



**County of Madera
Supplemental Environmental Impact Report
Avenue 12 Improvements**

Appendix A

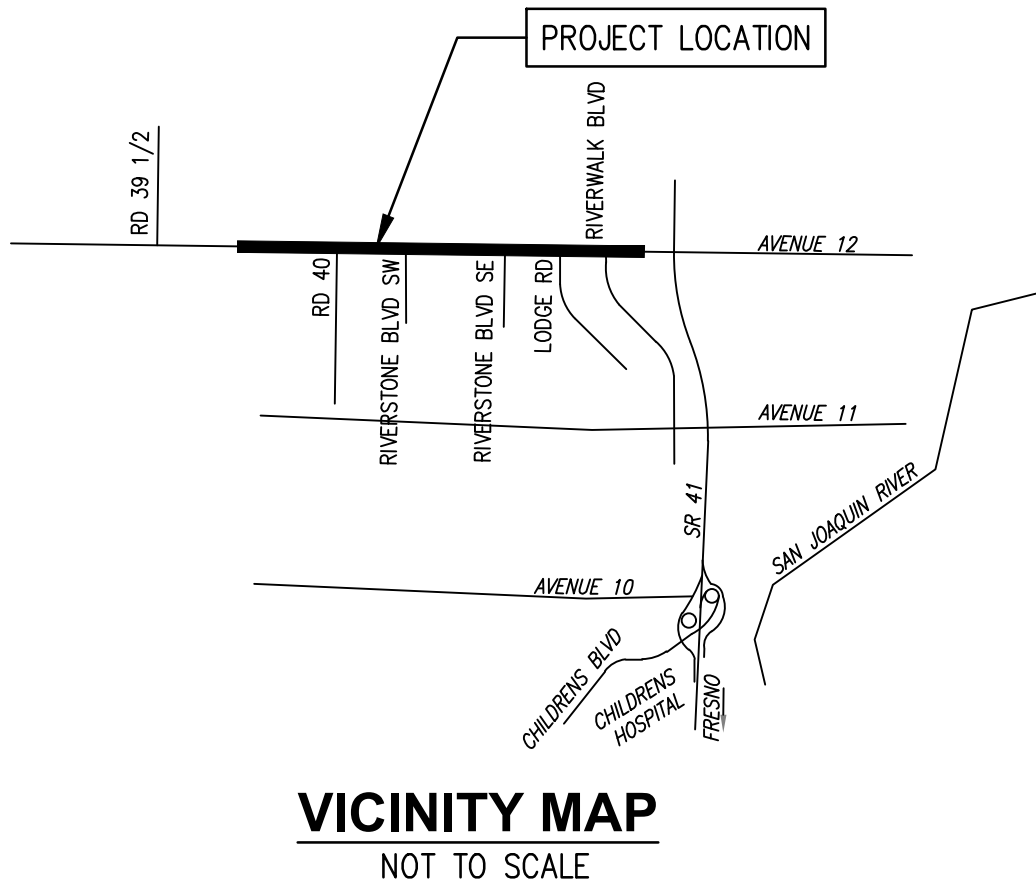
Willdan Engineering, Madera County Avenue 12 90% Project Plans



Willdan Engineering
13191 Crossroads Pkwy N Suite 405
City of Industry, CA 91746
562.908.6200

www.willdan.com

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-PS&E\901-Plans\PL-01.dwg Dec 16, 2024 -- 6:16pm Plotted By: emccracken



COUNTY OF MADERA

STATE OF CALIFORNIA

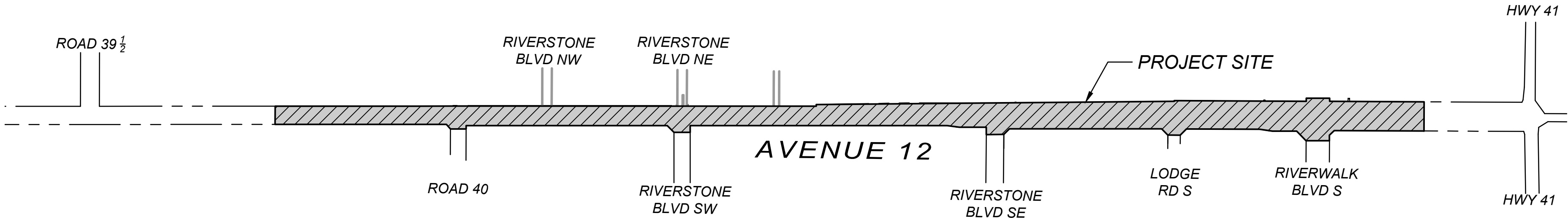
PUBLIC WORKS DEPARTMENT

AVENUE 12 WIDENING PROJECT

PROJECT NO. XXX

UTILITY CONTACTS

COMCAST FRESNO	559-217-9222
AT&T	209-793-8113
PG&E DISTRIBUTION MERCED	559-267-3262
PG&E TRANSMISSION	510-851-5607
PONDEROSA TELEPHONE	559-868-6307
CVN	559-554-9122



GENERAL NOTES:

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY OR SUBSTRUCTURE WITHIN THE LIMITS OF THE PROJECT.
- ALL WORK SHOWN HEREON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION CALTRANS STANDARD PLANS AND SPECIFICATIONS, THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THESE PLANS AND THE SPECIAL PROVISIONS.
- THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OR THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

BASIS OF BEARINGS:

HORIZONTAL DATUM IS NAD83 (2011) EPOCH 2010.0000. COORDINATES ARE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 3 SCALED TO GROUND ABOUT CONTROL POINT CP1 (CHISELED 'X' IN CURB). TO OBTAIN GRID DISTANCES SCALE COORDINATES 1.00001979 ABOUT CONTROL POINT CP1 BASED ON THE SURVEY BY WILLDAN ON MARCH 26, 2024.

VERTICAL DATUM IS NAVD88 BASED ON NGS OPUS SOLUTION FOR THE PROJECT TAKEN FROM CONTROL POINT CP1, ELEVATION=373.70'

LEGEND:

- EXISTING WATER/GAS VALVE
- EXISTING FIRE HYDRANT & BOLLARDS
- EXISTING POWER POLE
- PROPOSED POWER POLE LOCATION
- CENTERLINE
- RIGHT-OF-WAY
- RIGHT-OF-ENTRY
- PROPOSED CURB AND GUTTER
- PROPOSED AC DIKE/MEDIAN CURB
- PROPOSED PCC IMPROVEMENTS
- PROPOSED DETECTABLE WARNING SURFACE
- PROPOSED FENCE/GUARD RAIL
- PROPOSED RETAINING WALL
- PROPOSED FLOWLINE

ABBREVIATIONS:

AB	AGGREGATE BASE	MIN	MINIMUM
AC	ASPHALT CONCRETE	N	NORTH
AP	ANGLE POINT/ALTERNATIVE PIPE	N'LY	NORTHERLY
BC	BEGIN CURVE	NO.	NUMBER
BCR	BEGIN CURB RETURN	NTS	NOT TO SCALE
BEG.	BEGIN	OG	ORIGINAL GROUND
BOT	BOTTOM	OH	OVERHEAD
BVC	BEGIN VERTICAL CURVE	PI	POINT OF INTERSECTION
BW	BACK OF WALK/BARBED WIRE	PCC	PORTLAND CEMENT CONCRETE
C&G	CURB AND GUTTER	PG&E	PACIFIC GAS AND ELECTRIC COMPANY
CB	CATCH BASIN	PP	POWER POLE
C/CL	CENTERLINE	PRC	POINT OF REVERSE CURVE
CLF	CHAIN LINK FENCE	PROP	PROPOSED
CLR	CLEAR	PRVC	POINT OF REVERSE VERTICAL CURVE
CONC	CONCRETE	R	RATE, RADIUS
CONST	CONSTRUCTION	RCIP	REINFORCED CONCRETE PIPE
DI	DRAINAGE INLET/DUCTILE IRON	RCWD	ROOT CREEK WATER DISTRICT
DWY	DRIVEWAY	REQ'D	REQUIRED
E	EAST	RSP	ROCK SLOPE PROTECTION
EC	END CURVE	RT	RIGHT
ECR	END CURB RETURN	R/W	RIGHT-OF-WAY
EG	EDGE OF GUTTER	S	SLOPE/SOUTH
ELEV	ELEVATION	S'LY	SOUTHERLY
EOP/EP	EDGE OF PAVEMENT	SCE	SOUTHERN CALIFORNIA EDISON
EVC	END VERTICAL CURVE	SCH	SCHEDULE
EX/EXIST	EXISTING	SDMH	STORM DRAIN MANHOLE
FG	FINISHED GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FS	FINISHED SURFACE	TC	TOP OF CURB
GB	GRADE BREAK	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH-DENSITY POLYETHYLENE	TELE	TELEPHONE
HMA	HOT MIX ASPHALT	TO	TOP OF GRADE/TOP OF GRADE
INT	INTERSECTION	TOP	TOP OF PLATFORM
INV	INVERT	TYP	TYPICAL
LF	LINEAR FEET	VAR	VARIES
LT	LEFT	W	WIDTH, WEST
MAX	MAXIMUM	WM	WATER METER
MH	MANHOLE		

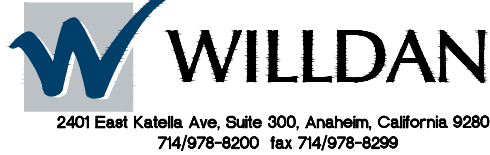
SHEET NO: DWG NO: DESCRIPTION:

SHEET NO. 1	T-1	TITLE SHEET
SHEET NO. 2	D-1	NOTES
SHEET NO. 3-4	D-2 & D-3	CONSTRUCTION DETAILS
SHEET NO. 5-6	D-4 & D-5	TYPICAL SECTIONS
SHEET NO. 7	C-1	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 431+00 TO STA 440+50
SHEET NO. 8	C-2	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 440+50 TO STA 449+50
SHEET NO. 9	C-3	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 449+50 TO STA 458+50
SHEET NO. 10	C-4	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 458+50 TO STA 467+50
SHEET NO. 11	C-5	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 467+50 TO STA 476+50
SHEET NO. 12	C-6	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 476+50 TO STA 485+50
SHEET NO. 13	C-7	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 485+50 TO STA 494+50
SHEET NO. 14	C-8	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 494+50 TO STA 503+50
SHEET NO. 15	C-9	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 503+50 TO STA 509+75
SHEET NO. 16	C-10	STREET IMPROVEMENTS ON AVENUE 12 FROM STA 509+75 TO WEST OF HWY 41
SHEET NO. 17	RW-1	RETAINING WALL PLAN
SHEET NO. 18	DM-1	DRIVEWAY MODIFICATION PLAN AT 39877 AVENUE 12
SHEET NO. 19	G-1	GRADING & DRAINAGE DETAILS
SHEET NO. 20	G-2	GRADING & DRAINAGE PLANS FROM STA 434+10.21 TO STA 451+00
SHEET NO. 21	G-3	GRADING & DRAINAGE PLANS FROM STA 451+00 TO STA 472+00
SHEET NO. 22	G-4	GRADING & DRAINAGE PLANS FROM STA 472+00 TO STA 489+50
SHEET NO. 23	G-5	GRADING & DRAINAGE PLANS FROM STA 489+50 TO STA 509+00
SHEET NO. 24	G-6	GRADING & DRAINAGE PLANS FROM STA 509+00 TO EAST OF RIVERWALK BLVD
SHEET NO. 25	G-7	STORM DRAIN PLAN AND PROFILE
SHEET NO. 26	G-8	STORM DRAIN PLAN AND PROFILE
SHEET NO. 27	UT-1	UTILITY PLAN ON AVENUE 12 FROM STA 424+00 TO STA 456+50
SHEET NO. 28	UT-2	UTILITY PLAN ON AVENUE 12 FROM STA 456+50 TO STA 479+00
SHEET NO. 29	UT-3	UTILITY PLAN ON AVENUE 12 FROM STA 479+00 TO STA 501+25
SHEET NO. 30	UT-4	UTILITY PLAN ON AVENUE 12 FROM STA 501+25 TO EAST OF RIVERWALK BLVD
SHEET NO. 31	SS-1	SIGNING AND STRIPING PLAN FROM STA 424+00 TO STA 444+00
SHEET NO. 32	SS-2	SIGNING AND STRIPING PLAN FROM STA 444+00 TO STA 463+00
SHEET NO. 33	SS-3	SIGNING AND STRIPING PLAN FROM STA 463+00 TO STA 483+00
SHEET NO. 34	SS-4	SIGNING AND STRIPING PLAN FROM STA 483+00 TO STA 503+00
SHEET NO. 35	SS-5	SIGNING AND STRIPING PLAN FROM STA 503+00 TO WEST OF HWY 41
SHEET NO. 36	SS-6	SIGNING AND STRIPING PLAN RIVERWALK BLVD S AND AVENUE 12
SHEET NO. 37-38	TS-1 & TS-2	TRAFFIC SIGNAL MODIFICATION PLAN AVENUE 12 AT RIVERSTONE BLVD SW
SHEET NO. 39-40	TS-3 & TS-4	TRAFFIC SIGNAL MODIFICATION PLAN AVENUE 12 AT RIVERSTONE BLVD SE
SHEET NO. 41-42	TS-5 & TS-6	TRAFFIC SIGNAL MODIFICATION PLAN AVENUE 12 AT RIVERWALK BLVD
SHEET NO. 43-44	SC-1 & SC-2	STAGE CONSTRUCTION PLAN STAGE 1
SHEET NO. 45-46	SC-3 & SC-4	STAGE CONSTRUCTION PLAN STAGE 2
SHEET NO. 47	HS-1	HARDSCAPE PLAN FROM STA 441+00 TO STA 469+50
SHEET NO. 48	HS-2	HARDSCAPE PLAN FROM STA 469+50 TO STA 499+00
SHEET NO. 49	HS-3	HARDSCAPE PLAN FROM STA 499+00 TO PROJECT LIMITS



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE:	AS SHOWN	DATE
DRAWN BY:	RSS/CL	12/16/24
DESIGNED BY:	RSS/JK	12/16/24
CHECKED BY:	TP	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT	1 OF 49
TITLE SHEET	DWG. NO. T-1

Plotted By: Camryn Lopez

GENERAL NOTES:

1. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY TRAFFIC CONTROL MEASURES OR WORK WITHIN EXISTING COUNTY, OR STATE RIGHT-OF-WAY. COUNTY PERMITS MAY BE OBTAINED AT THE MADERA COUNTY PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION AT (559) 675-7811. CONTACT THE APPLICABLE PERMITS DIVISION OF CALTRANS FOR APPLICABLE PERMIT.
2. FOR TRAFFIC SIGNAL INSTALLATION OR MODIFICATION, A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FROM THE COUNTY OR CALTRANS.
3. A GRADING PERMIT IS REQUIRED FROM THE MADERA COUNTY PUBLIC WORKS DEPARTMENT FOR ANY GRADING. THE CONTRACTOR SHALL CONTACT THE COUNTY ENGINEERING SERVICES DIVISION AT (559) 675-7811 FOR NECESSARY PERMIT AND REQUIREMENTS. (SEE GRADING PLAN SHEETS)
4. A BUILDING PERMIT IS REQUIRED FOR THE CONSTRUCTION OF ANY MASONRY WALL, WOOD FENCE, TRASH ENCLOSURE, RETAINING WALL, WROUGHT IRON FENCE OF ANY COMBINATION THEREOF. THE CONTRACTOR SHALL CONTACT THE COUNTY BUILDING INSPECTION DIVISION AT (559) 675-7811 FOR NECESSARY PERMIT AND REQUIREMENTS. RETAINING WALLS OR FENCES CONSTRUCTED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE MASONRY CONSTRUCTION.
5. ALL EXISTING MAINS, UTILITIES, SIGNS, STRIPING, ETC., FOUND TO BE IN CONFLICT WITH THIS PLAN, WHETHER SPECIFICALLY IDENTIFIED ON THE PLANS AND PROJECT SPECIFICATIONS OR NOT, SHALL BE CONSIDERED AS PART OF THE REQUIRED WORK TO BE PERFORMED.
6. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY U.S.A. TWO (2) WORKING DAYS PRIOR TO THE BEGINNING OF EXCAVATION.
7. THE CONTRACTOR SHALL NOTIFY THE MADERA COUNTY PUBLIC WORKS DEPARTMENT AT (559) 675-7811 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO POURING SIDEWALKS, AND/OR INSTALLING ANY SIGNS, MARKINGS, STRIPING OR STENCILING SUCH AS DIRECTIONAL ARROWS, STOPS, CROSS WALKS, ETC.
8. ANY EXISTING SIGNING, STRIPING, STENCILING AND/OR IMPROVEMENT SHOWN ON THE PLANS TO REMAIN THAT ARE DAMAGED, DISTURBED OR FADED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH THE COUNTY STANDARD AND CALTRANS MUTCD AS DIRECTED BY THE COUNTY.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL EXISTING STRUCTURES, TREES, SHRUBS, ETC., THAT ARE ON EXISTING OR PROPOSED RIGHT-OF-WAY LINES, ENCROACHING ON EXISTING OR PROPOSED STREET RIGHT-OF-WAYS OR ENCROACHING ON EXISTING OR PROPOSED UTILITY EASEMENTS.
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF MADERA STANDARD PLANS AND SPECIFICATIONS, AND/OR ANY REFERENCED APPLICABLE SECTIONS OF THE CALTRANS STANDARD SPECIFICATIONS.
11. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, TEMPORARY CONTROL. COMPLIANCE WITH THE REQUIREMENTS OF SAID MANUAL SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL SAFETY DEVICES WHEN NECESSARY TO MAINTAIN A SAFE CONDITION.
12. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING CONSTRUCTION. UNLESS OTHERWISE PRESCRIBED IN THE PLAN, AT LEAST ONE TWELVE (12) FOOT WIDE LANE IN EACH DIRECTION OF TRAVEL SHALL BE MAINTAINED AT ALL TIMES. PRIOR TO COMPLETION OF WORK EACH DAY, THE CONTRACTOR SHALL BACKFILL AND PROVIDE TEMPORARY TRENCH RESURFACING BEFORE LEAVING THE SITE.
13. ALL EXISTING UTILITY MANHOLES, VALVE BOXES, AND VAULTS SHALL BE ADJUSTED TO THE FINISHED GRADE OR NEW PAVEMENTS IN ACCORDANCE WITH THE ASSOCIATED STANDARDS AND SPECIFICATIONS.
14. PRIOR TO PLACING AGGREGATE BASE, THE SUBGRADE GRADING SHALL BE VERIFIED BY THE COUNTY TO THE SATISFACTION OF THE COUNTY INSPECTOR. CUT SHEETS SHALL BE PROVIDED TO THE COUNTY INSPECTOR.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL HANDICAP RAMPS THAT ARE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND REQUIREMENTS.
16. ALL SEWER, WATER, AND STORM DRAIN FACILITIES ARE TO BE CONSTRUCTED TO ROOT CREEK WATER DISTRICT STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THESE STANDARDS.

ROOT CREEK WATER DISTRICT NOTES:

1. A PERMIT IS REQUIRED FOR ANY ROOT CREEK WATER DISTRICT FACILITIES WORK. THE CONTRACTOR SHALL OBTAIN A PERMIT BY CALLING 559-326-2222.
2. ALL SEWER, WATER, AND STORM DRAIN FACILITIES ARE TO BE CONSTRUCTED TO ROOT CREEK WATER DISTRICT STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THESE STANDARDS.
3. STORM DRAIN INLETS SHALL BE CONSTRUCTED WITH PRECAST BASES AND SHAFT MATERIAL AND CAST-IN-PLACE BASES ARE NOT PERMITTED.

PACIFIC GAS AND ELECTRIC COMPANY NOTES:

1. BEFORE STARTING ANY TRENCHING, CALL UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. CALL USA (811) TO OBTAIN EXACT LOCATION OF FACILITIES AND POT-HOLE TO VERIFY DEPTH OF LINES (IF REQUIRED). A STANDBY PG&E EMPLOYEE IS REQUIRED DURING ANY EXCAVATION WITHIN 10 FEET OF A GAS TRANSMISSION LINE.
2. IF A CONFLICT IS DISCOVERED OR PG&E FACILITIES NEED TO BE LOWERED/RAISED, CALL 877-743-7782.
3. PG&E DOES NOT PROVIDE DEPTH INFORMATION ABOUT EXISTING ELECTRIC AND GAS FACILITIES (I.E. GAS MAIN AND SERVICES, ETC). UNDERGROUND FACILITIES ARE GENERALLY 24" TO 36" DEEP. HOWEVER, THE DEPTHS MAY HAVE CHANGED DUE TO STREET RECONSTRUCTION AND GENERAL AREA CHANGES.

MITIGATION NOTES:

1. IF ANY PREHISTORIC OR HISTORIC SUBSURFACE CULTURAL RESOURCES ARE DISCOVERED DURING GROUND-DISTURBING ACTIVITIES, ALL WORK WITHIN 50 FEET OF THE RESOURCES SHALL BE HALTED AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY. THE COUNTY SHALL CONSULT WITH A QUALIFIED ARCHAEOLOGIST AND MEET TO DETERMINE THE APPROPRIATE AVOIDANCE MEASURES AND OTHER APPROPRIATE MITIGATION. THE COUNTY SHALL MAKE THE FINAL DETERMINATION. ALL SIGNIFICANT CULTURAL MATERIALS RECOVERED SHALL BE, AS NECESSARY AND AT THE DISCRETION OF THE CONSULTING ARCHEOLOGIST, SUBJECT TO SCIENTIFIC ANALYSIS, PROFESSIONAL MUSEUM CURATION, AND DOCUMENTATION ACCORDING TO CURRENT PROFESSIONAL STANDARDS.

IN CONSIDERING ANY SUGGESTED MITIGATION PROPOSED BY THE CONSULTING ARCHAEOLOGIST IN ORDER TO MITIGATE IMPACTS TO HISTORICAL RESOURCES OR UNIQUE ARCHAEOLOGICAL RESOURCES, THE COUNTY SHALL DETERMINE WHETHER AVOIDANCE IS NECESSARY AND FEASIBLE IN LIGHT OF FACTORS SUCH AS THE NATURE OF THE FIND, PROJECT DESIGN, COSTS, AND OTHER CONSIDERATIONS. IF AVOIDANCE IS INFEASIBLE, OTHER APPROPRIATE MEASURES (E.G., DATA RECOVERY) SHALL BE INSTITUTED. WORK MAY PROCEED ON OTHER PARTS OF THE PROJECT SITE WHILE MITIGATION FOR HISTORICAL RESOURCES OR UNIQUE ARCHAEOLOGICAL RESOURCES IS BEING CARRIED OUT.
2. IN THE EVENT THAT PALEONTOLOGICAL RESOURCES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY. A QUALIFIED PALEONTOLOGIST, SHALL DOCUMENT THE DISCOVERY AS NEEDED, EVALUATE THE POTENTIAL RESOURCE, AND ASSESS THE SIGNIFICANCE OF THE FIND UNDER THE CRITERIA SET FORTH IN CEQA GUIDELINES SECTION 15064.5. THE OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF OBTAINING THE PALEONTOLOGIST. IF A BREAS OR OTHER FOSSIL IS DISCOVERED DURING CONSTRUCTION, EXCAVATIONS WITHIN 50 FEET OF THE FIND SHALL BE TEMPORARILY HALTED OR DIVERTED UNTIL THE DISCOVERY IS EXAMINED BE A QUALIFIED PALEONTOLOGIST (IN ACCORDANCE WITH SOCIETY OF VERTEBRATE PALEONTOLOGY STANDARDS (SOCIETY OF VERTEBRATE PALEONTOLOGY, 1995)). THE PALEONTOLOGIST SHALL NOTIFY THE APPROPRIATE AGENCIES TO DETERMINE PROCEDURES THAT SHOULD BE FOLLOWED BEFORE CONSTRUCTION IS ALLOWED TO RESUME AT THE LOCATION OF THE FIND. IF THE COUNTY DETERMINES THAT AVOIDANCE IS NOT FEASIBLE, THE PALEONTOLOGIST SHALL PREPARE AN EXCAVATION PLAN FOR MITIGATING THE EFFECT OF THE PROPOSED PROJECT ON THE QUALITIES THAT MAKE THE RESOURCE IMPORTANT. THE PLAN SHALL BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. IF HUMAN SKELETAL REMAINS ARE UNCOVERED DURING PROJECTION CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY HALT WORK IN THE AREA OF THE DISCOVERY, CONTACT THE MADERA COUNTY CORONER TO EVALUATE THE REMAINS, AND FOLLOW THE PROCEDURES AND PROTOCOLS SET FORTH IN SECTION 15064.5 (E)(1) OF THE CEQA GUIDELINES. IF THE COUNTY CORONER DETERMINES THAT THE REMAINS ARE NATIVE AMERICAN THE COUNTY SHALL CONTACT THE NAHC, INACCORDANCE WITH HEALTH AND SAFETY CODE SECTION 7050.5, SUBDIVISION (C), AND ALL EXCAVATION AND SITE PREPARATION ACTIVITIES WOULD CEASE UNTIL APPROPRIATE ARRANGEMENTS ARE MADE.
4. THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF CCR, TITLE 8, SECTIONS 5163 THROUGH 5167 FOR GENERAL INDUSTRY SAFETY ORDERS TO PROTECT THE PROJECT AREA FROM BEING CONTAMINATED BY THE ACCIDENTAL RELEASE OF ANY HAZARDOUS MATERIALS AND/OR WASTES. DISPOSAL OF ALL HAZARDOUS MATERIALS SHALL BE IN COMPLIANCE WITH APPLICABLE CALIFORNIA HAZARDOUS WASTE DISPOSAL LAWS. THE CONTRACTOR SHALL CONTACT THE LOCAL FIRE AGENCY AND THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH, FOR ANY SITE-SPECIFIC REQUIREMENTS REGARDING HAZARDOUS MATERIALS OR HAZARDOUS WASTE CONTAINMENT OR HANDLING.
5. IN THE EVENT OF AN ACCIDENTAL RELEASE OF HAZARDOUS MATERIALS DURING CONSTRUCTION, CONTAINMENT AND CLEAN UP SHALL OCCUR IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS.
6. OIL AND OTHER SOLVENTS USED DURING MAINTENANCE OF CONSTRUCTION EQUIPMENT SHALL BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS. ALL HAZARDOUS MATERIALS SHALL BE TRANSPORTED, HANDLED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS.
7. THE CONTRACTOR SHALL PREPARE A SITE SAFETY PLAN IN ACCORDANCE WITH ANY REQUIREMENT OF THE RWQCB. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL HALT CONSTRUCTION IMMEDIATELY AND NOTIFY THE PROJECT ENGINEER. DISPOSAL OF ALL HAZARDOUS MATERIALS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CALIFORNIA HAZARDOUS WASTE DISPOSAL LAWS.
8. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A SAFETY PROGRAM TO ENSURE THE HEALTH AND SAFETY OF THE CONSTRUCTION WORKERS AND THE PUBLIC DURING PROJECT CONSTRUCTION. THE SAFETY PROGRAM SHALL INCLUDE AN INJURY AND ILLNESS PREVENTION PROGRAM, A SITE-SPECIFIC SAFETY PLAN, AND INFORMATION ON THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO BE USED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL WORK CLOSELY WITH LOCAL FIRE AGENCIES TO DEVELOP A FIRE SAFETY PLAN, WHICH DESCRIBES VARIOUS SCENARIOS AND ACTION PLANS IN THE EVENT OF A FIRE.
10. DURING CONSTRUCTION, ALL STAGING AREAS, WELDING AREAS, OR AREAS SLATED FOR DEVELOPMENT USING SPARK PRODUCING EQUIPMENT SHALL BE CLEARED OF DRIED VEGETATION OR OTHER MATERIAL THAT COULD IGNITE. ANY CONSTRUCTION EQUIPMENT THAT INCLUDES A SPARK ARRESTOR SHALL BE EQUIPPED WITH A SPARK ARRESTOR IN GOOD WORKING ORDER. DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, THE CONTRACTOR SHALL REQUIRE ALL VEHICLES AND CREWS WORKING AT THE PROJECT SITE TO HAVE ACCESS TO FUNCTIONAL FIRE EXTINGUISHERS AT ALL TIMES. IN ADDITION, CONSTRUCTION CREWS SHALL BE A SPOTTER DURING WELDING ACTIVITIES TO LOOK OUT FOR POTENTIALLY DANGEROUS SITUATIONS, INCLUDING ACCIDENTAL SPARKS.
11. HOURS OF CONSTRUCTION SHALL BE LIMITED TO BETWEEN 7 AM AND 6 PM ON WEEKDAYS AND FROM 8 AM TO 5 PM ON SATURDAYS, UNLESS OTHERWISE APPROVED IN WRITING BY THE COUNTY.
12. CONSTRUCTION EQUIPMENT NOISE SHALL BE MINIMIZED DURING THE PROJECT CONSTRUCTION BY MUFFLING AND SHIELDING INTAKES AND EXHAUST ON CONSTRUCTION EQUIPMENT (PER THE MANUFACTURERS SPECIFICATIONS) AND BY SHROUding OR SHIELDING IMPACT TOOLS.
13. CONSTRUCTION STAGING AREAS SHALL BE LOCATED AS FAR AS POSSIBLE FROM NOISE-SENSITIVE AREAS.

USANORTH811.ORG



Know what's below.
Call before you dig.

