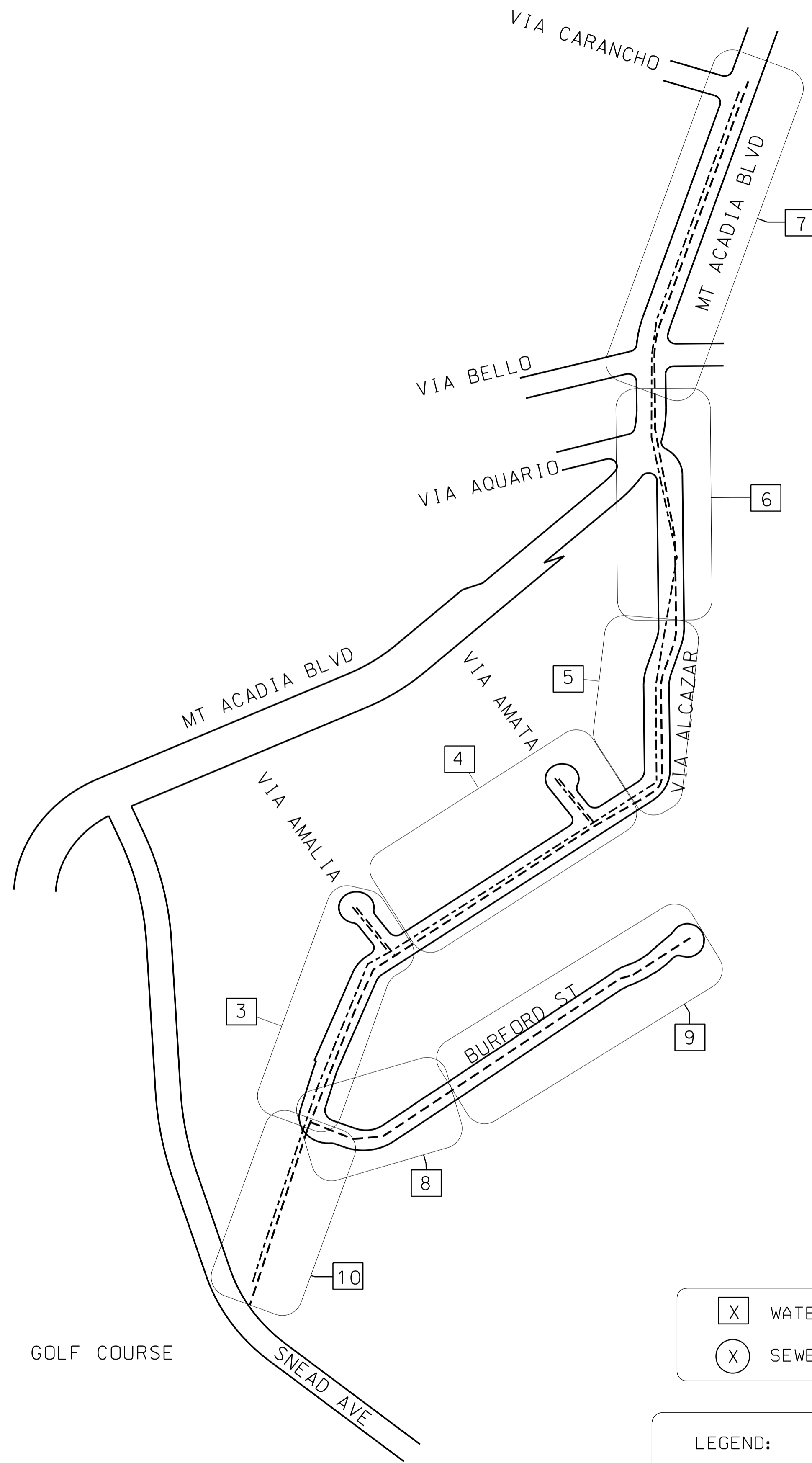
WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

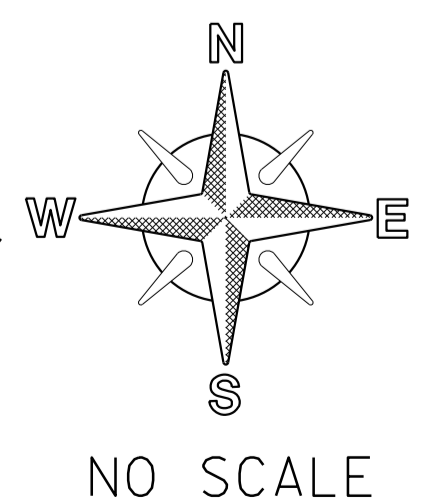
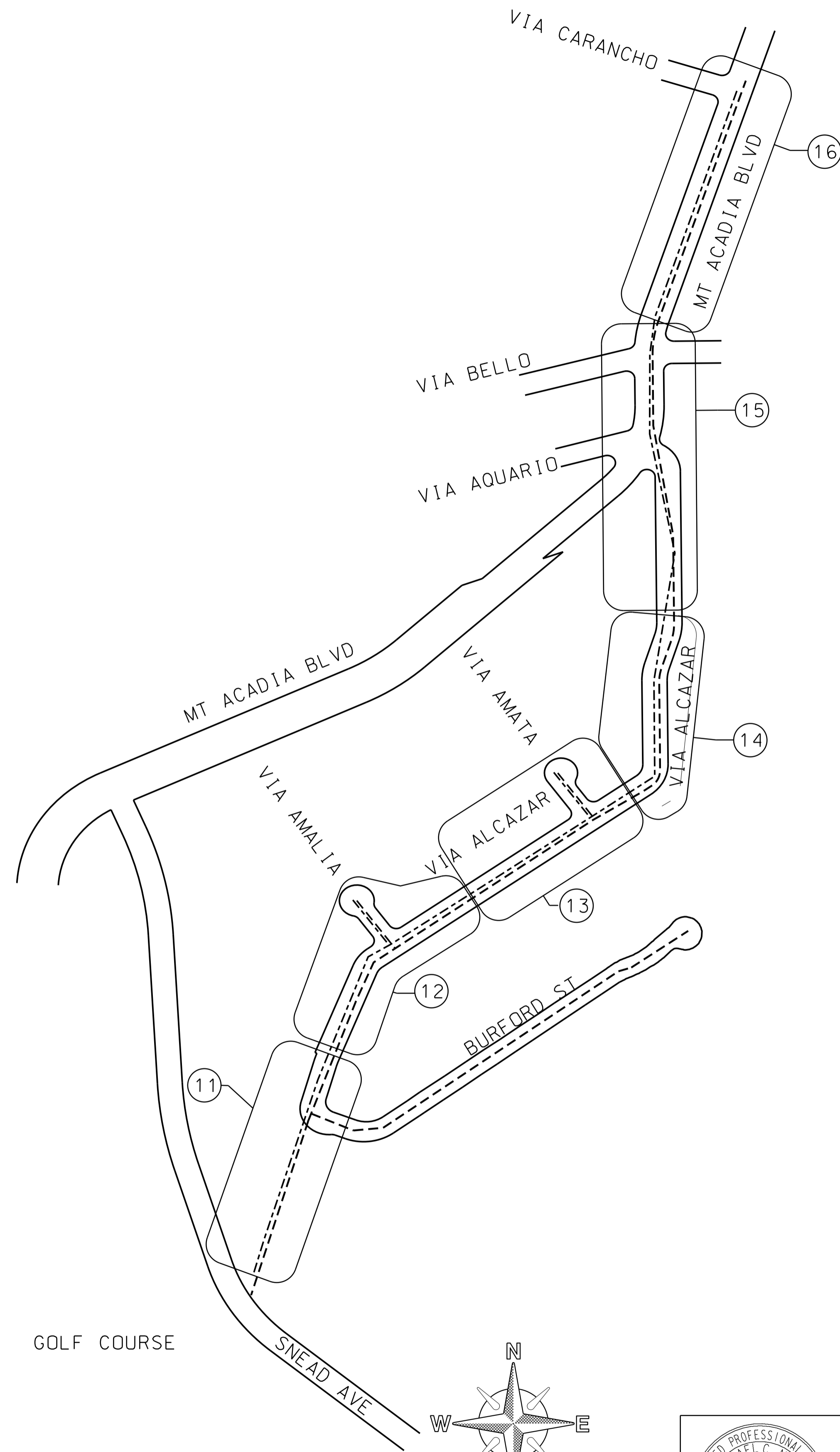
The City of
SAN DIEGO Public Works

WATER AND SEWER GROUP 966



X WATER SHEET NUMBER
X SEWER SHEET NUMBER

LEGEND:
 - - - - - PROPOSED WATER MAIN
 - - - - - PROPOSED SEWER MAIN

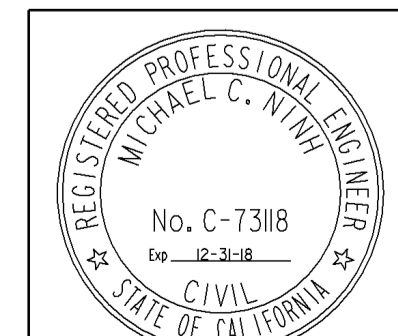


G-2

PLANS FOR THE CONSTRUCTION OF
 WATER AND SEWER GROUP 966
 KEY MAP

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 SHEET 02 OF 20 SHEETS

APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH <small>PRINT DCE NAME</small>	DATE 05/18/2017 <small>RCE#</small>	SUBMITTED BY MARYAM LIAGHAT <small>PROJECT MANAGER</small> CHECKED BY JAMAL SHERZAI <small>PROJECT ENGINEER</small>																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILMED</th> </tr> </thead> <tbody> <tr> <td>ORIGINAL</td> <td>JS/JR</td> <td></td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FILMED	ORIGINAL	JS/JR														230-1707 <small>CCS27 COORDINATE</small> 6274318-1872737 <small>CCS83 COORDINATE</small>	WATER WBS B-12086 SEWER WBS B-12085 37929-02-D
DESCRIPTION	BY	APPROVED	DATE	FILMED																		
ORIGINAL	JS/JR																					
CONTRACTOR INSPECTOR _____		DATE STARTED _____ DATE COMPLETED _____																				

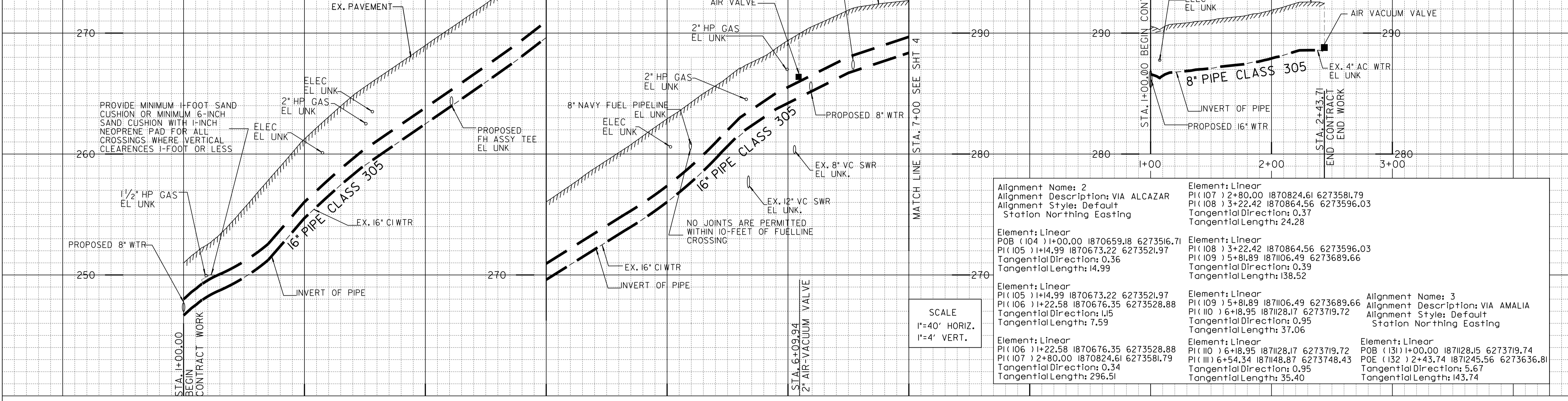


KEY MAP

CAUTION

NAVY FUEL LINE; CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FREIS (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



<p>Alignment Name: 2 Alignment Description: VIA ALCAZAR Alignment Style: Default Station Northing Easting</p>	<p>Element: Linear PI (107) 2+80.00 1870824.61 6273581.79 PI (108) 3+22.42 1870864.56 6273596.03 Tangential Direction: 0.37 Tangential Length: 24.28</p>
<p>Element: Linear POB (104) 1+00.00 1870659.18 6273516.71 PI (105) 1+4.99 1870673.22 6273521.97 Tangential Direction: 0.36 Tangential Length: 14.99</p>	<p>Element: Linear PI (108) 3+22.42 1870864.56 6273596.03 PI (109) 5+81.89 1871106.49 6273689.66 Tangential Direction: 0.39 Tangential Length: 138.52</p>
<p>Element: Linear PI (105) 1+4.99 1870673.22 6273521.97 PI (106) 1+22.58 1870676.35 6273528.88 Tangential Direction: 1.15 Tangential Length: 7.59</p>	<p>Element: Linear PI (109) 5+81.89 1871106.49 6273689.66 PI (110) 6+18.95 1871128.17 6273719.72 Tangential Direction: 0.95 Tangential Length: 37.06</p>
<p>Element: Linear PI (106) 1+22.58 1870676.35 6273528.88 PI (107) 2+80.00 1870824.61 6273581.79 Tangential Direction: 0.34 Tangential Length: 296.51</p>	<p>Element: Linear PI (110) 6+18.95 1871128.17 6273719.72 PI (111) 6+54.34 1871148.87 6273748.43 Tangential Direction: 0.95 Tangential Length: 35.40</p>
	<p>Alignment Name: 3 Alignment Description: VIA AMALIA Alignment Style: Default Station Northing Easting</p>
	<p>Element: Linear POB (131) 1+00.00 1871128.15 6273719.74 PI (132) 2+43.74 1871245.56 6273636.81 Tangential Direction: 5.67 Tangential Length: 143.74</p>

SCALE
1"=40' HORIZ.
1"=4' VERT.

- ① (104) BY CONTRACTOR FURNISH AND INSTALL
STA 1+00.00 (SAME AS STA 6+32.93 SHT 10)
1- 16" X 8" TEE (F)
2- 16" BFV (F, MJ) AHD, BK
1- 8" GV (F, MJ) RT
- ② (105) BY CONTRACTOR FURNISH AND INSTALL
STA 1+14.99
1- 16" 45° BEND (MJ)
- ③ (106) BY CONTRACTOR FURNISH AND INSTALL
STA 1+22.58
1- 16" 45° BEND (MJ)
- ④ (108) BY CONTRACTOR FURNISH AND INSTALL
STA 3+22.42
1- 16" X 6" TEE (MJ, F)
1- 6" FH ASSY AND MARKER

- ④A BY CITY FORCES AHD OF CONTRACTOR
STA 5+77.52
PERMANENT CUT & PLUG
EX. 16" CI WTR, 10' RT
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ⑤ (109) BY CONTRACTOR FURNISH AND INSTALL
STA 5+81.88
1- 16" 45° BEND (MJ)
1- 16" BLIND FLANGE (F) BK
CONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

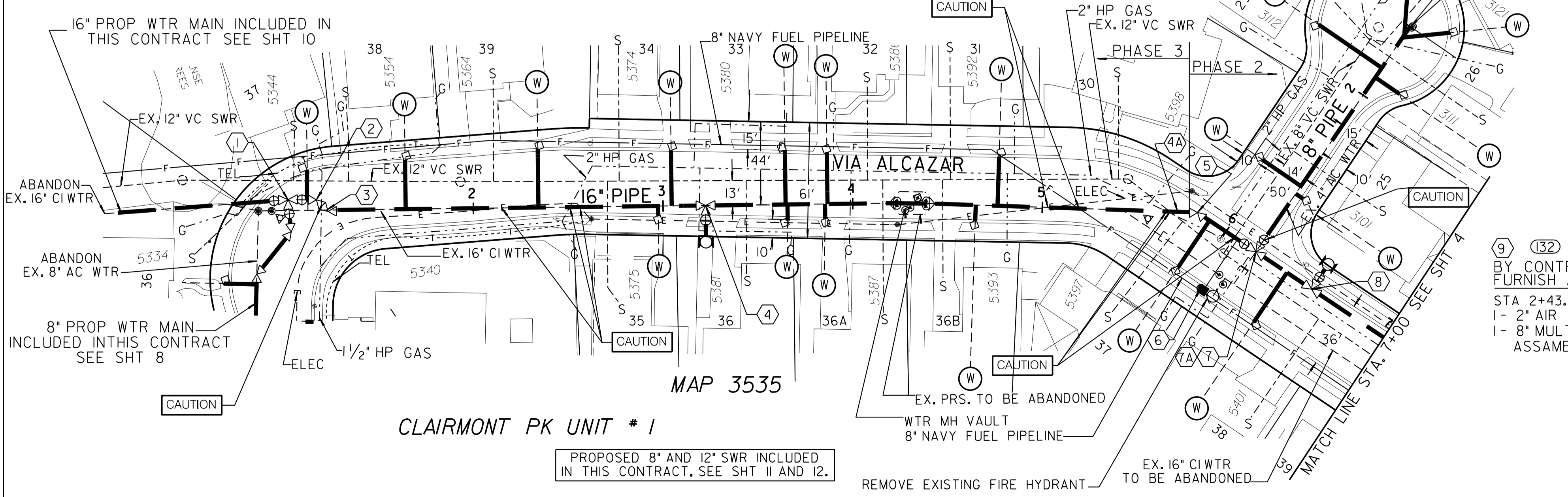
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 5+42	STA. 7+00.00	158

REFERENCE:
WATER: I3015-2-D,
SEWER: 3426-0-D, 3427-0-D
STORM DRAIN:
GAS: 48252.37, 3628564.24
ELECTRIC: I5825-I19045, I5825-I19050
CABLE TV:
TELEPHONE: I1105b.dgn

IMPROVEMENTS:
100' SCALE/FIELD BOOK: E14S
THOMAS BROS.: I24866
HGL: 559

RETIREMENTS:
16" CI WTR - 600' - 1957
4" AC WTR - 143.71' - 1957
1" SERVICE - 19 - MATERIAL - 1957
FH (2-PORT) - 1

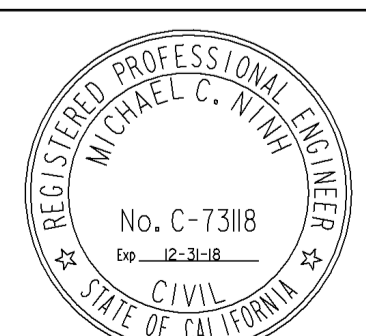
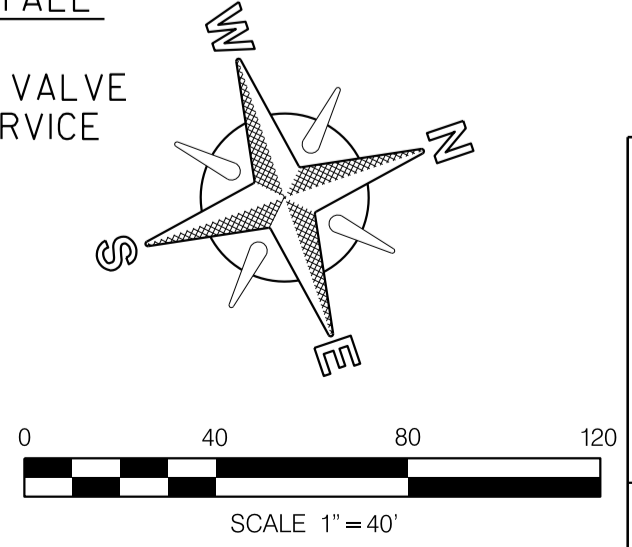


- ⑥ (110) BY CONTRACTOR FURNISH AND INSTALL
STA 6+09.94
1- 2" AIR-VACUUM VALVE
- ⑦ (110) BY CONTRACTOR FURNISH AND INSTALL
STA 6+18.94
1- 16" X 8" TEE (F)
1- 16" BFV (F, MJ) BK
1- 8" GV (F, MJ) LT
- ⑨ (132) BY CONTRACTOR FURNISH AND INSTALL
STA 2+43.71
1- 2" AIR VACUUM VALVE
1- 8" MULTIPLE SERVICE ASSMBLY

- ④A (110) BY CITY FORCES AHD OF MAINLINE CONSTRUCTION FURNISH AND INSTALL
STA 6+18.94
CUT AND PLUG
EX. 4" AC WTR, 10' RT
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- ⑧ (111) BY CONTRACTOR FURNISH AND INSTALL
STA 6+54.34
1- 16" X 6" TEE (MJ, F)
1- 6" FH 3 PORT ASSY AND MARKER

CLAIMONT PK UNIT # 1

PROPOSED 8" AND 12" SWR INCLUDED IN THIS CONTRACT, SEE SHT II AND 12.



WATER AND SEWER GROUP 966
VIA ALCAZAR AND VIA AMALIA
STA 1+00.00 TO 7+00.00 AND 1+00.00 TO 2+43.71

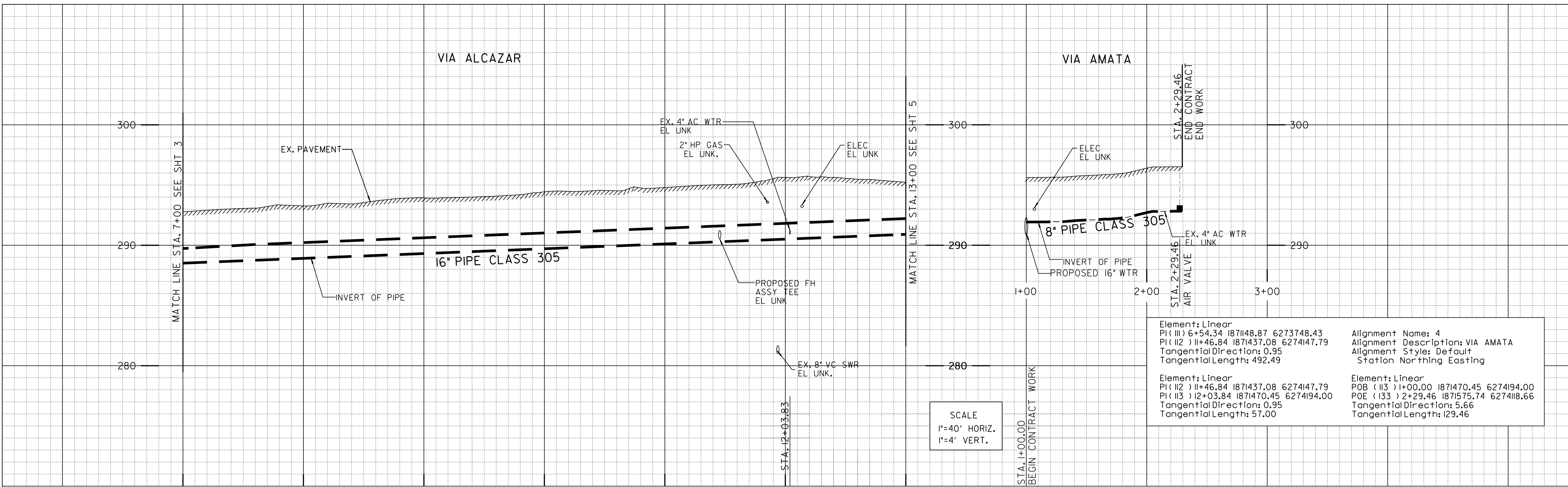
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 03 OF 20 SHEETS

APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE: 05/18/2017 RCE#	WATER WBS: B-12086 SEWER WBS: B-12085
PROJECT MANAGER: MARYAM LIAGHAT	PROJECT ENGINEER: JAMAL SHERZAI	NO. C-73118 CIVIL STATE OF CALIFORNIA
DESCRIPTION: ORIGINAL	BY: JS/JR	APPROVED: []
DATE: []	FILED: []	
DATE STARTED: []	DATE COMPLETED: []	

230-1707
CCS27 COORDINATE
6274318-1872737
CCS83 COORDINATE
37929-03-D

VIA ALCAZAR AND VIA AMALIA

C-1



Element: Linear PI (I1) 6+54.34 1871148.87 6273748.43 PI (I2) 11+46.84 1871437.08 6274147.79 Tangential Direction: 0.95 Tangential Length: 492.49	Alignment Name: 4 Alignment Description: VIA AMATA Alignment Style: Default Station Northing Easting
Element: Linear PI (I2) 11+46.84 1871437.08 6274147.79 PI (I3) 12+03.84 1871470.45 6274194.00 Tangential Direction: 0.95 Tangential Length: 57.00	Element: Linear POB (I3) 1+00.00 1871470.45 6274194.00 POE (I33) 2+29.46 1871575.74 6274118.66 Tangential Direction: 5.66 Tangential Length: 129.46

SCALE
 1"=40' HORIZ.
 1"=4' VERT.

