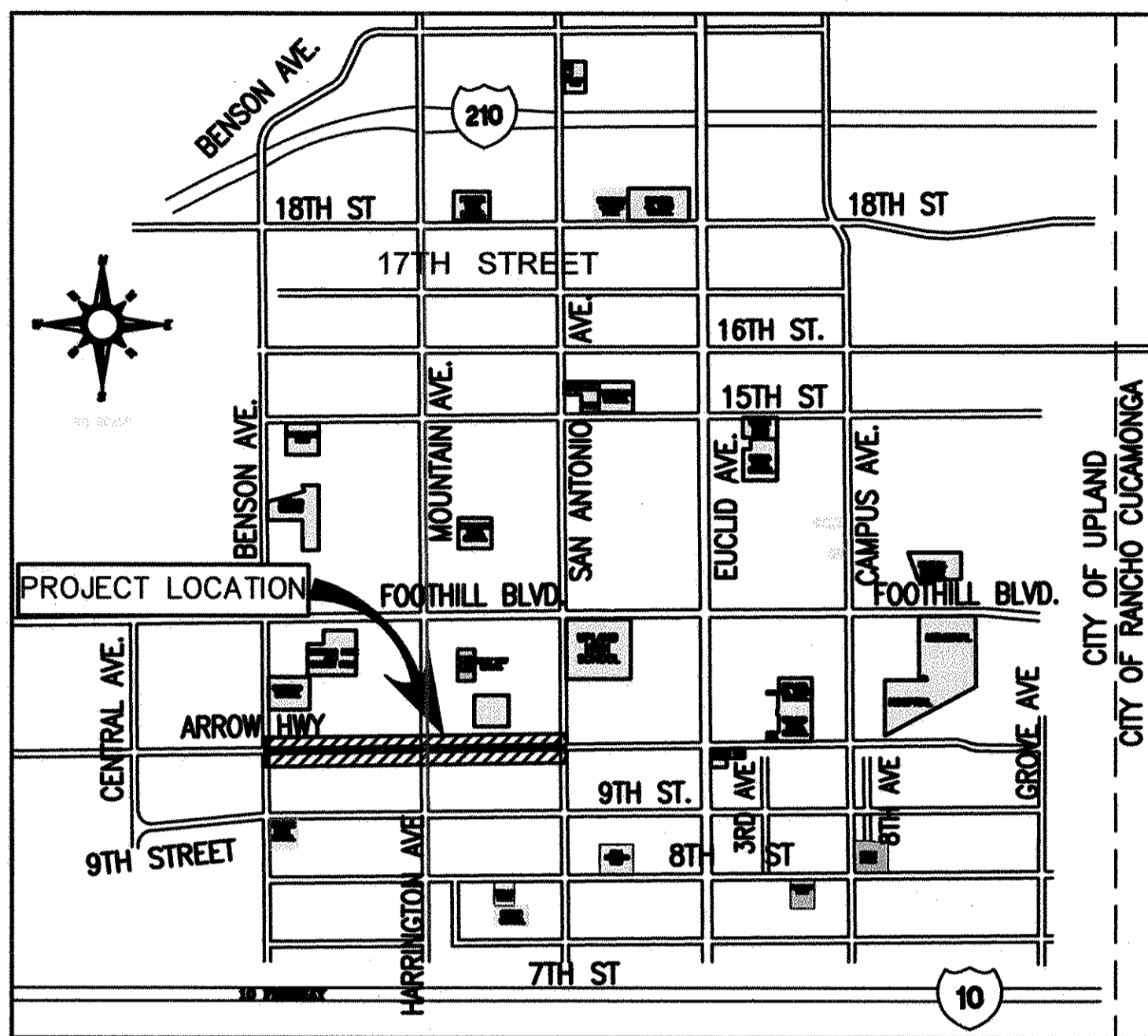


CITY OF UPLAND PUBLIC WORKS DEPARTMENT

CONSTRUCTION PLANS
FOR
PROJECT NO. 7069, 9124 & 9142
ARROW HIGHWAY

PAVEMENT REHABILITATION & UTILITY IMPROVEMENTS FROM BENSON AVENUE TO SAN ANTONIO AVENUE



VICINITY MAP
N.T.S.

PROJECT SITE

LEGEND

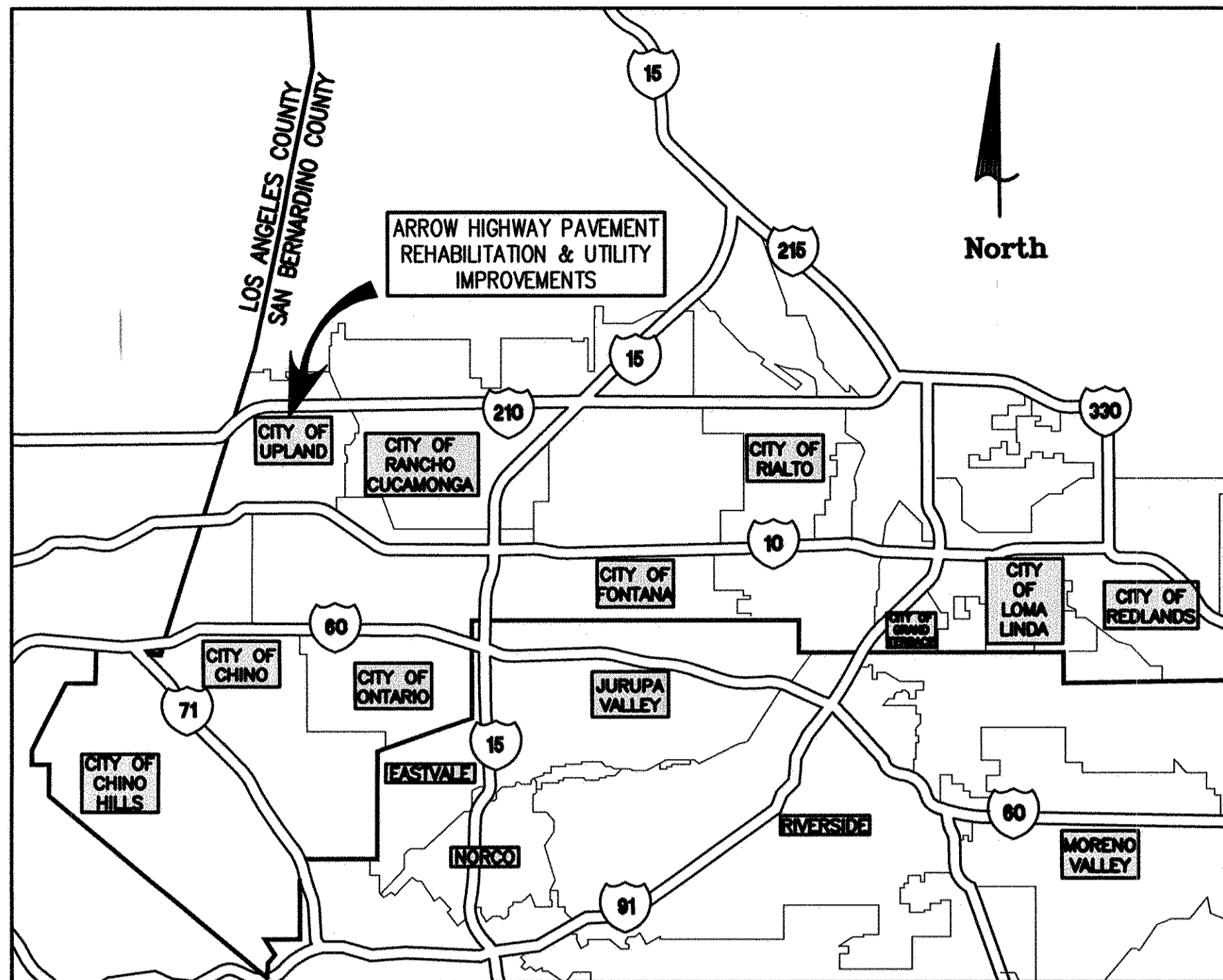
	ASPHALT PAVEMENT		BARBED WIRE FENCE
	BACK-FLOW VALVE		BLOCK WALL
	BUSH		CENTERLINE
	CONTROL POINT		CHAIN LINK FENCE
	ELECTRIC MANHOLE		EDGE OF PAVEMENT
	FIRE HYDRANT		FLOW LINE
	FLAG POST		OVERHANG
	FOUND MONUMENT AS NOTED		OVERHEAD LINE
	GAS METER		RIGHT-OF-WAY
	GAS VALVE		WOOD FENCE
	GATE		WROUGHT IRON FENCE
	GROUND ELECTRIC		2"-INCH ASPHALT RUBBER HOT MIX (ARHM)
	GROUND LIGHT		4"-INCH BASE COURSE (PG 64-10-B)
	GUARD POST		6"-INCH CRUSHED AGGREGATE BASE (CAB)
	GUY WIRE		PROPOSED PCC SIDEWALK
	IRRIGATION CONTROL VALVE		
	IRRIGATION CONTROL BOX		
	LIGHT STANDARD		
	LIGHT STANDARD		
	POST INDICATOR VALVE		
	POWER POLE		
	SEWER CLEAN OUT		
	SEWER MANHOLE		
	SIGN		
	STAIRS SHOWING DOWNWARD DIRECTION		
	STORM DRAIN MANHOLE		
	STREET LIGHT		
	TELECOM MANHOLE		
	TREE (TYPICAL)		
	UTILITY POLE		
	VENT		
	WATER FAUCET		
	WATER METER		
	WATER VALVE		

ABBREVIATIONS

PROP.	PROPOSED	PCC	PORTLAND CEMENT CONCRETE	RT	RIGHT
EX.	EXISTING	FH	FIRE HYDRANT	EA	EACH
TEMP.	TEMPORARY	TELE	TELEPHONE	A.C.	ASPHALT CONCRETE
EG.	EXISTING GROUND	WV	WATER VALVE	BEG.	BEGIN
EP	EDGE OF PAVEMENT	WM	WATER METER	TRANS.	TRANSITION
FL	FLOW LINE	PB	PULLBOX	N'LY	NORTHERLY
TC	TOP OF CURB	G	GAS VALVE	E'LY	EASTERLY
CF	CURB FACE	MH	MANHOLE	S'LY	SOUTHERLY
BCR	BEGINNING OF CURB RETURN	E	ELECTRICAL	E'LY	EASTERLY
ECR	END OF CURB RETURN	T	TELEPHONE	STA.	STATION
LT	LEFT	M	MAILBOX	ELEV	ELEVATION
R/W	RIGHT-OF-WAY	PP	POWER POLE	DWY	DRIVEWAY
BVC	BEGIN VERTICAL CURVE	X-GTR	CROSS GUTTER	GTR	GUTTER
EVC	END VERTICAL CURVE	CB	CATCH BASIN	DI	DRAIN INLET
EC	ELECTRIC CABINET	EM	ELECTRIC METER	EP	ELECTRIC PANEL
EPB	ELECTRIC PULL BOX	FS	FINISH SURFACE	HCR	HANDICAP RAMP
INV	INVERT	NG	NATURAL GROUND	SLPB	STREET LIGHT PULL BOX
TPB	TELCO PULL BOX	TOP	TOP OF STRUCTURE	TYP	TYPICAL
SW	SIDEWALK	ICB	IRRIGATION CONTROL BOX	SL	STREET LIGHT
LD	LOCAL DEPRESSION	UTIL	MISCELLANEOUS UTILITY		

LIST OF STANDARD DRAWINGS

SPPWC STD. PLAN NO. 110-2	CALTRANS STD. PLAN NO. A20A, DETAIL 9	CITY OF UPLAND STD. DWG. NO. W.02
SPPWC STD. PLAN NO. 111-5	CALTRANS STD. PLAN NO. A20A, DETAIL 22	CITY OF UPLAND STD. DWG. NO. W.03
SPPWC STD. PLAN NO. 112-2	CALTRANS STD. PLAN NO. A20B, DETAIL 32	CITY OF UPLAND STD. DWG. NO. W.07
SPPWC STD. PLAN NO. 115-5	CALTRANS STD. PLAN NO. A20D, DETAIL 38	CITY OF UPLAND STD. DWG. NO. W.10
SPPWC STD. PLAN NO. 120-2	CALTRANS STD. PLAN NO. A24A	
SPPWC STD. PLAN NO. 122-2	CALTRANS STD. PLAN NO. A24B	
SPPWC STD. PLAN NO. 150-3	CALTRANS STD. PLAN NO. A24C	
SPPWC STD. PLAN NO. 205-2	CALTRANS STD. PLAN NO. A24D	
SPPWC STD. PLAN NO. 520-4	CALTRANS STD. PLAN NO. A24E	
SPPWC STD. PLAN NO. 523-2	CALTRANS STD. PLAN NO. A24F	



LOCATION MAP
N.T.S.

INDEX OF SHEETS

SHEET 1	TITLE SHEET	SHEET 14-16	ACI SHEETS
SHEET 2	DETAIL SHEET	SHEET 17-19	SEWER IMPROVEMENT SHEETS
SHEET 3-4	DEMO SHEETS	SHEET 20-22	CURB RAMP DETAIL SHEET
SHEET 5-10	STREET IMPROVEMENT SHEETS	SHEET 23	CROSS GUTTER DETAIL SHEET
SHEET 11-13	WATER SHEETS	SHEET 24-26	SIGNING AND STRIPING SHEETS

SURVEY MONUMENT NOTE

THE CONTRACTOR SHALL PRESERVE ALL SURVEY MONUMENTS, CENTERLINE TIES, B.M., CORNER RECORDS, ETC. AND IF THE CONTRACTOR, DURING THE COURSE OF CONSTRUCTION DESTROYS SAID SURVEY MONUMENTS ETC., THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF SETTING SAID MONUMENTS PER THE COUNTY OF SAN BERNARDINO AND CITY OF UPLAND STANDARDS AND ALL COSTS ASSOCIATED WITH THE RE-ESTABLISHMENT OF SAID MONUMENTS SHALL BE PAID BY THE CONTRACTOR.

NOTICE TO CONTRACTOR

APPROVAL OF THIS PLAN BY THE ENGINEER AND CITY ENGINEER DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH.

UTILITY NOTE/PURVEYORS

CONTRACTOR SHALL NOTIFY ALL UTILITY AGENCIES CONCERNED A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

UNDERGROUND SERVICE ALERT (USA)	811		
SEWER:		WATER FACILITIES AUTHORITY:	
NICHOLE DEMOET	1-909-291-2970	JAKE STEPP	1-909-981-9454
FRONTIER:		SOUTHERN CALIFORNIA EDISON:	
MARIO ORLINO	1-909-469-6336	ISSAC DOMINGUEZ	1-714-796-9932
MONTE VISTA WATER COMPANY:		SOUTHERN CALIFORNIA GAS COMPANY:	
JUSTIN SCOTT	1-909-624-0035	DAVID CASTELLANOS	1-909-335-7508
SPECTRUM/CHARTER:		SAN ANTONIO WATER COMPANY:	
CUSTOMER SERVICE	1-888-892-2253	BRIAN LEE	1-909-982-4107

BASIS OF BEARINGS
THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2020.25) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING LEICA SMARTNET NORTH AMERICA REFERENCE NETWORK STATIONS (C.O.R.S.):
S.N.A. CANC:
NORTHING = 1781179.72' EASTING = 6691248.72'
S.N.A. CAGD:
NORTHING = 1869156.61' EASTING = 6614017'

BENCHMARK
ELEVATIONS SHOWN HEREON ARE BASED UPON THE CITY OF UPLAND BENCHMARK 5F-86, ELEVATION 1267.444 FEET (NGVD 29).
DESCRIPTION:
2" CITY OF UPLAND BRASS DISC SET IN PCC BASE FOR TRAFFIC SIGNAL, 34' S/O CL ARROW HW AND 69' E/O CL MOUNTAIN AV

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'D

Plan Prepared By:

[Signature]
5/10/03
Date
KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPPAN, SR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY:

KT
DESIGNED BY:
MA
CHECKED BY:
HG
RECOMMENDED BY:

APPROVED BY:

[Signature]
5-10-23
DATE
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024
RECOMMENDED BY:
RECOMMENDED BY:
CAPITAL IMPROVEMENTS MANAGER DEVELOPMENT SERVICES

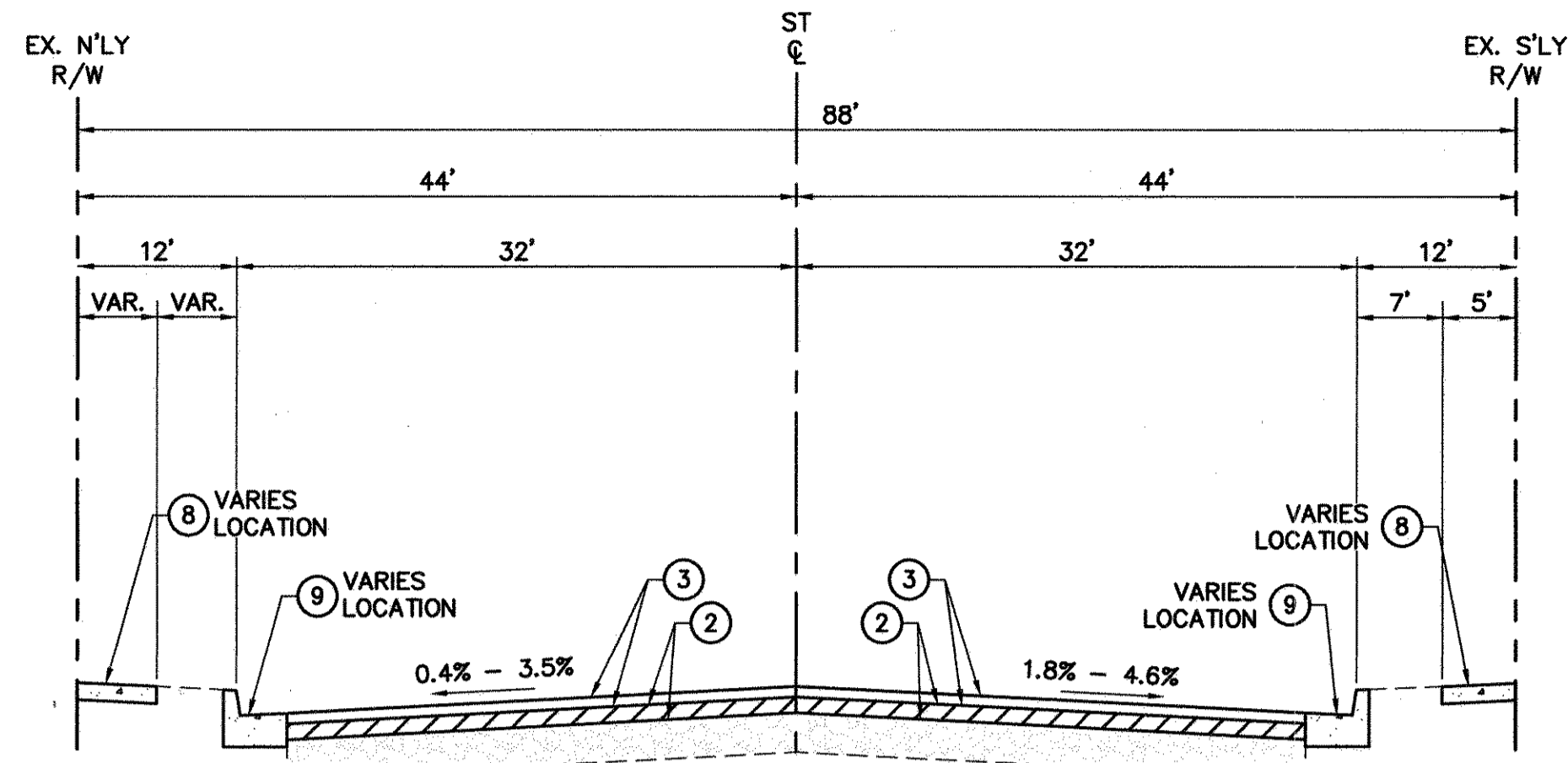
CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT
REHABILITATION AND UTILITY IMPROVEMENTS
TITLE SHEET, LOCATION MAP, NOTES AND LEGENDS

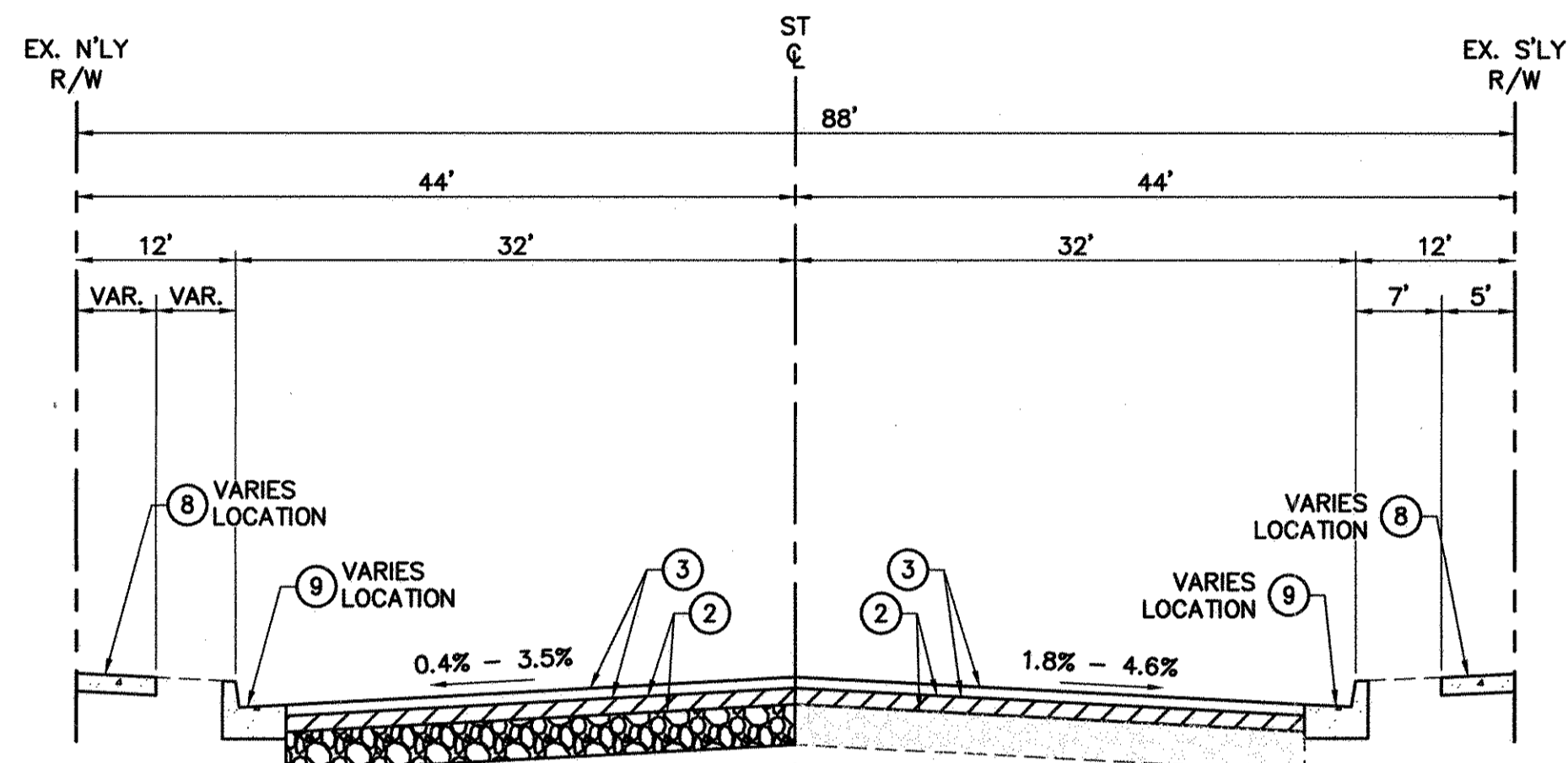
SHEET
1
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

811
Know what's below.
Call 811 before you dig.
Underground Service Alert of Southern California
Section 4216/4216.9 of the Government Code requires a DIG ALERT Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number Call Underground Service Alert 811 two working days before you dig

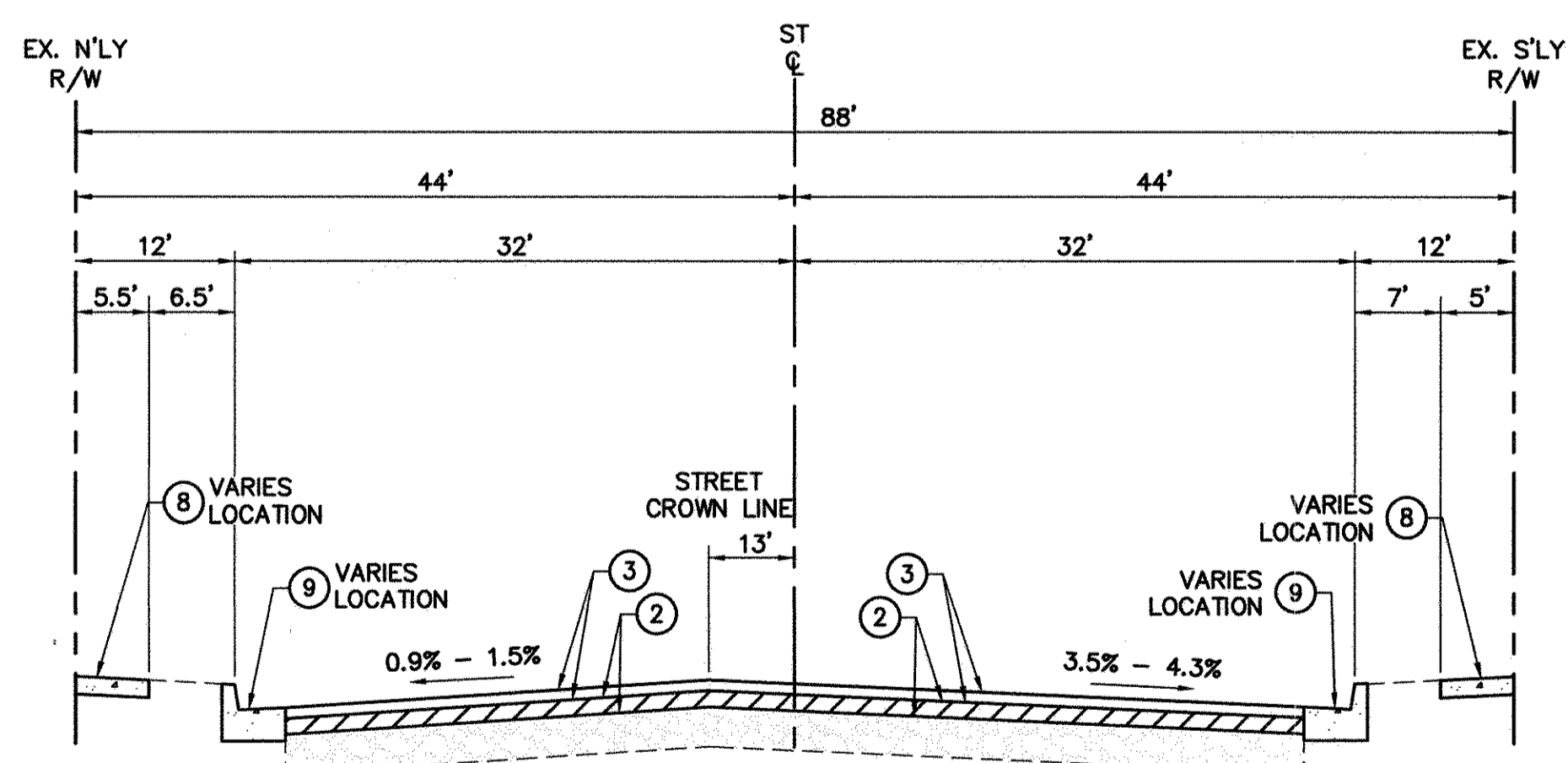
PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



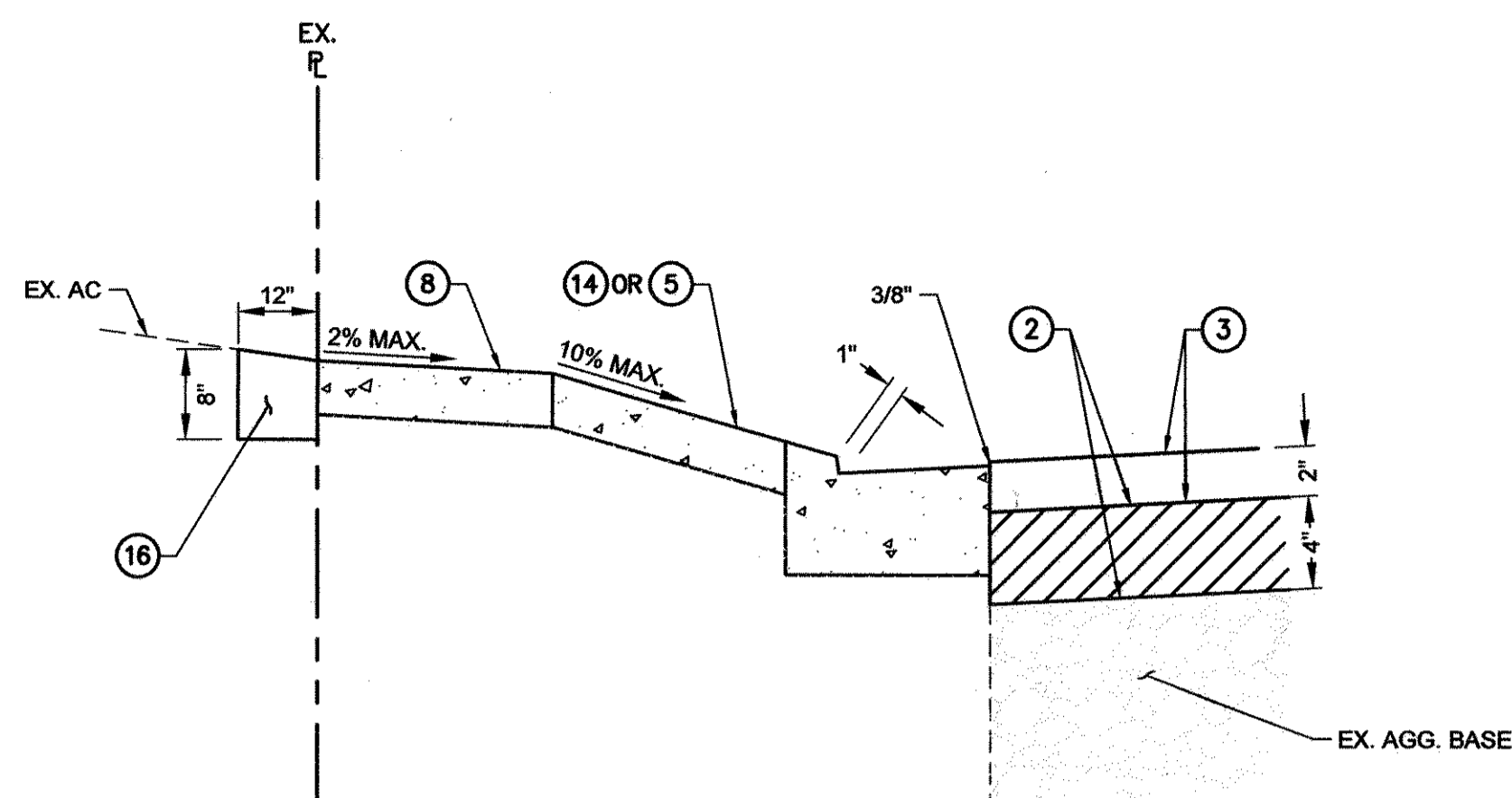
STA 100+30 TO STA 138+08
TYPICAL SECTION
N.T.S.



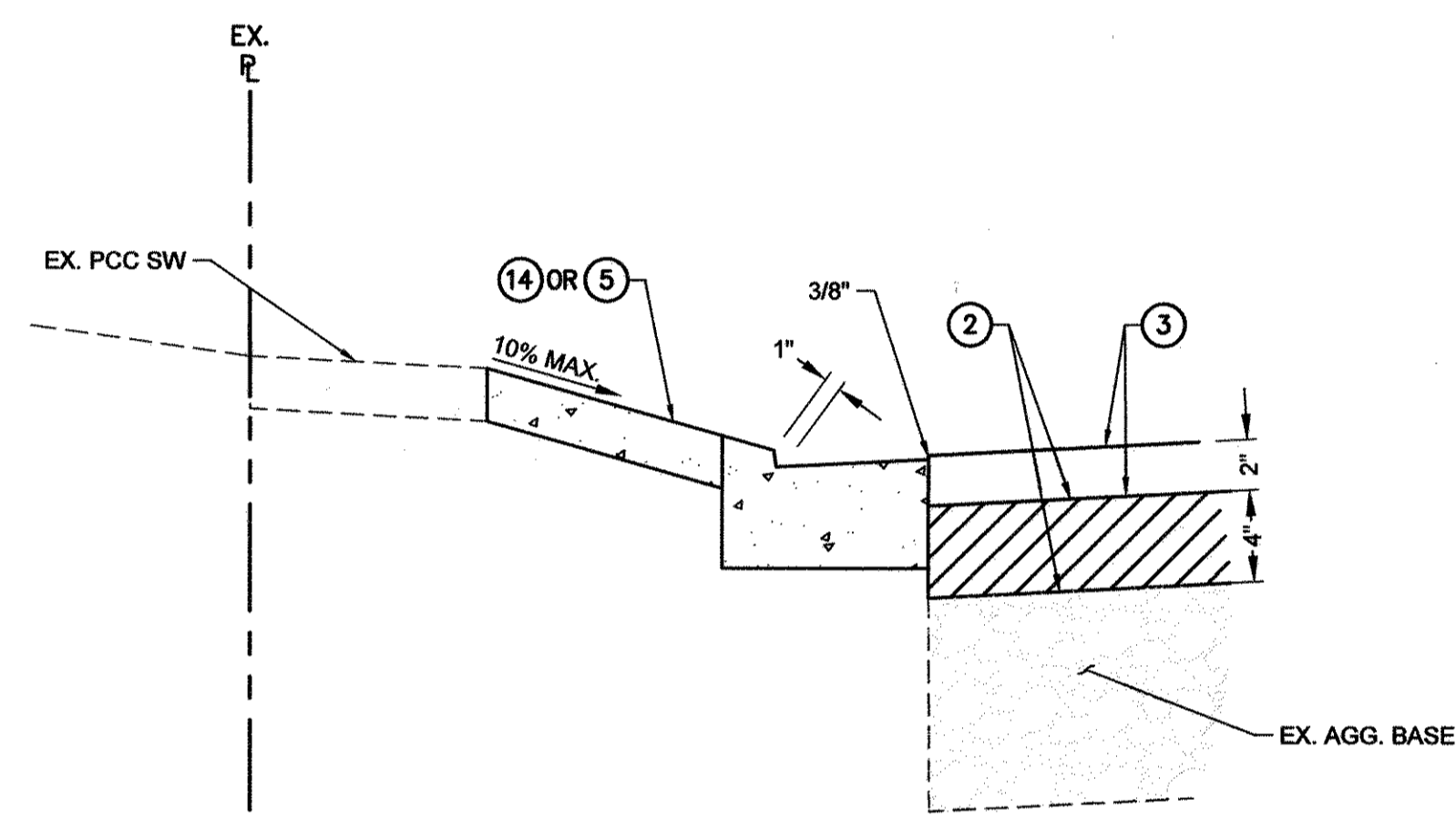
STA 138+08 TO STA 146+26.55
TYPICAL SECTION
N.T.S.



