

# CITY OF SANTA ANA

# PUBLIC WORKS AGENCY

NE ANNEXATION

WATER IMPROVEMENTS: PROJECT NO. 21-6453

SEWER IMPROVEMENTS: PROJECT NO. 21-6619

E 17TH STREET: FROM PONDEROSA ST TO CA-55 FWY DEODAR STREET: FROM E 17TH ST TO E AVALON AVE

MEDFORD AVENUE: FROM DEODAR ST TO PASADENA ST

PASADENA STREET: FROM MEDFORD AVE TO CUL-DE-SAC

CALTRANS DISTRICT 12

SOUTHERN CALIFORNIA GAS COMPANY

CHARTER COMMUNICATIONS

SOUTHERN CALIFORNIA EDISON

AT&T SUBSTRUCTURE

(657) 328-6000

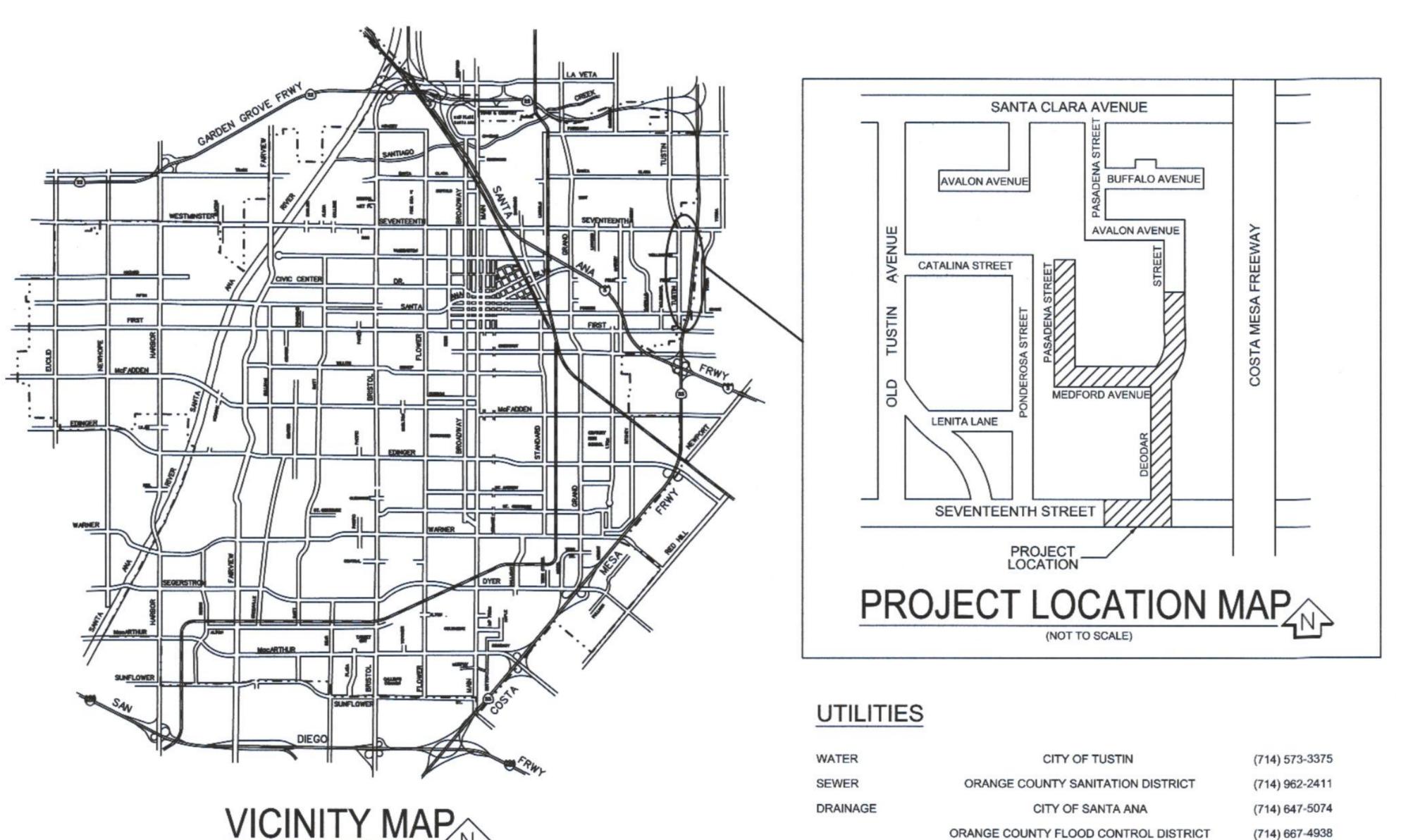
(714) 634-3040

(714) 591-4871

(714) 507-3256

(714) 895-0288

**EXISTING GATE VALVE** 



GAS

COMMUNICATION

**TELEPHONE** 

POWER

LEGEND			
PROPOSED DOMESTIC WATER	DW -		- DW
PROPOSED SANITARY SEWER	-		
RIGHT OF WAY	_		
PROPERTY LINE			
CENTERLINE			
EXISTING SEWER	0		
EXISTING DOMESTIC WATER	DW -		- DW
EXISTING GAS MAIN			
EXISTING STORM DRAIN			
EXISTING IRRIGATION			
NAVY JET FUEL			
PROPOSED SANITARY SEWER MANHOLE		•	
EXISTING PALM TREE		Sec.	
EXISTING TREE			
EXISTING SANITARY SEWER MANHOLE		·	
EXISTING FIRE HYDRANT		0	
PROPOSED FIRE HYDRANT			
EXISTING GAS METER		M	
EXISTING WATER METER			
EXISTING STREET LIGHT		*-0	

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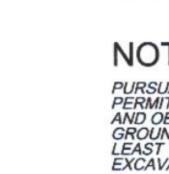
DEODAR STREET - 17th STREET TO AVALON AVE

# ABBREVIATIONS

**BEGIN CURVE** 

DUCTILE IRON PIPE

STA STATION TYP. TYPICAL VCP VITRIFIED CLAY PIPE



Call before you dig

PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS
AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDERGROUND SERVICE ALERT" (1-800-422-4133) AT
LEAST TWO WORKING DAYS PRIOR TO COMMENCING

of Southern California

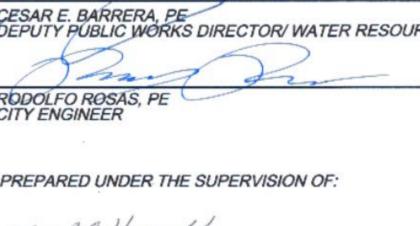
TWO WORKING DAYS

**BEFORE YOU DIG** 

# **APPROVALS**

45/2023 EXECUTIVE DIRECTOR PUBLIC WORKS AGENCY RODOLFO ROSÁS, PE CITY ENGINEER DATE





Miguel a Lemandy R.C.E. NO. 61378 MIGUEL HERNANDEZ

DATE

BAR MEASURES 1 INCH

SHEET 1 OF 15

3. THESE CONSTRUCTION DOCUMENTS WERE CREATED FROM DIGITIZED BASE INFORMATION PROVIDED BY THE CITY OF SANTA ANA. EXACT LAYOUTS OF ALL HARDSCAPE ELEMENTS MAY NEED TO BE MODIFIED AND SOME FIELD ADJUSTMENTS MAY BE NECESSARY. THE CONTRACTOR SHALL INCLUDE AS PART OF THE BID, TIME AND LABOR FOR ANY MODIFICATIONS NECESSARY TO IMPLEMENT THE INTENT OF THE DRAWINGS.

#### SEWER GENERAL NOTES

- 1. CONSTRUCTION AND INSTALLATION OF ALL SEWER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF SANTA ANA STANDARD PLANS AND SPECIFICATIONS. WHERE THE STANDARD PLANS ARE SILENT, CONSTRUCTION AND INSTALLATION OF SEWER MAINS AND APPURTENACES SHALL CONFORM TO THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) SPECIFICATIONS.
- 2. CONSTRUCTION OF SEWER MAINS AND APPURTENANCES SHALL ONLY BE PERFORMED BY QUALIFIED CONTRACTORS WITH A VALID CALIFORNIA CONTRACTOR A OR C34 LICENSE.
- 3. ALL NEWLY CONSTRUCTED SEWER MAINS AND APPURTENANCES SHALL BE TESTED IN ACCORDANCE WITH AWPA SPECIFICATIONS. ALL NEWLY CONSTRUCTED SEWER MAINS, LATERALS AND MANHOLES MUST BE INSPECTED VIA CLOSED CIRCUIT TELEVISION CAMERA BY A NATIONAL ASSOCIATION OF SEWER SERVICE COMPANIES (NASSCO)CERTIFIED TECHNICIAN AND VIDEO SUBMITTED IN A DIGITAL FORMAT TO THE WATER RESOURCES DIVISION FOR REVIEW AND FINAL ACCEPTANCE OF WORK.
- 4. ALL SEWER MAINS SHALL BE VITRIFIED CLAY PIPE (VCP) PIPE OR PVC SDR-26 PIPE. ALL OTHER PIPE MATERIALS REQUIRE SPECIAL REVIEW AND APPROVAL FROM THE WATER RESOURCES DIVISION.
- 5. TRENCH PLATES SHALL BE FLUSH WITH PAVEMENT.
- 6. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO TRENCHING.
- 7. WHEN PUBLIC SEWER FACILITIES ARE LOCATED ON PRIVATE PROPERTY, EASEMENT DOCUMENTS ARE TO BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO A PERMIT BEING ISSUED.
- 8. FINAL ACCEPTANCE WILL NOT OCCUR UNTIL ORIGINAL RECORD DRAWINGS ON MYLAR AND DIGITAL FORMAT ARE DELIVERED AND ACCEPTED BY THE CITY'S INSPECTOR. SHOW ALL FILED CHANGES ON RECORD DRAWINGS.
- 9. ALL SEWER REPAIRS SHALL BE ACCOMPLISHED USING STAINLESS STEEL DOUBLE BANDED COUPLINGS.

#### WATER GENERAL NOTES

FILE NO.

WA-06874

SE-06873

- 1. CONSTRUCTION AND INSTALLATION OF ALL WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF SANTA ANA STANDARD PLANS AND SPECIFICATIONS. WHERE THE STANDARD PLANS ARE SILENT, CONSTRUCTION AND INSTALLATION OF WATER MAINS AND APPURTENANCES SHALL CONFORM TO THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) SPECIFICATIONS.
- 2. CONSTRUCTION OF WATER MAINS AND APPURTENANCES SHALL ONLY BEPERFORMED BY QUALIFIED CONTRACTORS WITH A VALID CALIFORNIA CONTRACTOR A OR C34 LICENSE.
- 3. NO PERSON, OTHER THAN CITY OF SANTA ANA WATER RESOURCES DIVISION STAFF CERTIFIED BY THE STATE OF CALIFORNIA AS A WATER DISTRIBUTION OPERATOR, SHALL BE ALLOWED TO OPERATE THE CITY'S WATER SYSTEM VALVES.
- 4. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR REVIEW AND APPROVAL "DISINFECTION AND FLUSHING PLAN' PER THE CITY OF SANTA ANA DESIGN GUIDELINES AND STANDARD DRAWINGS.
- ALL NEWLY CONSTRUCTED WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED AND TEST IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION STANDARD C600'S, PRIOR TO CONNECTING TO THE CITY'S WATER DISTRIBUTION SYSTEM. DISINFECTING TESTING RESULTS SHALL BE SUBMITTED TO THE WATER RESOURCES DIVISION FOR REVIEW AND APPROVAL PRIOR TO CONNECTING TO THE CITY'S WATER DISTRIBUTION SYSTEM.
- 6. WATER MAINS WILL BE HYDROSTATIC TESTED AT 200 PSI FOR 2 HOURS. NEW WATER MAINS CANNOT BE TESTED AGAINST EXISTING VALVE BUT CAN BE TESTED USING A TEST PLATE.
- 7. REQUESTS TO SHUT-DOWN THE WATER DISTRIBUTION SYSTEM FOR TIE-INS OR OTHER PURPOSES SHALL BE COORDINATED WITH THE WATER RESOURCES DIVISION STAFF AT LEAST 2 WEEKS IN ADVANCE THROUGH THE CITY INSPECTOR. ALL CUSTOMERS AFFECTED BY THE PROPOSED SHUT DOWN SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE BY THE CONTRACTOR.
- 8. THE CITY IF SANTA ANA WATER RESOURCES DIVISION CANNOT GUARANTEE A COMPLETE SHUTDOWN OF EXISTING MAINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND ISOLATION OF CONSTRUCTION FOR TESTING OF ANY OTHER PURPOSES.
- ALL FIRE HYDRANTS WHICH ARE OUT OF SERVICE OR NEW FIRE HYDRANTS WHICH HAVE NOT BEEN ACCEPTED FOR SERVICE SHALL BE COVERED WITH A SACK INDICATING THAT THE HYDRANTS ARE NOT IN SERVICE.
- 10. MAINTAINING WATER SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY SHUTDOWN LASTING LONGER THAN FOUR (4) HOURS. METHOD OF PROVIDING TEMPORARY SERVICE MUST BE APPROVED BY THE WATER RESOURCES DIVISION. THE WATER SHALL BE SAFE FOR DRINKING IN ACCORDANCE WITH STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB) DRINKING WATER PROGRAM (DWP).

