CALIFORNIA
AMERICAN WATER

TRANSMISSION MAINS FOR MONTEREY PENINSULA WATER SUPPLY PROJECT (MPWSP)

FEED WATER PIPELINE

DRAWING INDEX No. 1000-6006-G00

GENERAL

SHEET NO.	TITLE
6006G00	COVER SHEET
6006G01	GENERAL ABBREVIATIONS
6006G02	GENERAL LEGEND
6006G03	GENERAL NOTES

CIVIL

SHEET NO.	TITLE
6006C00	KEY PLAN
6006C01	PLAN AND PROFILE STA 23+80.32 TO STA 27+00
6006C02	PLAN AND PROFILE STA 27+00 TO STA 36+00
6006C03	PLAN AND PROFILE STA 36+00 TO STA 45+00
6006C04	PLAN AND PROFILE STA 45+00 TO STA 54+00
6006C05	PLAN AND PROFILE STA 54+00 TO STA 63+00
6006C06	PLAN AND PROFILE STA 63+00 TO STA 72+00
6006C07	PLAN AND PROFILE STA 72+00 TO STA 81+50
6006C08	PLAN AND PROFILE STA 81+50 TO STA 91+00
6006C09	PLAN AND PROFILE STA 91+00 TO STA 99+00
6006C10	PLAN AND PROFILE STA 99+00 TO STA 108+00
6006C11	PLAN AND PROFILE STA 108+00 TO STA 117+00
6006C11-A	SECTIONS A AND B
6006C12	PLAN AND PROFILE STA 117+00 TO STA 126+00
6006C13	PLAN AND PROFILE STA 126+00 TO STA 135+00
6006C14	PLAN AND PROFILE STA 135+00 TO END

MECHANICAL

SHEET NO.	TITLE
6006M00	VALVE AND ELBOW TABLES

AECOM

AUGUST 2015

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XREFS:

GENERAL ABBREVIATIONS

A	AMPERE
AB	AGGREGATE BASE/ANCHOR BOLT
AC	ASPHALT CONCRETE/AESBESTOS CEMENT
ADAS	AUTOMATIC DATA ACQUISITION SYSTEM
ADD	ADDITION(AL)
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AL	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AREMA	AMERICAN RAILWAY ENGINEERING & MAINTENANCE-OF-WAY ASSOCIATION
ARV	AIR RELEASE VALVE
ASR	AQUIFER STORAGE & RECOVERY
ASSY	ASSEMBLY
ATS	ANODE BED TEST STATION
AV	AIR VALVE
AVG	AVERAGE
AVMH	AIR VALVE MANHOLE
AUX	AUXILIARY
BC	BEGIN CURVE
BEG	BEGIN(NING)
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BG	BILLION GALLONS
BLDG	BUILDING
BLK	BLACK
BLVD	BOULEVARD
BO	BLOW OFF
BOMH	BLOW-OFF MANHOLE
BOT	BOTTOM
BOF	BOTTOM OF FOOTING
BRG	BEARING
C	CONDUIT
CAW	CALIFORNIA AMERICAN WATER
CAP	CAPACITY
CB	CATCH BASIN/CIRCUIT BREAKER
C/C, CC	CENTER TO CENTER
℄	CENTER LINE
CDPH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIDH	CAST IN PLACE DRILLED HOLE
CIR	CIRCLE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CKT. NO.	CIRCUIT NUMBER
CK P	CHECKER PLATE L
CLR	CLEARANCE
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COF	CITY OF FREMONT
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECTION
COND	CONDUIT
CONT	CONTINUE/CONTINUOUS
CONST	CONSTRUCTION
CPLG	COUPLING
CSIP	CASTROVILLE SEAWATER INTRUSION PROJECT
CSUMB	CALIFORNIA STATE UNIVERSITY MONTEREY BAY
CTE	COAL TAR ENAMEL
CTEL	CONNECT TO EXISTING LINE
CTR	CENTER D DEPTH/DIAMETER
DET	DETAIL
DFT	DRY FILL THICKNESS
DI	DRAINAGE INLET/DUCTILE IRON
DIA, ø	DIAMETER
DIP	DUCTILE IRON PIPE
DIAG	DIAGRAM
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DN	DOWN
DR	DRAINAGE, DOOR
DWG	DRAWING

E	EAST OR EXISTING
EA	EACH
EB	END OF BRIDGE/EAST BOUND
EC	END CURVE
EE	EACH END
EF	EACH FACE
EG	EXISTING GROUND
EL	ELEVATION
ELEC	ELECTRICAL
ELL	ELBOW
EP	EDGE OF PAVEMENT
EPS	EXPANDED POLYSTYRENE
EOD	EDGE OF DECK
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
ETW	EDGE OF TRAVELED WAY
EW	EACH WAY
EXH	EXHAUST
(E)	EXISTING
EXP	EXPANSION
F	FUTURE
FB	FILLER BAR
FDN	FOUNDATION
FE	FLANGE END
FF	FAR FACE
FG	FINISHED GRADE
FIG	FIGURE
FIN	FINISHED
FL	FLOOR, FLOW LINE
FLEX	FLEXIBLE
FLG	FLAG(GED)
FORA	FORT ORD REUSE AUTHORITY
FPS	FEET PER SECOND
FS	FACTOR OF SAFETY
FT	FOOT
(F)	FUTURE
F/I	FURNISH AND INSTALL
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
GRTG	GRATING
GSKT	GASKET
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HGT	HEIGHT
H, HOR	HORIZONTAL
HP	HORSEPOWER, HIGH POINT, HIGH PRESSURE
HPI	HORIZONTAL POINT OF INTERSECTION
HR	HANDRAIL, HOUR
HSR	HIGH STRENGTH ROD
HVAC	HEAT, VENTILATING & AIR CONDITIONING
HV	HOSE VALVE
HWY	HIGHWAY
HYD	HYDRAULIC
ID	INSIDE DIAMETER
IFJ	INSULATED FLANGE JOINT
IN	INCH
INFO	INFORMATION
INST	INSTRUMENTATION
INV	INVERT
IR	IRRIGATION
JT	JOINT
JCT	JUNCTION
JP	JOINT POLE

L	LENGTH
LB	POUND
LEV	LEVEL
LT	LEFT
LONG	LONGITUDINAL
LN	LANE
LP	LOW POINT, LOW PRESSURE
LTG	LIGHTING
M, MTR	MOTOR
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MCC	MOTOR CONTROL CENTER
MCU	MEASUREMENT CONTROL UNIT
MCWD	MARINA COAST WATER DISTRICT
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MPWSP	MONTEREY PENINSULA WATER SUPPLY PROJECT
MRWMD	MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT
MRWPCA	MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY
N	NORTH OR NEW
NB	NORTH BOUND
NC	NORMALLY CLOSED
NEC, N.E.C.	NATIONAL ELECTRICAL CODE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NJD	NOMINAL JOINT DIAMETER
NO	NORMALLY OPEN, NUMBER
NPT	NATIONAL PIPE THREAD
NMWS	NORMAL MAXIMUM WATER SURFACE
NOM	NOMINAL
NTS	NOT TO SCALE
(N)	NEW
O&M	OPERATION & MAINTENANCE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND SURFACE
OH	OVERHEAD/OPPOSITE HAND
OPNG	OPENING
P	POLE
PB	PULL BOX
PC	PIECE, POINT OF CURVE
PCC	PORTLAND CEMENT CONCRETE
PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END
PG	PRESSURE GAGE/PRONG
PH	PHASE
PL, ℄	PLATE OR PROPERTY LINE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PMF	PROBABLE MAXIMUM FLOOD
POC	POINT OF CONNECTION
PRS	PRESSURE REGULATING STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT, POINT OF TANGENCY
PTFE	POLYTETRAFLUOROETHYLENE (TEFLON)
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT

R	RADIUS, RISER
RCP	REINFORCED CONCRETE PIPE
RC	REINFORCED CONCRETE
RD	ROAD OR ROOF DRAIN
RED	REDUCER
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQ'D, REQ	REQUIRED
RPP	REDUCED PRESSURE PRINCIPLE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RT	RIGHT
RUB	RUBBER
ROW	RIGHT OF WAY
RWQCB	REGIONAL WATER QUALITY CONTROL BOARD
R/W	RIGHT OF WAY
S	SLOPE
SB	SOUTH BOUND
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SMWS	------
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	SANITARY SEWER/STAINLESS STEEL
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL, STREET LIGHTING
STRUCT	STRUCTURE
SURF	SURFACE
SW	SEA WATER
SVR	SALINAS VALLEY RETURN
SYM ABT	SYMMETRIC ABOUT
T	TREAD
t	THICKNESS
T & B	TOP & BOTTOM
TEL	TELEPHONE/TELECOM
TEMP	TEMPORARY
TO	TOP OF
TOC	TOP OF CURB, TOP OF CONCRETE
TOT	TOTAL
TOW	TOP OF WALL
TYP	TYPICAL
THK	THICK
THRU	THROUGH
TS	TEST STATION
TYP	TYPICAL
UG, U/G	UNDERGROUND
UGE	UNDERGROUND ELECTRICAL
UON	UNLESS OTHERWISE NOTED
U/N, U.O.N.	UNLESS OTHERWISE NOTED

V, VERT	VERTICAL
VAC	VACUUM
VC	VERTICAL CURVE
VCP	VITREOUS CLAY PIPE
VL	VALVE
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION
V.I.F.	VERIFY IN FIELD
WB	WEST BOUND
WEF	WILDLIFE EXCLUSION FENCE
WI	WROUGHT IRON
W/	WITH
W/O	WITHOUT
W	WIDTH, WEST, WATER, WIRE
WD	WOOD
WHT	WHITE
WS	WATER SURFACE
WSE	WATER SURFACE EXIST
WSL	WATER SURFACE LEVEL
WSP	WELDED STEEL PIPE
WT	WATER TIGHT, WEIGHT
WV	WATER VALVE
YD	YARD
1d	EMBEDMENT LENGTH
#	NUMBER

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

REVISIONS

TRANSMISSION MAINS FOR MPWSP GENERAL FEED WATER PIPELINE GENERAL ABBREVIATIONS

CALIFORNIA AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM

CALIFORNIA AMERICAN WATER

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

DATE AUGUST 2015
PROJECT 60424498

USE DIMENSIONS ONLY
SCALE AS SHOWN

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GENERAL LEGEND

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

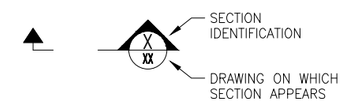
- CO — CLEAN-OUT
- B — BUBBLE UP
- D — STORM DRAIN MANHOLE
- S — SEWER MANHOLE
- EXISTING WATER VALVE
- FIRE HYDRANT
- W — WATER STRUCTURE
- WELL
- WATER VAULT
- CATCH BASIN
- TRANSFORMER W/PAD
- TRANSFORMER SUBSURFACE
- E — ELECTRICAL BOX
- STREETLIGHT
- STREETLIGHT AND UTILITY POLE
- (E) — MANHOLE 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

- x x x — FENCE
- COASTAL BOUNDARY
- TAMC RIGHT OF WAY
- CALTRANS RIGHT OF WAY
- PARCEL BOUNDARY
- CITY LIMITS
- LIMITS OF WORK
- G — GAS LINE
- W — WATER LINE
- W — NEW WATER LINE
- RW — RECYCLED WATER LINE
- SS — SANITARY SEWER LINE
- SD — STORMDRAIN LINE
- E — ELECTRICAL LINE
- (E)OH — ELECTRICAL OVERHEAD LINE
- ATT — TEL/AT&T LINE
- IR — IRRIGATION LINE
- DRAIN SWALE
- CC — COMCAST UNDERGROUND
- CC — COMCAST OVERHEAD
- SSFM — SANITARY SEWER FORCED MAIN
- T — TELEPHONE LINE
- BL — BRINE LINE WASTE WATER
- FO — FIBER OPTIC
- FM — FORCED MAIN
- SSFM — SANTARY SEWER FORCED MAIN
- SO — SANTARY OUTFALL

DEMOLITION LEGEND

- DEMOLITION
- ABANDON
- 1 — ITEMS TO BE PROTECTED
- 1 — ITEMS TO BE DEMOLISHED / REMOVED
- 1 — ITEMS TO BE SALVAGED / REUSED
- 1 — POINT ID
- TREE STUMP\ROOT TO BE REMOVED AS NEEDED

TYPICAL SECTION/DETAIL NUMBERING SYSTEM



REGISTERED PROFESSIONAL ENGINEER — JAMES A. HYMAN — No. C-30926 — Exp. 9/30/15 — CIVIL — STATE OF CALIFORNIA

REVISIONS

TRANSMISSION MAINS FOR MPWSP
GENERAL
FEED WATER PIPELINE
GENERAL LEGEND

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM — CALIFORNIA AMERICAN WATER

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GENERAL NOTES:

1. DIMENSIONS TAKE PRECEDENCE OVER GENERAL NOTES, TYPICAL DETAILS AND SCALED DETAILS.
2. THE UNDERGROUND UTILITIES SHOWN IN PLAN DRAWINGS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES. CONTRACTOR SHALL POTHOLE EXISTING PIPELINES TO VERIFY THE VERTICAL AND HORIZONTAL ALIGNMENT PRIOR TO PERFORMING EARTHWORK ADJACENT TO SAID PIPELINES. CONTACT USA (1-800-227-2600) PRIOR TO CONSTRUCTION.
3. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF UTILITY INFORMATION. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING AND SHALL PROTECT ALL EXISTING SERVICES FROM DAMAGE DUE TO HIS OPERATIONS. SUPPORT EXISTING UTILITIES THAT ARE EXPOSED DUE TO CONSTRUCTION ACTIVITIES.
4. UTILITY LATERALS SUCH AS WATER, GAS AND SEWER LATERALS ARE GENERALLY NOT SHOWN. IF THEY ARE DISPLAYED, LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL LOCATE AND PROTECT UTILITY LATERALS.
5. A. SEWER LINES BASED ON MAPS PROVIDED BY MRWPCA
   B. UTILITIES IN TAMC ROW ARE FROM CADD PROVIDED BY TAMC, SURVEYED BY TOWILL IN 2005.