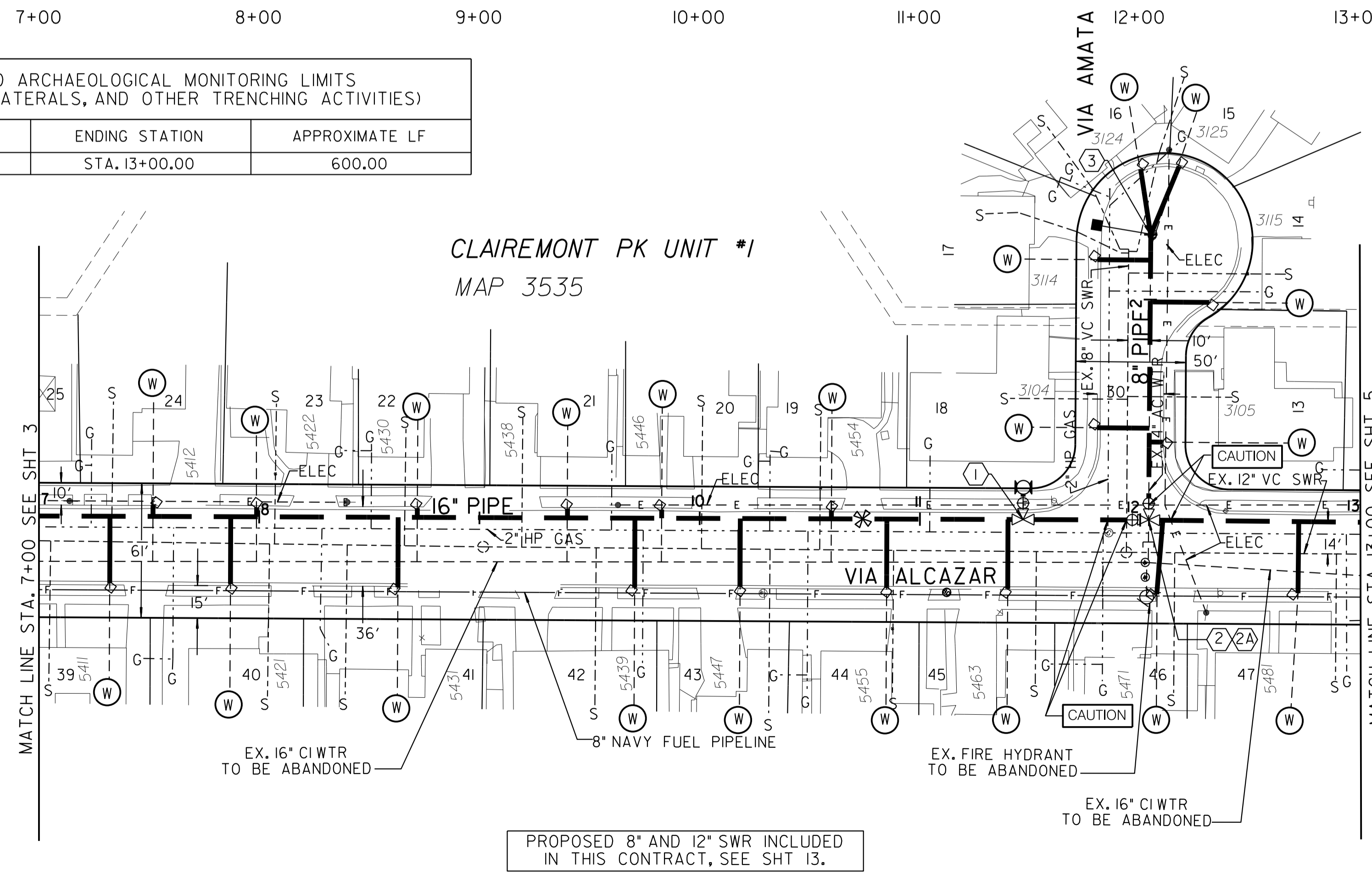
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 7+00.00	STA. 13+00.00	600.00

- ① ⑫
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 11+46.83
 1-16" X 6" TEE (MJ, F)
 1-6" 3-PORT FH ASSY AND MARKER
- ② ⑬
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 12+03.83
 1- 16" X 8" TEE (F)
 1- 16" BFV (F, MJ) BK
 1- 8" GV (F, MJ) LT
- ②A ⑬
 BY CITY FORCES
 AHD OF MAINLINE CONSTRUCTION
 FURNISH AND INSTALL
 STA 12+3.83
 CUT AND PLUG
 EX 4" AC WTR 10' RT
 RECONNECT AFTER NEW
 MAIN HAS BEEN ACCEPTED
- ③ ⑬
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 2+29.46
 1- 2" AIR VACUUM VALVE
 1- 8" MULTIPLE SERVICE
 ASSAMBLY

3' MINIMUM
 DEPTH OF COVER

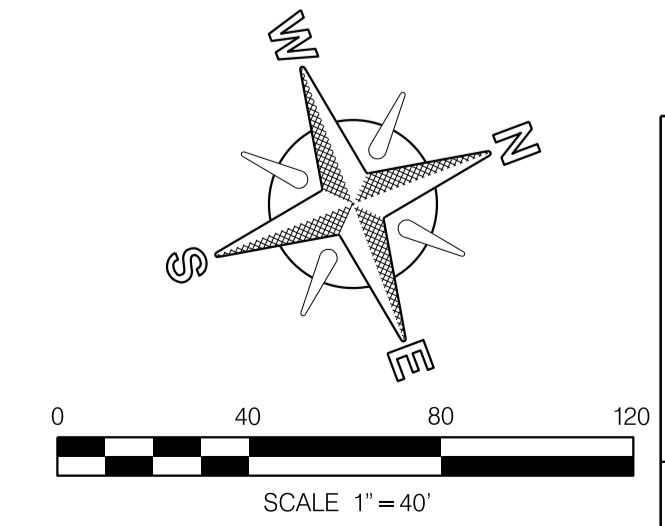
REFERENCE:
 WATER: 13015-2-D, 3432-0-D, 3427-0-D
 SEWER: 3427-0-D, 3432-0-D
 STORM DRAIN:
 GAS: 48269L22, 362874L36
 ELECTRIC: 15832-119055
 CABLE TV:
 TELEPHONE: 11105b.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G6
 HGL: 559

RETIREMENTS:
 16" - CIWTR - 600' - 1957
 4" - AC WTR - 129.46' - 1957
 1" SERVICE - 21- MATERIAL - 1957
 FH (2-PORT) - 1



CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO
 LOW OVERHEAD UTILITY LINES.

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT
 LOCATION AND MUST CONTACT NAVY FUEL DEPT
 STEVE FRE'S (619) 553-1314 THREE (3) WEEKS
 IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT
 STANDBY REQUIRED.



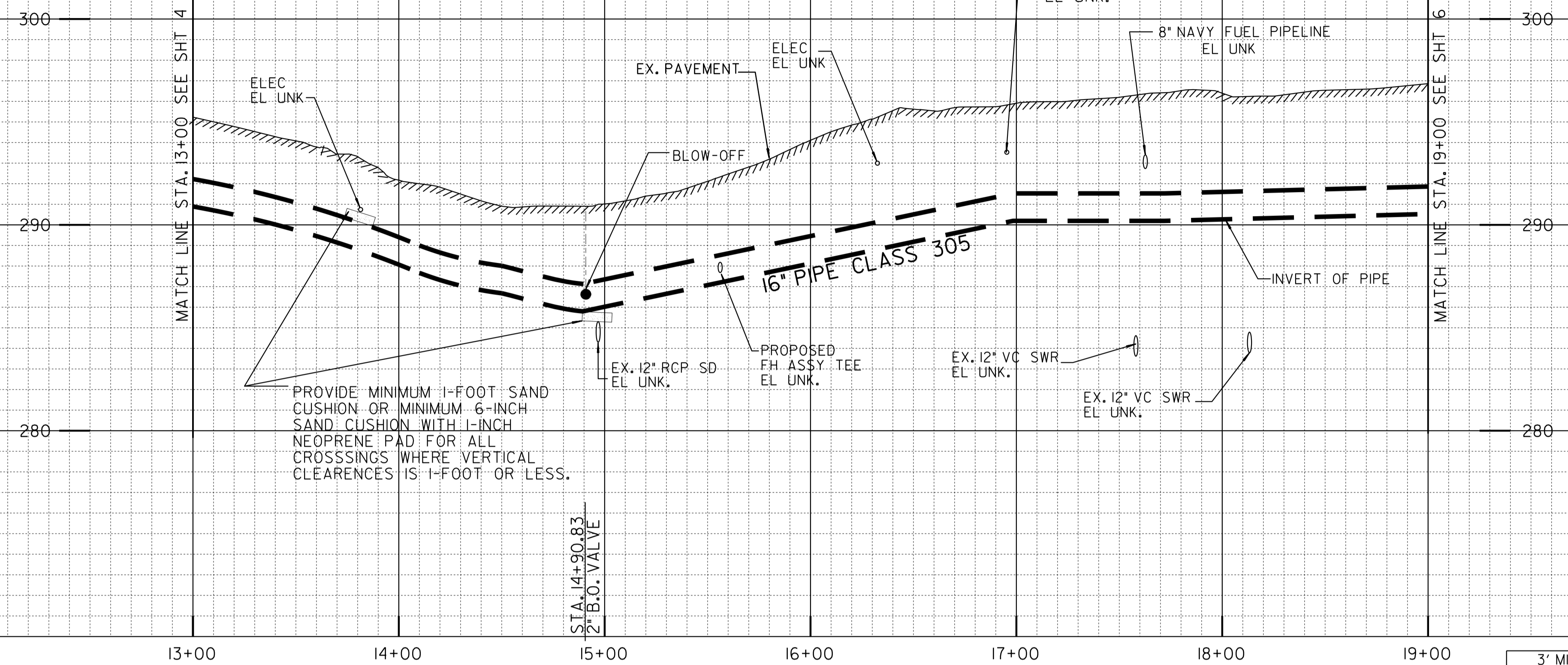
PHASE 2 C-2

WATER AND SEWER GROUP 966
 VIA ALCAZAR AND VIA AMATA
 STA 7+00.00 TO 13+00.00 AND 1+00.00 TO 2+29.46

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 04 OF 20 SHEETS		WATER WBS B-12086
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH DATE: 05/18/2017 PRINT DCE NAME: RCE#		SEWER WBS B-12085
SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER		CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION: ORIGINAL		
BY: JS/JR	APPROVED:	DATE FILMED:
230-1707 CCS27 COORDINATE		6274318-1872737 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED: 37929-04-D
DATE COMPLETED:		

VIA ALCAZAR AND VIA AMATA

VIA ARCILLA



Element: Linear	PI (I13) 12+03.84	1871470.45	6274194.00
	PI (I14) 13+79.45	1871572.24	6274337.10
	Tangential Direction: 0.95		Tangential Length: 175.61
Element: Linear	PI (I15) 15+58.24	1871751.03	6274335.58
	PI (I16) 16+45.49	1871838.27	6274334.84
	Tangential Direction: 6.27		Tangential Length: 87.25
Element: Linear	PI (I16) 16+45.49	1871838.27	6274334.84
	PI (I17) 17+85.87	1871972.43	6274376.18
	Tangential Direction: 0.30		Tangential Length: 140.38
Element: Linear	PI (I17) 17+85.87	1871972.43	6274376.18
	PI (I18) 19+30.66	1872117.20	6274374.75
	Tangential Direction: 6.27		Tangential Length: 144.78

SCALE
1"=40' HORIZ.
1"=4' VERT.

CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO
LOW OVERHEAD UTILITY LINES.

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 13+00.00	STA. 19+00.00	600.00

CAUTION
NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT
LOCATION AND MUST CONTACT NAVY FUEL DEPT
STEVE FRE'S (619) 553-1314 THREE (3) WEEKS
IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT
STANDBY REQUIRED.

① ①④
BY CONTRACTOR
FURNISH AND INSTALL
STA 13+79.44
1- 16" 45' BEND (MJ, F)
1- 16" BFV (F, MJ) AHD

② ①⑤
BY CONTRACTOR
FURNISH AND INSTALL
STA 15+58.24
1- 16" X 6" TEE (MJ, F)
1- 6" FH ASSY AND MARKER

①A --
BY CONTRACTOR
FURNISH AND INSTALL
STA 14+90.82
1- 4" BLOW-OFF

③ ①⑥
BY CONTRACTOR
FURNISH AND INSTALL
STA 16+45.49
1- 16" 22 1/2' BEND (MJ)

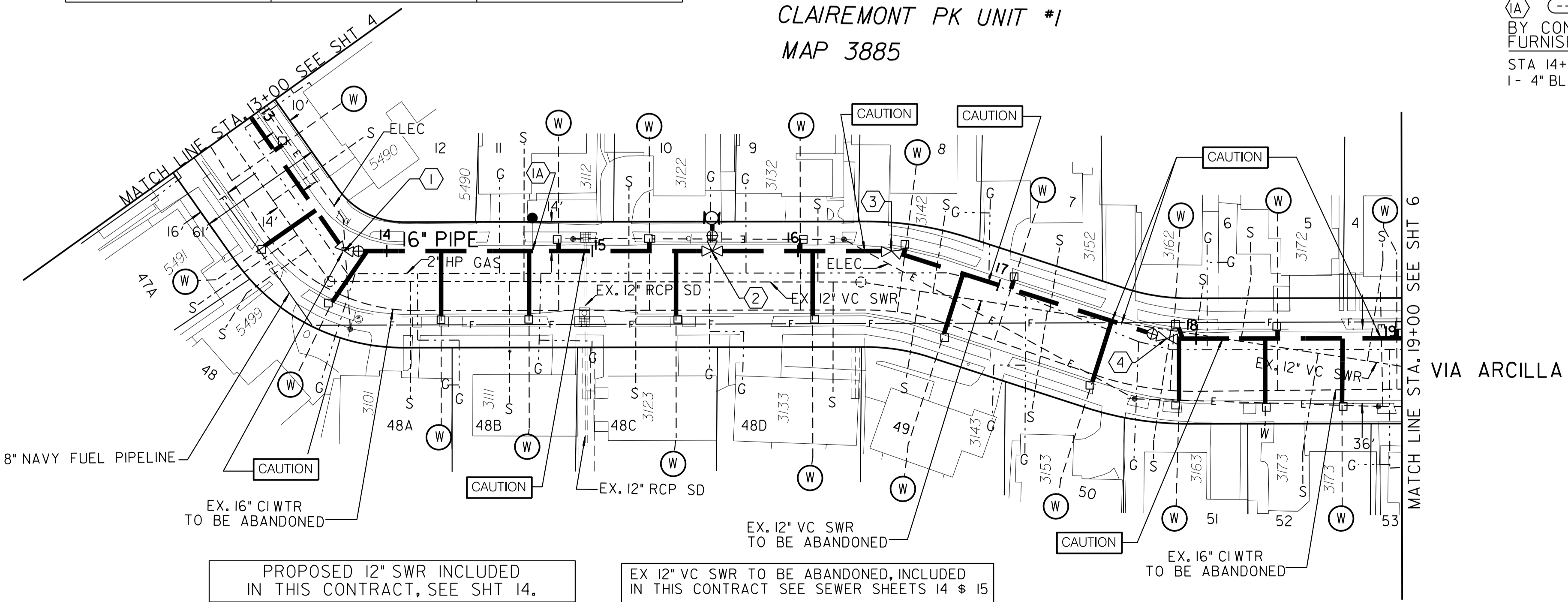
REFERENCE:

WATER: 13015-2-D, 3432-0-D, 3427-0-D
SEWER: 3427-0-D, 3432-0-D
STORM DRAIN: 3428-D
GAS: 482691.22, 3628859.83
ELECTRIC: 15832-119055
CABLE TV:
TELEPHONE: 1v1105b.dgn
IMPROVEMENTS:
100' SCALE/FIELD BOOK: E14S
THOMAS BROS.: I248G6
HGL: 559

RETIREMENTS:

16" - CIWTR - 600' - 1957
1" SERVICE - 19 - MATERIAL - 1957

CLAIREMONT PK UNIT #1
MAP 3885



PROPOSED 12" SWR INCLUDED
IN THIS CONTRACT, SEE SHT 14.

EX 12" VC SWR TO BE ABANDONED, INCLUDED
IN THIS CONTRACT SEE SEWER SHEETS 14 & 15

PHASE 2
WATER AND SEWER GROUP 966
VIA ARCILLA
STA 13+00.00 TO 19+00.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 05 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION ORIGINAL JS/JR	APPROVED	DATE
		FILMED
230-1707 CCS27 COORDINATE		6274318-1872737 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
		37929-05-D

C-3

VIA ARCILLA

Element: Linear
 PI (117) 17+85.87 1871972.43 6274376.18
 Tangential Direction: 6.27
 Tangential Length: 144.78

Element: Linear
 PI (118) 19+30.66 1872117.20 6274374.75
 PI (119) 22+19.52 1872406.06 6274371.90
 Tangential Direction: 6.27
 Tangential Length: 288.87

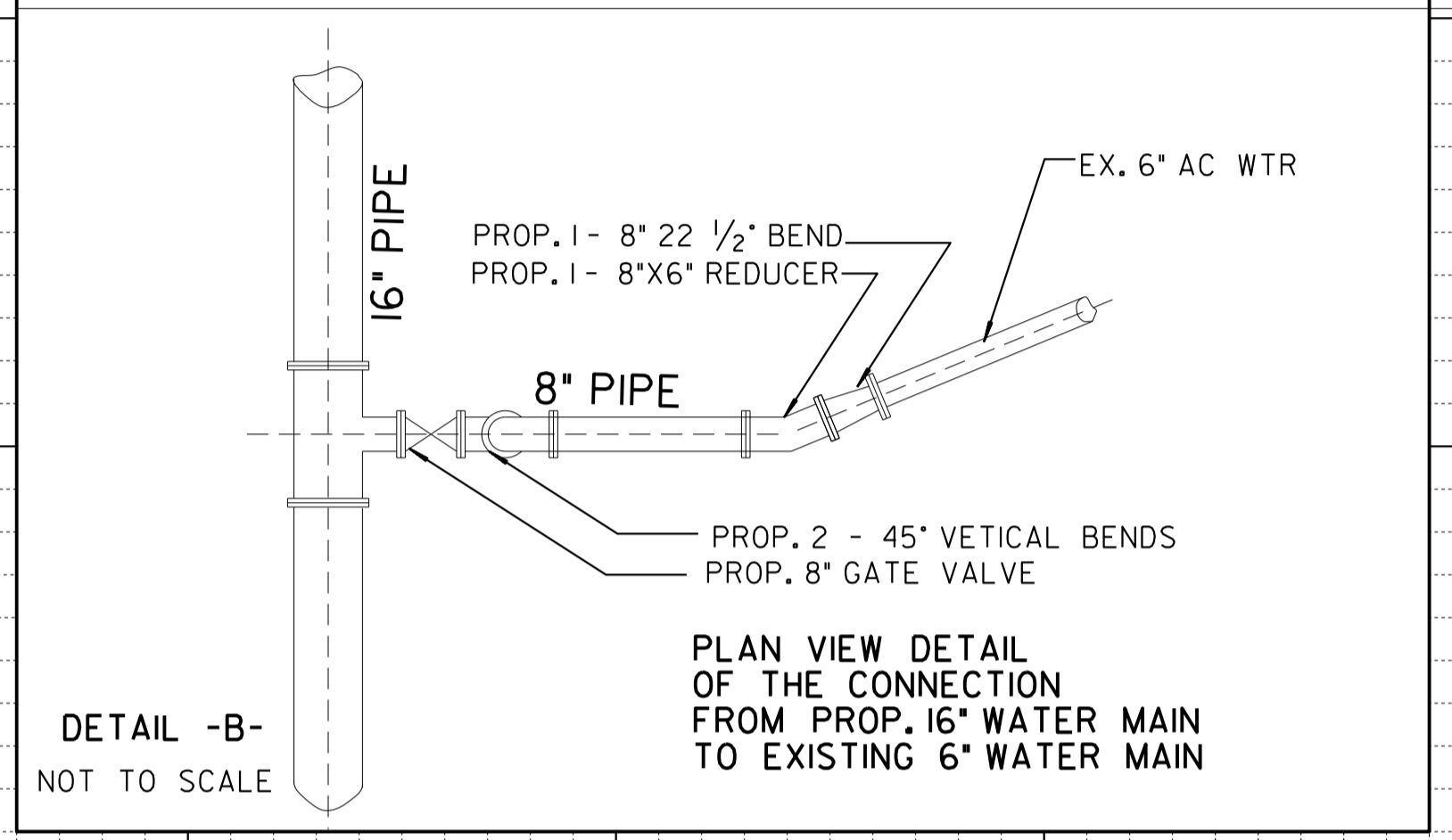
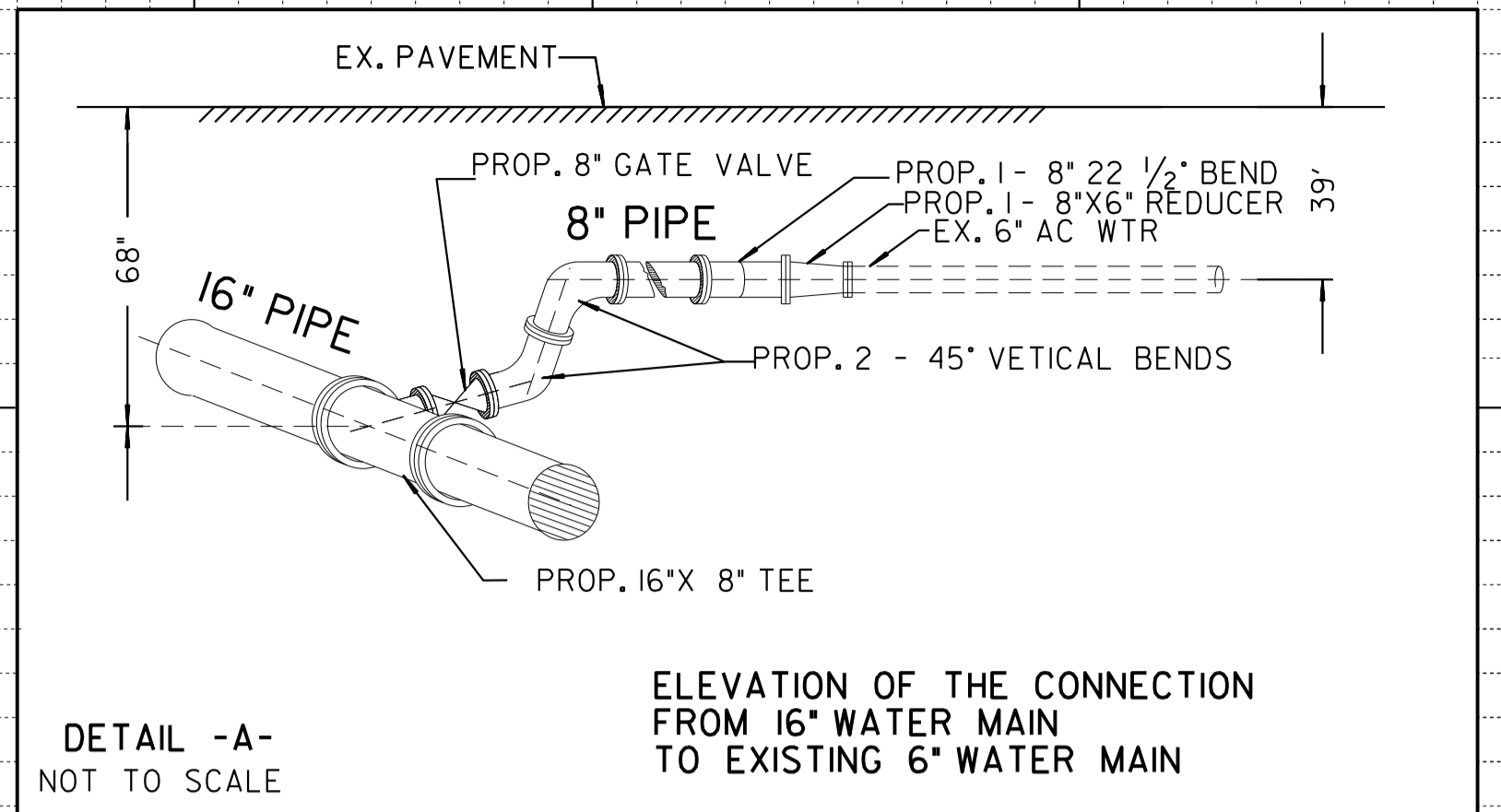
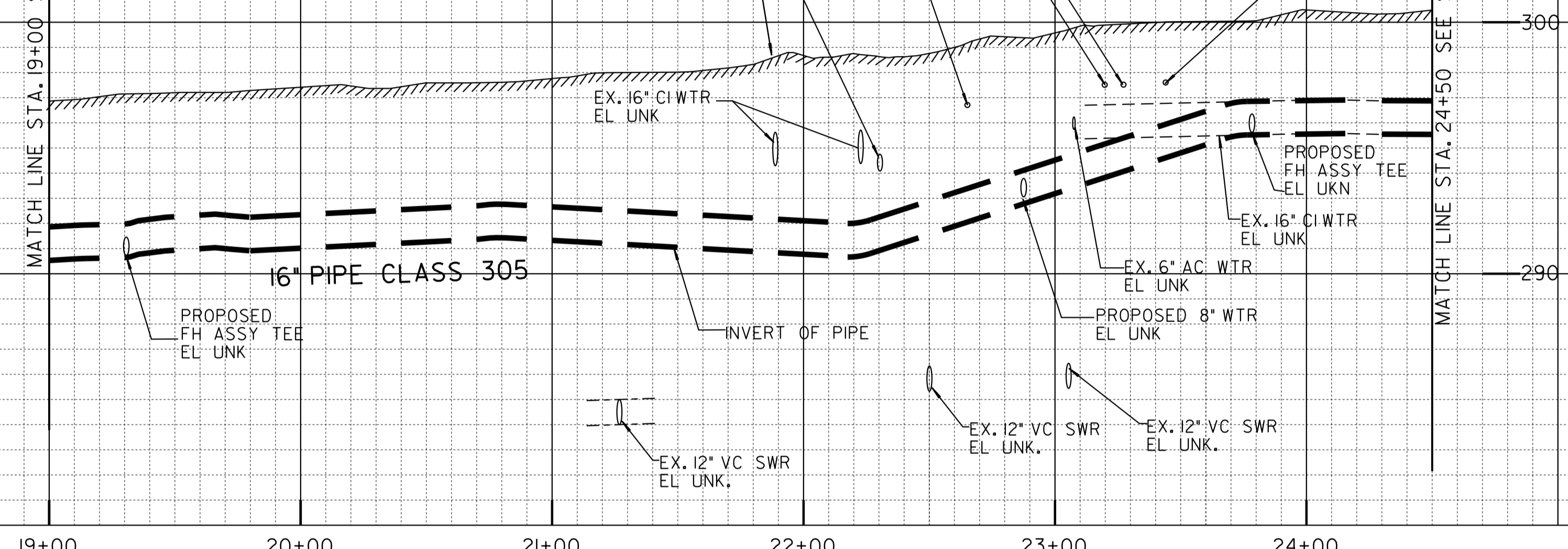
Element: Linear
 PI (120) 22+53.17 1872430.45 6274348.73
 PI (121) 22+73.60 1872447.73 6274337.82
 Tangential Direction: 5.72
 Tangential Length: 20.44

