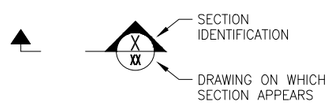
GENERAL LEGEND

- WATER METER
- EXISTING CONTROL POINT
- NEW CONTROL POINT/ ELEVATION POINT
- TEST PITS
- EXPLORATORY BORING
- PIEZOMETERS
- PIPE W/ CAP
- SPOT ELEVATION
- TREE, SHRUB
- WATER LEVEL ELEVATION
- SLOPE GRADIENT (HOR. : VERT.) (1.5:1)
- FLOW LINE
- CUT SLOPE
- FILL SLOPE
- EXISTING GRADE CONTOUR (230)
- FINISHED GRADE CONTOUR (245)
- GATE POST (GP)
- GUY ANCHOR
- POWER POLE, STEEL
- WATER PIPE MANHOLE/AIR RELEASE VALVE (MH/AV)
- INSPECTION MANWAY (MH)
- CHECK VALVE
- REDUCER
- UTILITY POLE
- EXISTING INCLINOMETER (IN-3)
- TELEPHONE POLE (TP)
- BFV COVER AND CONCRETE PAD
- GAS VALVE
- TELELPHONE MH OR BOX
- COMMUNICATION BOX
- TRANSMISSION TOWER
- SANITARY SEWER RODDING INLET (RI)
- WATER VALVE (WV)
- BLOWOFF VALVE (BO)
- COMBINATION AIR RELEASE VALVE (AIR)
- ANODE
- CLEAN-OUT (CO)

- BUBBLE UP
- STORM DRAIN MANHOLE
- SEWER MANHOLE
- EXISTING WATER VALVE
- FIRE HYDRANT
- WATER STRUCTURE
- WELL
- WATER VAULT
- CATCH BASIN
- TRANSFORMER W/PAD
- TRANSFORMER SUBSURFACE
- ELECTRICAL BOX
- STREETLIGHT
- STREETLIGHT AND UTILITY POLE
- MANHOLE ELECTRICAL
- ELECTRIC TEST STATION
- ROCK SURFACE
- NATURAL GROUND OR GRADE
- BACKFILL
- AC BERM
- CONCRETE
- STAGING AREA
- (E) UTILITY REMOVED FROM SERVICE
- (E) UTILITY REMOVED FROM SERVICE AND FILLED WITH CONCRETE SLURRY
- AGGREGATE / BALLAST
- HYDROSEED
- CLEAR & GRUB
- EXISTING TO BE DEMOLISHED
- (N) ASPHALTIC CONCRETE
- AGGREGATE BASE
- (E) ASPHALTIC CONCRETE
- FOUNDATION STONE
- INITIAL BACKFILL
- UNDISTURBED SOIL
- BUILDING

- FENCE
- COASTAL BOUNDARY
- TAMC RIGHT OF WAY
- CALTRANS RIGHT OF WAY
- PARCEL BOUNDARY
- CITY LIMITS
- LIMITS OF WORK
- GAS LINE
- WATER LINE
- NEW WATER LINE
- RECYCLED WATER LINE
- SANITARY SEWER LINE
- STORMDRAIN LINE
- ELECTRICAL LINE
- ELECTRICAL OVERHEAD LINE
- TEL/AT&T LINE
- IRRIGATION LINE
- DRAIN SWALE
- COMCAST UNDERGROUND
- COMCAST OVERHEAD
- SANITARY SEWER FORCED MAIN
- TELEPHONE LINE
- BRINE LINE WASTE WATER
- FIBER OPTIC
- FORCED MAIN
- SANTARY SEWER FORCED MAIN
- SANTARY OUTFALL

TYPICAL SECTION/DETAIL NUMBERING SYSTEM



SECTION
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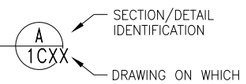

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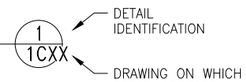

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HYMAN
No. C-50926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA
9/14/15