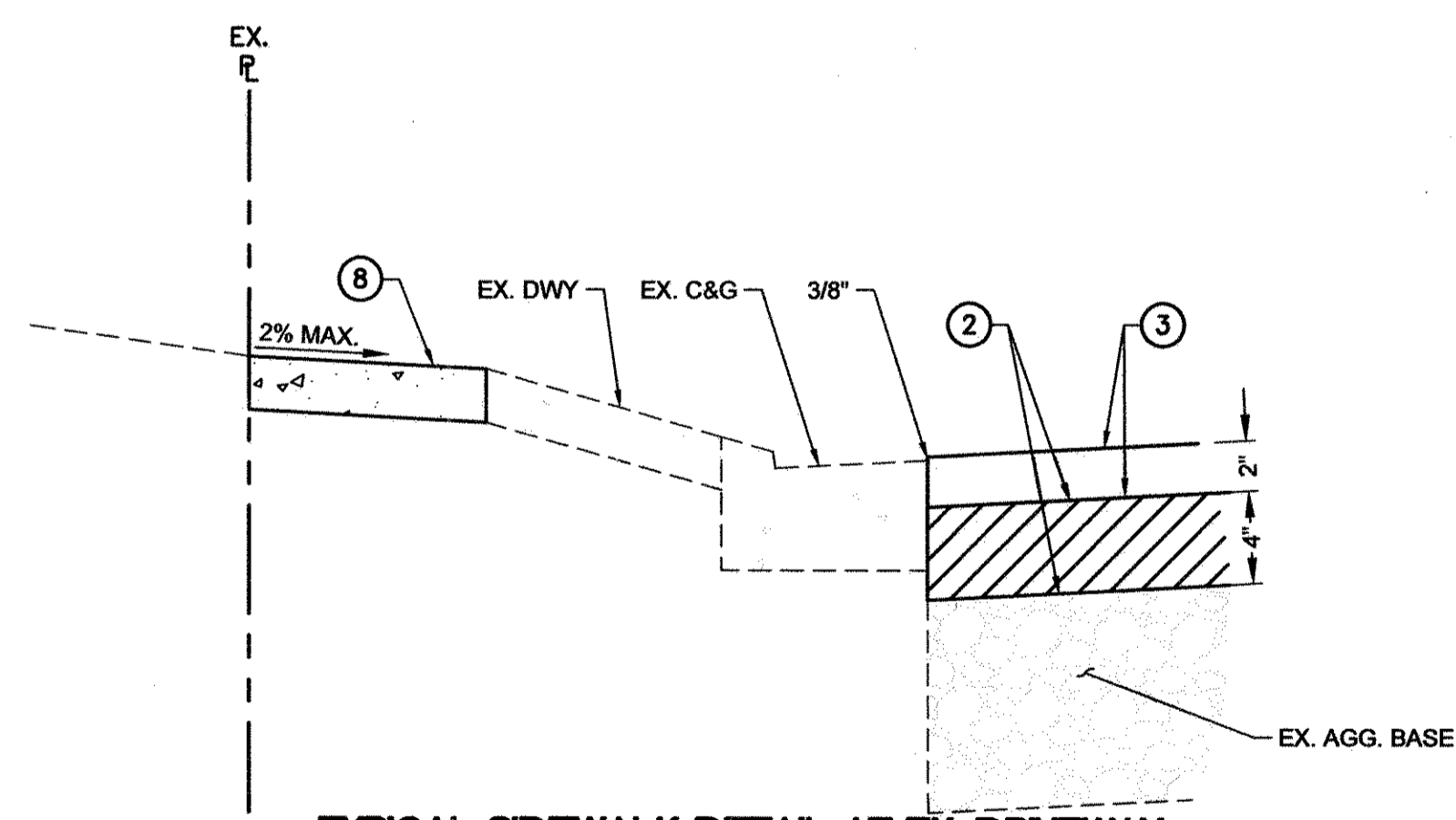
STA 146+26.55 TO STA 160+20
TYPICAL SECTION
N.T.S.



TYPICAL DRIVEWAY DETAIL WITH SIDEWALK
N.T.S.



TYPICAL DRIVEWAY DETAIL WITH EX. SIDEWALK
N.T.S.



TYPICAL SIDEWALK DETAIL AT EX. DRIVEWAY
APPROACH
N.T.S.

CONSTRUCTION NOTES

- 1-CONSTRUCT 6-INCH THICK CAB OVER 95% COMPACTED NATIVE.
 - 2-CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
 - 3-CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
 - 4-CONSTRUCT MODIFIED LOCAL DEPRESSION AT EXISTING CATCH BASIN PER SPPWC STD. PLAN NO. 313-3, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - 5-CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - 6-CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC GUTTER PER SPPWC STD. PLAN NO. 111-5, TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
 - 7-INSTALL YELLOW SURFACE MOUNTED TRUNCATED DOME MAT PER SPPWC STD. PLAN NO. 115-5.
 - 8-CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
 - 9-CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
 - 10-REMOVE AND RECONSTRUCT PCC CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - 11-CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.
 - 12-CONSTRUCT CURB DRAIN PER SPPWC STD. PLAN NO. 150-3.
 - 13-CONSTRUCT PARKWAY DRAIN PER SPPWC STD. PLAN NO. 151-2. DRAIN OPENING(S) PER PLAN.
 - 14-CONSTRUCT COMMERCIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 6". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - 15-INSTALL NEW MAIL BOX AND POST PER SAN BERNARDINO COUNTY STD. PLAN NO. 312.
 - 16-CONSTRUCT AC SLOT PATCH 8-INCH THICK AT THE BACK OF PROPOSED DRIVEWAY.
- P-PROTECT
R-REMOVE
RL-RELOCATE
A-ADJUST TO GRADE
AB-ABANDON

WATER CONSTRUCTION NOTES

- 1-INSTALL NEW TYPE "K" COPPER SERVICE LATERALS (SIZE PER PLAN) AND METER BOX PER CITY OF UPLAND STD. DWG. NO. W.02 AND W.03. CONNECT TO EXISTING CUSTOMER SERVICE LATERAL. REUSE EXISTING WATER METER AND/OR NEW WATER METER SUPPLIED BY THE CITY. INSTALL NEW METER BOX TO BE PROVIDED BY THE CITY WATER DIVISION. CORPORATION STOP SHALL BE 300 PSI RATED. CUT AND CAP EXISTING LATERAL 3' BELOW METER BOX.
- 2-CONNECT NEW 8-INCH WATER MAIN TO EXISTING 12-INCH WATER MAIN PER CITY OF UPLAND STD. DWG. NO. W.10.
- 3-CONNECT NEW LATERALS TO EXISTING 12-INCH LATERALS. SIZE PER PLAN.
- 4-FURNISH AND INSTALL CML&C STEEL LATERAL AND FITTINGS. SIZE PER PLAN.
- 5-FURNISH AND INSTALL FLANGED GATE VALVE, SIZE PER PLAN. ADJUST TO GRADE PER CITY OF UPLAND STD. DWG. W.07.
- 6-ABANDON EXISTING 6-INCH WATER MAIN IN PLACE PER CITY OF UPLAND STD. DWG. W.10. IF UNABLE TO ACHIEVE A COMPLETE WATER SHUT DOWN, WELD AND BLIND FLANGE NEED TO BE INSTALLED.
- 7-CUT AND REMOVE PORTION OF ABANDONED 6-INCH PIPE AND PLUG EACH END WITH CEMENT MORTAR 12-INCH MINIMUM LENGTH.
- 8-INSTALL CML&C STEEL TEE MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. DWG. W.24.
- 9-INSTALL CML&C STEEL BEND MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. DWG. W.24.
- 10-FURNISH AND INSTALL 6-INCH FIRE HYDRANT ASSEMBLY PER CITY WATER STD. PLAN NO. W.05.

LEGEND

- 2-INCH ASPHALT RUBBER HOT MIX (ARHM)
- 4-INCH THICK AC BASE COURSE (PG 64-10-B)
- 6-INCH CRUSHED AGGREGATE BASE (CAB)

811
Know what's below.
Call 811 before you dig.

DIGALERT
Underground Service Alert of Southern California

Section 42164216.9 of the Government Code requires a DIG ALERT Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number Call Underground Service Alert 811 two working days before you dig.

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

Plan Prepared By:

KOA

3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

Date: 5/10/03

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPHAN, JR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT

DESIGNED BY: AA

CHECKED BY: HG

RECOMMENDED BY:

APPROVED BY:

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

5-10-23 DATE

RECOMMENDED BY:

CAPITAL IMPROVEMENTS MANAGER

DEVELOPMENT SERVICES

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

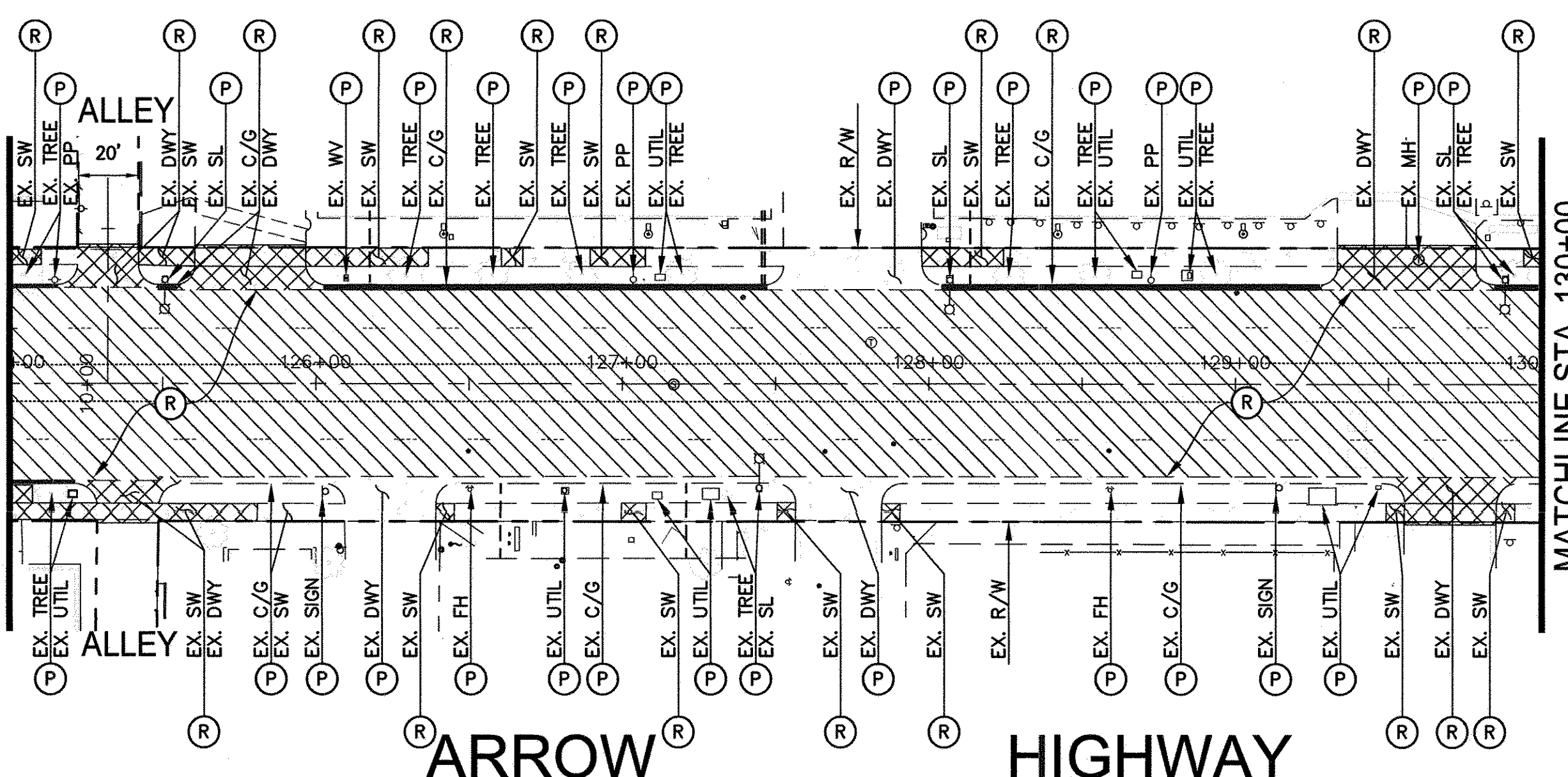
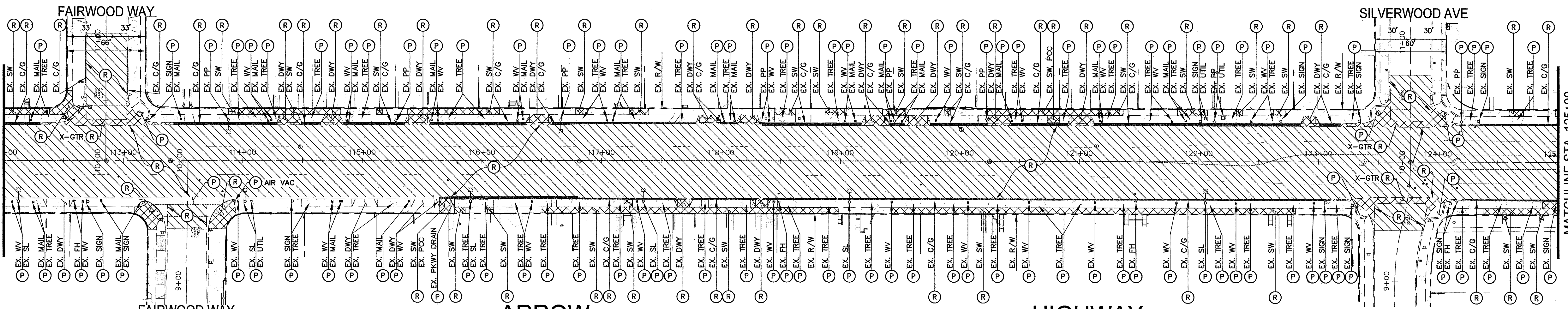
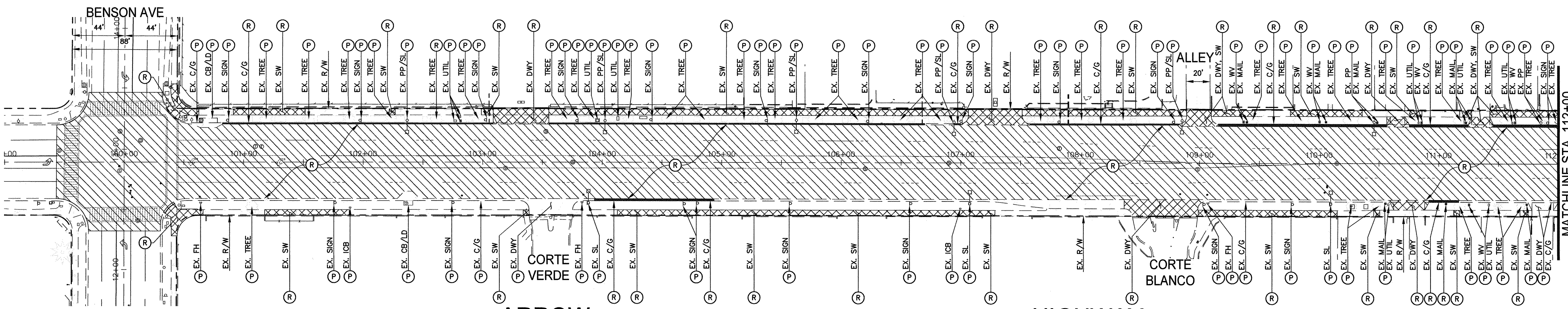
TYPICAL SECTION AND DETAILS

SHEET 2

OF 26 SHEETS

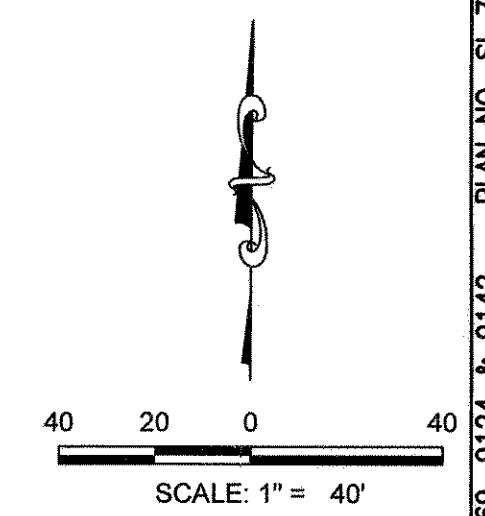
DRAWING NO. 7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



LEGEND

- (P) - PROTECT
- (R) - REMOVE
- REMOVE AND HAUL 6" EXISTING AC PAVEMENT/AC BASE
- REMOVE EXISTING PCC SIDEWALK/CURB RAMPS/X-GUTTER/DWY
- REMOVE EXISTING PCC CURB AND GUTTER



REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]* 5/16/23
Date

KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]* 5.10.23
DATE

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

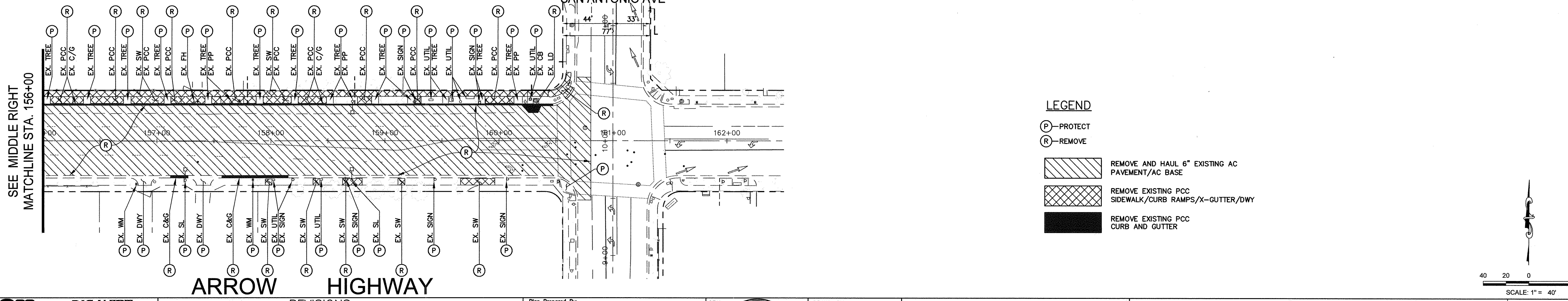
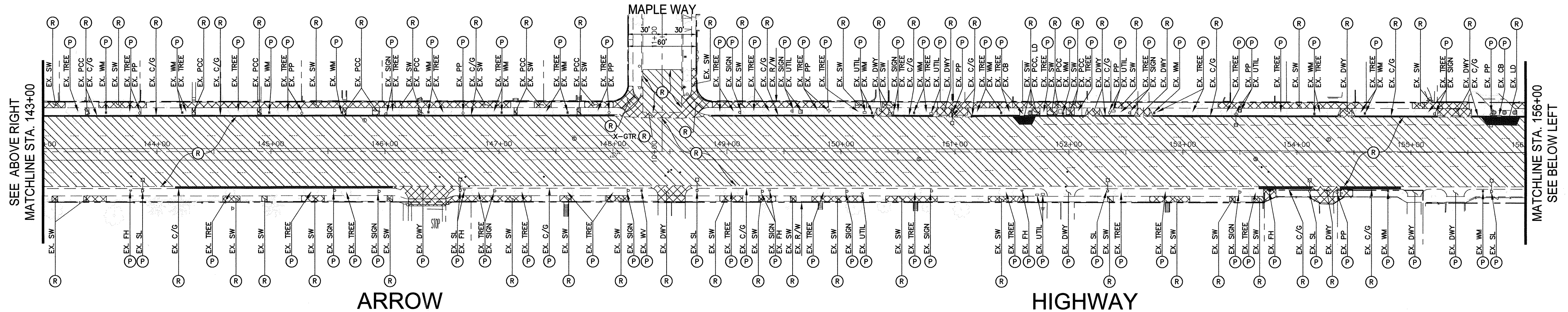
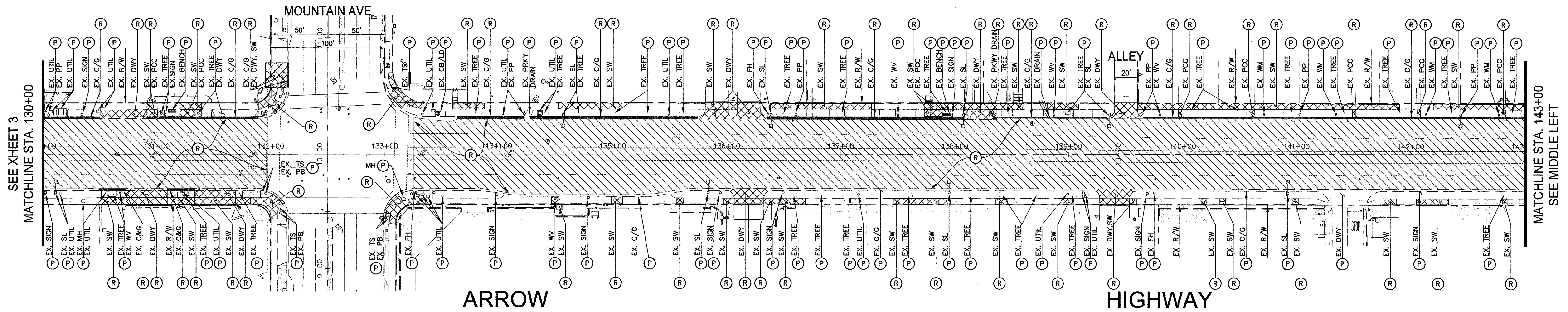
RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

CITY OF UPLAND
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS DEMOLITION PLANS
STA 100+00 TO STA 130+00

SHEET 3
OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142

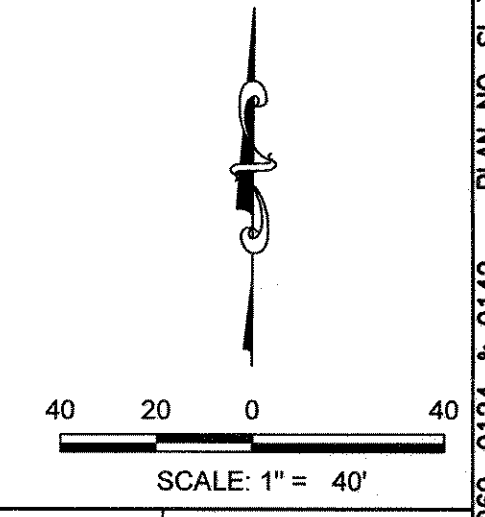
811 DIGALERT
Know what's below. Call 811 before you dig.
Underground Service Alert of Southern California
Section 4216421a-9 of the Government Code requires a DIG ALERT Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number, Call Underground Service Alert 811 two working days before you dig.

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



LEGEND

- P - PROTECT
- R - REMOVE
- REMOVE AND HAUL 6" EXISTING AC PAVEMENT/AC BASE
- REMOVE EXISTING PCC SIDEWALK/CURB RAMPS/X-GUTTER/DWY
- REMOVE EXISTING PCC CURB AND GUTTER



SEE SHEET 3
MATCHLINE STA. 130+00

MATCHLINE STA. 143+00
SEE MIDDLE LEFT

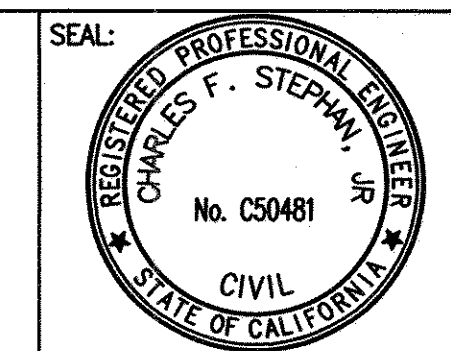
SEE ABOVE RIGHT
MATCHLINE STA. 143+00

MATCHLINE STA. 156+00
SEE BELOW LEFT

SEE MIDDLE RIGHT
MATCHLINE STA. 156+00

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE

Plan Prepared By: *[Signature]*
 8/10/23
 Date



DRAWN BY: KT
 DESIGNED BY: MA
 CHECKED BY: HG
 RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]*
 DIRECTOR OF PUBLIC WORKS
 R.C.E. 056306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT
 REHABILITATION AND UTILITY IMPROVEMENTS
 DEMOLITION PLANS
 STA 130+00 TO STA 162+00

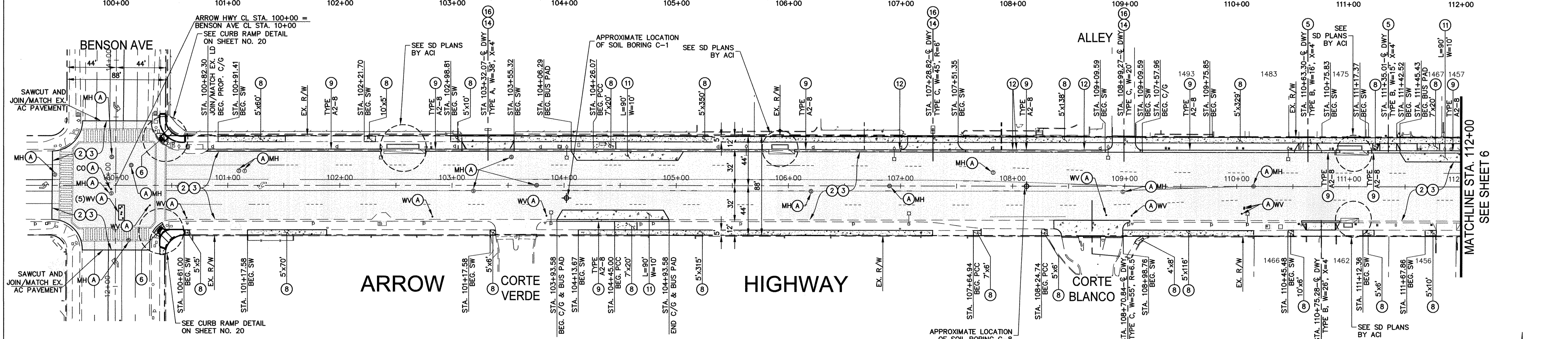
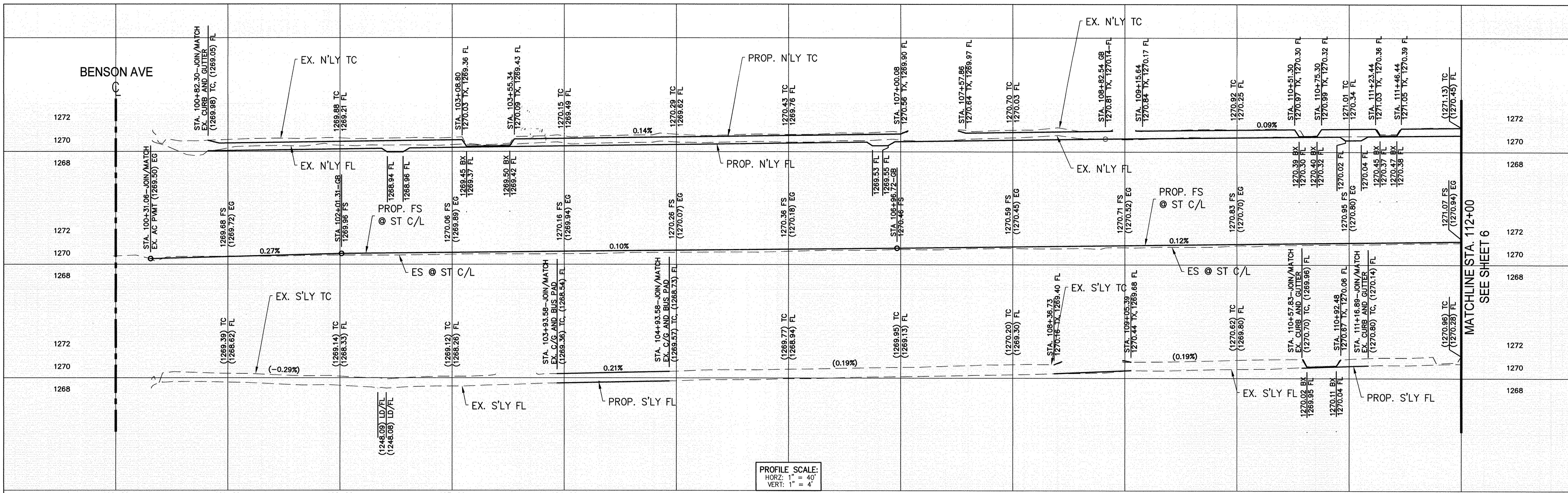
SHEET
4
 OF 26 SHEETS
 DRAWING NO.
 -7069, 9124, & 9142

Know what's Below. Call 811 before you dig. Underground Service Alert of Southern California

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3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



- CONSTRUCTION NOTES**
- (2) - CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
 - (3) - CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
 - (5) - CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2 THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - (6) - CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC GUTTER PER SPPWC STD. PLAN NO. 111-5, TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
 - (8) - CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
 - (9) - CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
 - (11) - CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.
 - (12) - CONSTRUCT CURB DRAIN PER SPPWC STD. PLAN NO. 150-3.
 - (14) - CONSTRUCT COMMERCIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 6". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - (16) - CONSTRUCT AC SLOT PATCH 8-INCH THICK AT THE BACK OF PROPOSED DRIVEWAY.

LEGEND

- 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
- PROPOSED PCC
- (A) - ADJUST TO GRADE

LOG OF BORING:
 C-1: 4" AC OVER 12" CAB
 C-8: 5" AC OVER 11" CAB

811 DIGALERT
 Know what's below. Call 811 before you dig.
 Underground Service Alert of Southern California

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By:
 K&A
 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:

DRAWN BY: KT
 DESIGNED BY: AA
 CHECKED BY: HG
 RECOMMENDED BY:
 CAPITAL IMPROVEMENTS MANAGER

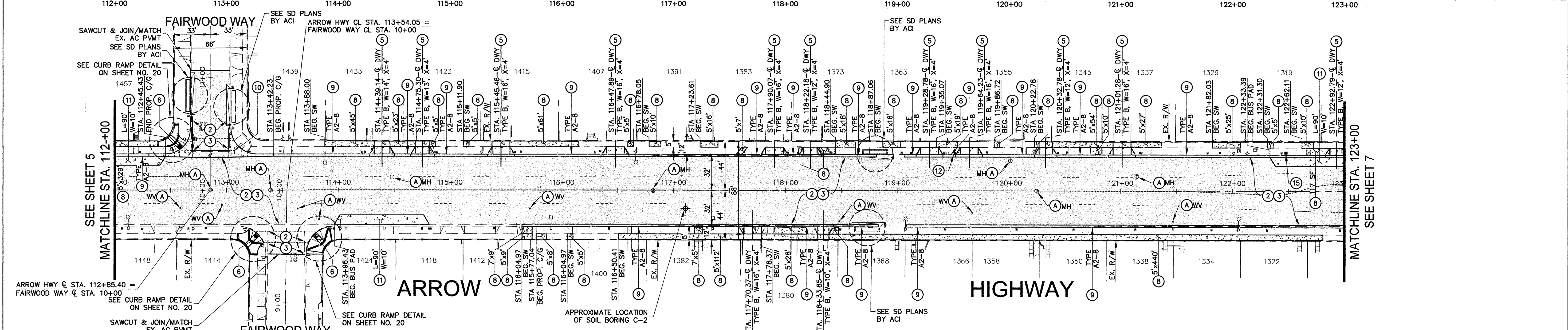
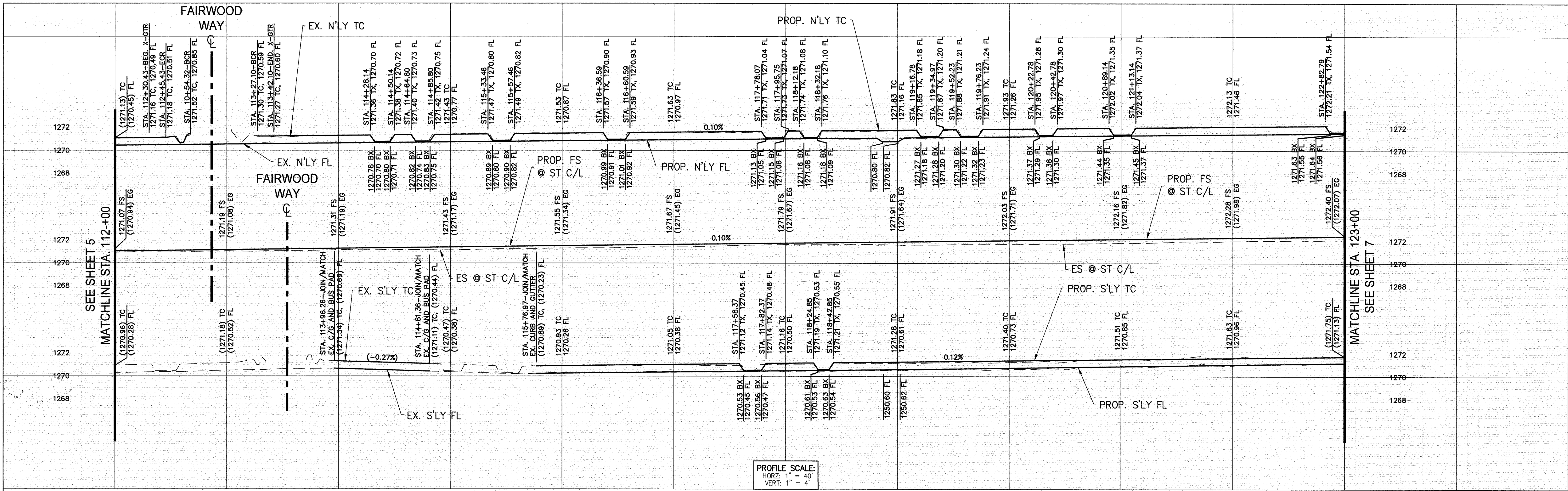
APPROVED BY:
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY:
 DEVELOPMENT SERVICES

CITY OF UPLAND
 PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
 STREET IMPROVEMENT PLANS
 STA 100+00 TO STA 112+00

SHEET 5 OF 26 SHEETS
 DRAWING NO. -7069, 9124, & 9142

PLAN NO. SI-7069, 9124 & 9142 PROJECT NO. 7069, 9124 & 9142

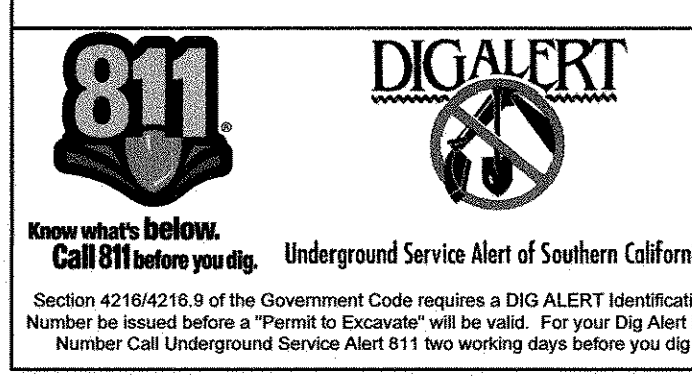


- CONSTRUCTION NOTES**
- ② CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
 - ③ CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
 - ⑤ CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - ⑥ CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC GUTTER PER SPPWC STD. PLAN NO. 111-5, TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
 - ⑧ CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
 - ⑨ CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
 - ⑩ REMOVE AND RECONSTRUCT PCC CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - ⑪ CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.
 - ⑮ INSTALL NEW MAIL BOX AND POST PER SAN BERNARDINO COUNTY STD. PLAN NO. 3

LEGEND

- 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
- PROPOSED PCC
- ADJUST TO GRADE

LOG OF BORING:
C-2: 4.5' AC OVER 14" CAB



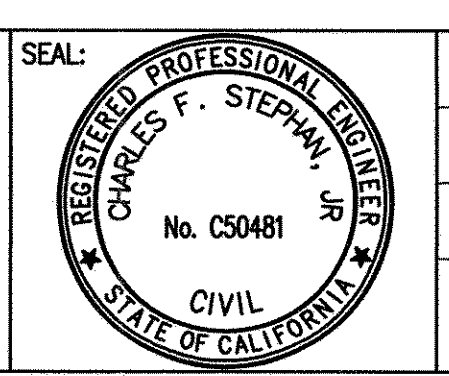
REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By:

5/10/03
date

3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 920-9600 Fax: (909) 890-9604



DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY:

APPROVED BY:

5-10-23
DATE

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

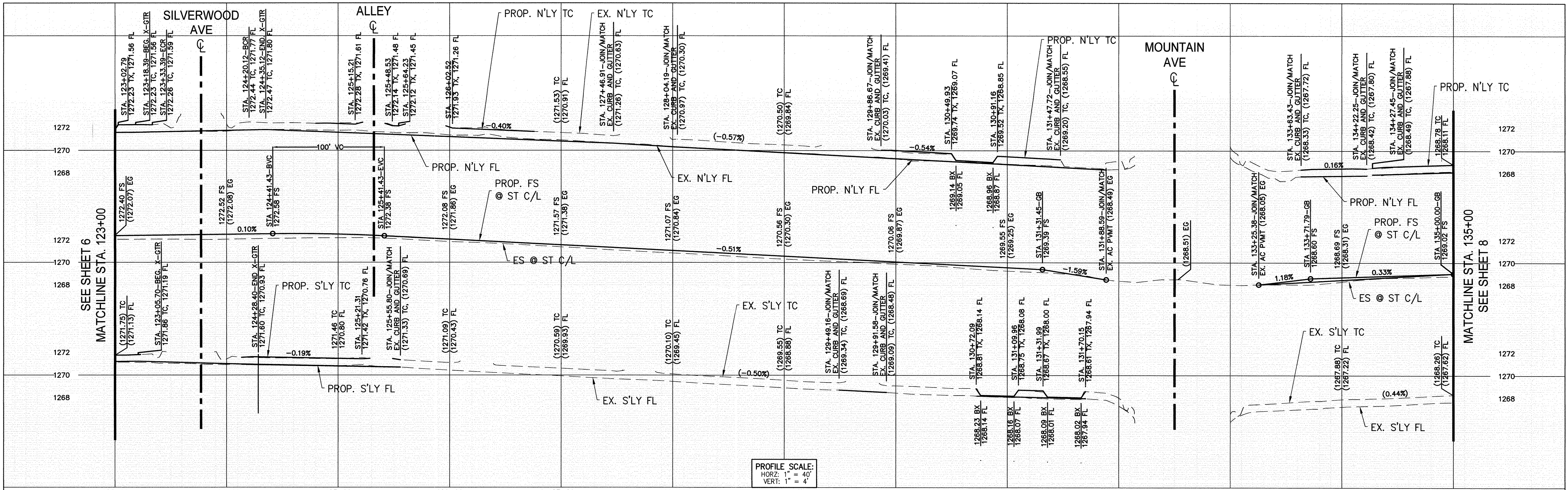
RECOMMENDED BY: CAPITAL IMPROVEMENTS MANAGER
RECOMMENDED BY: DEVELOPMENT SERVICES

CITY OF UPLAND

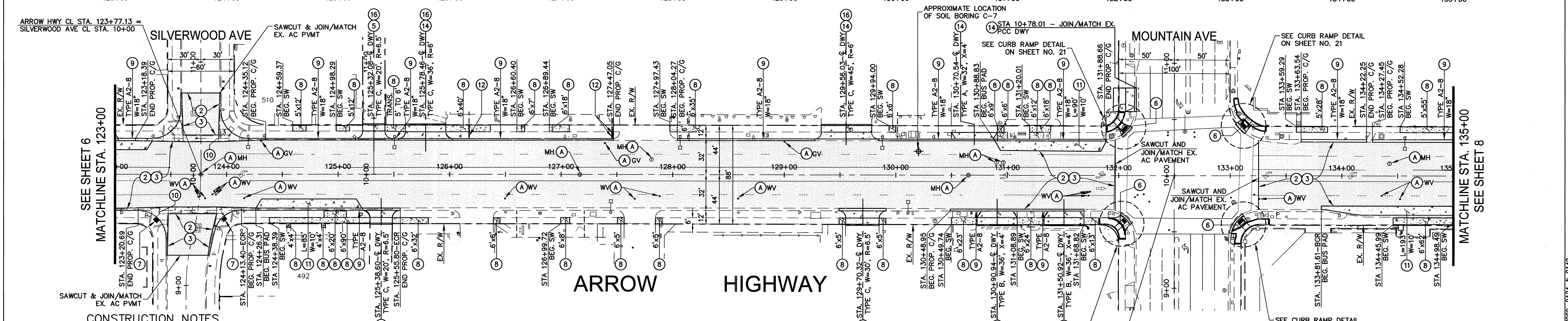
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS STREET IMPROVEMENT PLANS STA 112+00 TO STA 123+00

SHEET 6 OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142

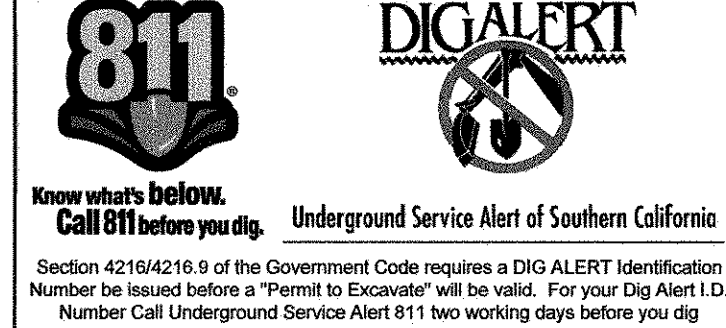


PROFILE SCALE:
 HORIZ: 1" = 40'
 VERT: 1" = 4'



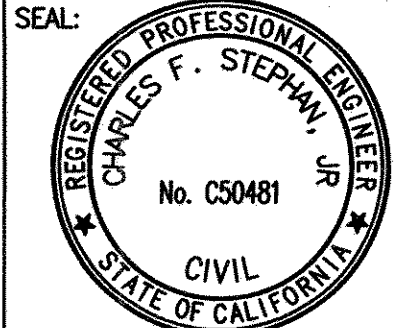
- CONSTRUCTION NOTES**
- ②—CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
 - ③—CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
 - ⑤—CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - ⑥—CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC CURB PER SPPWC STD. PLAN NO. 111-5. TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
 - ⑦—INSTALL YELLOW SURFACE MOUNTED TRUNCATED DOME MAT PER SPPWC STD. PLAN NO. 115-5.
 - ⑧—CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
 - ⑨—CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
 - ⑩—REMOVE AND RECONSTRUCT PCC CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - ⑪—CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.
 - ⑫—CONSTRUCT CURB DRAIN PER SPPWC STD. PLAN NO. 150-3.
 - ⑭—CONSTRUCT COMMERCIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 6". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - ⑮—CONSTRUCT AC SLOT PATCH 8-INCH THICK AT THE BACK OF PROPOSED DRIVEWAY.

- LEGEND**
- 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
 - PROPOSED PCC
 - ADJUST TO GRADE



REVISIONS			
MARK	DATE	INITIAL	DESCRIPTION

Plan Prepared By: *[Signature]*
 Date: 5/10/03



DRAWN BY: KT
 DESIGNED BY: AA
 CHECKED BY: HG
 RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER

APPROVED BY: *[Signature]*
 DATE: 5.10.23
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
 DEVELOPMENT SERVICES

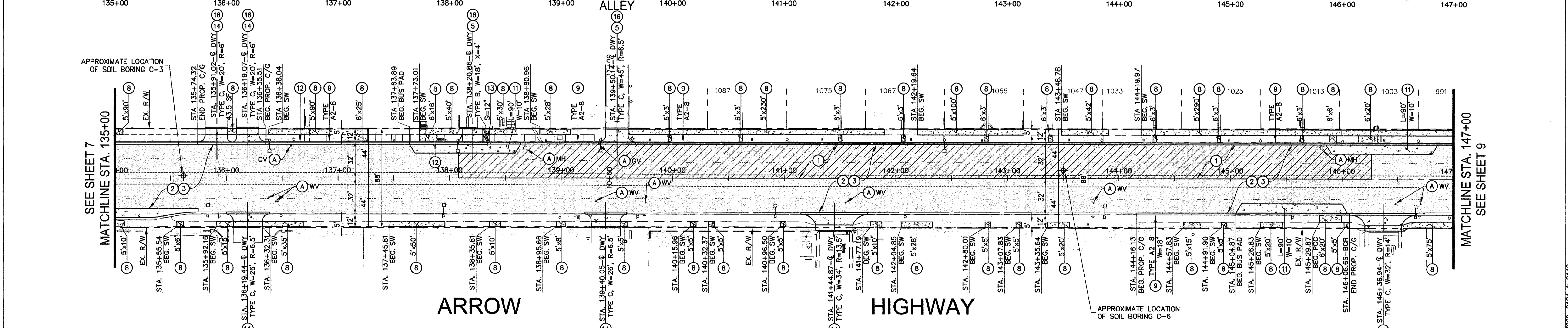
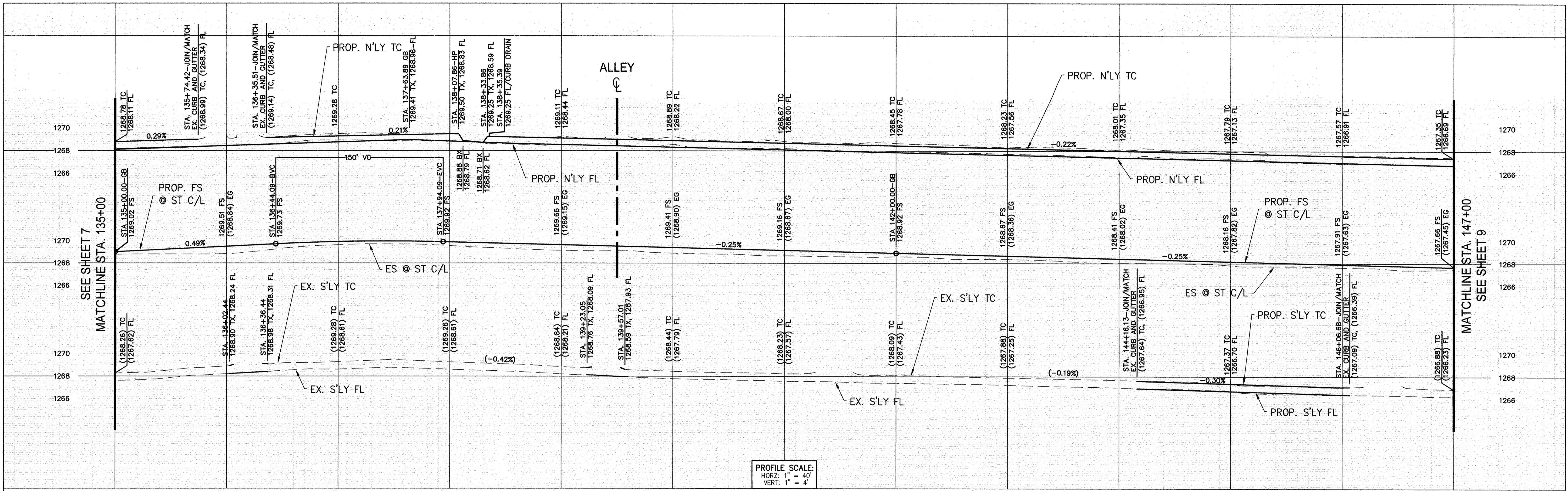
CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

STREET IMPROVEMENT PLANS
 STA 123+00 TO STA 135+00

SHEET
7
 OF 26 SHEETS
 DRAWING NO.
 -7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



CONSTRUCTION NOTES

- ① CONSTRUCT 6-INCH THICK CAB OVER 95% COMPACTED NATIVE.
- ② CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
- ③ CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
- ⑤ CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
- ⑧ CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
- ⑨ CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
- ⑪ CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.
- ⑫ CONSTRUCT CURB DRAIN PER SPPWC STD. PLAN NO. 150-3.
- ⑬ CONSTRUCT PARKWAY DRAIN PER SPPWC STD. PLAN NO. 151-2. DRAIN OPENING(S) PER PLAN.
- ⑭ CONSTRUCT COMMERCIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 6". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
- ⑯ CONSTRUCT AC SLOT PATCH 8-INCH THICK AT THE BACK OF PROPOSED DRIVEWAY.

LEGEND

- 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
- 6-INCH CRUSHED AGGREGATE BASE (CAB)
- PROPOSED PCC
- (A) - ADJUST TO GRADE

LOG OF BORING:
C-3: 5.5' AC OVER 14" CAB
C-6: 3" AC

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]* 5/10/03 Date

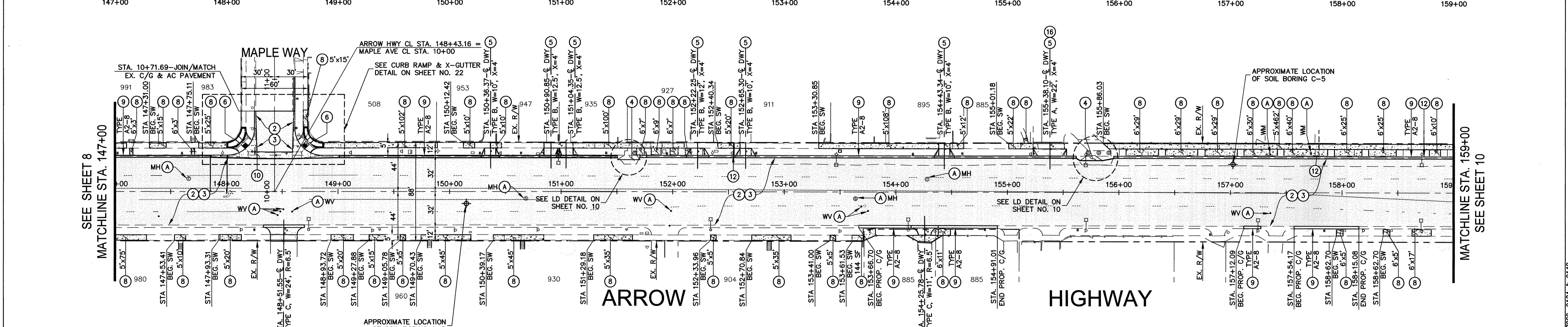
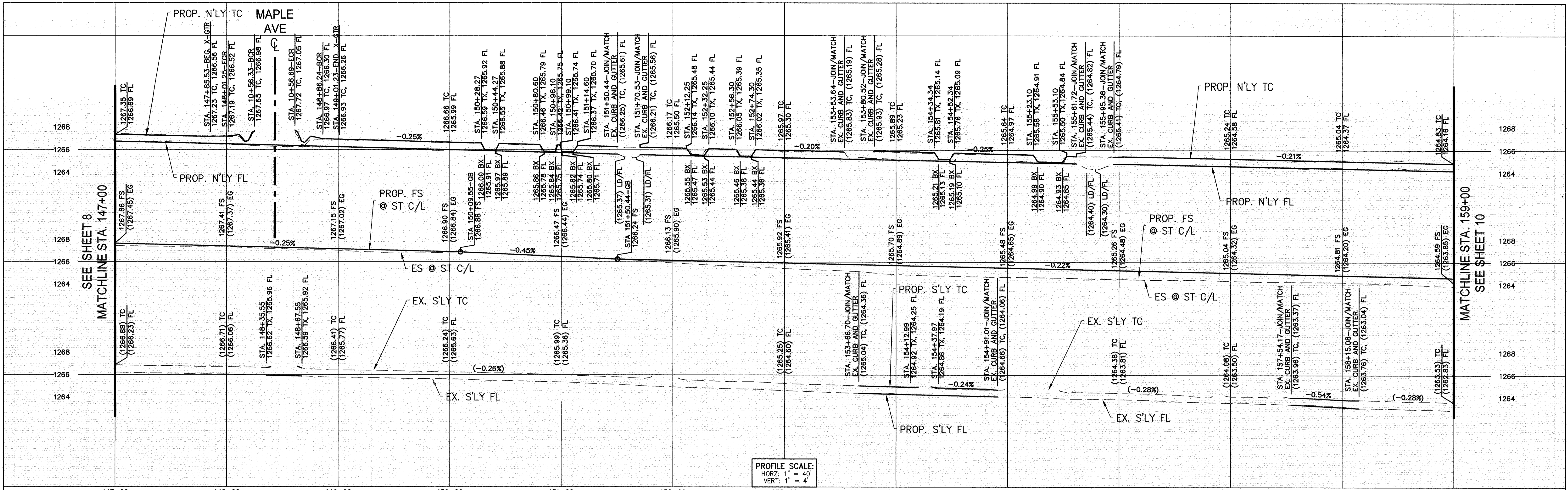
SEAL: REGISTERED PROFESSIONAL ENGINEER CHARLES F. STEPHAN No. C50481 CIVIL STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: MA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]* 5/10/03 DATE
DIRECTOR OF PUBLIC WORKS R.C.E. C56306 EXP. DATE 12-31-2024
RECOMMENDED BY: *[Signature]* CAPITAL IMPROVEMENTS MANAGER
RECOMMENDED BY: *[Signature]* DEVELOPMENT SERVICES

CITY OF UPLAND
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
STREET IMPROVEMENT PLANS
STA 135+00 TO STA 147+00

SHEET 8 OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142



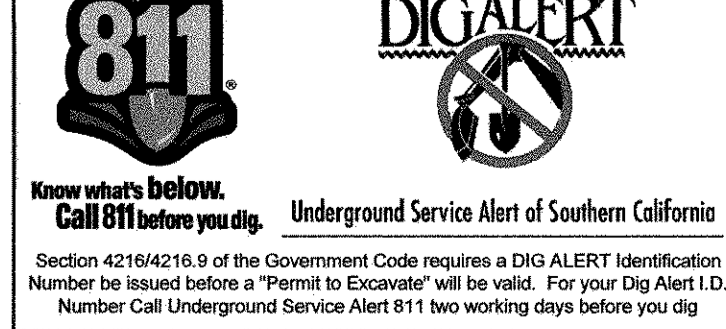
- CONSTRUCTION NOTES**
- ② CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
 - ③ CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
 - ④ CONSTRUCT MODIFIED LOCAL DEPRESSION AT EXISTING CATCH BASIN PER SPPWC STD. PLAN NO. 313-3, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - ⑤ CONSTRUCT RESIDENTIAL DRIVEWAY APPROACHES PER SPPWC STD. PLAN NO. 110-2. THICKNESS = 4". TYPE, WIDTH(W), AND WING(X) OR RADIUS(R) PER PLAN.
 - ⑥ CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
 - ⑧ CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
 - ⑨ CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
 - ⑩ REMOVE AND RECONSTRUCT PCC CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
 - ⑫ CONSTRUCT CURB DRAIN PER SPPWC STD. PLAN NO. 150-3.
 - ⑬ CONSTRUCT AC SLOT PATCH 8-INCH THICK AT THE BACK OF PROPOSED DRIVEWAY.

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

LOG OF BORING:
 C-4: 5.5" AC OVER 16" CAB
 C-5: 4" AC OVER 12" CAB

- LEGEND**
- ② 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
 - ⑧ PROPOSED PCC
 - Ⓐ ADJUST TO GRADE



REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By: *Stalos*
 Date: *5/10/23*

KOA
 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694



DRAWN BY: KT
DESIGNED BY: MA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]* 5.10.23
 DATE: 5.10.23
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER

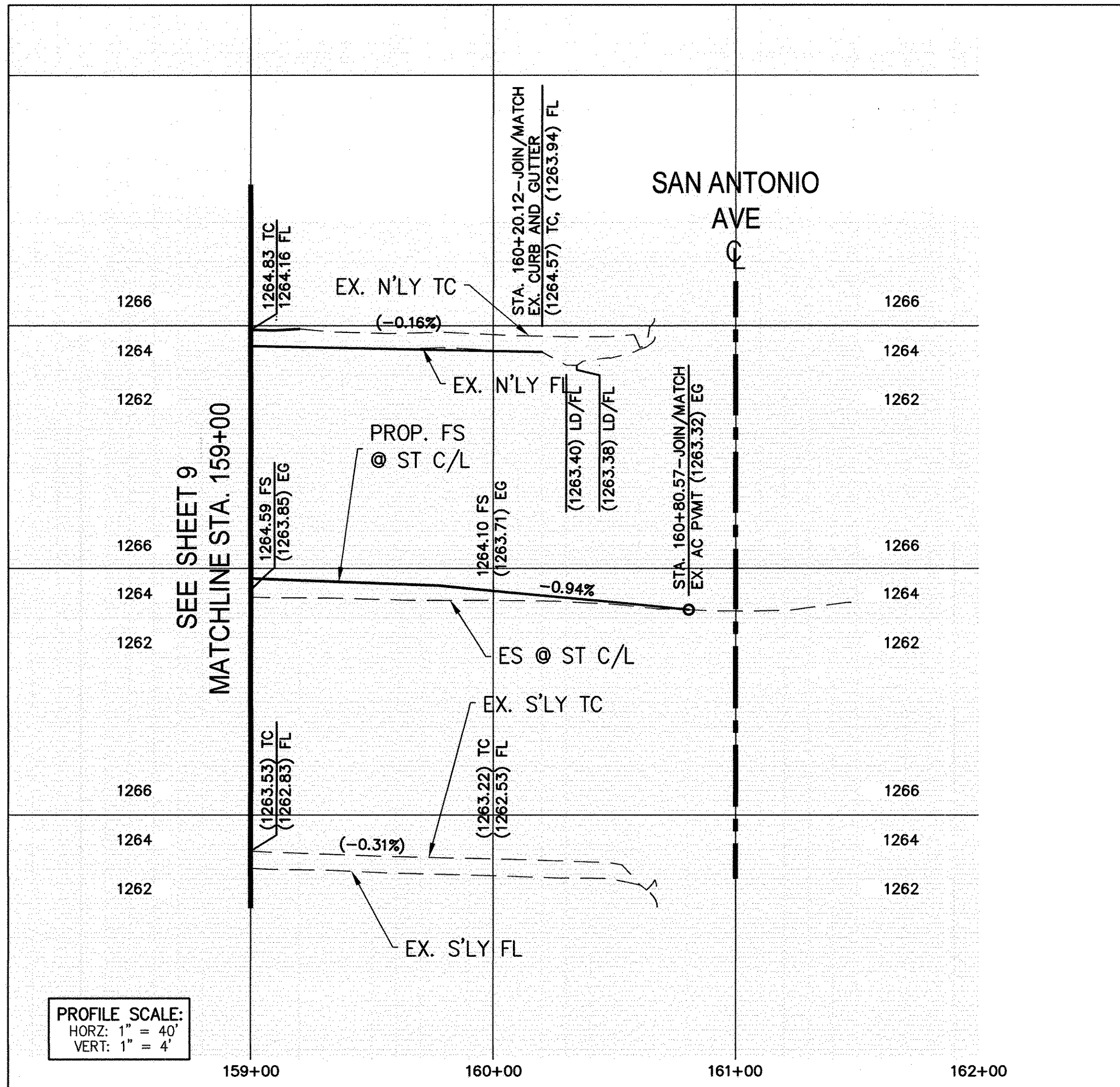
RECOMMENDED BY: *[Signature]*
 DEVELOPMENT SERVICES

CITY OF UPLAND

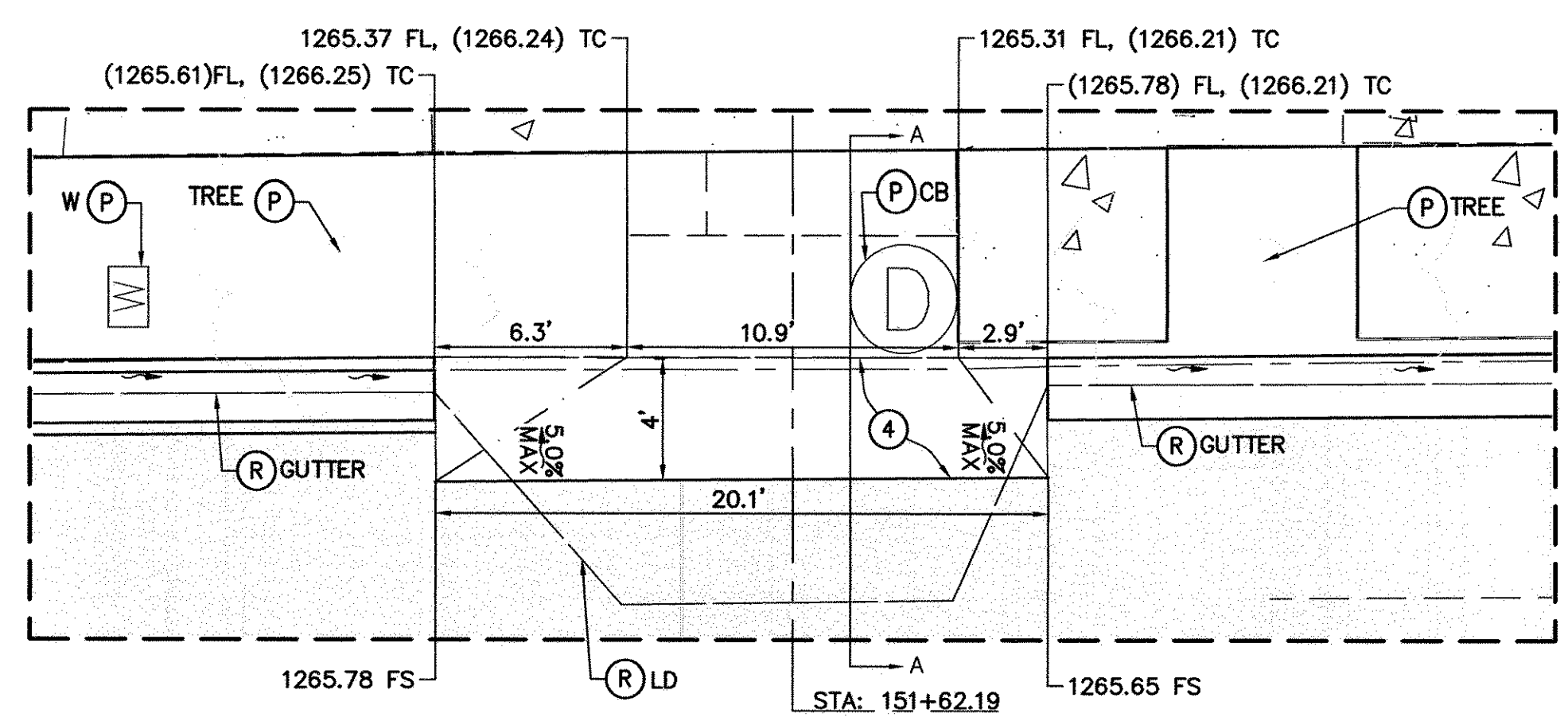
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
 STREET IMPROVEMENT PLANS
 STA 147+00 TO STA 159+00

SHEET 9
 OF 26 SHEETS
 DRAWING NO. -7069, 9124, & 9142

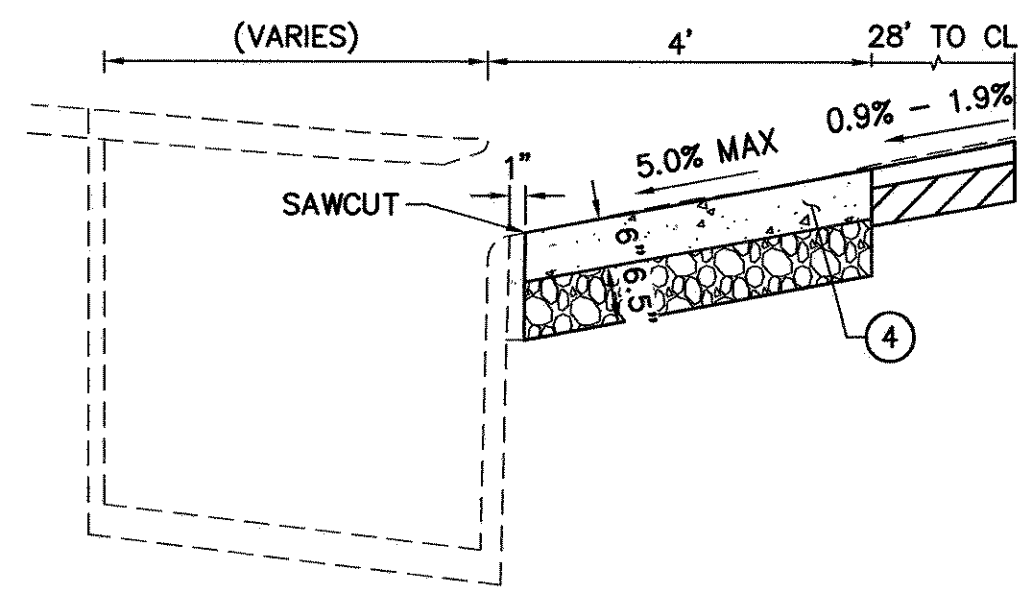
PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



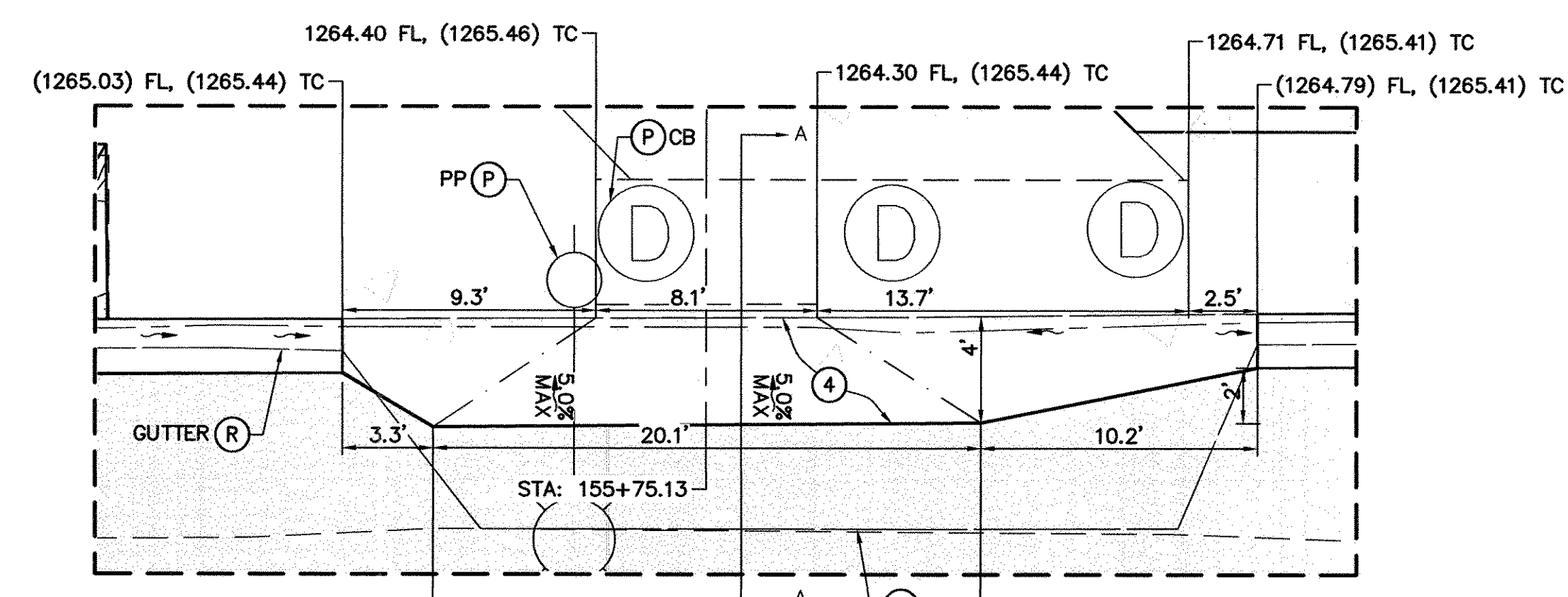
PROFILE SCALE:
 HORZ: 1" = 40'
 VERT: 1" = 4'



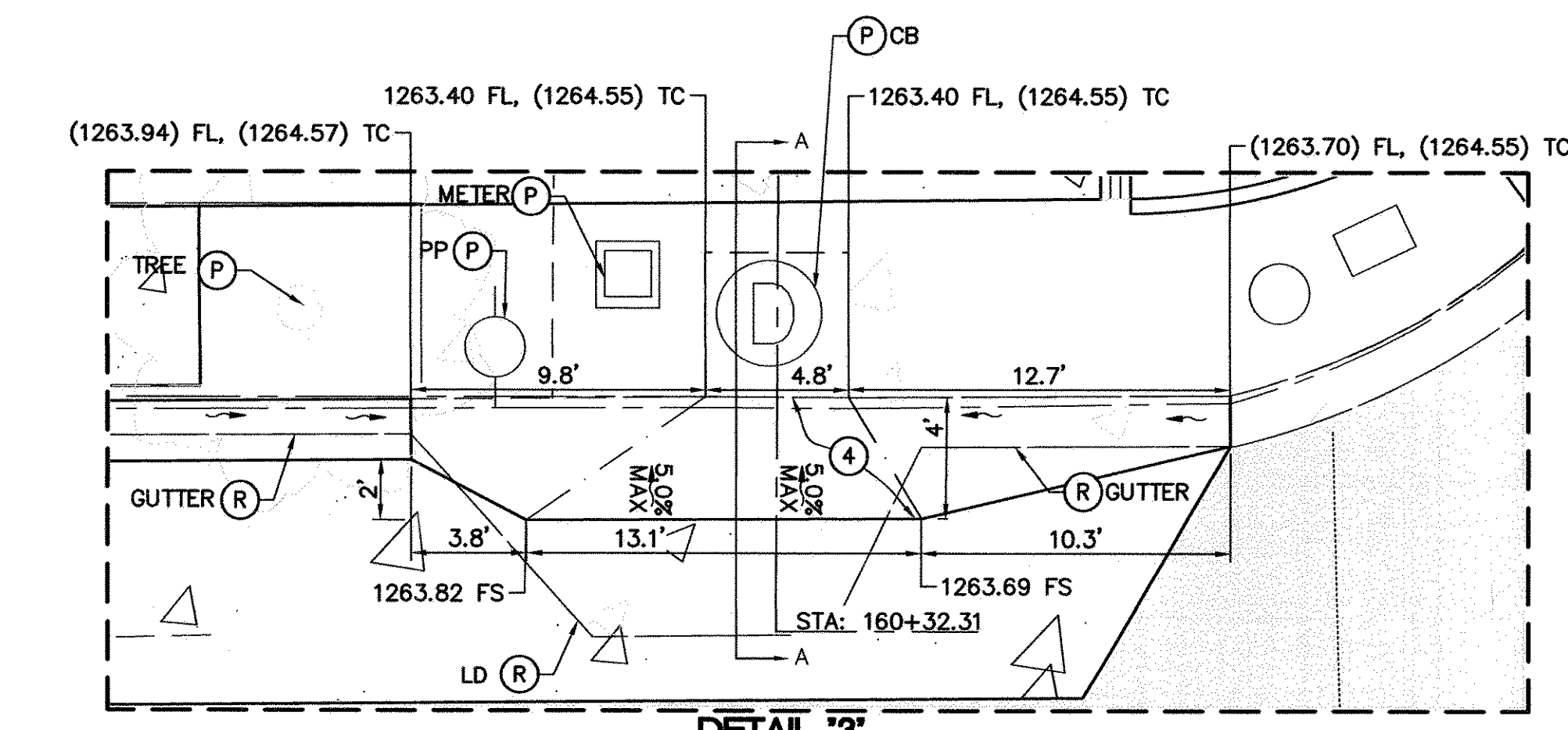
DETAIL '1'
 1"=5'
 LOCAL DEPRESSION



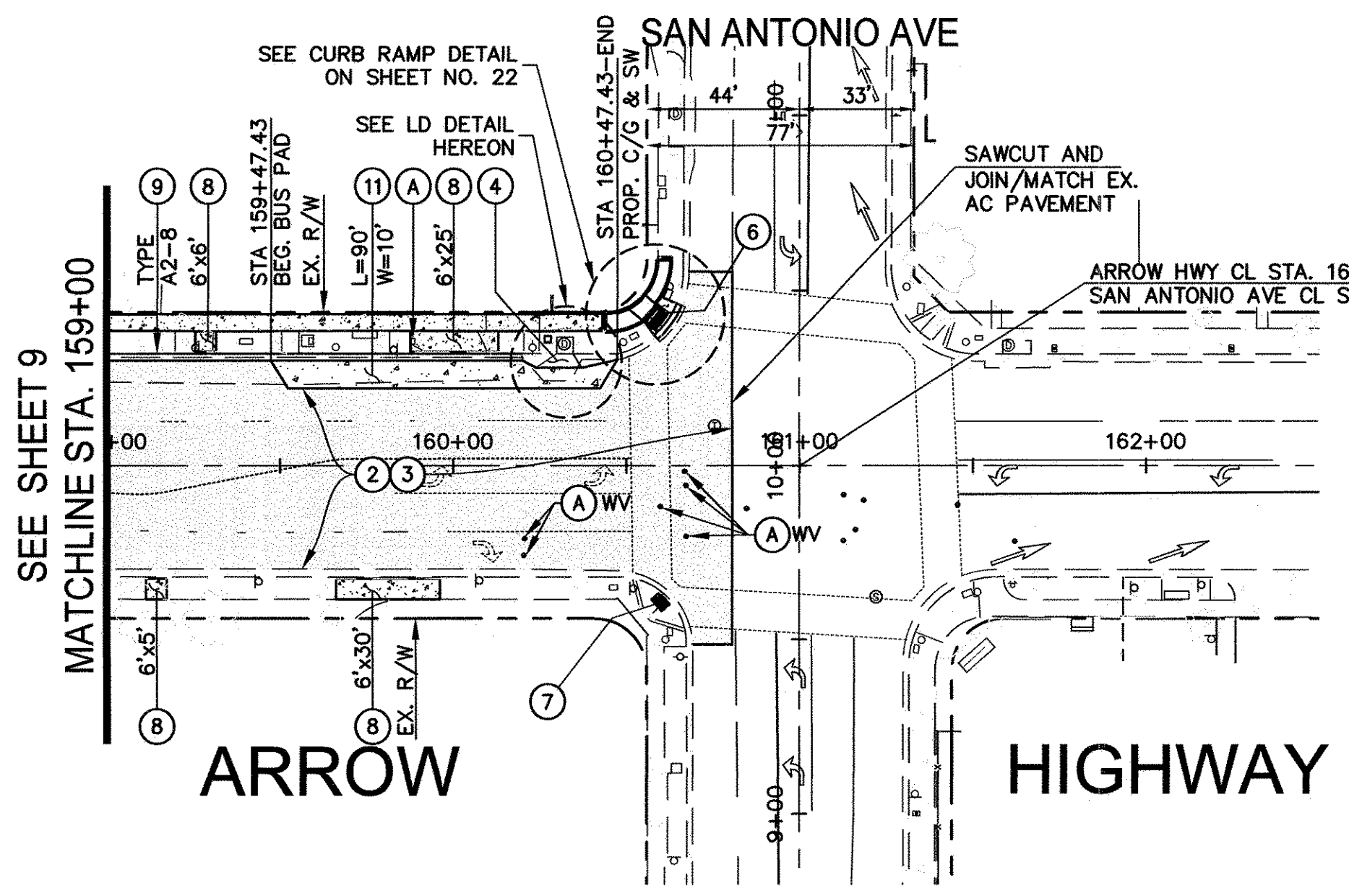
TYPICAL SECTION A-A



DETAIL '2'
 1"=5'
 LOCAL DEPRESSION



DETAIL '3'
 1"=5'
 LOCAL DEPRESSION



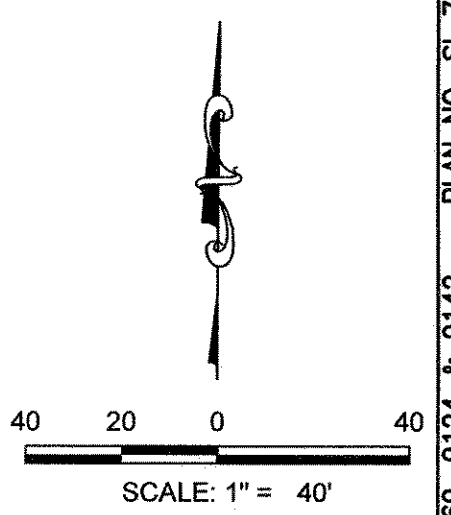
CONSTRUCTION NOTES

- ②-CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
- ③-CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
- ④-CONSTRUCT MODIFIED LOCAL DEPRESSION AT EXISTING CATCH BASIN PER SPPWC STD. PLAN NO. 313-3, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.
- ⑥-CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC GUTTER PER SPPWC STD. PLAN NO. 111-5, TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
- ⑦-INSTALL YELLOW SURFACE MOUNTED TRUNCATED DOME MAT PER SPPWC STD. PLAN NO. 115-5.
- ⑧-CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
- ⑨-CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. TYPE PER PLAN.
- ⑪-CONSTRUCT CONCRETE BUS PAD PER SPPWC STD. PLAN NO. 131-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE. LENGTH(L) AND WIDTH(W) PER PLAN.