R E V I S I O N S				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE





extending
your
reach

2401 East Kalinda Ave, Suite 300, Anaheim, California 92806
714/978-8200 fax 714/978-8299

PREPARED UNDER THE SUPERVISION OF

TYRONE PETER

R.C.E. 81888

DATE

SCALE: AS SHOWN

DATE

DRAWN BY: RUS/CL

12/16/24

DESIGNED BY: RUS/JK

12/16/24

CHECKED BY: TP

12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER

DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

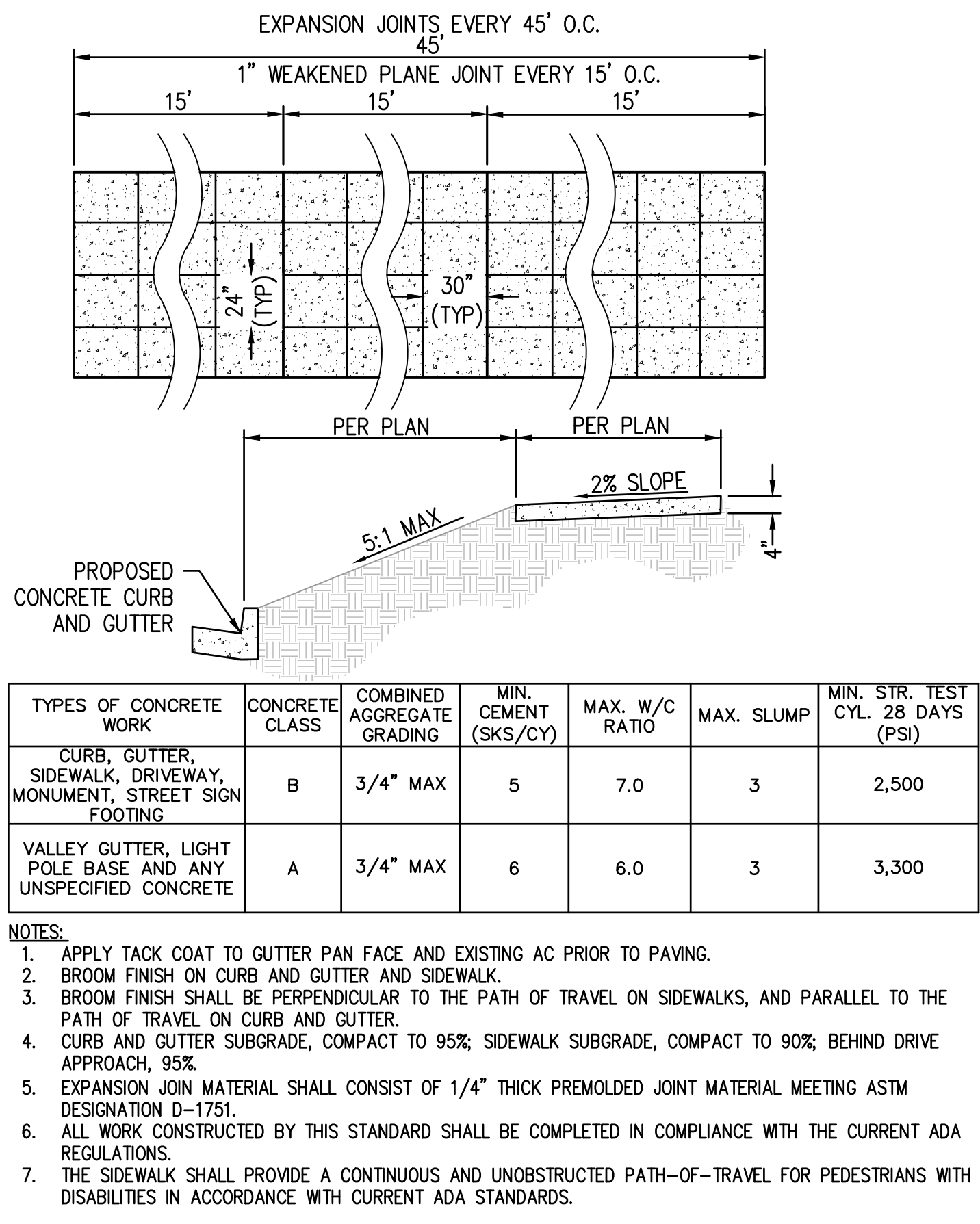
AVENUE 12 WIDENING PROJECT

NOTES

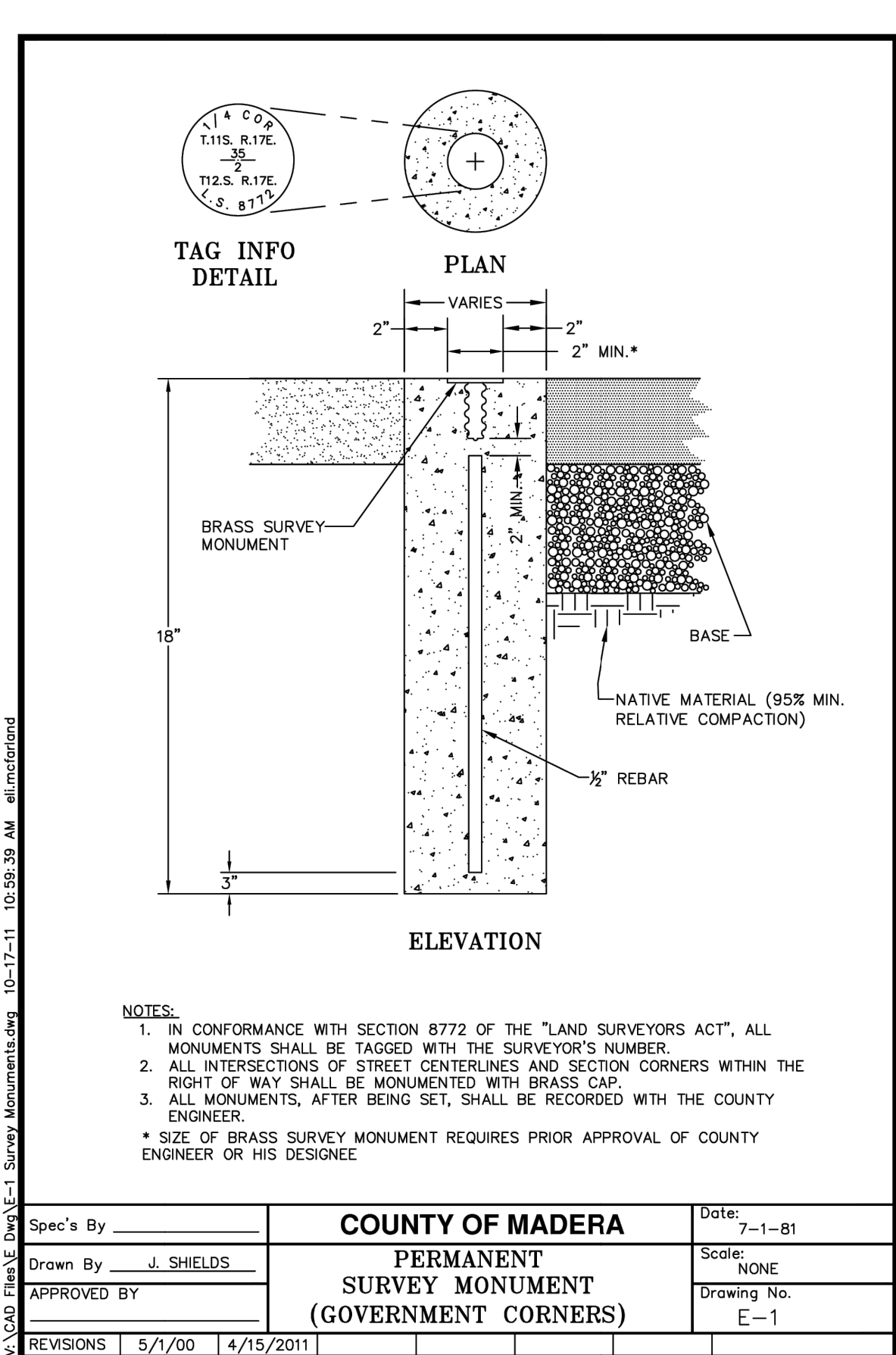
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2 OF 49

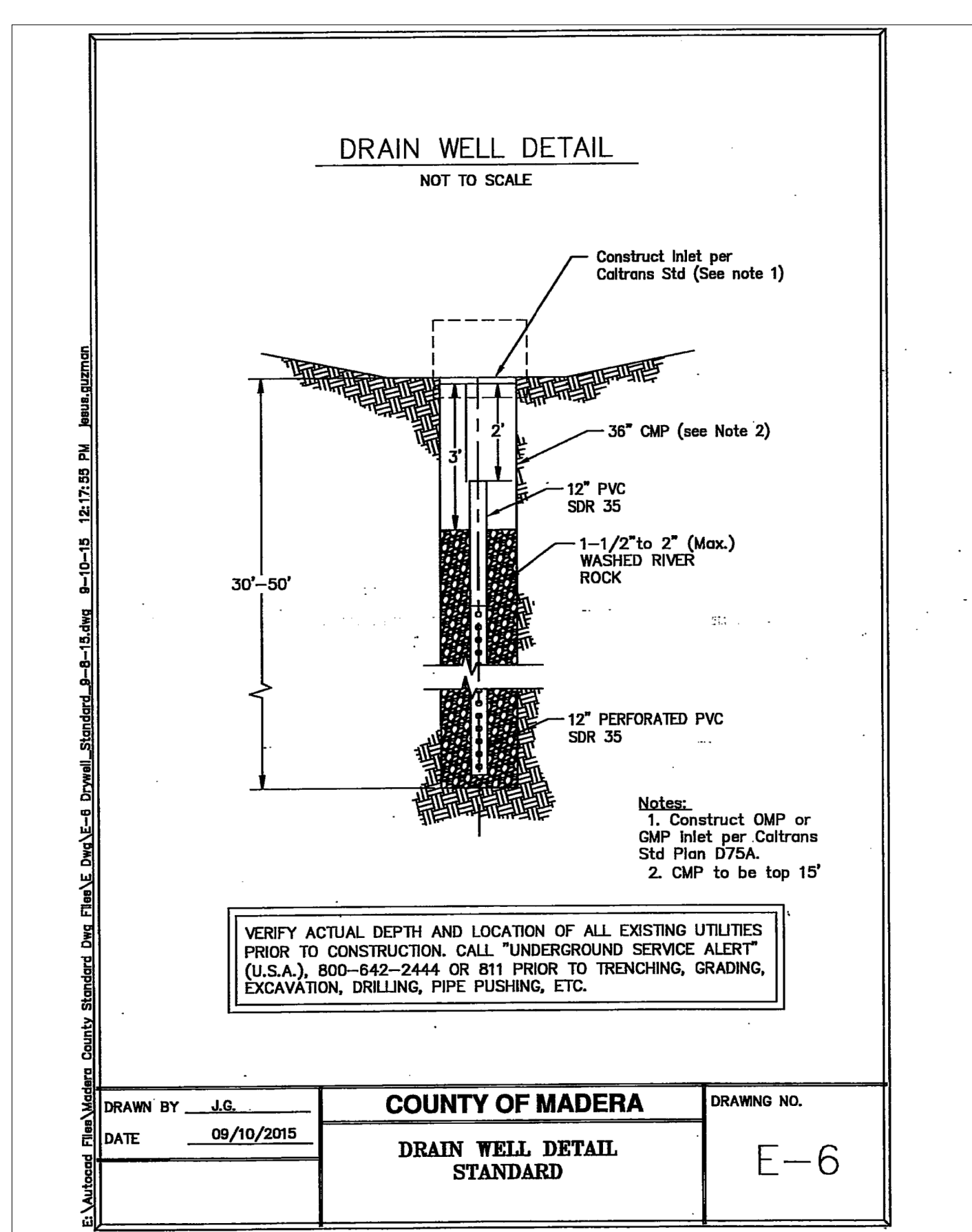
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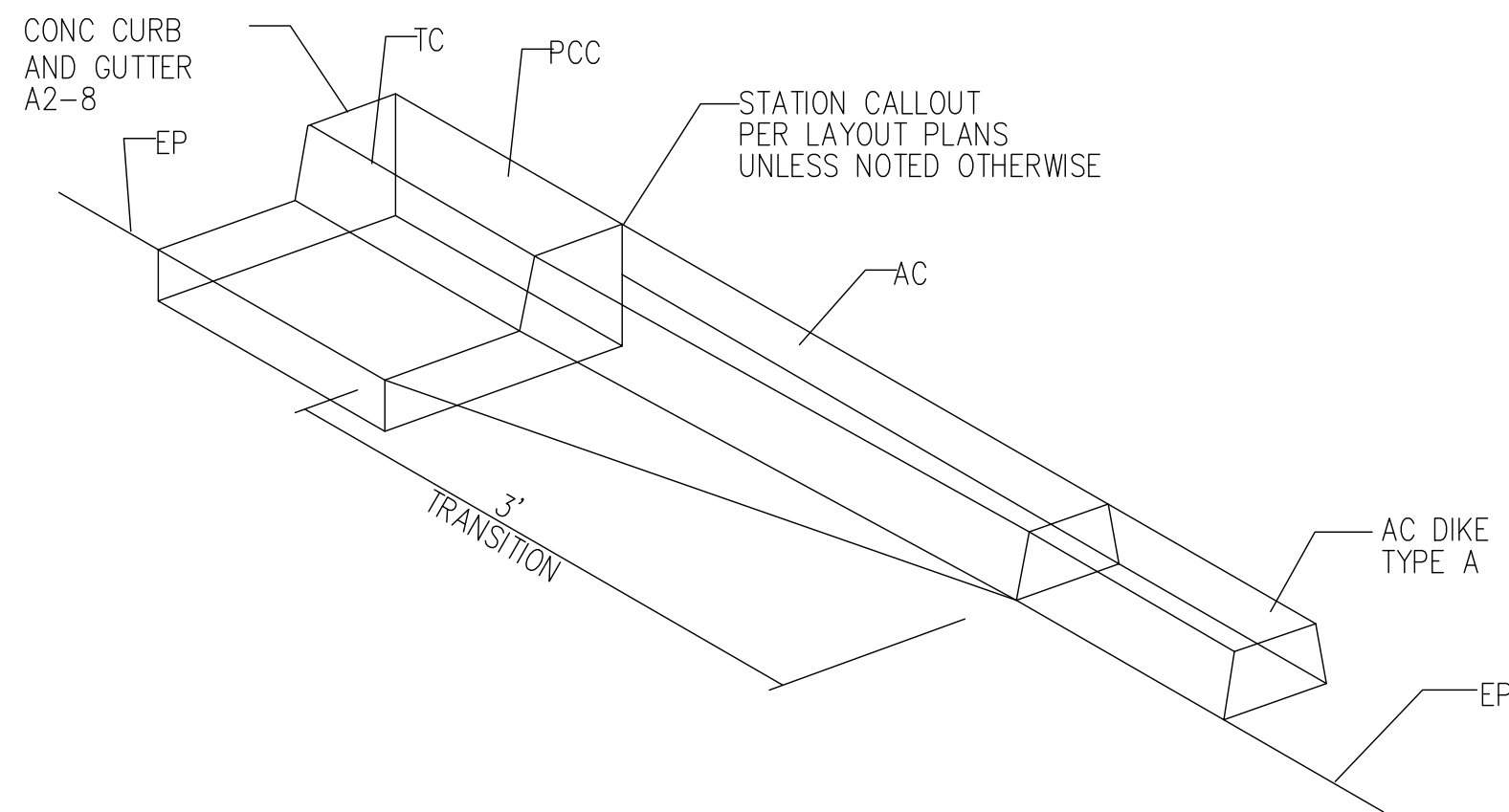
SIDEWALK DETAIL
NTS