Element: Linear
 PI (121) 22+73.60 1872447.73 6274337.82
 PI (122) 22+97.52 1872471.33 6274341.69
 Tangential Direction: 0.16
 Tangential Length: 23.92

Element: Linear
 PI (122) 22+97.52 1872471.33 6274341.69
 PI (123) 23+43.66 1872516.85 6274349.19
 Tangential Direction: 0.16
 Tangential Length: 46.13

Element: Linear
 PI (123) 23+43.66 1872516.85 6274349.19
 PI (124) 23+75.56 1872548.76 6274348.95
 Tangential Direction: 6.28
 Tangential Length: 31.91

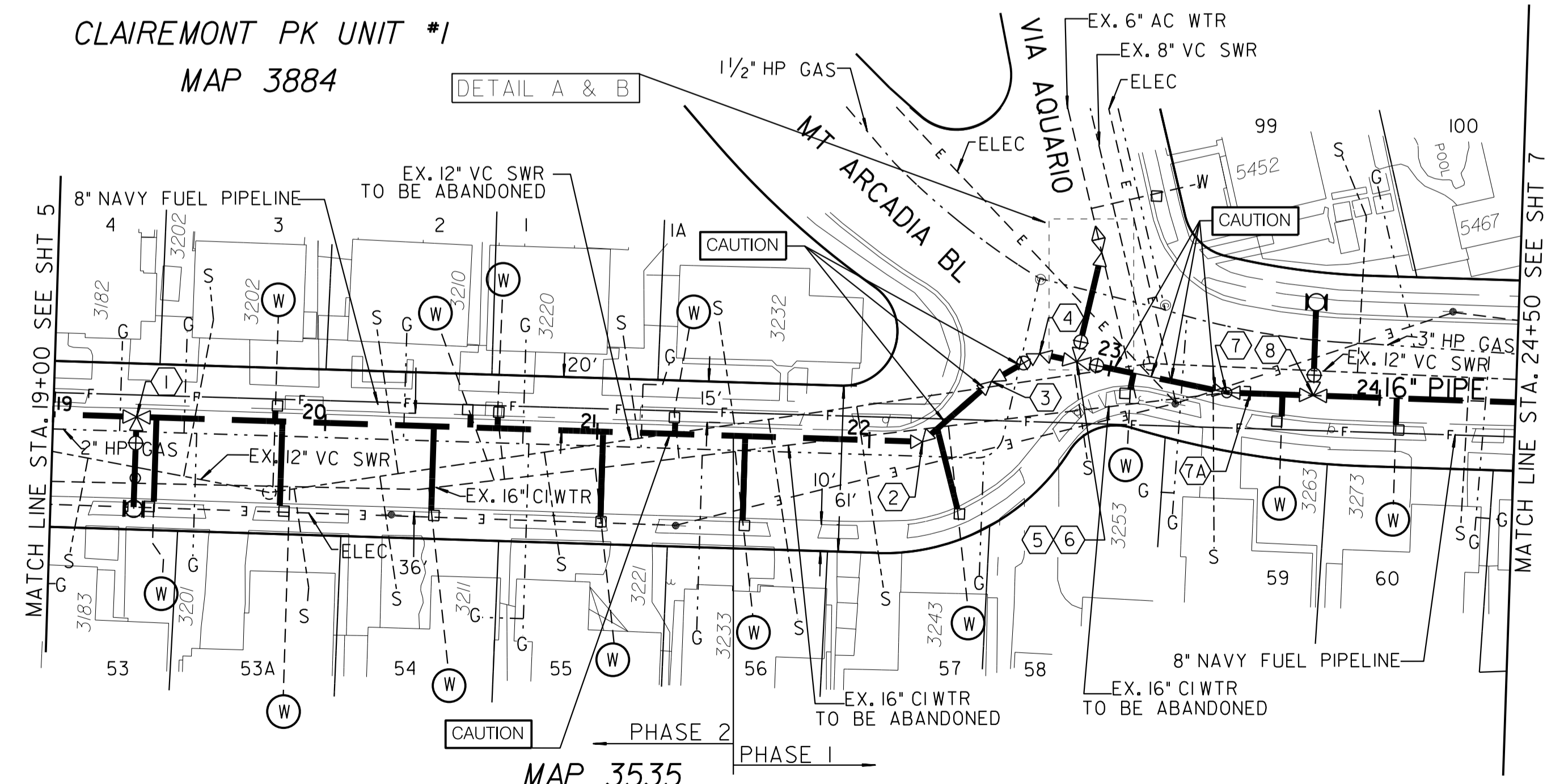
Element: Linear
 PI (124) 23+75.56 1872548.76 6274348.95
 PI (125) 25+12.84 1872686.03 6274347.86
 Tangential Direction: 6.28
 Tangential Length: 137.28



SCALE
 1"=40' HORIZ.
 1"=4' VERT.

- 1 (118) BY CONTRACTOR FURNISH AND INSTALL
 STA 19+30.65
 1- 16" X 6" TEE (MJ, MJ, F)
 1- 6" FH ASSY AND MARKER
- 2 (119) BY CONTRACTOR FURNISH AND INSTALL
 STA 22+19.52
 1- 16" 45° BEND (MJ)
- 3 (120) BY CONTRACTOR FURNISH AND INSTALL
 STA 22+53.16
 1- 16" 11-1/4° BEND (MJ)
- 4 (121) BY CONTRACTOR FURNISH AND INSTALL
 STA 22+73.60
 1- 16" 45° BEND (MJ)
 1- 16" BFV (F, MJ) BK
- 5 (122) BY CONTRACTOR FURNISH AND INSTALL
 STA 22+97.52
 1- 16" X 8" TEE (F, MJ, F)
 1- 8" GATE VALVE (MJ) LT
 1- 16" BFV (MJ, F) AHD
 1- 40'- 8" PIPE LT
 KEEP THE 8" GV CLOSED AND THE 8" PIPE BLIND FLANGED UNTIL CITY FORCES COMPLETE THE CUT-IN CONNECTION (PER DETAIL A&B THIS SHEET)
- 6 (122) BY CITY FORCES AFTER CONTRACTOR
 STA 22+97.52
 CUT-IN:
 1- 8" 22-1/2° BEND, 40' LT
 1- 8" X 6" REDUCER, 40' LT
 CONNECT TO 8" PVC
- 7 (123) BY CONTRACTOR FURNISH AND INSTALL
 STA 23+46.19
 1- 16" 11-1/4° BEND (MJ)
- 7A BY CITY FORCES AHD OF CONTRACTOR
 STA 23+51.00
 PERMANENT CUT AND PLUG EX 16" CIWTR. COORDINATE WITH CONTRACTOR TO ABANDON EX 16" CIWTR
- 8 (124) BY CONTRACTOR FURNISH AND INSTALL
 STA 23+78.04
 1- 16" X 6" TEE (MJ, MJ, F)
 1- 6" FH ASSY AND MARKER

CLAIREMONT PK UNIT #1
 MAP 3884



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 19+00.00	STA. 23+46.00	446.00

CAUTION

NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

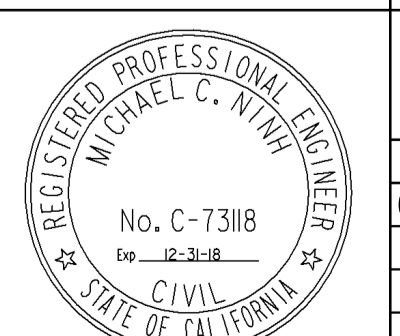
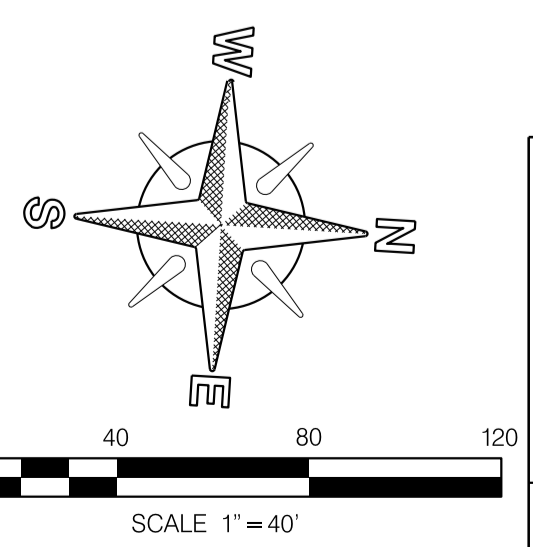
PROPOSED 12" SWR INCLUDED IN THIS CONTRACT SEE SHT 15.

REFERENCE:

WATER: 3428-0-D, 3427-0-D, 3425-0-D, 3433-0-D
 SEWER: 3428-0-D, 3429-0-D, 3433-0-D
 STORM DRAIN:
 GAS: 482801.34, 3629145.38
 ELECTRIC: 15832-119065, 15832-119070
 CABLE TV:
 TELEPHONE: 11103db.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E145
 THOMAS BROS.: I248G6
 HGL: 559

RETIREMENTS:

16" - CIWTR - 550' - 1957
 1" SERVICE - 13 - MATERIAL - 1957
 FH (2-PORT) - 1



WATER AND SEWER GROUP 966
 VIA ARCILLA AND MT ACADIA BL
 STA 19+00.00 TO 24+50.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 06 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JS/JR	APPROVED
DATE	FILED	
230-1707 CCS27 COORDINATE		6274318-1872737 CCS83 COORDINATE
DATE STARTED		DATE COMPLETED
CONTRACTOR INSPECTOR		37929-06-D

VIA ARCILLA AND MT ACADIA BL

C-4

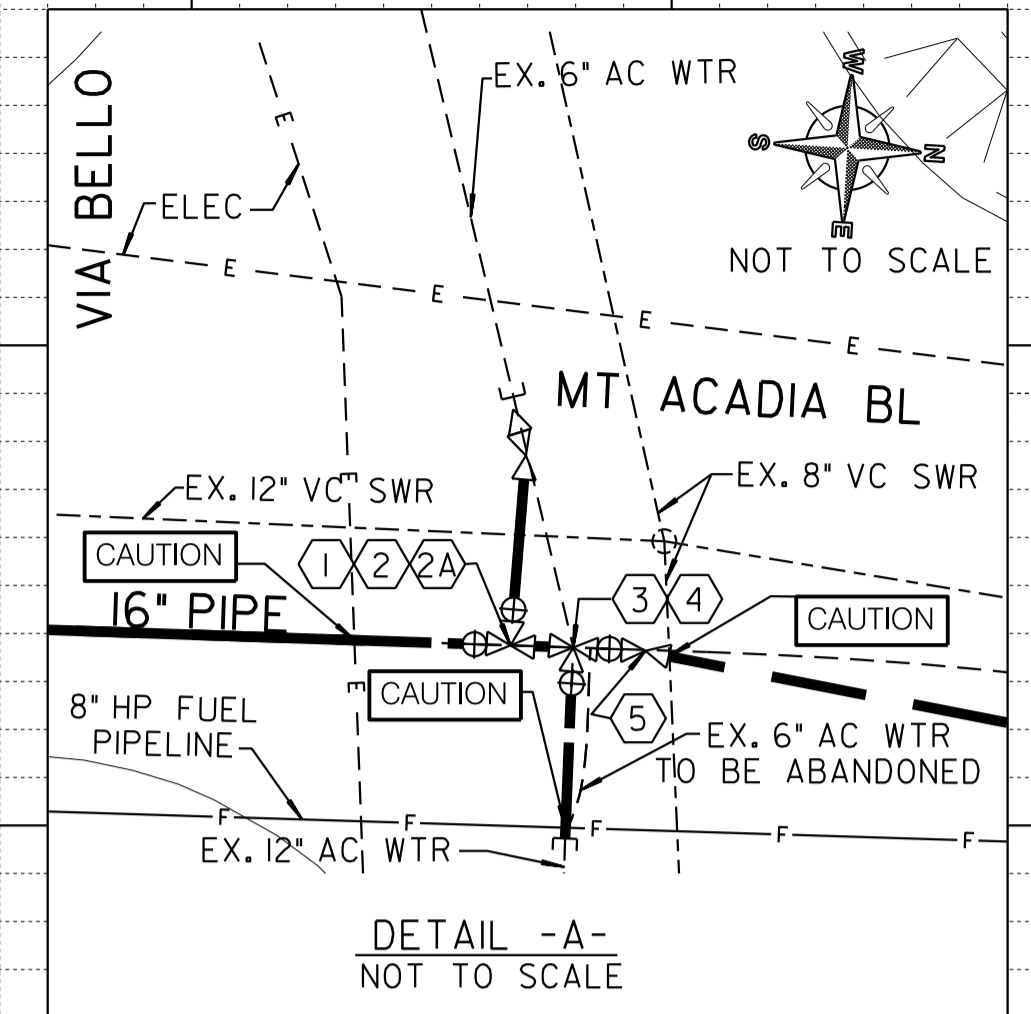
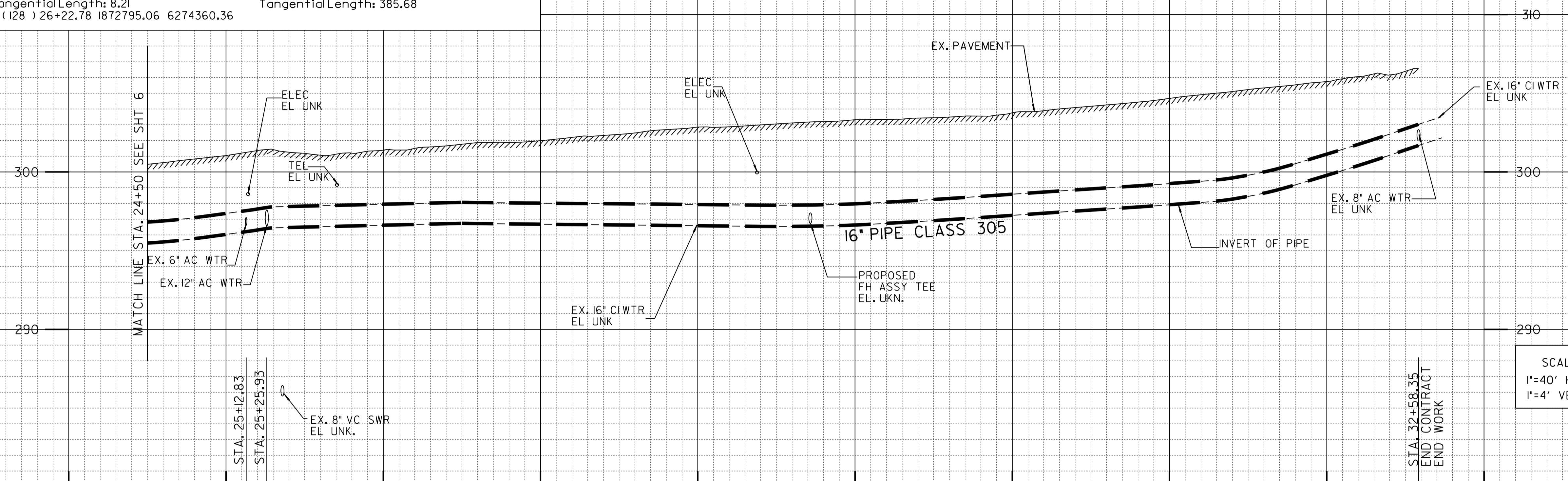
Element: Linear
 PI (125) 25+12.84 1872686.03 6274347.86
 PI (126) 25+25.94 1872699.13 6274347.76
 Tangential Direction: 6.28
 Tangential Length: 13.10

Element: Linear
 PI (128) 26+22.78 1872795.06 6274360.36
 PI (129) 28+72.68 1873032.71 6274437.66
 Tangential Direction: 0.31
 Tangential Length: 249.90

Element: Linear
 PI (126) 25+25.94 1872699.13 6274347.76
 PI (127) 25+34.15 1872707.34 6274347.70
 Tangential Direction: 6.28
 Tangential Length: 8.21
 PI (128) 26+22.78 1872795.06 6274360.36

Element: Linear
 PI (129) 28+72.68 1873032.71 6274437.66
 POE (130) 32+58.36 1873399.44 6274557.05
 Tangential Direction: 0.31
 Tangential Length: 385.68

MT ACADIA BL



SCALE
 1"=40' HORIZ.
 1"=4' VERT.

① (125)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 25+12.83
 1- 16" X 8" TEE (MJ, MJ, F)
 1- 8" GV (F) LT
 1- 16" BFV (F, MJ) BK
 1- 40'-8" PIPE LT

② (125)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 25+12.83
 1- 8" 22-1/2" BEND (F, MJ) LT
 1- 8" X 6" REDUCER (F, MJ) LT

②A (125)
 BY CITY FORCES
 AHD OF CONTRACTOR
 FURNISH AND INSTALL
 STA 25+12.83
 CUT AND PLUG
 EX 6" AC WTR 40' LT
 RECONNECT AFTER NEW MAIN
 HAS BEEN ACCEPTED

③ (126)
 BY CITY FORCES
 AHD OF CONTRACTOR
 FURNISH AND INSTALL
 STA 25+25.93
 CUT AND PLUG
 EX 12" AC WTR 40' RT
 RECONNECT AFTER NEW MAIN
 HAS BEEN ACCEPTED

④ (126)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 25+25.93
 1- 16" X 12" TEE (F, MJ, F)
 1- 16" BFV (MJ, F) AHD
 1- 12" GV (MJ) RT
 1- 40'-12" PIPE RT

⑤ (127)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 25+34.15
 1- 16" 11/4" BEND (MJ)

⑥ (128)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 26+22.77
 1- 16" 11/4" BEND (MJ)

⑦ (129)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 28+72.67
 1- 16" X 6" TEE (MJ, F)
 1- 6" FH ASSY AND MARKER

⑧ (130)
 BY CITY FORCES
 AHD OF CONTRACTOR
 FURNISH AND INSTALL
 STA 32+58.35
 CLOSE EX 16" BFV
 OPEN VALVE AFTER NEW
 MAIN HAS BEEN ACCEPTED

⑧A (130)
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 32+58.35
 CONNECT TO EX. 16" BFV

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO
 LOW OVERHEAD UTILITY LINES.

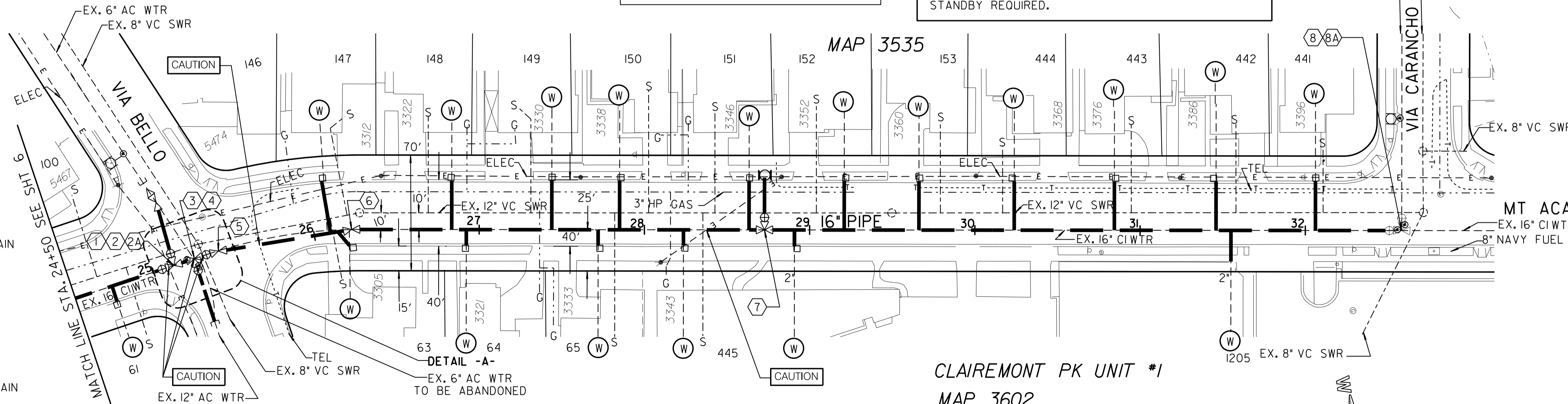
PROPOSED 12" SWR INCLUDED IN THIS
 CONTRACT, SEE SHT 16.