**REVISIONS** 

CONSTRUCTION COMPLETED:

NUMBER DATE INITIALS

# WATER GENERAL NOTES (CONTINUED)

- 11. WATER METER WILL NOT BE INSTALLED OR WATER TURNED ON UNTIL THE BACKFLOW DEVICES REQUIRED FOR THE BUILDING AND IRRIGATION SYSTEMS HAVE BEEN INSTALLED, TESTED, APPROVED AND CERTIFIED, AND APPROVED AND SIGNED OFF BY THE CITY, CONTACT WATER RESOURCES DIVISION AT 714-647-3320.
- 12. ALL WATER MAINS SHALL BE AWWA-C900 PVC, DR14 PIPE OR AWWA C-151 DUCTILE IRON PIPE. ALL OTHER PIPE MATERIALS REQUIRE SPECIAL REVIEW AND APPROVAL FROM THE WATER RESOURCES DIVISION.
- 13. WATER MAINS SHALL HAVE 36" MINIMUM COVER TO FINISHED GRADE. ANY DEVIATION FROM THIS REQUIREMENT REQUIRES APPROVAL FROM THE WATER RESOURCES DIVISION.
- 14. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION PRIOR TO TRENCHING.
- 15. PRIVATE WATER APPURTENANCES SUCH AS BACKFLOW PREVENTERES, FIRE HYDRANTS AND STANDPIPES, AND VALVES SHALL BE PAINTED AS FOLLOWS:
  - A. DOMESTIC WATER: BLUE
  - B. POTABLE IRRIGATION: GREEN
    C. RECYCLED IRRIGATION: PURPLE
  - D. FIRE PROTECTION: OSHA SAFETY RED
- 16. DO NOT CUT OR SNAP CUT OR MILL ASBESTOS CEMENT PIPE. WHERE JOINING EXISTING ASBESTOS CEMENT PIPE, EXPOSE SIX FEET IN EACH DIRECTION, LOOKING FOR THE NEARING JOINT AND JOIN TO NEW PIPE WITH A PROPERLY DIMENSIONED ADAPTER PER STANDARD PLAN NUMBER 1443.
- 17. DO NOT TAP EXISTING MAINS WITHOUT THE PRESENCE OF A CERTIFIED PUBLIC WORKS INSPECTOR. PRESSURE TEST TAPPING SLEEVE IN THE PRESENCE OF A CERTIFIED PUBLIC WORKS INSPECTOR BEFORE TAPPING EXISTING MAIN.
- 18. FINAL ACCEPTANCE WILL NOT OCCUR UNTIL ORIGINAL RECORD DRAWINGS ON MYLAR AND DIGITAL FILE ARE DELIVERED TO AND ACCEPTED BY THE CITY'S INSPECTOR. SHOW ALL FIELD CHANGES ON RECORD DRAWINGS.
- 19. TRENCH PLATES SHALL BE FLUSH WITH PAVEMENT AND SHALL BE NON-SKID.
- 20. WHEN PUBLIC WATER FACILITIES ARE LOCATED ON PRIVATE PROPERTY, EASEMENT DOCUMENTS ARE TO BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO A PERMIT BEING ISSUED.
- 21. ALL RECYCLED WATER PROJECTS REQUIRE REVIEW AND APPROVAL BY THE WATER RESOURCES DIVISION.
- 22. REMOVE FROM THE FIELD UPPER AND LOWER FIRE HYDRANTS DRY BARREL AND 24" X 36" IRON VAULT LID COVERS AND DELIVER UNDAMAGED TO THE CITY WATER RESOURCES DIVISION YARD LOCATED AT 215 S. CENTER STREET. PRIOR NOTIFICATION ON THE DELIVERY IS REQUIRED AT 714-647-3320.
- 23. WATER MAIN FITTINGS SHALL BE FLANGE OR MECHANICAL JOINTS ONLY, NO PUSH-ON JOINT FITTINGS ALLOWED.
- 24. CONTRACTOR SHALL NOT REMOVE OR DISPOSE EXISTING WATER METERS. CONTRACTOR SHALL APPLY FOR AN ABANDON WATER METER APPLICATION. CONTRACTOR SHALL CONTACT WATER RESOURCES DIVISION AT 714-647-3320 FOR EXISTING METER REMOVALS.
- 25. INSTALLATION OF NEW METER SERVICE CURB STOP SHALL BE DONE AFTER INSTALLATION OF NEW CURB AND GUTTER OR AFTER CONTRACTOR HAS ESTABLISHED THE PROPOSED CURB GRADE BY STAKING OF THE PROPOSED CURB.

#### STREET GENERAL NOTES

APPRVD WATER ATLAS & SEWER ATLAS

- 1. ALL WORK SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE AGC/APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2018 EDITION) AND SUPPLEMENTAL STANDARD PROVISIONS ISSUED BY AND FOR USE IN THE CITY OF SANTA ANA.
- CONTRACTOR SHALL COMPLY WITH STANDARD PLAN NO. 1160. REFER TO HTTPS://WWW.SANTAANA.ORG/SITES/DEFAULT/FILES/DOCUMENTS/1160\_ST.PDF. COPIES ARE AVAILABLE AT THE PUBLIC WORKS COUNTER.
- 3. WITHIN 72-HOURS AFTER FINAL SURFACING IS PLACED, ALL MANHOLE AND VALVE BOX FRAMES AND COVERS SHALL BE ADJUSTED BY THE DEVELOPER TO FINISH GRADE. THIS IS TO BE DONE PRIOR TO PLACING SEAL COAT.
- 4. WHEN CONSTRUCTION OF ASPHALT CONCRETE (AC) PAVEMENT INCLUDES REPLACEMENT OF PAVEMENT OVER TRENCHES, PATCHES OR CUTS OR AN AC OVERLAY, PAVEMENT SHALL BE COVERED WITH PENETRATION TYPE ASPHALT EMULSION (0.07 GALLONS PER SQUARE YARD) AFTER STREET PAVEMENT HAS BEEN CLEANED. FOG SEAL COAT IS NOT REQUIRED FOR CONSTRUCTION OF NEW STREETS OR WIDENING OF EXISTING STREETS.
- FEATHER AC WHERE MEETING EXISTING PAVEMENT. FEATHER TO LANE LINE OR A MINIMUM OF 10 FEET OR AS DIRECTED BY THE CITY ENGINEER.
- THE ENGINEER FOR THE SUBDIVIDER SHALL PROVIDE HUBS IN THE STREET FOR FINISHED SUBGRADE AND FINISHED GRADE AT THE CROWN, AT ALL POINTS WHERE ELEVATIONS ARE SHOWN ON THE PLANS AND AT ANY ADDITIONAL POINTS REQUIRED BY THE CITY ENGINEER.
- 7. AT THE TIME OF COMPACTING THE BASE SOIL AND PREPARING SUBGRADE, IF THE MOISTURE CONTENT IS SUCH THAT THE SPECIFIED RELATIVE COMPACTION CANNOT BE OBTAINED OR THE SUBGRADE IS YIELDING, THE FOLLOWING REMEDIAL ACTION SHALL BE PROVIDED:
  - A. REMOVE EXCESS MOISTURE BY SCARIFYING AND AERATING, OR
    B. EXCAVATE UNSTABLE AREAS AND BACKFILL WITH SUITABLE MATERIAL OR BASE, OR

**REFERENCES** 

BENCH MARK # 3C-26-06

ELEV. 157.56 NAVD88

- C. INCREASE THE AGGREGATE BASE SECTION, OR
  D. STABILIZE THE BASEMENT SOIL WITH SUITABLE ADDITIVES, OR
- E. PROVIDE AN ALTERNATE METHOD SUITABLE TO THE CITY ENGINEER.
- 8. WATER MAINS AND SERVICES ARE TO BE INSTALLED BY THE DEVELOPER AFTER THE CURB AND GUTTER IS CONSTRUCTED AND BEFORE THE BASE UNDER THE AC SURFACING IS LAID. CONTACT WATER DIVISION SUPERVISOR AT (714) 647-3343 TO ARRANGE SCHEDULING FOR WATER SYSTEM WORK BY THE CITY.
- THE SUBDIVIDER SHALL RELOCATE ANY EXISTING PUBLIC UTILITIES LOCATED IN A DEDICATED RIGHT-OF-WAY, AS REQUIRED BY THE CITY.

#### STREET GENERAL NOTES (CONTINUED)

- 10. PERMIT NOTE- NO PERMIT WILL BE ISSUED FOR INSTALLATION OF UNDERGROUND UTILITY LINES UNTIL SAID UTILITY LINES ARE SHOWN ON THE STREET IMPROVEMENT PLANS AND THEIR LOCATIONS ARE CERTIFIED BY THE PRIVATE ENGINEER AND APPROVED BY THE CITY.
- 11. VCP SEWER CONNECTIONS ARE TO BE CONSTRUCTED FROM SEWER MAIN JOHN PROPERTY LINE. THE DEVELOPER IS TO FURNISH THE CITY WITH THE LOCATION OF EACH CONNECTION. ALL SEWER LATERALS ARE TO BE REFERENCED ON CURB.
- 12. ALL VCP JOINTS SHALL BE PLASTIC MECHANICAL COMPRESSION JOINTS OR BANDSEALS.
- 13. IT SHALL BE THE RESPONSIBILITY OF THE SEWER CONTRACTOR TO EXPOSE ALL JOIN POINTS TO THE EXISTING SEWER AND TO HAVE THE LOCATION AND ELEVATION VERIFIED PRIOR TO ANY SEWER STAKES BEING FURNISHED.
- 14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL FLOW LINE ELEVATIONS AT ALL SEWER MANHOLES VERIFIED PRIOR TO ANY PIPE BACKFILL. "AS BUILT" FLOW LINE ELEVATIONS ARE TO BE SUBMITTED TO THE CITY PRIOR TO ANY PAVING.
- 15. CALL UNDERGROUND SERVICE ALERT AT (800) 422-4133 AT LEAST 48 HOURS (TWO WORKING DAYS) PRIOR TO ANY EXCAVATION WHICH MAY DAMAGE OR INTERRUPT THE SERVICE OF ANY UNDERGROUND UTILITY LINE.
- 16. USE FULL-DEPTH HEADER FOR VERTICAL FACES OF PCC CONSTRUCTION.
- 17. ANY PERMANENT BARRICADE OR SAFETY SIGN OMITTED ON THE PLANS AND CONSIDERED NECESSARY BY THE CITY SHALL BE INSTALLED BY THE DEVELOPER AT NO COST TO THE CITY.
- 18. STREET LIGHTING- BEFORE ANY ELECTRICAL CABLE OR CONDUIT IS PLACED FOR STREET LIGHTS, THE LOCATIONS FOR THE PROPOSED STREET LIGHTS ARE TO BE VERIFIED BY THE CONSTRUCTION INSPECTOR AT (714) 647-5074 AFTER THESE LOCATIONS HAVE BEEN MARKED OUT AS SHOWN ON THE IMPROVEMENT PLANS BY THE DEVELOPER/CONTRACTOR.
- 19. CLEANUP AND DUST CONTROL THE CONTRACTOR SHALL KEEP THE WORKSITE CLEAN AND FREE FROM RUBBISH AND DEBRIS AT THE END OF EVERY WORKING DAY AND PROTECT EXISTING IMPROVEMENTS PER SECTION 7-9 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
- 20. CONTACT TREE SECTION SUPERVISOR AT (714) 647-3337 BEFORE INSTALLING ANY TREES.
- 21. TO OBTAIN A PERMIT TO ACCESS WATER FROM A FIRE HYDRANT, CONTACT THE CITY YARD AT (714) 647-3380.