SURVEY NOTES:

1. THE COORDINATES FOR THIS PROJECT ARE DERIVED FROM GPS OBSERVATIONS OVER A TWO MONTH PERIOD FROM NOVEMBER TO DECEMBER OF 2014. EQUIPMENT UTILIZED WAS A LEICA GS-14 GPS ROVER AND LEICA 1200 GPS ROVER. THE MEASUREMENTS WERE OBTAINED USING THE LEICA REAL TIME NETWORK, SMARTNET, AS THE BASE STATION. DATA WAS DOWNLOADED AND POST PROCESSED FOR THE SMARTNET-MONTEREY BASE STATION AND THREE LOCAL CORS STATIONS FOR TWO SEPARATE DAYS. THESE OBSERVATIONS WERE POST PROCESSED TO OBTAIN COORDINATES FOR THE MONTEREY BASE STATION.
2. THE COORDINATES WERE PROCESSED FROM THE PUBLISHED DATUM FOR THE CONTROL STATION (NAD 83(2011) EPOCH 2010.00) TO A MORE CURRENT DATUM (NAD 83(2011) EPOCH 2014.25) USING THE HORIZONTAL TIME-DEPENDANT POSITIONING (HTDP) TOOL PROVIDED BY NGS ON THEIR WEB SITE.
3. EACH CONTROL POINT IS MEASURED AT LEAST FOUR TIMES AT TWO DIFFERENT TIMES OF DAY TO CAPTURE DIFFERENT SATELLITE CONFIGURATIONS. THE DATA WAS ANALYZED TO BE SURE THAT THE MEAN VALUES OBTAINED USING LEICA SMARTWORK SOFTWARE FOR ALL COORDINATES WERE WITHIN LESS THAN +/-0.035' HORIZONTALLY AND +/-0.05' VERTICALLY.
4. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) AT NATIONAL GEODETIC SURVEY (NGS) BENCHMARK PID GU4116 DESIGNATED 941 3450M TIDAL WITH ELEVATION OF 11.70 FEET.
5. BASIS OF BEARING
   BEARINGS ARE BASED ON THE MERIDIAN OF THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 4, NAD 83 (2011), EPOCH 2014.25. THEY ARE DERIVED FROM NATIONAL GEODETIC SURVEY CONTINUOUSLY OPERATING REFERENCE STATIONS (NGS CORS) DATA PROCESSED USING HORIZONTAL TIME-DEPENDANT POSITIONING (HTDP) FROM NAD 83(2011) EPOCH 2010.00 TO NAD 83(2011) EPOCH 2014.25.
6. CORS STATIONS UTILIZED WERE ELKHORN SLOUGH (D17526 DESIGNATION - ELKHRNSLGHCN2005 CORS ARP), SANTA LUCIA (DH3876 DESIGNATION - SANTALUCIACN2004 CORS ARP) AND HOPKINS (DN7560 DESIGNATION - HDPKINSSTNCN2006 CORS ARP).

TOPOGRAPHICAL MAPPING

1. THE TOPOGRAPHIC/PLANIMETRIC MAPPING SHOWN HEREIN WAS COMPILED BY AERIAL PHOTOMAPPING SERVICES USING AERIAL PHOTOGRAPHY DATED 12/23/14 AT THE REQUEST OF URS/AECOM. THE STRIP MAPPING BEGINS AT PACIFIC GROVE TO THE SOUTH AND CONTINUES NORTH WHERE IT ENDS AT THE MRWPCA. CONTROL WAS PROVIDED BY POLARIS CONSULTING, CARMEL VALLEY CA. 831-659-9564.
2. AERIAL PHOTOGRAPHY OUTSIDE THE PIPELINE I50 FEET IS FROM U.S. GEOLOGICAL SURVEY, ORTHORECTIFIED BY HJW GEOSPATIAL, INC. 2011. EXCEPT FOR THE GENERAL JIM MOORE BLVD. AREA. DIGITAL GLOBE GEOEYE-1 SATELLITE; ORTHORECTIFIED BY APOLLO IMAGING 2013. 0.5-METER PIXELS.

UTILITY CONTACTS FOR PROJECT AREA

AGENCY	TYPE	CONTACT	TITLE	PHONE	EMAIL
AT&T	COMMUNICATIONS	JANICE COMASKEY	ADMIN MANAGER CONSTRUCTION & ENGINNERING	(408) 635-8781	jc4363@att.com
CALIFORNIA AMERICAN WATER	WATER	DOUGLAS FRASER	SENIOR PROJECT MANAGER	(831) 236-4494	douglas.fraser@amwater.com
COMCAST	COMMUNICATIONS	MARK ROSE	CABLE CONTRACTOR	(831) 633-2392	mark.rose@cablecomllc.net
CITY OF MARINA	SEWER, AND STORM DRAIN	NOURDIN KHAYATA	CITY ENGINEER	(831) 884-1212	nkhayata@ci.marina.ca.us
CITY OF MONTEREY	SEWER AND STORM DRAIN	JOHN KUEHL	BUILDING OFFICIAL	(831) 646-5643	kuehl@monterey.org
CITY OF PACIFIC GROVE	SEWER AND STORM DRAIN	VINCE GENTRY	SEWER FIELD SUPERVISOR	(831) 648-5722	vgentry@ci.pg.ca.us
CITY OF SEASIDE	SEWER, STORM DRAIN AND WATER	RICK RIEDL	SENIOR CIVIL ENGINEER	(831) 899-6884	rriedl@ci.seaside.ca.us
COUNTY OF MONTEREY	SEWER AND STORM DRAIN	CHAD ALINIO	CIVIL ENGINEER	(831) 755-4937	aliniocs@co.monterey.ca.us
MARINA COAST WATER DISTRICT	WATER	BRIAN TRUE	CAPITAL PROJECTS MANAGER	(831) 384-6131	btrue@mcwd.org
PG&E	GAS AND ELECTRIC	WEIDONG TAN	ENGINEERING & PLANNING DIV.	(831) 784-3510	wxtk@pge.com
MONTEREY PENINSULA WATER MANAGEMENT OFFICE	WATER	JOE OLIVER	WATER RESOURCES MANAGER	(831) 658-5600	joe@mpwmd.dst.ca.us
MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY	SEWER AND RECYCLED WATER	JENNIFER GONZALES	ENGINEERING MANAGER	(831) 883-6172	jennifer@mrwpca.com
TAMC	RAILROAD	HANK MYERS	SENIOR ENGINEER	(831) 775-4412	hank@tamcmonterey.org
POLARIS	SURVEYORS	LYNN KOVACH	PROFESSIONAL LAND SURVEYOR	(831) 659-9564	lynn@polarislandsurveying.net
BESTOR ENGINEERS	SURVEYORS	MIKE HINK	PROFESSIONAL LAND SURVEYOR	(831) 373-2941	hink@bestor.com

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

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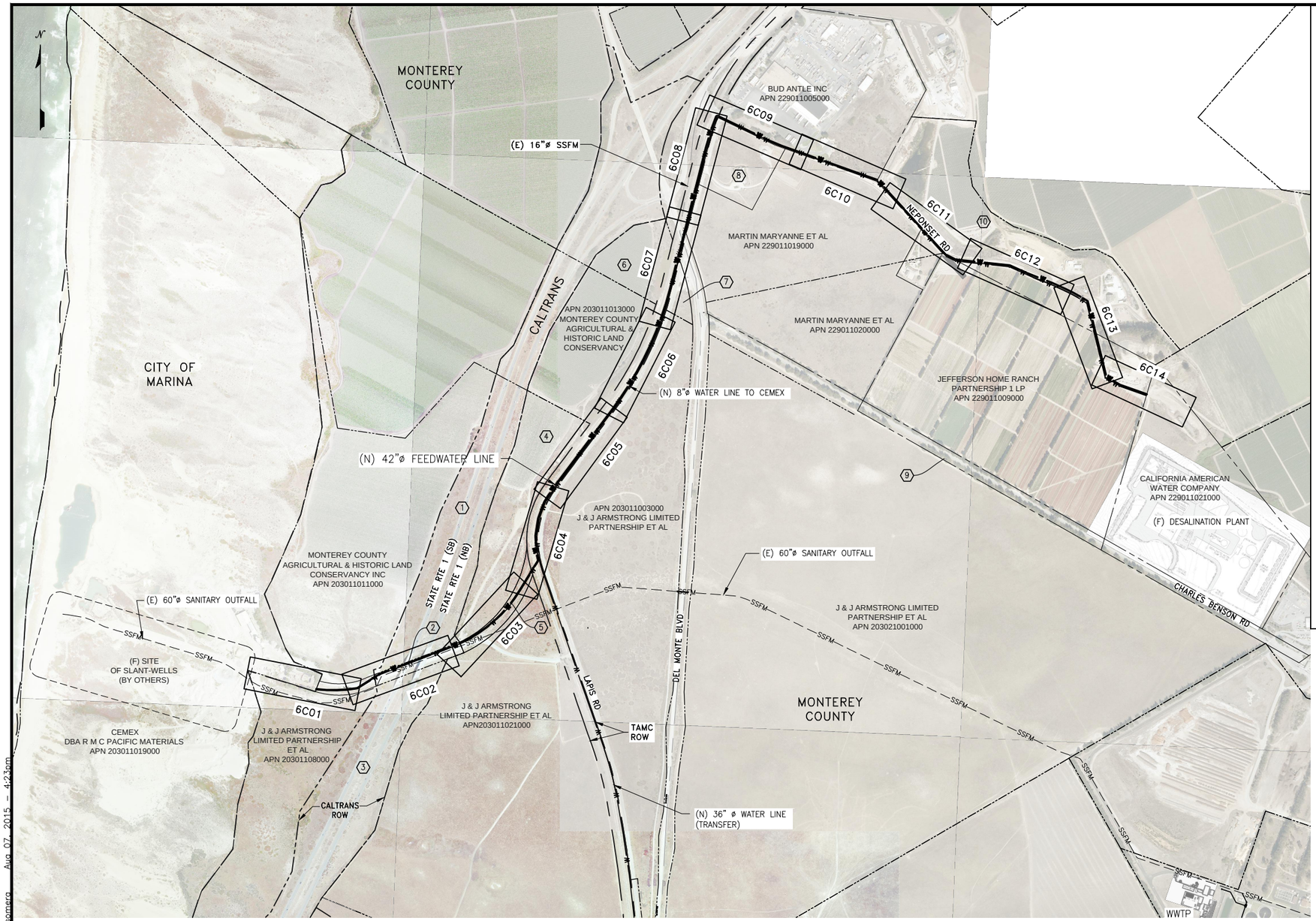


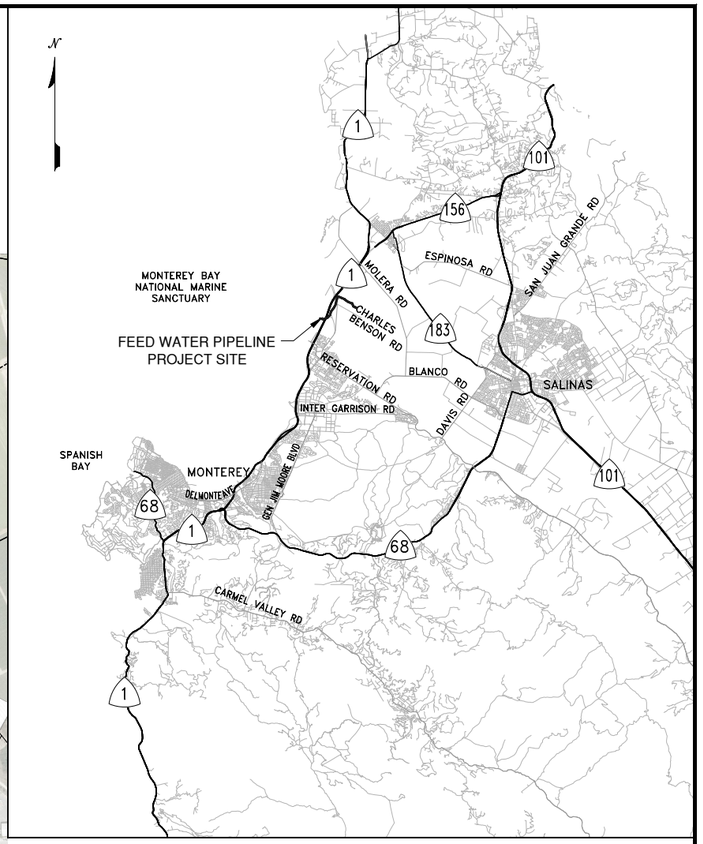
KEY MAP
1"=500'

#	OWNER	APN
1	STATE OF CALIFORNIA	20301102000
2	LONE STAR AGGREGATES	203011020000
3	STATE OF CALIFORNIA	203011009000
4	MONTEREY COUNTY AGRICULTURAL & HISTORIC LAND CONSERVANCY INC	203011010000

#	OWNER	APN
5	LONE STAR AGGREGATES	203011016000
6	MARTIN MARYANNE ET AL	229021017000
7	MARTIN MARYANNE ET AL	229011007000
8	MARTIN TIMOTHY JOHN & MARILYN	229011013000

#	OWNER	APN
9	MONTEREY PENINSULA GARBAGE & REFUSE DISPOSAL DIST	229011011000
10	JEFFERSON HOME RANCH PARTNERSHIP	229011016000

0 500 1,000 1,500
SCALE: 1" = 500'



SITE LOCATION MAP
NTS

NOTES:

1. CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNER BEFORE ENTERING PRIVATE PROPERTY.
2. CHARLES BENSON ROAD IS A PRIVATE ROAD.
3. THE ENTIRE TAMC ROW IS AVAILABLE FOR STAGING.