- (P) PROTECT
- (R) REMOVE
- (RL) RELOCATE
- (A) ADJUST TO GRADE

LEGEND

- 2-INCH ASPHALT RUBBER HOT MIX (ARHM) OVER 4-INCH THICK AC BASE COURSE (PG 64-10-B)
- PROPOSED PCC



811 DIGALERT
 Know what's below. Call 811 before you dig. Underground Service Alert of Southern California
 Section 42164216.9 of the Government Code requires a DIG ALERT Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number Call Underground Service Alert 811 two working days before you dig

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]* 5/16/23
 Date
KOA
 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL: REGISTERED PROFESSIONAL ENGINEER
 CHARLES F. STEPHAN
 No. C50481
 CIVIL
 STATE OF CALIFORNIA

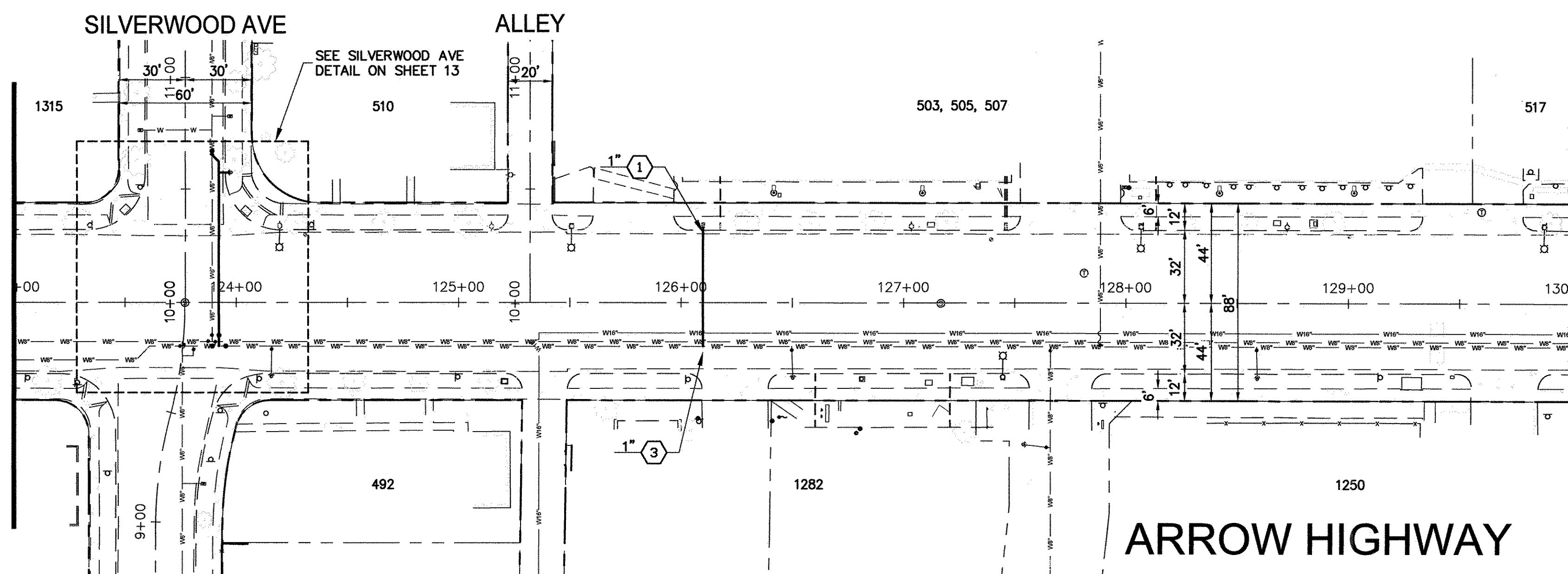
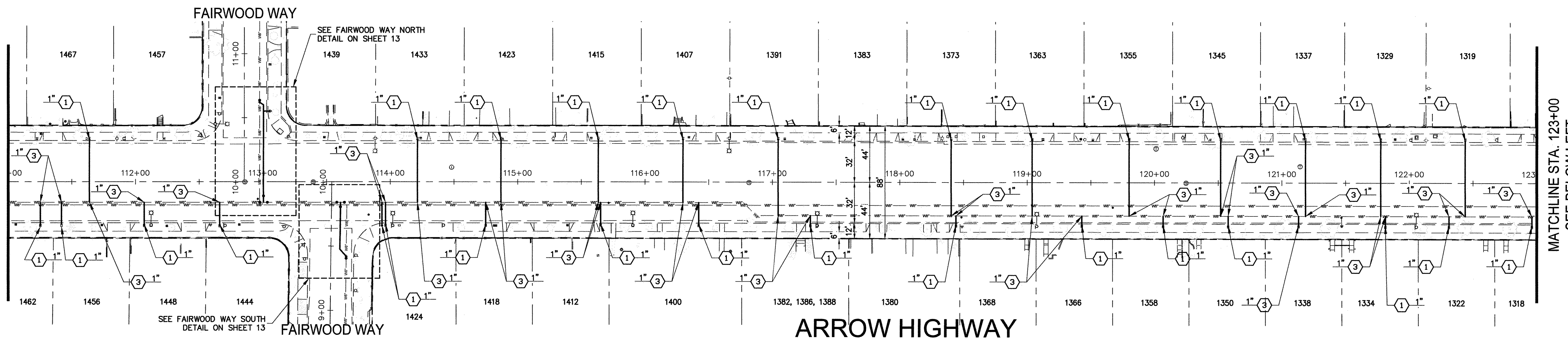
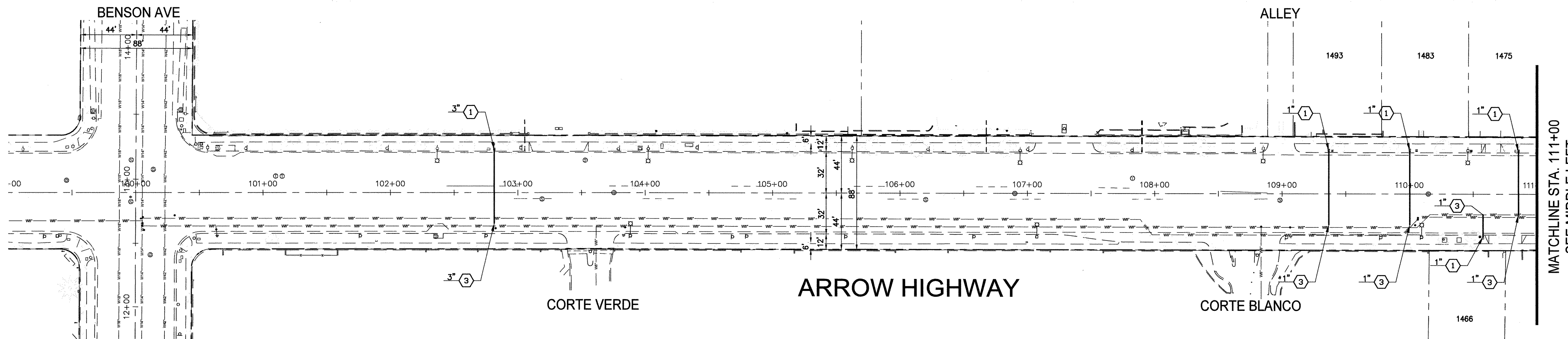
DRAWN BY: KT
 DESIGNED BY: AA
 CHECKED BY: HG
 RECOMMENDED BY:

APPROVED BY: *[Signature]* 5/16/23
 DATE
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024
 RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER
 RECOMMENDED BY: *[Signature]*
 DEVELOPMENT SERVICES

CITY OF UPLAND
 PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
 STREET IMPROVEMENT PLANS STA 159+00 TO STA 162+00 AND LOCAL DEPRESSION DETAIL SHEET

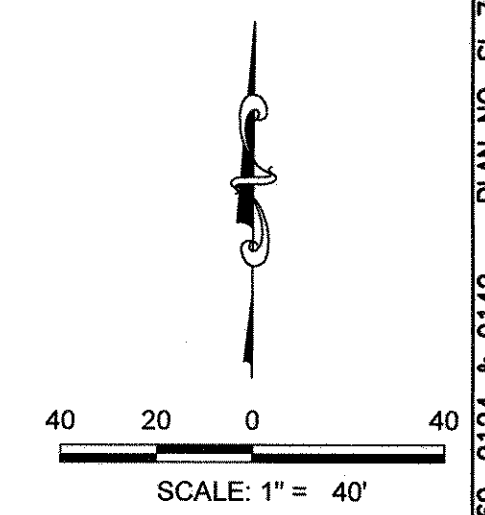
SHEET 10
 OF 26 SHEETS
 DRAWING NO. 7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



WATER CONSTRUCTION NOTES

1. INSTALL NEW TYPE "K" COPPER SERVICE LATERALS (SIZE PER PLAN) AND METER BOX PER CITY OF UPLAND STD. DWG. NO. W.02 AND W.03. CONNECT TO EXISTING CUSTOMER SERVICE LATERAL. REUSE EXISTING WATER METER AND/OR NEW WATER METER SUPPLIED BY THE CITY. INSTALL NEW METER BOX TO BE PROVIDED BY THE CITY WATER DIVISION. CORPORATION STOP SHALL BE 300 PSI RATED. CUT AND CAP EXISTING LATERAL 3' BELOW METER BOX.
2. CONNECT NEW 8-INCH WATER MAIN TO EXISTING 12-INCH WATER MAIN PER CITY OF UPLAND STD. PLAN NO. W.10.
3. CONNECT NEW LATERALS TO EXISTING 12-INCH LATERALS. SIZE PER PLAN.
4. FURNISH AND INSTALL CML&C STEEL LATERAL AND FITTINGS. SIZE PER PLAN.
5. FURNISH AND INSTALL FLANGED GATE VALVE. SIZE PER PLAN. ADJUST TO GRADE PER CITY OF UPLAND STD. DWG. W.07.
6. ABANDON EXISTING 6-INCH WATER MAIN IN PLACE PER CITY OF UPLAND STD. DWG. W.10. IF UNABLE TO ACHIEVE A COMPLETE WATER SHUT DOWN, WELD AND BLIND FLANGE NEED TO BE INSTALLED.
7. CUT AND REMOVE PORTION OF ABANDONED 6-INCH PIPE AND PLUG EACH END WITH CEMENT MORTAR 12-INCH MINIMUM LENGTH.
8. INSTALL CML&C STEEL TEE MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. DWG. W.24.
9. INSTALL CML&C STEEL BEND MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. PLAN NO. W.24.
10. FURNISH AND INSTALL 6-INCH FIRE HYDRANT ASSEMBLY PER CITY WATER STD. PLAN NO. W.05.



811
Know what's below.
Call 811 before you dig.

DIGALERT
Underground Service Alert of Southern California

Section 42164216.9 of the Government Code requires a DIG ALERT Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number Call Underground Service Alert 811 two working days before you dig

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By:
[Signature] 5/6/03
Date

KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:
REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPHAN
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

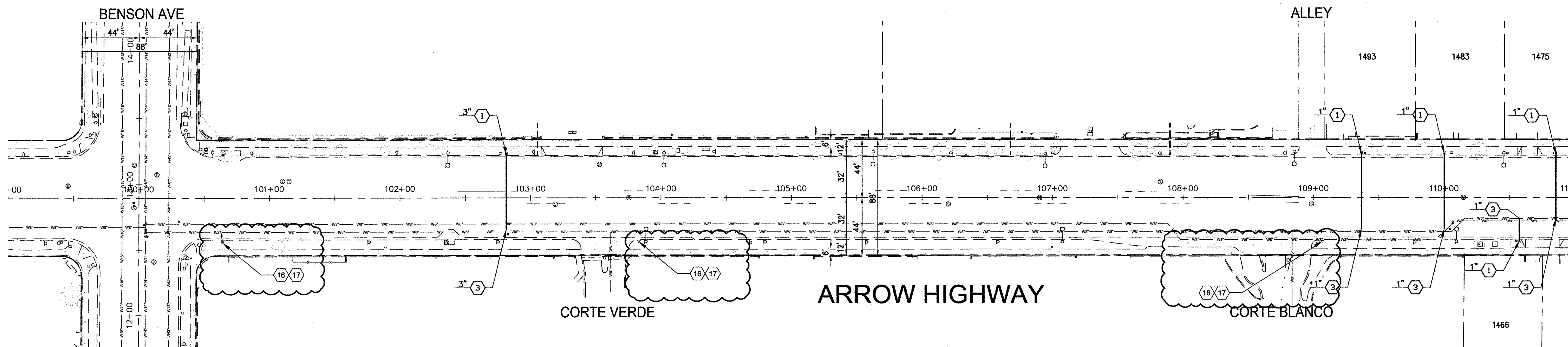
APPROVED BY: *[Signature]* 5.10.23
DATE
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

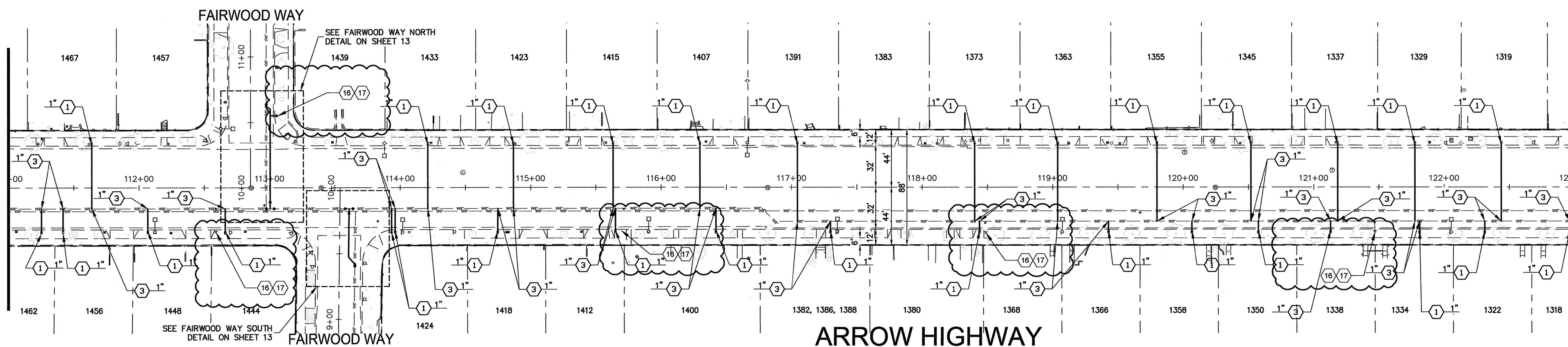
CITY OF UPLAND
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS WATER PLANS
STA 99+00 TO STA 130+00

SHEET
11
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142

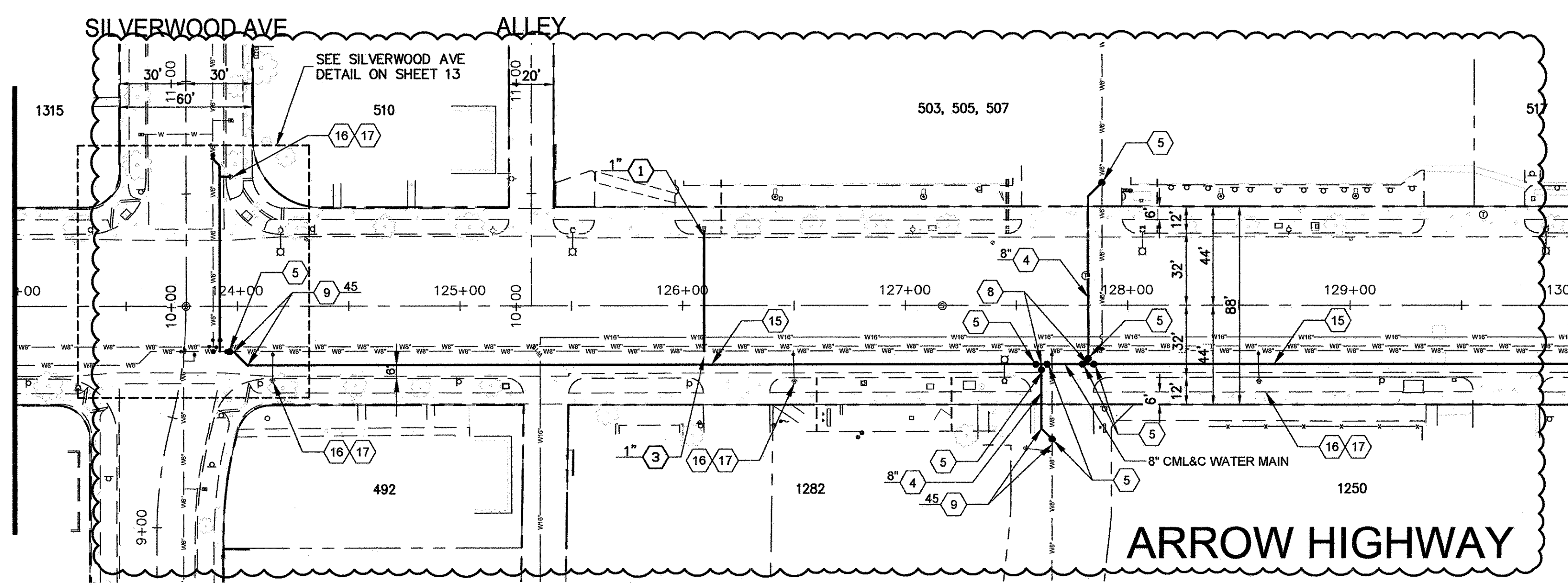


MATCHLINE STA. 111+00
SEE MIDDLE LEFT



SEE ABOVE RIGHT
MATCHLINE STA. 111+00

MATCHLINE STA. 123+00
SEE BELOW LEFT

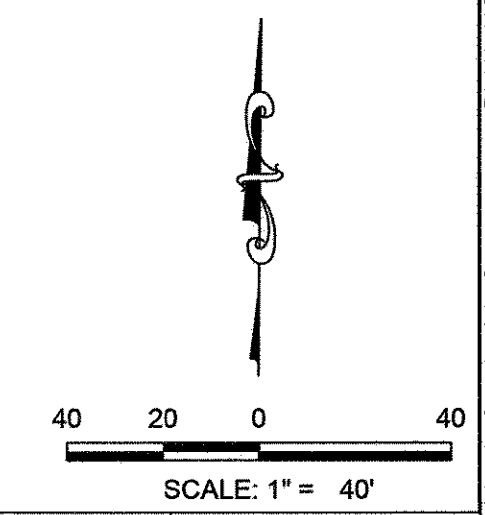


SEE MIDDLE RIGHT
MATCHLINE STA. 123+00

MATCHLINE STA. 130+00
SEE SHEET 12

WATER CONSTRUCTION NOTES

- 1 INSTALL NEW TYPE "K" COPPER SERVICE LATERALS (SIZE PER PLAN) AND METER BOX PER CITY OF UPLAND STD. DWG. NO. W.02 AND W.03. CONNECT TO EXISTING CUSTOMER SERVICE LATERAL. REUSE EXISTING WATER METER AND/OR NEW WATER METER SUPPLIED BY THE CITY. INSTALL NEW METER BOX TO BE PROVIDED BY THE CITY WATER DIVISION. CORPORATION STOP SHALL BE 300 PSI RATED. CUT AND CAP EXISTING LATERAL 3' BELOW METER BOX.
- 2 CONNECT NEW 8-INCH WATER MAIN TO EXISTING 12-INCH WATER MAIN PER CITY OF UPLAND STD. PLAN NO. W.10.
- 3 CONNECT NEW LATERALS TO EXISTING 12-INCH LATERALS. SIZE PER PLAN.
- 4 FURNISH AND INSTALL CML&C STEEL LATERAL AND FITTINGS. SIZE PER PLAN.
- 5 FURNISH AND INSTALL FLANGED GATE VALVE, SIZE PER PLAN. ADJUST TO GRADE PER CITY OF UPLAND STD. DWG. W.07.
- 6 ABANDON EXISTING 6-INCH WATER MAIN IN PLACE PER CITY OF UPLAND STD. DWG. W.10. IF UNABLE TO ACHIEVE A COMPLETE WATER SHUT DOWN, WELD AND BLIND FLANGE NEED TO BE INSTALLED.
- 7 CUT AND REMOVE PORTION OF ABANDONED 6-INCH PIPE AND PLUG EACH END WITH CEMENT MORTAR 12-INCH MINIMUM LENGTH.
- 8 INSTALL CML&C STEEL TEE MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. DWG. W.24.
- 9 INSTALL CML&C STEEL BEND MJ X MJ SIZE PER PLAN WITH THRUST BLOCK PER CITY OF UPLAND STD. PLAN NO. W.24.
- 10 FURNISH AND INSTALL 6-INCH FIRE HYDRANT ASSEMBLY PER CITY WATER STD.
- 15 FURNISH & INSTALL 8" CML&C CLASS 300 STEEL WATER LINE AND FITTINGS (JOINTS FULLY WELDED) PER CITY WATER STD. NO. W.23
- 16 REMOVE, SALVAGE AND DELIVER EXISTING FIRE HYDRANT AS DIRECTED BY THE CITY ENGINEER.
- 17 FURNISH AND INSTALL 6" FIRE HYDRANT, CHECK VALVE, 3"x3"x6" PCC SLAB AND FLANGE CONNECTION ASSEMBLY PER CITY STD. DWG. NO. W.05.



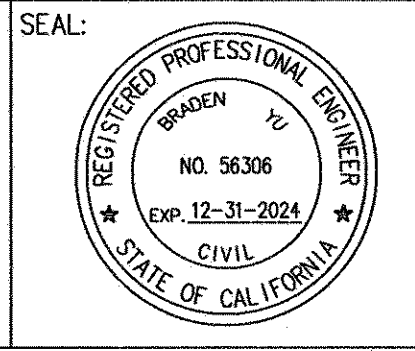
BENCHMARK:

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

PLANS PREPARED BY

CITY OF UPLAND
PUBLIC WORKS DEPARTMENT
1370 N. BENSON AVENUE
UPLAND, CA 91785

(909) 291-2930 PHONE
(909) 291-2974 FAX



SEAL: [Signature]

DRAWN BY: [Signature] DATE: 5.10.23

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

RECOMMENDED BY: [Signature]

APPROVED BY: [Signature] DATE: 5.10.23

RECOMMENDED BY: [Signature] DATE: [Signature]

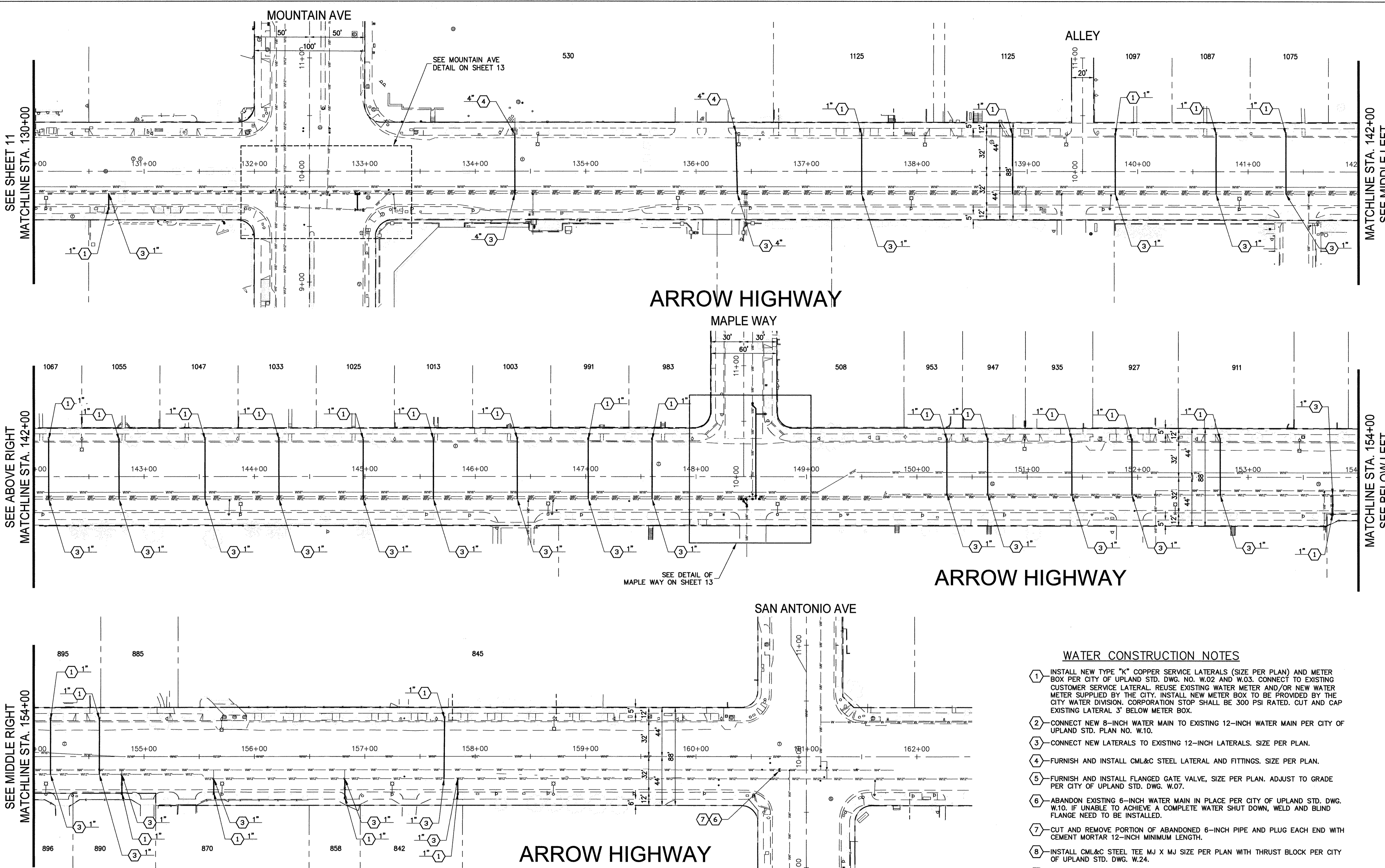
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CITY OF UPLAND

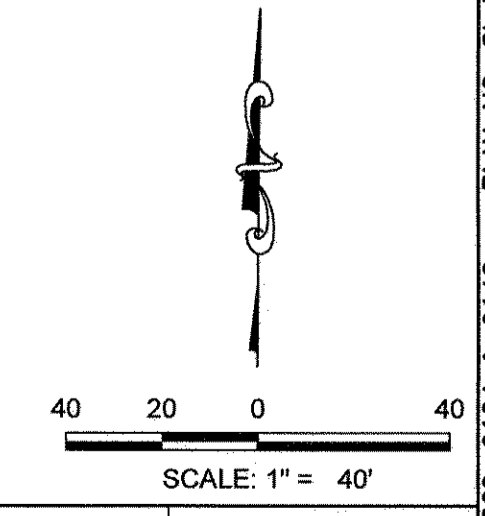
ARROW HIGHWAY - SILVERWOOD AVE. TO MOUNTAIN AVE.
WATER IMPROVEMENT PLANS

SHEET
11A
OF 26 SHEETS
DRAWING NO.

PROJECT NO. 7069, 9124 & 9142 PLAN NO.



- WATER CONSTRUCTION NOTES**
- 1- INSTALL NEW TYPE "K" COPPER SERVICE LATERALS (SIZE PER PLAN) AND METER BOX PER CITY OF UPLAND STD. DWG. NO. W.02 AND W.03. CONNECT TO EXISTING CUSTOMER SERVICE LATERAL. REUSE EXISTING WATER METER AND/OR NEW WATER METER SUPPLIED BY THE CITY. INSTALL NEW METER BOX TO BE PROVIDED BY THE CITY WATER DIVISION. CORPORATION STOP SHALL BE 300 PSI RATED. CUT AND CAP EXISTING LATERAL 3" BELOW METER BOX.
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 - 10- FURNISH AND INSTALL 6-INCH FIRE HYDRANT ASSEMBLY PER CITY WATER STD. PLAN NO. W.05.