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT
 LOCATION AND MUST CONTACT NAVY FUEL DEPT
 STEVE FRE'S (619) 553-1314 THREE (3) WEEKS
 IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT
 STANDBY REQUIRED.

3' MINIMUM
 DEPTH OF COVER

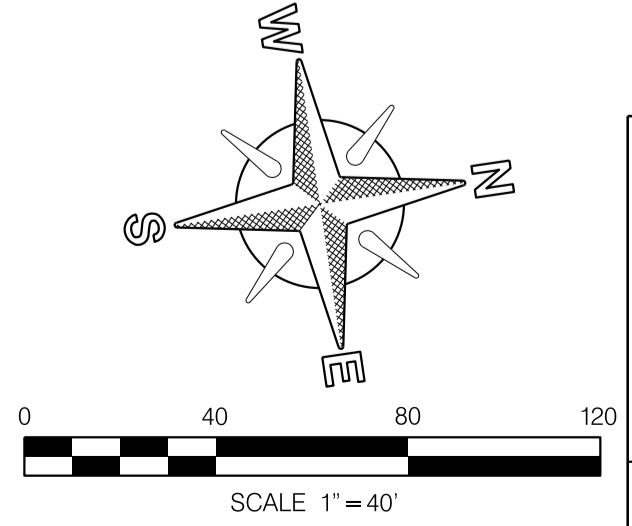
REFERENCE:
 WATER: 9352-2-D, 3430-0-D, 4548-0-D
 SEWER: 3429-0-D, 3430-0-D
 STORM DRAIN:
 GAS: 482893.72, 3629498.23
 ELECTRIC: I5832-I19075
 CABLE TV:
 TELEPHONE: I1103bb.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G5
 HGL: 559

RETIREMENTS:
 16" - CIWTR - 808.35' - 1957
 2" SERVICE - 2 - MATERIAL - 1956
 1" SERVICE - 16 - MATERIAL - 1956



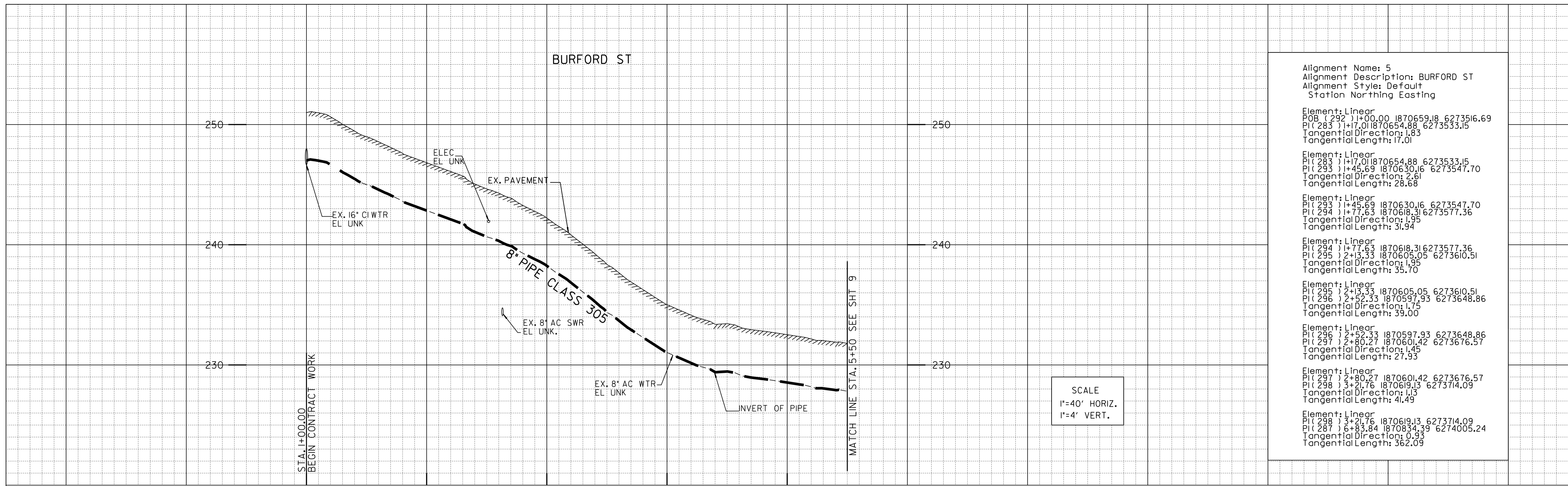
PHASE I
 WATER AND SEWER GROUP 966
 MT ACADIA BL
 STA 24+50.00 TO 33+58.35

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 07 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
DATE STARTED		DATE FILMED
DATE COMPLETED		
6274318-1872737 CCS83 COORDINATE		230-1707 CCS27 COORDINATE
37929-07-D		



MT ACADIA BL

C-5



Alignment Name: 5
 Alignment Description: BURFORD ST
 Alignment Style: Default
 Station Northing Easting

Element: Linear
 POB (292) 1+00.00 1870659.18 6273516.69
 P (283) 1+17.01 1870654.88 6273533.15
 Tangential Direction: 1.83
 Tangential Length: 17.01

Element: Linear
 PI (283) 1+17.01 1870654.88 6273533.15
 P (293) 1+45.69 1870630.16 6273547.70
 Tangential Direction: 2.61
 Tangential Length: 28.68

Element: Linear
 PI (293) 1+45.69 1870630.16 6273547.70
 P (294) 1+77.63 1870618.31 6273577.36
 Tangential Direction: 1.95
 Tangential Length: 31.94

Element: Linear
 PI (294) 1+77.63 1870618.31 6273577.36
 P (295) 2+13.33 1870605.05 6273610.51
 Tangential Direction: 1.95
 Tangential Length: 35.70

Element: Linear
 PI (295) 2+13.33 1870605.05 6273610.51
 P (296) 2+52.33 1870597.93 6273648.86
 Tangential Direction: 1.75
 Tangential Length: 39.00

Element: Linear
 PI (296) 2+52.33 1870597.93 6273648.86
 P (297) 2+80.27 1870601.42 6273676.57
 Tangential Direction: 1.45
 Tangential Length: 27.93

Element: Linear
 PI (297) 2+80.27 1870601.42 6273676.57
 P (298) 3+21.76 1870619.13 6273714.09
 Tangential Direction: 1.13
 Tangential Length: 41.49

Element: Linear
 PI (298) 3+21.76 1870619.13 6273714.09
 P (287) 6+83.84 1870834.39 6274005.24
 Tangential Direction: 0.93
 Tangential Length: 362.09

SCALE
 1"=40' HORIZ.
 1"=4' VERT.

3' MINIMUM
 DEPTH OF COVER

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

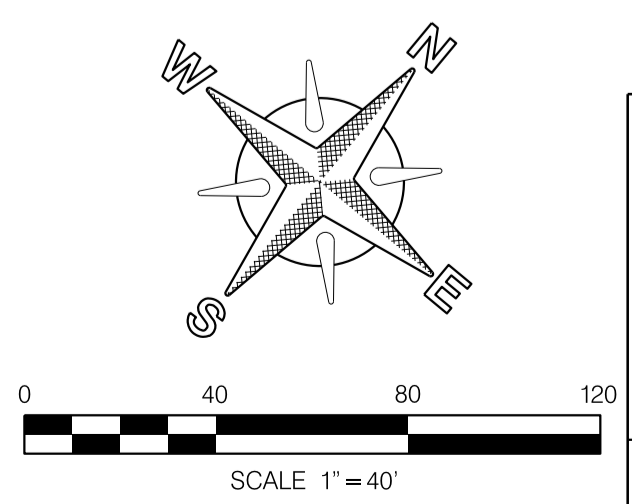
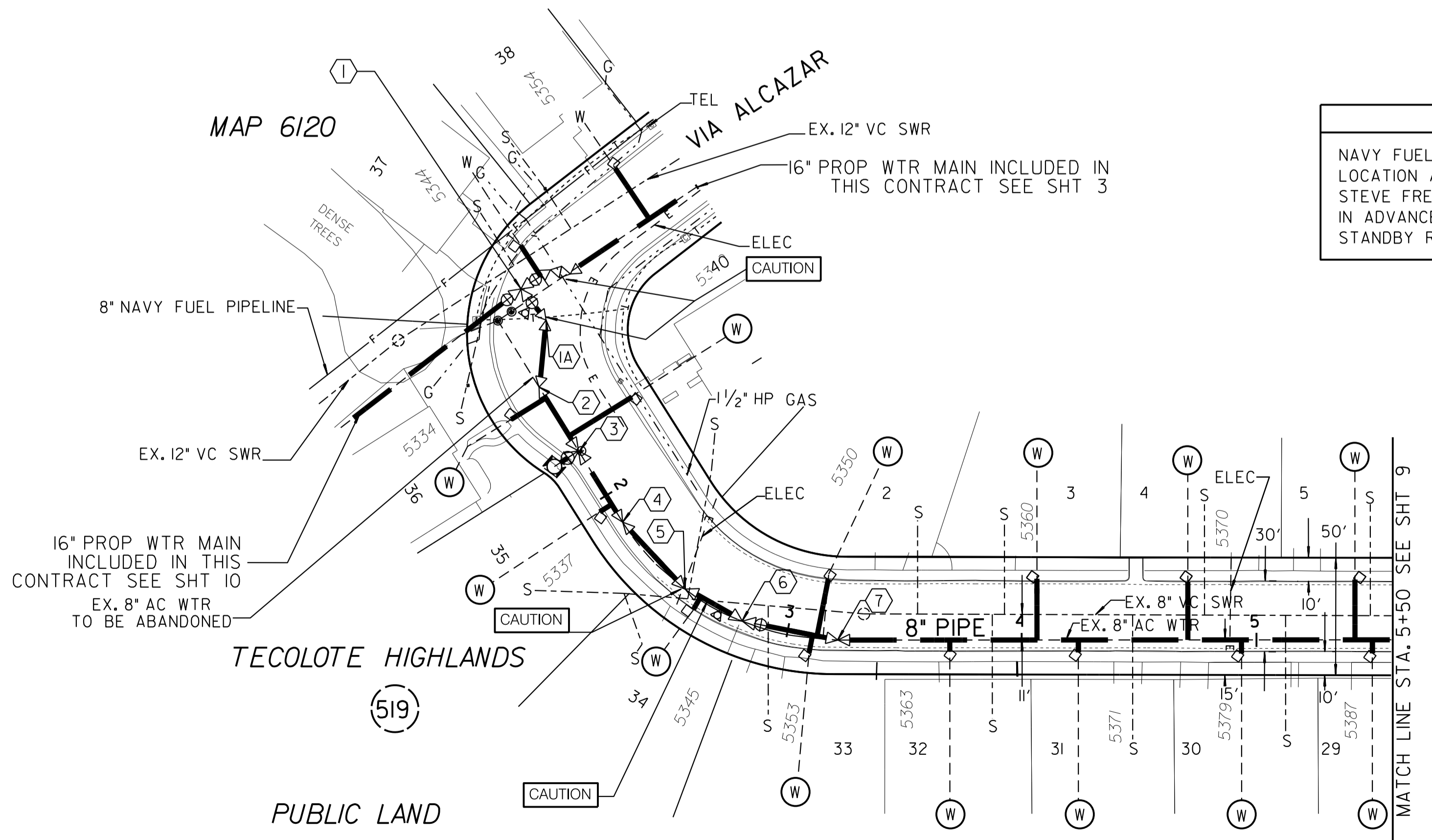
- ① 283
BY CONTRACTOR FURNISH AND INSTALL
STA 1+00 (SHEET 8)
- STA 1+00 (SHEET 3)
SEE NOTE 1, SHEET 3
- ⑤ 296
BY CONTRACTOR FURNISH AND INSTALL
STA 2+52.33
1- 8" 22 1/2" BEND (MJ)
- ⑥ 297
BY CONTRACTOR FURNISH AND INSTALL
STA 2+80.27
1- 8" 22 1/2" BEND (MJ)
1- 8" GV (MJ, F) AHD
- ⑦ 298
BY CONTRACTOR FURNISH AND INSTALL
STA 3+21.76
1- 8" 11 1/4" BEND (MJ)
- ② 293
BY CONTRACTOR FURNISH AND INSTALL
STA 1+45.69
1- 8" 45" BEND (MJ)
- ③ 294
BY CONTRACTOR FURNISH AND INSTALL
STA 1+77.63
1- 8" X 6" TEE (MJ, F)
1- 6" FH ASSY AND MARKER
- ④ 295
BY CONTRACTOR FURNISH AND INSTALL
STA 2+13.33
1- 8" 11 1/4" BEND (MJ)

REFERENCE:
 WATER: 13015-2-D,
 SEWER: 3426-0-D, 3427-0-D
 STORM DRAIN:
 GAS: 48252.37, 3628564.24
 ELECTRIC: 15825-119045, 15825-119050
 CABLE TV:
 TELEPHONE: lv1105b.dgn
IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G6
 HGL: 559

RETIREMENTS:
 8" - AC WTR - 450' - 1969
 FH (2-PORT) - 1
 1" SERVICE - 13 - MATERIAL - 1900

PHASE 3
WATER AND SEWER GROUP 966
 BURFORD ST
 STA 1+00.00 TO 5+50.00

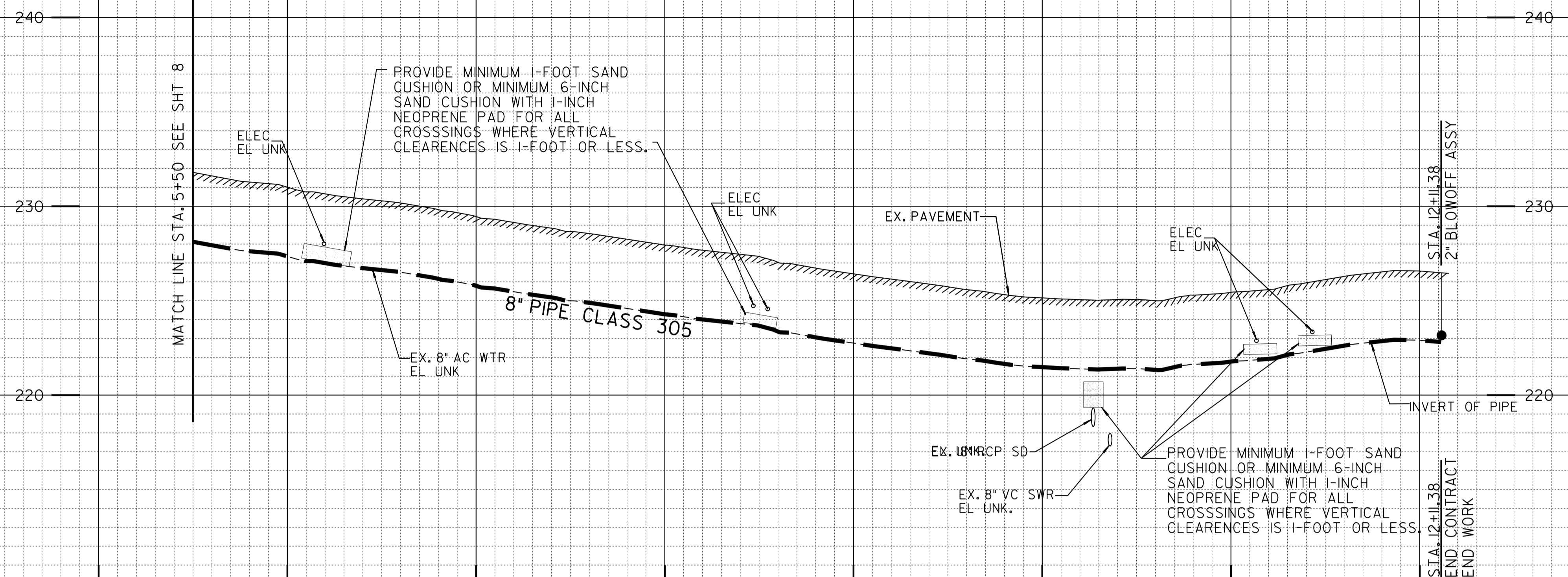
C-6



CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 08 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017	SUBMITTED BY MARYAM LIAGHAT PROJECT MANAGER
DESCRIPTION ORIGINAL	BY JS/JR	APPROVED DATE FILMED
CHECKED BY JAMAL SHERZAI PROJECT ENGINEER		230-1707 CCS27 COORDINATE
DATE STARTED		6274318-1872737 CCS83 COORDINATE
DATE COMPLETED		37929-08-D

BURFORD ST

BURFORD ST



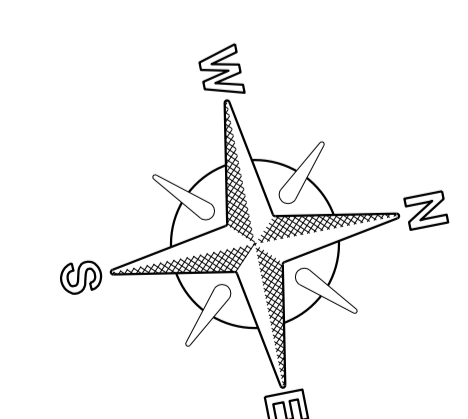
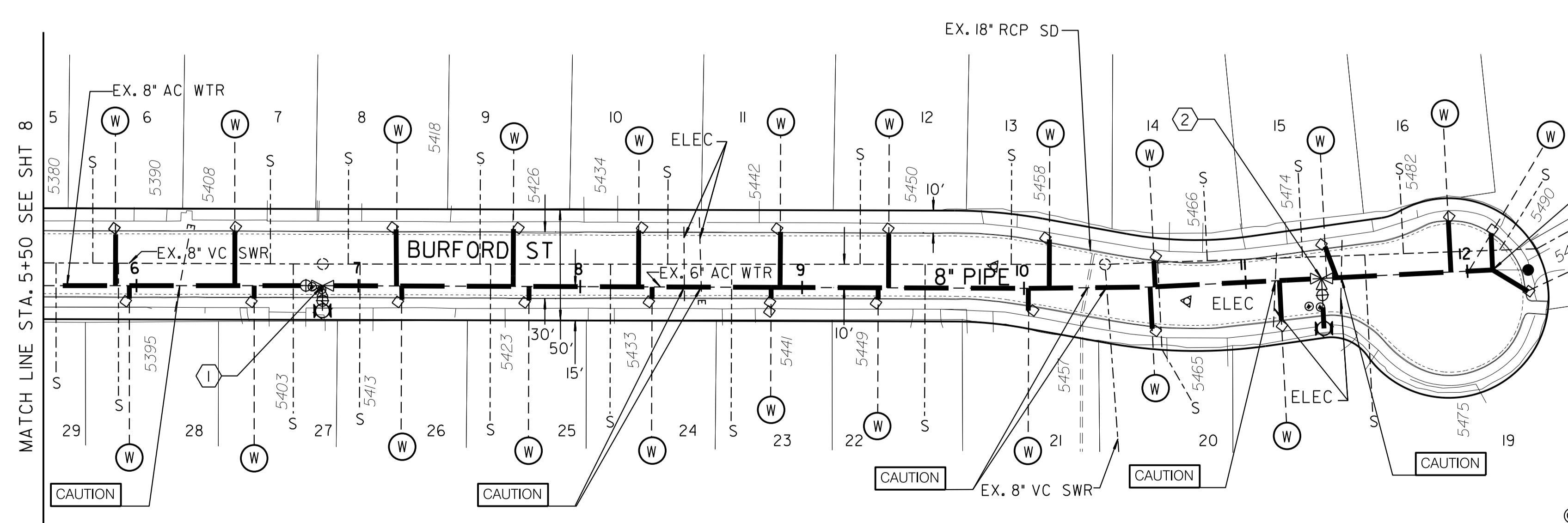
Element: Linear PI (287) 6+83.84 1870834.39 6274005.24 PI (299) 10+01.95 1871022.54 6274261.74 Tangential Direction: 0.94 Tangential Length: 318.11
Element: Linear PI (290) 10+56.82 1871055.65 6274305.50 PI (300) 11+34.20 1871104.70 6274365.34 Tangential Direction: 0.88 Tangential Length: 77.38
Element: Linear PI (290) 11+34.20 1871055.65 6274305.50 PI (290) 11+34.20 1871104.70 6274365.34 Tangential Direction: 0.88 Tangential Length: 77.38
Element: Linear PI (290) 11+34.20 1871104.70 6274365.34 POE (291) 12+11.38 1871153.62 6274425.04 Tangential Direction: 0.88 Tangential Length: 77.18
Alignment Name: Default Alignment Description: Alignment Style: Default

SCALE
1"=40' HORIZ.
1"=4' VERT.