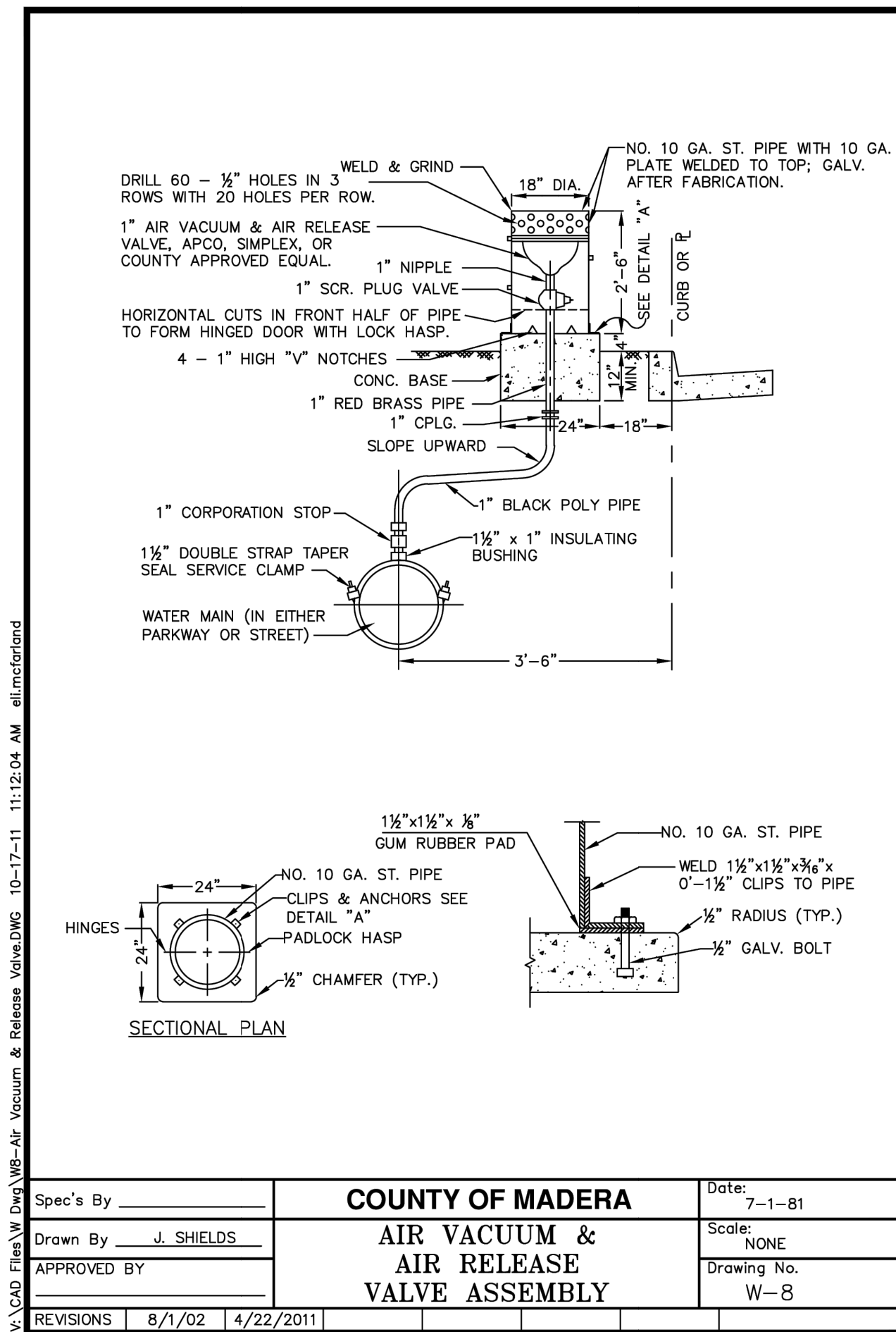
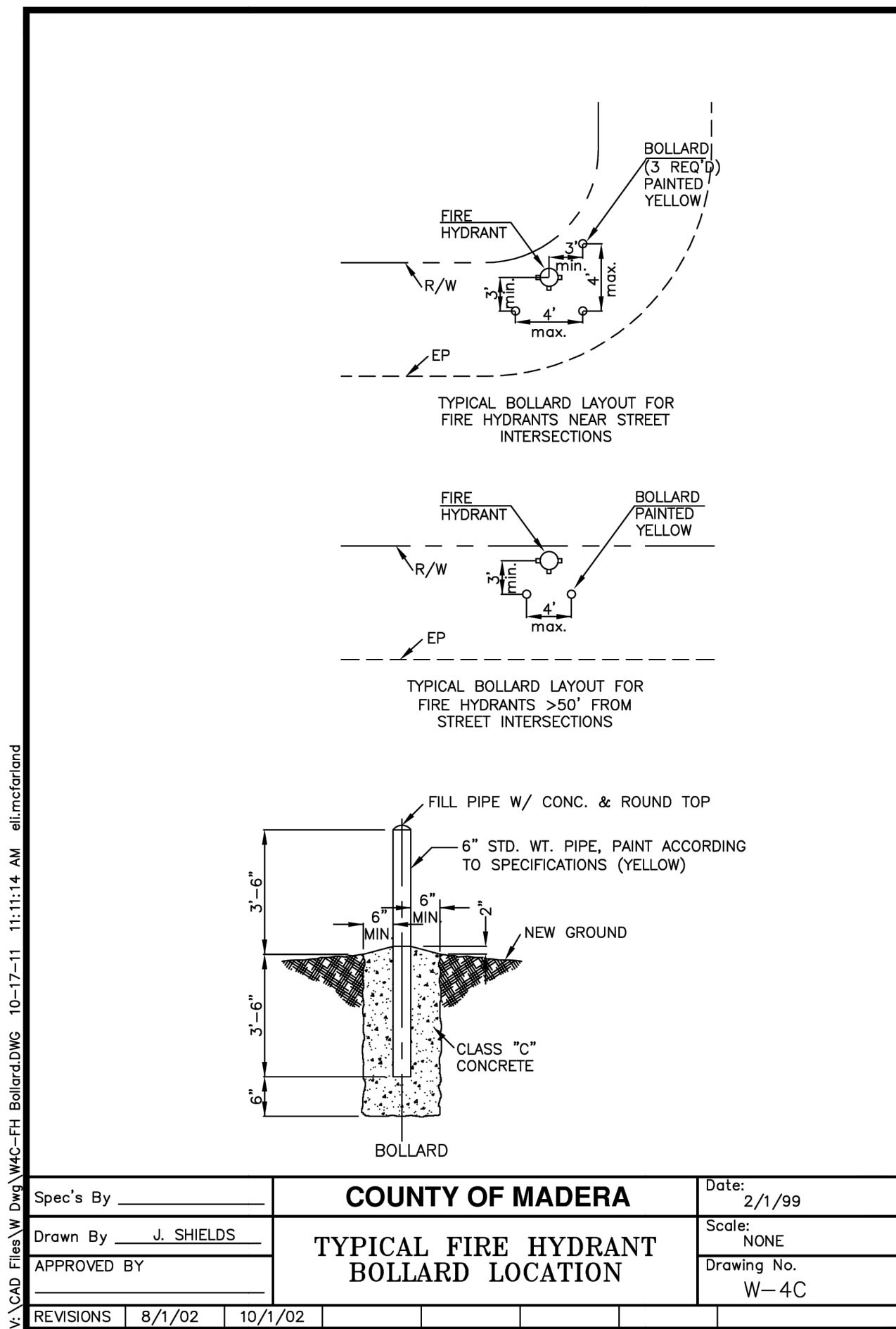
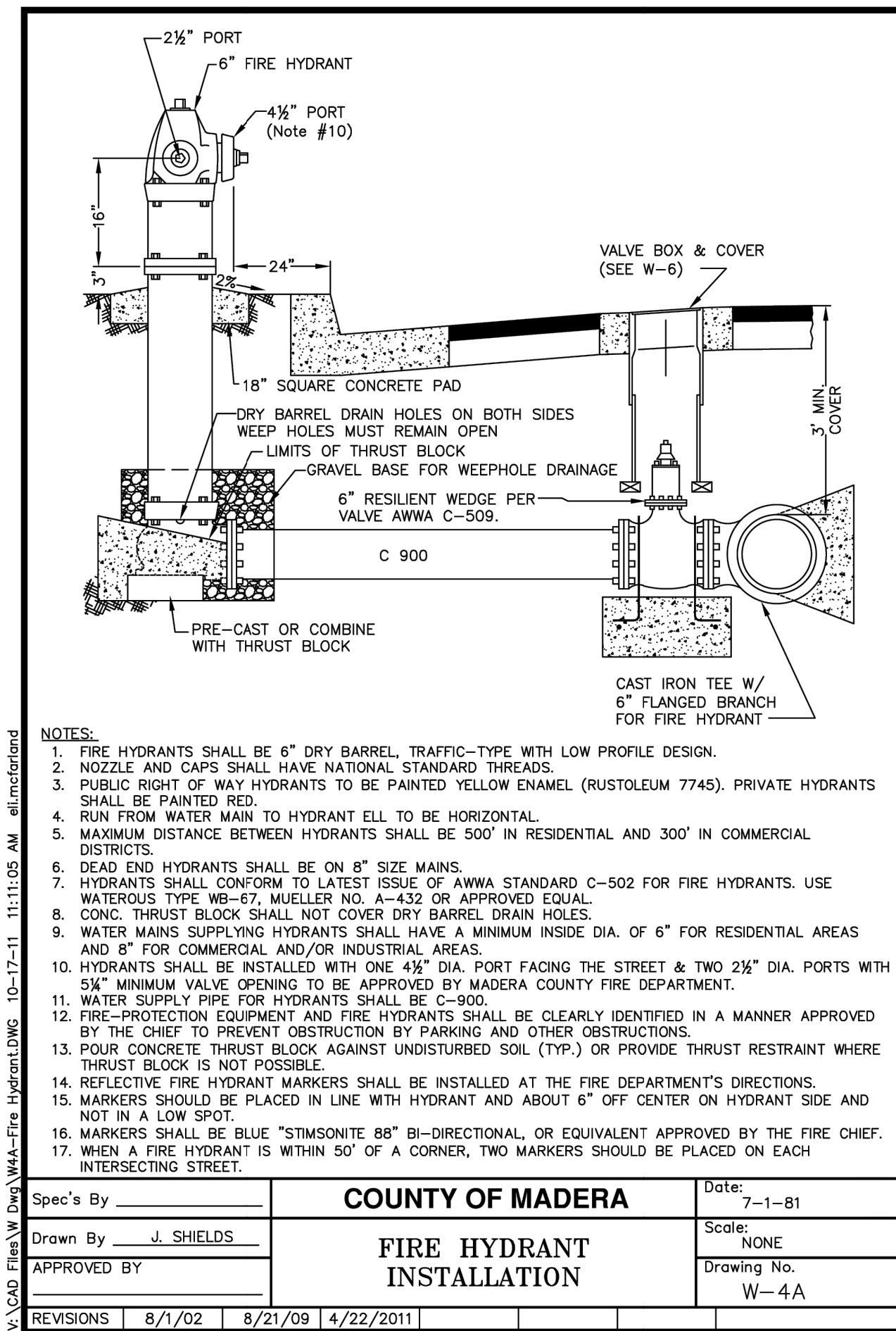
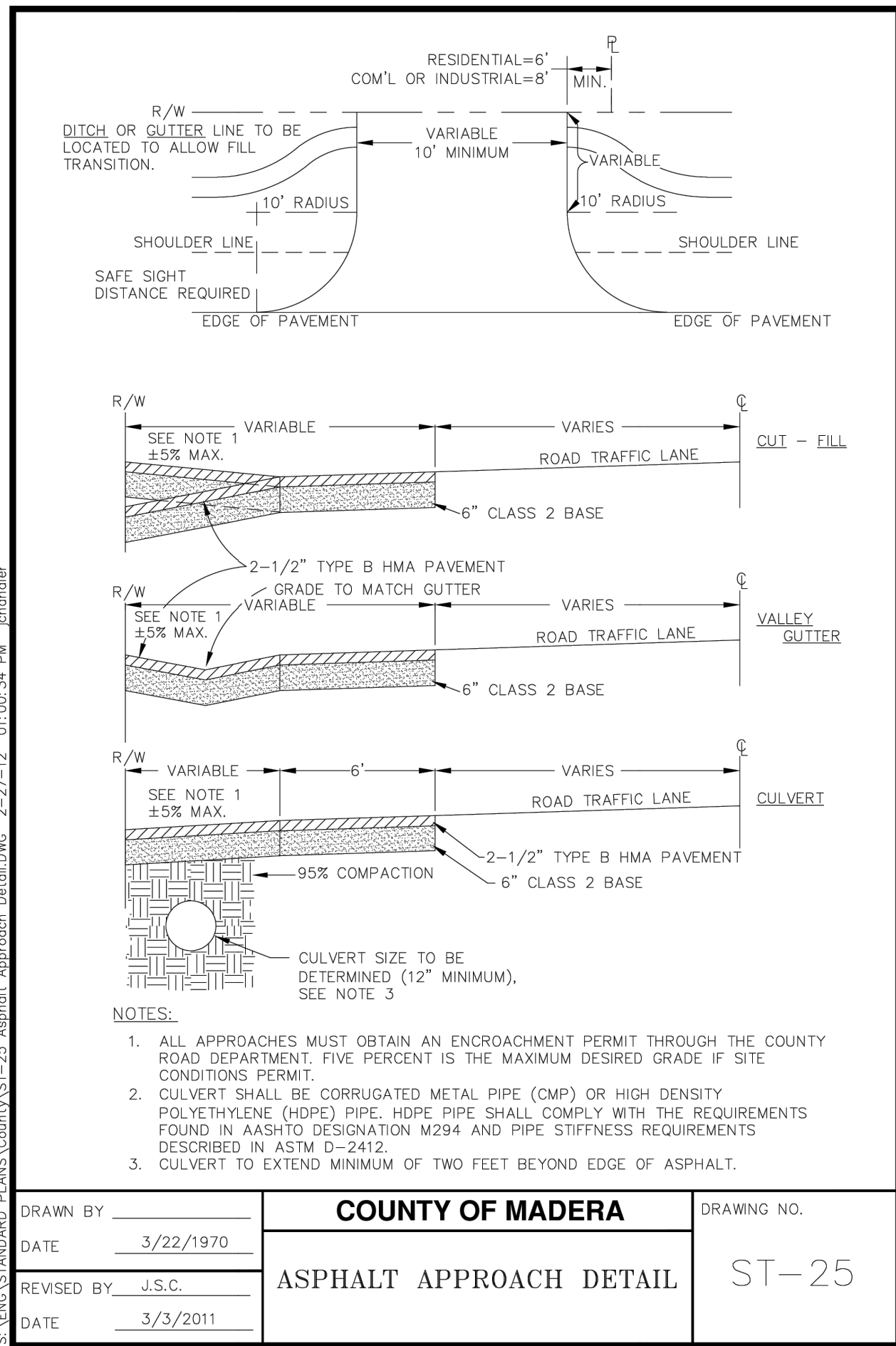
PERMANENT SURVEY MONUMENT DETAIL
NTS



DRAIN WELL DETAIL
NTS



TRANSITION FROM CURB AND GUTTER TO
AC DIKE DETAIL
NTS



USANORTH811.ORG				
REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER

TYRONE PETER

NO. 81888

CIVIL ENGINEER

STATE OF CALIFORNIA

WILLDAN

extending your reach

2401 East Kalinda Ave, Suite 300, Anaheim, California 92806

714/978-8200 fax 714/978-8299

PREPARED UNDER THE SUPERVISION OF

TYRONE PETER

R.C.E. 81888

DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RSL/CL	12/16/24
DESIGNED BY: RSL/JK	12/16/24
CHECKED BY: TP	12/16/24