811
Know what's below.
Call 811 before you dig.

DIGALERT
Underground Service Alert of Southern California

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REVISIONS			
MARK	DATE	INITIAL	DESCRIPTION

Plan Prepared By:

[Signature]
KOA

3190 C. Shelby Street
Ontario, California 91764
Tel: (951) 890-9653 Fax: (951) 890-9694

Date: 5/16/03

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPHAN, SR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY:

APPROVED BY:

[Signature]
DATE: 5-10-23

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY:
[Signature]
CAPITAL IMPROVEMENTS MANAGER

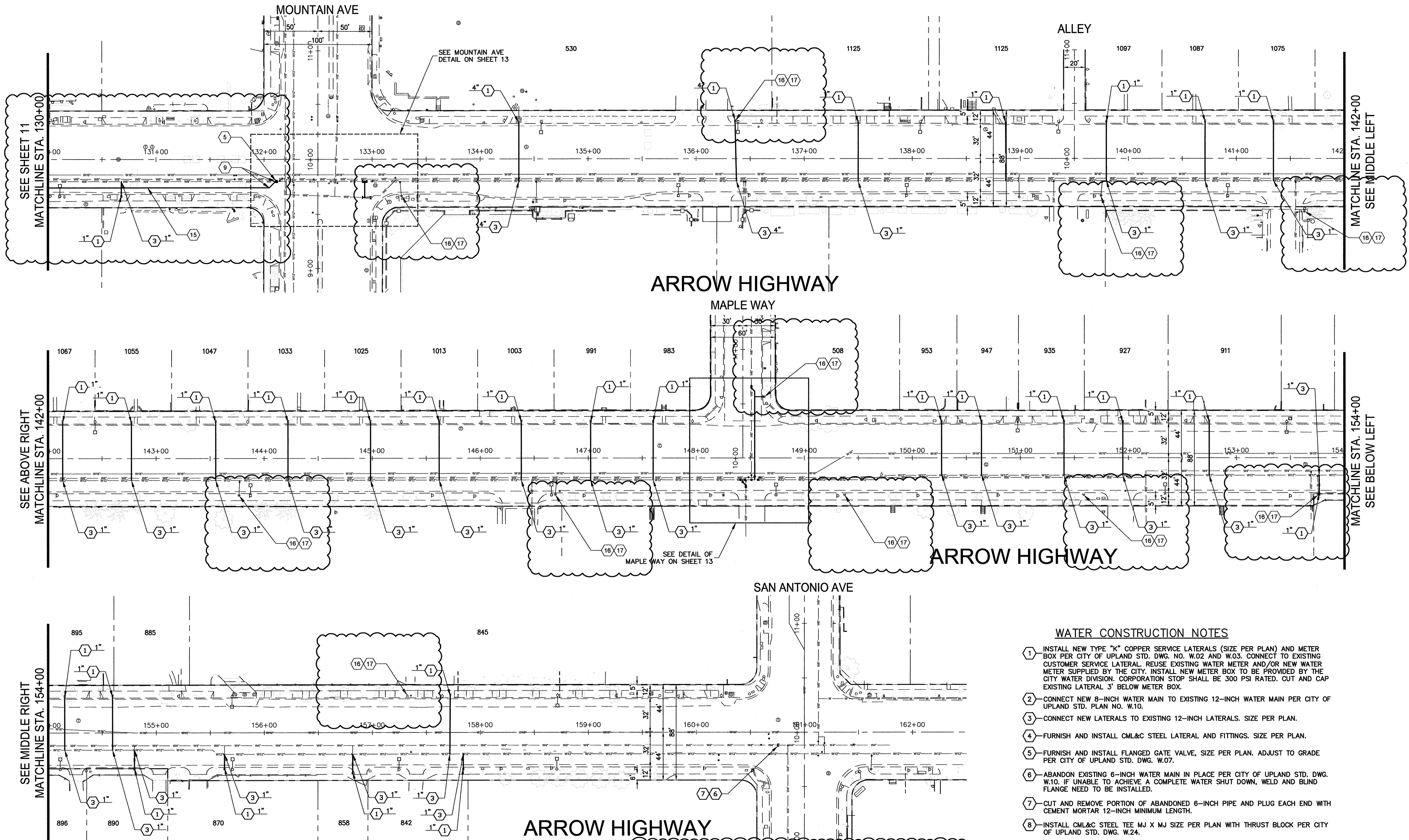
RECOMMENDED BY:
DEVELOPMENT SERVICES

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
WATER PLANS
STA 130+00 TO STA 163+00

SHEET
12
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



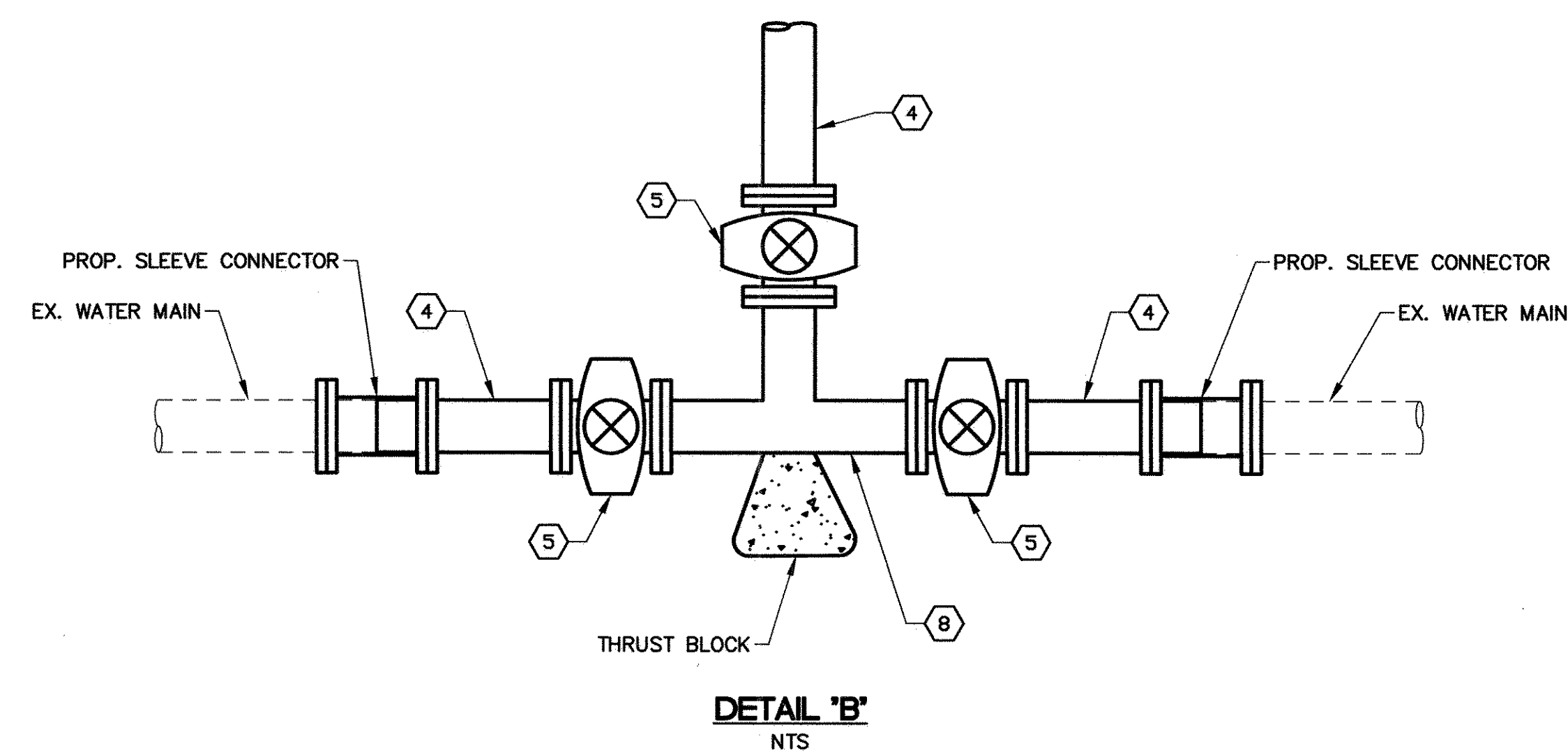
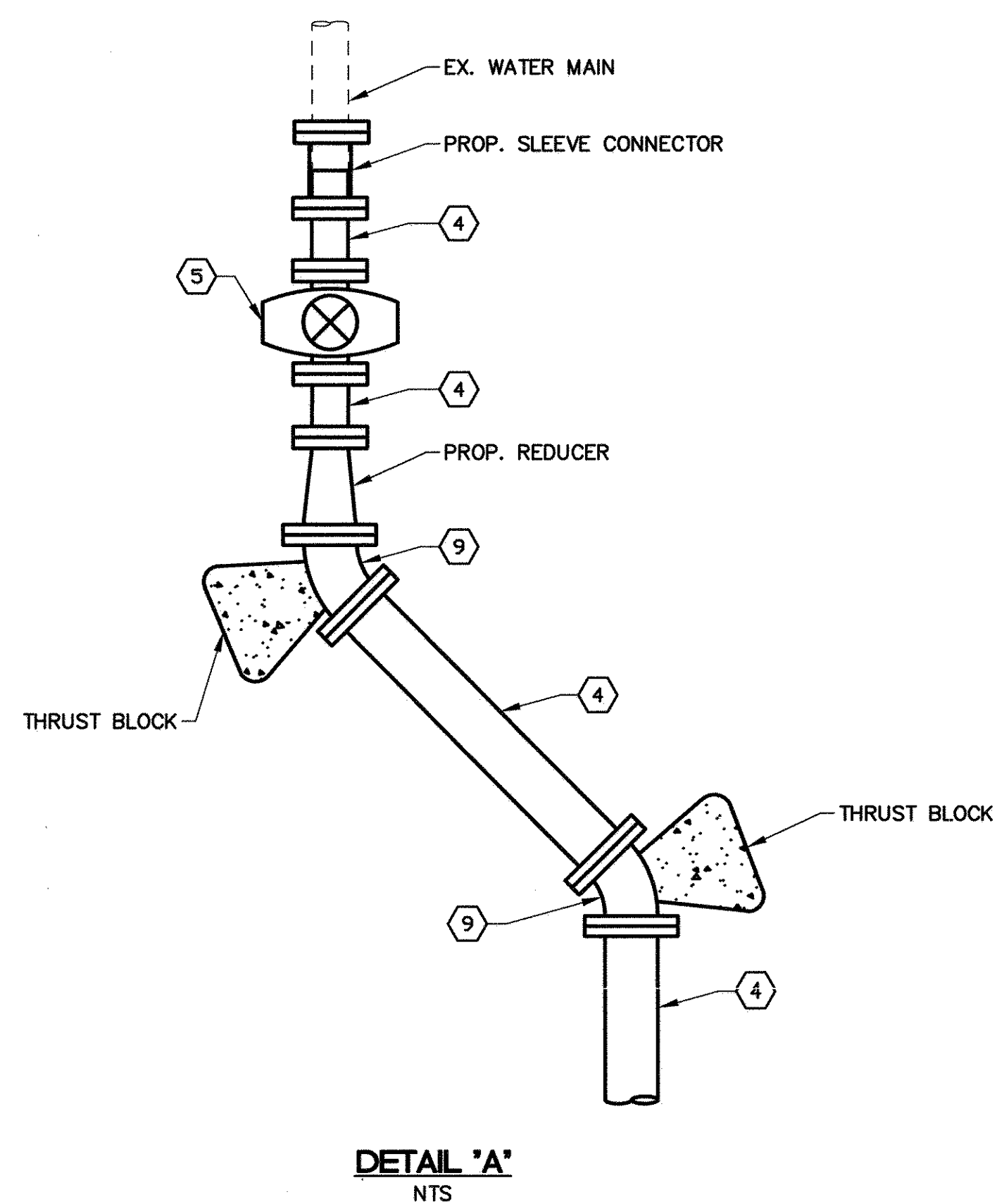
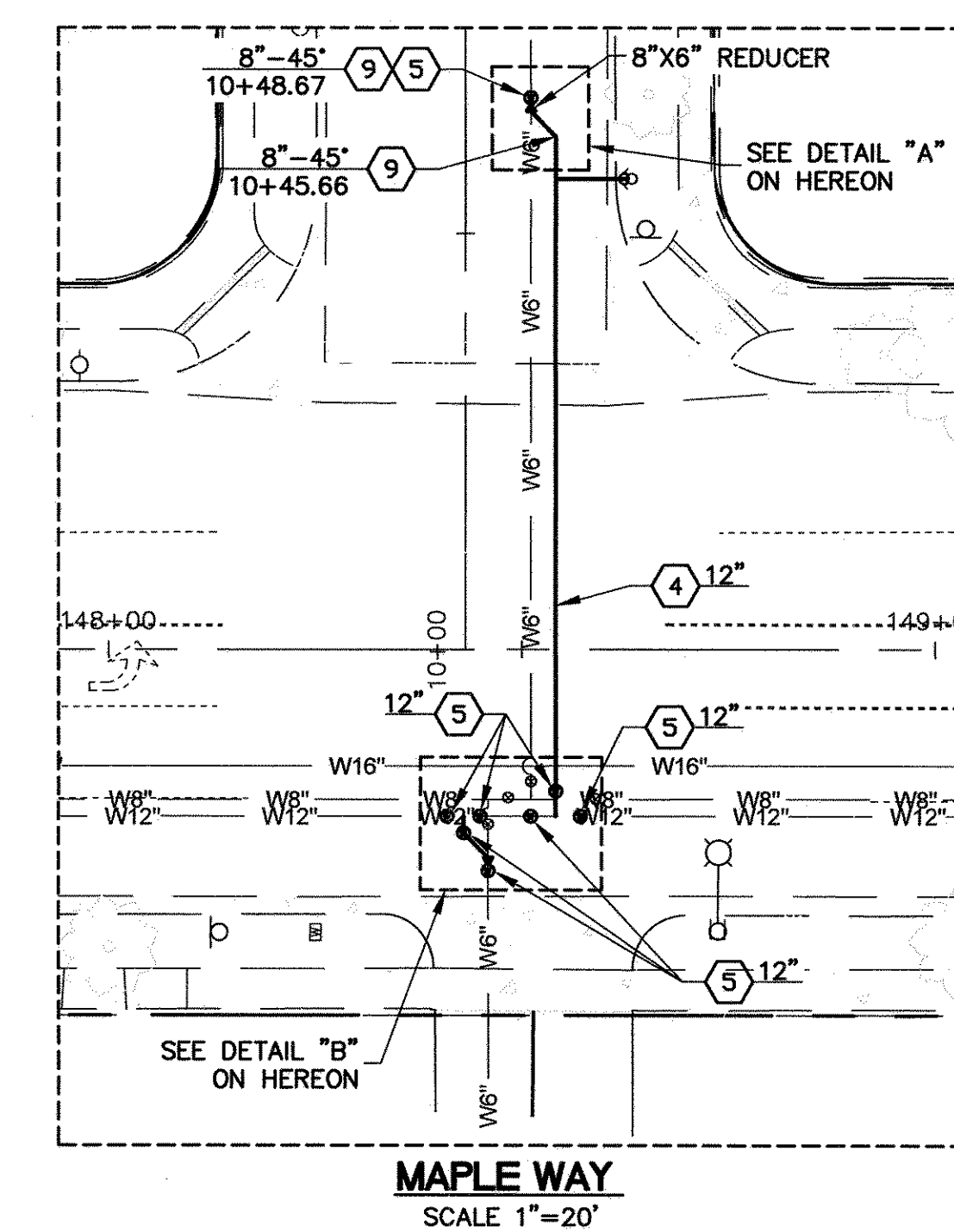
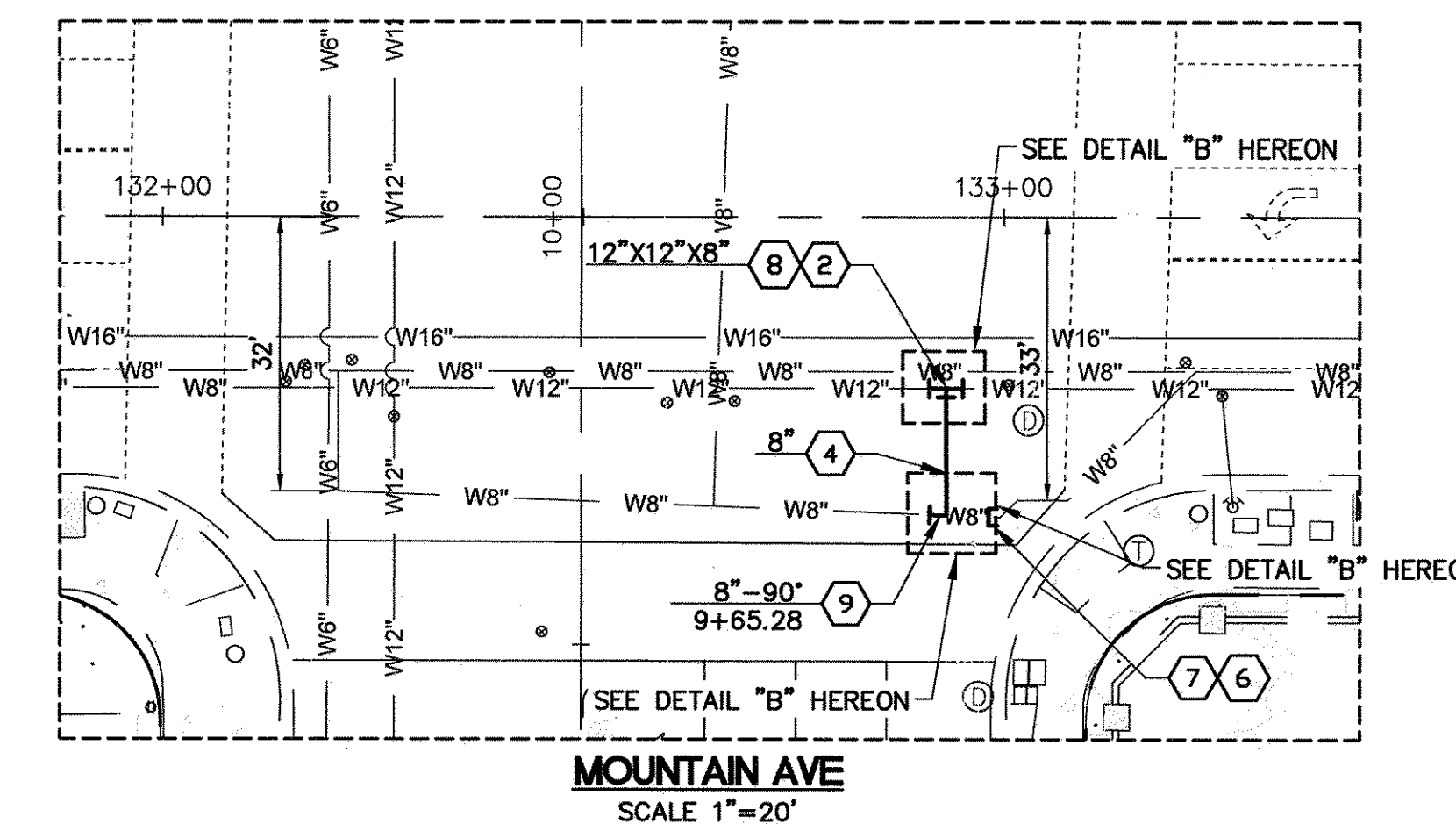
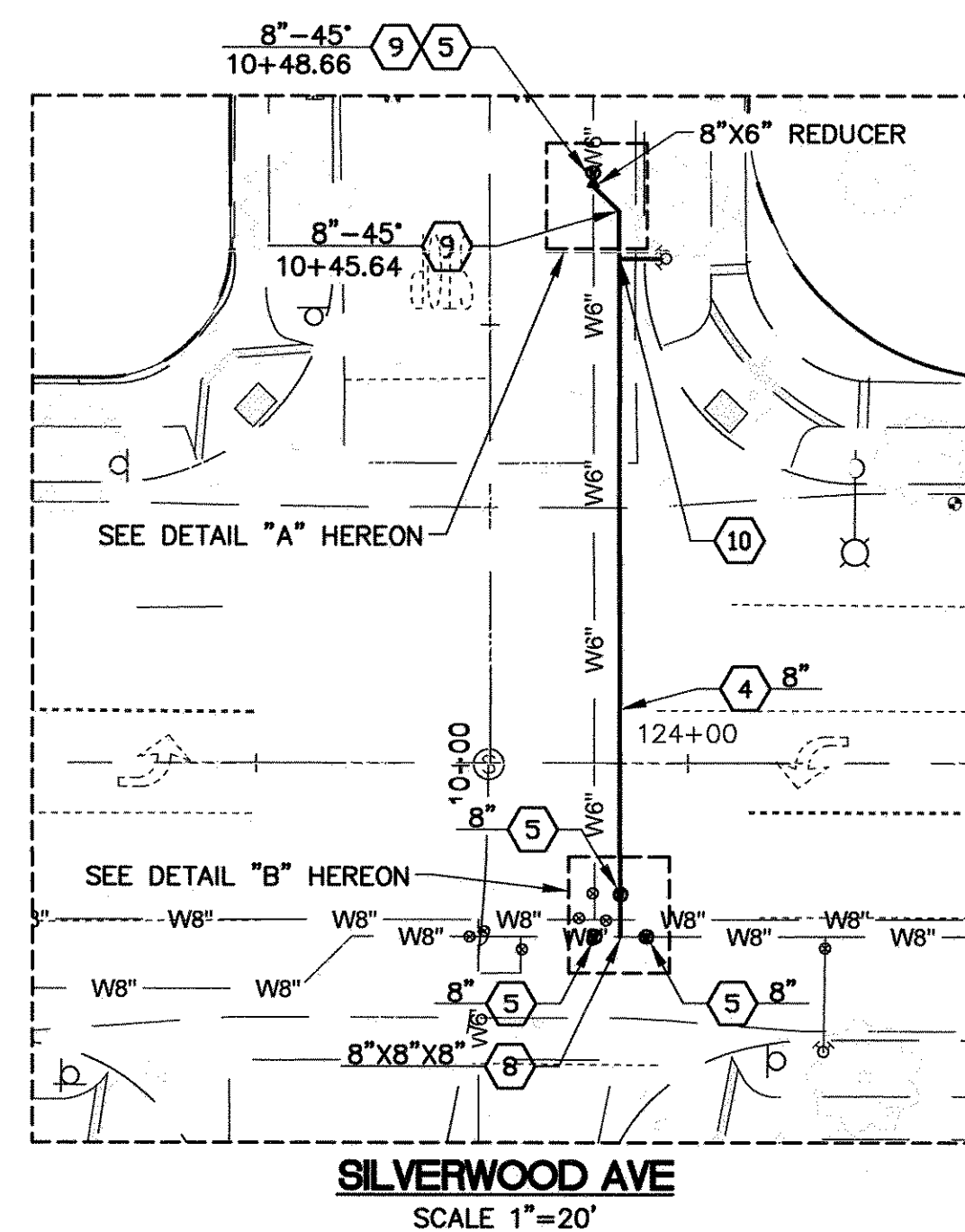
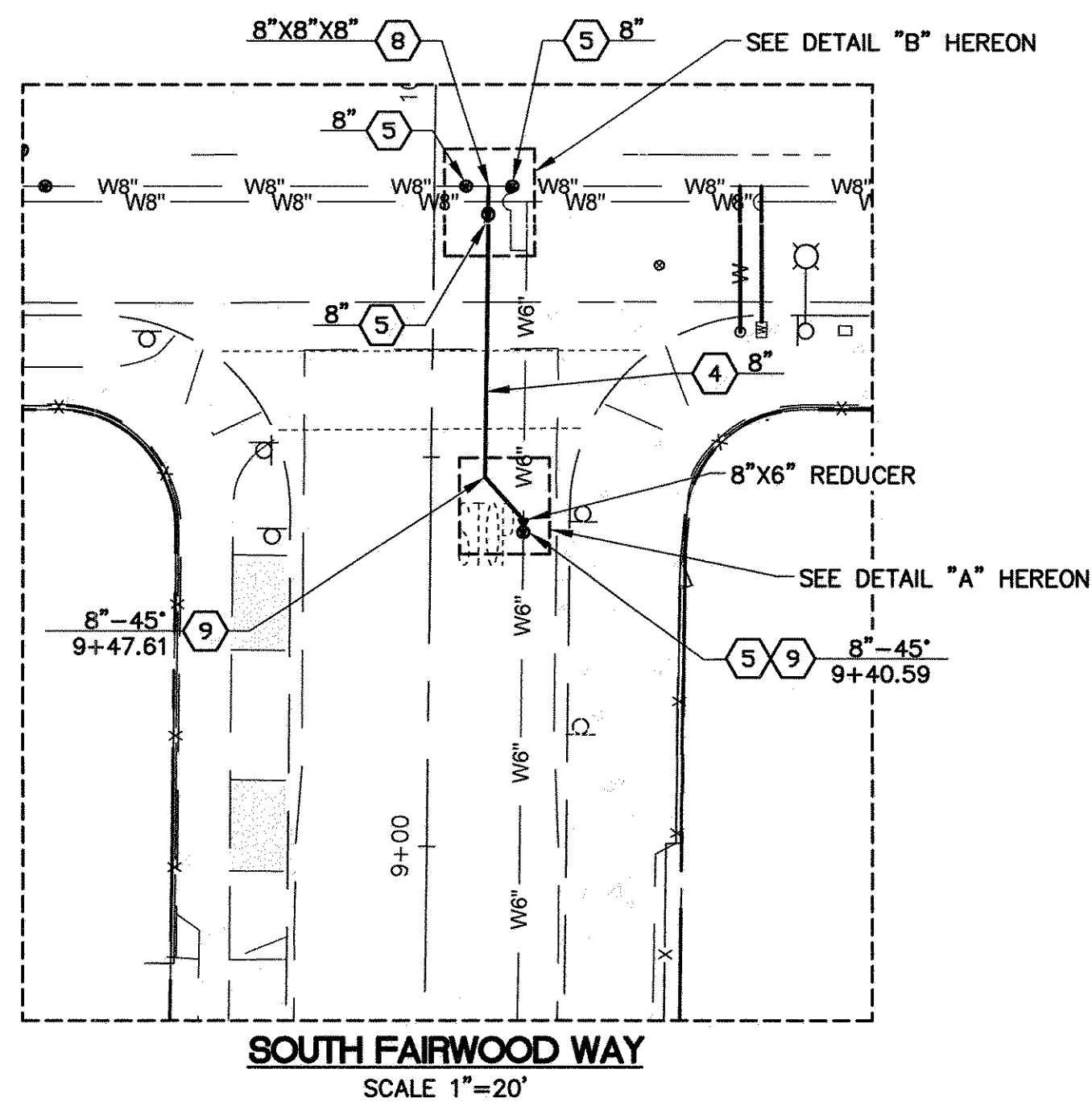
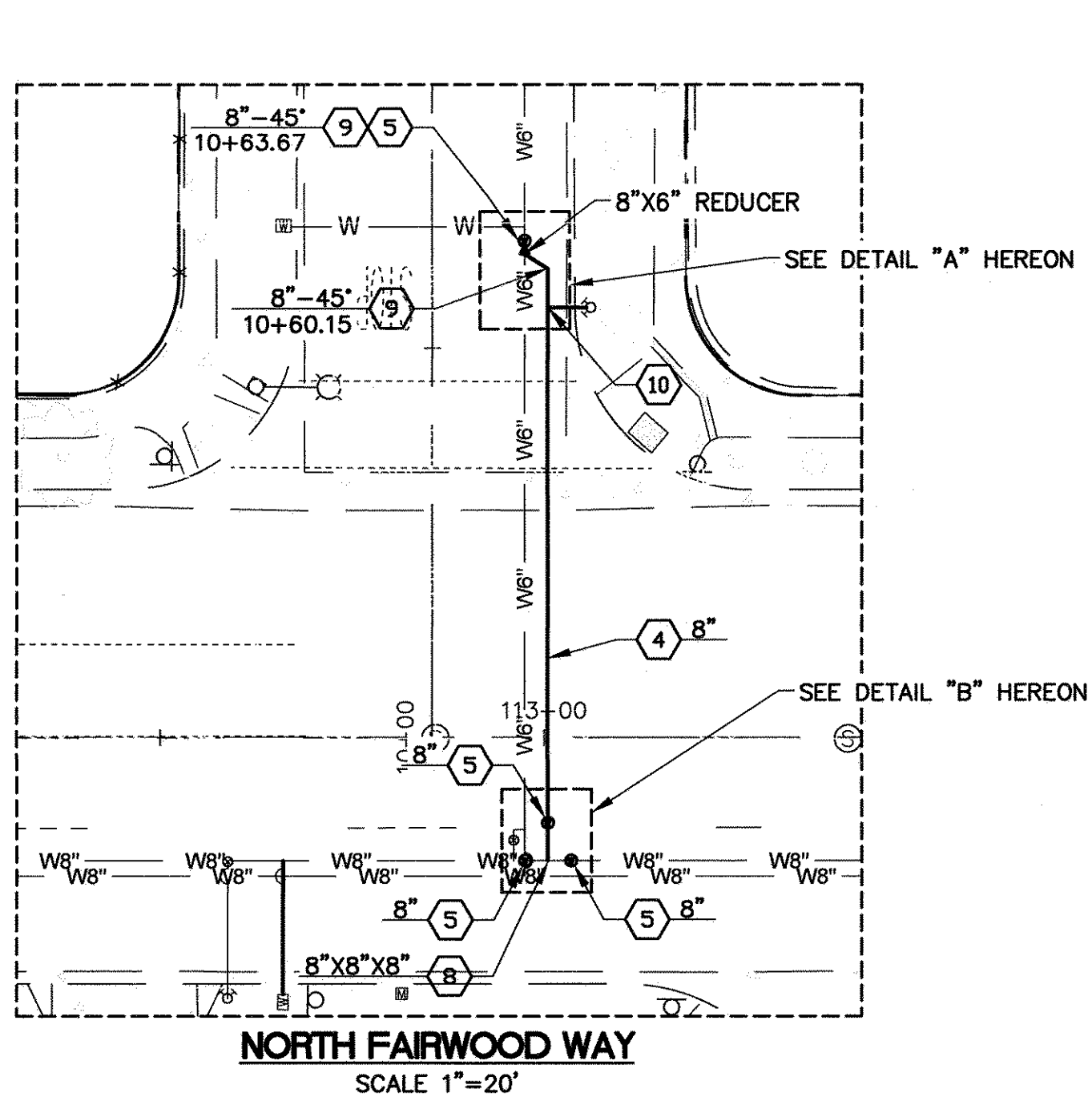
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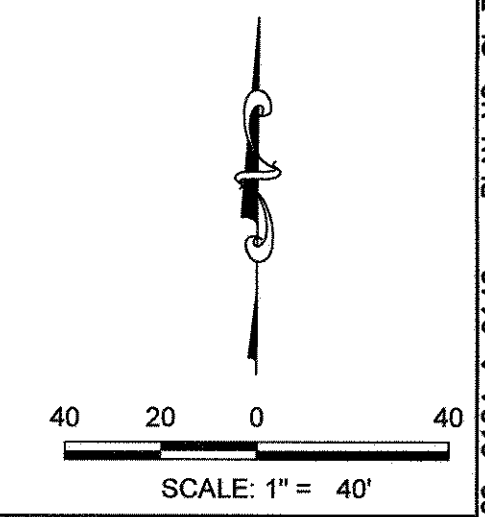
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<p>BENCHMARK:</p>	<p>800-227-2600 AT LEAST TWO DAYS BEFORE YOU DIG</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>MARK</th> <th>DATE</th> <th>INITIAL</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS				MARK	DATE	INITIAL	DESCRIPTION													<p>PLANS PREPARED BY</p> <p>CITY OF UPLAND PUBLIC WORKS DEPARTMENT 1370 N. BENSON AVE UPLAND, CA 91785</p> <p>(909) 291-2930 PHONE (909) 291-2974 FAX</p>	<p>SEAL:</p>	<p>DRAWN BY:</p> <p>DESIGNED BY:</p> <p>CHECKED BY:</p> <p>RECOMMENDED BY:</p>	<p>APPROVED BY:</p> <p>5.10.23 DATE</p> <p>DIRECTOR OF PUBLIC WORKS R.C.E. C56306 EXP. DATE 12-31-2024</p> <p>RECOMMENDED BY:</p> <p>CAPITAL IMPROVEMENTS MANAGER</p>	<p>CITY OF UPLAND</p> <p>ARROW HIGHWAY - SILVERWOOD AVE. TO MOUNTAIN AVE. WATER IMPROVEMENT PLANS</p>	<p>SHEET 12A</p> <p>OF 26 SHEETS DRAWING NO.</p>
REVISIONS																												
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PROJECT NO. 7069; 9124 & 9142 PLAN NO.



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MARK	DATE	INITIAL	REVISIONS DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]*
Date: 8/10/09

KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL: **REGISTERED PROFESSIONAL ENGINEER**
CHARLES F. STEPHAN
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

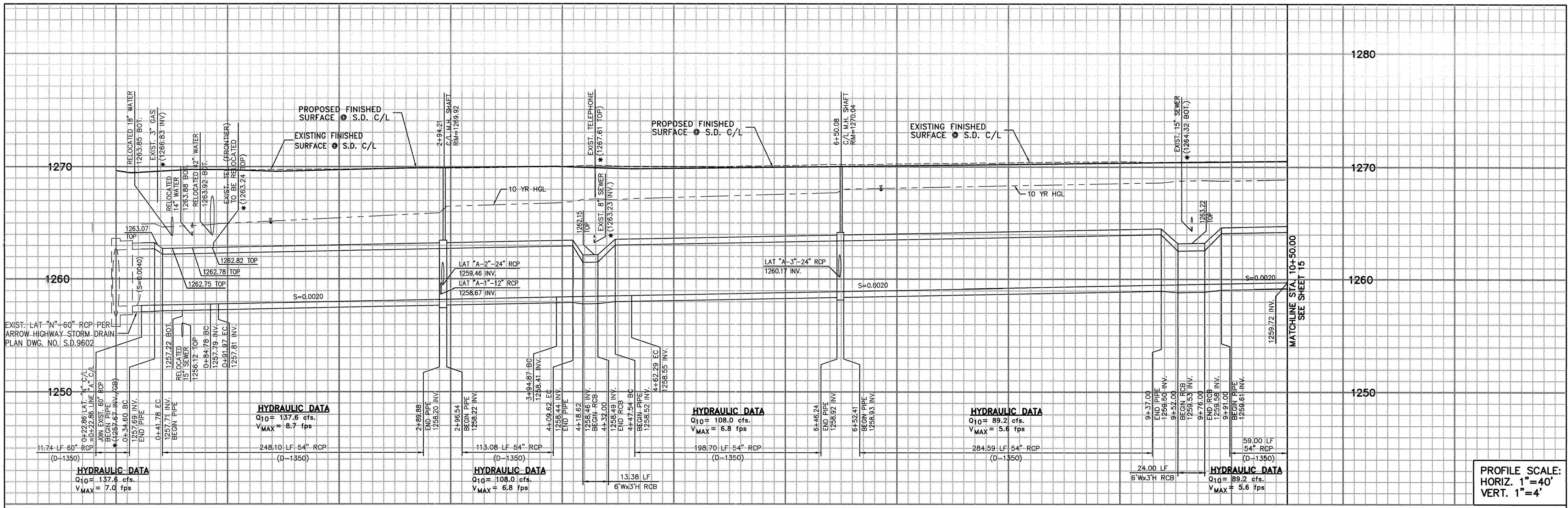
APPROVED BY: *[Signature]* 5/10/22 DATE
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

CITY OF UPLAND
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
WATER PLANS
DETAIL SHEET

SHEET
13
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142

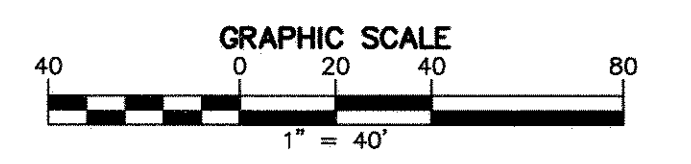
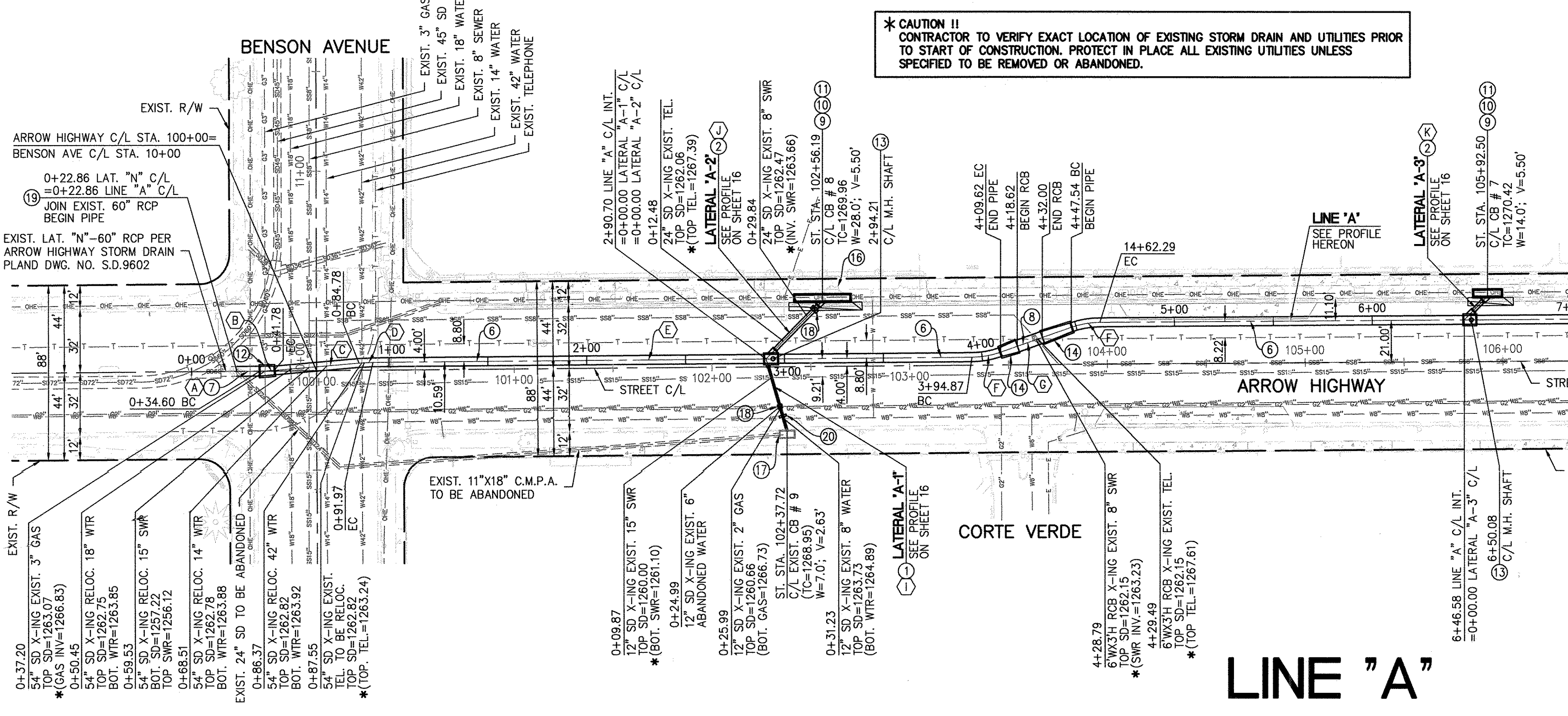


PROFILE SCALE:
 HORIZ. 1"=40'
 VERT. 1"=4'

CURVE/LINE DATA

POINT	DELTA BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	N89°32'30"E	-	11.74'	-
(B)	4°34'18"	90.00'	7.18'	3.59'
(C)	N84°58'12"E	-	43.00'	-
(D)	4°34'18"	90.00'	7.19'	3.59'
(E)	N89°32'30"E	-	302.90'	-
(F)	18°46'41"	45.00'	14.75'	7.44'
(G)	N70°45'49"E	-	37.92'	-
(H)	N89°32'30"E	-	587.71'	-
(I)	N16°22'03"W	-	37.84'	-
(J)	N44°32'30"E	-	40.78'	-
(K)	N44°32'30"E	-	16.71'	-

- CONSTRUCTION NOTES**
- CONSTRUCT 12" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 24" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 30" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 36" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 42" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 54" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 60" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
 - CONSTRUCT 6'W X 3'H RCB PER CALTRANS 2018 STD. PLAN D80.
 - CONSTRUCT CURB OPENING CATCH BASIN PER S.P.P.W.C. STD. PLAN 300-4.
 - CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER S.P.P.W.C. STD. PLAN 308-3.
 - CONSTRUCT TYPE A LOCAL DEPRESSION PER SAN BERNARDINO COUNTY STD. 203B.
 - CONSTRUCT TRANSITION STRUCTURE PIPE TO PIPE PER S.P.P.W.C. STD. PLAN 340-2.
 - CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 322-3.
 - CONSTRUCT TRANSITION STRUCTURE RCB TO PIPE PER S.P.P.W.C. STD. PLAN 342-2.
 - CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 320-2.
 - REMOVE EXISTING TREE.
 - PLUG EXISTING OUTLET PIPE WITH CLASS "B" CONCRETE.
 - CONSTRUCT CONCRETE COLLAR PER S.P.P.W.C. STD. PLAN 380-4.
 - REMOVE EXISTING PIPE CLOSURE AND INTERFERING PORTION OF EXISTING 24" RCP TO FACILITATE CONSTRUCTION OF 60" RCP.
 - CONSTRUCT PIPE ANCHOR AND BACKFILL STABILIZERS PER S.P.P.W.C. STD. PLAN 221-2.