3' MINIMUM DEPTH OF COVER

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00

- REFERENCE:**
 WATER: 13015-2-D,
 SEWER: 3426-0-D, 3427-0-D
 STORM DRAIN:
 GAS: 48252.37, 3628564.24
 ELECTRIC: 15825-119045, 15825-119050
 CABLE TV:
 TELEPHONE: 11105b.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I24866
 HGL: 559
- RETIREMENTS:**
 8" - AC WTR - 133.84' - 1969
 6" - AC WTR - 527.54'
 FH (2-PORT) - 1
 1" SERVICE - 23 - MATERIAL - 1900
- (1) (287)**
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 6+83.84
 1- 8" X 6" TEE (MJ, F)
 1- 6" FH ASSY AND MARKER
 1- 8" VALVE (F, MJ) BK
- (2) (290)**
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 11+34.20
 1- 6" X 8" TEE (MJ, F)
 1- 6" FH ASSY AND MARKER
- (3) (291)**
 BY CONTRACTOR
 FURNISH AND INSTALL
 STA 12+11.38
 1- 8" MULTIPLE SERVICE ASSEMBLY
 1- 2" BLOWOFF ASSY



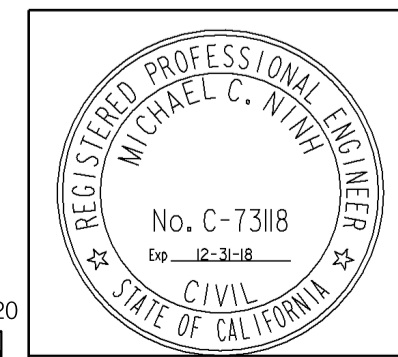
SCALE 1"=40'

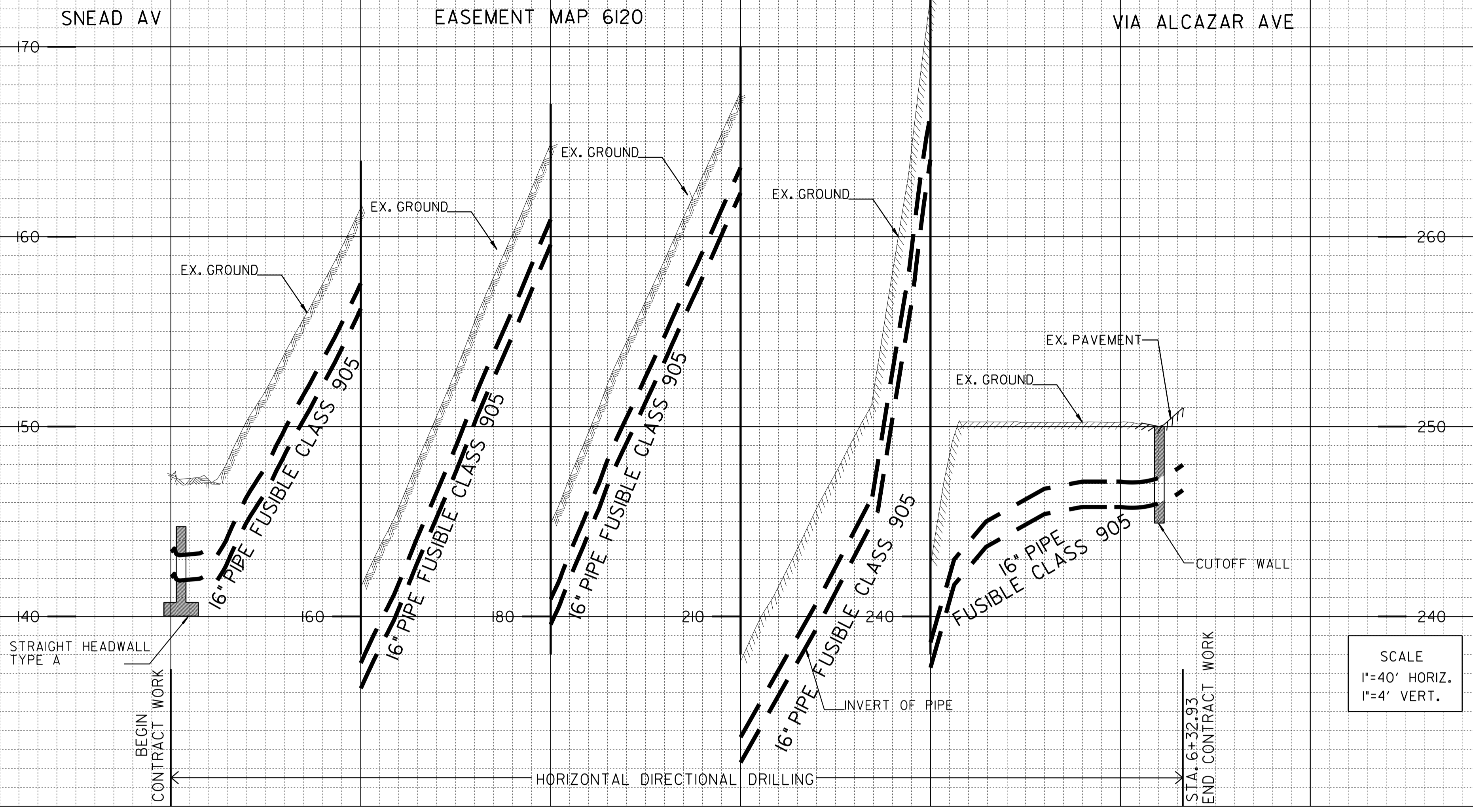
PHASE 3

C-7

WATER AND SEWER GROUP 966
 BURFORD ST
 STA 5+50.00 TO 12+11.38

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SEWER WBS SHEET 09 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JS/JR	APPROVED
DATE	FILED	
230-1707 CCS27 COORDINATE		6274318-1872737 CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
		37929-09-D





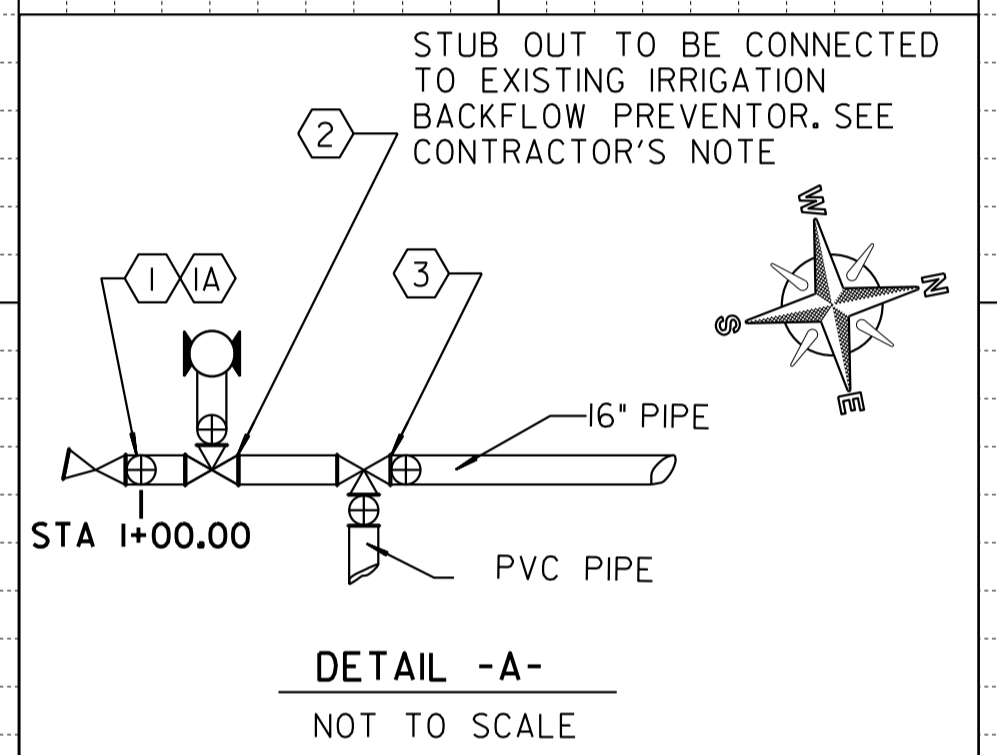
Alignment Name: I
 Alignment Description: SNEAD TO VIA ALCAZAR
 Alignment Style: Default
 Station Northing Easting

Element: Linear
 POB (100) 1+00.00 1870146.71 6273370.50
 PI (101) 1+4.88 1870161.0 6273374.27
 Tangential Direction: 0.26
 Tangential Length: 14.88

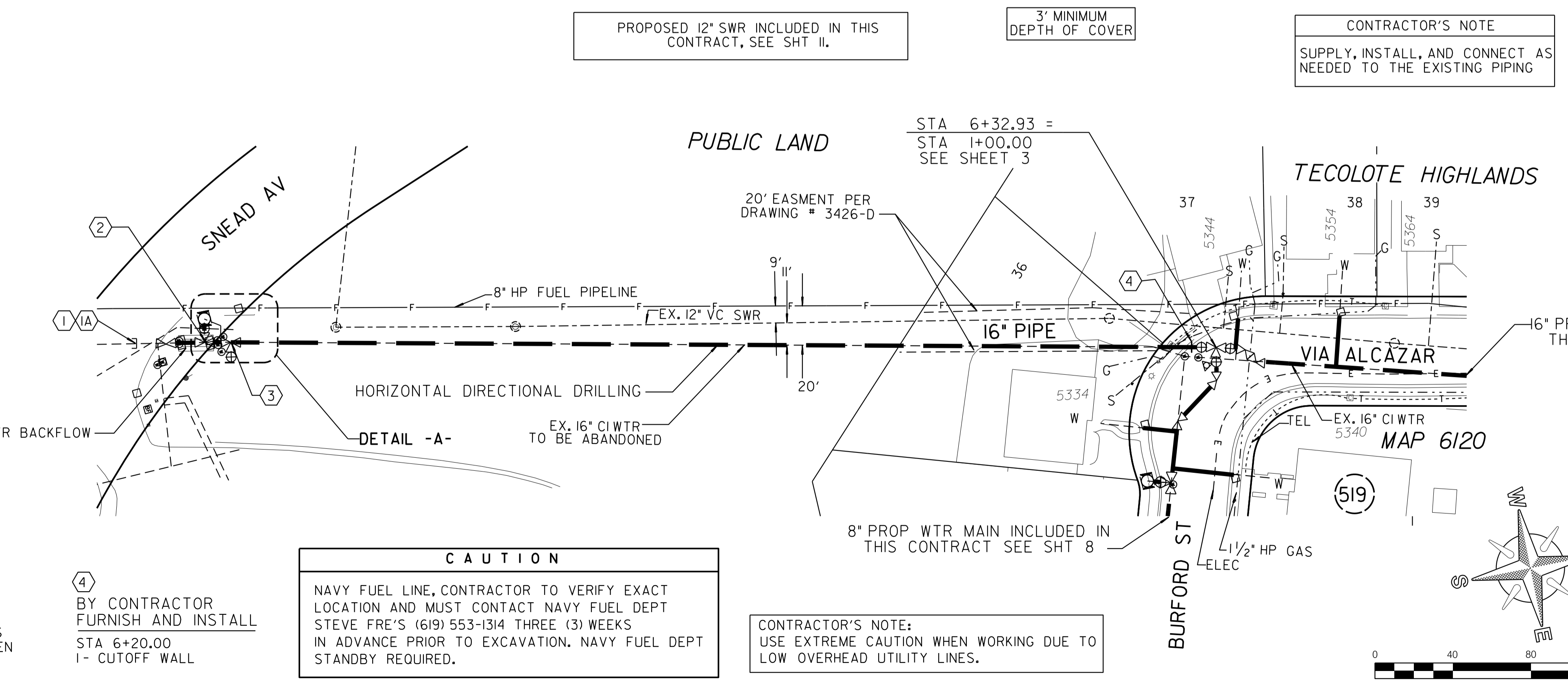
Element: Linear
 PI (101) 1+4.88 1870161.0 6273374.27
 PI (102) 1+19.88 1870165.94 6273375.53
 Tangential Direction: 0.26
 Tangential Length: 5.00

Element: Linear
 PI (102) 1+19.88 1870165.94 6273375.53
 PI (103) 1+28.23 1870173.98 6273377.81
 Tangential Direction: 0.28
 Tangential Length: 8.35

Element: Linear
 PI (103) 1+28.23 1870173.98 6273377.81
 POE (104) 6+32.93 1870659.18 6273516.71
 Tangential Direction: 0.28
 Tangential Length: 504.70



- ① 100
 BY CONTRACTOR FURNISH AND INSTALL
 STA 0+80.00
 1- 16" 11/4" BEND (F) 20' AHD
 1- 16" BFV (F, MJ) 22' AHD
 1- STRAIGHT HEADWALL TYPE A, 25' AHD
 (KEEP VALVE CLOSED AND BLIND FLANGED UNTIL, FUTURE CONNECTION)
- ①A 100
 BY CITY FORCES AHD OF CONTRACTOR
 STA 0+80.00
 PERMANENT CUT AND PLUG EX 16" CI WTR
 TO BE RECONNECTED BY FUTURE PROJECT
- ② 101
 BY CONTRACTOR FURNISH AND INSTALL
 STA 1+4.88
 1- 16" X 6" TEE (MJ, F, F)
 1- 6" FH ASSY AND MARKER
- ③ 103
 BY CONTRACTOR FURNISH AND INSTALL
 STA 1+28.23
 1- 16" X 8" TEE (F, MJ, F)
 1- 8" GV. (MJ, F) RT
 1- 16" BFV (MJ, F) AHD
 RECONNECT TO GOLF COURSE WATER METER-PVC PIPE AND APPURTENANCES AS NEEDED AFTER NEW MAIN HAS BEEN ACCEPTED
- ④
 BY CONTRACTOR FURNISH AND INSTALL
 STA 6+20.00
 1- CUTOFF WALL



REFERENCE:
 WATER: 13015-2-D,
 SEWER: 3426-0-D, 3427-0-D
 STORM DRAIN:
 GAS: 48252.37, 3628564.24
 ELECTRIC: 15825-119045, 15825-119050
 CABLE TV:
 TELEPHONE: 110105b.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E145
 THOMAS BROS.: I248G6
 HGL: 559

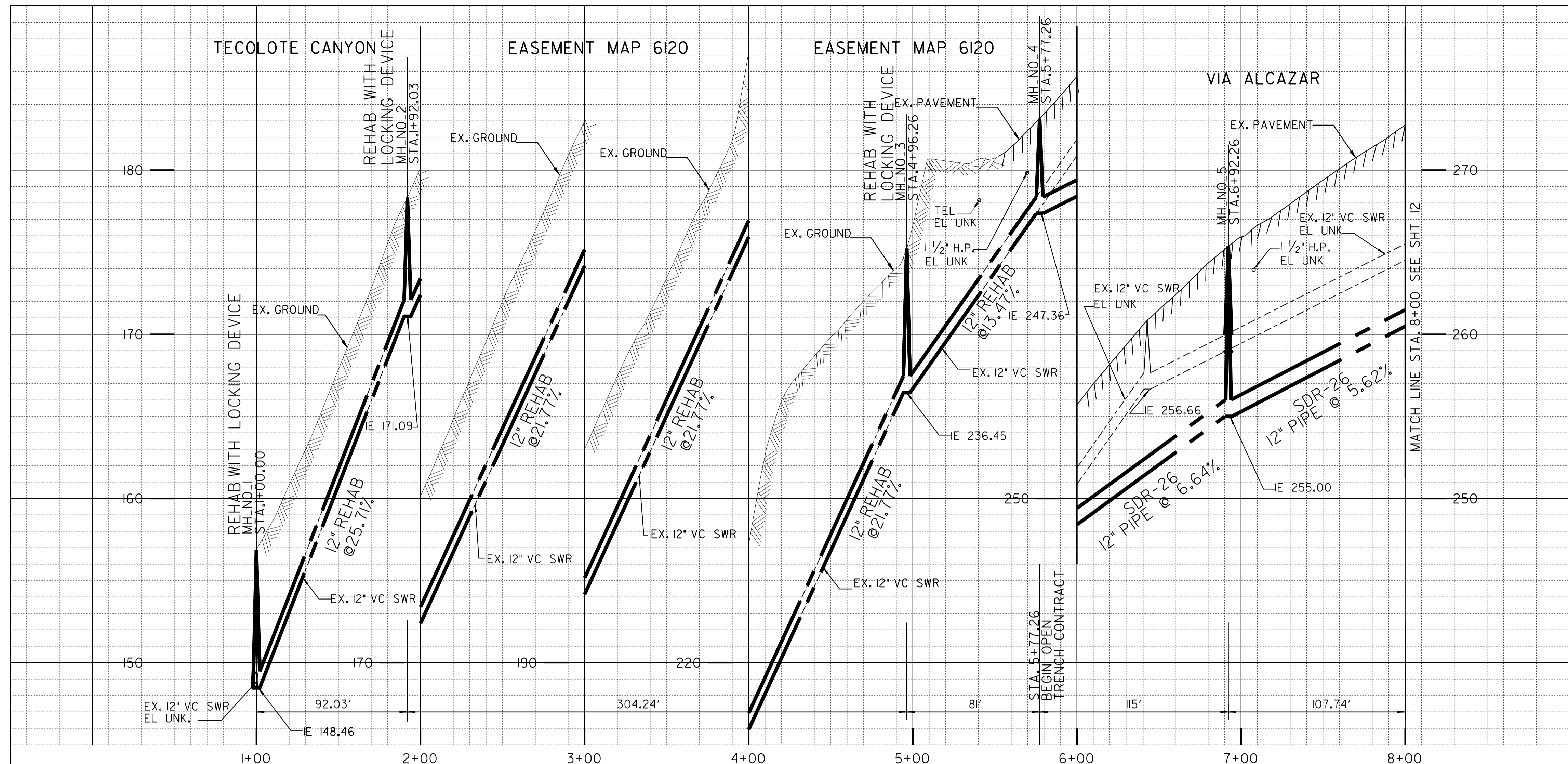
RETIREMENTS:
 FH (2-PORT) - 1
 16" - CI WTR - 532.93'

PHASE 3

C-8

WATER AND SEWER GROUP 966
 EASEMENT MAP 6120 AND VIA ALCAZAR
 STA 1+00.00 TO 6+32.93

CITY OF SAN DIEGO CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 10 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael NINH</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
DATE STARTED		DATE COMPLETED
6274318-1872737 CCS83 COORDINATE		37929-10-D



Alignment Name: 7
 Alignment Description:
 Alignment Style: Default
 Station Northing Easting

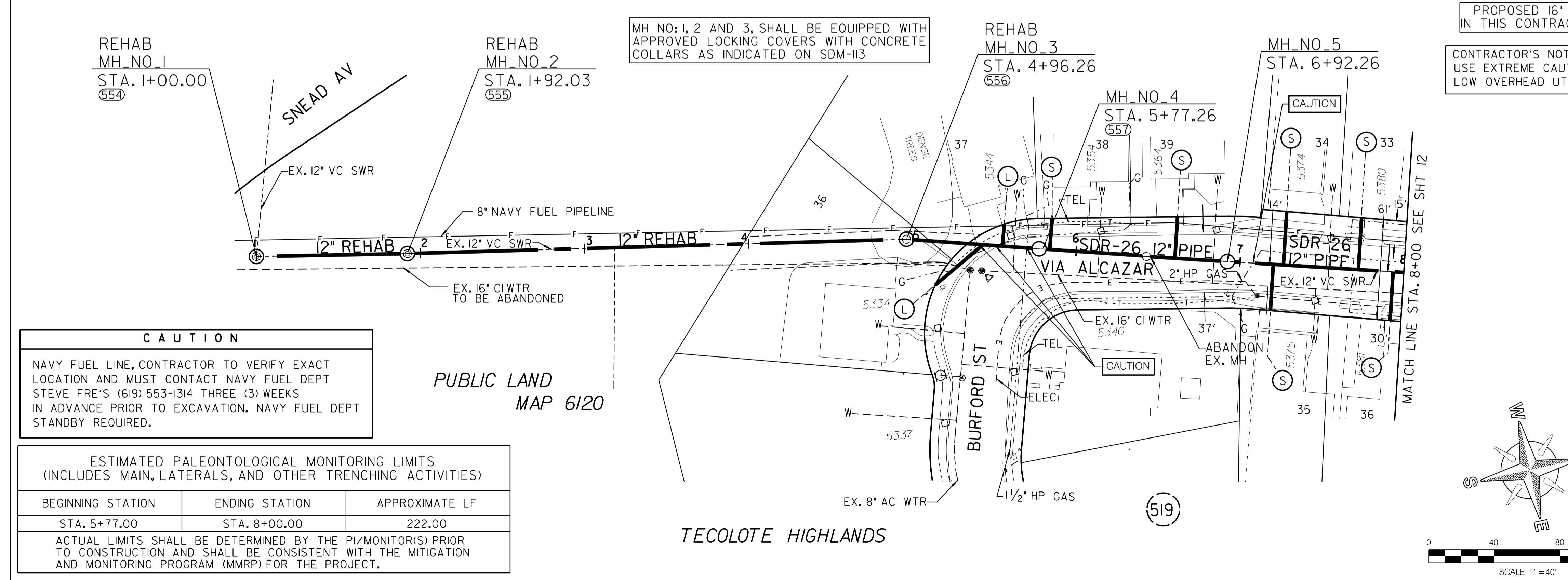
Element: Linear
 POB (554) 1+00.00 1870227.89 6273384.91
 PI (555) 1+92.03 1870316.59 6273409.44
 Tangential Direction: 0.27
 Tangential Length: 92.03

Element: Linear
 PI (555) 1+92.03 1870316.59 6273409.44
 PI (556) 4+96.26 1870610.59 6273487.68
 Tangential Direction: 0.26
 Tangential Length: 304.24

Element: Linear
 PI (556) 4+96.26 1870610.59 6273487.68
 PI (557) 5+77.26 1870686.38 6273516.26
 Tangential Direction: 0.36
 Tangential Length: 81.00

Element: Linear
 PI (557) 5+77.26 1870686.38 6273516.26
 PI (558) 7+02.26 1870803.54 6273559.83
 Tangential Direction: 0.36
 Tangential Length: 125.00

SCALE
 1"=40' HORIZ.
 1"=4' VERT.



PROPOSED 16" AND 8" WTR INCLUDED
 IN THIS CONTRACT, SEE SHT 3 AND 8.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO
 LOW OVERHEAD UTILITY LINES.

REFERENCE:
 WATER: 13015-2-D,
 SEWER: 3426-0-D, 3427-0-D
 STORM DRAIN:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G6

RETIREMENTS:
 12" - VC SWR - 700.00' - 1956
 4" LATERAL - 8 - MATERIAL - 1956
 MH -4X3-5-1956

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT
 LOCATION AND MUST CONTACT NAVY FUEL DEPT
 STEVE FRE'S (619) 553-1314 THREE (3) WEEKS
 IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT
 STANDBY REQUIRED.

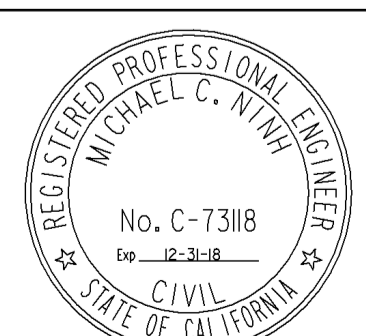
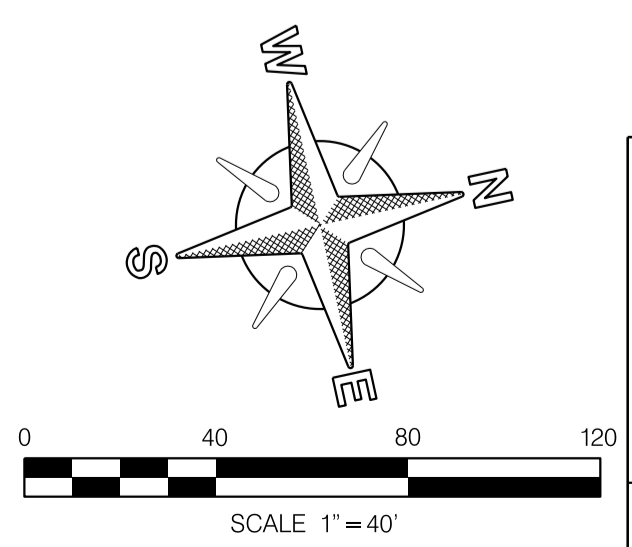
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 5+77.00	STA. 8+00.00	222.00

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR
 TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION
 AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

PUBLIC LAND
 MAP 6120

TECOLOTE HIGHLANDS



WATER AND SEWER GROUP 966
 ESASEMENT MAP 6120 AND VIA ALCAZAR
 STA 1+00.00 TO 8+00.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 11 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael NINH</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
DATE STARTED		DATE FILMED
DATE COMPLETED		
CONTRACTOR INSPECTOR		37929-11-D