REVISIONS

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

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
KEY PLAN

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM
CALIFORNIA AMERICAN WATER

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH
DATE AUGUST 2015
PROJECT 60424498
USE DIMENSIONS ONLY
SCALE AS SHOWN

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6006C00

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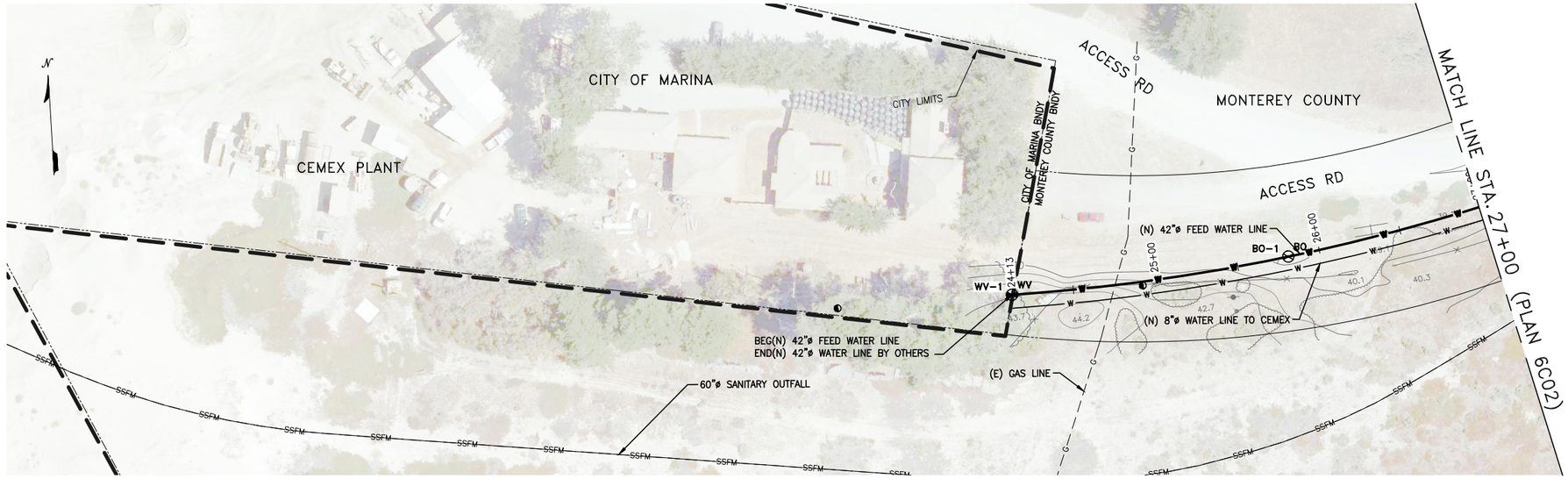
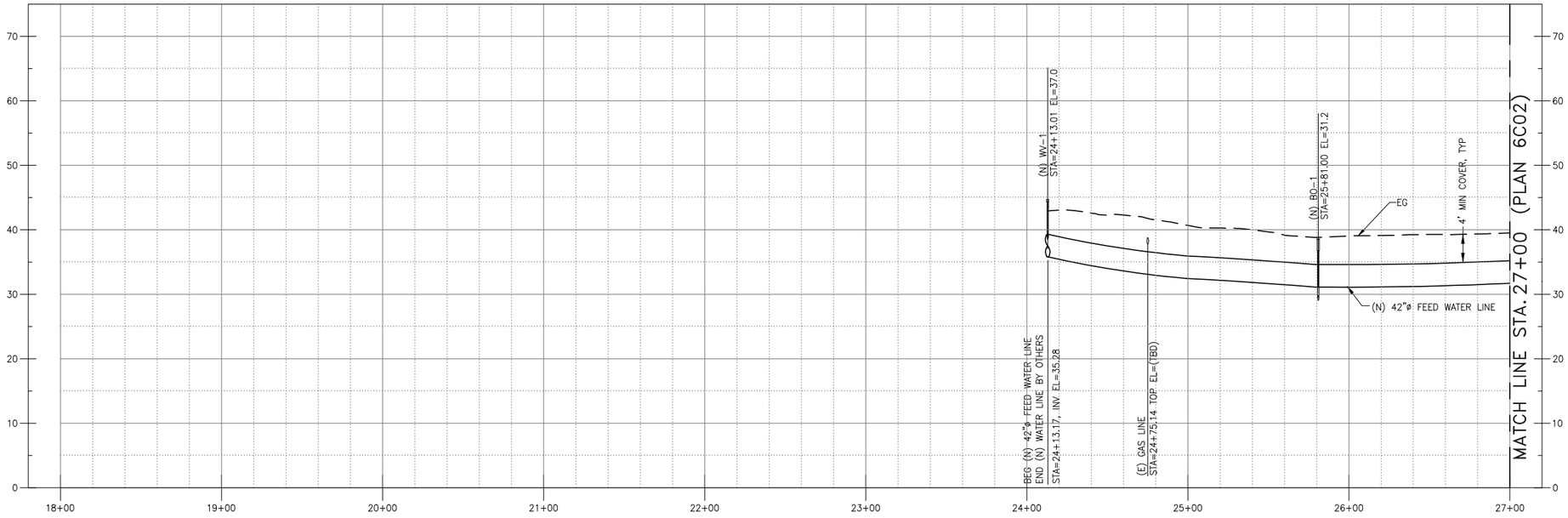


PLAN
1"=40'



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

NOTES:

1. RESTORE ALL DISTURBED VEGETATED AREAS BY RESEEDING WITH NATIVE GRASSES PER SPEC 02930.
2. INSTALL BLOWOFFS, ARV'S AND VALVES ON (N) 8" W AT SAME LOCATIONS AS ON (N) 42" FEED WATER. SEPARATE PLANS AND PROFILES ARE NOT PROVIDED FOR THE (N) 8" W. IT IS ASSUMED TO PARALLEL THE 42" LINE, BE INSTALLED IN A SEPERATE TRENCH, MIN 10 FT SEPARATION EDGE-TO-EDGE. 8IN WATER LINE MAY BE INSTALLED WITH MINIMUM 3FT COVER.
3. INSTALL BLIND FLANGE ON WEST END OF WATER VALVE WV-1 ON BOTH PIPELINES.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 23+80.32 TO STA 27+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM
CALIFORNIA AMERICAN WATER

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH
DATE AUGUST 2015
PROJECT 60424498
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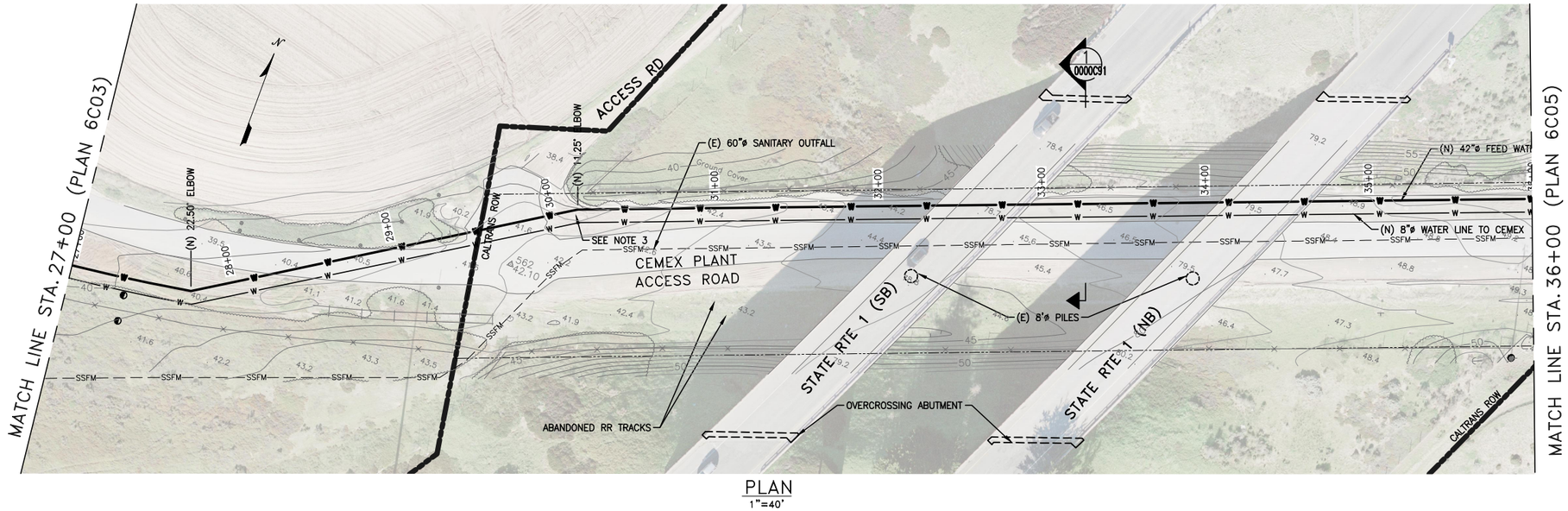
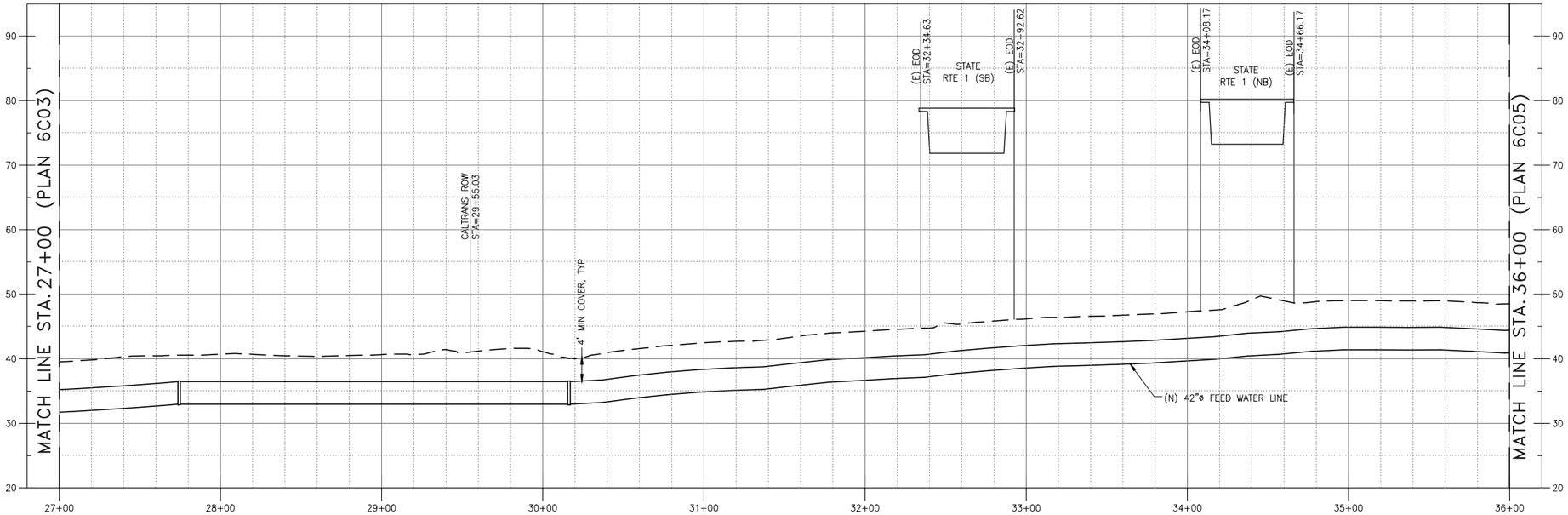


PLAN
1"=40'



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

NOTES:

1. INSTALL (N) WATER LINES MIN 10 FEET LATERALLY AWAY FROM (E) 60 INCH SS OUTFALL (FROM PIPE EDGES).
2. RESTORE DISTURBED UNPAVED AREAS WITH NATIVE GRASSES.
3. OUTSIDE TAMC ROW, REMOVE AND DISPOSE OF ABANDONED RR TRACKS AS NEEDED FOR PIPE INSTALLATION.
4. ENTER CALTRANS ROW IN ACCORDANCE WITH PERMIT CONDITIONS.
5. SEE DETAIL 1, SHEET 0000C91 FOR CLEARANCES.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. TIERNEY
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CIVIL
STATE OF CALIFORNIA

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 27+00 TO STA 36+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

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PROJECT ENG'R J. HYMAN
APPROVED C. SMITH
DATE AUGUST 2015
PROJECT 60424498
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6006C02

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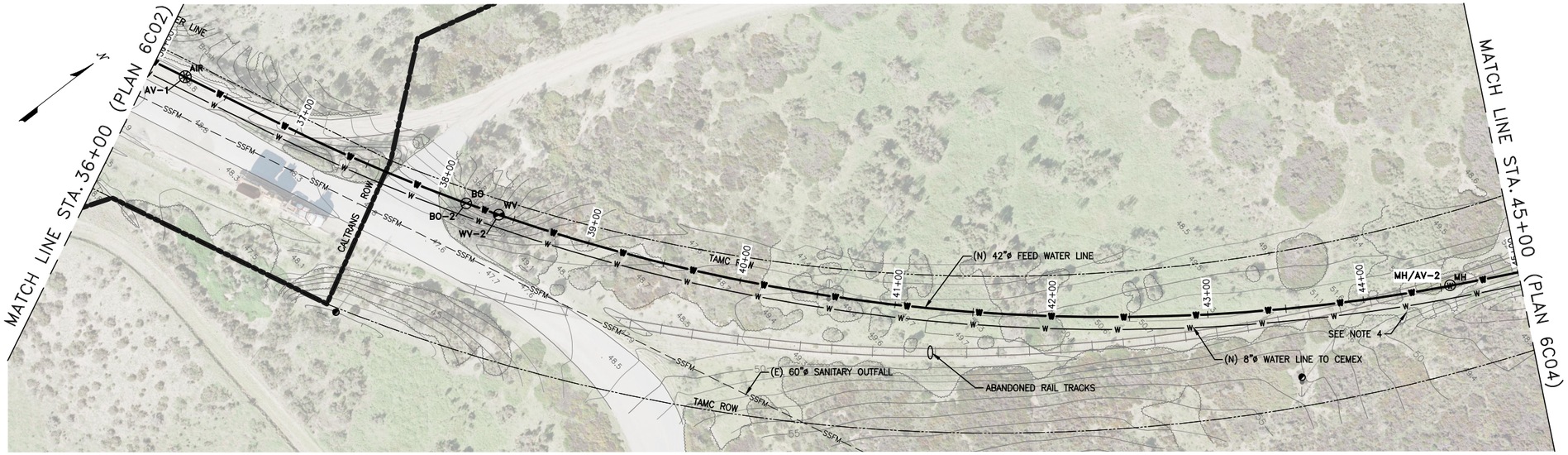