811 DIGALERT
 Know what's below. Call 811 before you dig.
 Underground Service Alert of Southern California

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'D

PLAN PREPARED BY:
ACI
 AGUILAR CONSULTING INC.

231 E. ALESSANDRO BLVD. #6A393
 RIVERSIDE, CA 92508
 PH: (909) 709-4393

DATE: 5/10/23

REGISTERED PROFESSIONAL ENGINEER
CEAZAR V. AGUILAR
 No. 41679
 Exp. 03/31/24
 CIVIL
 STATE OF CALIFORNIA

DRAWN BY: RVB
 DESIGNED BY: LVB
 CHECKED BY: CVA
 RECOMMENDED BY: [Signature]

APPROVED BY: [Signature]
 DIRECTOR OF PUBLIC WORKS
 R.C.E. 056810 EXP. DATE 06-30-2023

RECOMMENDED BY: [Signature]
 CAPITAL IMPROVEMENTS MANAGER

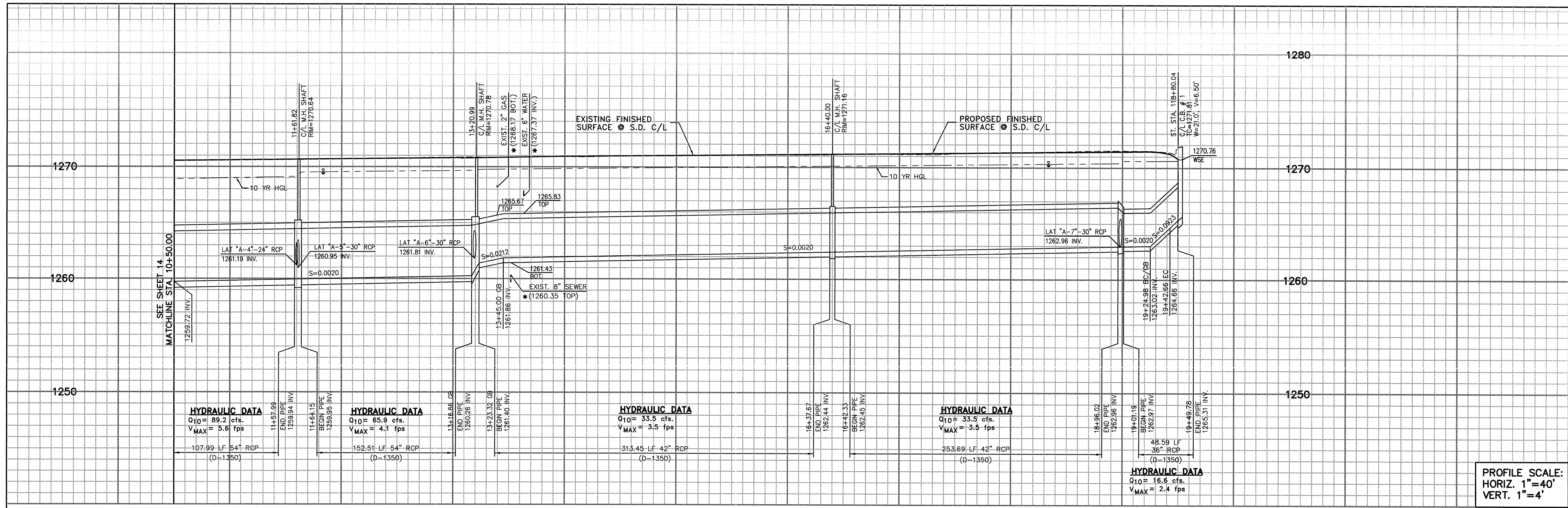
RECOMMENDED BY: [Signature]
 DEVELOPMENT SERVICES

CITY OF UPLAND

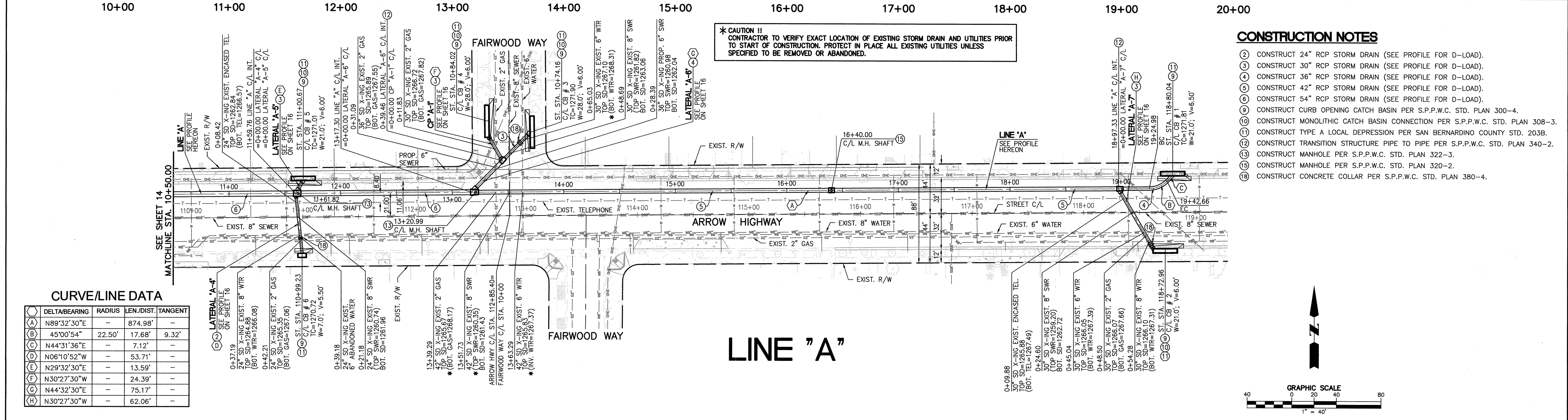
PROJECT NO. 7069 & 9124: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

SHEET 14
 OF 26 SHEETS
 DRAWING NO. -7069/9124

PROJECT NO. 7069/9124 PLAN NO. S1-7069/9124

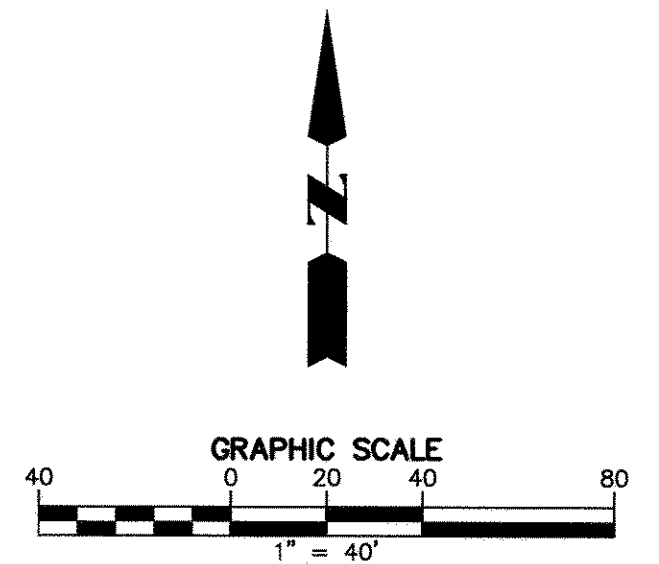


PROFILE SCALE:
HORIZ. 1"=40'
VERT. 1"=4'



*** CAUTION !!**
CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS SPECIFIED TO BE REMOVED OR ABANDONED.

- CONSTRUCTION NOTES**
- (2) CONSTRUCT 24" RCP STORM DRAIN (SEE PROFILE FOR D-LOAD).
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 - (13) CONSTRUCT CONCRETE COLLAR PER S.P.P.W.C. STD. PLAN 380-4.



CURVE/LINE DATA

MARK	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
(A)	N89°32'30"E	-	874.98'	-
(B)	45°00'54"	22.50'	17.68'	9.32'
(C)	N44°31'36"E	-	7.12'	-
(D)	N06°10'52"W	-	53.71'	-
(E)	N29°32'30"E	-	13.59'	-
(F)	N30°27'30"W	-	24.39'	-
(G)	N44°32'30"E	-	75.17'	-
(H)	N30°27'30"W	-	62.06'	-

811
Know what's below. Call 811 before you dig.

DIGALERT
Underground Service Alert of Southern California

Section 42164216.9 of the Government Code requires a DIG ALERT Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number Call Underground Service Alert 811 two working days before you dig.

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

PLAN PREPARED BY:
ACI
AGUILAR CONSULTING INC.

231 E. ALESSANDRO BLVD. #6A393
RIVERSIDE, CA 92508
PH: (909) 709-4393

CEAZAR V. AGUILAR
R.C.E. NO. 41679
EXP. 03-31-24

DATE: 5/10/23

REGISTERED PROFESSIONAL ENGINEER
CEAZAR V. AGUILAR
41679
R.C.E. NO. 41679
EXP. 03/31/24
CIVIL
STATE OF CALIFORNIA

DRAWN BY: RVB
DESIGNED BY: LVB
CHECKED BY: CVA
RECOMMENDED BY: [Signature]

APPROVED BY: [Signature]
DIRECTOR OF PUBLIC WORKS
R.C.E. C56810 EXP. DATE 06-30-2023

RECOMMENDED BY: [Signature]
CAPITAL IMPROVEMENTS MANAGER

RECOMMENDED BY: [Signature]
DEVELOPMENT SERVICES

DATE: 5/10/23

CITY OF UPLAND

PROJECT NO. 7069 & 9124: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

SHEET 15 OF 26 SHEETS
DRAWING NO. -7069/9124

PROJECT NO. 7069/9124 PLAN NO. S1-7069/9124

PROPOSED FINISHED SURFACE @ S.D. C/L

PROPOSED FINISHED SURFACE @ S.D. C/L

PROPOSED FINISHED SURFACE @ S.D. C/L

1280

1270

1270

1270

1270

1260

1260

1260

1260

1250

1250

1250

1250

LAT "A-1" LAT "A-2"
(SEE PLAN ON SHEET 14)

LAT "A-3"
(SEE PLAN ON SHEET 14)

LAT "A-4" LAT "A-5"
(SEE PLAN ON SHEET 15)

1+00 0+00 1+00

0+00 1+00

1+00 0+00 1+00

PROPOSED FINISHED SURFACE @ S.D. C/L

PROPOSED FINISHED SURFACE @ S.D. C/L

PROPOSED FINISHED SURFACE @ S.D. C/L

EXISTING FINISHED SURFACE @ S.D. C/L

* CAUTION !! CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS SPECIFIED TO BE REMOVED OR ABANDONED.

HYDRAULIC DATA
Q10 = 16.2 cfs.
VMAX = 3.3 fps

HYDRAULIC DATA
Q10 = 16.9 cfs.
VMAX = 1.7 fps

HYDRAULIC DATA
Q10 = 32.4 cfs.
VMAX = 4.6 fps

HYDRAULIC DATA
Q10 = 16.2 cfs.
VMAX = 3.3 fps

LAT "A-6"
(SEE PLAN ON SHEET 15)

CP "A-1"
(SEE PLAN ON SHEET 15)

LAT "A-7"
(SEE PLAN ON SHEET 15)

CONSTRUCTION NOTE

- 18) CONSTRUCT CONCRETE COLLAR PER S.P.P.W.C. STD. PLAN 380-4.
- 20) CONSTRUCT PIPE ANCHOR AND BACKFILL STABILIZERS PER S.P.P.W.C. STD. PLAN 221-2.

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

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MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

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REGISTERED PROFESSIONAL ENGINEER

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No. 41679
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CIVIL
STATE OF CALIFORNIA

DRAWN BY: RVB
DESIGNED BY: LVB
CHECKED BY: CVA
RECOMMENDED BY:

APPROVED BY:

[Signature]
DIRECTOR OF PUBLIC WORKS
R.C.E. C56810 EXP. DATE 06-30-2023

RECOMMENDED BY:
[Signature]
CAPITAL IMPROVEMENTS MANAGER

RECOMMENDED BY:
DEVELOPMENT SERVICES

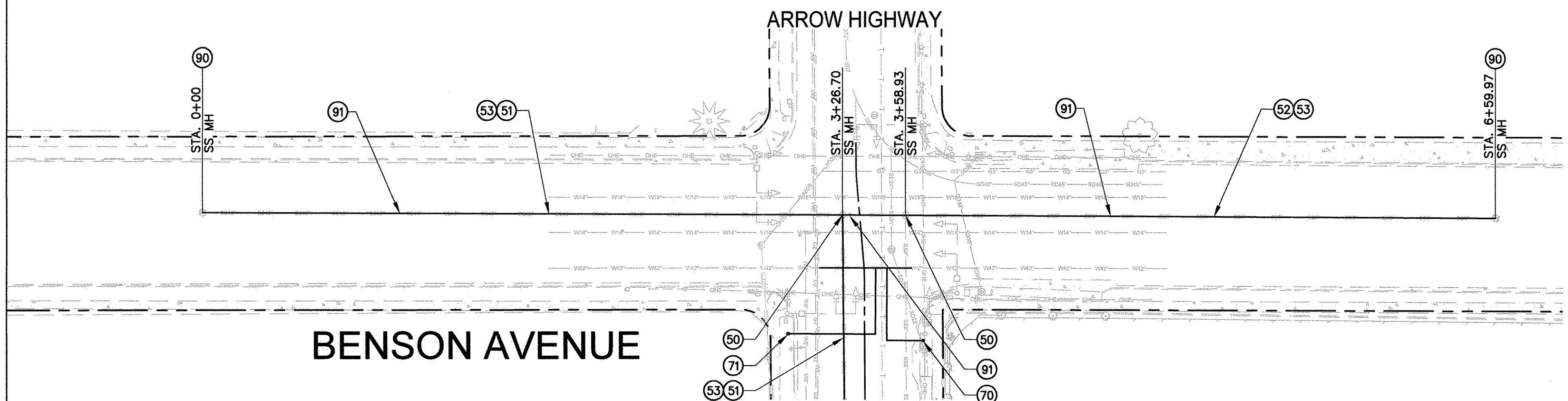
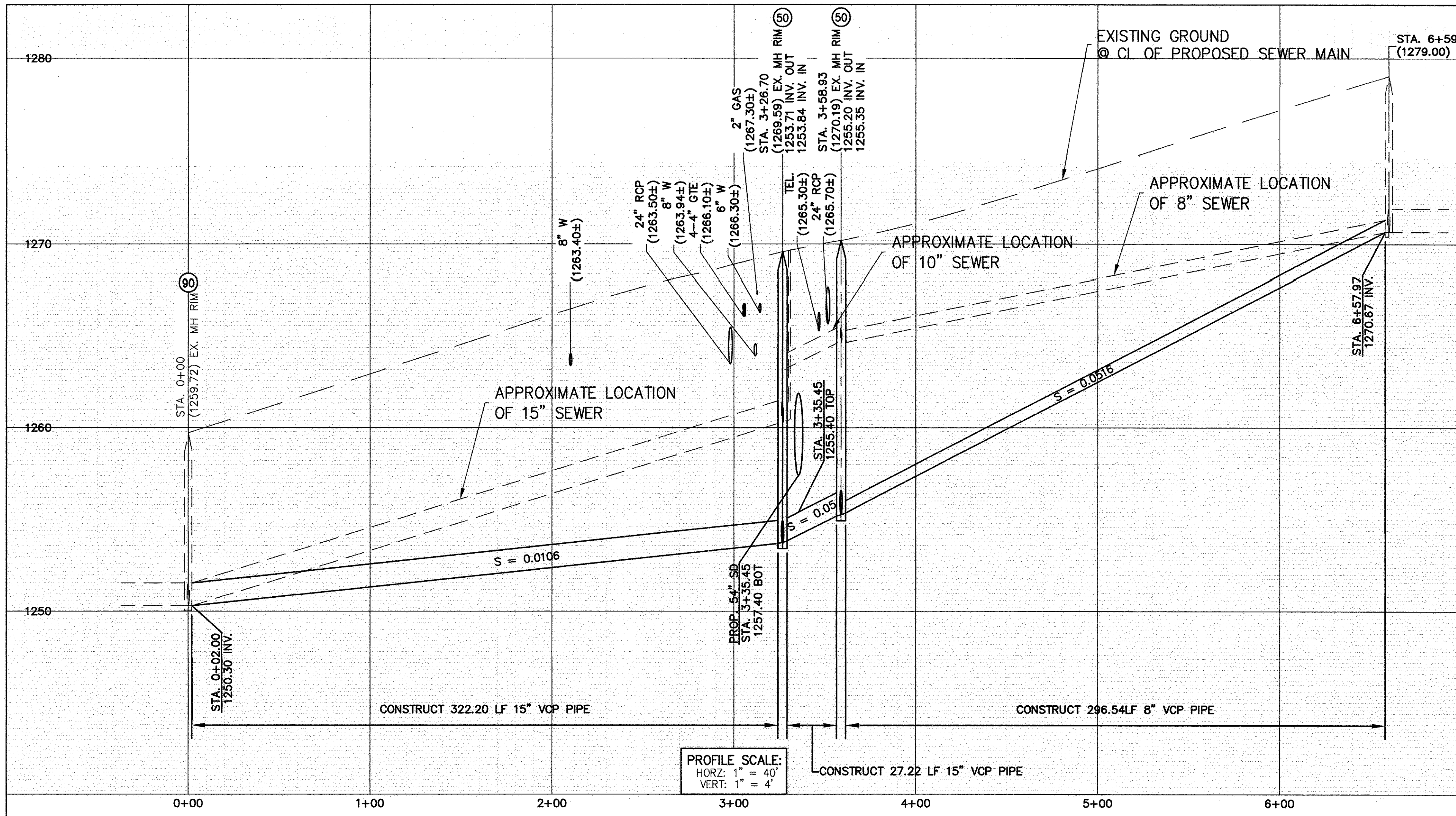
CITY OF UPLAND

PROJECT NO. 7069 & 9124: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

SHEET
16

OF 26 SHEETS
DRAWING NO.
-7069/9124

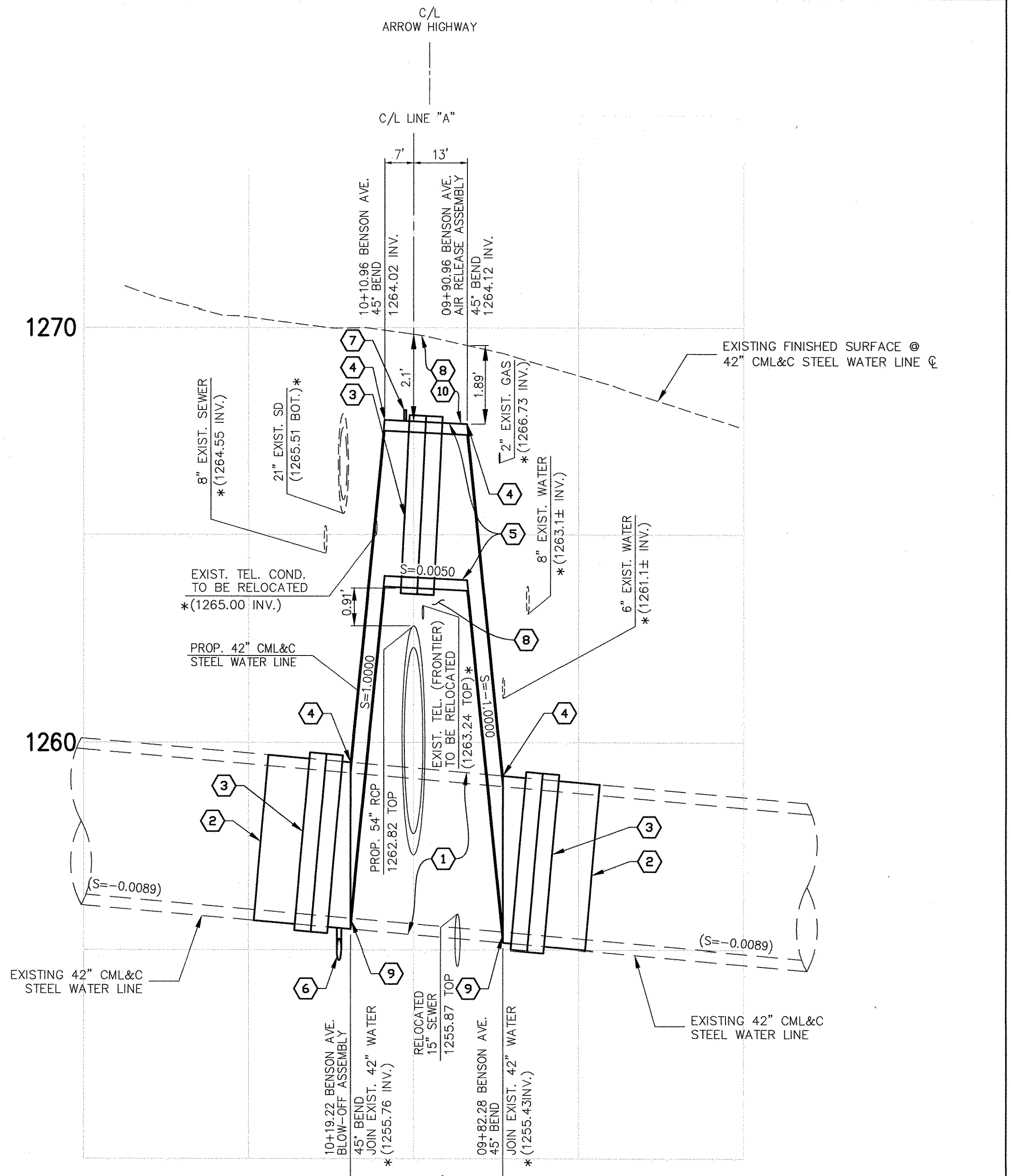
PLAN NO. SI-7069/9124



BENSON AVENUE

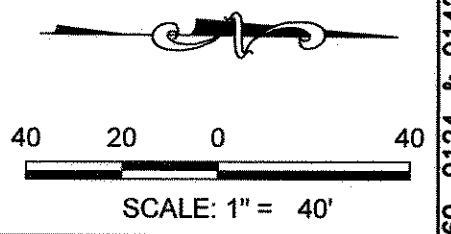
SEWER CONSTRUCTION NOTES

- 50—CONSTRUCT SEWER MANHOLE PER CITY OF UPLAND STD. CU-Z-1, TYPE A.
- 51—CONSTRUCT 15" VCP SEWER.
- 52—CONSTRUCT 8" VCP SEWER.
- 53—REMOVE AND REPLACE AC PAVEMENT PER CITY OF UPLAND STD. CU-Z-3.
- 54—CONSTRUCT SEWER CLEANOUT PER CITY OF UPLAND STD. CU-Z-4.
- 55—CONSTRUCT 6" VCP SEWER.
- 56—CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STD. NO. 222-2 (TYPE A OR B) AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE. CONTRACTOR MUST FIELD LOCATE AND RESTORE EXISTING SURFACE CONDITIONS.
- 70—BLOW OFF PER CITY OF UPLAND STD. PLAN NO. W.12
- 71—6" AIR-VACUUM PER CITY OF UPLAND STD. PLAN NO. W.13
- 90—PROTECT IN PLACE.
- 91—REMOVE ITEM PER PLAN.



- DETAIL NOTES**
- 1 CUT AND DISPOSE EXISTING PIPE
 - 2 WELD ON FLANGE FITTING
 - 3 SLIP-ON FLANGE
 - 4 WELD ON 45° ELL
 - 5 42" CML&C
 - 6 BLOW OFF PER CITY OF UPLAND STD. PLAN NO. W.12
 - 7 6" AIR-VACUUM PER CITY OF UPLAND STANDARD PLAN NO. W.13
 - 8 2 SACK SLURRY TRENCH BACKFILL
 - 9 THRUST BLOCK AND FITTINGS
 - 10 AC PAVEMENT REPAIR PER PLAN

* CAUTION !! CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS SPECIFIED TO BE REMOVED OR ABANDONED.



811 DIGALERT
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REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

Plan Prepared By: *[Signature]*
KOA
 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL: REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPHAN, JR.
 No. C50481
 CIVIL
 STATE OF CALIFORNIA

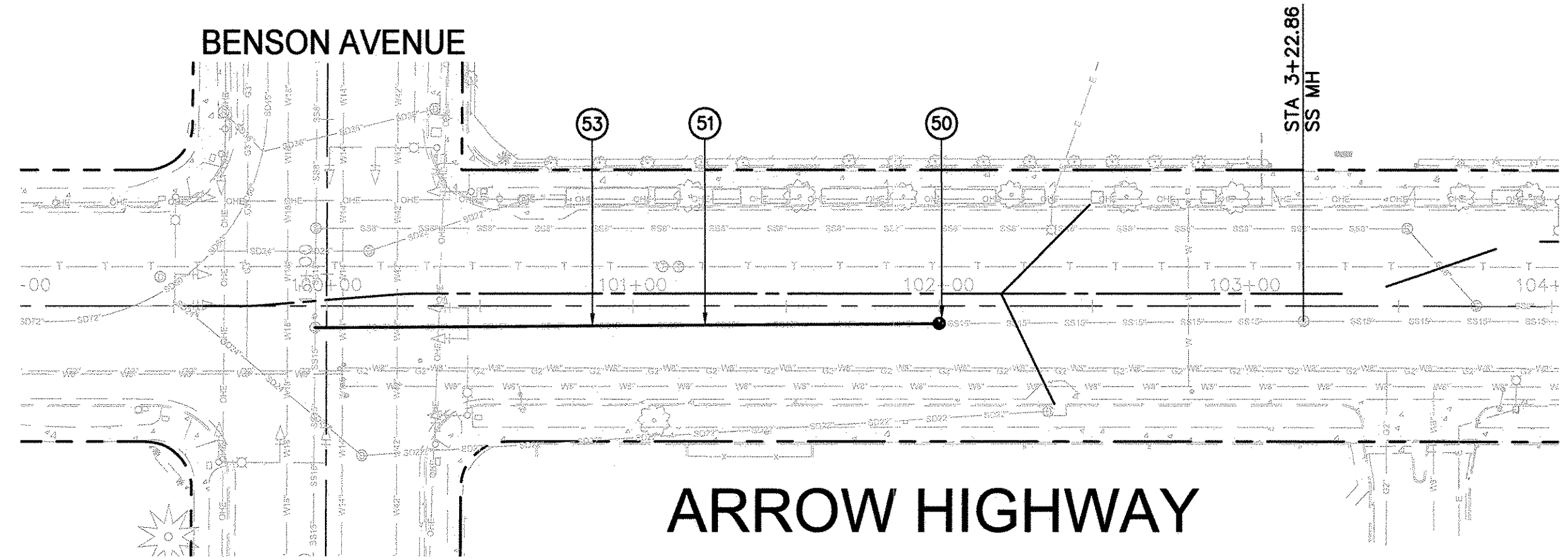
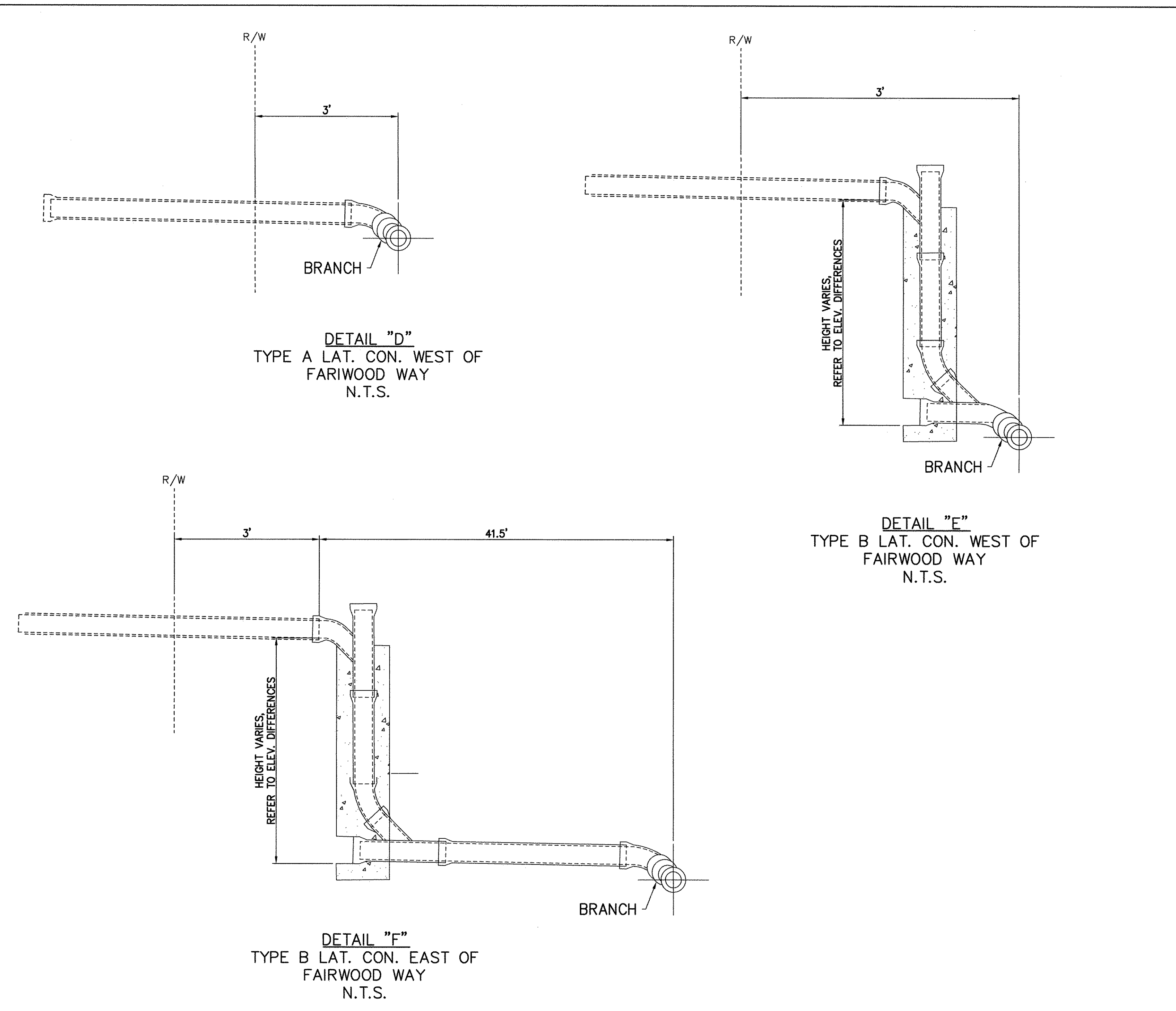
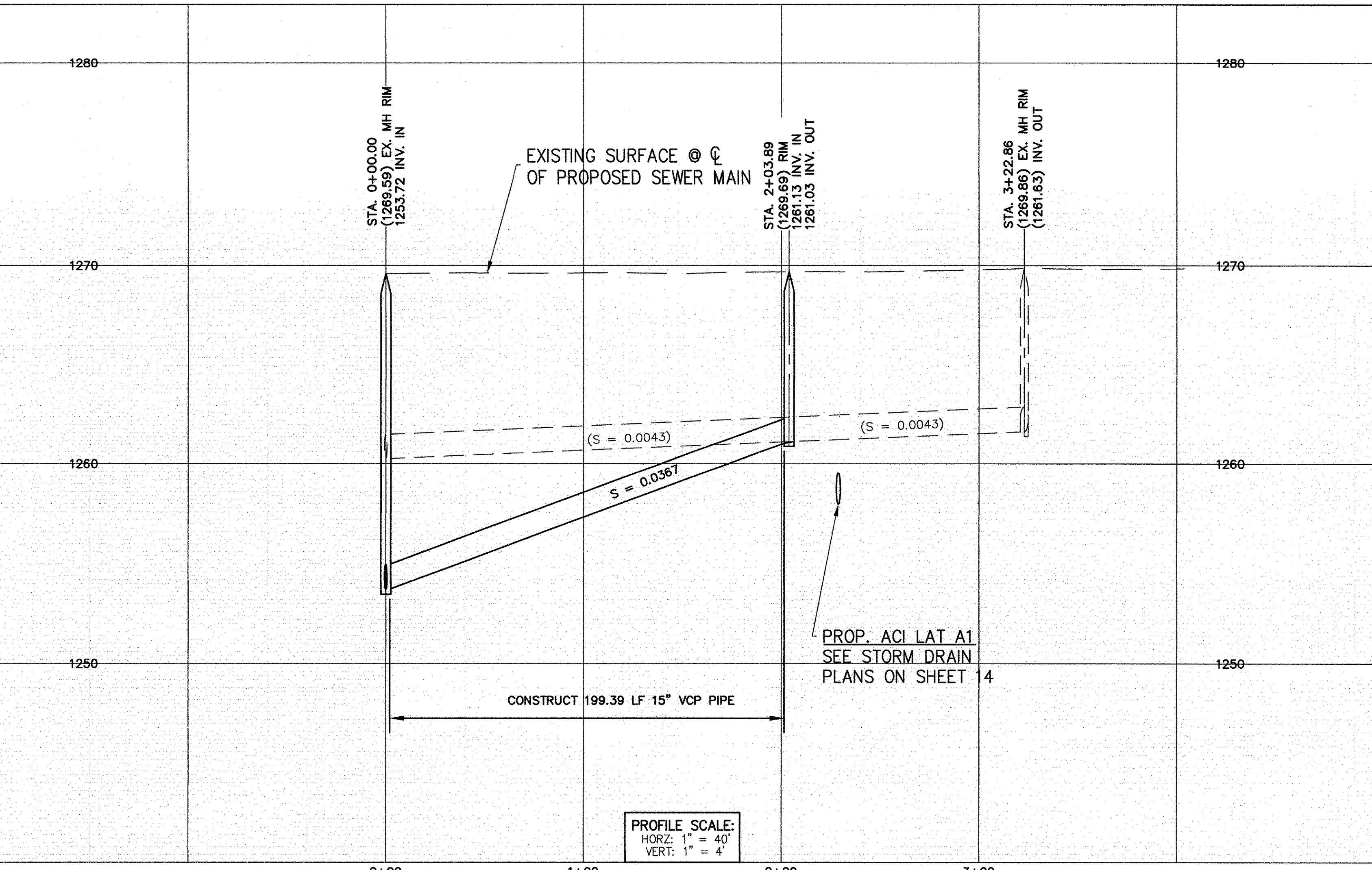
DRAWN BY: KT
 DESIGNED BY: AA
 CHECKED BY: HG
 RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER

APPROVED BY: *[Signature]*
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024
 DATE: 5-10-23
 RECOMMENDED BY: *[Signature]*
 DEVELOPMENT SERVICES

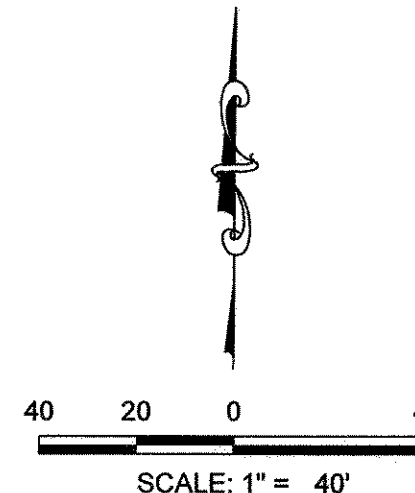
CITY OF UPLAND
 PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
 UTILITY IMPROVEMENT PLANS
 8" AND 15" SEWER

SHEET 17
 OF 26 SHEETS
 DRAWING NO. 7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



- SEWER CONSTRUCTION NOTES**
- 50—CONSTRUCT SEWER MANHOLE PER CITY OF UPLAND STD. CU-Z-1, TYPE A.
 - 51—CONSTRUCT 15" VCP SEWER.
 - 52—CONSTRUCT 8" VCP SEWER.
 - 53—REMOVE AND REPLACE AC PAVEMENT PER CITY OF UPLAND STD. CU-Z-3.
 - 54—CONSTRUCT SEWER CLEANOUT PER CITY OF UPLAND STD. CU-Z-4.
 - 55—CONSTRUCT 6" VCP SEWER.
 - 56—CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STD. NO. 222-2 (TYPE A OR B) AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE. CONTRACTOR MUST FIELD LOCATE AND RESTORE EXISTING SURFACE CONDITIONS.