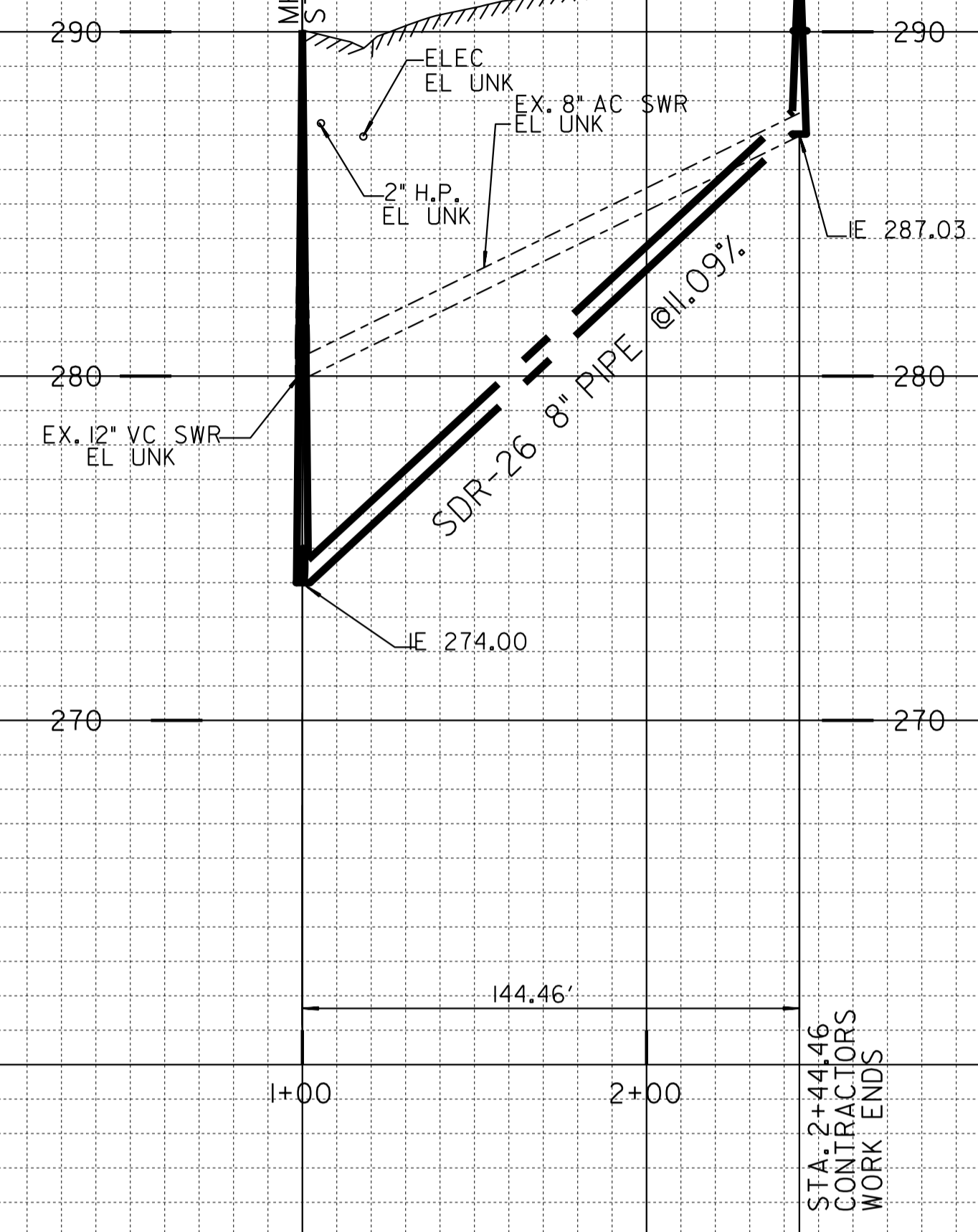
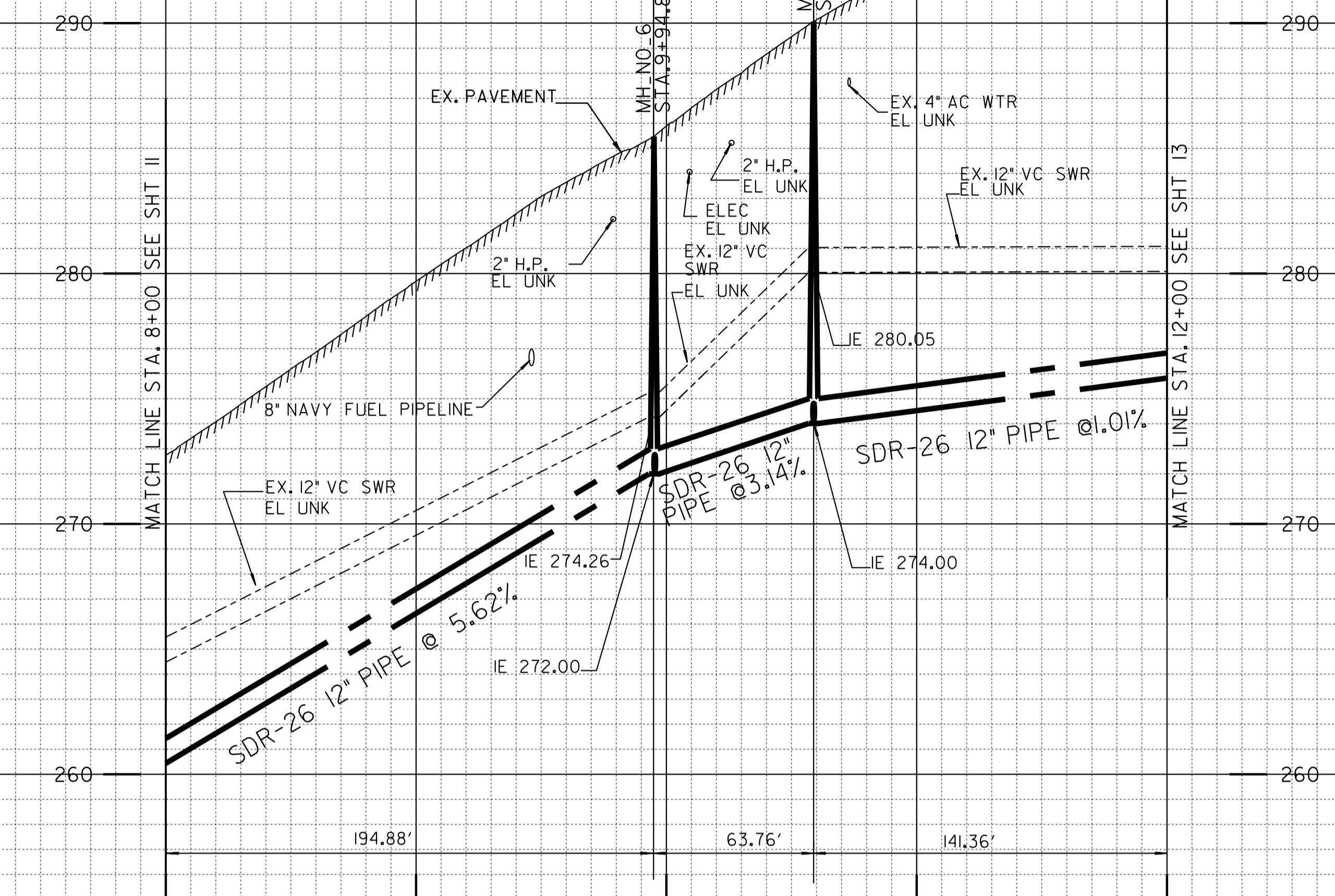
C-9

Element: Linear
 PI (558) 7+02.26 1870803.54 6273559.83
 PI (559) 9+94.89 1871078.34 6273660.40
 Tangential Direction: 0.35
 Tangential Length: 292.63

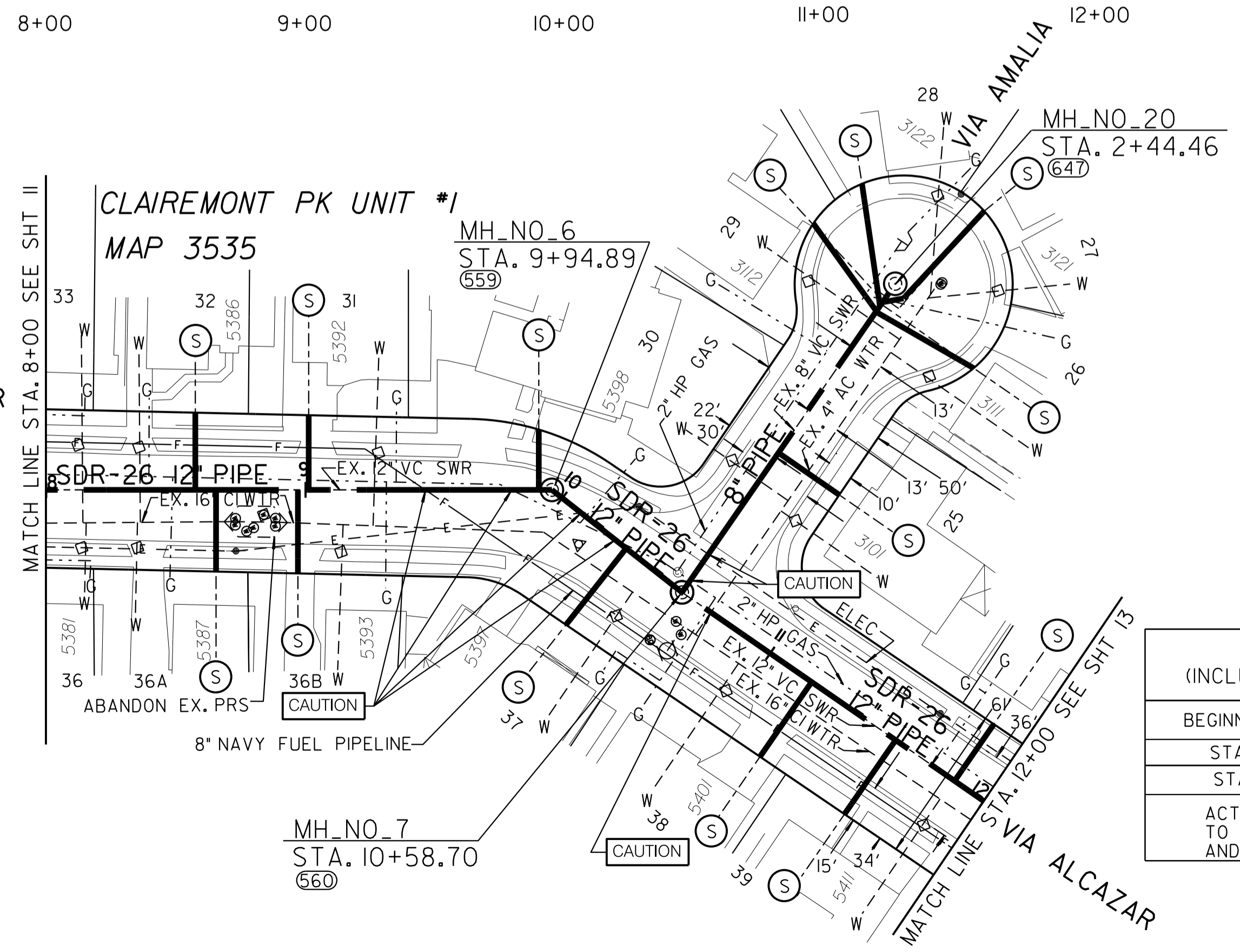
Element: Linear
 PI (560) 10+58.70 1871111.88 6273714.68
 Tangential Direction: 1.02
 Tangential Length: 63.81

Alignment Name: 8
 Alignment Description:
 Alignment Style: Default
 Station Northing Easting

Element: Linear
 POB (646) 1+00.00 1871111.88 6273714.68
 POE (647) 2+44.46 1871229.87 6273631.33
 Tangential Direction: 5.6
 Tangential Length: 144.46



SCALE
 1"=40' HORIZ.
 1"=4' VERT.



CAUTION

NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

NOTE:
 EX 16" CI WATER WILL BE ABANDONED FROM STA 10+28.26 TO STA 28+20 INCLUDED IN THIS CONTRACT. SEE WATER SHEETS FOR NEW ALIGNMENT

PROPOSED 16" AND 8" WTR INCLUDED IN THIS CONTRACT, SEE SHT 3.

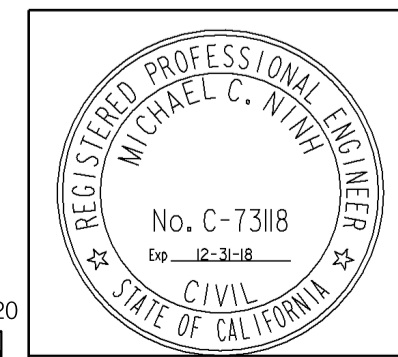
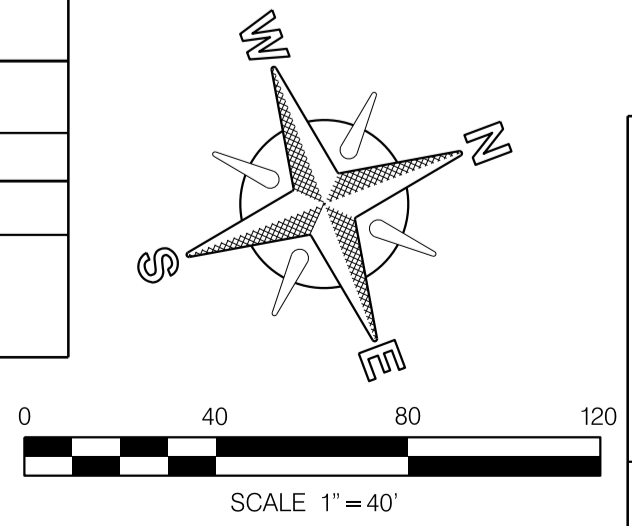
REFERENCE:
 WATER: 13015-2-D, 3432-0-D, 3427-0-D
 SEWER: 3427-0-D, 3432-0-D
 STORM DRAIN:
 100' SCALE/FIELD BOOK: EI45
 THOMAS BROS.: I248G6

RETIREMENTS:
 12" - VC SWR - 400.00' - 1956
 8" - VC SWR - 144.46' - 1956
 4" LATERAL - 14 - MATERIAL - 1956
 MH - 4X3 - 3 - 1956

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 8+00.00	STA. 12+00.00	400
STA. 1+00.00	STA. 1+45.00	145

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.



**WATER AND SEWER GROUP 966
 VIA ALCAZAR AND VIA AMALIA
 STA 8+00.00 TO 12+00.00 AND STA 1+00.00 TO 2+44.46**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 12 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 DATE	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY JS/JR	APPROVED
DATE STARTED		DATE FILMED
DATE COMPLETED		DATE COMPLETED
CONTRACTOR INSPECTOR		6274318-1872737 CCS83 COORDINATE 37929-12-D

C-10

VIA ALCAZAR AND VIA AMALIA

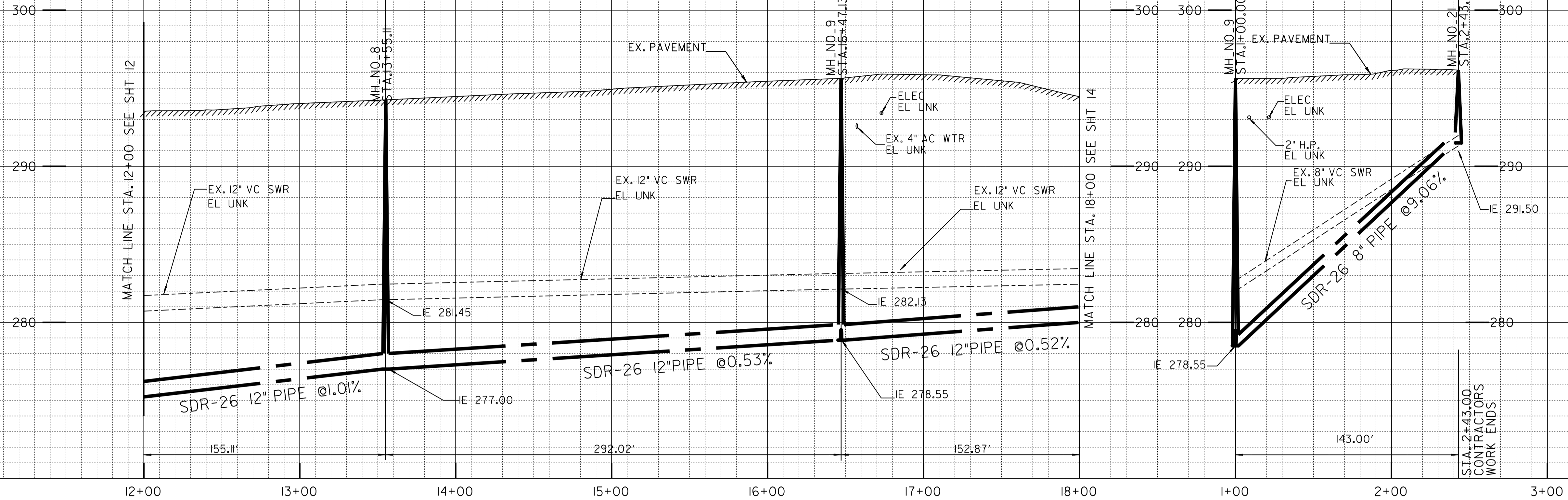
Element: Linear
 PI (560) 10+58.70 187111.88 6273714.68
 PI (561) 13+55.11 1871282.89 6273956.80
 Tangential Direction: 0.96
 Tangential Length: 296.42

Element: Linear
 POB (634) 1+00.00 1871452.63 6274194.46
 POE (648) 2+43.00 1871568.93 6274111.25
 Tangential Direction: 5.66
 Tangential Length: 143.00

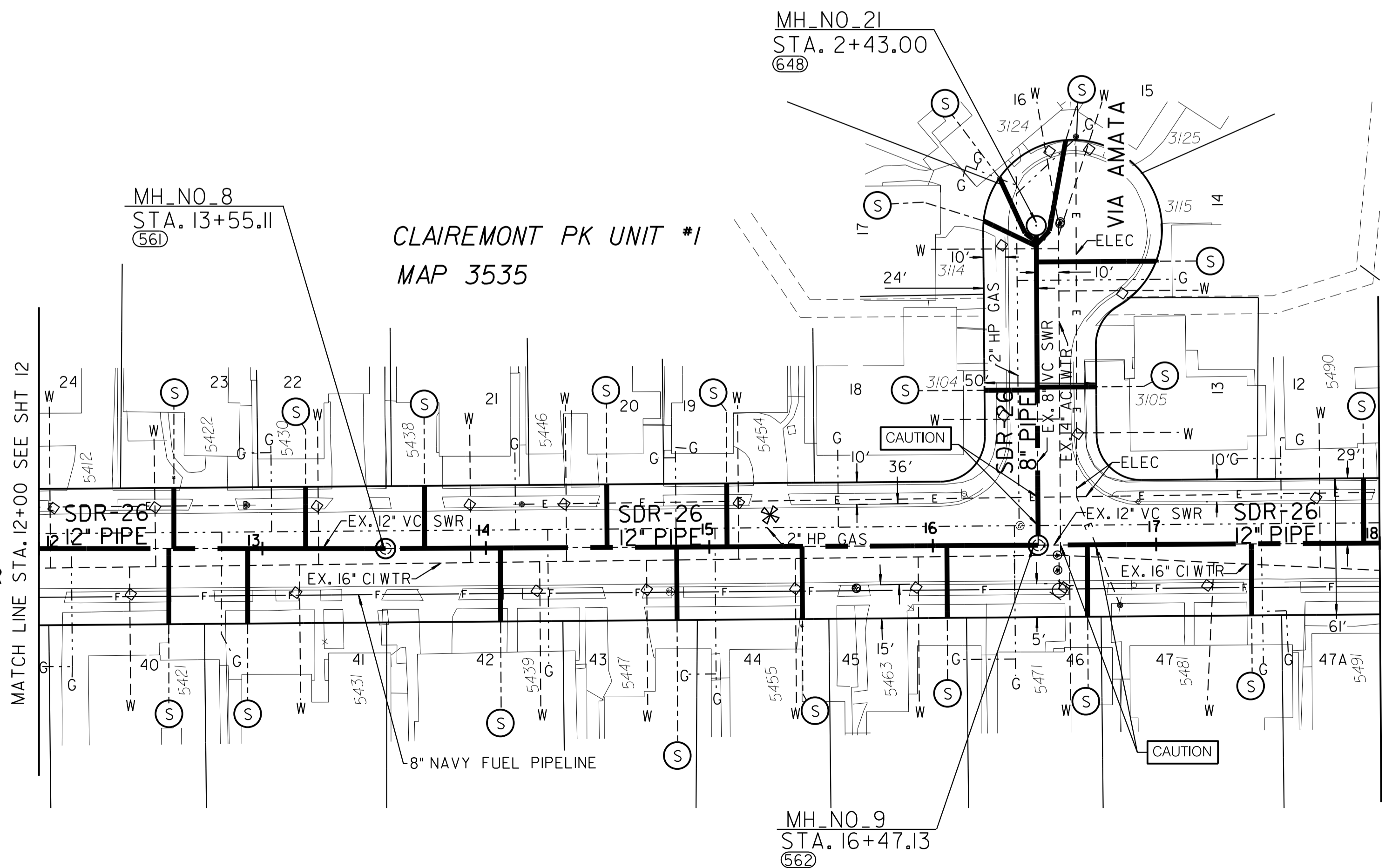
Alignment Name: 9
 Alignment Description:
 Alignment Style: Default
 Station Northing Easting

VIA ALCAZAR

VIA AMATA



SCALE
 1"=40' HORIZ.
 1"=4' VERT.



ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 12+00.00	STA. 18+00.00	600.00
STA. 1+00.00	STA. 2+43.00	143.00

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

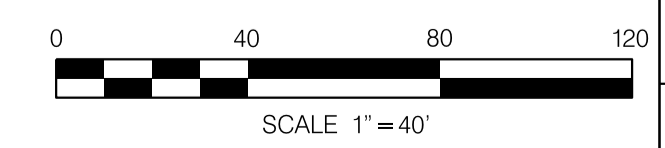
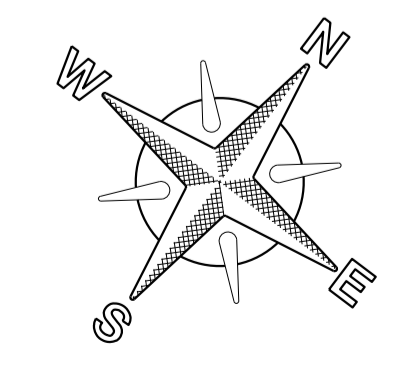
REFERENCE:
 WATER: 13015-2-D, 3432-0-D, 3427-0-D
 SEWER: 3427-0-D, 3432-0-D
 STORM DRAIN:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248C6

RETIREMENTS:
 12" - VC SWR - 600' - 1956
 8" - VC SWR - 143.00' - 1956
 4" LATERAL - 20 - MATERIAL - 1956
 MH - 4X3 - 3 - 1956

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

PROPOSED 16" AND 8" WTR INCLUDED IN THIS CONTRACT, SEE SHT 4.



WATER AND SEWER GROUP 966
 VIA ALCAZAR AND VIA AMATA
 STA 12+00.00 TO 18+00.00 AND STA 1+00.00 TO 2+43.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 13 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
DATE STARTED		DATE COMPLETED
230-1707 CCS27 COORDINATE		6274318-1872737 CCS83 COORDINATE
37929-13-D		

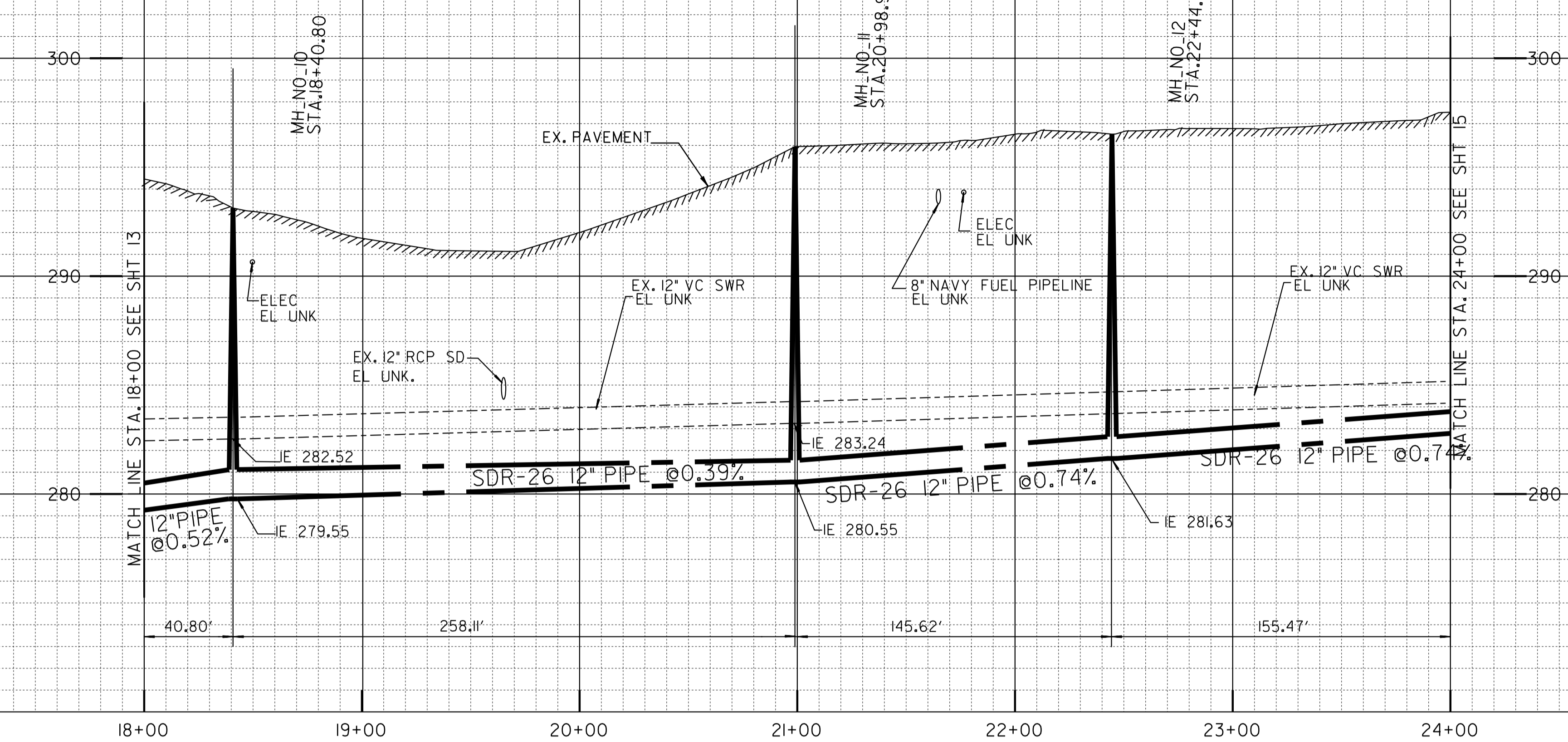
C-11

VIA ALCAZAR AND VIA AMATA

Element: Linear
 PI (562) 18+47.13 1871452.63 6274194.46
 PI (563) 18+40.80 1871565.31 6274351.94
 Tangential Direction: 0.95
 Tangential Length: 193.64

Element: Linear
 PI (563) 18+40.80 1871565.31 6274351.94
 PI (564) 20+98.91 1871823.43 6274349.99
 Tangential Direction: 6.28
 Tangential Length: 258.12

Element: Linear
 PI (564) 20+98.91 1871823.43 6274349.99
 PI (565) 22+44.53 1871962.18 6274394.18
 Tangential Direction: 0.31
 Tangential Length: 145.63



SCALE
 1"=40' HORIZ.
 1"=4' VERT.