PLAN
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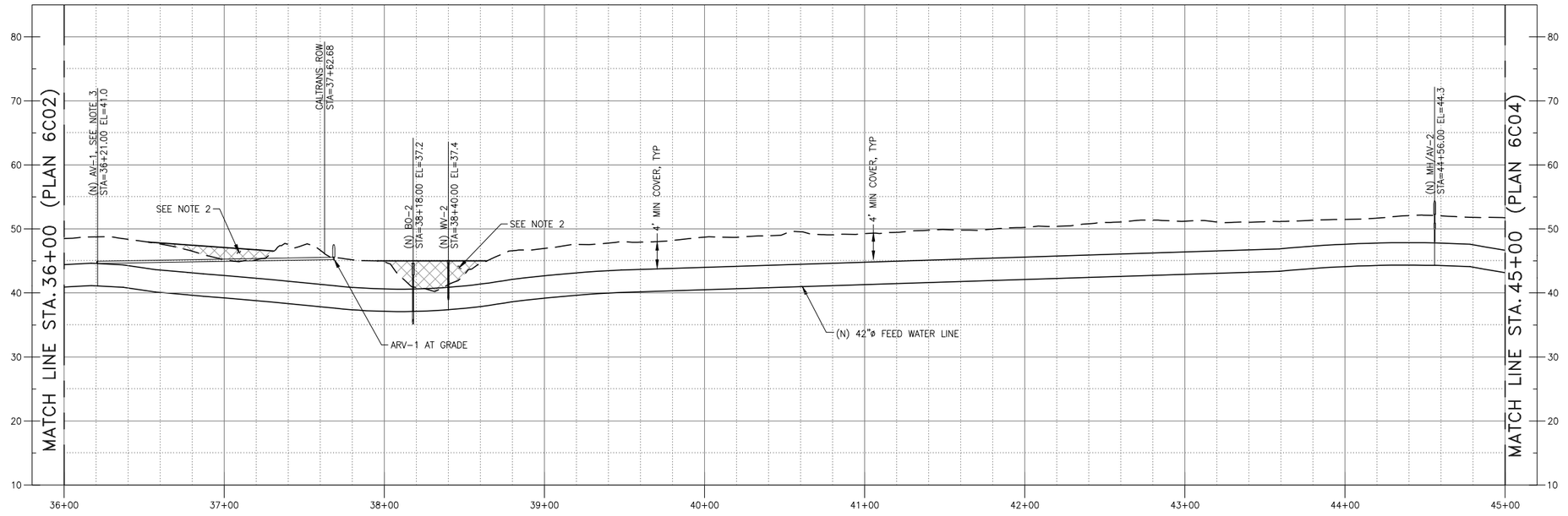

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1. INSTALL (N) WATER LINES MIN 10 FT LATERALLY AWAY FROM (E) 60" SS OUTFALL (FROM PIPE EDGES). INSTALL (N) 8 INCH WATER LINE MINIMUM 4 FT EDGE–TO–EDGE FROM (N) 42" FEED WATER LINE.
2. ADD NATIVE SOIL, COMPACT TO 90%, TO BRING COVER UP TO 4 FT.
3. TAP PIPE FOR ARV–1 WHERE SHOWN. INSTALL ARV AT GRADE OUTSIDE CALTRANS ROW AND WITHIN CEMEX PROPERTY.
4. OUTSIDE TAMC ROW, REMOVE AND DISPOSE OF ABANDONED RR TRACKS AS NEEDED FOR PIPE INSTALLATION.

REVISIONS

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

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 36+00 TO STA 45+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

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PROJECT ENG'R J. HYMAN
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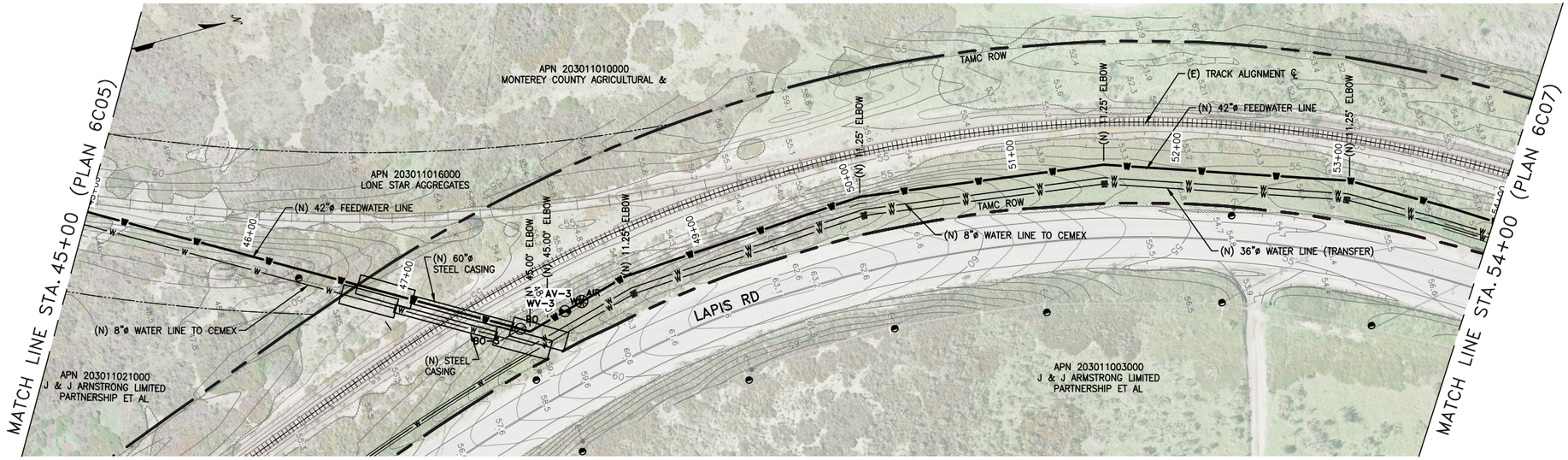
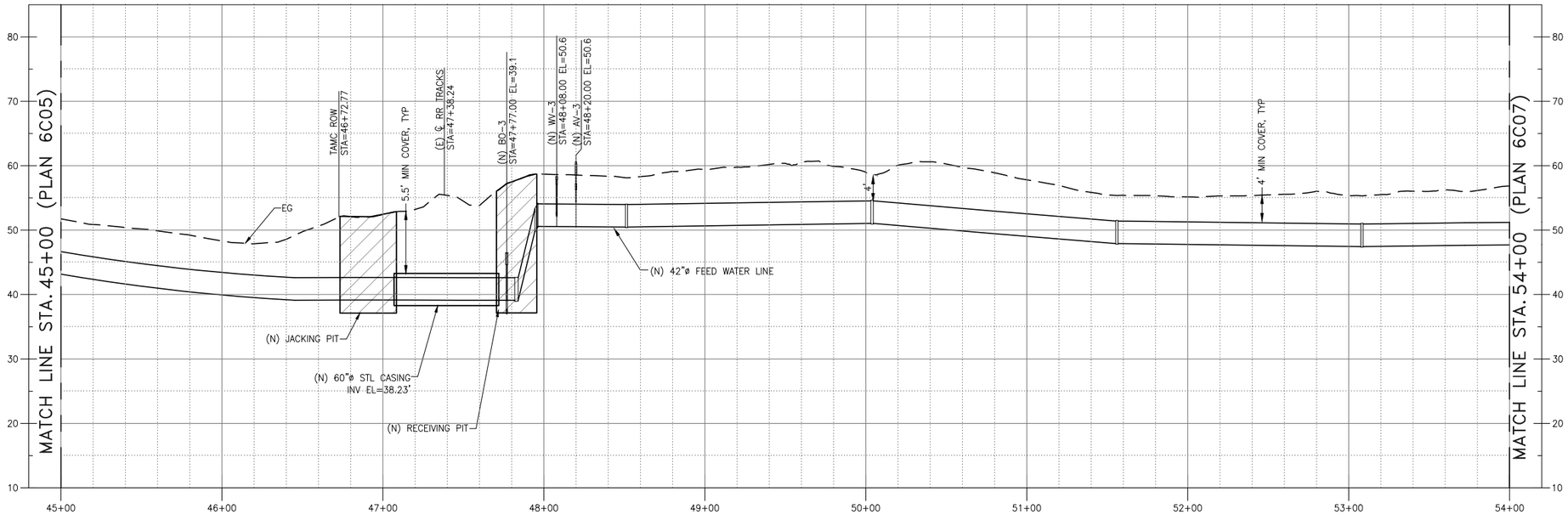


PLAN
1"=40'



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

NOTES:

1. INSTALL (N) 8 INCH WATER AND (N) 36 INCH WATER MINIMUM 4 FEET EDGE-TO-EDGE FROM FROM (N) 42 INCH FEED WATER LINE. SEE DETAIL SHEET 0000C83 FOR TYPICAL SECTION THROUGH TAMC WITH 3 PIPES.
2. SEPARATE BORES ARE REQUIRED FOR 8 INCH WATER AND 42 INCH FEED WATER LINES.
3. INSTALL 3 PIPELINES IN TAMC ROW PER SHEET 0000C84.
4. SEE JACK AND BORE DETAILS SHEETS 0000C60 AND 0000C61.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

REVISIONS

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

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 45+00 TO STA 54+00

CALIFORNIA
AMERICAN WATER

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OAKLAND, CALIFORNIA 94612

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APPROVED C. SMITH
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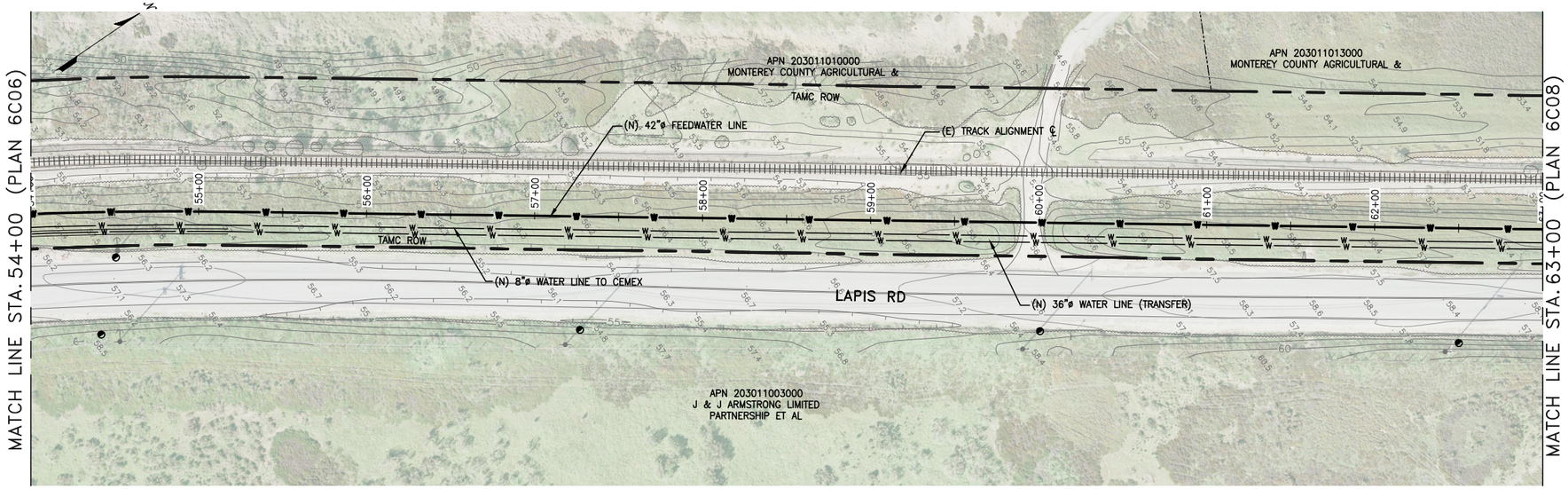

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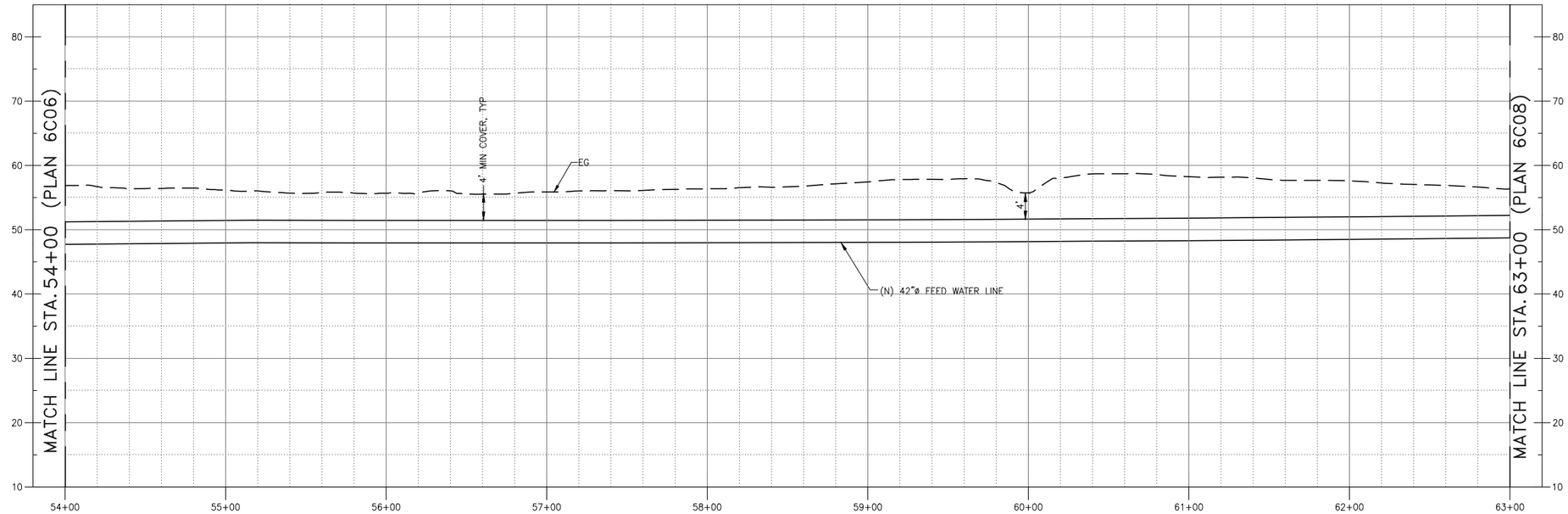