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REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'D

Plan Prepared By:

[Signature]
5/10/23
Date

KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9623 Fax: (909) 890-9694

SEAL:

REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPHAN, SR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY:

APPROVED BY: *[Signature]*
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

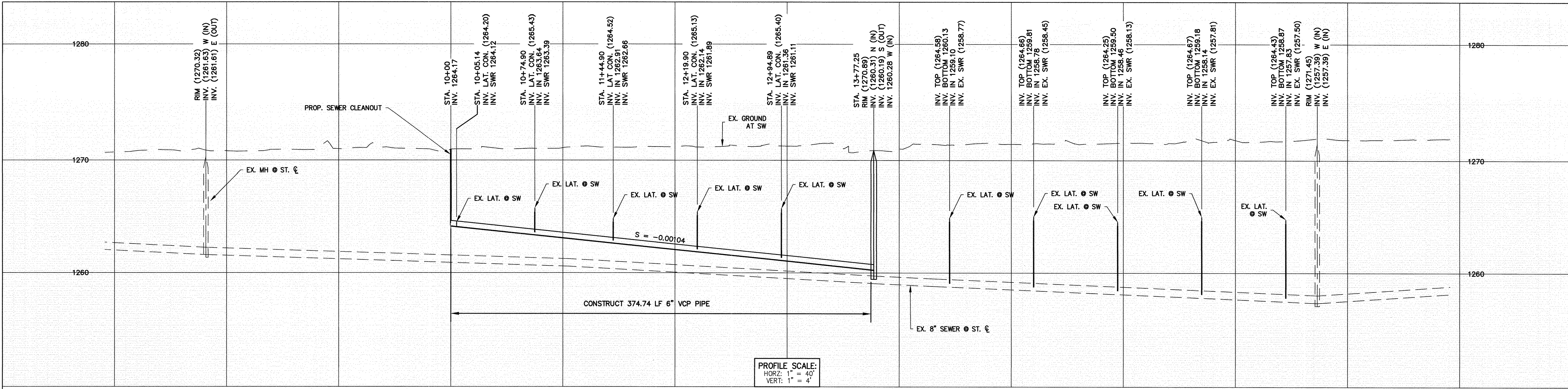
RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

5-10-23
DATE

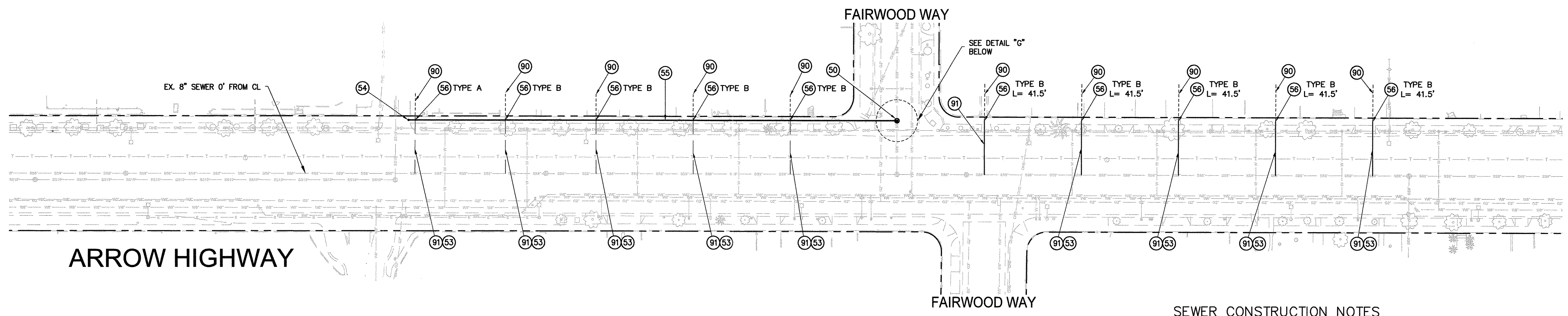
CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS UTILITY IMPROVEMENT PLANS 15" SEWER

SHEET
18
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

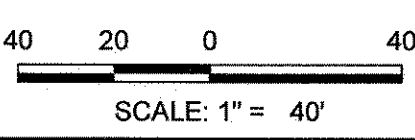
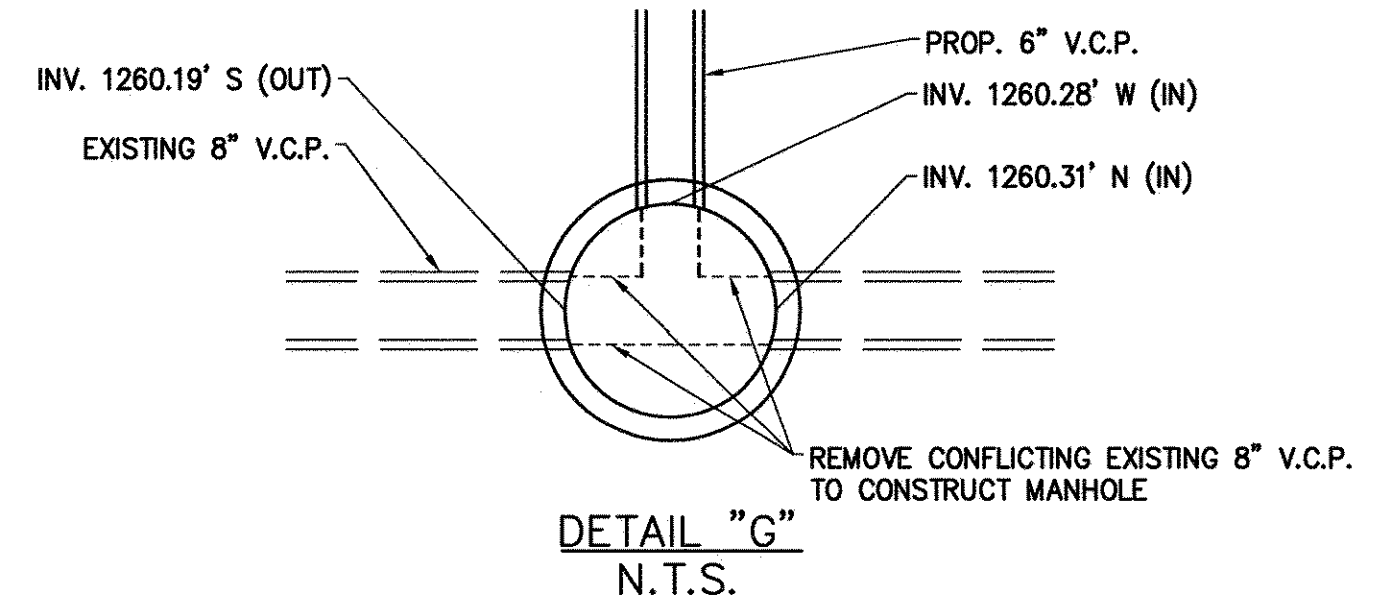


PROFILE SCALE:
 HORZ: 1" = 40'
 VERT: 1" = 4'



SEWER CONSTRUCTION NOTES

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- 52—CONSTRUCT 8" VCP SEWER.
- 53—REMOVE AND REPLACE AC PAVEMENT PER CITY OF UPLAND STD. CU-2-3.
- 54—CONSTRUCT SEWER CLEANOUT PER CITY OF UPLAND STD. CU-2-4.
- 55—CONSTRUCT 6" VCP SEWER.
- 56—CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STD. NO. 222-2 (TYPE A OR B) AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE. CONTRACTOR MUST FIELD LOCATE AND RESTORE EXISTING SURFACE CONDITIONS.
- 90—PROTECT IN PLACE.
- 91—REMOVE ITEM PER PLAN.



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REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APPVD

Plan Prepared By:

 Date: 5/10/03

KOA
 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:

 REGISTERED PROFESSIONAL ENGINEER
 CHARLES F. STEFFY, JR.
 No. C50481
 CIVIL
 STATE OF CALIFORNIA

DRAWN BY: KT
 DESIGNED BY: MA
 CHECKED BY: HG
 RECOMMENDED BY:

APPROVED BY:

 DATE: 5-10-23

DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY:

 CAPITAL IMPROVEMENTS MANAGER

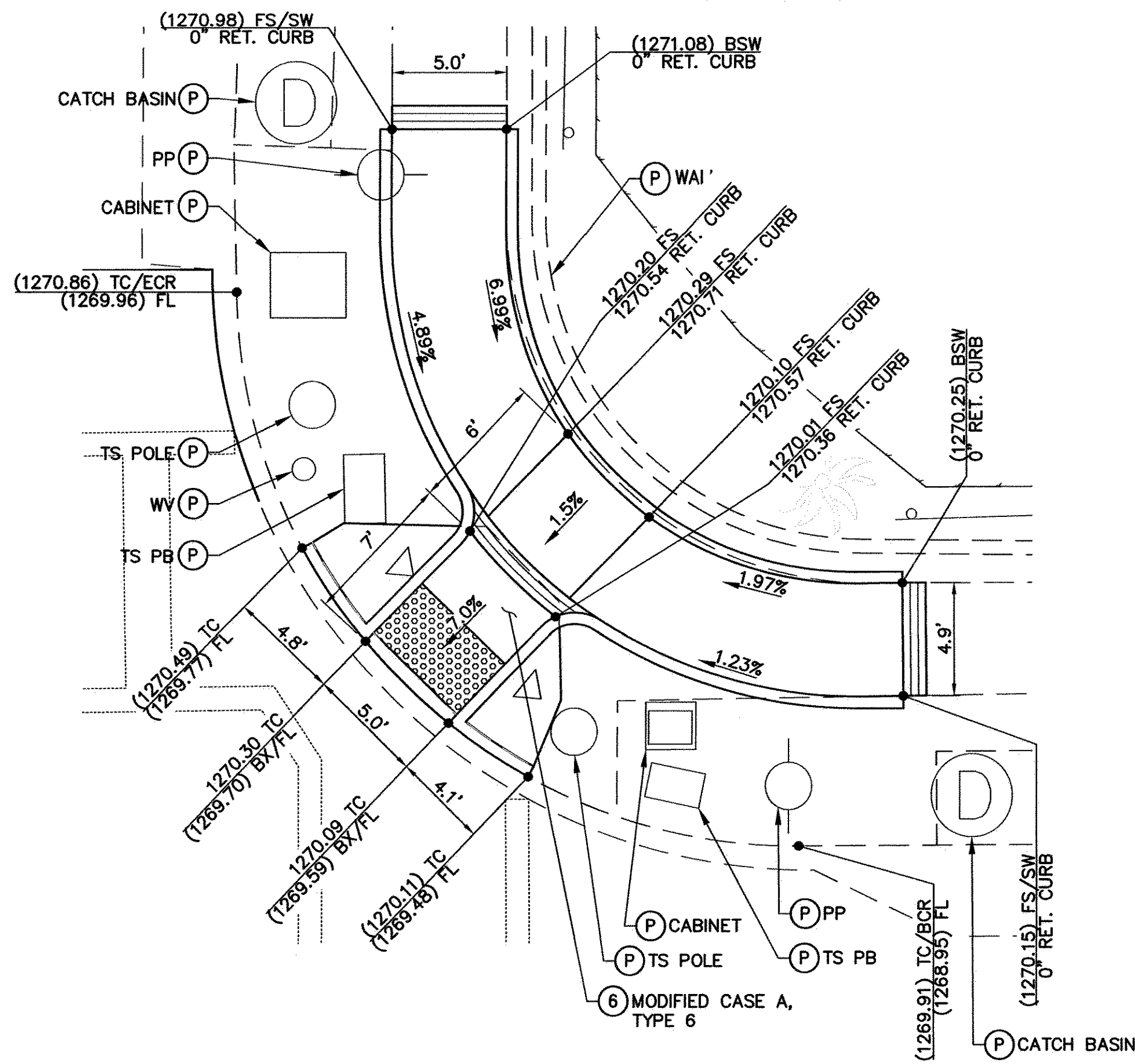
RECOMMENDED BY:
 DEVELOPMENT SERVICES

CITY OF UPLAND

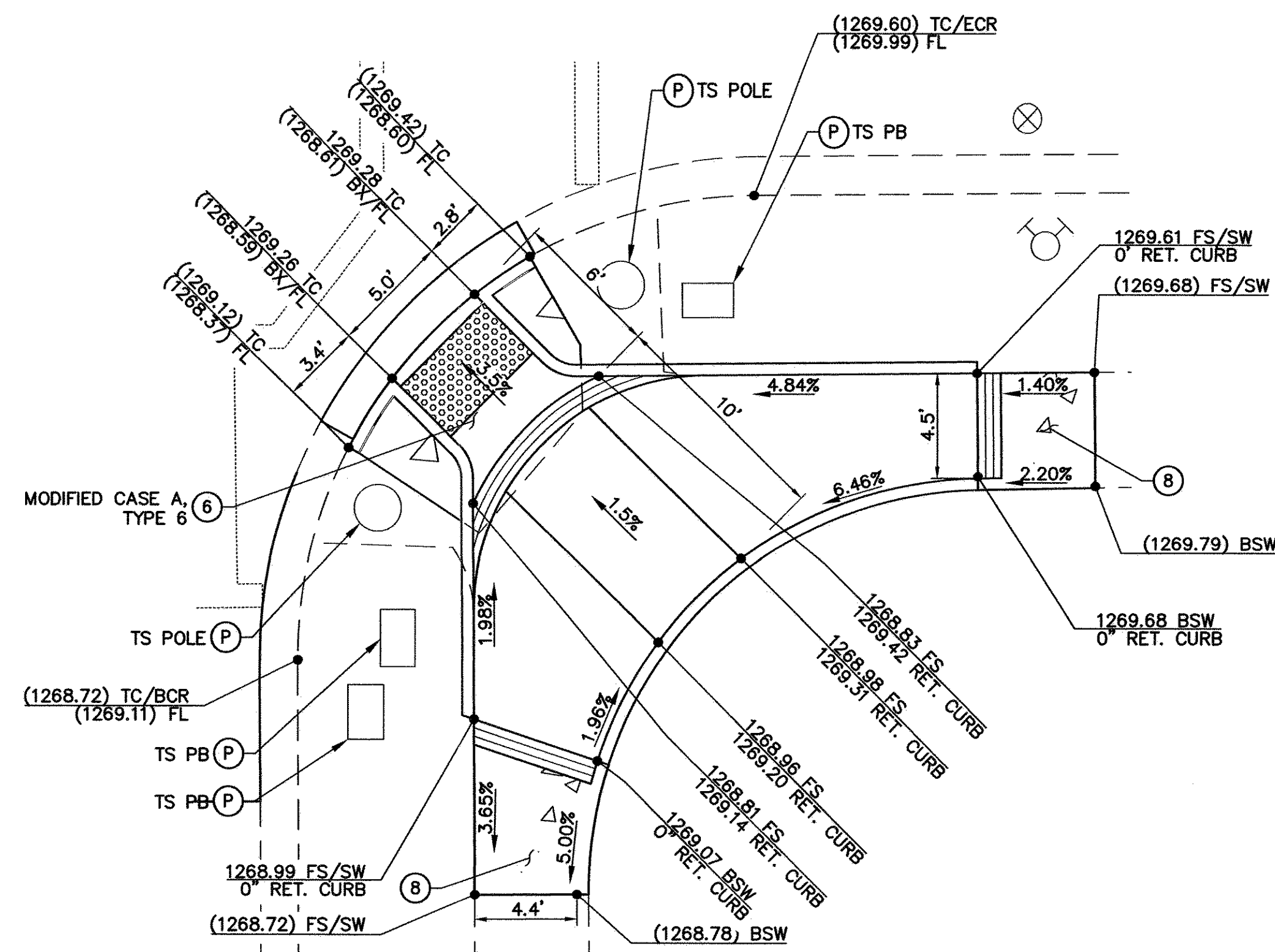
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
 UTILITY IMPROVEMENT PLANS
 6" SEWER

SHEET 19 OF 26 SHEETS
 DRAWING NO. -7069, 9124, & 9142

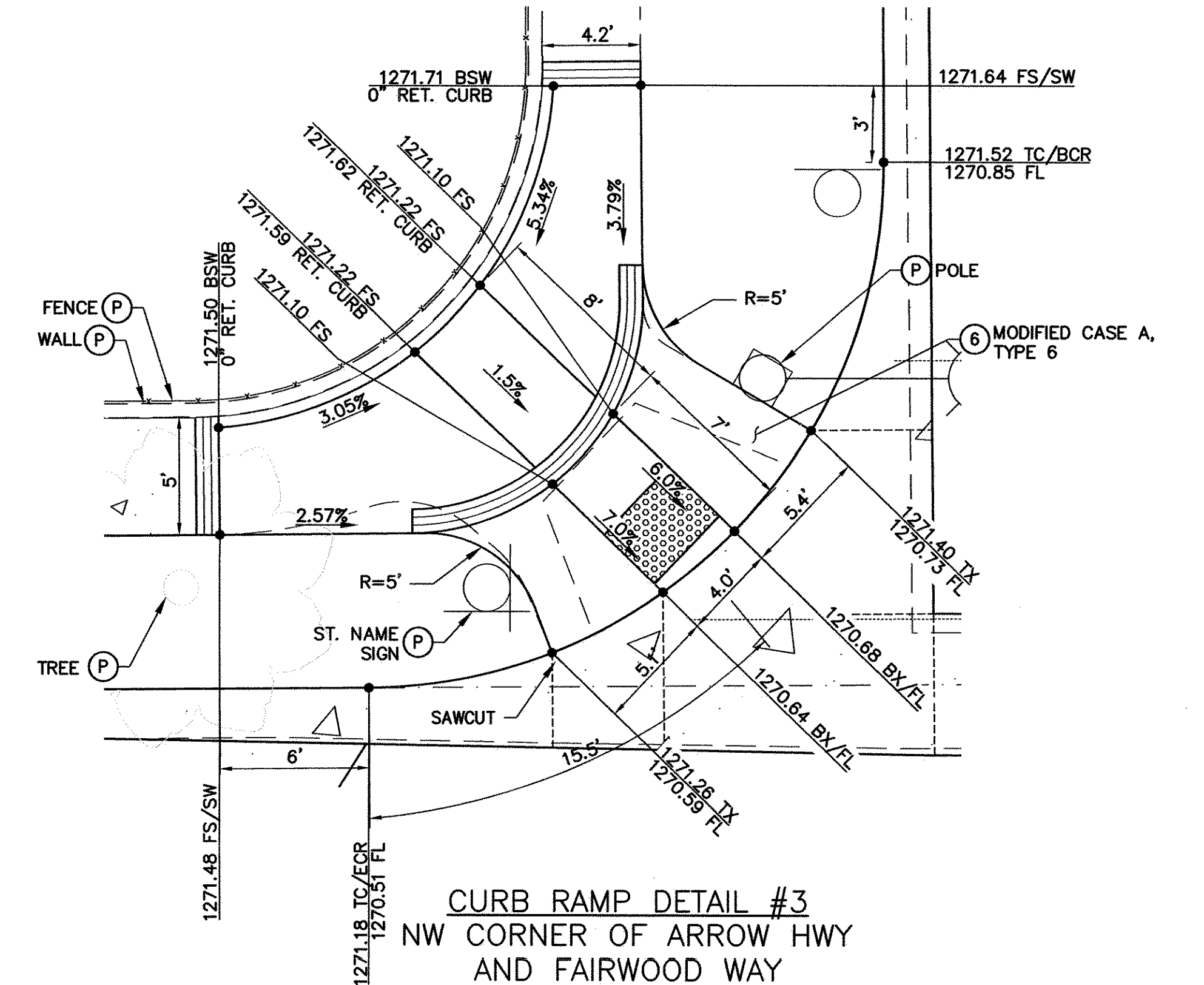
PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



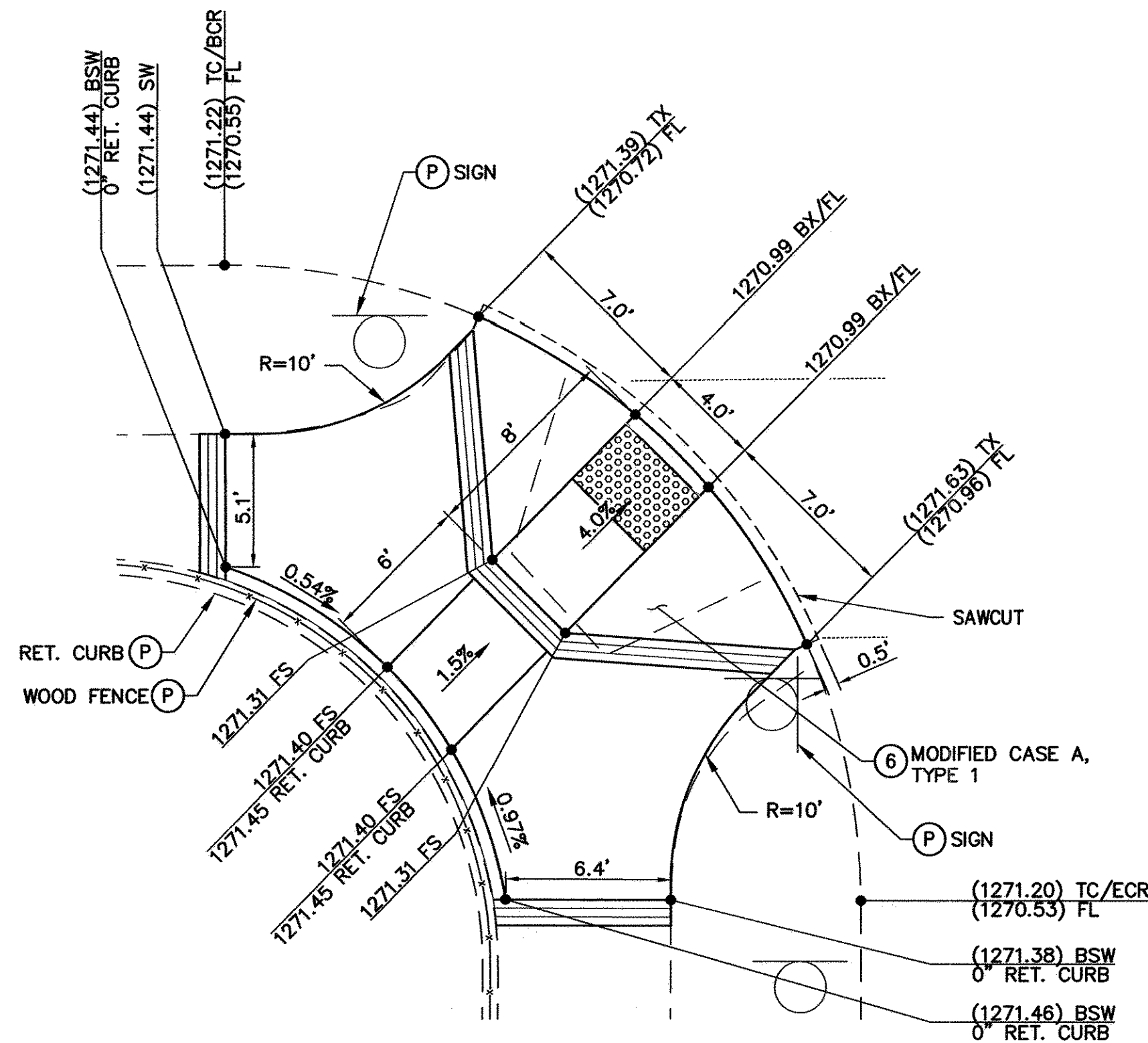
CURB RAMP DETAIL #1
NE CORNER OF ARROW HWY
AND BENSON AVE



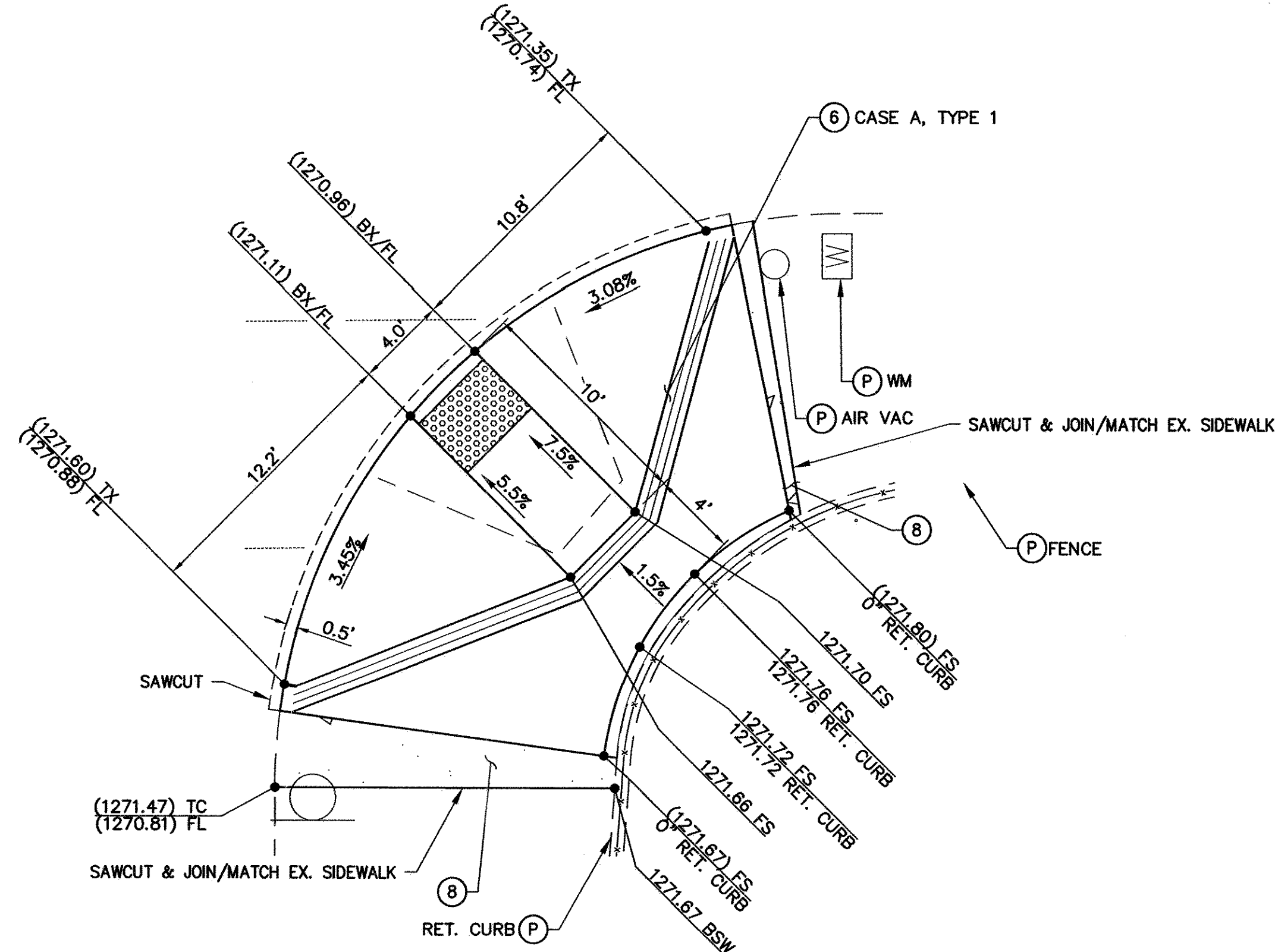
CURB RAMP DETAIL #2
SE CORNER OF ARROW HWY
AND BENSON AVE



CURB RAMP DETAIL #3
NW CORNER OF ARROW HWY
AND FAIRWOOD WAY



CURB RAMP DETAIL #4
SW CORNER OF ARROW HWY
AND FAIRWOOD WAY

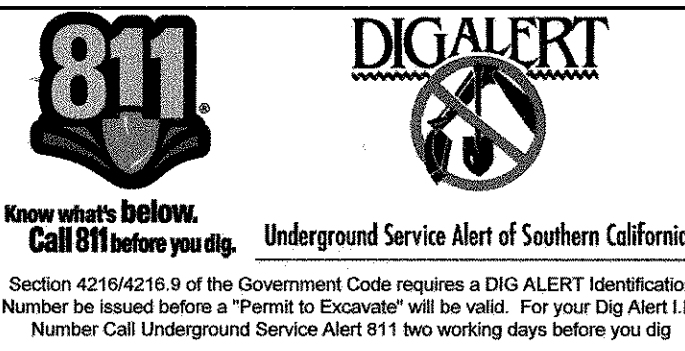


CURB RAMP DETAIL #5
SE CORNER OF ARROW HWY
AND FAIRWOOD WAY

CONSTRUCTION NOTES

- ⑥—CONSTRUCT CONCRETE CURB RAMP INCLUDING PCC GUTTER PER SPPWC STD. PLAN NO. 111-5, TYPE AND CASE PER PLAN OVER 90% COMPACTED NATIVE, INCLUDING WET SET TRUNCATED DOME MAT COLOR YELLOW.
- ⑧—CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
- (P)—PROTECT

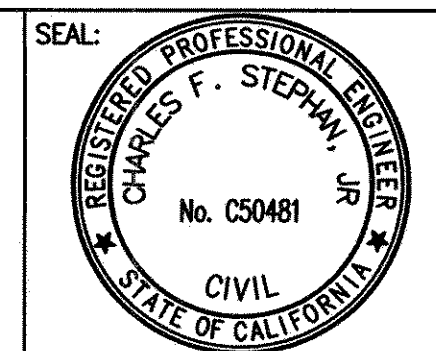
SCALE: 1" = 5'



REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]*

 3190 C. Shelby Street
 Ontario, California 91764
 Tel: (909) 890-9693 Fax: (909) 890-9694



DRAWN BY: KT
 DESIGNED BY: AM
 CHECKED BY: HG
 RECOMMENDED BY: *[Signature]*
 CAPITAL IMPROVEMENTS MANAGER

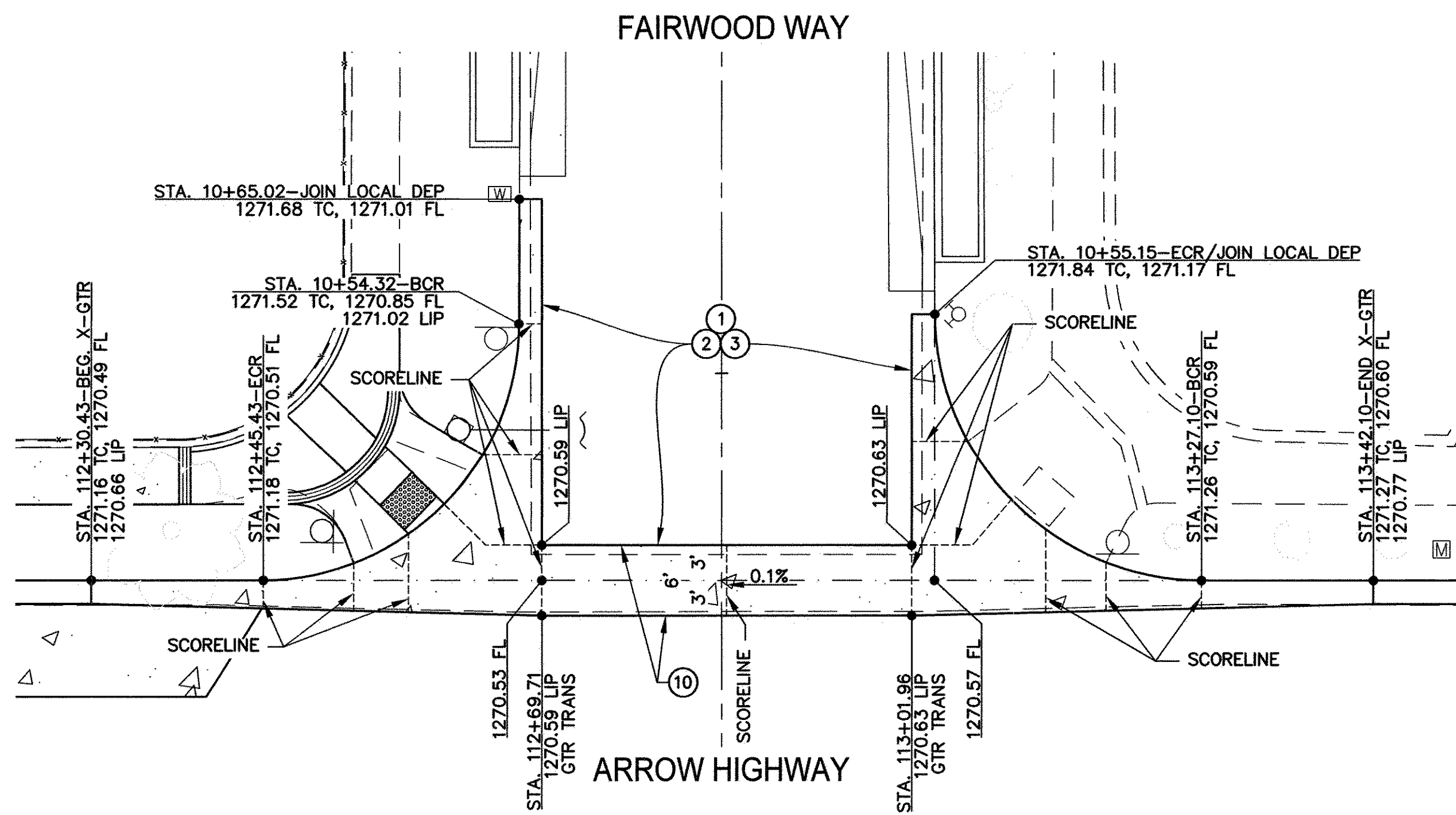
APPROVED BY: *[Signature]*
 DIRECTOR OF PUBLIC WORKS
 R.C.E. C56306 EXP. DATE 12-31-2024
 RECOMMENDED BY: *[Signature]*
 DEVELOPMENT SERVICES

DATE: 5.10.23

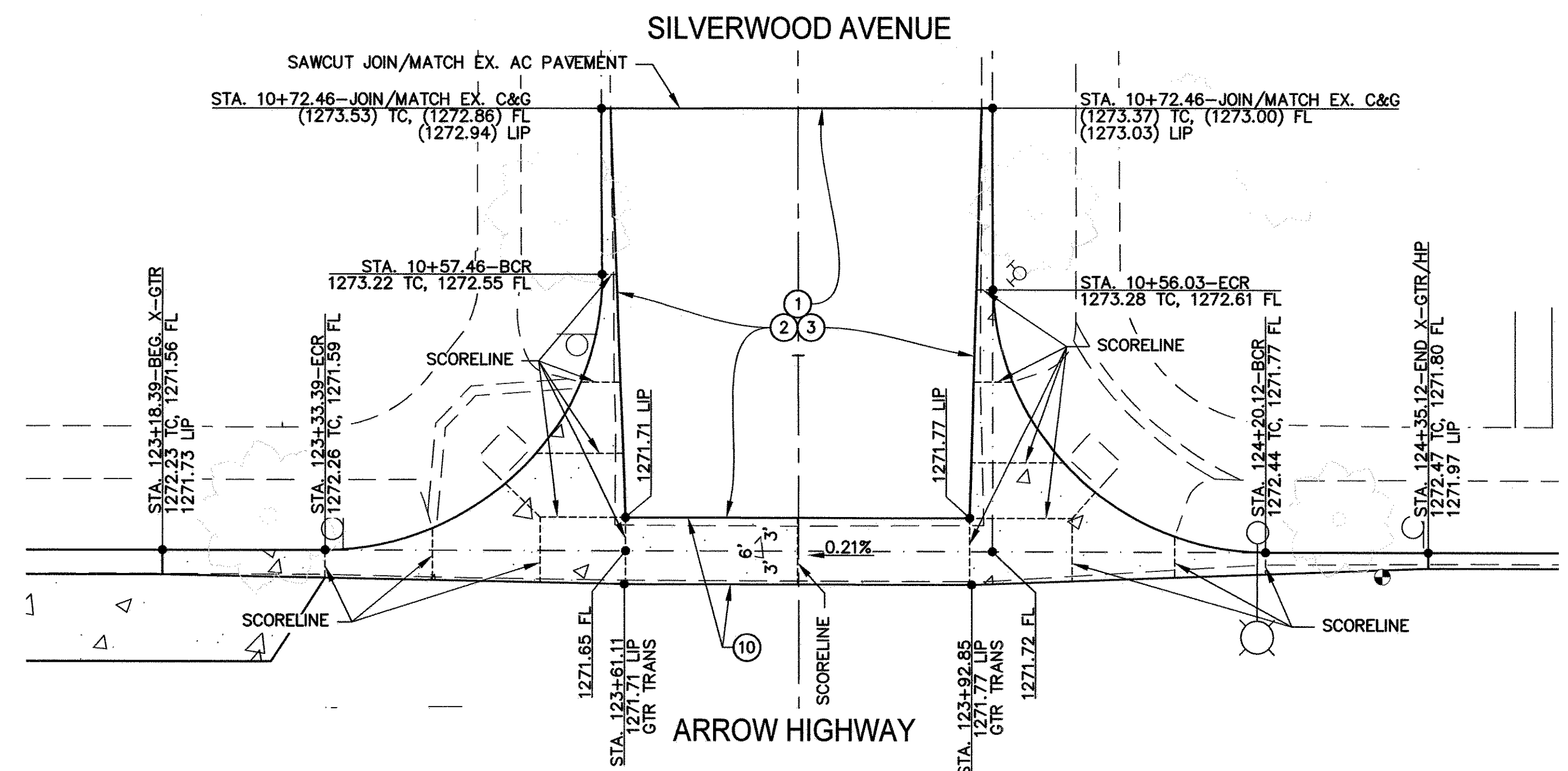
CITY OF UPLAND
 PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT
 REHABILITATION AND UTILITY IMPROVEMENTS
 CURB RAMP DETAIL SHEET