#### **PROJECT QUANTITIES**

6" CLASS 305 (DR14) C900 P.V.C. PIPE	5	LF
8" CLASS 305 (DR14) C900 P.V.C. PIPE	2000	LF
12" CLASS 305 (DR14) C900 P.V.C. PIPE	290	LF
1" COPPER WATER SERVICE	51	EA
2" COPPER WATER SERVICE	2	EA
8" RESILIENT WEDGE GATE VALVE	4	EA
FIRE HYDRANT	8	EA
REMOVE FIRE HYDRANT	1	EA
STEEL CASING	60	LF
VERTICAL OFFSET	18	LF
8" SDR-26 P.V.C. PIPE	660	LF
4" SEWER LATERAL AND CLEANOUT (OPEN TRENCH)	28	EA
REMOVE EXISTING MANHOLE STRUCTURE	1	EA
NEW MANHOLE STRUCTURE	4	EA
CCTV INSPECTION OF NEW SEWER MAIN	660	LF
CCTV INSPECTION OF NEW LATERAL	29	EA
UNCLASSIFIED EXCAVATION	1184	CY
ASPHALT RUBBER HOT MIX (2" MIN)	826	TN
COLD MILL (2")	68387	SF
PCC SIDEWALK ( T=4")	2493	SF
PCC DRIVEWAY APPROACH (T=6")	1988	SF
PCC CURB & GUTTER (A-2-6)	1281	LF
6" DIAMETER LOOP DETECTOR	2	EA
STRIPPING	1	LS
1	•	

PREPARED UNDER

HE SUPERVISION OF:

MIGUEL A. HERNANDEZ

CONSTRUCTABILITY

RECOMMENDED FOR

CONSTRUCTION:

REVIEWED FOR

JASON GABRIEL

(/≶ No. 61378 3

CIVIL

Expiration

06-30-23

Miguel a. Hernandy

DRAWN: SB CHECKED: MH

RCE NO.: 62968

NGINEER OF RECORD

INCIPAL CIVIL ENGINEER

Frank Frank

RINCIPAL CIVIL ENGINEER

SIGNED: SB

#### **SEWER CONSTRUCTION NOTES:**

7) CONSTRUCT 8" SDR-26, P.V.C. SEWER MAIN. TRENCH, BEDDING, BACKFILL, AND PAVING PER DETAIL ON SHEET 6.

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2

WATE

NNE

- (15) CONSTRUCT 4" P.V.C. SDR 26 SEWER LATERAL AND CLEANOUT FROM SEWER MAIN TO P.L. PER CITY STD. PLAN NO. 1204. SEE NOTE.
- (21) CONSTRUCT NEW MANHOLE PER CITY STD. PLAN NO. 1201. (FOR P.V.C. FURNISH AND INSTALL MANHOLE WATER STOP RUBBER GASKET AT OUTER AND INNER WALL FOR EACH MANHOLE CONNECTION).
- (25) MANHOLE CHANNELIZATION PER DETAIL ON SHEET 6.
- (26) REMOVE EXISTING MANHOLE

#### **WATER CONSTRUCTION NOTES:**

- (30) CONSTRUCT 8" CLASS 305 (DR14), AWWA C900, PVC WATER MAIN. PER DETAIL ON SHEET 1
- CONSTRUCT NEW 1" WATER SERVICE PER CITY STD. PLAN NO. 1401 NEXT TO EXISTING SERVICE. CONTRACTOR TO TIE OVER AFTER CITY INSTALLS NEW METER.
- (32) CONSTRUCT 8" GATE VALVE (MJ X MJ) PER CITY STD. PLAN 1410.
- (33) CONSTRUCT 8" 90° BEND (MJ X MJ).
- (34) CONSTRUCT 8" 45° BEND (MJ X MJ).
- Operation of a Bene (wax
- (36) CONSTRUCT 8" 11¼° BEND (MJ X MJ).
- (38) CONSTRUCT 8" X 8" TEE (FLG X FLG).
- (39) CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER CITY STD. PLAN NO. 1405.
- (44) CONSTRUCT THRUST BLOCK PER CITY STD. PLAN NO. 1412.
- (45) CONSTRUCT 8" CAP WITH 2" BLOW OFF PER CITY STD. PLAN NO. 1414.
- (46) CONSTRUCT VALVE ANCHOR PER CITY STD. PLAN NO. 1419.
- (47) SEE TYPICAL CONNECTION PER DETAIL HEREON.
- (48) FURNISH AND INSTALL STEEL CASING PER CITY STD. PLAN NO. 1429. STEEL CASING LIMITS
- (49) CONSTRUCT 6" X 8" REDUCER (MJ X MJ).
- (50) CONSTRUCT 8" X 12" REDUCER (MJ X MJ)
- (51) CONSTRUCT 12" 90° BEND (MJ X MJ).

PER PLAN.

- CONSTRUCT 2" WATER SERVICE PER CITY STD. PLAN NO. 1402. FROM NEW WATER MAIN TO EXISTING WATER METER. RESET METER AND RECONNECT TO CUSTOMER LINE.
- (53) CONSTRUCT 12" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN. PER DETAIL ON SHEET
- (55) CONSTRUCT 6" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN PER DETAIL ON SHEET 11
- (56) CONSTRUCT TYPE 2 VERTICAL OFFSET PER CITY STD. PLAN NO. 1413B.
- REMOVE AND SALVAGE EXISTING FIRE HYDRANT FROM BURY TRANSPORT TO CITY YARD.
- (57) INSTALL ENVIROPOD LITTATRAP FILTER IN CATCH BASINS.

### **STREET CONSTRUCTION NOTES:**

- (1) CONSTRUCT DRIVEWAY P.C.C. APPROACH PER CITY OF SANTA ANA STD. 1112.
- CASE PER PLAN. T=6"
- (2) CONSTRUCT P.C.C. SIDEWALK (CASE 1) PER CITY OF SANTA ANA STD. 1104 (A-2-6). W PER PLAN.
- (3) CONSTRUCT P.C.C. CURB AND GUTTER A-2-6 PER CITY OF SANTA ANA STD. 1101.
  (5) COLDMILL 2" AC AND CONSTRUCT ASPHALT RUBBER HOT MIX 2" MIN.
- (6) REMOVE TOP 2' OF SOIL AND RECOMPACT TO 90%
- 7) ADJUST MANHOLE TO GRADE PER CITY OF SANTA ANA STD. 1201.
- (8) CONSTRUCT TRANSITION SIDEWALK PANEL TO MATCH EXISTING.
- (11) INSTALL WHITE TURN LANE PER CITY OF SANTA ANA STD. 1125B
- (12) INSTALL WHITE TURN ARROW TYPE VII (R) PER CALTRANS STD. A24A
  (14) INSTALL DOUBLE YELLOW LINE PER CITY OF SANTA ANA STD. 1125B
- (15) INSTALL 6' DIAMETER LOOP DETECTOR, FIRST LOOP BEHIND STOP BAR SHALL BY TYPE D, ALL OTHER LOOPS SHALL BE TYPE E PER CALTRANS STD. PLAN ES-5B. REPLACING EXISTING
- (16) ADJUST VALVE TO GRADE

#### **DISPOSITION NOTES:**

A PROTECT IN PLACE

#### LEGEND:

SAWCUT AND REMOVE EXISTING P.C.C. SLAB CURB, GUTTER AND/OR SIDEWALK AND RECONSTRUCT AS SHOWN ON PLAN.



COLDMILL EXISTING PAVEMENT AND RECONSTRUCT AS SHOWN ON PLAN.