MADERA COUNTY

ESTABLISHED 1907

READY TO SERVE

COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS

200 W. FOURTH STREET, 3RD FLOOR

MADERA, CA 93637

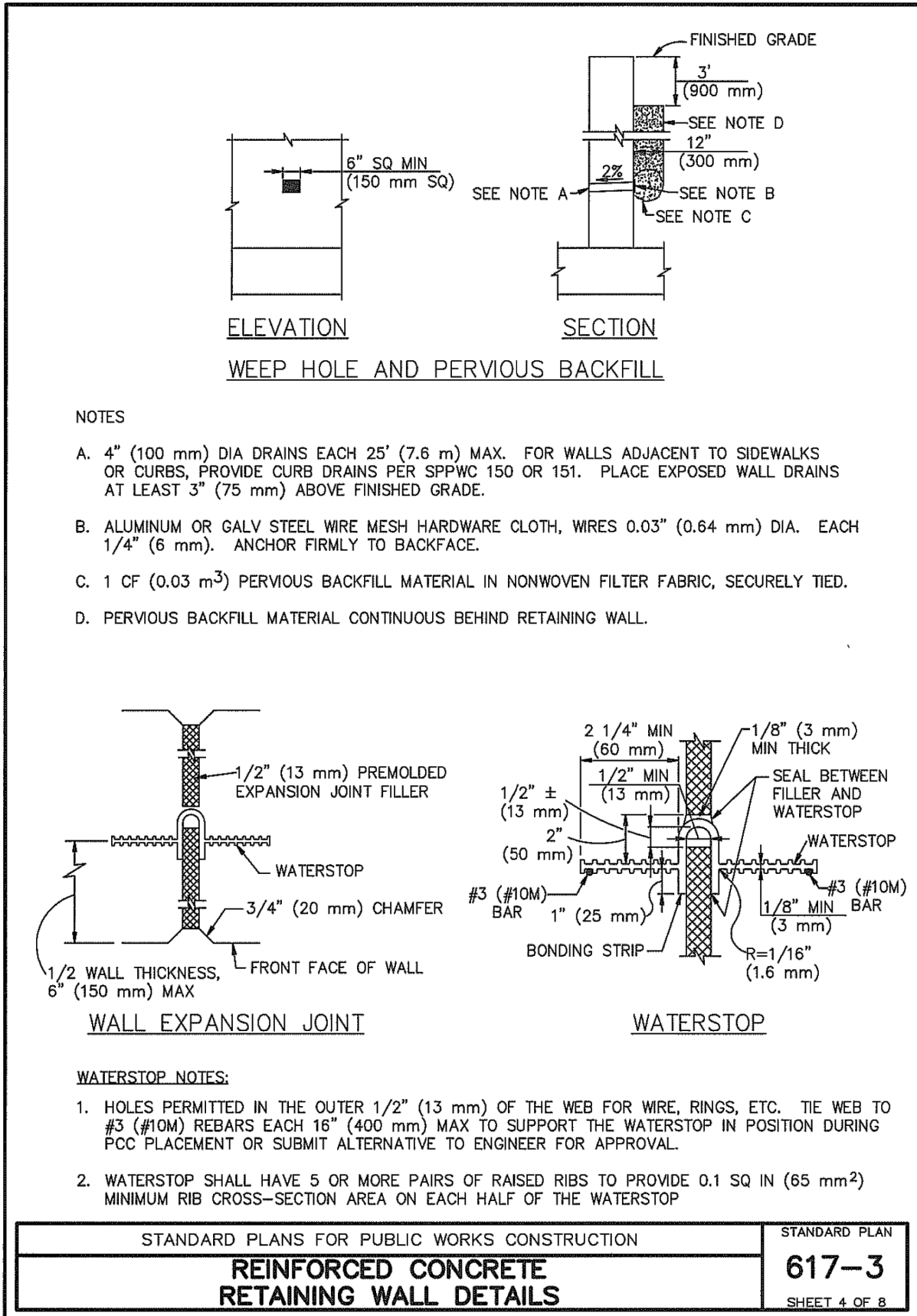
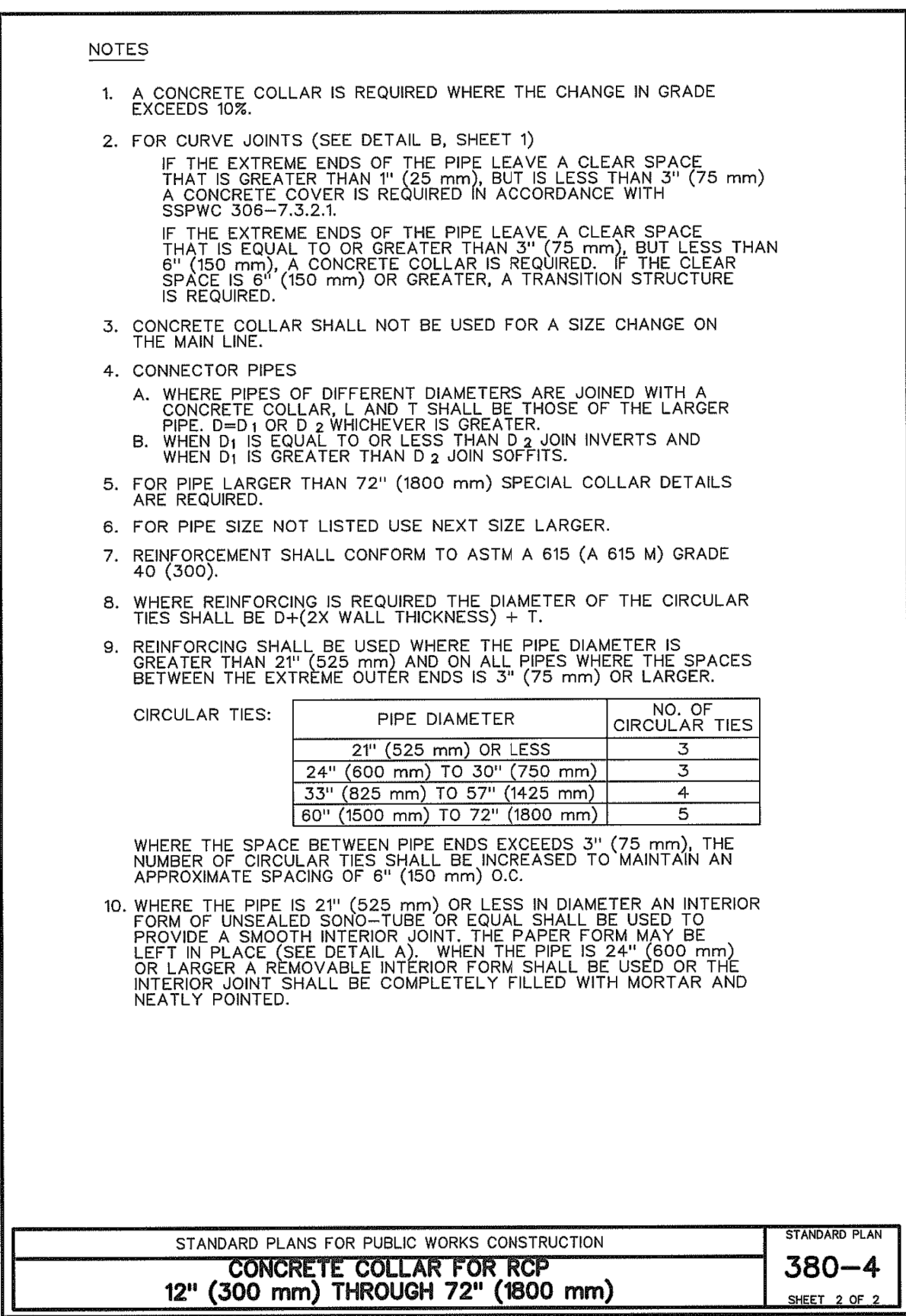
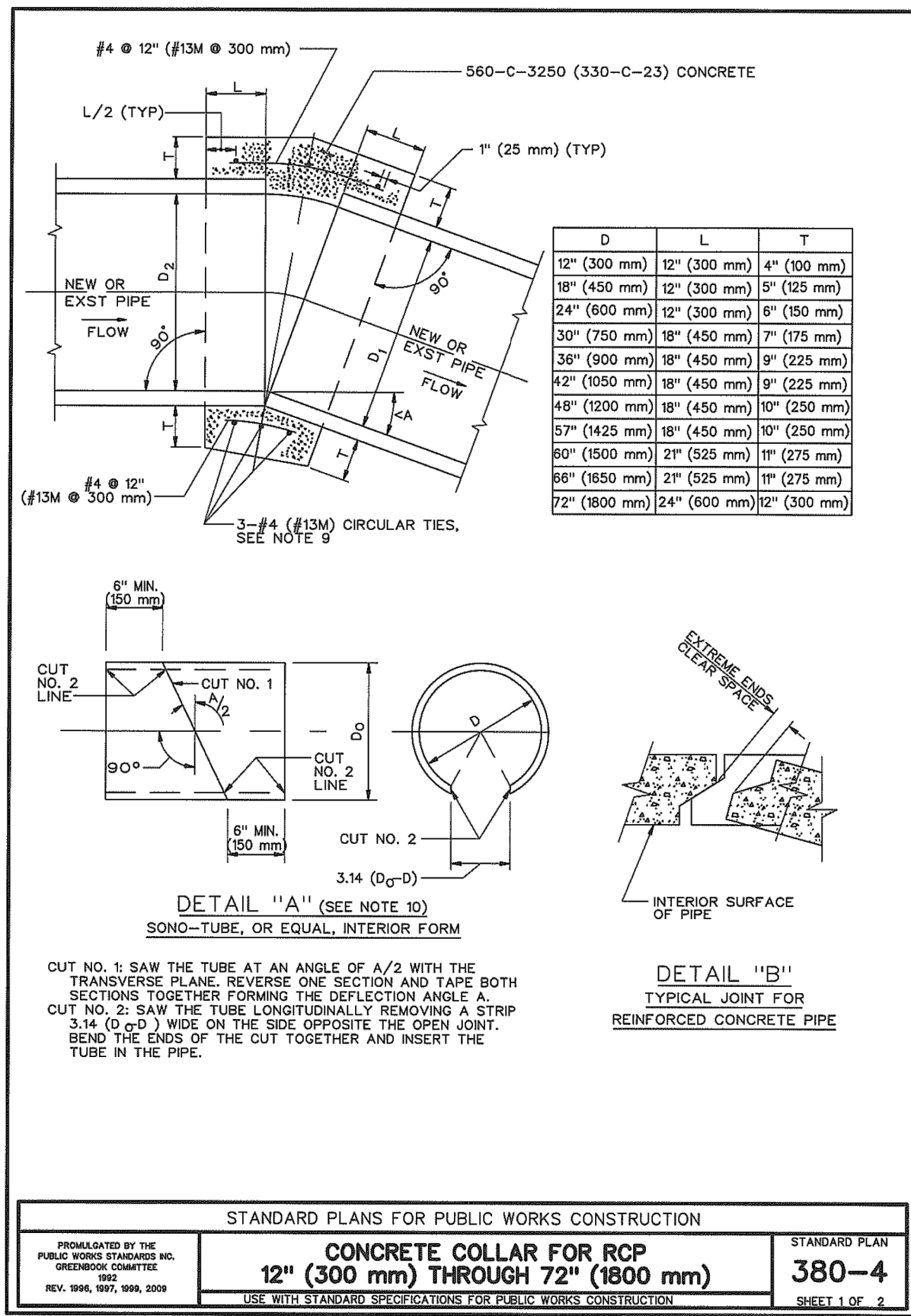
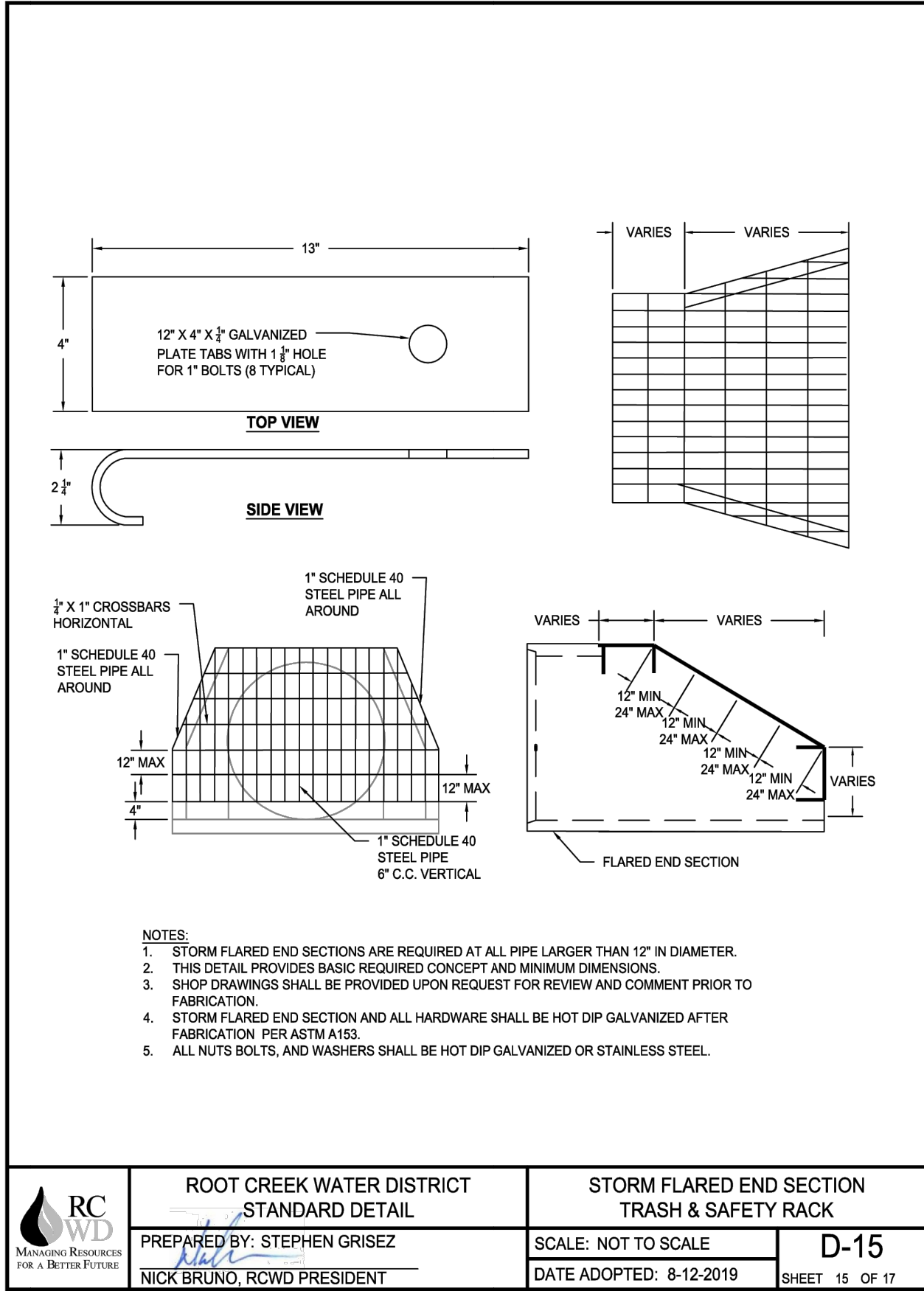
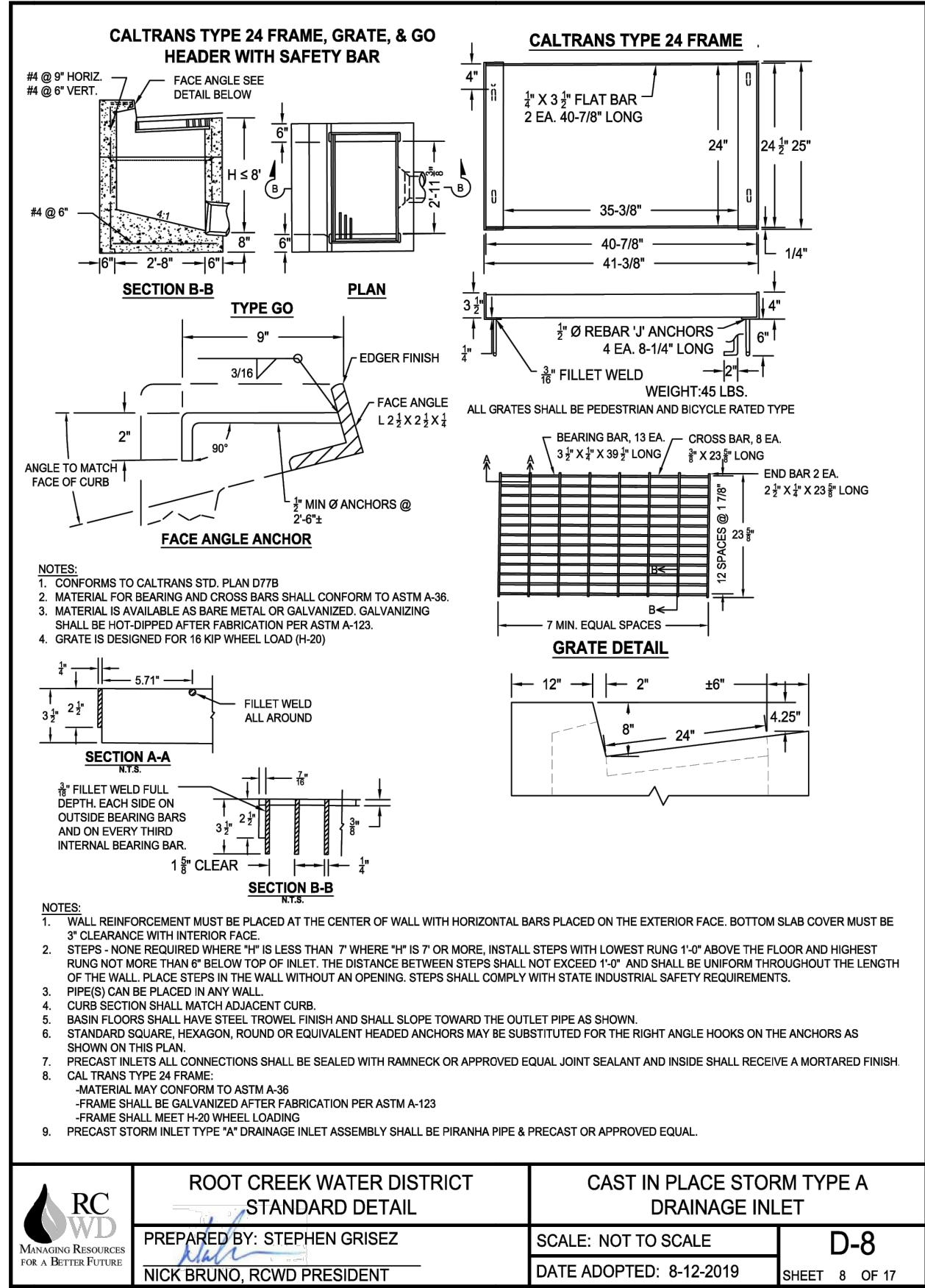
APPROVED