SHEET
20
 OF 26 SHEETS
 DRAWING NO.
 -7069, 9124, & 9142

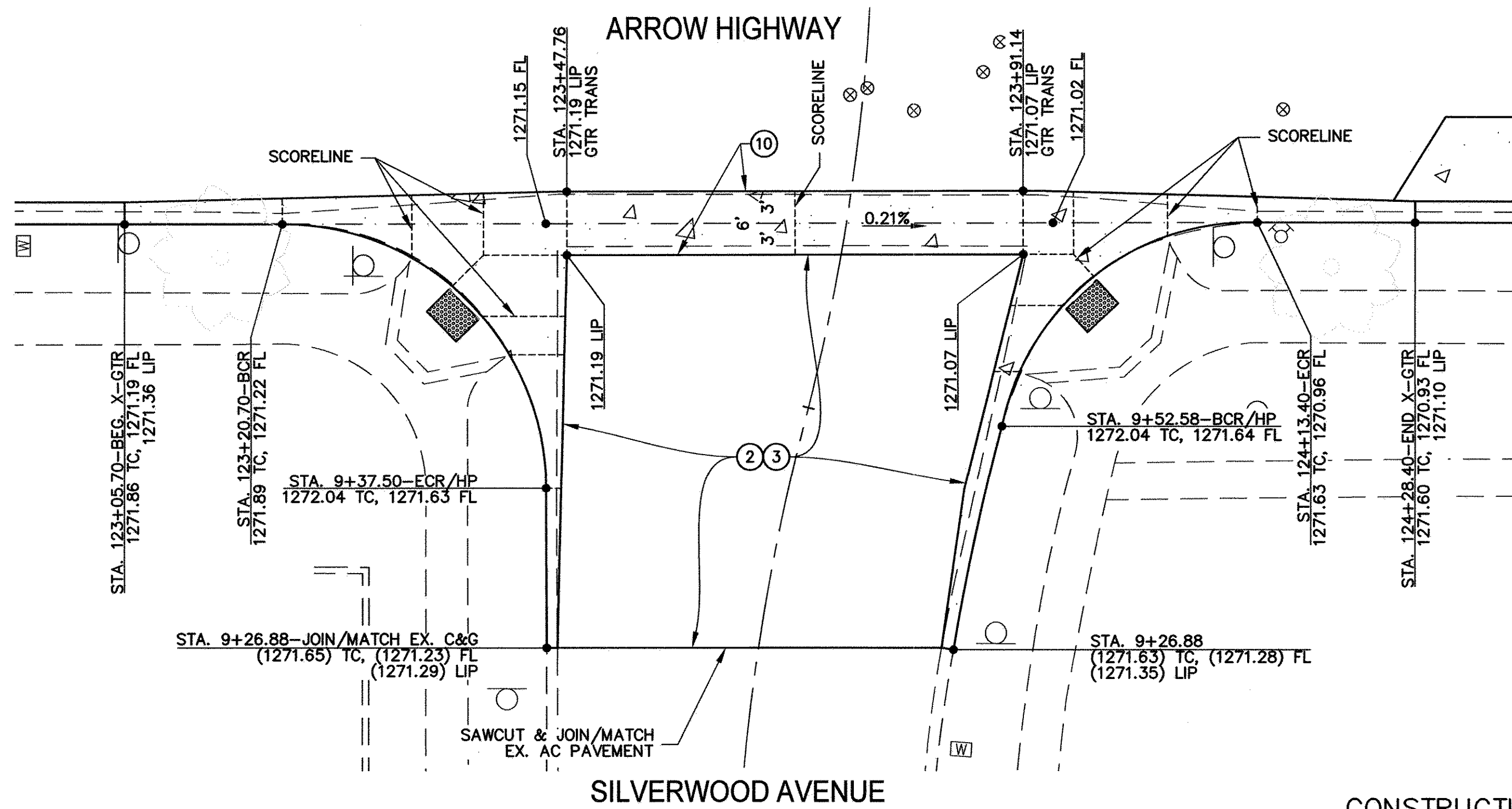
PROJECT NO. 7069, 9124 & 9142 PLAN NO. SI-7069, 9124 & 9142



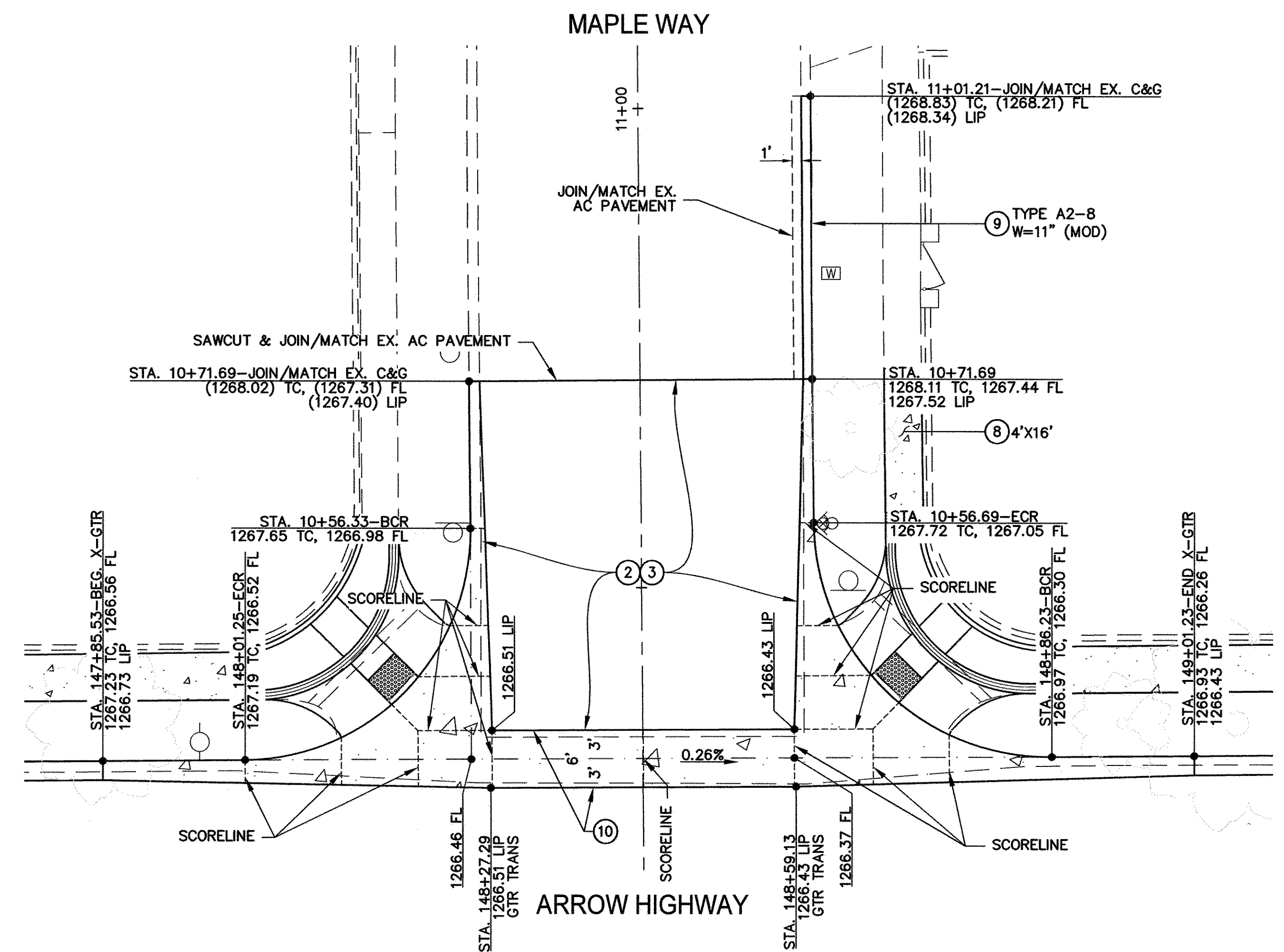
CROSS GUTTER DETAIL
ARROW HWY AND FAIRWOOD WAY
SCALE 1"=10'



CROSS GUTTER DETAIL
ARROW HWY AND SILVERWOOD AVENUE
SCALE 1"=10'



CROSS GUTTER DETAIL
ARROW HWY AND SILVERWOOD AVENUE
SCALE 1"=10'



CROSS GUTTER DETAIL
ARROW HWY AND MAPLE WAY
SCALE 1"=10'

CONSTRUCTION NOTES

- ① CONSTRUCT 6-INCH THICK CAB OVER 95% COMPACTED NATIVE.
- ② CONSTRUCT 4-INCH THICK ASPHALT BASE COURSE (PG-64-10-B).
- ③ CONSTRUCT 2-INCH THICK ASPHALT RUBBER HOT MIX.
- ④ CONSTRUCT 4-INCH THICK PCC SIDEWALK OVER 90% COMPACTED NATIVE PER SPPWC STD. PLAN NO. 112-2.
- ⑤ CONSTRUCT CURB AND GUTTER PER SPPWC STD. PLAN NO. 120-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE, TYPE PER PLAN.
- ⑩ REMOVE AND RECONSTRUCT PCC CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2, INCLUDING 95% COMPACTED CRUSHED AGG. BASE.

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REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	APP'VD

Plan Prepared By: *[Signature]* 5/10/03
Date

KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL: **REGISTERED PROFESSIONAL ENGINEER**
CHARLES F. STEPHAN, JR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]* 5-10-03
DATE

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS
CROSS GUTTER DETAIL SHEET

SHEET
23
OF 26 SHEETS
DRAWING NO.
-7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



ARROW HIGHWAY

ARROW HIGHWAY

SEE ABOVE RIGHT
MATCHLINE STA. 112+00

MATCHLINE STA. 112+00
SEE BELOW LEFT

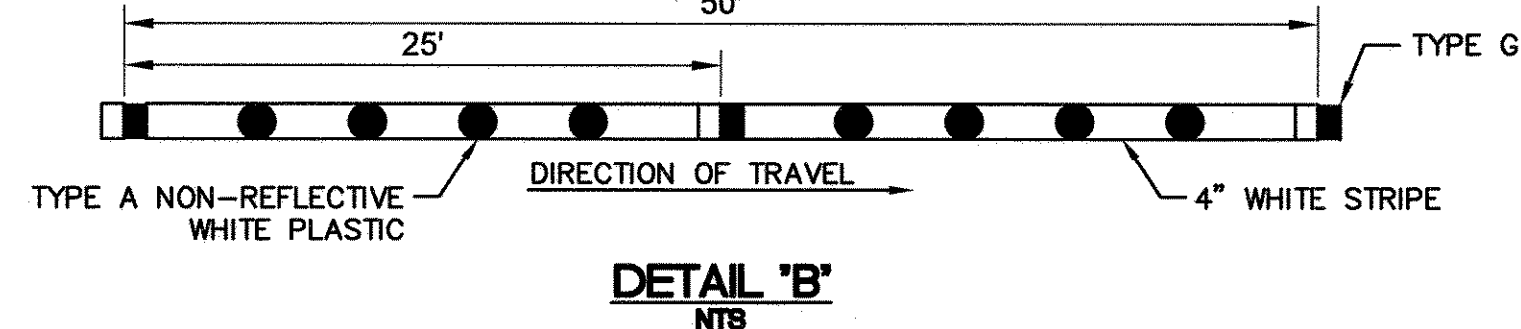
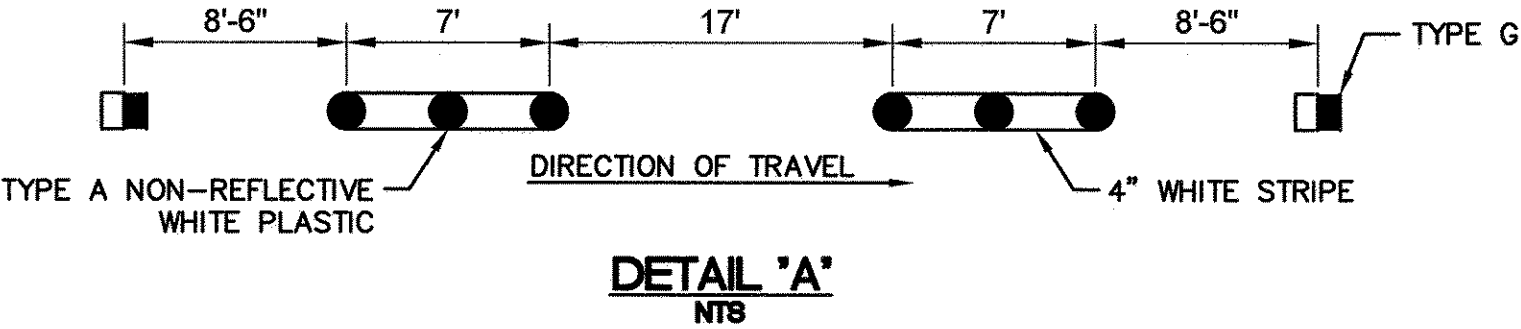
MATCHLINE STA. 125+00
SEE SHEET 19

SIGNING AND STRIPING NOTES

- 1-PROTECT EXISTING STRIPING/LEGEND IN PLACE.
- 2-REMOVE STRIPING AND MARKING BY WET SANDBLASTING.
- 3-INSTALL 4-INCH WHITE LANE LINE PER DETAIL "A" HERE ON.
- 4-INSTALL 4-INCH DOUBLE YELLOW PER CALTRANS STD. PLAN NO. A20A, DETAIL 22.
- 5-INSTALL 4-INCH TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN NO. A20B, DETAIL 32.
- 6-INSTALL 8-INCH SOLID WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN NO. A20D, DETAIL 38.
- 7-INSTALL PAVEMENT MARKINGS PER CALTRANS STD. PLAN NO. A24A TO A24E. MARKINGS PER PLAN.
- 8-INSTALL 12-INCH WIDE CROSSWALK PER CALTRANS STD. PLAN NO. A24F. TYPE AND COLOR PER PLAN.
- 9-INSTALL WHITE SOLID LANE LINE PER DETAIL "B" HERE ON.
- 10-INSTALL WHITE 12-INCH SOLID LIMIT LINE PER CALTRANS STD. PLAN A24E.
- 11-INSTALL 8-INCH LANE DROP AT INTERSECTION PER CALTRANS STD. PLAN NO. A20C, DETAIL 37B.
- 12-INSTALL ROAD SIGN AND POST AS SHOWN ON PLANS.
- 13-PAINT NEW OR EXISTING CURB. COLOR AND LENGTH PER PLAN.
- 14-INSTALL BLUE REFLECTORIZED PAVEMENT MARKERS (RPM) ACROSS FROM FIRE HYDRANTS PER UPLAND PUBLIC WATER DIVISION DRAWING NO. W.22.

SIGNING AND STRIPING GENERAL NOTES

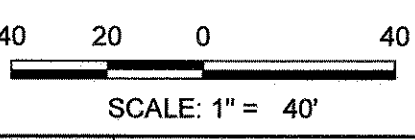
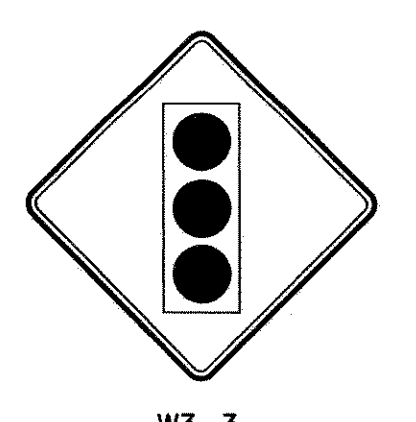
1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN SHALL BE INSTALLED WITH THERMOPLASTIC.
2. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHALL CONFORM TO 2015 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
3. ALL NEW SIGNING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
4. ALL CONFLICTING LINES AND MARKING SHALL BE REMOVED BY WET SANDBLASTING OR GRINDING (THEN PAINTED BLACK) AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
5. ALL LANE STRIPING AT INTERSECTION APPROACHES WITHOUT CROSSWALKS OR LIMIT LINES SHALL END 10 FEET FROM THE EXTENSION OF THE INTERSECTING CURB LINE.
6. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
7. EXISTING RAISED PAVEMENT MARKER DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AGENCY.
8. LOCATIONS OF PROPOSED SIGNS ARE SHOWN TO SCALE ON THE PLAN, UNLESS OTHERWISE NOTED.



LEGEND

REMOVE	EXISTING	PROPOSED	
			PAVEMENT MARKING
			ROADSIDE SIGN
			TRAFFIC STRIPE

SIGN LEGEND



811
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Underground Service Alert of Southern California

DIGALERT
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REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APPVD

Plan Prepared By: *[Signature]*
KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

Date: 5/10/08

SEAL: **REGISTERED PROFESSIONAL ENGINEER**
CHARLES F. STEPHAN, JR.
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: AA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

APPROVED BY: *[Signature]*
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]*
RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

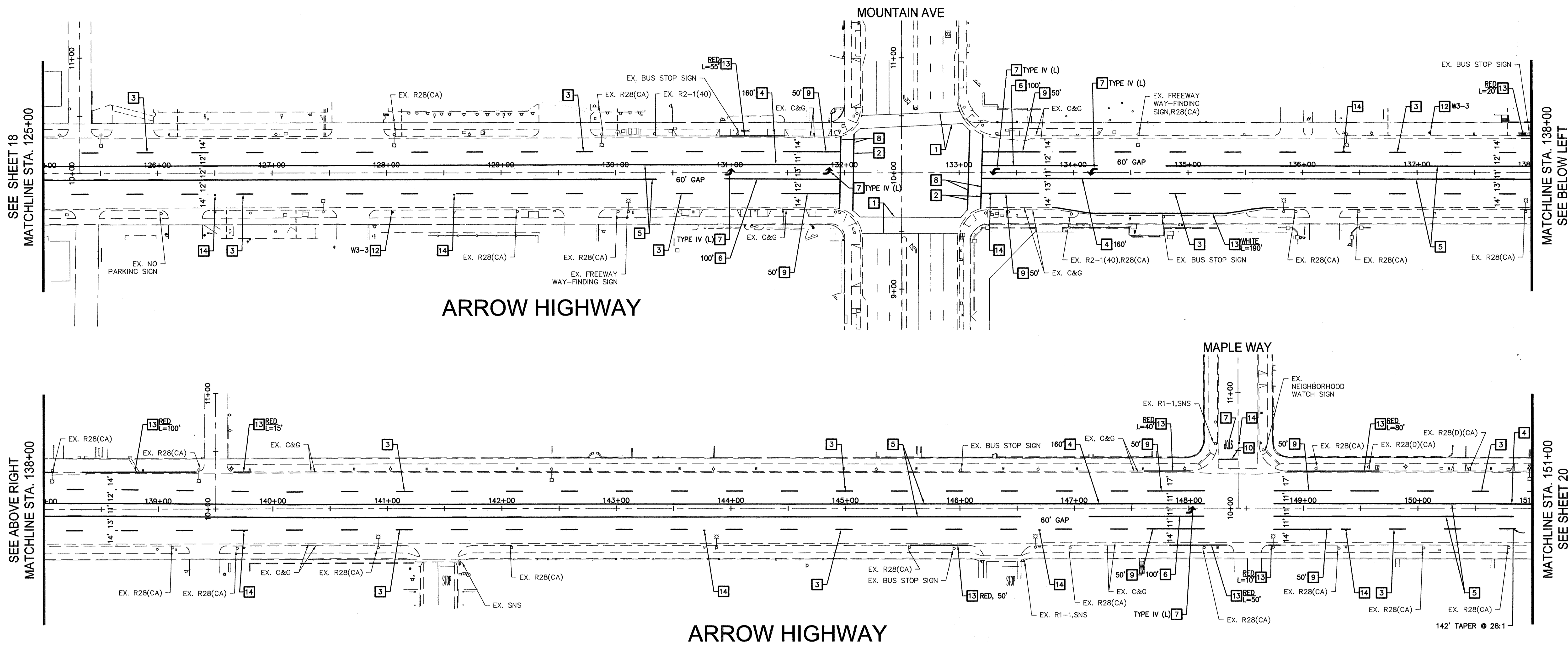
DATE: 5/10/08

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS SIGNING AND STRIPING PLANS STA 100+00 TO STA 125+00

SHEET **24**
OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142



SEE SHEET 18
MATCHLINE STA. 125+00

MATCHLINE STA. 138+00
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCHLINE STA. 138+00

MATCHLINE STA. 151+00
SEE SHEET 20

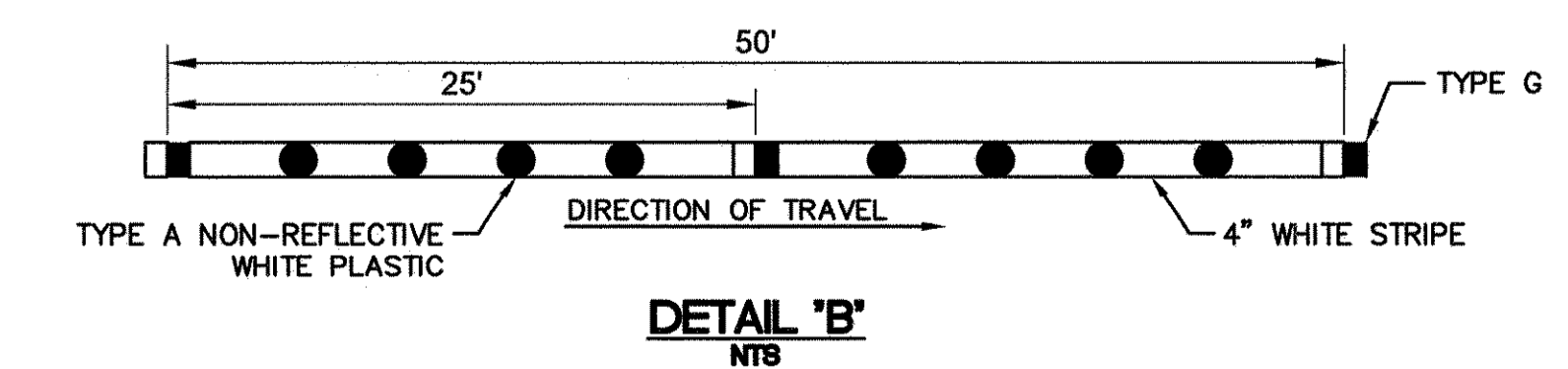
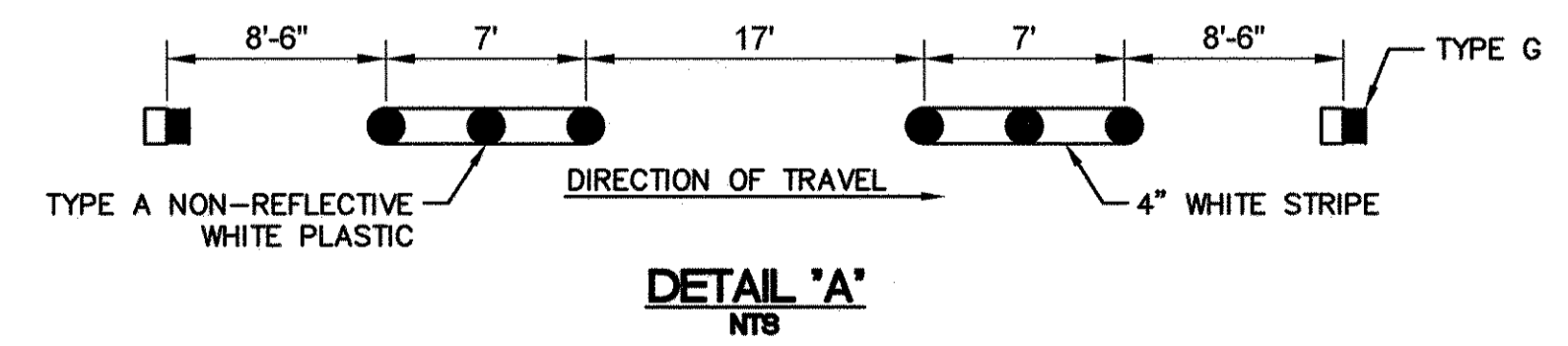
SIGNING AND STRIPING NOTES

- 1- PROTECT EXISTING STRIPING/LEGEND IN PLACE.
- 2- REMOVE STRIPING AND MARKING BY WET SANDBLASTING.
- 3- INSTALL 4-INCH WHITE LANE LINE PER DETAIL "A" HERE ON.
- 4- INSTALL 4-INCH DOUBLE YELLOW PER CALTRANS STD. PLAN NO. A20A, DETAIL 22.
- 5- INSTALL 4-INCH TWO-WAY LEFT TURN LANES PER CALTRANS STD. PLAN NO. A20B, DETAIL 32.
- 6- INSTALL 8-INCH SOLID WHITE CHANNELIZING LINE PER CALTRANS STD. PLAN NO. A20D, DETAIL 38.
- 7- INSTALL PAVEMENT MARKINGS PER CALTRANS STD. PLAN NO. A24A TO A24E. MARKINGS PER PLAN.

- 8- INSTALL 12-INCH WIDE CROSSWALK PER CALTRANS STD. PLAN NO. A24F. TYPE AND COLOR PER PLAN.
- 9- INSTALL WHITE SOLID LANE LINE PER DETAIL "B" HERE ON.
- 10- INSTALL WHITE 12-INCH SOLID LIMIT LINE PER CALTRANS STD. PLAN A24E.
- 11- INSTALL 8-INCH LANE DROP AT INTERSECTION PER CALTRANS STD. PLAN NO. A20C, DETAIL 37B.
- 12- INSTALL ROAD SIGN AND POST AS SHOWN ON PLANS.
- 13- PAINT NEW OR EXISTING CURB. COLOR AND LENGTH PER PLAN.
- 14- INSTALL BLUE REFLECTORIZED PAVEMENT MARKERS (RPM) ACROSS FROM FIRE HYDRANTS PER UPLAND PUBLIC WATER DIVISION DRAWING NO. W.22.

SIGNING AND STRIPING GENERAL NOTES

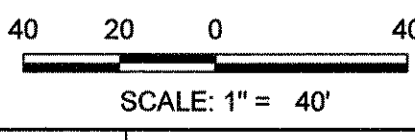
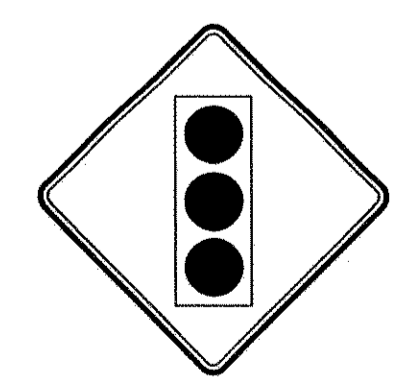
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LEGEND

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SIGN LEGEND



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MARK	DATE	INITIAL	REVISIONS DESCRIPTION	DATE	APP'VD

Plan Prepared By: *[Signature]*
KOA
3190 C. Shelby Street
Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

SEAL:

DRAWN BY: KT
DESIGNED BY: AT
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]*
DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024
RECOMMENDED BY: *[Signature]*
CAPITAL IMPROVEMENTS MANAGER

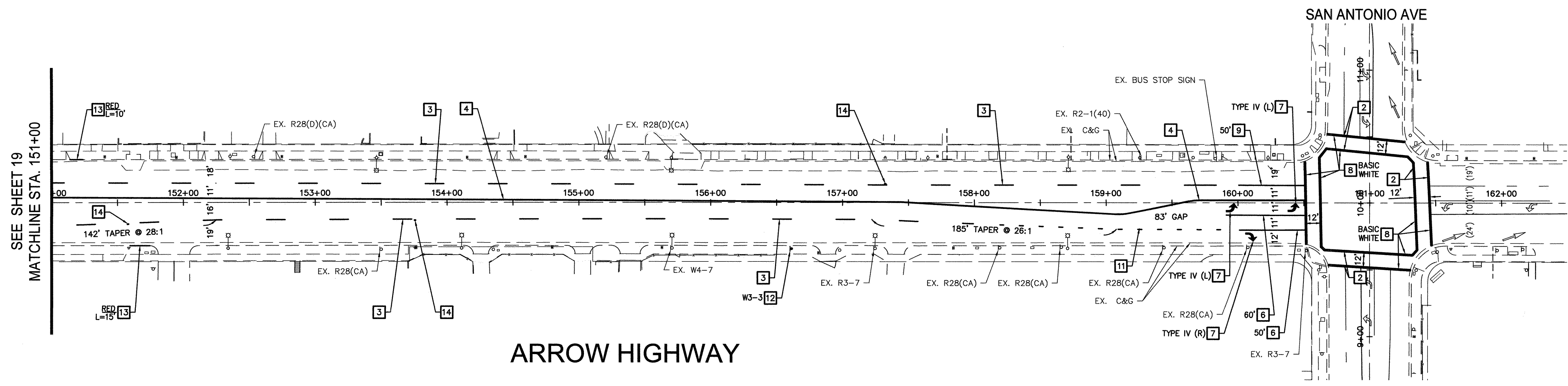
DATE: 5-10-23
RECOMMENDED BY: *[Signature]*
DEVELOPMENT SERVICES

CITY OF UPLAND
PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS SIGNING AND STRIPING PLANS STA 125+00 TO STA 151+00

SHEET 25 OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142 PLAN NO. S1-7069, 9124 & 9142

SEE SHEET 19
MATCHLINE STA. 151+00



ARROW HIGHWAY

SAN ANTONIO AVE

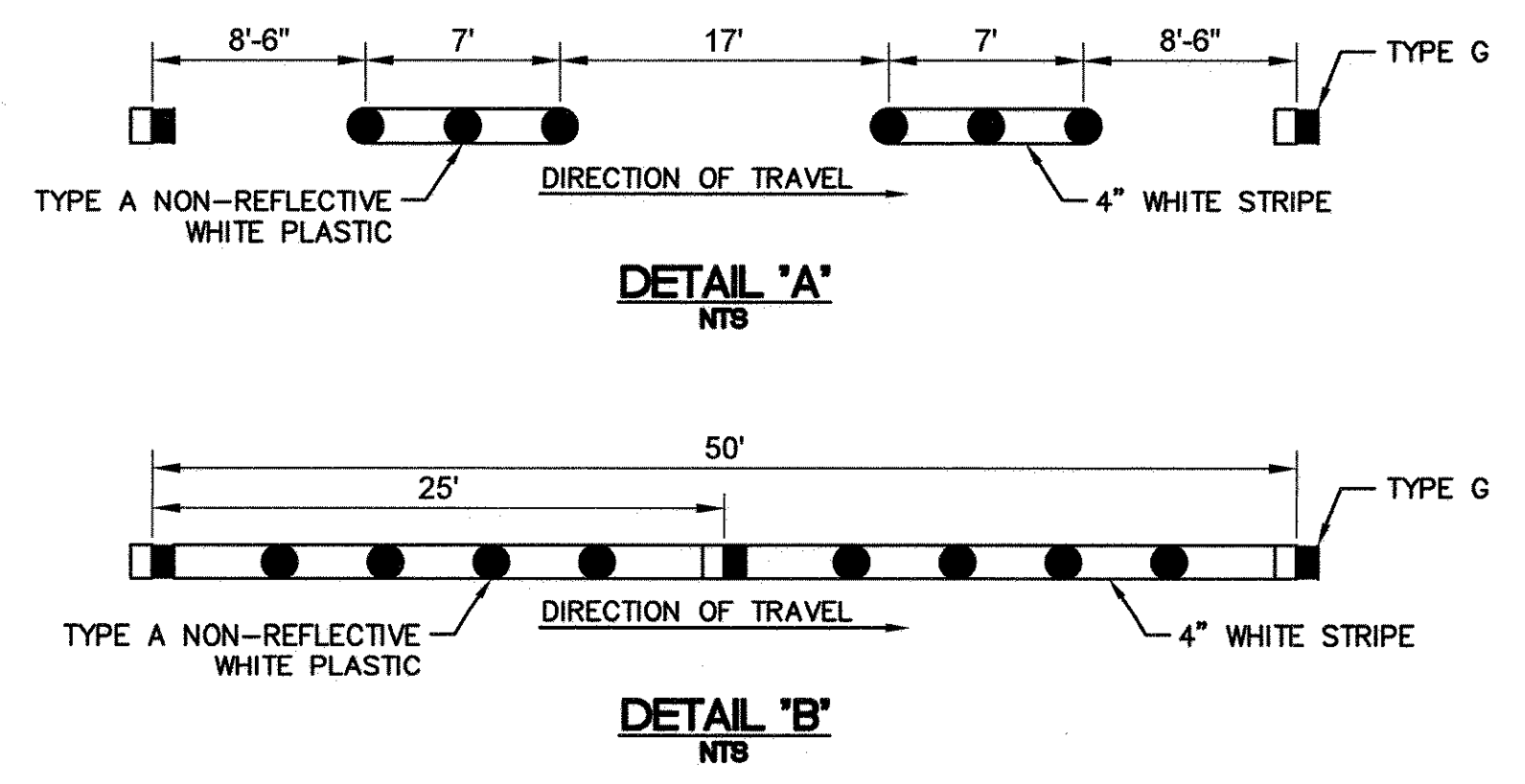
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SIGNING AND STRIPING GENERAL NOTES

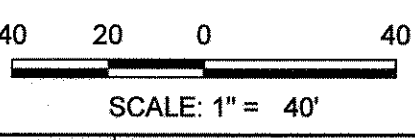
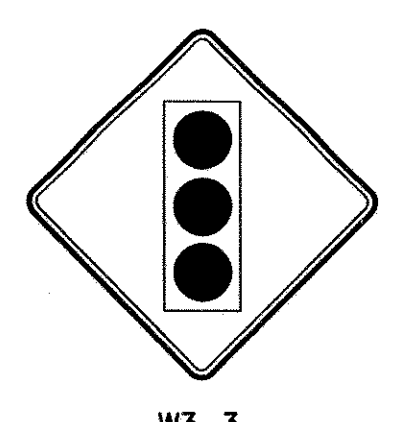
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REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APPVD

Plan Prepared By: *[Signature]*

KOA

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Ontario, California 91764
Tel: (909) 890-9693 Fax: (909) 890-9694

Date: 5/10/23

SEAL: REGISTERED PROFESSIONAL ENGINEER
CHARLES F. STEPAN
No. C50481
CIVIL
STATE OF CALIFORNIA

DRAWN BY: KT
DESIGNED BY: JA
CHECKED BY: HG
RECOMMENDED BY: *[Signature]*

APPROVED BY: *[Signature]* 5.10.23 DATE

DIRECTOR OF PUBLIC WORKS
R.C.E. C56306 EXP. DATE 12-31-2024

RECOMMENDED BY: *[Signature]* RECOMMENDED BY: *[Signature]*

CAPITAL IMPROVEMENTS MANAGER DEVELOPMENT SERVICES

CITY OF UPLAND

PROJECT NO. 7069, 9124 & 9142: ARROW HIGHWAY PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS SIGNING AND STRIPING PLANS STA 151+00 TO STA 162+00

SHEET 26 OF 26 SHEETS
DRAWING NO. -7069, 9124, & 9142

PROJECT NO. 7069, 9124 & 9142