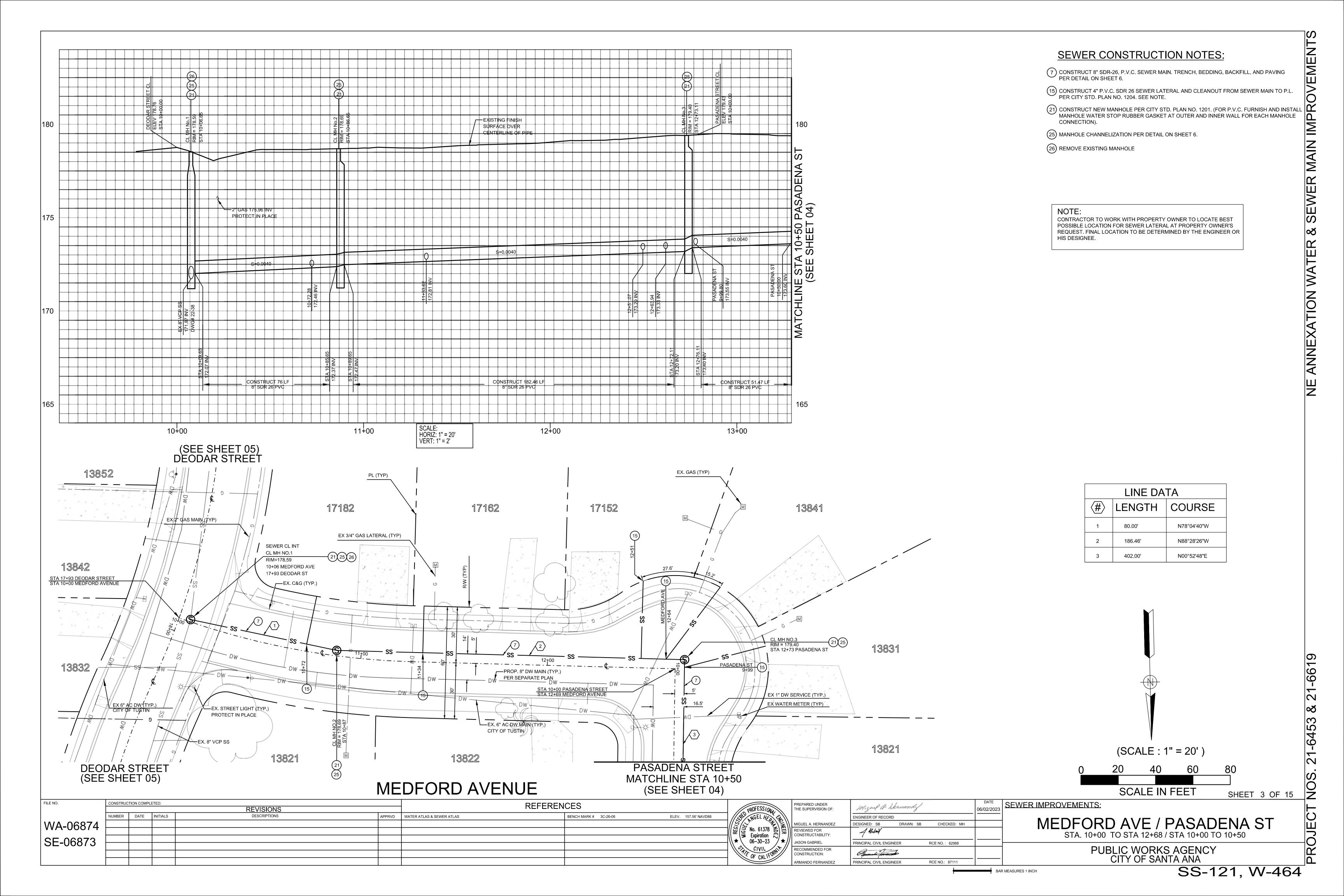
SHEET 2 OF 15

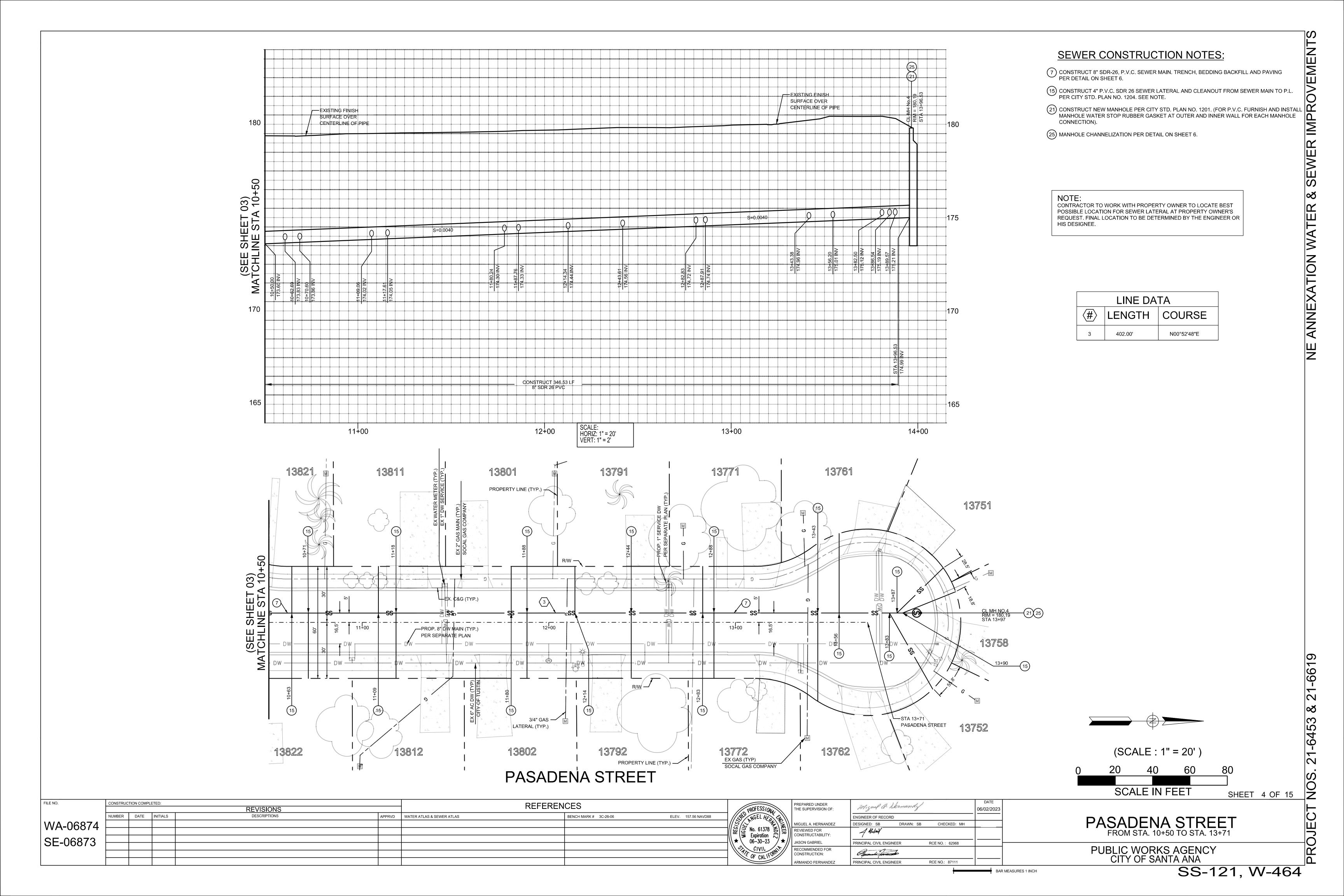
PROJECT QUANTITIES AND CONSTRUCTION NOTES

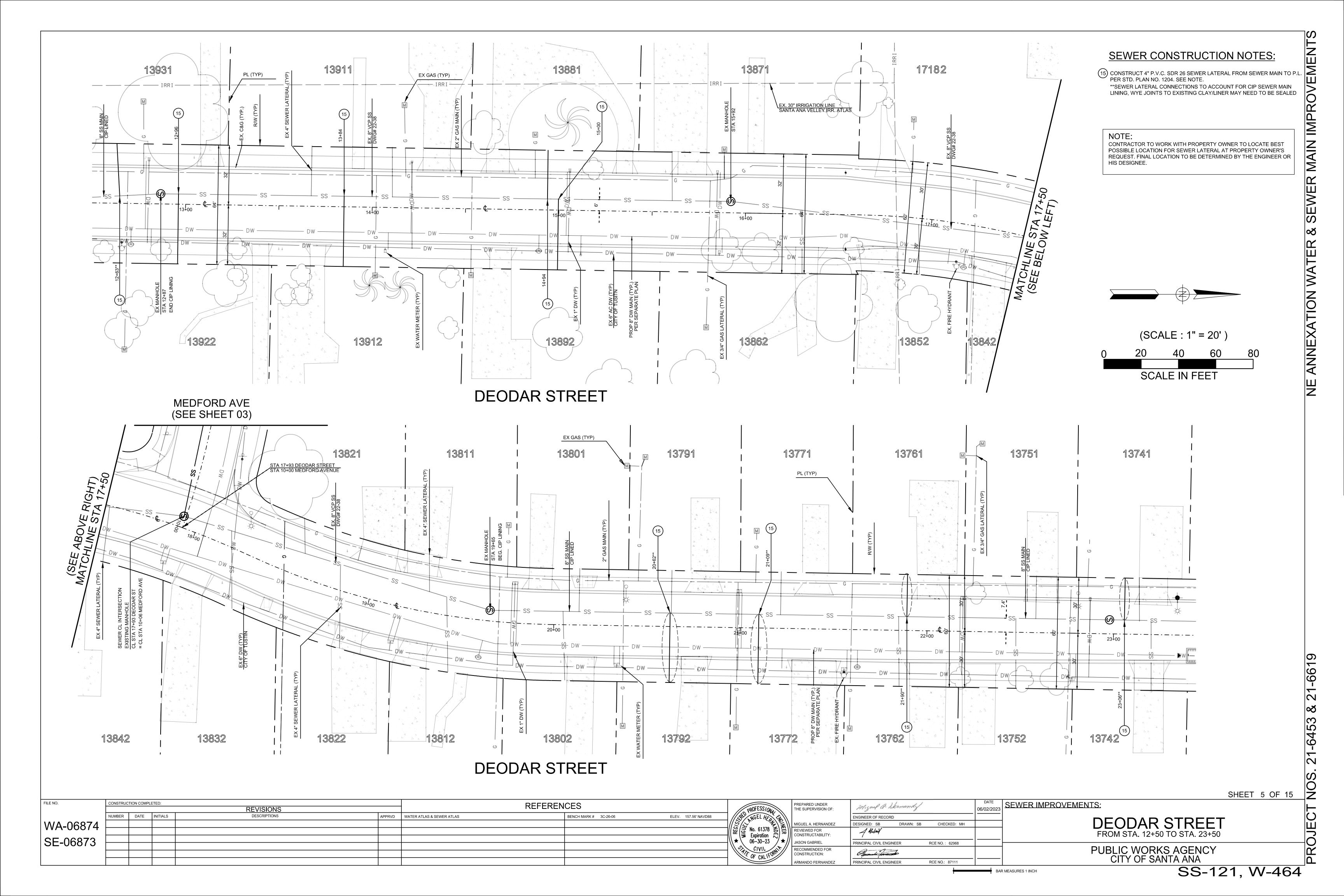
PUBLIC WORKS AGENCY CITY OF SANTA ANA

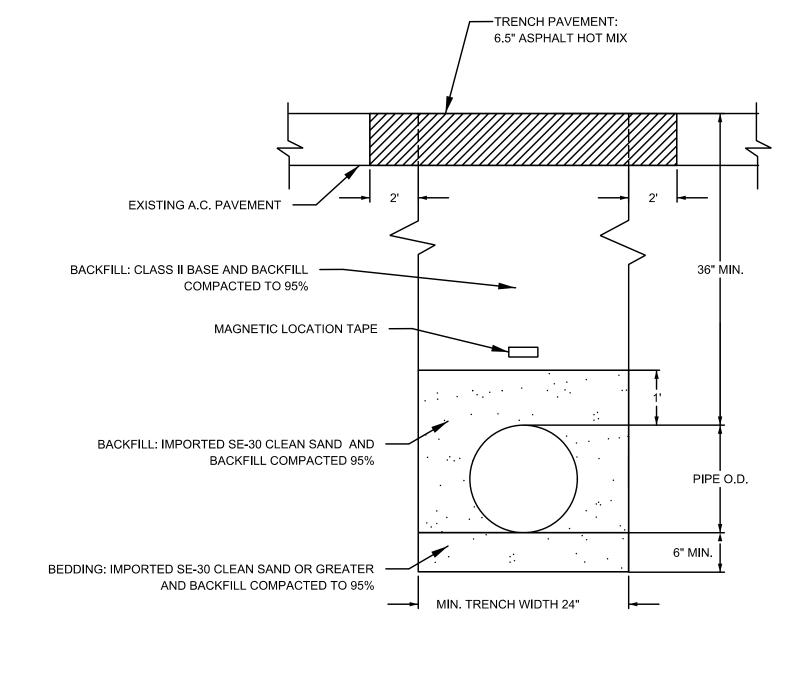
GENERAL NOTES, LEGEND,

06/02/2023

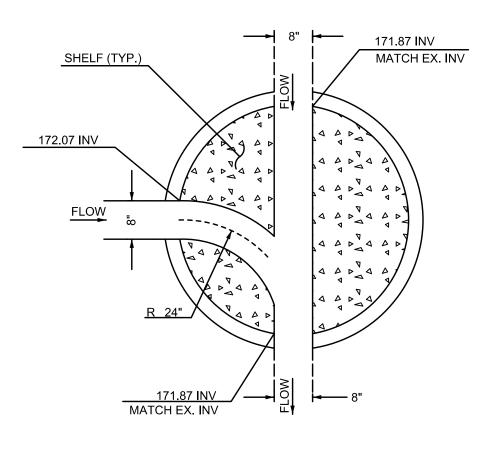




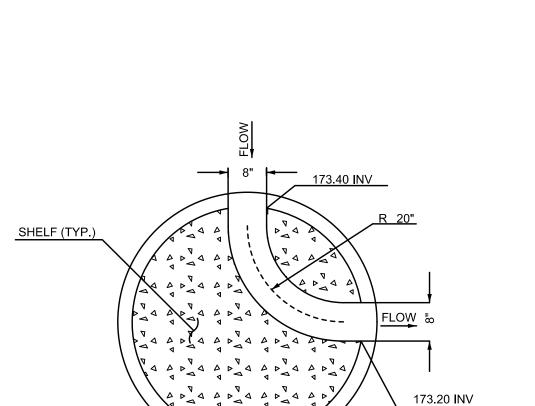




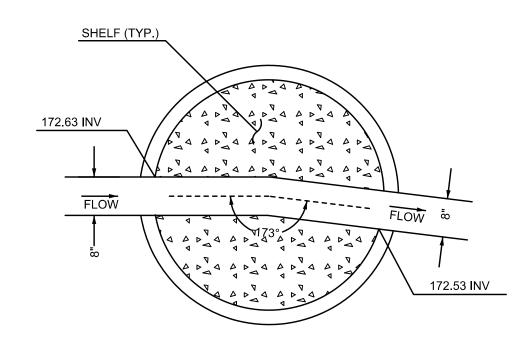
SEWER MAIN TRENCH DETAIL



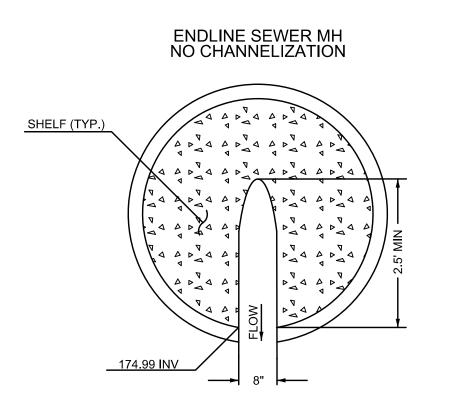
**SEWER CHANNELIZATION DETAIL** MH NO.1 CL STA 10+06 MEDFORD AVENUE



**SEWER CHANNELIZATION DETAIL** MH NO.3 CL STA 12+73 MEDFORD AVENUE



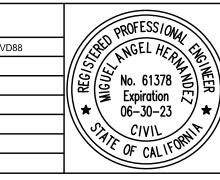
SEWER CHANNELIZATION DETAIL MH NO.2 CL STA 10+87 MEDFORD AVENUE



SEWER CHANNELIZATION DETAIL MH NO.4 CL STA 13+97 PASADENA STREET

FILE NO. CONSTRUCTION COMPLETED: REFERENCES REVISIONS

DESCRIPTIONS ELEV. 157.56' NAVD88 NUMBER DATE INITIALS BENCH MARK# 3C-26-06 APPRVD WATER ATLAS & SEWER ATLAS WA-06874 SE-06873



	PREPARED UNDER THE SUPERVISION OF:	Miguel a. Dernandy	DATE 06/02/2023
		ENGINEER OF RECORD	
<u> </u>	MIGUEL A. HERNANDEZ	DESIGNED: SB DRAWN: SB CHECKED: MH	
Ħ)	REVIEWED FOR CONSTRUCTABILITY:	A Hebril	
	JASON GABRIEL	PRINCIPAL CIVIL ENGINEER RCE NO.: 62968	
	RECOMMENDED FOR CONSTRUCTION:	Frank former	
	ARMANDO FERNANDEZ	PRINCIPAL CIVIL ENGINEER RCE NO.: 87111	

SEWER IMPROVEMENTS: SEWER DETAILS & SEWER CHANNELIZATION

PUBLIC WORKS AGENCY CITY OF SANTA ANA

SHEET 6 OF 15

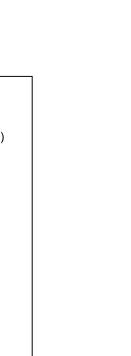
#### **WATER CONSTRUCTION NOTES:**

- (30) CONSTRUCT 8" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN. PER DETAIL ON SHEET 11
- (32) CONSTRUCT 8" GATE VALVE (MJ X MJ) PER CITY STD. PLAN 1410.
- (39) CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER CITY STD. PLAN NO. 1405.
- (44) CONSTRUCT THRUST BLOCK PER CITY STD. PLAN NO. 1412.
- (46) CONSTRUCT VALVE ANCHOR PER CITY STD. PLAN NO. 1419.
- (47) SEE TYPICAL CONNECTION PER DETAIL HEREON.
- 48) FURNISH AND INSTALL STEEL CASING PER CITY STD. PLAN NO. 1429. STEEL CASING LIMITS PER PLAN.
- (50) CONSTRUCT 8" X 12" REDUCER (MJ X MJ).
- (51) CONSTRUCT 12" 90° BEND (MJ X MJ).
- (52) CONSTRUCT 2" WATER SERVICE PER CITY STD PLAN NO. 1402. FROM NEW WATER MAIN TO EXISTING WATER METER. RESET METER AND RECONNECT TO CUSTOMER LINE.
- (53) CONSTRUCT 12" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN. PER DETAIL ON SHEET
- (55) CONSTRUCT 12" GATE VALVE (MJ X MJ) PER CITY STD. PLAN 1410.
- (57) REMOVE AND SALVAGE EXISTING FIRE HYDRANT FROM BURY. TRANSPORT TO CITY YARD.