JARED CARTER

DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA		SHEET
AVENUE 12 WIDENING PROJECT		3 OF 49
CONSTRUCTION DETAILS		
DWG. NO.		D-2

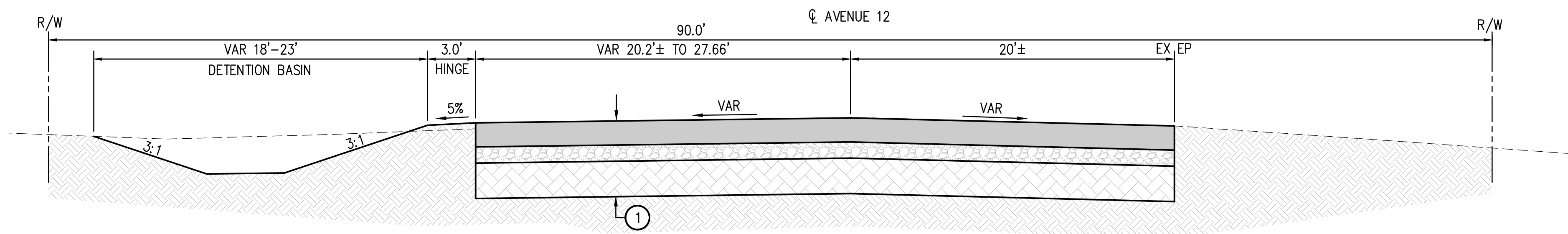


REVISIONS			
NO.	INITIAL	DESCRIPTION	APPROVED BY

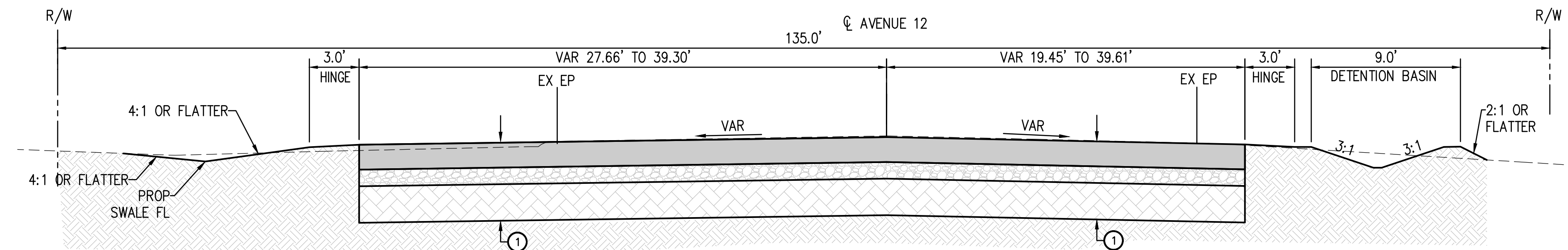
USANORTH11.ORG	811	Know what's below. Call before you dig.

Plotted By: emccracken

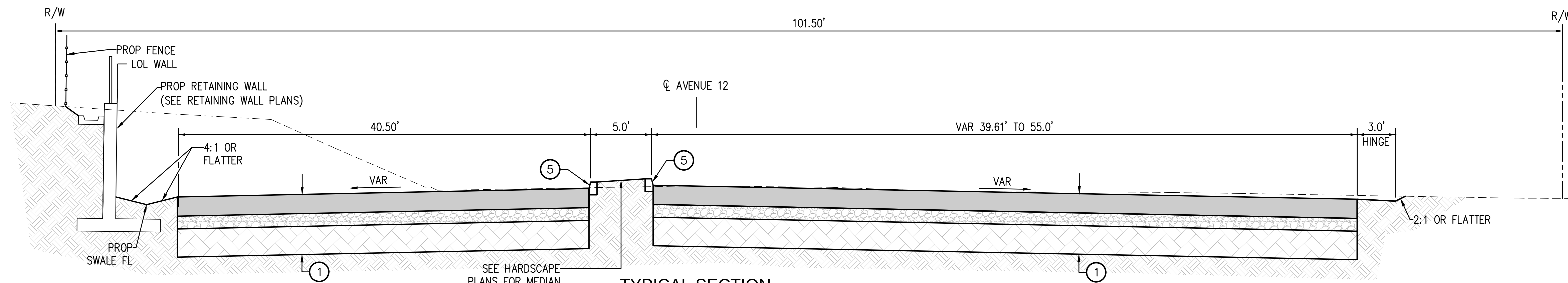
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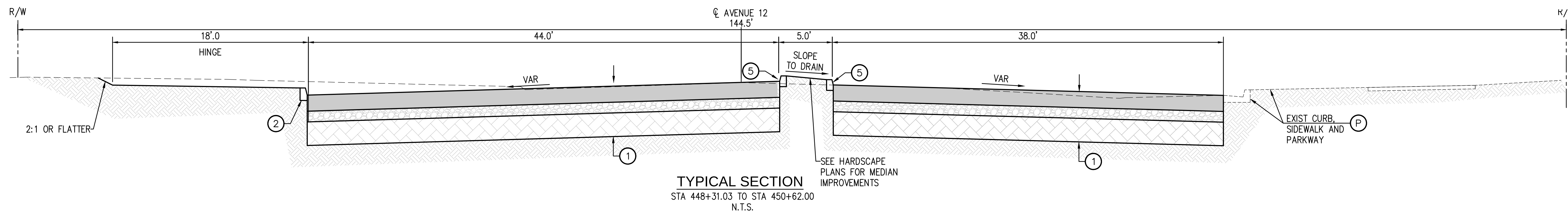
TYPICAL SECTION
STA 433+88.52 TO STA 436+52.25
N.T.S.



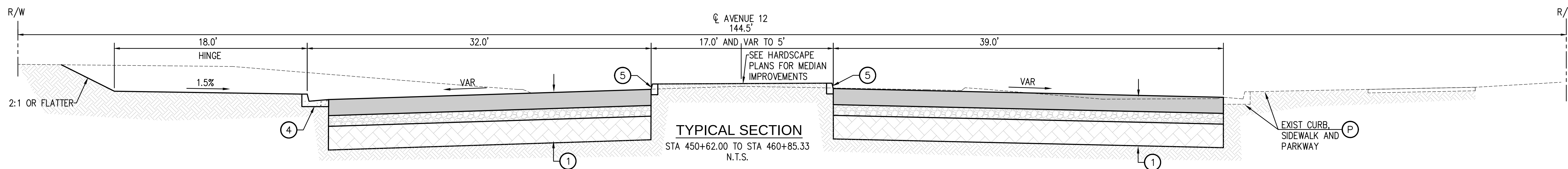
TYPICAL SECTION
STA 436+52.25 TO STA 444+97.72
N.T.S.



TYPICAL SECTION
STA 448+31.03 TO STA 450+62.00
N.T.S.



TYPICAL SECTION
STA 448+31.03 TO STA 450+62.00
N.T.S.



TYPICAL SECTION
STA 450+62.00 TO STA 460+85.33
N.T.S.

LEGEND (FOR TYPICAL SECTIONS)

- CONSTRUCT 8-INCH TYPE A HMA OVER 6-INCH CLASS II AGGREGATE BASE AND 12-INCH AGGREGATE SUBGRADE
- COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
- 6-INCH CLASS II AGGREGATE BASE
- 12-INCH AGGREGATE SUBGRADE
- NATIVE SOIL
- PCC IMPROVEMENTS

CONSTRUCTION NOTES

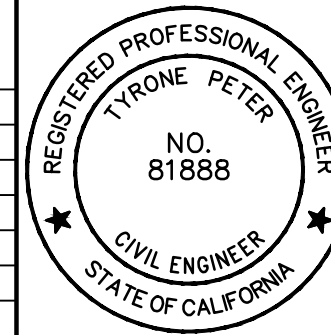
- CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
- CONSTRUCT HMA DIKE PER CALTRANS STD PLAN A87B, TYPE A
- CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A, CASE PER PLAN
- CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- CONSTRUCT 4-INCH PCC SIDEWALK PER DETAIL ON SHEET 3
- RELOCATE FIRE HYDRANT PER COUNTY OF MADERA DWG NO. W-4A. FURNISH AND INSTALL BOLLARDS PER COUNTY OF MADERA DWG NO W-4C
- CONSTRUCT PERMANENT SURVEY MONUMENT PER COUNTY OF MADERA DWG NO E-1
- REMOVE AND CONSTRUCT MODIFIED TYPE A PASSAGEWAY PER CALTRANS STD PLAN A88B
- COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
- CONSTRUCT CURB CUT PER DETAIL ON SHEET 19
- CONSTRUCT CONCRETE DRIVEWAY APPROACH PER CALTRANS STD PLAN A87A
- CONSTRUCT GUARDRAIL PER CALTRANS STD PLAN A77L1
- ADJUST TO GRADE
- PROTECT IN PLACE (ITEM NOTED)
- REMOVE (ITEM NOTED)
- RELOCATE
- RELOCATE BY OTHERS (ITEM NOTED)

USANORTH811.ORG



REVISIONS

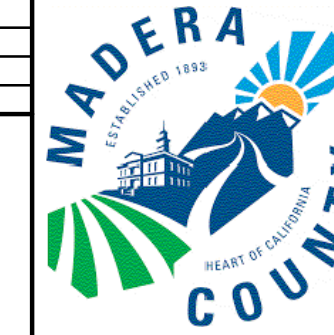
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE:	AS SHOWN	DATE:	12/16/24
DRAWN BY:	RSS/CL	DATE:	12/16/24
DESIGNED BY:	RSS/JK	DATE:	12/16/24
CHECKED BY:	TP	DATE:	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