PROFILE
HORIZ 1"=40', VERT 1"=10'

NOTES:

1.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HYMAN
No. C-30926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 54+00 TO STA 63+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

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APPROVED C. SMITH

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6006C05

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0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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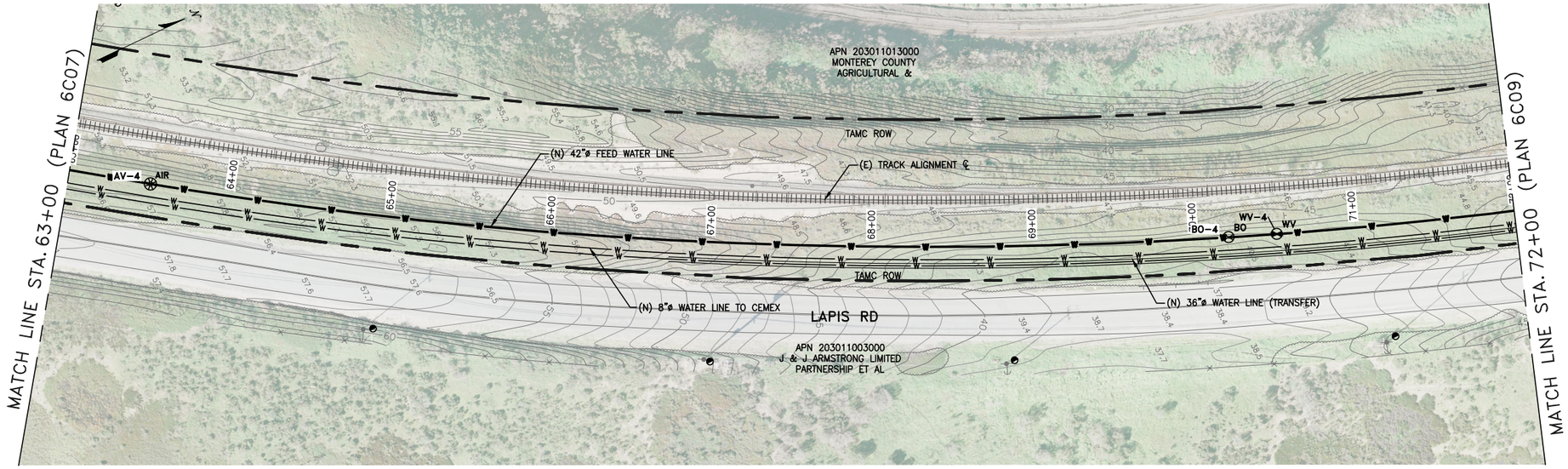

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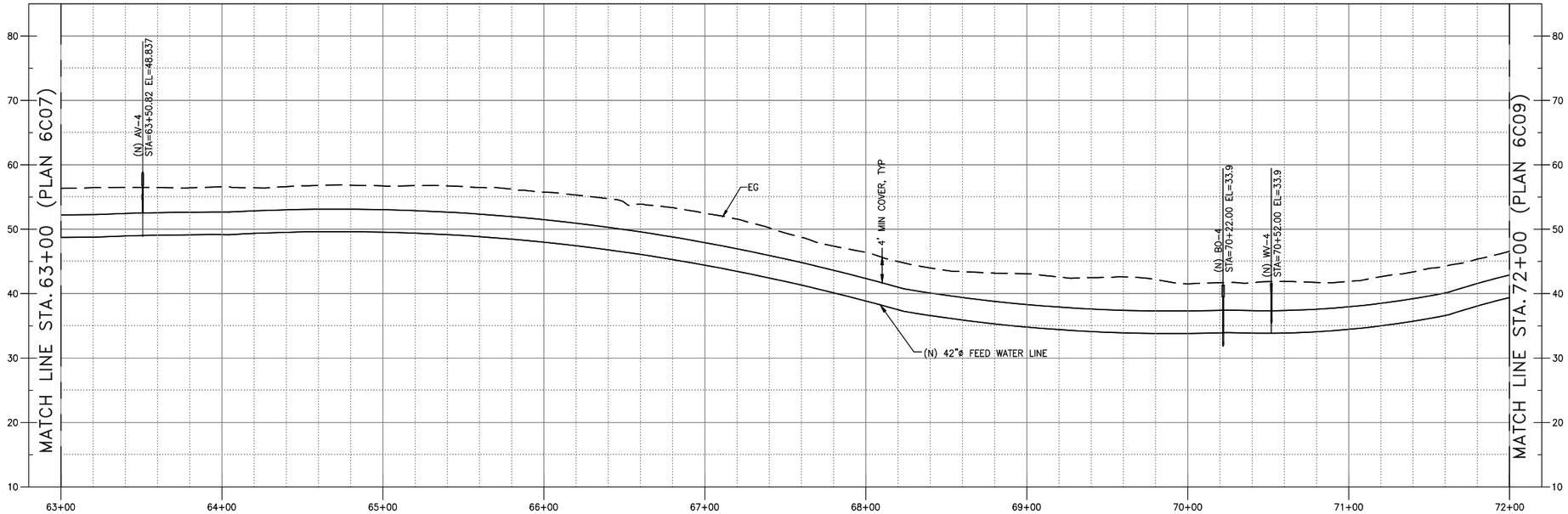

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1.

REVISIONS

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

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 63+00 TO STA 72+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

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CALIFORNIA AMERICAN WATER

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APPROVED C. SMITH

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PROJECT 60424498

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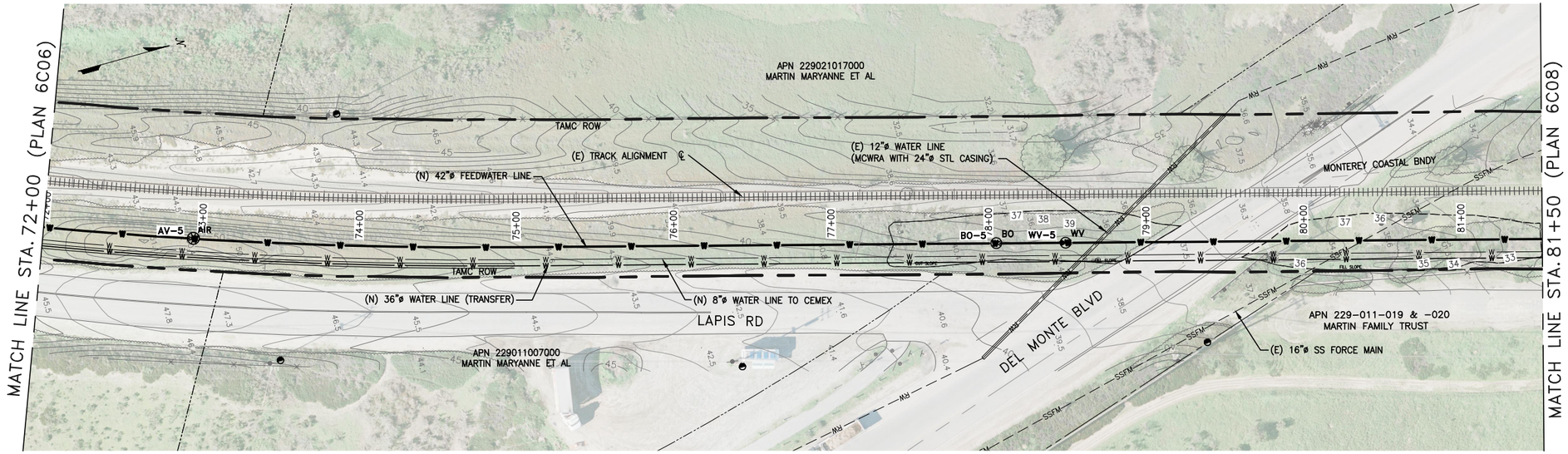

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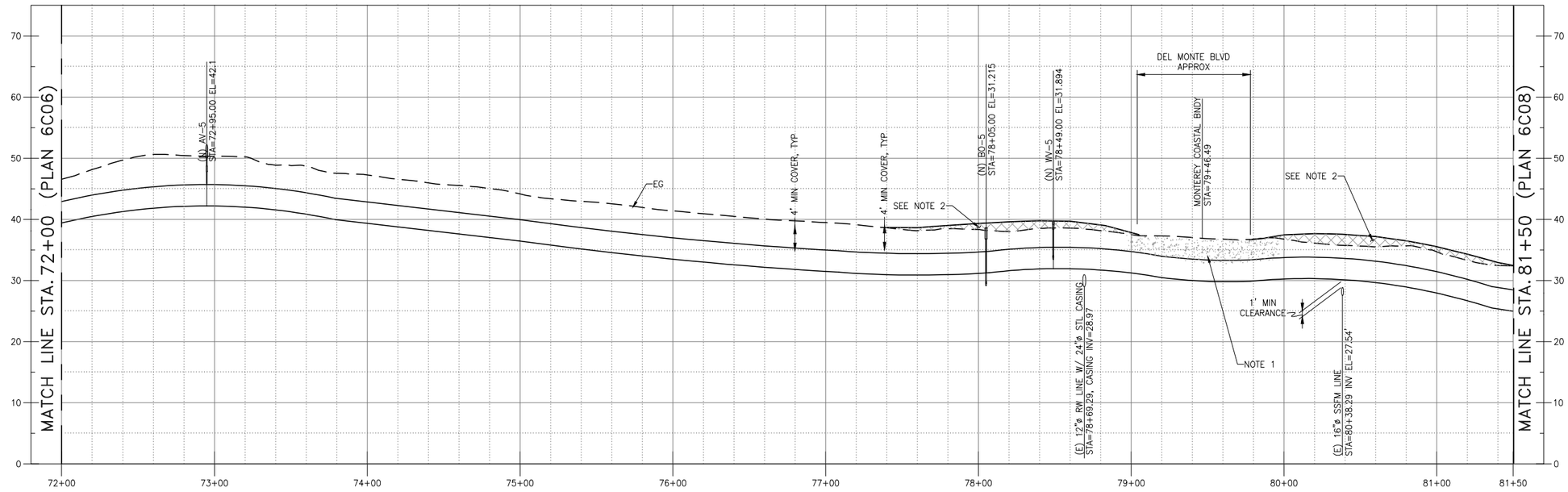

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1. COVER IS EXPECTED TO BE LESS THAN 4 FT HERE. INSTALL CONCRETE CAP ACROSS DEL MONTE BLVD OVER PIPELINES PER DETAIL 0000C55. APPROXIMATE AREA = 100 FT X 25 FT.
2. ADD NATIVE FILL AS NECESSARY TO BRING COVER OVER PIPE TO 4 FT MIN. RESEED FILLED AREAS PER SPEC 02930.

REVISIONS

REGISTERED PROFESSIONAL ENGINEER
CHRISTINE A. HYMAN
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CIVIL
STATE OF CALIFORNIA

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 72+00 TO STA 81+50

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
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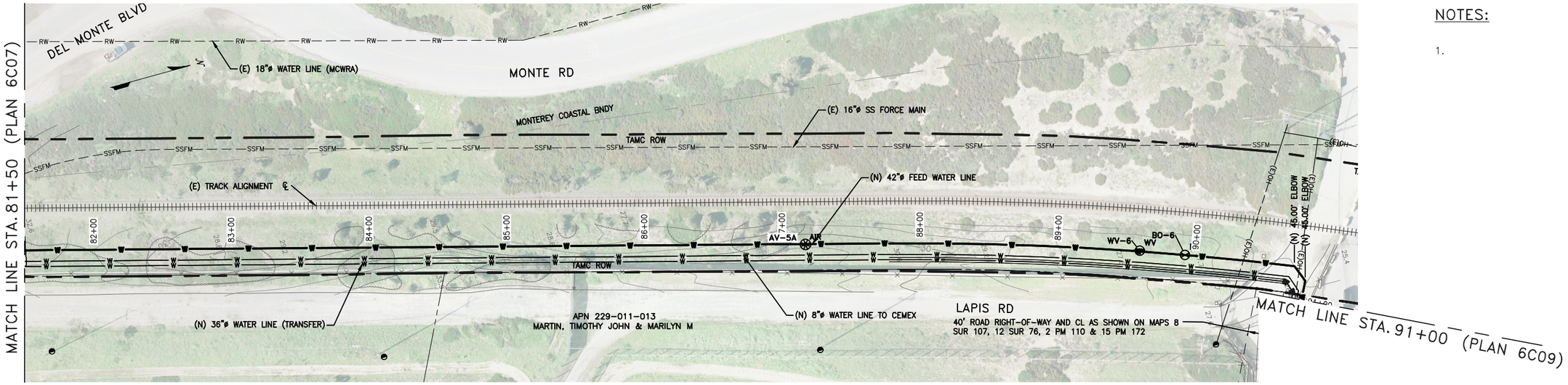
NOTES:

1.