LINE DATA							
<b>(#</b> )	LENGTH	COURSE					
1	58.05'	N01°27'37"E					
2	14.99'	N88°32'23"W					
3	217.34'	N88°32'23"W					
4	196.70'	N00°53'53"E					

# **REFERENCE**

DWG. NO. 1-017-26 STORM DRAIN & STREET IMPROVEMENT PLAN SANTA ANA VALLEY IRRIGATION ATLAS DWG. NO. 22-38 SANITARY SEWER PLAN & PROFILE



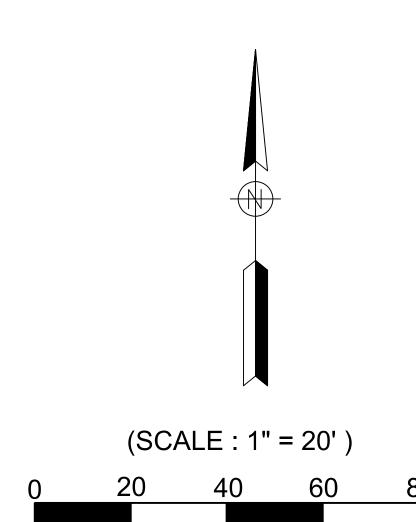
NOTE: NAVY JET FUEL LINE TO BE FIELD VERIFIED. USE EXTREME CAUTION. (SEE PROJECT NO. 1729 DE-03)

CONTRACTOR TO CONTACT APEX COMPANIES MICHAEL NEWELL AT (562) 588-5045 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION AND 72 HOURS PRIOR TO INSPECTION.

CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF NAVY JET FUEL LINE PRIOR TO JACK AND BORE BENEATH MEDIAN.

CONTRACTOR TO REBUILD LATERALS AT CONNECTION POINT IF SERVICES ARE TOO CLOSE TO EXISTING CAP.

HOT TAP EXISTING 8" CAST IRON WATER MAIN AT NEAREST UPSTREAM VALVE CONNECTION TO PROVIDE CONTINOUS SERVICE.



SCALE IN FEET

FILE NO.	CONSTRUC	TION COMPL	ETED:			REFEREN	ICES	T
				REVISIONS		NEFENEN	ICES	
	NUMBER	DATE	INITIALS	DESCRIPTIONS	APPRVD	WATER ATLAS & SEWER ATLAS	BENCH MARK # 3C-26-06 ELEV. 157.56' NAVD88	7/
WA-06874								٦//:
VV/\-\\\\\								
SE-06873								$\mathbb{I}$
3E-000/3								7 //

PROFESS/ONAL	PREPARED UNDER THE SUPERVISION OF:	Miguel a. Hern
NGEL HEO. CE		ENGINEER OF RECORD
( 多) [ ] ( )	MIGUEL A. HERNANDEZ	DESIGNED: SB DR
Expiration (2)	REVIEWED FOR CONSTRUCTABILITY:	A Hebrit
06-30-23 /★//	JASON GABRIEL	PRINCIPAL CIVIL ENGINEER
OF CALIFORNIA	RECOMMENDED FOR CONSTRUCTION:	Bunde Jane
	ARMANDO FERNANDEZ	PRINCIPAL CIVIL ENGINEER

DEODAR STREET

MATCHLINE STA 10+75

(SHEET 08)

EX 2" GAS MAIN

PROTECT IN PLACE

EX NAVY FUEL LINE (TYP.)

EAST BOUND 17TH STREET

EX. 30" IRRIGATION LINE

EX. 24" SD CROSSING

DEPTH TO BE VERIFIED

--PROPERTY LINE

EX. 30" IRRIGATION LINE -

SANTA ANA VALLEY IRR. ATLAS

55 FWY ON RAMP

SOUTH BOUND

STA 9+34

SANTA ANA VALLEY IRR. ATLAS

EX. 3/4" GAS LATERAL -

-EX 8" DIP DW

CITY OF TUSTIN

STATE R/W —

**\**\_\_R/W

2400

—CONSTRUCT 12" DR 14 AWWA 53

C900 PVC WATER MAIN

CONSTRUCT 8" X 12" REDUCER 50

EX. 24" SD —

2401

EX. DW CROSSING -

—STA 7+65(55)(32)

EX. 8" VCP SS —

44 48 51 STA 7+50, 24' LT -END CORE & CASING

EX. MEDIAN (TYP.) —

EX. NUF CROSSING

STA 8+08

PROTECT IN PLACE

44 47 48 50 51 STA 6+92, 34' RT -TIE IN CONNECTION

BEG. CORE & CASING

52) 2" SERVICE

52)2" SERVICE ·

EXISTING 8" CAST IRON WATER -

CONTRACTOR TO LOCATE AND VERIFY EXISTING

WATERLINE CONDITION AND CONSTRUCT

TRANSITION COUPLING TO CONNECT TO NEW

MAIN TO BE PROTECTED IN

TRANSITION COUPLING: —

PIPELINE

57) EX. FIRE HYDRANT —

STA 7+70

STA 7+74

8" CI DW MAIN -

CITY OF SANTA ANA

T STA 8+18

STA 8+08

──EX 4<sup>†</sup> GAS

FIRE HYDRANT (39)

—CONTRACTOR TO VERIFY

DW MAIN PRIOR TO

CONSTRUCTION.

LOCATION AND SIZE OF END

CAP/THRUST BLOCK ON EX. 8"

-REMOVE EXISTING CAP/PLUG

—CONSTRUCT 8" DR 14 AWWA 30

C900 PVC WATER MAIN

WATERLINE CONNECTION DETAIL

STA 7+81

46 32 STA 10+62 -

EX. DW CROSSING

STA 10+40 DEODAR ST

STA 10+35 DEODAR 87

171.35 BOP 8" PVC DW

970.35 TOP 8" VCP SS

DW & GAS CROSSING -

STA 9+82

51 50 44 STA 9+85 -

-PROP DW & EX. 30" IRRIGATION

STA 9+41 DEPTH TO BE

	PREPARED UNDER THE SUPERVISION OF:	Miguel a. Vernandy	DATE 06/02/2023	WATER IMPROVEMENTS:
\		ENGINEER OF RECORD		
M	MIGUEL A. HERNANDEZ	DESIGNED: SB DRAWN: SB CHECKED: MH		
;))	REVIEWED FOR CONSTRUCTABILITY:	A Hebril		
$/\!/$	JASON GABRIEL	PRINCIPAL CIVIL ENGINEER RCE NO.: 62968		
/	RECOMMENDED FOR CONSTRUCTION:	Frank frank		PU

RCE NO.: 87111

55 FWY\_OFF RAMP \_\_\_

STATE R/W

WEST BOUND 17TH STREET '

17221

EX 8" DIP DW CITY OF TUSTIN

EX. CURB & GUTTER (TYP.)