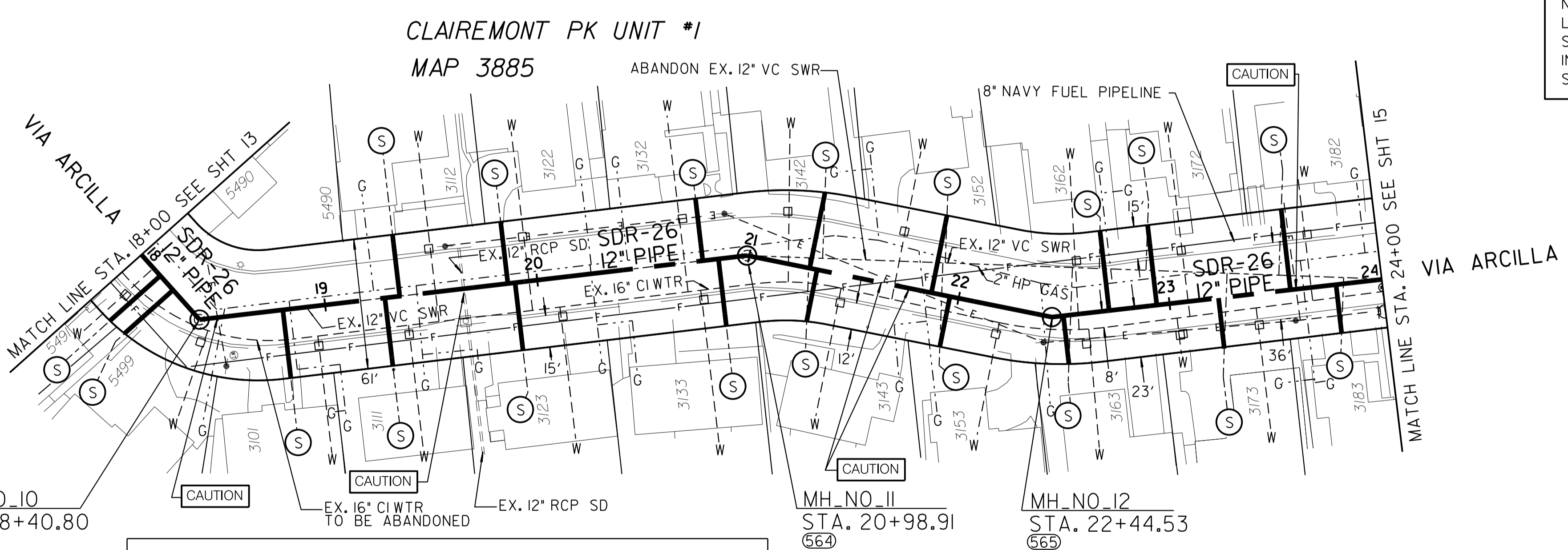
CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

PROPOSED 16" WTR INCLUDED IN THIS CONTRACT, SEE SHT 5.

REFERENCE:
 WATER: 3428-0-D, 3427-0-D, 3425-0-D, 3433-0-D
 SEWER: 3428-0-D, 3429-0-D, 3433-0-D
 STORM DRAIN:
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G6

RETIREMENTS:
 12" - VC SWR - 600' - 1956
 4" LATERAL - 19 - MATERIAL - 1956
 MH - 4X3 - 3 - 1956



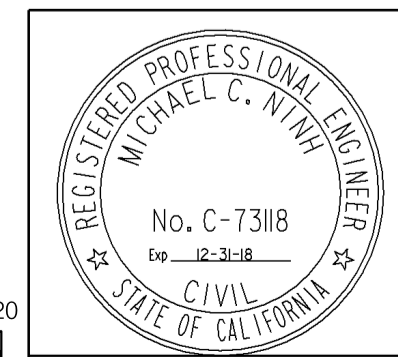
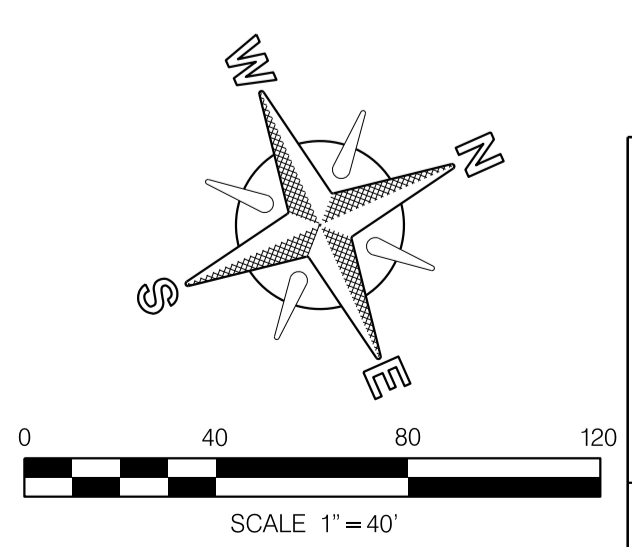
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 20+99.00	STA. 24+00.00	301.00

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 20+99.00	STA. 24+00.00	301.00

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

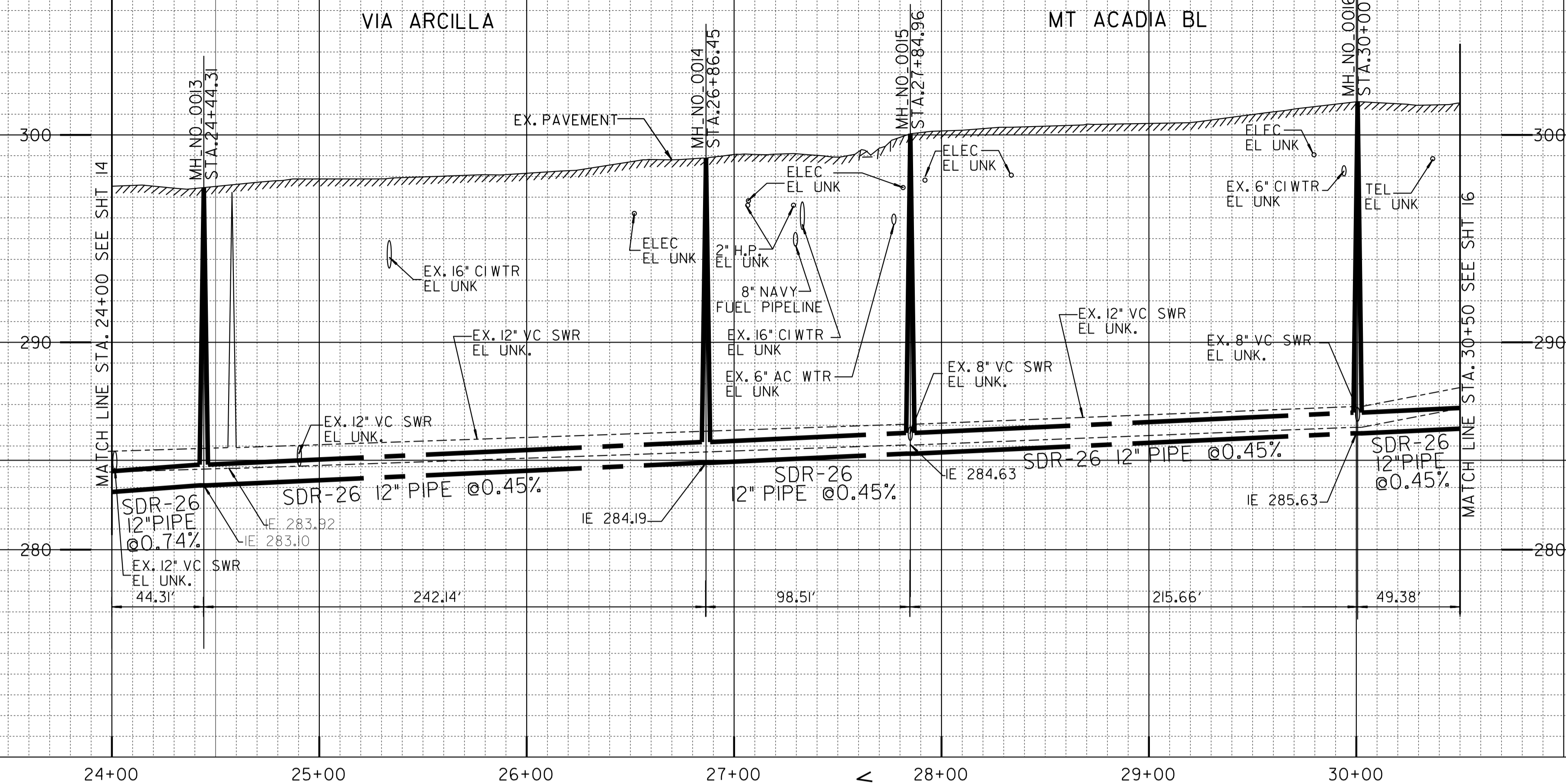


WATER AND SEWER GROUP 966
 VIA ARCILLA
 STA 18+00.00 TO 24+00.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 14 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085		
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	JS/JR			
		230-1707 CCS27 COORDINATE		
		6274318-1872737 CCS83 COORDINATE		
CONTRACTOR		DATE STARTED		37929-14-D
INSPECTOR		DATE COMPLETED		

C-12

VIA ARCILLA



Element: Linear
 PI (565) 22+44.56 1871962.18 6274394.18
 PI (566) 24+44.31 1872161.96 6274393.23
 Tangential Direction: 6.28
 Tangential Length: 199.78

Element: Linear
 PI (566) 24+44.31 1872161.96 6274393.23
 PI (567) 26+86.45 1872404.12 6274390.66
 Tangential Direction: 6.27
 Tangential Length: 242.17

Element: Circular
 PC (567) 26+86.45 1872404.12 6274390.66
 PI (567) 27+37.33 1872439.78 6274354.46
 CC (568) 1872546.58 6274531.03
 PT (569) 27+84.96 1872488.41 6274339.68
 Radius: 200.00
 Delta: 0.50 Right
 Degree of Curvature (Arc): 0.50
 Length: 99.53
 Chord: 50.82
 Chord Direction: 5.74
 Middle Ordinate: 6.16
 External: 6.36
 Tangent Direction: 5.49
 Radial Direction: 0.79
 Radial Direction: 1.28
 Tangent Direction: 5.99

Element: Linear
 PI (569) 27+84.96 1872488.41 6274339.68
 PI (570) 30+00.62 1872704.07 6274340.14
 Tangential Direction: 0.00
 Tangential Length: 215.67

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

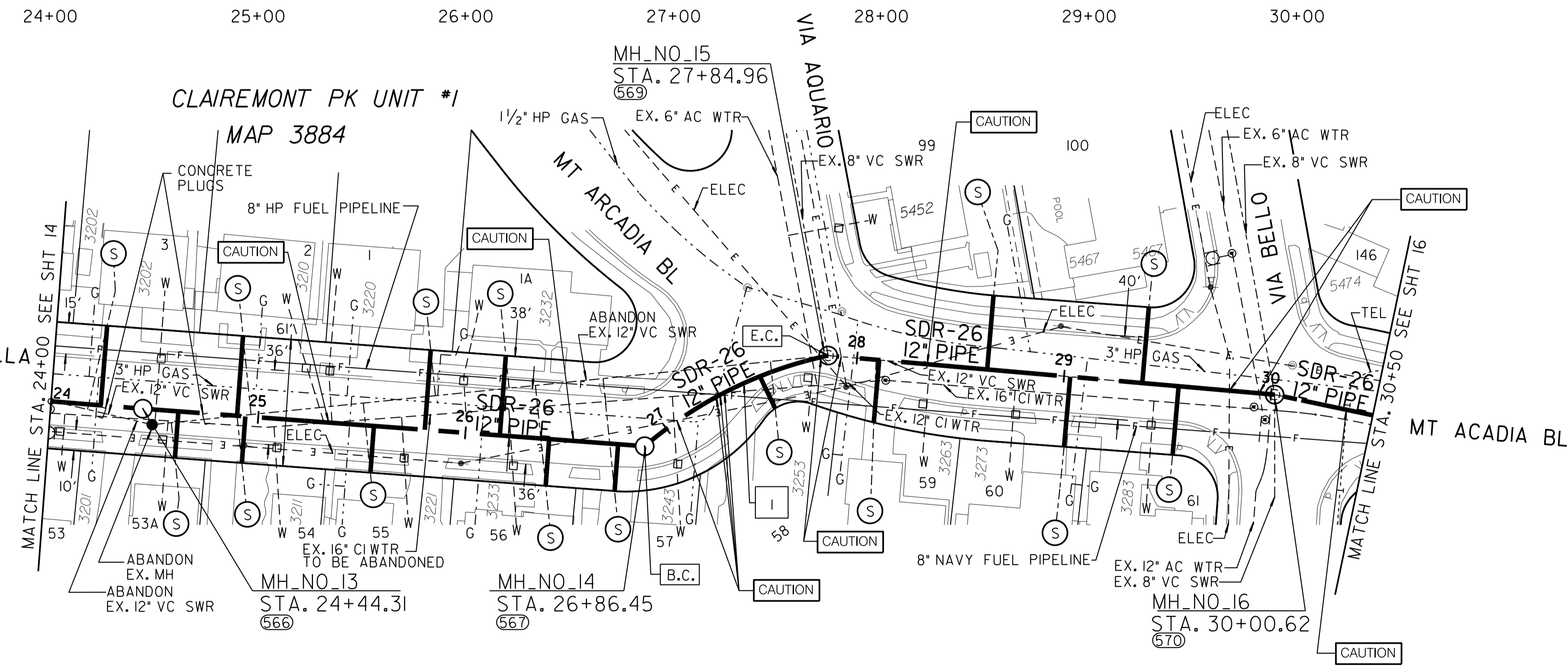
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 24+00.00	STA. 27+85.00	395.00

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 24+00.00	STA. 30+50.00	650.00

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

SCALE
 1"=40' HORIZ.
 1"=4' VERT.



PROPOSED 16" WTR INCLUDED IN THIS CONTRACT, SEE SHT 6.

REFERENCE:
 WATER: 3428-0-D, 3427-0-D, 3425-0-D, 3433-0-D
 SEWER: 3428-0-D, 3429-0-D, 3433-0-D
 100' SCALE/FIELD BOOK: E14S
 THOMAS BROS.: I248G6

RETIREMENTS:
 12" - VC SWR - 650.00' - 1956
 4" LATERAL - 15 - MATERIAL - 1956
 MH - 4X3 - 3 - 1956

C-13

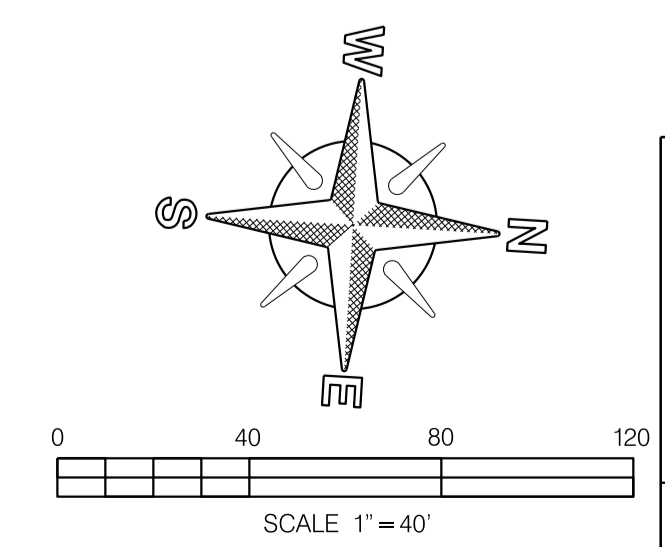
WATER AND SEWER GROUP 966
 VIA ARCILLA AND MT ACADIA BL
 STA 24+00.00 TO 30+50.00

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 15 OF 20 SHEETS	WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael NINH</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 PROJECT MANAGER MARYAM LIAGHAT PROJECT ENGINEER JAMAL SHERZAI
DESCRIPTION BY APPROVED DATE FILMED	ORIGINAL JS/JR
230-1707 CCS27 COORDINATE 6274318-1872737 CCS83 COORDINATE	
CONTRACTOR INSPECTOR DATE STARTED DATE COMPLETED	
37929-15-D	

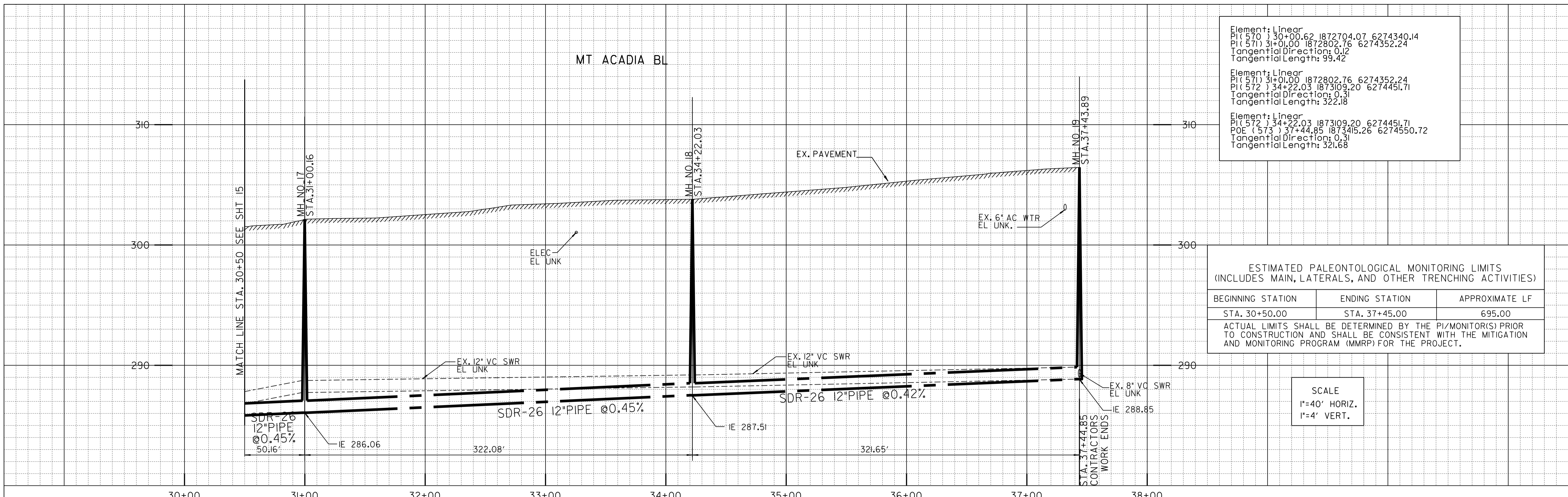
CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

No.	B.C.	E.C.	△	RADIUS	LENGTH	REMARKS
1	1872488.40 6274339.67	1872404.11 6274390.66	28° 30' 55"	200.00'	99.53'	12" PIPE



VIA ARCILLA AND MT ACADIA BL



Element: Linear
 PI (570) 30+00.62 1872704.07 6274340.14
 PL (571) 31+01.00 1872802.76 6274352.24
 Tangential Direction: 0.12
 Tangential Length: 99.42

Element: Linear
 PI (572) 34+22.03 1873009.20 6274451.71
 PL (573) 37+44.85 1873415.26 6274550.72
 Tangential Direction: 0.31
 Tangential Length: 322.18

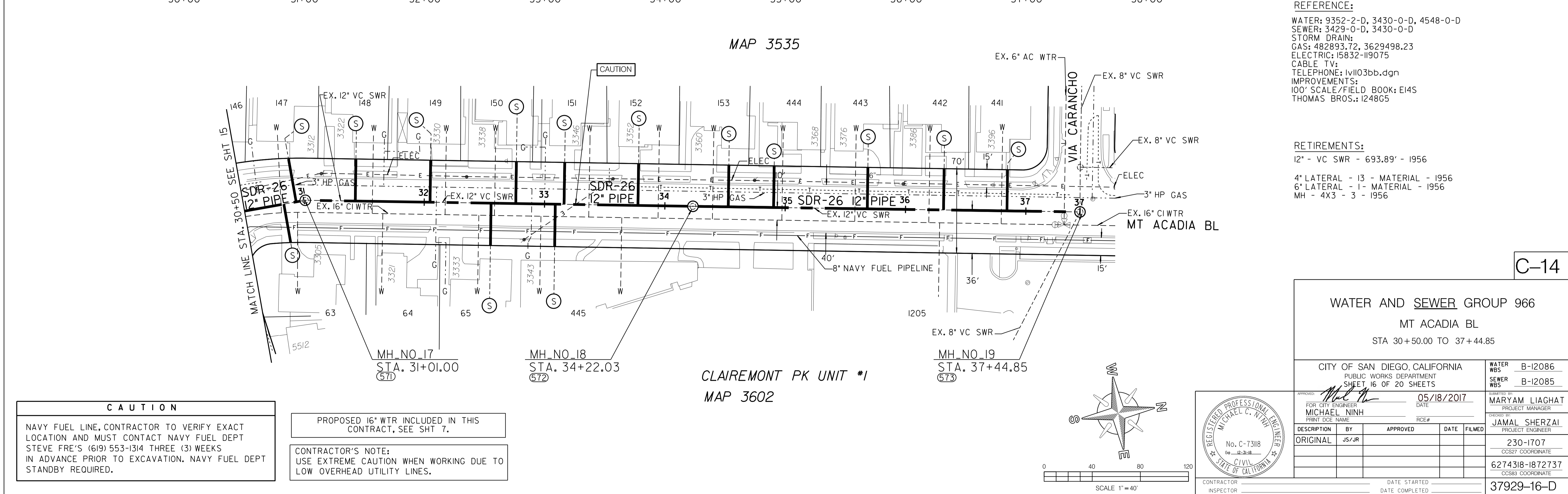
Element: Linear
 PI (572) 34+22.03 1873009.20 6274451.71
 PL (573) 37+44.85 1873415.26 6274550.72
 Tangential Direction: 0.31
 Tangential Length: 321.68

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
 (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 30+50.00	STA. 37+45.00	695.00

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMP) FOR THE PROJECT.

SCALE
 1"=40' HORIZ.
 1"=4' VERT.



REFERENCE:
 WATER: 9352-2-D, 3430-0-D, 4548-0-D
 SEWER: 3429-0-D, 3430-0-D
 STORM DRAIN:
 GAS: 482893.72, 3629498.23
 ELECTRIC: 15832-119075
 CABLE TV:
 TELEPHONE: lv1103bb.dgn
 IMPROVEMENTS:
 100' SCALE/FIELD BOOK: E145
 THOMAS BROS.: 1248G5

RETIREMENTS:
 12" - VC SWR - 693.89' - 1956
 4" LATERAL - 13 - MATERIAL - 1956
 6" LATERAL - 1 - MATERIAL - 1956
 MH - 4X3 - 3 - 1956

CAUTION
 NAVY FUEL LINE, CONTRACTOR TO VERIFY EXACT LOCATION AND MUST CONTACT NAVY FUEL DEPT STEVE FRE'S (619) 553-1314 THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. NAVY FUEL DEPT STANDBY REQUIRED.