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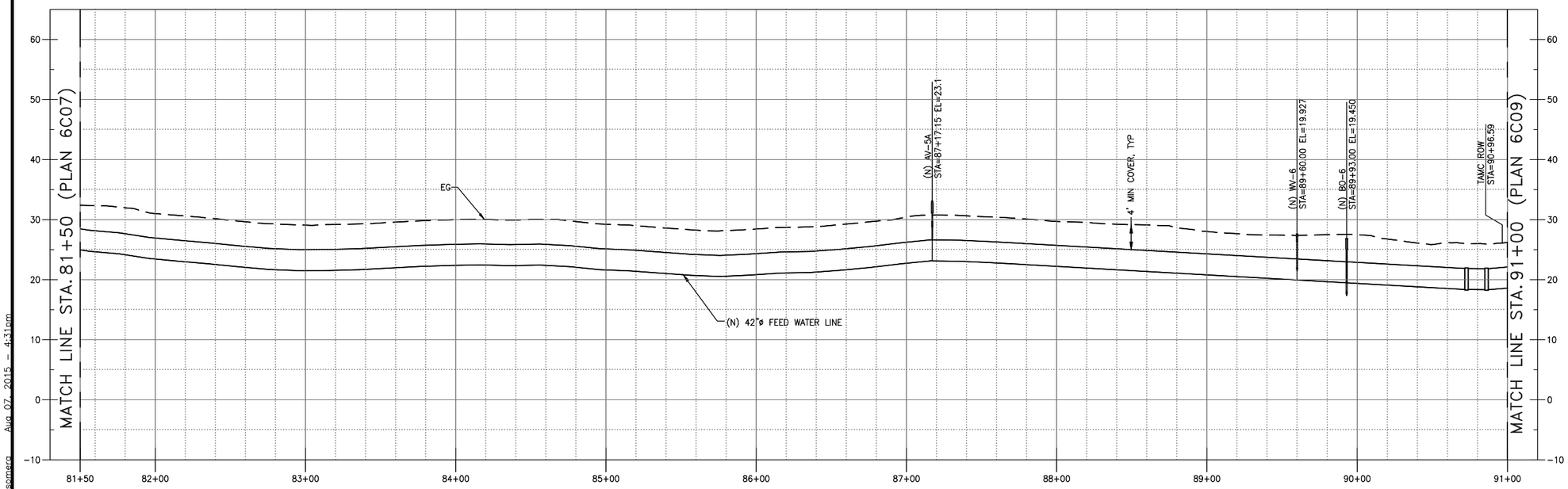

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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REVISIONS

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

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 81+50 TO STA 91+00

CALIFORNIA
AMERICAN WATER

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1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM
CALIFORNIA AMERICAN WATER

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PROJECT ENG'R J. HYMAN
APPROVED C. SMITH

DATE AUGUST 2015
PROJECT 60424498

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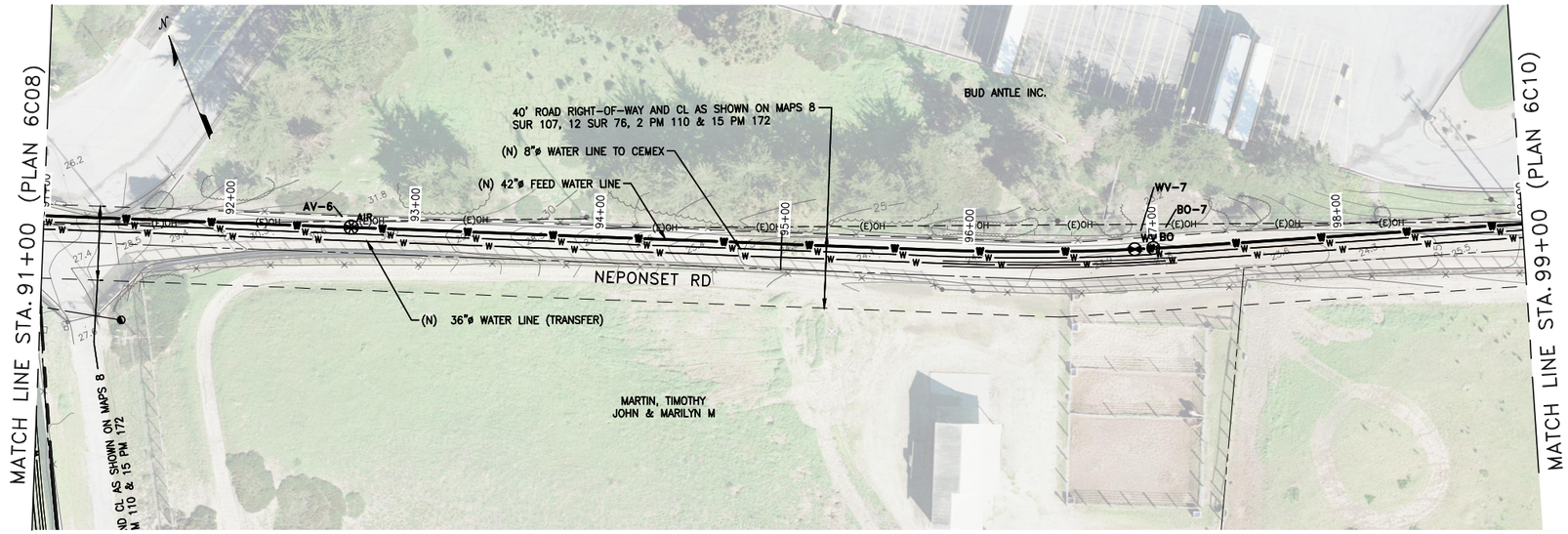

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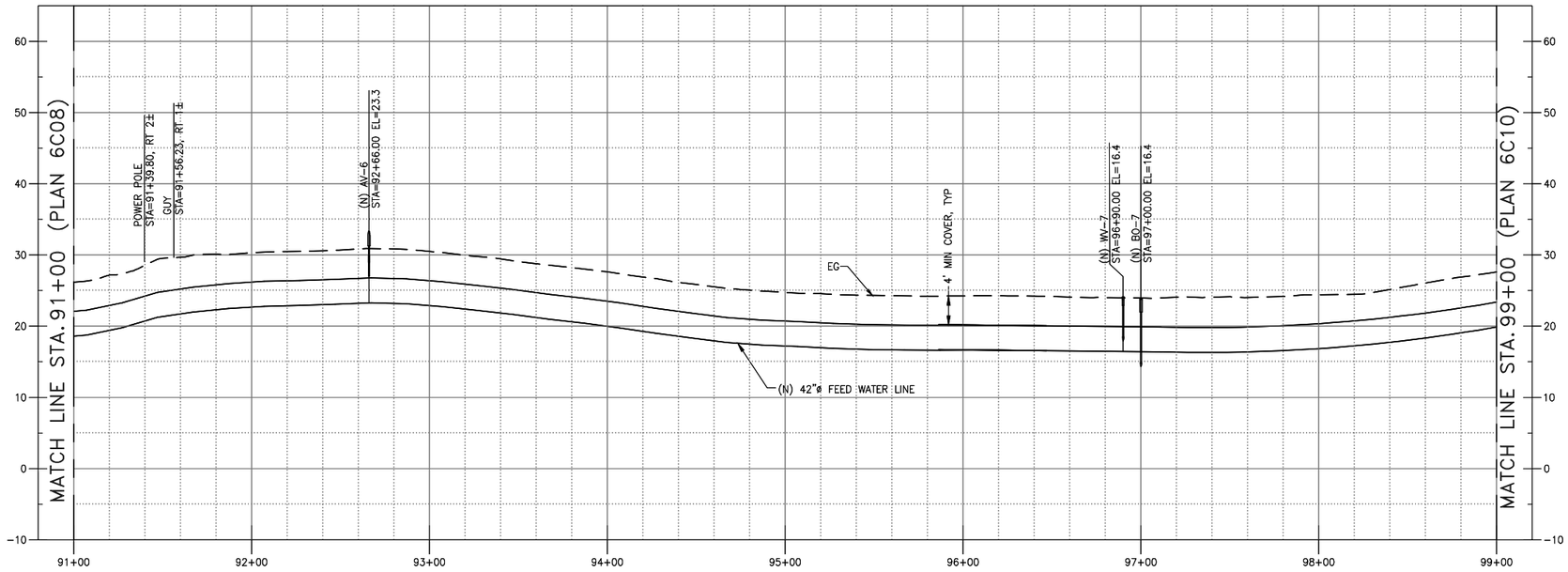

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1. INSTALL PIPELINES IN 20 FT WIDE EASEMENT IN NEPONSET PER DETAIL A. SHEET 0000C53.
2. CONTRACTOR SHALL NOT ENTER PROPERTY OWNED BY TIMOTHY, JOHN, MARILYN OR MARY ANNE MARTIN, ET AL.
3. CONTRACTOR SHALL SURVEY CAW EASEMENT PRIOR TO INSTALLATION OF PIPELINES IN NEPONSET ROAD. SEE NEPONSET ROAD SURVEY DOCUMENTS BY BESTOR ENGINEERS IN SPECIFICATIONS APPENDIX K.

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HYMAN
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STATE OF CALIFORNIA

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 91+00 TO STA 99+00

CALIFORNIA
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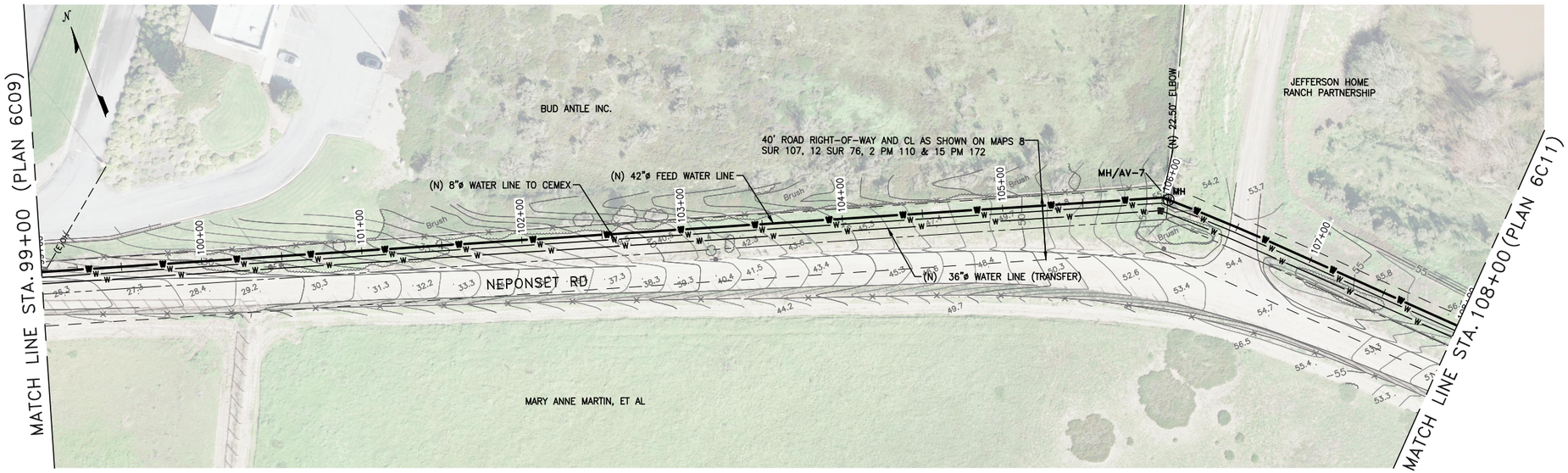

PLAN
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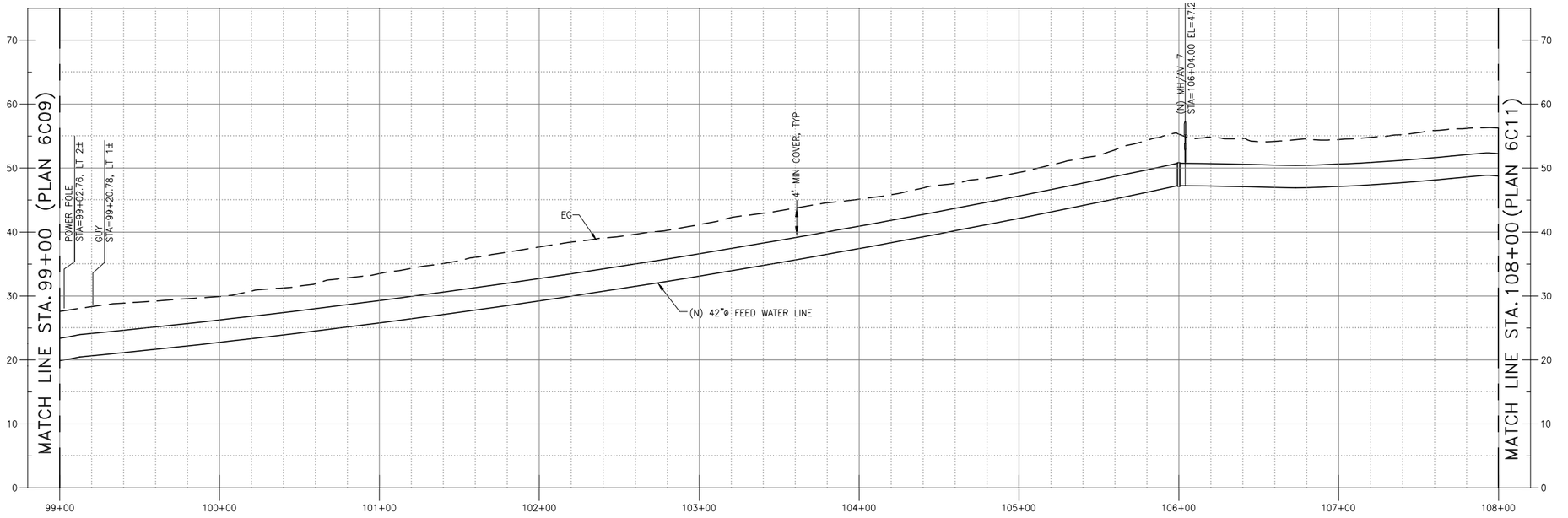

PROFILE
HORIZ 1"=40', VERT 1"=10'

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1.