REVISIONS			
1	BID ADDENDUM 1	9/14/15	JAH

TRANSMISSION MAINS FOR MPWSP
GENERAL
TRANSFER PIPELINE
GENERAL LEGEND

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH

DATE SEPTMEBER 2015 USE DIMENSIONS ONLY
PROJECT 60424498 SCALE AS SHOWN

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

3003G02

10003003G02

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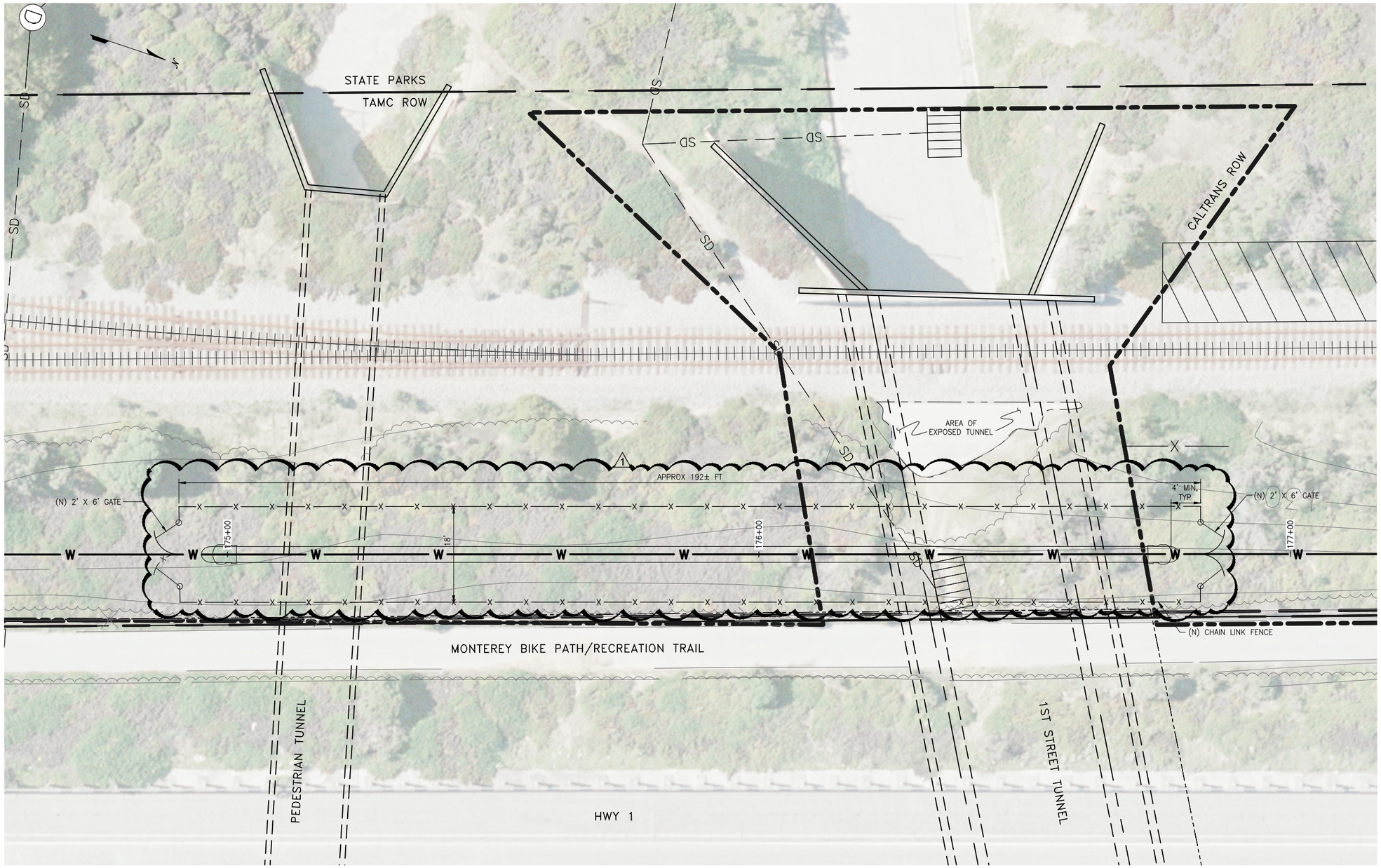