PROPOSED 16" WTR INCLUDED IN THIS CONTRACT, SEE SHT 7.
 CONTRACTOR'S NOTE:
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

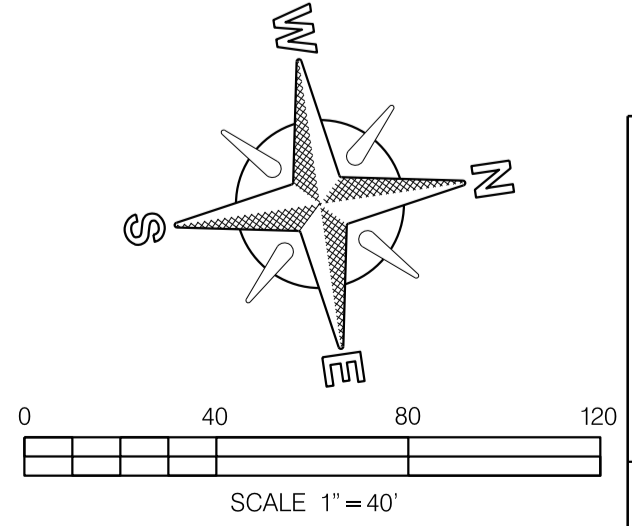
WATER AND SEWER GROUP 966
 MT ACADIA BL
 STA 30+50.00 TO 37+44.85

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 16 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017 RCE#	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
DATE STARTED		DATE FILMED
DATE COMPLETED		
CONTRACTOR INSPECTOR		6274318-1872737 CCS83 COORDINATE
		37929-16-D

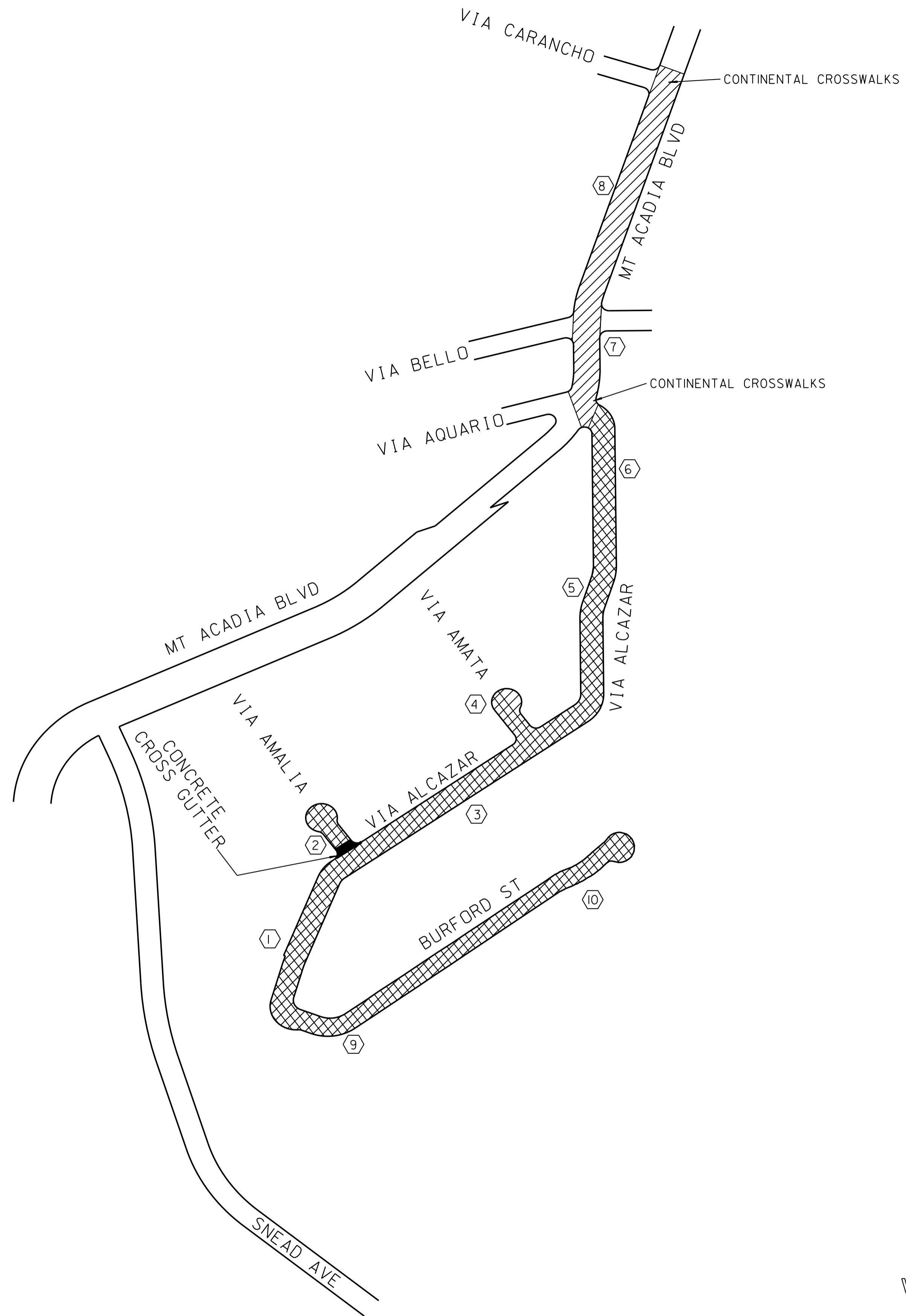
C-14

MT ACADIA BL

CLAIREMONT PK UNIT #1
 MAP 3602

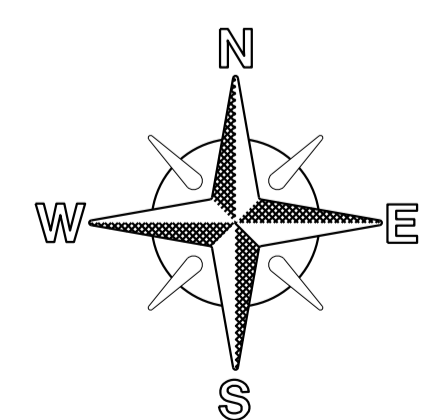


PAVING SCHEDULE NOTES						
NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	APPROX. WIDTH	APPROX. AREA
1	VIA ALCAZAR	2" AC OVERLAY	1+00.00	7+00.00	32.00	19,200
2	VIA AMALIA	2" AC OVERLAY	1+00.00	2+51.00	26.65	6,319
3	VIA ALCAZAR	2" AC OVERLAY	7+00.00	13+00.00	31.38	20,006
4	VIA AMATA	2" AC OVERLAY	1+00.00	2+51.00	26.65	6,506
5	VIA ARCILLA	2" AC OVERLAY	13+00.00	19+00.00	31.38	18,828
6	VIA ARCILLA	2" AC OVERLAY	19+00.00	23+00.00	37.18	12,552
7	MT ACADIA BL	3" AC OVERLAY	23+00.00	26+50.00	31.38	10,983
8	MT ACADIA BL	3" AC OVERLAY	26+50.00	33+62.73	32.00	25,312
9	BURFORD ST	2" AC OVERLAY	1+00.00	5+50.00	29.56	13,302
10	BURFORD ST	2" AC OVERLAY	5+50.00	12+03.34	32.00	17,192
TOTAL AREA OF AC OVERLAY						150,200 SF

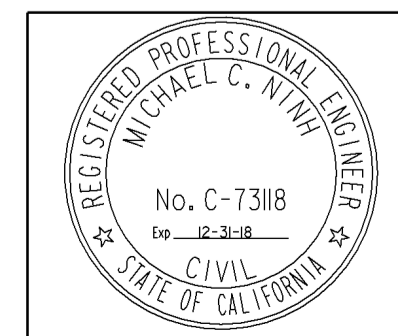


LEGEND	
	APPROXIMATE LIMITS OF RESURFACE 2" AC OVERLAY
	APPROXIMATE LIMITS OF RESURFACE 3" AC OVERLAY
	CONCRETE CROSS GUTTER
	LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
	COLD MILLING ASPHALT CONCRETE PAVEMENT

NOTE:
 CONTRACTOR MUST CONTACT THE METROPOLITAN TRANSIT SYSTEM NO LESS THAN ONE WEEK BEFORE THE REQUIRED CLOSURE OF ANY BUS STOP OR DETOUR OF ANY TRAFFIC FROM EITHER DIRECTION OF FIRST AVE., SECOND AVE., FOURTH AVE., FOR ROADWAY DETOURS OR MTS BUS STOP CLOSURE, CONTACT MICHELE SHEPHERD AT (619) 238-0100 X6451.



NO SCALE



G-3

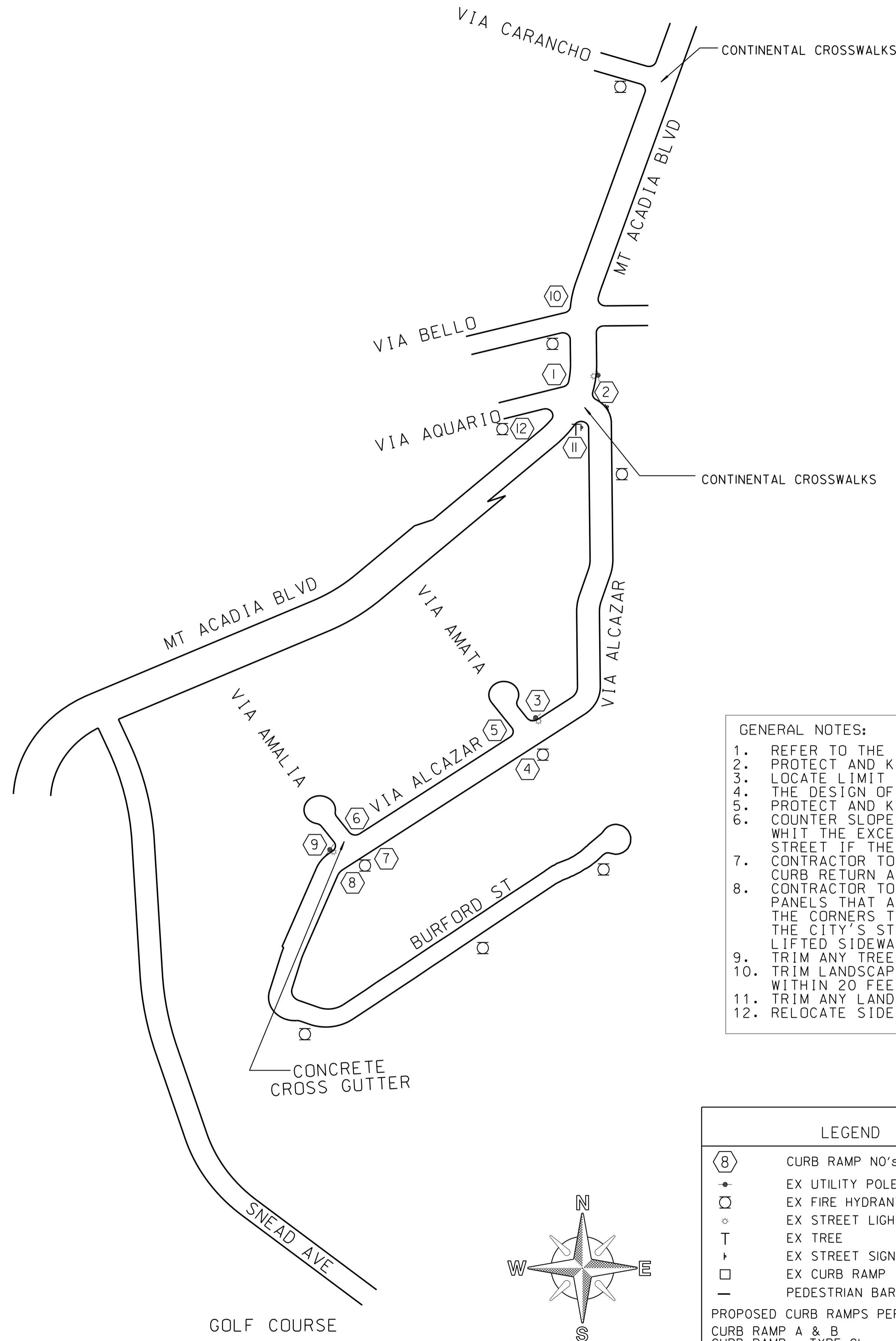
**PLANS FOR THE CONSTRUCTION OF
 WATER AND SEWER GROUP 966
 STREET RESURFACING**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 17 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED BY: <i>Michael Ninh</i> MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
		DATE
		FILED
		230-1707 CCS27 COORDINATE
		6274318-1872737 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	37929-17-D
INSPECTOR	DATE COMPLETED	

STREET RESURFACING

CURB RAMP NOTES TABLE										
LOCATION NO	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS		
					• STAINLESS STEEL	• OTHER				
1	A	X				X		WITH 2 CURB RAMPS		
2	A	X				X		WITH 2 CURB RAMPS		
3	A	X				X				
4	B	X				X				
5	A	X				X				
6	A	X				X				
7	B	X				X				
8	B	X				X				
9	C2	X				X				
10	B	X				X				
11	A	X				X	X	WITH 2 CURB RAMPS / REMOVE FENCE		
12	C2	X				X	X	WITH 2 CURB RAMPS / REMOVE FENCE		
TOTAL					TYPE A	CURB RAMPS	6			
TOTAL					TYPE B	CURB RAMPS	4			
TOTAL					TYPE C2	CURB RAMPS	2			
TOTAL						CURB RAMPS	12			

NOTE:
CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.



- GENERAL NOTES:
- REFER TO THE CITY'S APPROVED MATERIALS LIST FOR DETECTABLE WARNING TILES PRODUCTS.
 - PROTECT AND KEEP ALL HISTORIC STAMPS WITHIN SIDEWALKS.
 - LOCATE LIMIT LINES BEFORE EACH CURB RAMP. RESTRIPE USING 12"-WIDE WHITE THERMOPLASTIC.
 - THE DESIGN OF THE CURB RAMP SHALL NOT AFFECT THE DRAINAGE PATTERN ON THE STREET.
 - PROTECT AND KEEP ALL HISTORIC STAMPS WITHIN CORNER SIDEWALKS.
 - COUNTER SLOPES (CURB RAMP SLOPE PLUS STREET SLOPE) WHEN ADDED CANNOT EXCEED 13%. WITH THE EXCEPTION OF A TYPE C2 AND C1, ADJUST THE SLOPE OF THE MAIN RAMP AND/OR STREET IF THE COUNTER SLOPE EXCEEDS 5.0%.
 - CONTRACTOR TO REPLACE LIFTED, DAMAGED OR MISSING SIDEWALK PANELS WITHIN THE ENTIRE CURB RETURN AND ALONG THE IMMEDIATE SIDEWALK AREAS LEADING TO THE CURB RETURN.
 - CONTRACTOR TO NOTIFY THE RESIDENT ENGINEER OF ANY OTHER DAMAGED AND LIFTED SIDEWALK PANELS THAT ARE OUTSIDE THE SCOPE OF WORK BUT WITHIN THE PROJECT AREA AND LEADING TO THE CORNERS THAT WILL BE IMPROVED BY THE PROJECT. THE RESIDENT ENGINEER SHALL CONTACT THE CITY'S STREET DIVISION TO REQUEST FOR AN IMMEDIATE REPAIR OF THE DAMAGED AND/ OR LIFTED SIDEWALK PANELS.
 - TRIM ANY TREE OVERHANG THAT IS LOWER THAN 7'6" WITHIN THE ENTIRE CURB RETURN.
 - TRIM LANDSCAPING AT THE CORNER DOWN 24 INCHES OR LESS AS MEASURED FROM THE ROAD SURFACE WITHIN 20 FEET FROM THE CENTER OF THE CURB RETURN.
 - TRIM ANY LANDSCAPING OVERGROWTH ON SIDEWALK AROUND CURB RETURN.
 - RELOCATE SIDEWALK UNDERDRAIN PIPE.

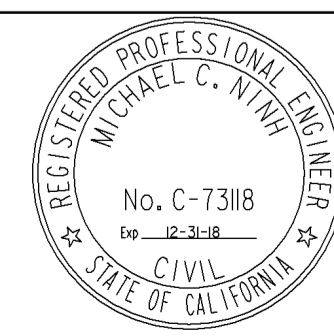
G-4

LEGEND

- ⬡ CURB RAMP NO's
- EX UTILITY POLE
- EX FIRE HYDRANT
- EX STREET LIGHT
- T EX TREE
- ┆ EX STREET SIGN
- EX CURB RAMP
- PEDESTRIAN BARRICADE

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

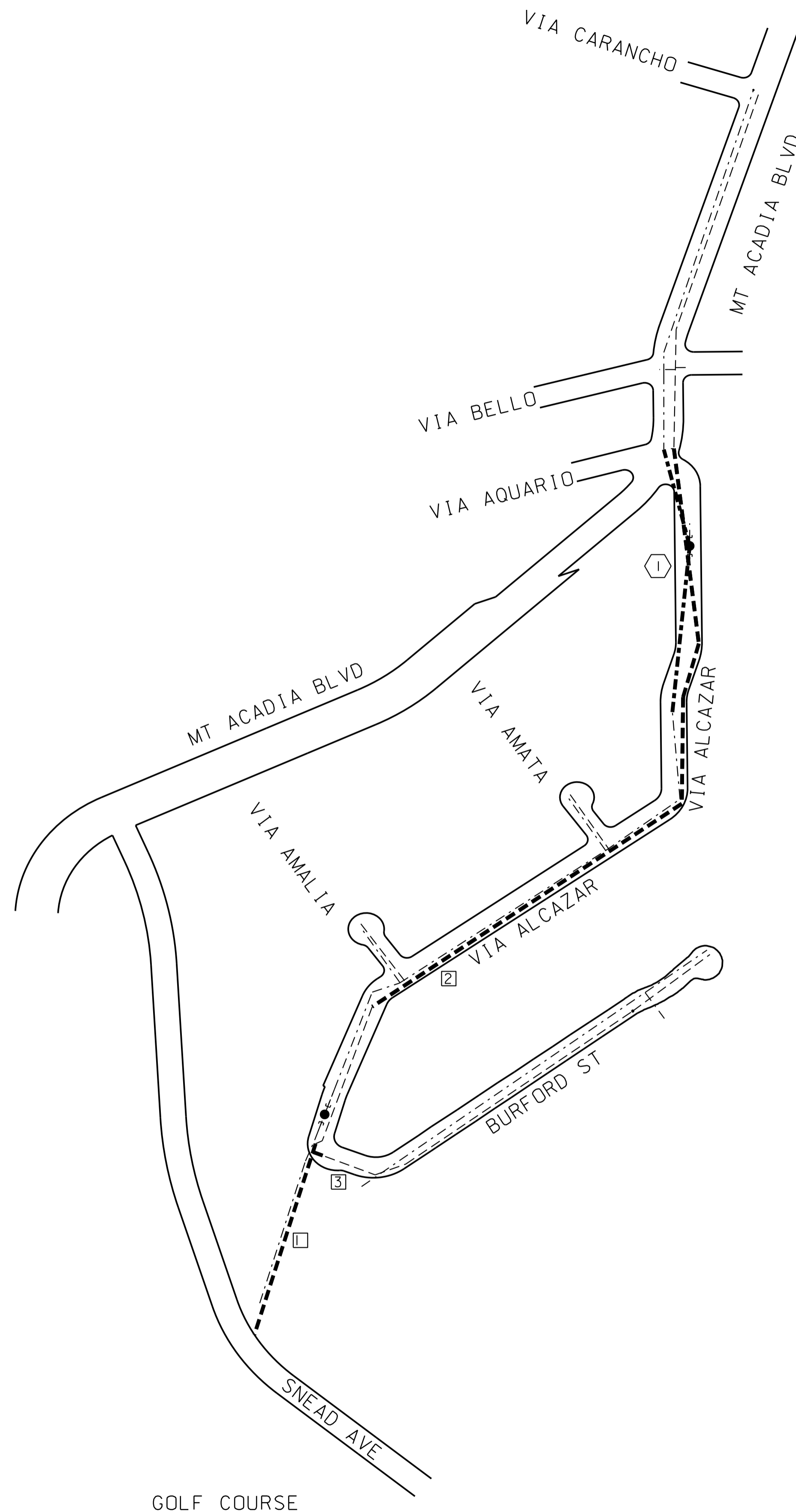
CURB RAMP A & B	SDG-132
CURB RAMP - TYPE C1	SDG-134
CURB RAMP - TYPE C2	SDG-135
CURB RAMP - TYPE D	SDG-136
GENERAL CURB RAMP NOTES & SUPPLEMENTAL DETAILS	SDG-130
EX STAMP/IMPRESSION PLACEMENT	SDG-115



PLANS FOR THE CONSTRUCTION OF
WATER AND SEWER GROUP 966
CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 18 OF 20 SHEETS	WATER WBS B-12086 SEWER WBS B-12085				
APPROVED: <i>Michael Ninh</i> FOR CITY ENGINEER MICHAEL NINH PRINT DCE NAME	SUBMITTED BY: MARYAM LIAGHAT PROJECT MANAGER				
DATE: 05/18/2017	CHECKED BY: JAMAL SHERZAI PROJECT ENGINEER				
DESCRIPTION	BY	APPROVED	DATE	FILMED	230-1707 CCS27 COORDINATE
ORIGINAL	JS/JR				6274318-1872737 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	37929-18-D			
INSPECTOR	DATE COMPLETED				

CURB RAMP LOCATION

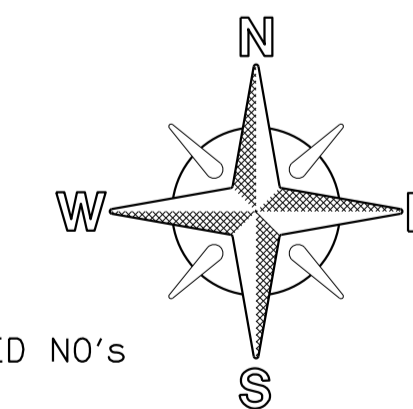


SEWER MAIN TO BE ABANDONED				
NO	LOCATION	SIZE OF PIPE	MATERIAL	LENGTH FT
1	VIA ALCAZAR	12	VC	674.36
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
TOTAL SEWER MAIN TO BE ABANDONED				674.36

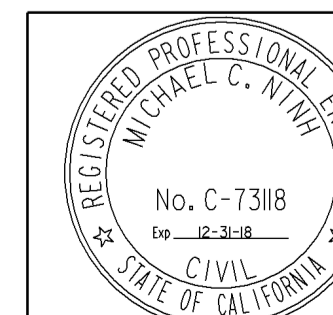
WATER MAIN TO BE ABANDONED				
NO	LOCATION	SIZE OF PIPE	MATERIAL	LENGTH FT
1	EASMENT MAP 6120	16"	CI	632.93
2	VIA ALCAZAR	16"	CI	1,803.98
3	BURFORD ST	8"	AC	33.26
TOTAL WATER MAIN TO BE ABANDONED				2,470.17

LEGEND

- NO WATER MAIN TO BE ABANDONED NO's
- NO SEWER MAIN TO BE ABANDONED NO's
- WATER MAIN TO BE ABANDONED
- SEWER MAIN TO BE ABANDONED
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- (X)--- ABANDON EX MANHOLE



NO SCALE



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PLANS FOR THE CONSTRUCTION OF
WATER AND SEWER GROUP 966
SEWER & WATER ABANDONMENT

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 20 OF 20 SHEETS		WATER WBS B-12086 SEWER WBS B-12085
APPROVED BY <i>Michael Ninh</i> MICHAEL NINH PRINT DCE NAME	DATE 05/18/2017	SUBMITTED BY MARYAM LIAGHAT PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	JS/JR	
		DATE
		FILMED
		230-1707 CCS27 COORDINATE
		6274318-1872737 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	37929-20-D
INSPECTOR	DATE COMPLETED	

SEWER & WATER ABANDONMENT