PROTECT IN PLACE

EX. 6" AC DW MAIN

CITY OF TUSTIN

EX. NAVY JET FUEL LINE

TO BE VERIFIED

—EX 4" GAS MAIN

PROTECT IN PLACE

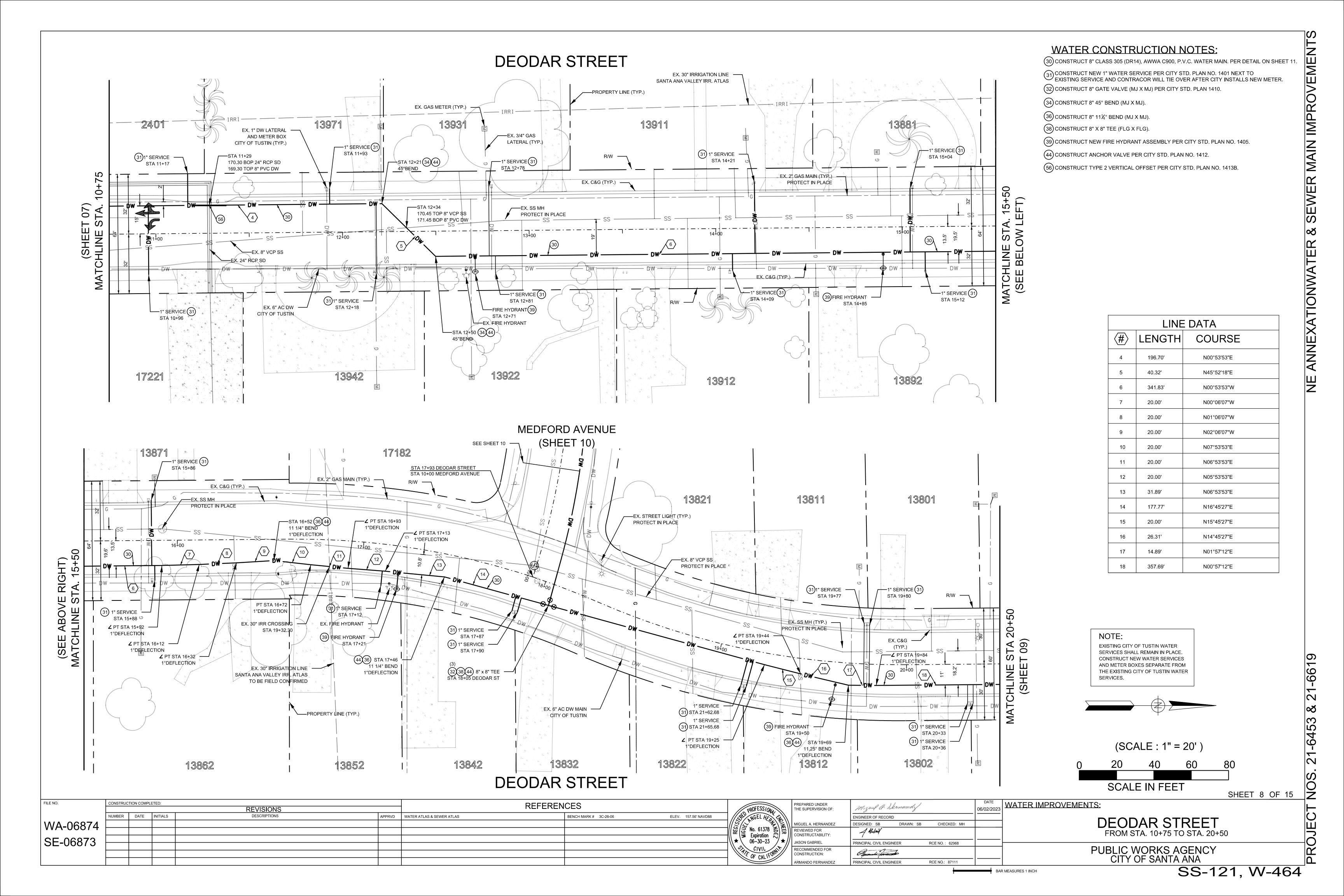
STA 10+00 E 17TH ST

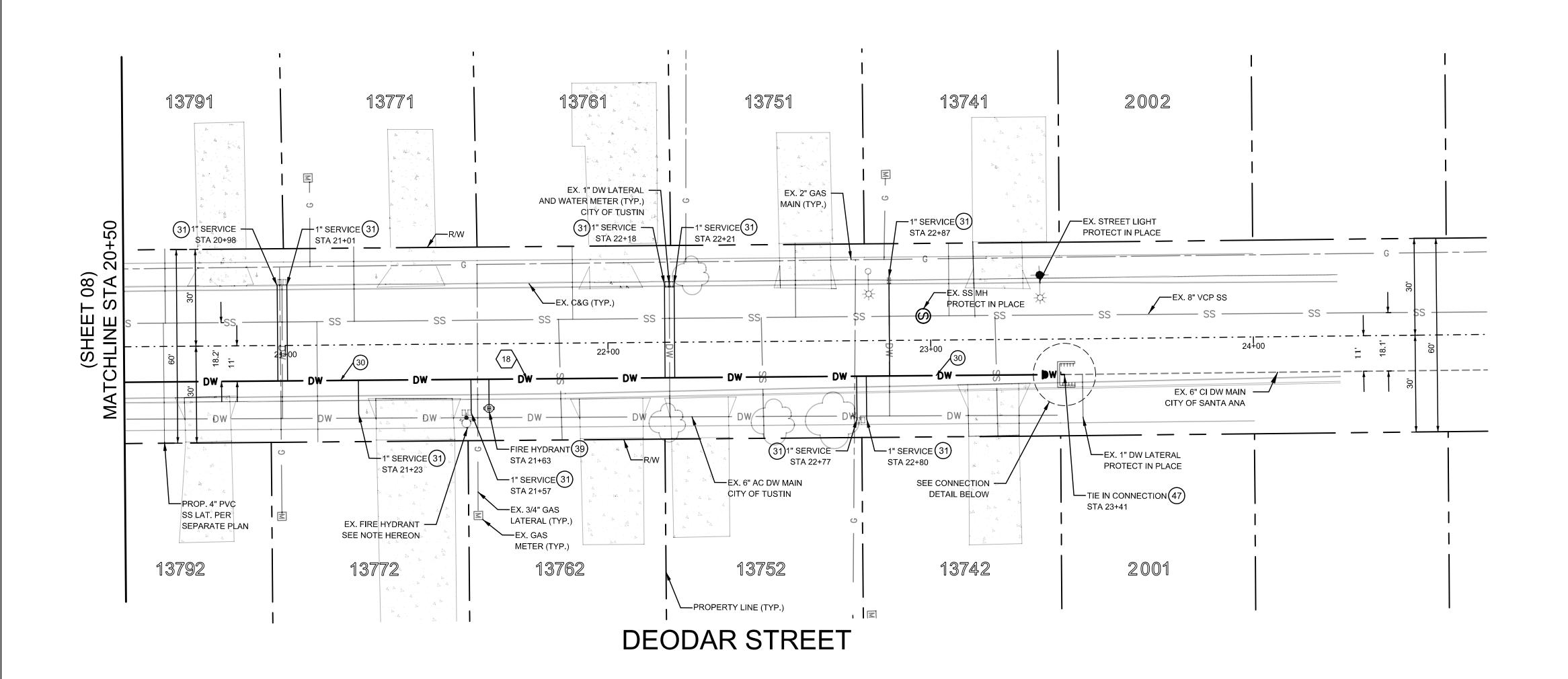
STA 10+00 MEDFORD AVENUE

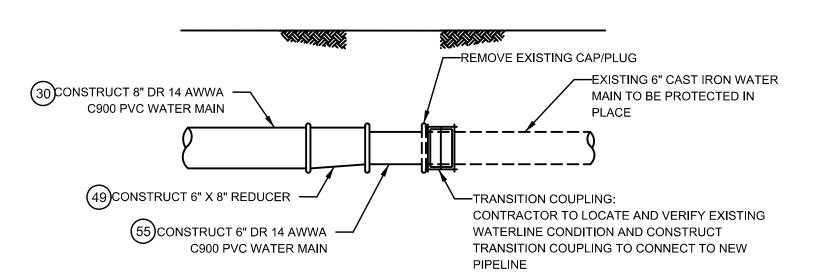
E 17TH STREET FROM STA. 7+00 TO STA. 12+00

PUBLIC WORKS AGENCY CITY OF SANTA ANA

SHEET 7 OF 15







WATERLINE CONNECTION DETAIL

FILE NO. CONSTRUCTION COMPLETED: REFERENCES REVISIONS BENCH MARK # 3C-26-06 NUMBER DATE INITIALS APPRVD WATER ATLAS & SEWER ATLAS ELEV. 157.56' NAVD88 WA-06874 SE-06873

PROFESSION

No. 61378

No. 61378

Expiration

06-30-23

No. 61378

Expiration

No. 61378

E OF CALIFORNIA

Miguel a. Dernandy PREPARED UNDER IGINEER OF RECORD DRAWN: SB CHECKED: MH SIGNED: SB INCIPAL CIVIL ENGINEER RCE NO : 62968 RECOMMENDED FOR Frank Frank CONSTRUCTION: PRINCIPAL CIVIL ENGINEER RCE NO.: 87111

WATER IMPROVEMENTS: DEODAR STREET FROM STA. 20+50 TO STA. 25+00

PUBLIC WORKS AGENCY CITY OF SANTA ANA

BAR MEASURES 1 INCH

**WATER CONSTRUCTION NOTES:** 

30 CONSTRUCT 8" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN. PER DETAIL ON SHEET 1

CONSTRUCT NEW 1" WATER SERVICE PER CITY STD. PLAN NO. 1401 NEXT TO EXISTING SERVICE. CONTRACTOR TO TIE OVER AFTER CITY INSTALLS NEW METER. (39) CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER CITY STD. PLAN NO. 1405.

47) SEE TYPICAL CONNECTION PER DETAIL HEREON.

49 CONSTRUCT 6" X 8" REDUCER (MJ X MJ).

(55) CONSTRUCT 6" CLASS 305 (DR14), AWWA C900, P.V.C. WATER MAIN. PER DETAIL ON SHEET 1

MAIN IMPROVEME

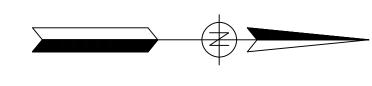
ANNEXATIONWATER

21-6619

LINE DATA LENGTH | COURSE N00°57'12"E 357.69'

NOTE:

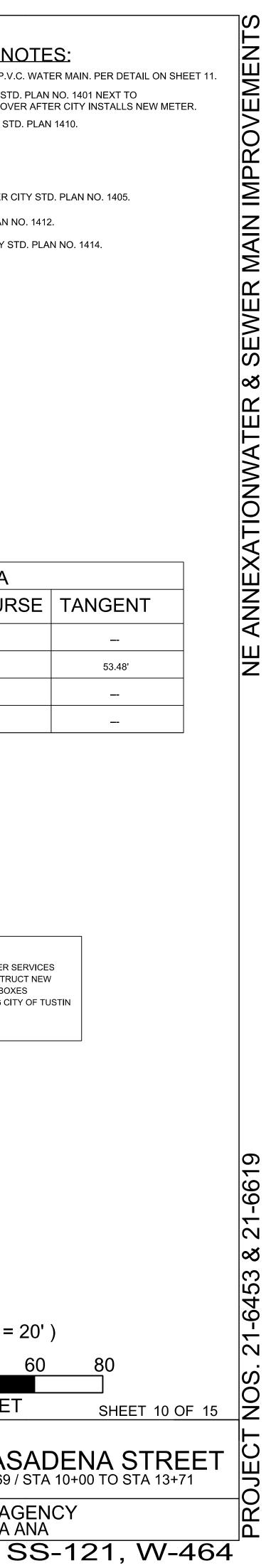
EXISTING CITY OF TUSTIN WATER SERVICES SHALL REMAIN IN PLACE. CONSTRUCT NEW WATER SERVICES AND METER BOXES SEPARATE FROM THE EXISTING CITY OF TUSTIN WATER SERVICES.

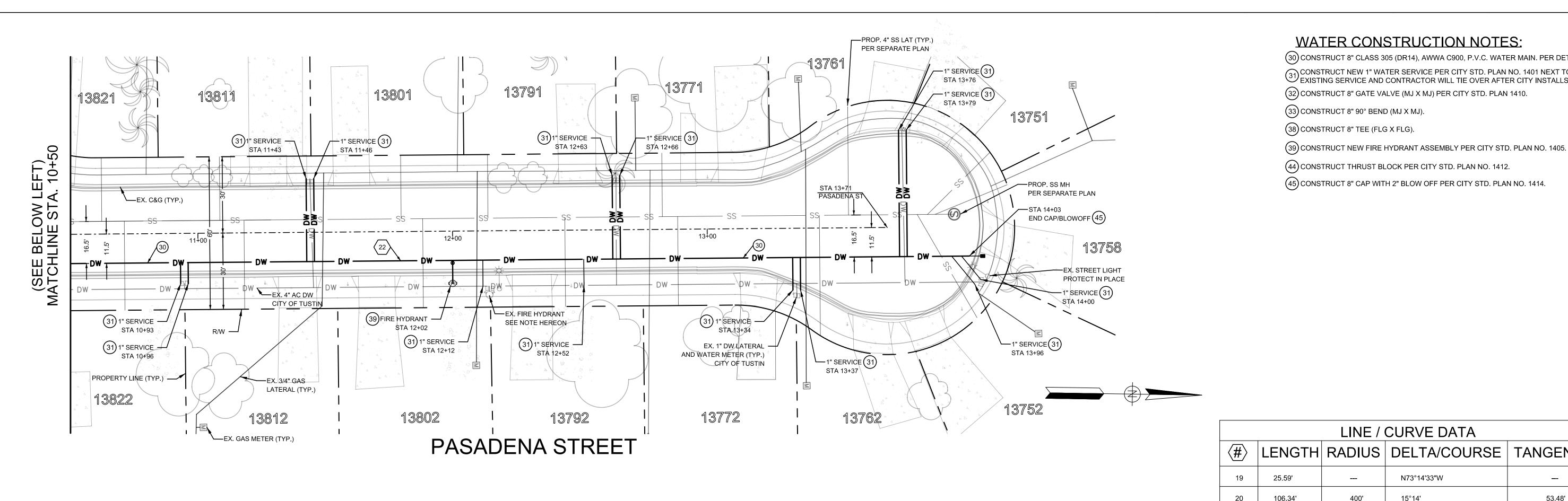


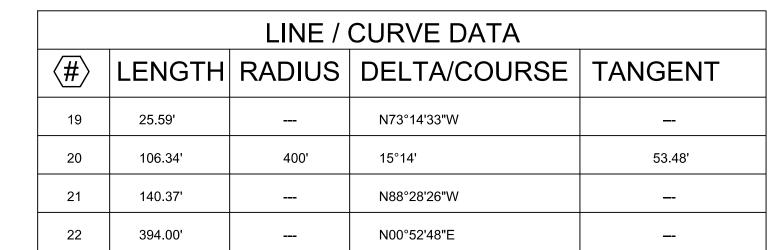
(SCALE: 1" = 20')

SCALE IN FEET SHEET 9 OF 15

SS-121, W-464







PUBLIC WORKS AGENCY CITY OF SANTA ANA

DRAWN: SB CHECKED: MH

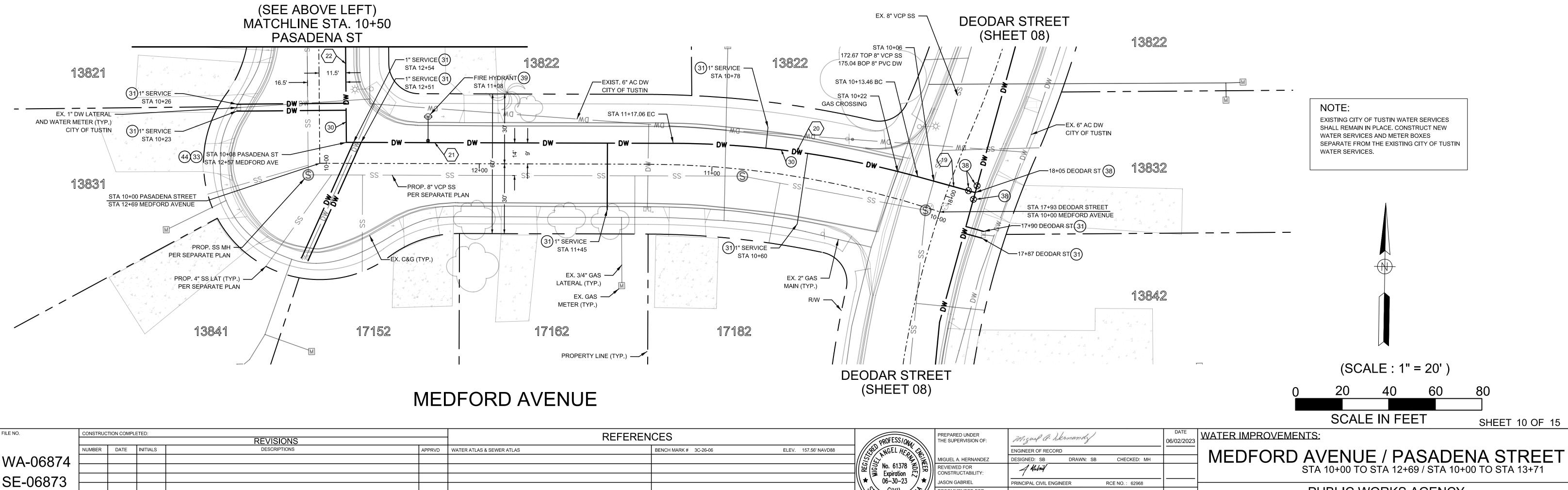
Frank Jane

PRINCIPAL CIVIL ENGINEER

RCE NO.: 62968

RCE NO.: 87111

BAR MEASURES 1 INCH



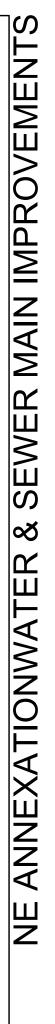
OF CALIFORNIA

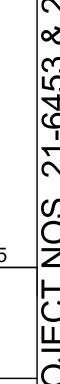
RECOMMENDED FOR

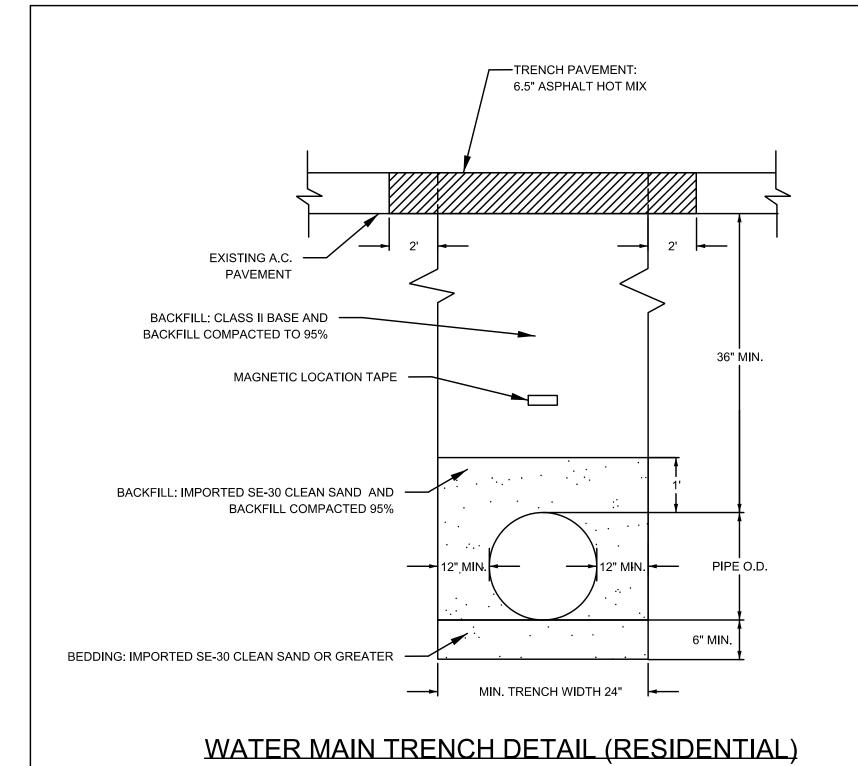
CONSTRUCTION:

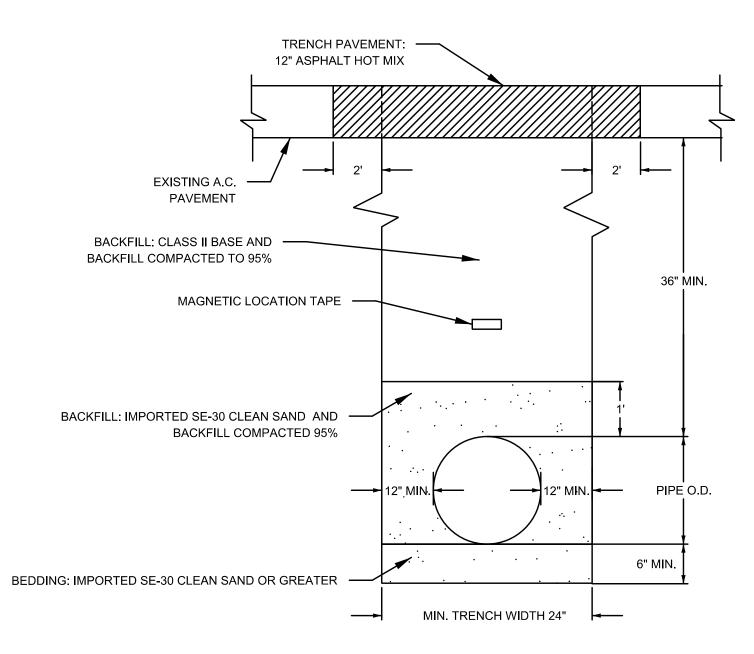
WA-06874

SE-06873









WATER MAIN T-TRENCH DETAIL (17TH ST.)

FILE NO. CONSTRUCTION COMPLETED: REFERENCES REVISIONS

DESCRIPTIONS NUMBER DATE INITIALS BENCH MARK # 3C-26-06 APPRVD WATER ATLAS & SEWER ATLAS ELEV. 157.56' NAVD88 WA-06874 SE-06873

PROFESS/OWALTHE SUPERVISION OF:

MIGUEL A. HERNANDEZ

REVIEWED FOR
CONSTRUCTABILITY:

JASON GABRIEL

RECOMMENDED FOR
CONSTRUCTION:

ARMANDO FERNANDEZ

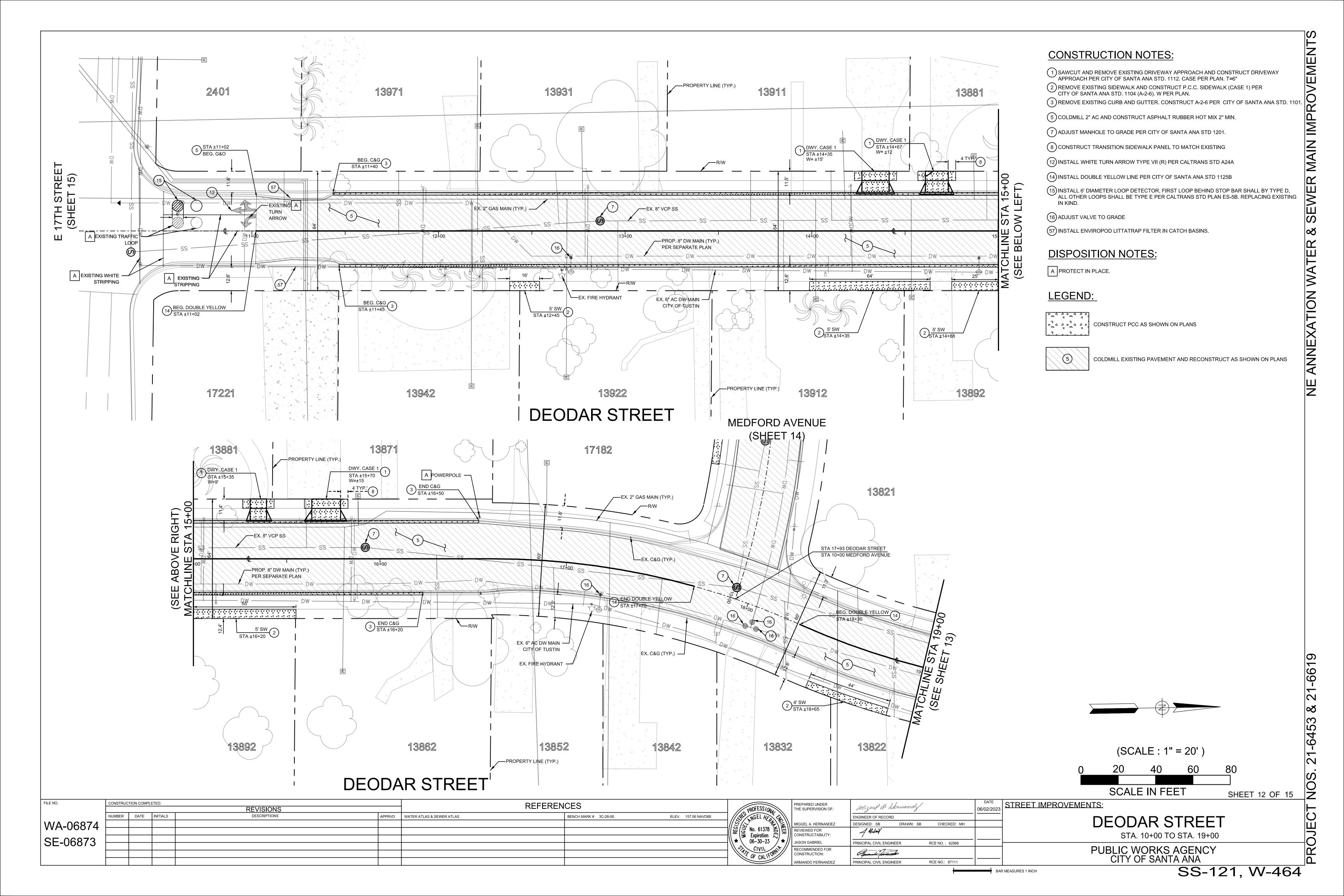
WATER IMPROVEMENTS: PREPARED UNDER
THE SUPERVISION OF: NGINEER OF RECORD RCE NO.: 62968 PRINCIPAL CIVIL ENGINEER RCE NO.: 87111

SHEET 11 OF 15

PUBLIC WORKS AGENCY
CITY OF SANTA ANA
SS-121, W-464

WATER DETAILS

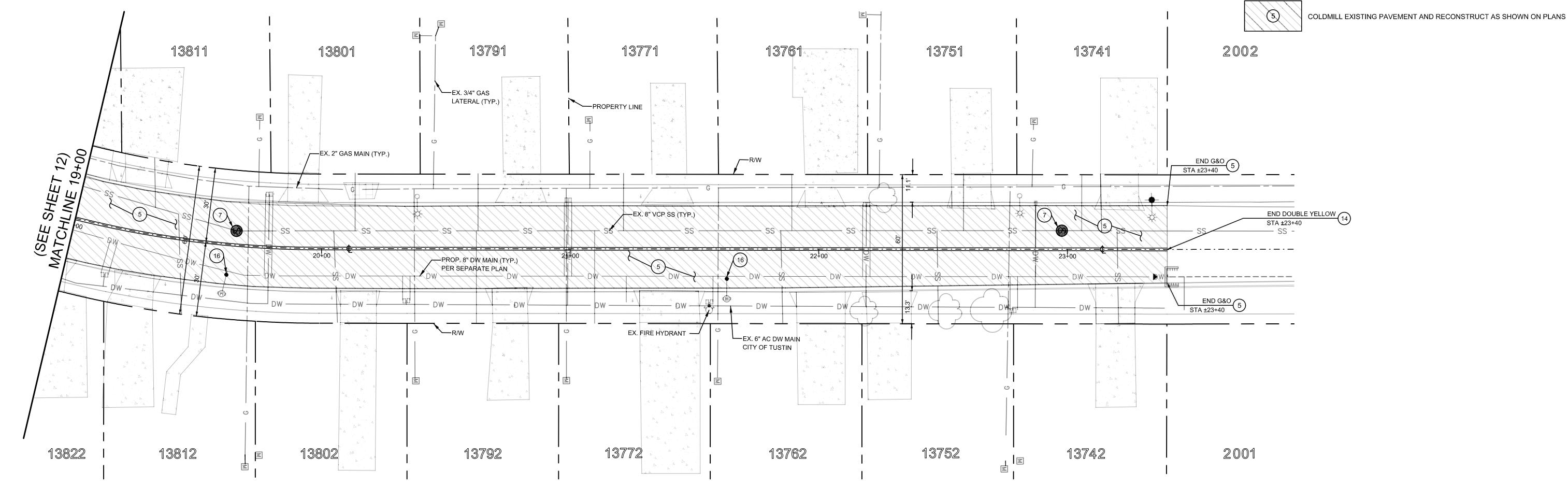
BAR MEASURES 1 INCH



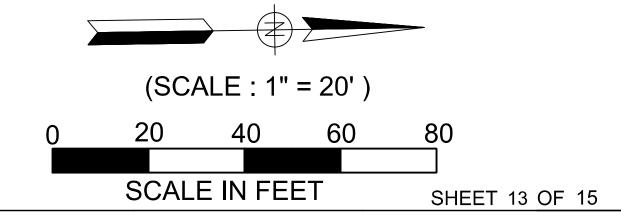
# **CONSTRUCTION NOTES:**

- (5) COLDMILL 2" AC AND CONSTRUCT ASPHALT RUBBER HOT MIX 2" MIN.
- 7) ADJUST MANHOLE TO GRADE PER CITY OF SANTA ANA STD 1201.
- 14) INSTALL DOUBLE YELLOW LINE PER CITY OF SANTA ANA STD 1125B
- (16) ADJUST VALVE TO GRADE

# LEGEND:



DEODAR STREET



FILE NO.	CONSTRUC	TION COMPL	LETED:				REFERENCES		
				REVISIONS			REFERENCES		
	NUMBER	DATE	INITIALS	DESCRIPTIONS	APPRVD	WATER ATLAS & SEWER ATLAS	BENCH MARK # 3C-26-06	ELEV. 157.56 NAVD88	
WA-06874									$\square / \! /$
VVA-0001 <del>1</del>									-
CE 06072									$\square \parallel$
SE-06873									//
									$\dashv$ $'$
					<u> </u>				$\neg$