PLAN
1"=10'

NOTES:

1. SEE DETAILS ON SHEET 0000C70.

0 5 10 20 30
SCALE 1" = 10'

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HYMAN
No. C-50926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA
9/14/15

REVISIONS			
1	BID ADDENDUM 1	9/14/15	JAH

TRANSMISSION MAINS FOR MPWSP
CIVIL
TRANSFER PIPELINE
DETAILS OF 3C17

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH

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3003C17-A

10003003C17-A

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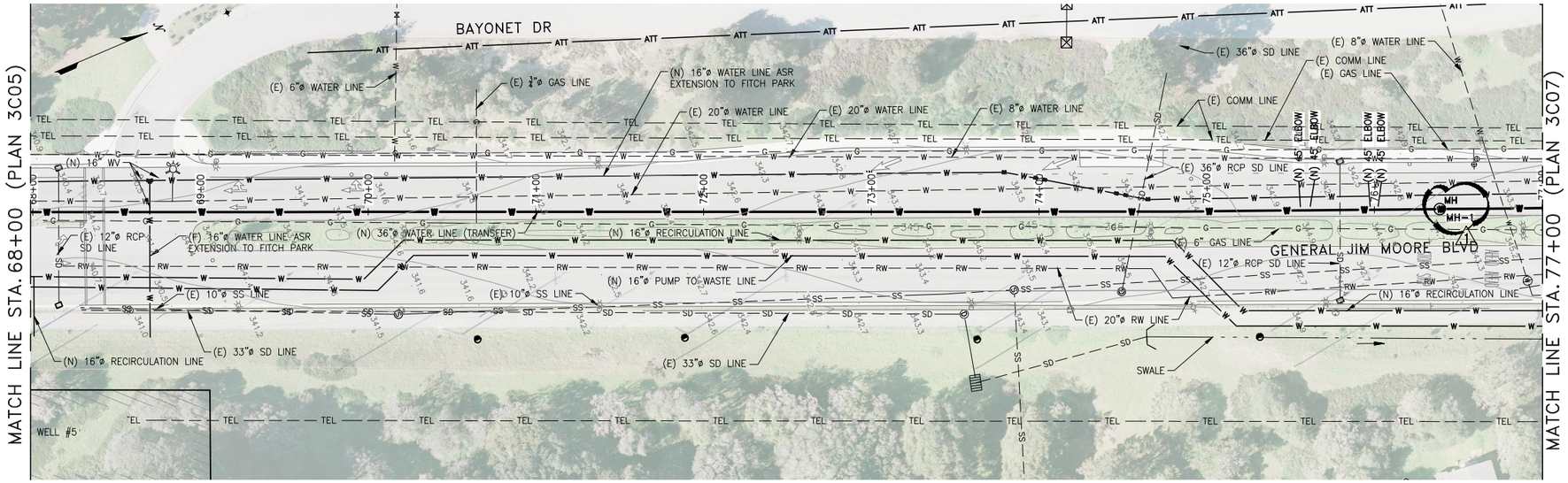
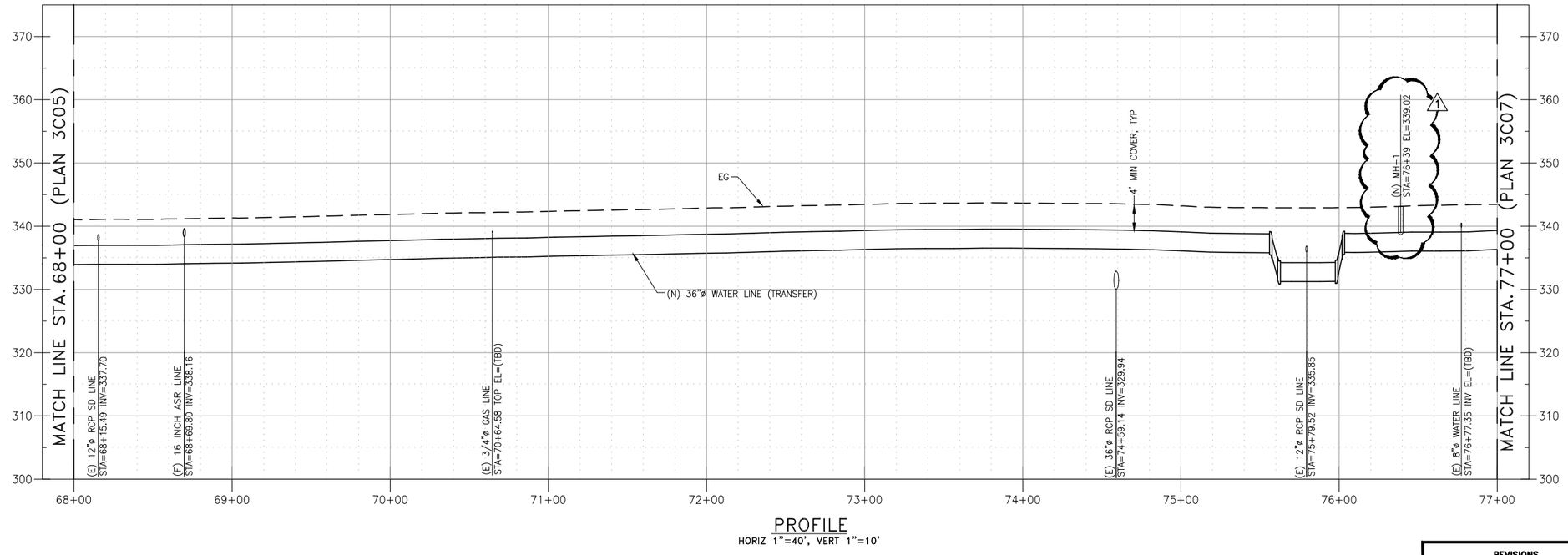