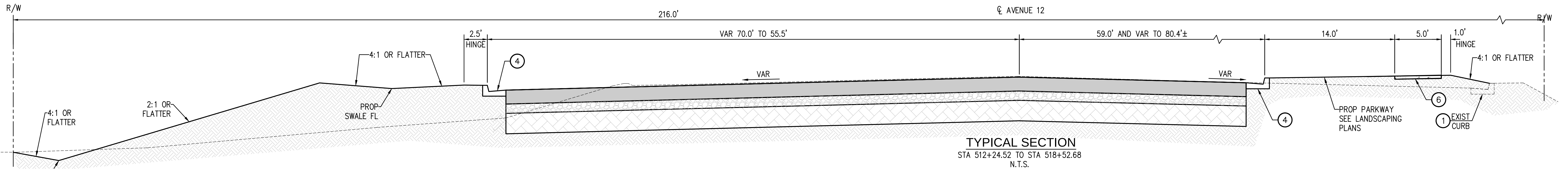
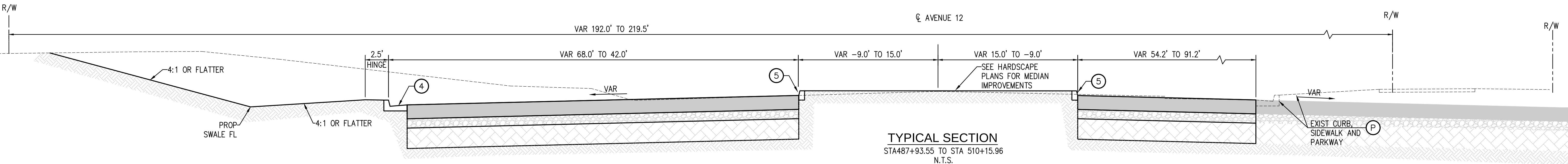
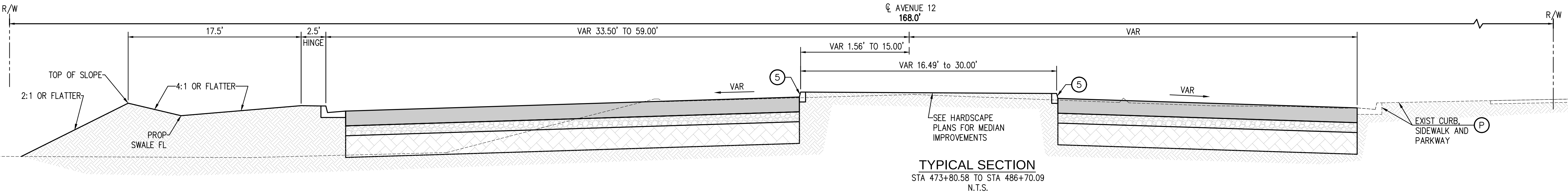
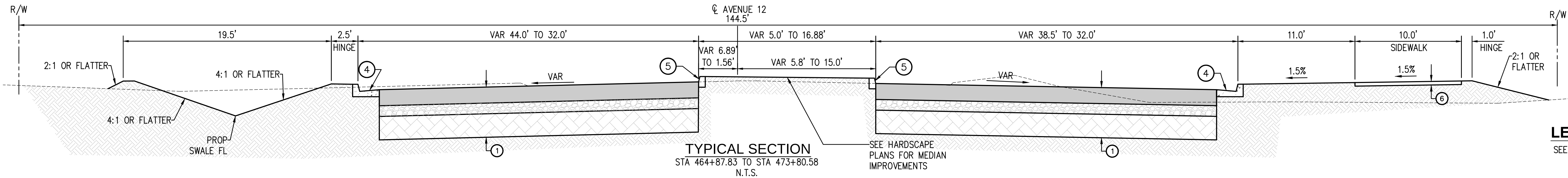
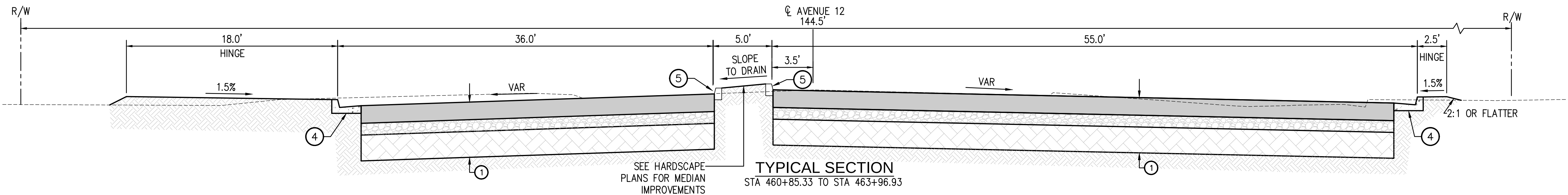
COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT	5 OF 49
TYPICAL SECTIONS	DWG. NO. D-4

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

CONSTRUCTION NOTES

- 1 CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
- 2 CONSTRUCT HMA DIKE PER CALTRANS STD PLAN A87B, TYPE A
- 3 CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A, CASE PER PLAN
- 4 CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- 5 CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- 6 CONSTRUCT 4-INCH PCC SIDEWALK PER DETAIL ON SHEET 3
- 7 RELOCATE FIRE HYDRANT PER COUNTY OF MADERA DWG NO. W-4A. FURNISH AND INSTALL BOLLARDS PER COUNTY OF MADERA DWG NO W-4C
- 8 CONSTRUCT PERMANENT SURVEY MONUMENT PER COUNTY OF MADERA DWG NO E-1
- 9 REMOVE AND CONSTRUCT MODIFIED TYPE A PASSAGEWAY PER CALTRANS STD PLAN A88B
- 10 COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
- P PROTECT IN PLACE (ITEM NOTED)

LEGEND (FOR TYPICAL SECTIONS)
SEE SHEET D-3



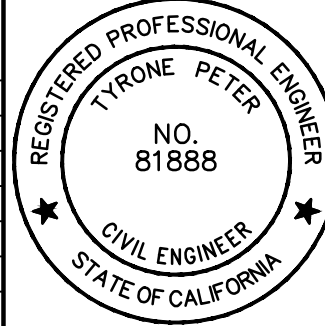
Plotted By: emcraeken

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-153x-901-Plans\PL-SECT-01.dwg Dec 16, 2024 - 6:28pm



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



WILLDAN *extending your reach*
2401 East Kalinda Ave, Suite 300, Anaheim, California 92806
714/978-6200 fax 714/978-6299
PREPARED UNDER THE SUPERVISION OF
TYRONE PETER R.C.E. 81888 DATE

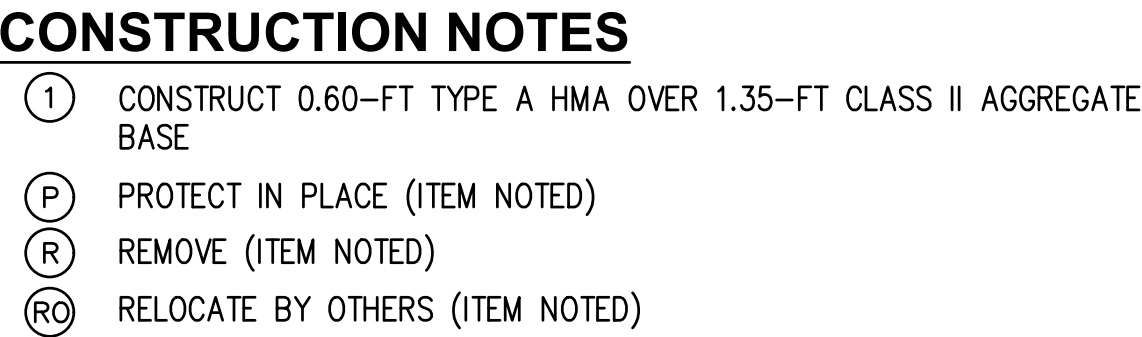
SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RJS/CL	12/16/24
DESIGNED BY: RJS/JK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607
APPROVED: JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS DATE

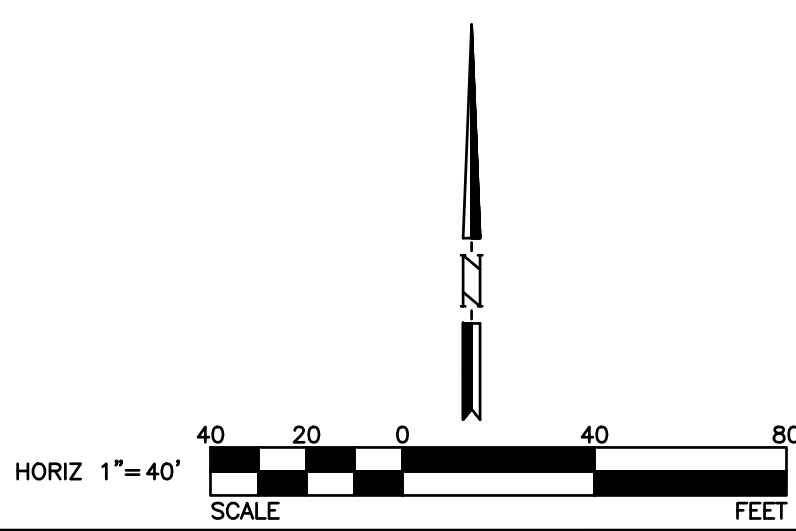
COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
TYPICAL SECTIONS

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



LEGEND:

	CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS AGGREGATE BASE
---	--



AVENUE 12

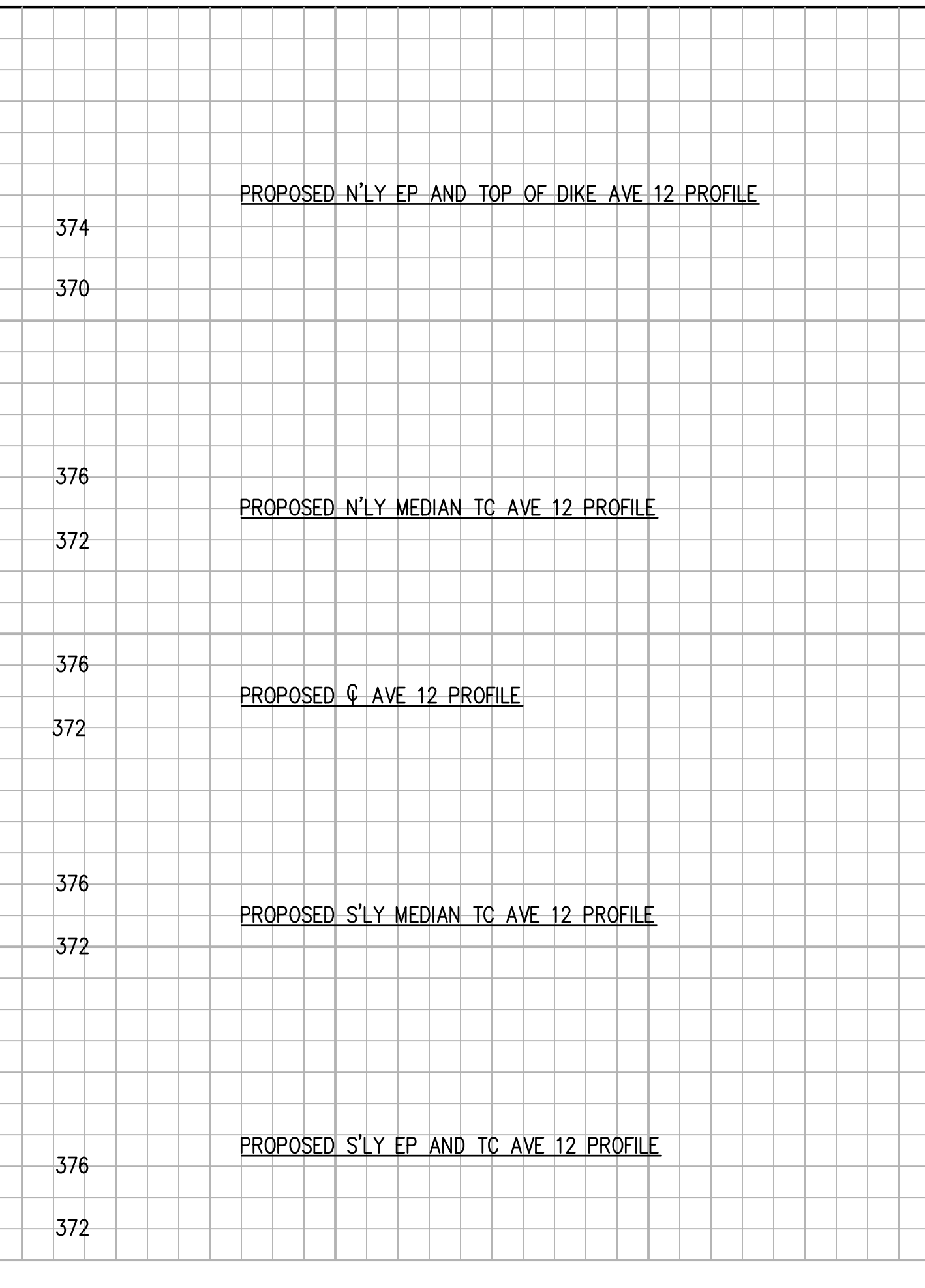
A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two five-pointed stars. The inner circle contains the name "TYRONE PETER", the number "NO. 81888", and the title "CIVIL ENGINEER".

SCALE:	AS SHOWN	DATE
DRAWN BY	RGS_CL	12/16/24
DESIGNED BY	RGS_KK	12/16/24
CHECKED BY	TP	12/16/24

COUNTY OF MADERA	
DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	
APPROVED	
JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS	DATE

SHEET
7 OF 49

DWG. NO.
C-1



- (1) CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
- (2) CONSTRUCT HMA DIKE PER CALTRANS STD PLAN A87B, TYPE A
- (3) CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A, CASE PER PLAN
- (4) CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- (5) CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- (8) CONSTRUCT PERMANENT SURVEY MONUMENT PER COUNTY OF MADERA DWG NO E-1
- (10) COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
- (A) ADJUST TO GRADE
- (P) PROTECT IN PLACE (ITEM NOTED)
- (R) REMOVE (ITEM NOTED)
- (RO) RELOCATE BY OTHERS (ITEM NOTED)

	CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
	COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
	PCC IMPROVEMENTS

HORIZ 1" = 40'

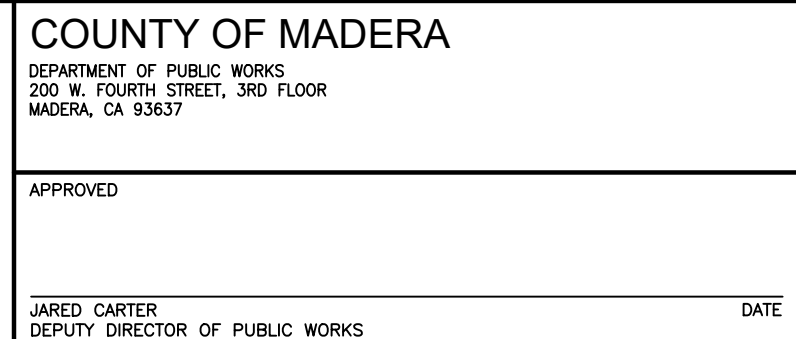
A horizontal scale bar with a black and white checkerboard pattern. The top is labeled with 40, 20, 0, 40, and 80. The bottom is labeled with SCALE and FEET. The text 'HORIZ 1" = 40\'' is to the left.