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 99+00 TO STA 108+00

CALIFORNIA
AMERICAN WATER

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6006C10

REGISTERED PROFESSIONAL ENGINEER
LAWREN A. [illegible]
No. C-50926
Exp. 9/30/15
CIVIL
STATE OF CALIFORNIA

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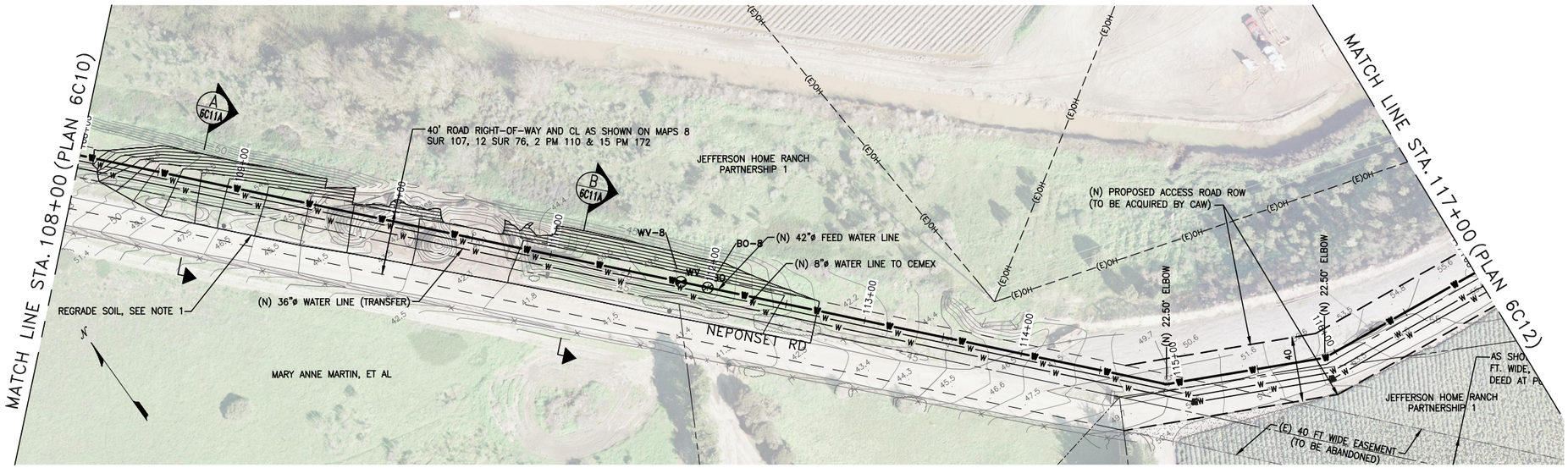

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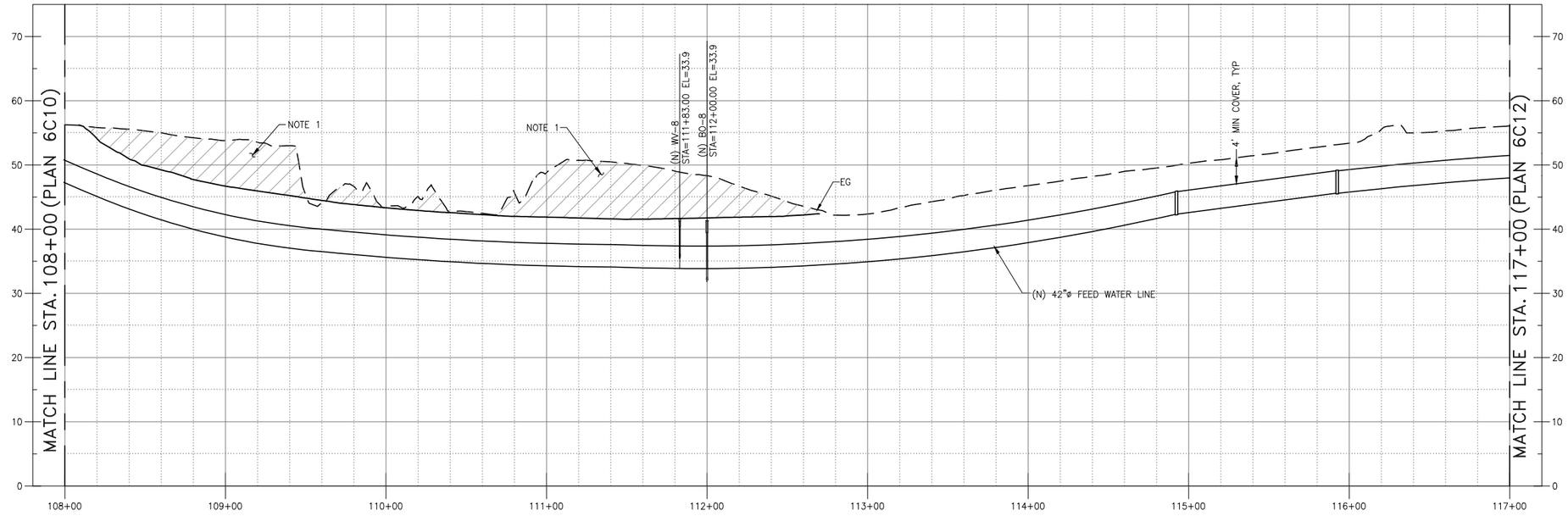

PROFILE
HORIZ 1"=40', VERT 1"=10'

NOTES:

1. REMOVE SOIL TO WIDEN ACCESS ROAD BETWEEN STA 108+10 AND 112+70, SEE ALSO DETAILS ON SHEET 6006C11A. REMOVE APPROXIMATELY 1,625 CY OF SOIL.
2. STARTING AT ABOUT STA. 115+00, PIPELINE EASEMENT WIDENS TO 40'. SEE, SHEET 0000C53 DETAIL B FOR PIPE LAYOUTS.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

REGISTERED PROFESSIONAL ENGINEER A. HYMAN No. C-50609 Exp. 9/30/15 CIVIL STATE OF CALIFORNIA

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 108+00 TO STA 117+00

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6006C11

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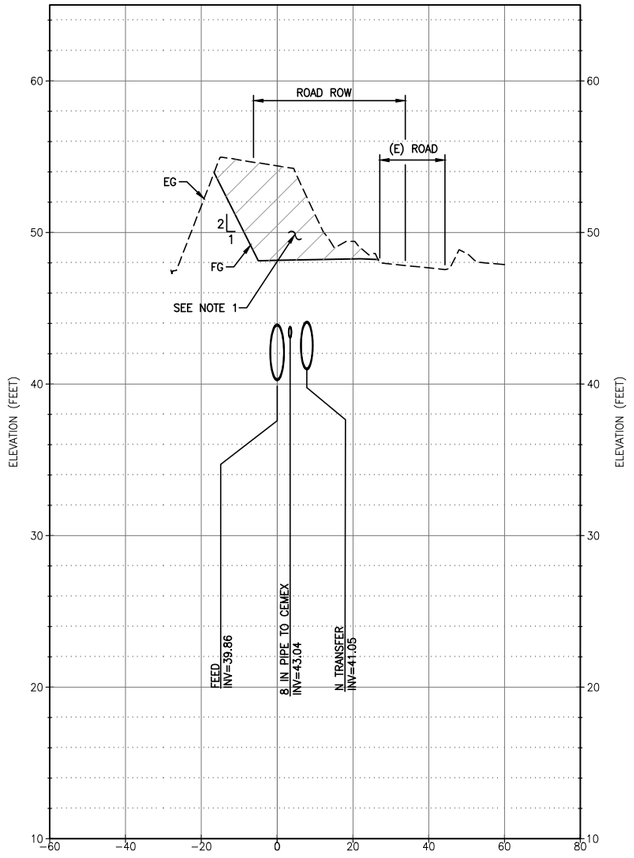
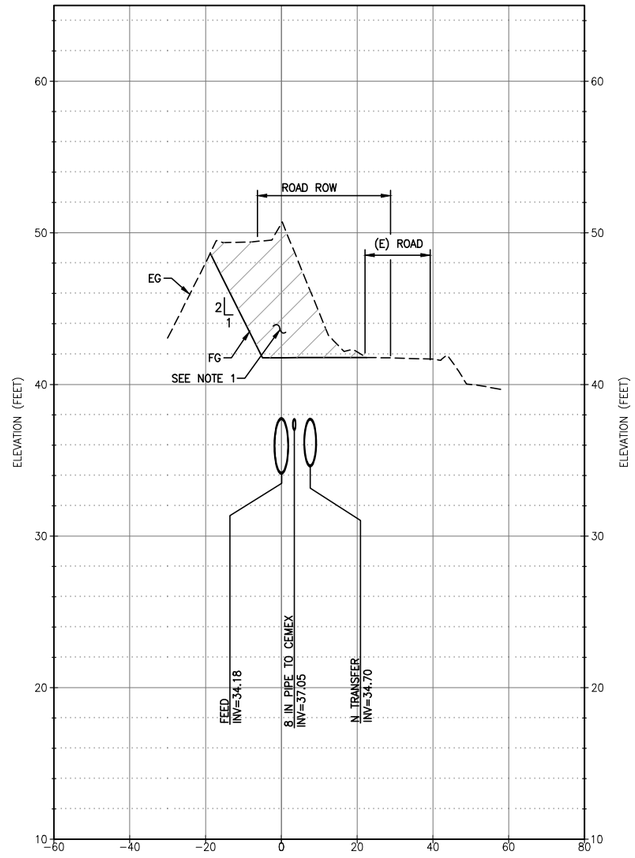
NOTES:

1. PRIOR TO PIPELINE INSTALLATION, REMOVE SOIL TO EDGE OF EASEMENT WITH 2:1 SLOPE DOWN TO ROAD LEVEL.
2. ON SLOPE, COVER WITH 6 FEET TOPSOIL AND RESEED WITH NATIVE GRASSES PER SPECIFICATION 02930.
3. ON WIDENED ROAD, LAY DOWN 3 INCHES OF GRAVEL.



SECTION A
SCALE: HORIZ 1"=20', VERT 1"=5' (6C11)



SECTION B
SCALE: HORIZ 1"=20', VERT 1"=5' (6C11)

0 5 10 15
VERT 1" = 5'

0 20 40 60
HORIZ 1" = 20'

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REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
SECTIONS A AND B

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM
CALIFORNIA AMERICAN WATER

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

DATE JULY 2015
PROJECT 60424498

USE DIMENSIONS ONLY
SCALE AS SHOWN

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6006C11-A

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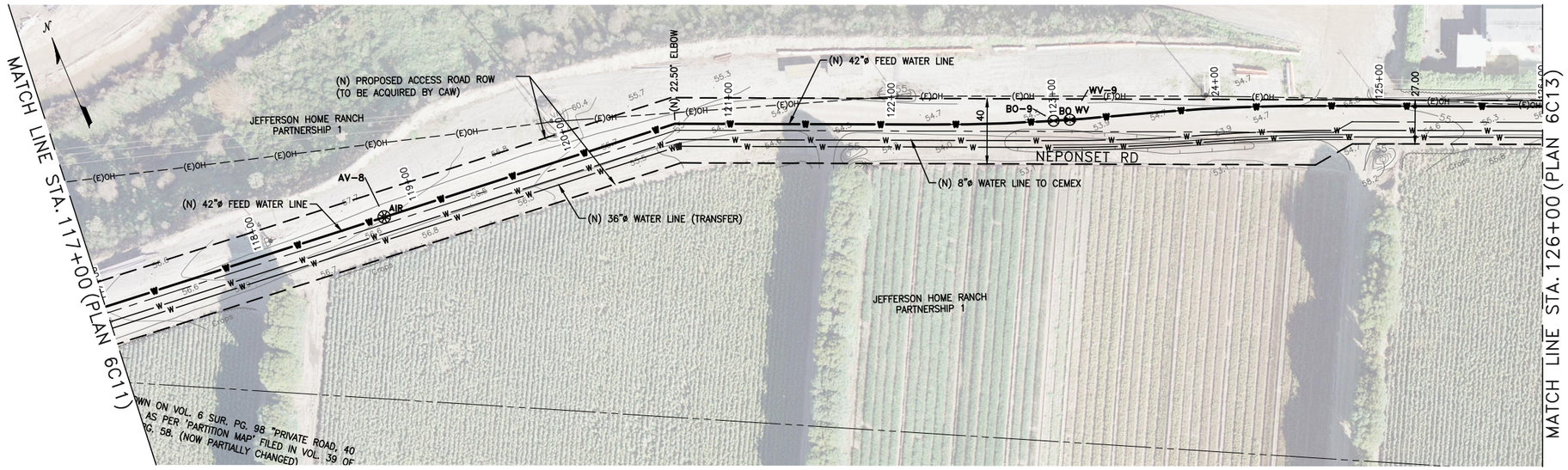
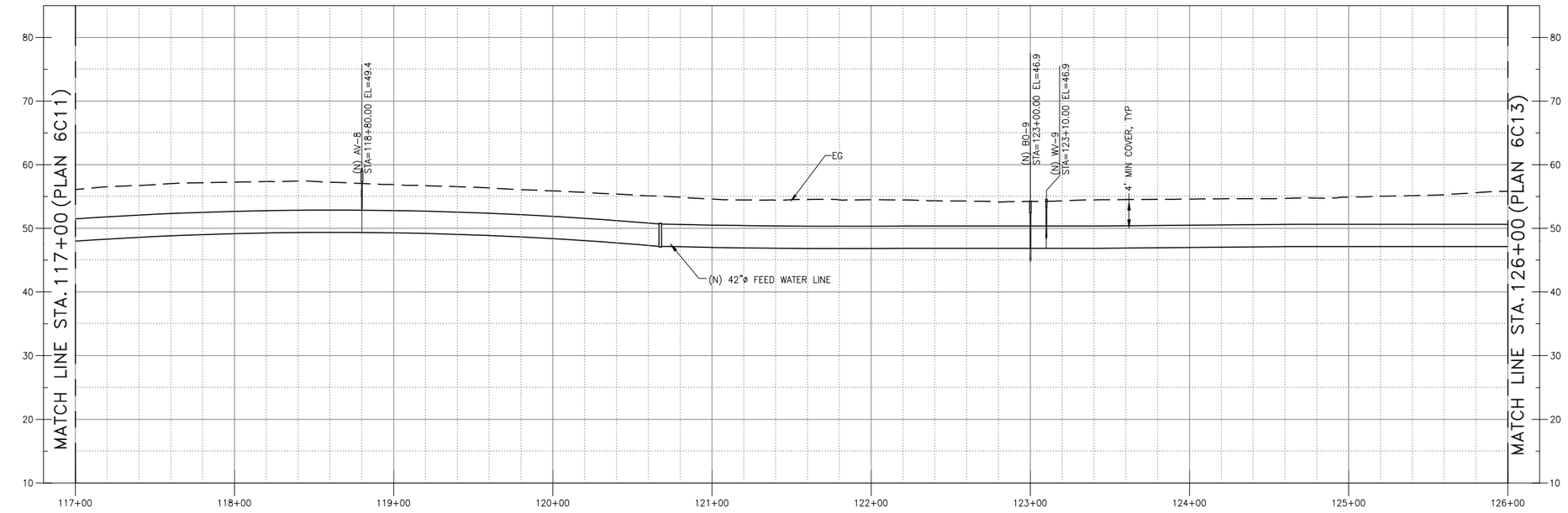