PLAN
1"=40'



PROFILE
HORIZ 1"=40', VERT 1"=10'

NOTES:

1.

REVISIONS			
1	BID ADDENDUM 1	9/14/15	JAH

REGISTERED PROFESSIONAL ENGINEER
JASPER A. FERGUSON III
No. C-50926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA
9/14/15

TRANSMISSION MAINS FOR MPWSP
CIVIL
TRANSFER PIPELINE
PLAN AND PROFILE STA 68+00 TO STA 77+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

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APPROVED C. SMITH
DATE SEPTMEBER 2015
PROJECT 60424498
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3003C06

10003003C06

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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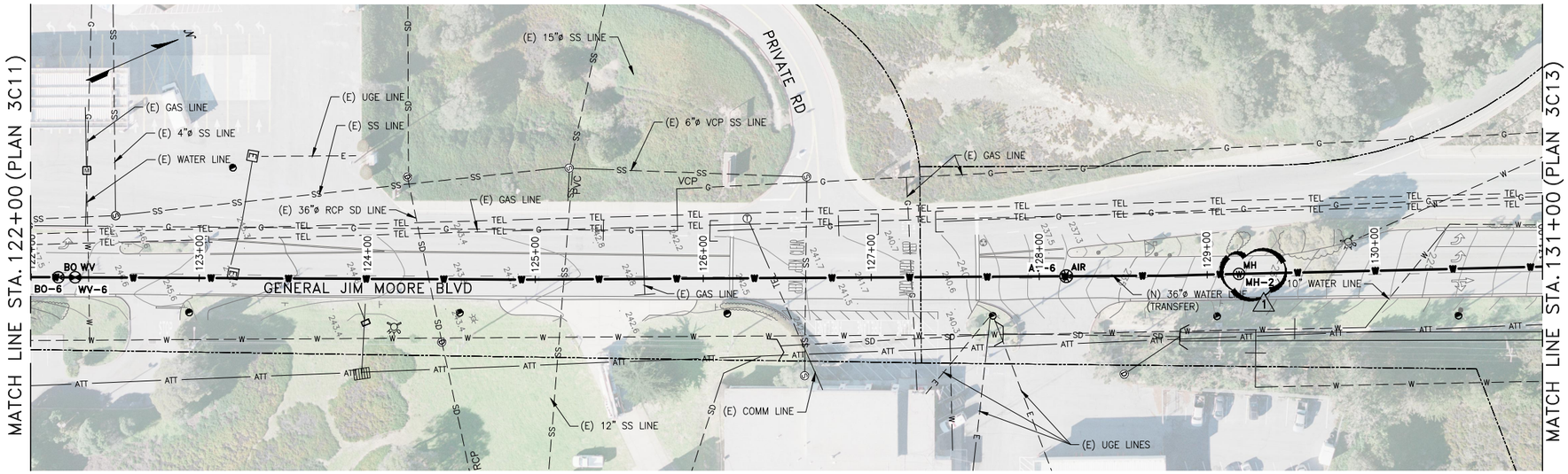
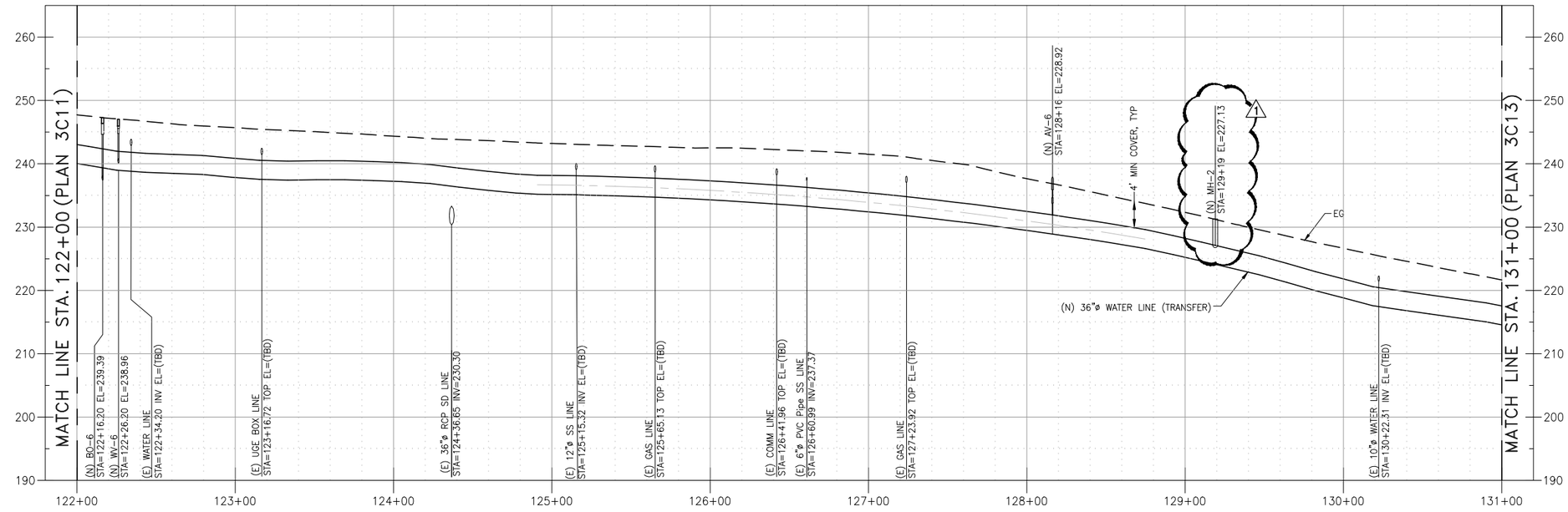


PLAN
1"=40'



PROFILE
HORIZ 1"=40', VERT 1"=10'

NOTES:

1.