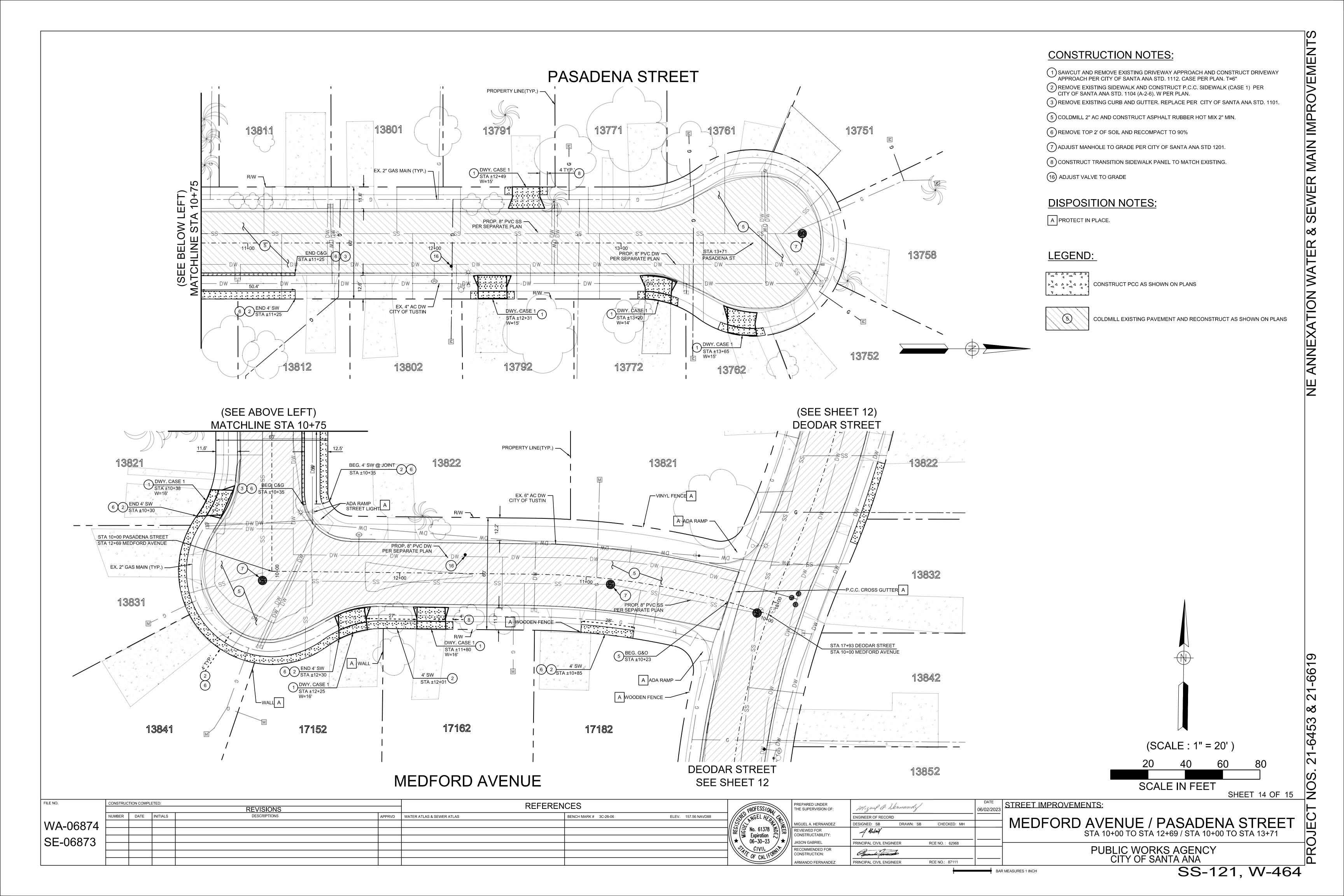
	PROFESS/ONAL CASE NO STATE OF TO 27	PREP
18	No. 61378 NEER PROJECTION OF STREET	
	//公/心 多/至 \	MIGU
	Me 61378 NO. 613	REVI
	【 ̄     Expiration <i>に】~  </i>	CONS
		JASO
	Wer CIVIL /JE/	RECO
·	OF CALIFORNIA	CONS
	OF CREE	ARMA

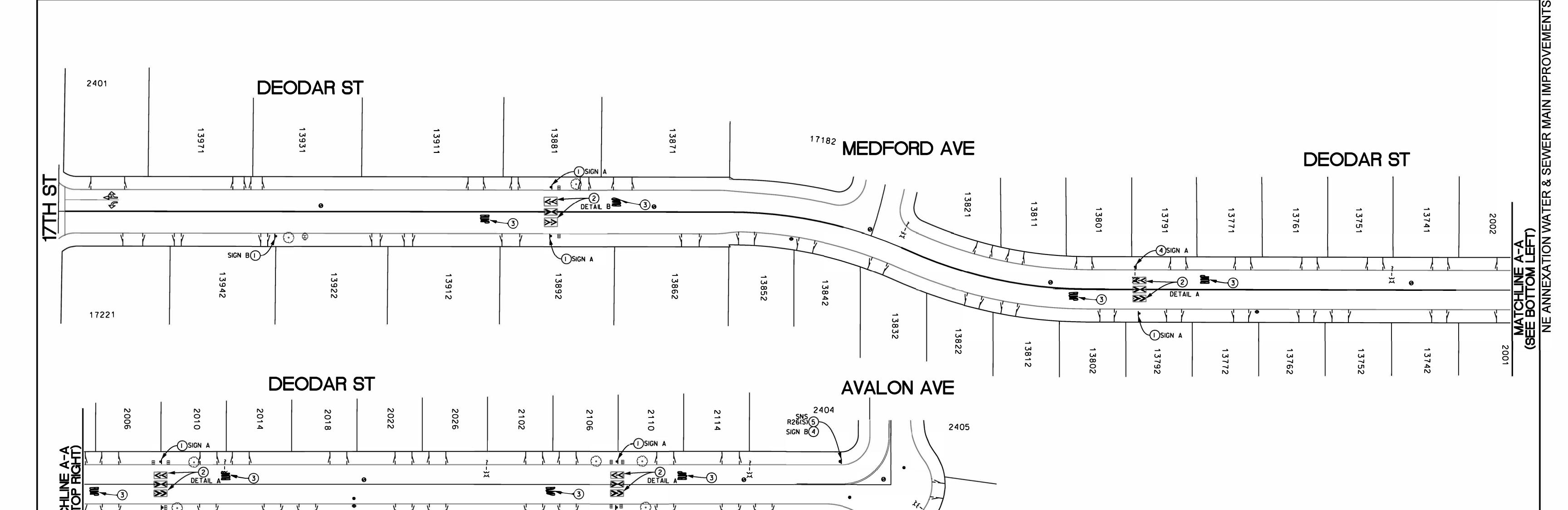
	PREPARED UNDER	121/ 11	DATE	C
	THE SUPERVISION OF:	Miguel a. Lernandy	06/02/2023	_
		ENGINEER OF RECORD		
W	MIGUEL A. HERNANDEZ	DESIGNED: SB DRAWN: SB CHECKED: MH		
))	REVIEWED FOR CONSTRUCTABILITY:	of Arbail		
//	JASON GABRIEL	PRINCIPAL CIVIL ENGINEER RCE NO.: 62968		
,	RECOMMENDED FOR CONSTRUCTION:	Frank Frank		
	ARMANDO FERNANDEZ	PRINCIPAL CIVIL ENGINEER RCE NO.: 87111		

STREET IMPROVEMENTS: **DEODAR STREET** STA. 19+00 TO STA. 24+00 PUBLIC WORKS AGENCY CITY OF SANTA ANA

SS-121, W-464

BAR MEASURES 1 INCH





# GENERAL NOTES

SIGN A

0

- I. ALL STRIPING SHALL CONFORM TO THE CITY OF SANTA ANA STANDARD PLAN NO. 1125 (A THROUGH E). ALL ITEMS OR DETAILS NOT COVERED IN THE CITY STANDARD PLANS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE 2018 STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.
- 2. ALL PAVEMENT LEGENDS, STOPBARS/CROSSWALKS SHALL BE THERMOPLASTIC. ALL OTHER STRIPING SHALL BE EXTRUDED THERMOPLASTIC.
- 3. ALL CROSSWALKS, LIMIT LINES, AND LEGENDS SHALL BE WHITE UNLESS NOTED OTHERWISE.
- 4. ALL NEW SIGNS MUST BE INSTALLED ON NEW 2"x2" PERFORATED AND GALVANIZED METAL POSTS UNLESS NOTED OTHERWISE. ALL SALVAGED SIGNS SHALL BE DELIVERED TO THE CITY CORPORATE YARD. CONTACT CITY MAINTENANCE AT (714) 647-3339 PRIOR TO DELIVERY.
- 5. UNLESS NOTED OTHERWISE, ALL LIMIT LINES SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE BACK OF ADJACENT BACK OF WALK BUT SHALL NOT ENCROACH INTO THE LANDING AREA OF THE WHEEL CHAIR RAMP.
- 6. ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, AND RAISED PAVEMENT MARKERS SHALL BE REMOVED EVEN IF NOT SHOWN ON THE PLAN. REMOVAL OF STRIPING AND PAVEMENT MARKINGS SHALL BE DONE BY GRINDING. ALL DAMAGED PAVEMENT DUE TO REMOVAL OF CONFICTING STRIPING SHALL BE REPAIRED WITH SLURRY AS NECESSARY TO MAINTAIN A SMOOTH AND UNIFORM SURFACE.
- 7. ALL FIRE HYDRANT LOCATIONS SHALL BE MARKED WITH BLUE REFLECTIVE RPM PER SANTA ANA STD. PLAN NO. 1125A.
- 8. ALL NEW SCHOOL AND PEDESTRIAN SIGNS SHALL BE OF THE TYPE WITH FLUORESCENT YELLOW-GREEN BACKGROUND AND BLACK LETTERING AND BORDERS.
- 9. TAMPER PROOF SCREWS SHALL BE USED ON ALL SIGN INSTALLATIONS.

#### CONSTRUCTION NOTES

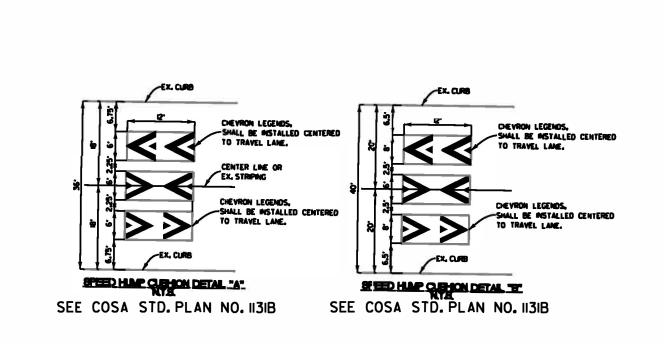
() INSTALL NEW SIGN(S) AND NEW POST(S), PER CITY OF SANTA ANA STD. PLAN NO'S. 1131B, 1504A-B AND AS SHOWN HEREIN.

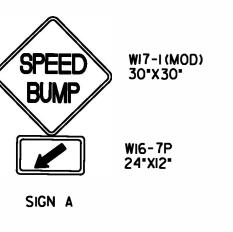
SIGN A

- 2 INSTALL ASPHALT SPEED HUMP CUSHIONS PER CITY OF SANTA ANA STD PLAN NO. 1131B AND DETAIL "A" AND "B" HEREIN.
- (3) INSTALL OR REFRESH THERMOPLASTIC LEGEND(S), AS SHOWN. GRIND EXISTING LEGEND IF NECESSARY.
- (4) INSTALL NEW SIGN(S) ON EXISTING STREET LIGHT OR POST(S). RESET SIGNS AND/OR REPLACE EXISTING POLE PER CITY OF SANTA ANA STD. PLAN NO. 1504A-B, TO MEET 7' MIN. ADA REQUIREMENT, IF NECESSARY.
- 5 PROTECT IN PLACE.

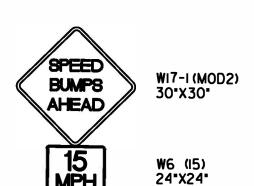
# SIGN LEGEND

15 MPH (24" X 24") WIG-7P DOWNWARD DIAGONAL ARROW (PLAOUE) (24" X 12")
WI7-I (MOD) SPEED BUMP (30" X 30") WI7-I (MOD2) SPEED BUMPS AHEAD (30" X 30")









SIGN B



**Underground Service Alert** of Southern California TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR PURSUANT TO ASSEMBLY BILL 4216 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS A DIG ALERT TICKET NUMBER. CALL 811 AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.

SUEET 15 DE

FILE NO.:	$\overline{\lambda}$					REVISIONS			REFERENCES	/60	ROFESSION	PREPARED UNDER THE SUPERVISION	Sdampk Ka. Ku. Sa. 05.	ATE /2023	STREET IMPROVEMENTS:	SHEET 15 OF 15 CH-01
6	80,  ¤	IUMBER	DATE	INIT	IALS	DESCRIPTION	APPROVEC	INSTALLE	ED BENCHMARK NO.: ELEV	/·: /// // // // // // // // // // // // /	DEK IERT	OF: REVIEWED FOR	PRINCIPAL CIVIL ENGINEER RCE NO.:66219 DESIGNED:RJA DRAWN:RJA CHECKED:RC		DEODAR STREET	
										1 {{ } }	No. C66219 **	CONSTRUCTABILITY:	PRINCIPAL CIVIL ENGINEER RCE NO.: 62968	/2023	17TH ST TO AVALON AVE	j
	F			*						NATE OF THE PROPERTY OF THE PR	OF CALIFORNIE	RECOMMENDED FOR CONSTRUCTION:	BA-Y V-V-O	/2023	PUBLIC WORKS AGENCY CITY OF SANTA ANA	