PLAN
1"=40'



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

NOTES:

1. EASEMENT NARROWS TO ABOUT 27 FT BETWEEN ABOUT STATION 125+00 AND 128+50.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

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REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 117+00 TO STA 126+00

CALIFORNIA
AMERICAN WATER

AECOM
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

DRAWN BY C. SOMERA
PROJECT ENG'R J. HYMAN
APPROVED C. SMITH
DATE AUGUST 2015
PROJECT 60424498
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6006C12

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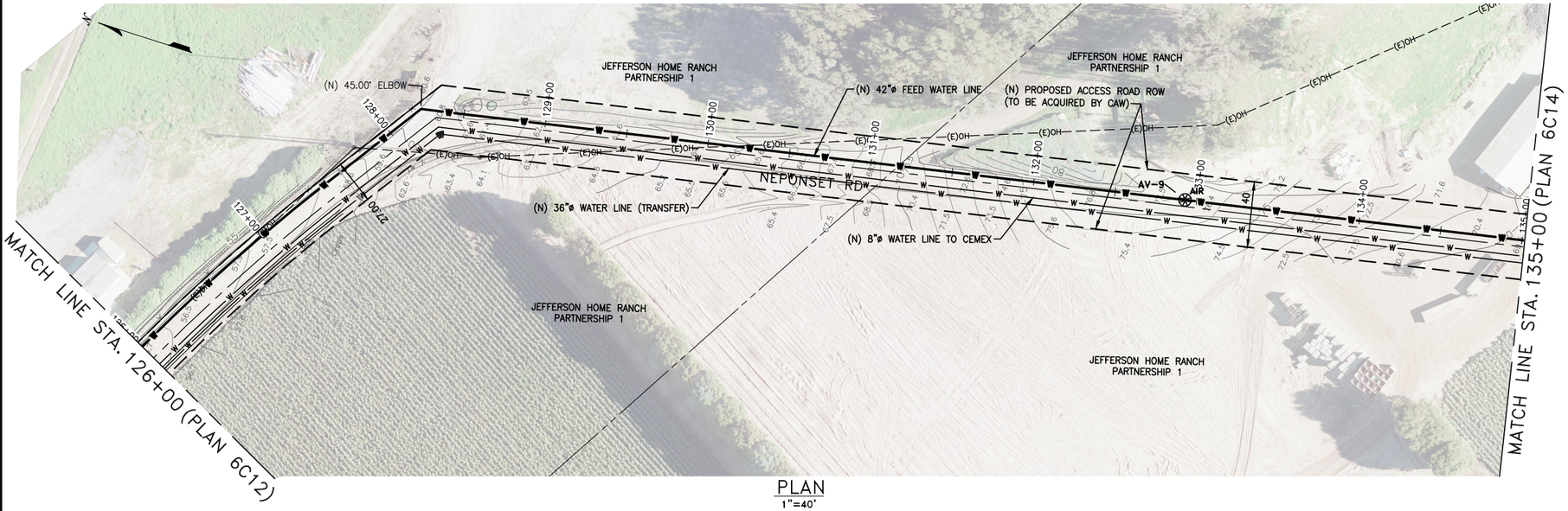
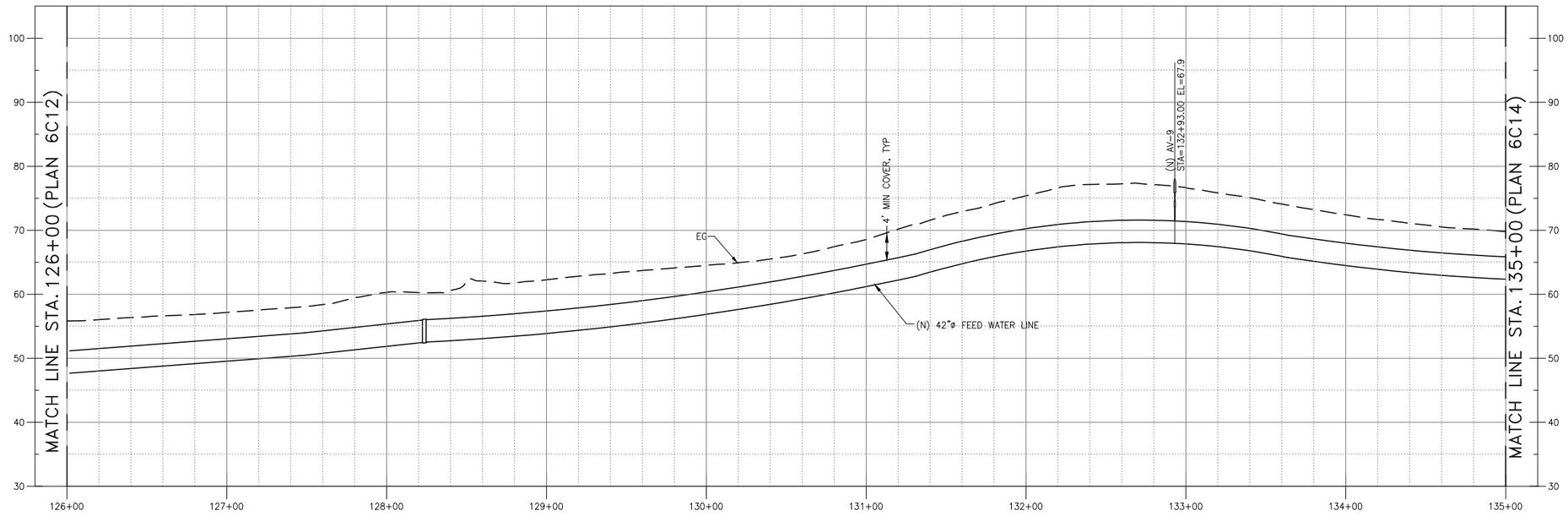


PLAN
1"=40'



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

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

NOTES:

1.

REVISIONS

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STATE OF CALIFORNIA

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 126+00 TO STA 135+00

CALIFORNIA
AMERICAN WATER

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AECOM
CALIFORNIA AMERICAN WATER

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APPROVED C. SMITH
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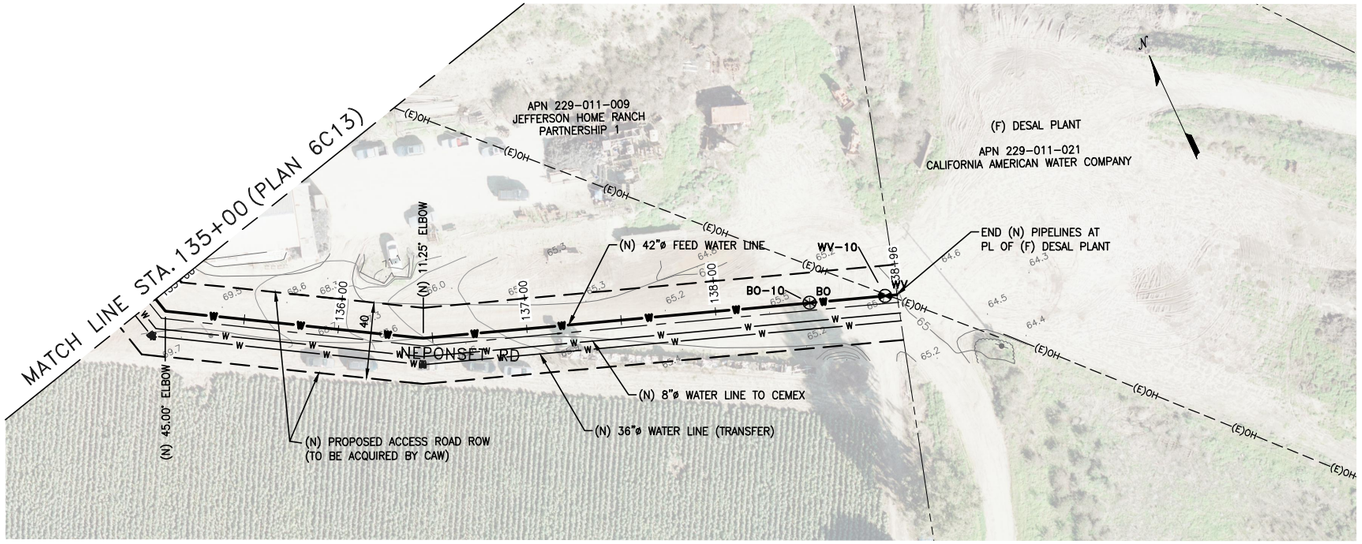
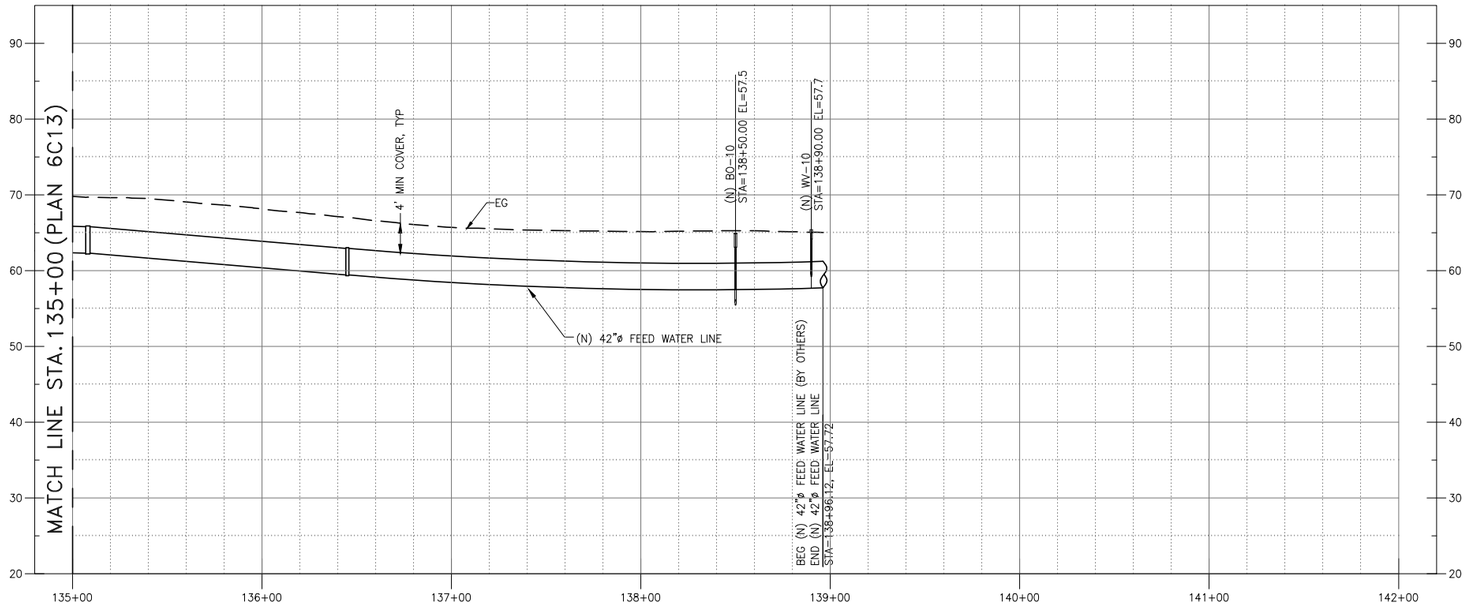


PLAN
1"=40'



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

NOTES:

1. INSTALL BLANK FLANGE ON EAST END OF VALVE AT END OF PIPE.

0 10 20 30
VERT 1" = 10'

0 40 80 120
HORIZ 1" = 40'

REVISIONS

TRANSMISSION MAINS FOR MPWSP
CIVIL
FEED WATER PIPELINE
PLAN AND PROFILE STA 135+00 TO END

CALIFORNIA
AMERICAN WATER

AECOM
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APPROVED C. SMITH
DATE AUGUST 2015
PROJECT 60424498
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6006C14

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STATE OF CALIFORNIA

10006006C14

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NOTES:

1. INSTALL WATER VALVES PER DETAIL SHEET 0000M10.
2. INSTALL BLOW-OFFS PER DETAIL SHEET 0000M11.
3. INSTALL COMBINATION ARV PER DETAIL SHEET 0000M13.
4. INSTALL COMBINATION ARV/MH PER DETAIL SHEET 0000M16.
5. ON 8" WATER INSTALL ALL ARV'S PER DETAIL SHEET 0000M13. THERE ARE NO COMBINATION ARV/MH INSTALLATIONS.

42" FEED WATER/8" WATER ALIGNMENTS

WATER VALVE	
ID NO.	STA NO.
WV-1	24+13
WV-2	38+40
WV-3	48+08
WV-4	70+52
WV-5	78+49
WV-6	89+60
WV-7	96+90
WV-8	111+83
WV-9	123+10
WV-10	138+90

BLOW-OFF VALVE	
ID NO.	STA NO.
BO-1	25+80
BO-2	38+18
BO-3	47+77
BO-4	70+22
BO-5	78+05
BO-6	89+93
BO-7	97+00
BO-8	112+00
BO-9	123+00
BO-10	138+50

COMBINATION AIR RELEASE VALVE	
ID NO.	STA NO.
AV-1	36+21
AV-2 (MH)	44+56
AV-3	48+20
AV-4	63+50
AV-5	72+95
AV-5A	
AV-6 (MH)	92+66
AV-7	106+04
AV-8	118+80
AV-9	132+93

(MM) = INSTALL COMBINATION MH/ARV

ELBOW TABLE	
TYPE	NO.
11.25°	6
22.50°	5
45.00°	6

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

REVISIONS

TRANSMISSION MAINS FOR MPWSP
MECHANICAL
FEED WATER PIPELINE
VALVE AND ELBOW TABLES

CALIFORNIA
AMERICAN WATER

URS CORPORATION
1333 BROADWAY, SUITE 800
OAKLAND, CALIFORNIA 94612

AECOM

CALIFORNIA AMERICAN WATER

DRAWN BY C. SOMERA
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DATE AUGUST 2015
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6006M01

10006006M01

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