REVISIONS			
1	BID ADDENDUM 1	9/14/15	JAH

TRANSMISSION MAINS FOR MPWSP
CIVIL
TRANSFER PIPELINE
PLAN AND PROFILE STA 122+00 TO STA 131+00

CALIFORNIA
AMERICAN WATER

AECOM
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OAKLAND, CALIFORNIA 94612

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PROJECT ENG'R J. HYMAN
APPROVED C. SMITH

DATE SEPTMEBER 2015 USE DIMENSIONS ONLY
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3003C12

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HYMAN
No. C-50926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA
9/14/15

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

10003003C12

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36" TRANSFER PIPELINE ALIGNMENT

WATER VALVE	
ID NO.	STA NO.
WV-1	23+50
WV-2	51+83
WV-3	67+85
WV-4	92+70
WV-5	106+26
WV-6	122+26
WV-7	133+81
WV-8	156+73
WV-9	166+46
WV+10	174+79
WV-11	184+42
WV-12	202+08
WV+13	221+21
WV-14	238+22
WV-15	249+50
WV+16	260+34
WV-17	287+03
WV-18	291+00
WV-19	298+17
WV-20	314+19
WV-21	324+24
WV-22	347+03
WV-23	360+64
WV-24	371+03
WV-25	389+92
WV-26	393+85
WV-27	410+79
WV-28	425+88
WV-29	451+23
WV-30	472+52
WV-31	491+94
WV-32	505+76
WV-33	520+17

BLOW-OFF VALVE	
ID NO.	STA NO.
BO-1	23+64
BO-2	51+41
BO-3	67+66
BO-4	92+53
BO-5	106+16
BO-6	122+16
BO-7	133+49
BO-8	156+80
BO-9	166+04
BO-10	174+66
BO-11	186+91
BO-12	201+90
BO-13	221+02
BO-14	238+03
BO-15	249+31
BO-16	260+15
BO-17	290+77
BO-18	298+03
BO-19	314+00
BO-20	324+00
BO-21	346+80
BO-22	360+41
BO-23	370+78
BO-24	389+72
BO-25	393+61
BO-26	410+52
BO-27	425+68
BO-28	451+00
BO-29	472+37
BO-30	479+62
BO-31	491+79
BO-32	505+56

COMBINATION AIR RELEASE VALVE		
ID NO.	STA NO.	SIZE
AV-1	43+32	6"
AV-2	60+50	6"
AV-3	77+78	2"
AV-4	95+66	6"
AV-5	112+51	4"
AV-6	128+16	6"
AV-7	152+63	6"
AV-8 (MH) 1	166+35	6"
AV-9	176+69	4"
AV-10	188+56	6"
AV-11 (MH) 1	218+45	6"
AV-12	243+55	6"
AV-13	252+48	4"
AV-14 (MH) 1	269+51	6"
AV-15	286+92	6"
AV-16	301+49	6"
AV-17	317+18	8"
AV-18 (MH) 1	330+03	6"
AV-19	342+50	8"
AV-20	353+58	6"
AV-21 (MH) 1	374+78	6"
AV-22	392+78	6"
AV-23	393+93	8"
AV-24	405+66	6"
AV-25	417+94	6"
AV-26 (MH) 1	431+50	6"
AV-27	459+90	4"
AV-28	474+37	6"
AV-29 (MH) 1	488+61	8"
AV-30	490+80	6"
AV-31	513+86	8"

(MH) = INSTALL COMBINATION MH/ARV 1

ELBOW	
TYPE	NUMBER
11.25°	9
22.50°	7
45.00°	87
90.00°	1

INSPECTION MANWAY	
ID NO.	STATION NO.
MH-1	76+39
MH-2	129+19

1

NOTES:

1. INSTALL WATER VALVE PER DETAIL SHEET 0000M10.
2. INSTALL BLOW-OFFS PER DETAIL SHEET 0000M11.
3. INSTALL COMBINATION ARV PER DETAIL SHEET 0000M13.
4. INSTALL COMBINATION MH/ARV PER DETAIL SHEET 0000M16. 1
5. INSTALL INSPECTION MANWAY PER DETAIL SHEET 0000M15. 1

REVISIONS			
1	BID ADDENDUM 1	9/14/15	JAH

REGISTERED PROFESSIONAL ENGINEER — JENNIFER A. TYMAN — No. C-50926 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

9/14/15

TRANSMISSION MAINS FOR MPWSP MECHNICAL TRANSFER PIPELINE VALVE TABLE

CALIFORNIA AMERICAN WATER

URS CORPORATION
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM

CALIFORNIA AMERICAN WATER

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH

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3003M00

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