ROAD 40

REGISTERED PROFESSIONAL ENGINEER
TYRONE PETER
NO.
81888
CIVIL ENGINEER
STATE OF CALIFORNIA

SCALE:	AS SHOWN	DATE
DRAWN BY	RSS,CL	12/16/24
DESIGNED BY	RSS,JK	12/16/24
CHECKED BY	TP	12/16/24



COUNTY OF MADERA

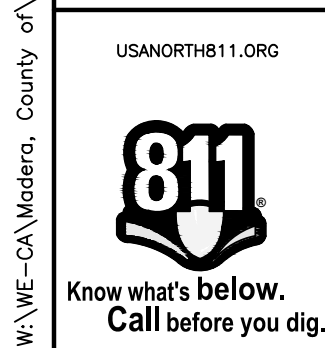
AVENUE 12 WIDENING PROJECT

STREET IMPROVEMENT PLAN AND PROFILE

STATION 440+50 TO 449+50

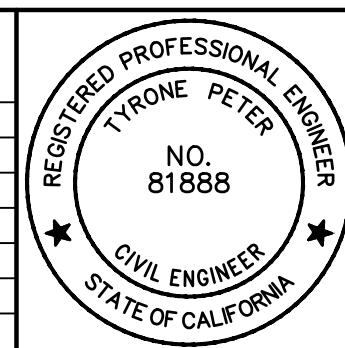
Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-F&E\901-Plans\PL-ROAD-03.dwg Dec 16, 2024 -- 6:16pm



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



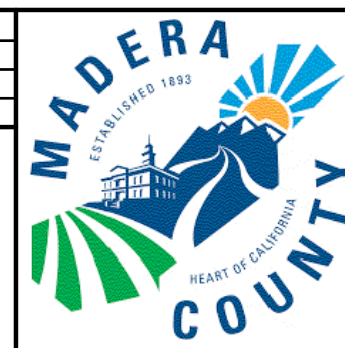
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714/978-8200 fax 714/978-8299

PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RJS/CL	12/16/24
DESIGNED BY: RJS/KK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
STREET IMPROVEMENT PLAN AND PROFILE
STATION 449+50 TO 458+50

MATCH LINE 449+50
SEE SHEET 8

MATCH LINE 458+50
SEE SHEET 10

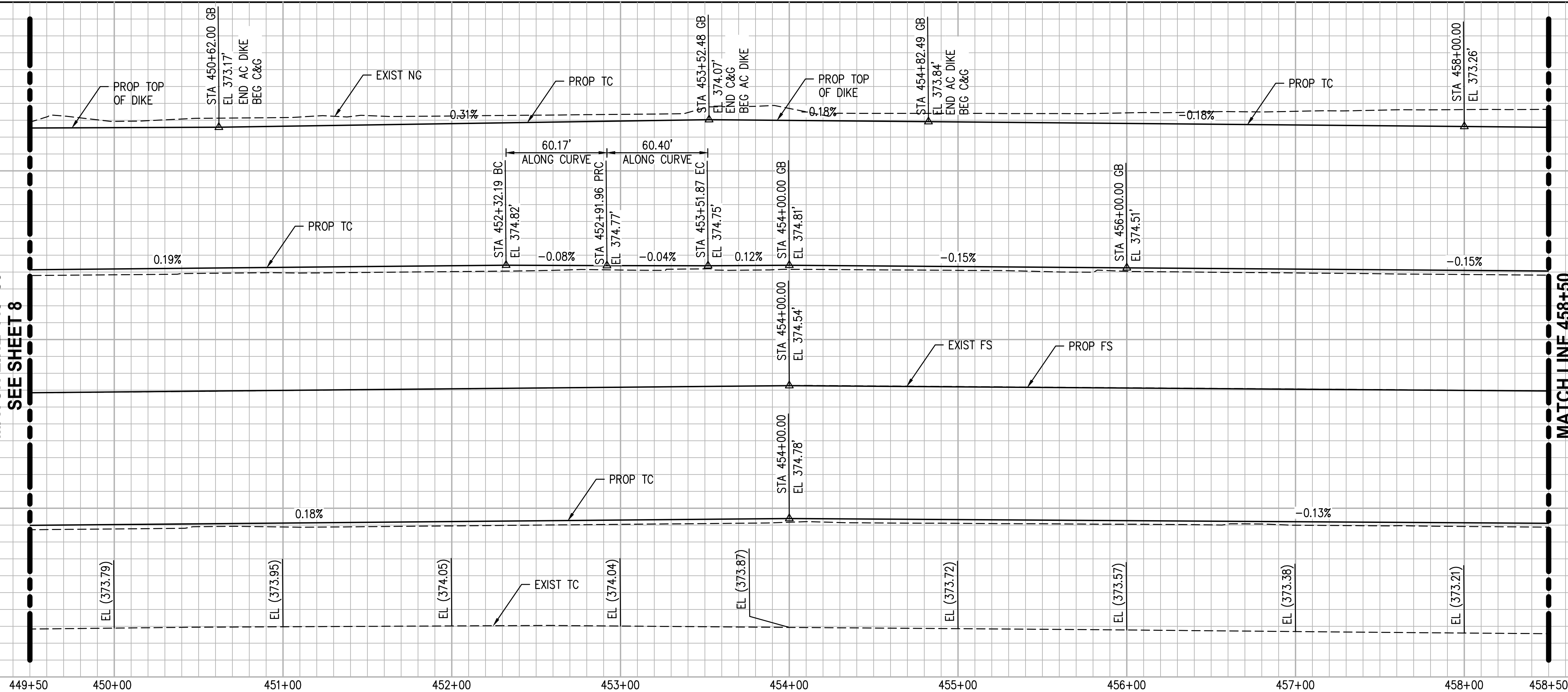
RIVERSTONE BLVD NW
(FUTURE)

MATCH LINE 449+50
SEE SHEET 8

MATCH LINE 458+50
SEE SHEET 10

AVENUE 12

PROFILE SCALE
HORIZ.: 1"= 40'
VERT.: 1"= 8'



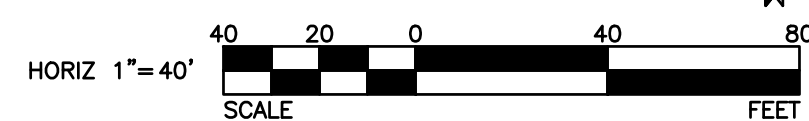
CONSTRUCTION NOTES

- 1 CONSTRUCT 0.60--FT TYPE A HMA OVER 1.35--FT CLASS II AGGREGATE BASE
- 2 CONSTRUCT HMA DIKE PER CALTRANS STD PLAN A87B, TYPE A
- 4 CONSTRUCT A2--8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- 5 CONSTRUCT A1--6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- 17 CONSTRUCT TRANSITION FROM CURB AND GUTTER TO AC DIKE PER DETAIL ON SHEET 3
- P PROTECT IN PLACE (ITEM NOTED)
- R REMOVE (ITEM NOTED)
- RL RELOCATE
- RO RELOCATE BY OTHERS (ITEM NOTED)

LEGEND:

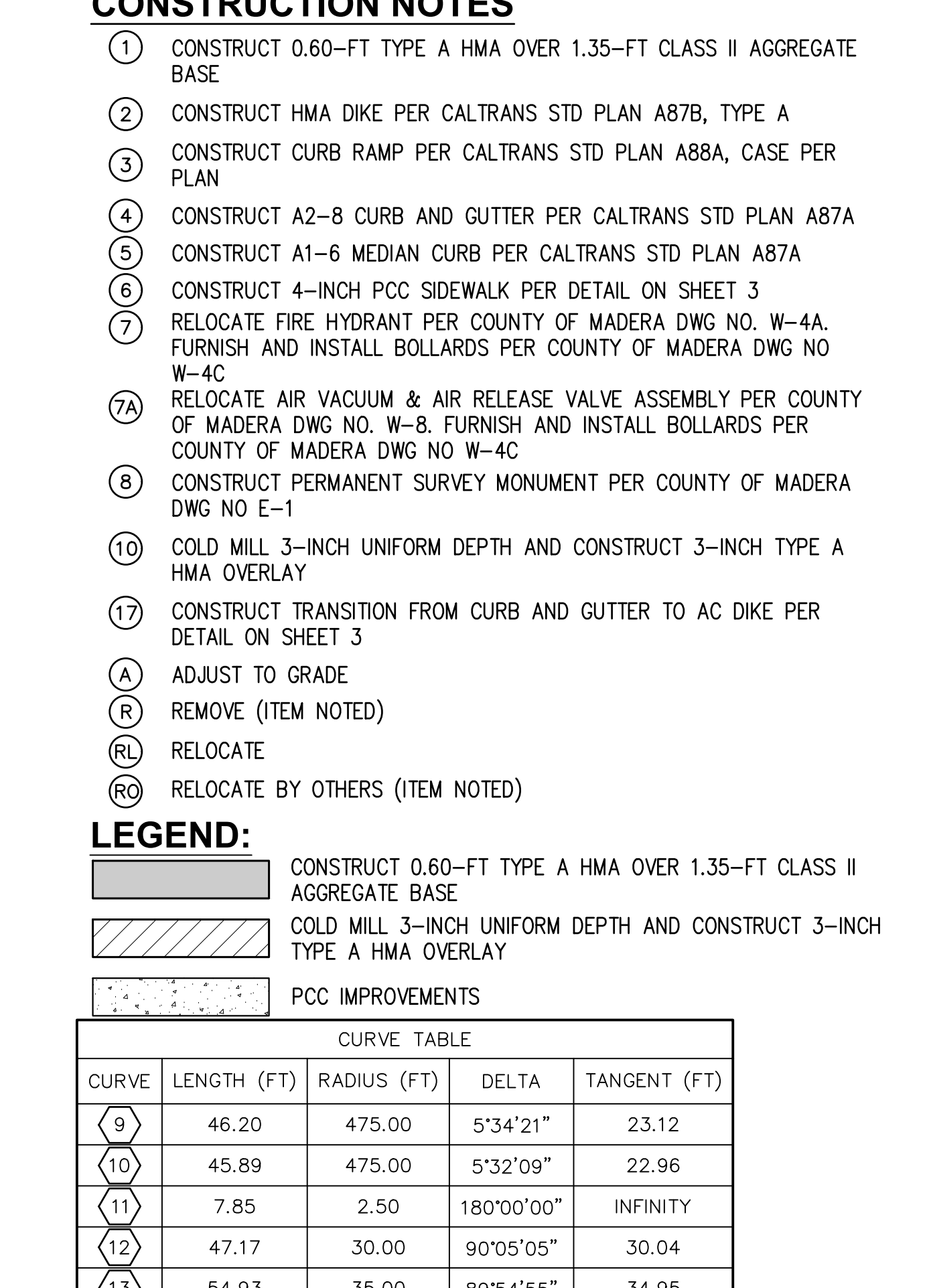
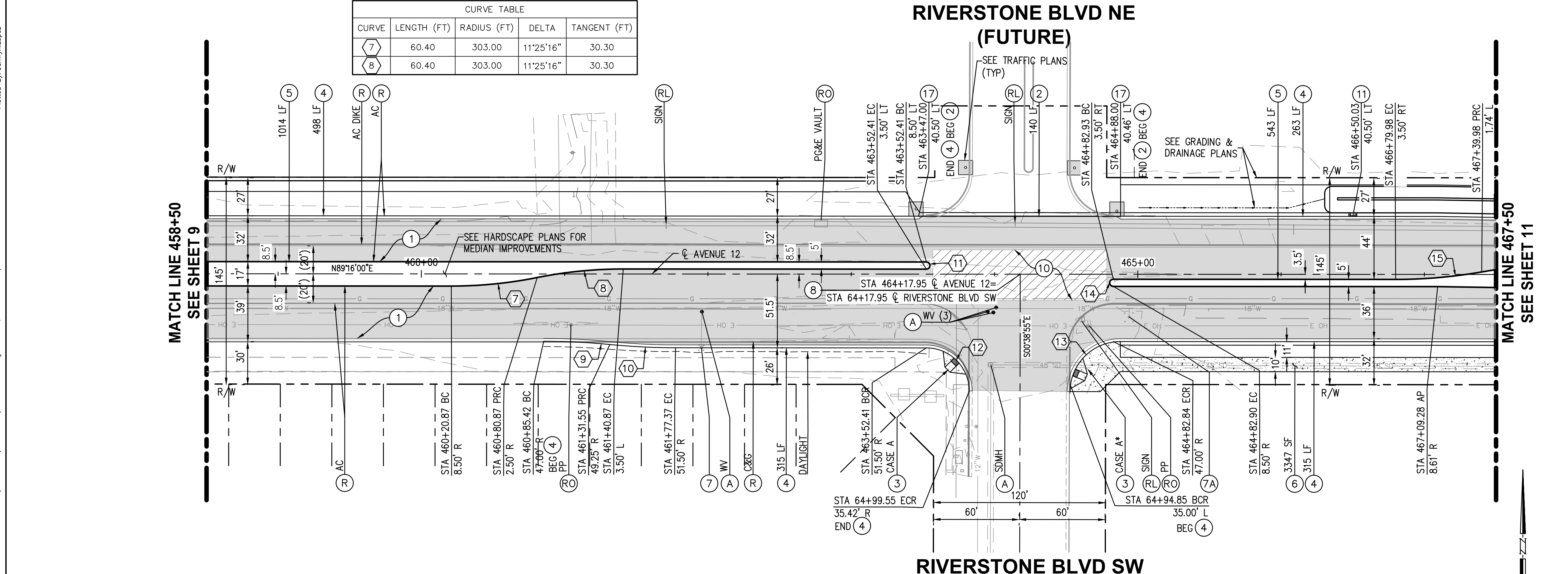
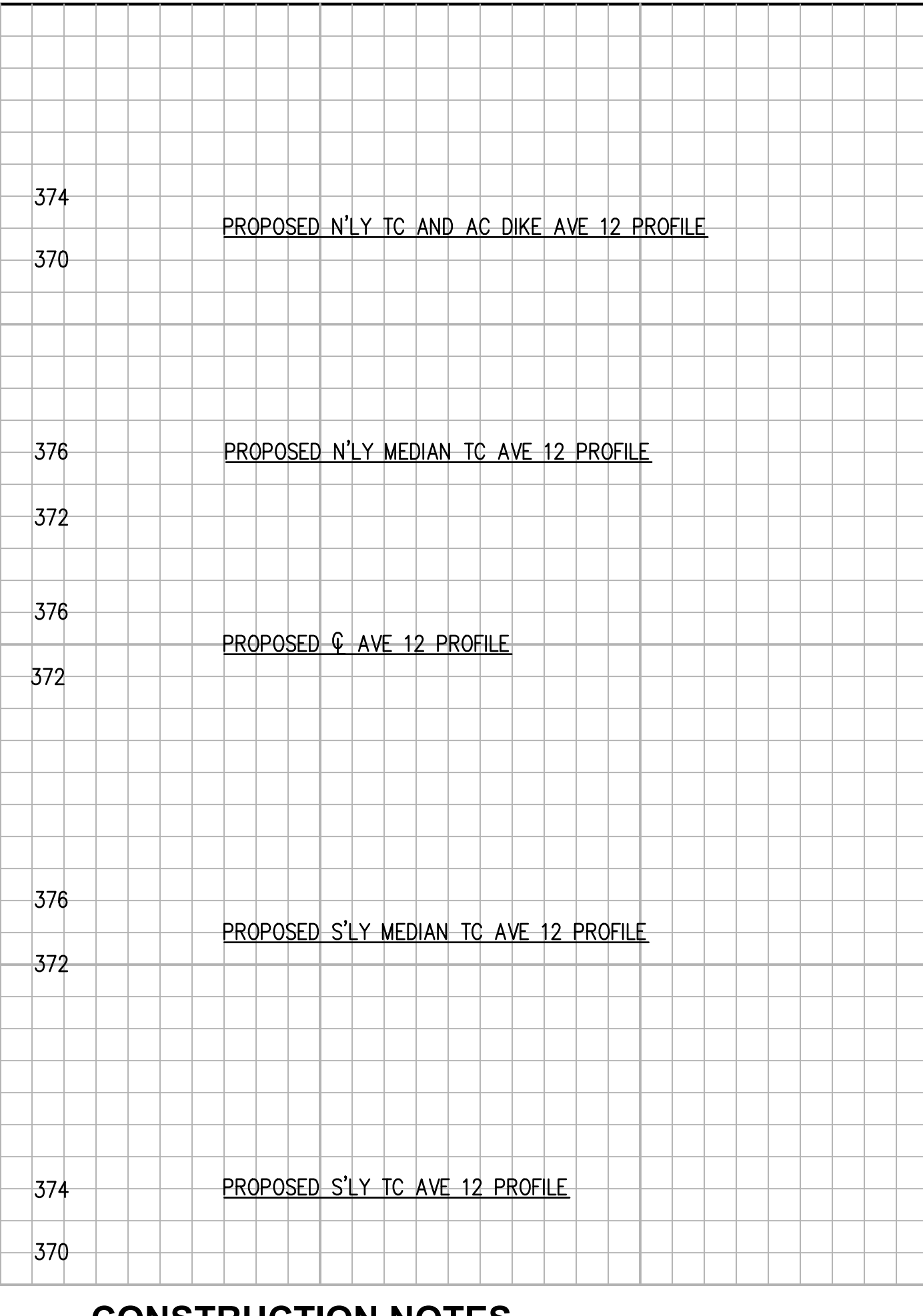
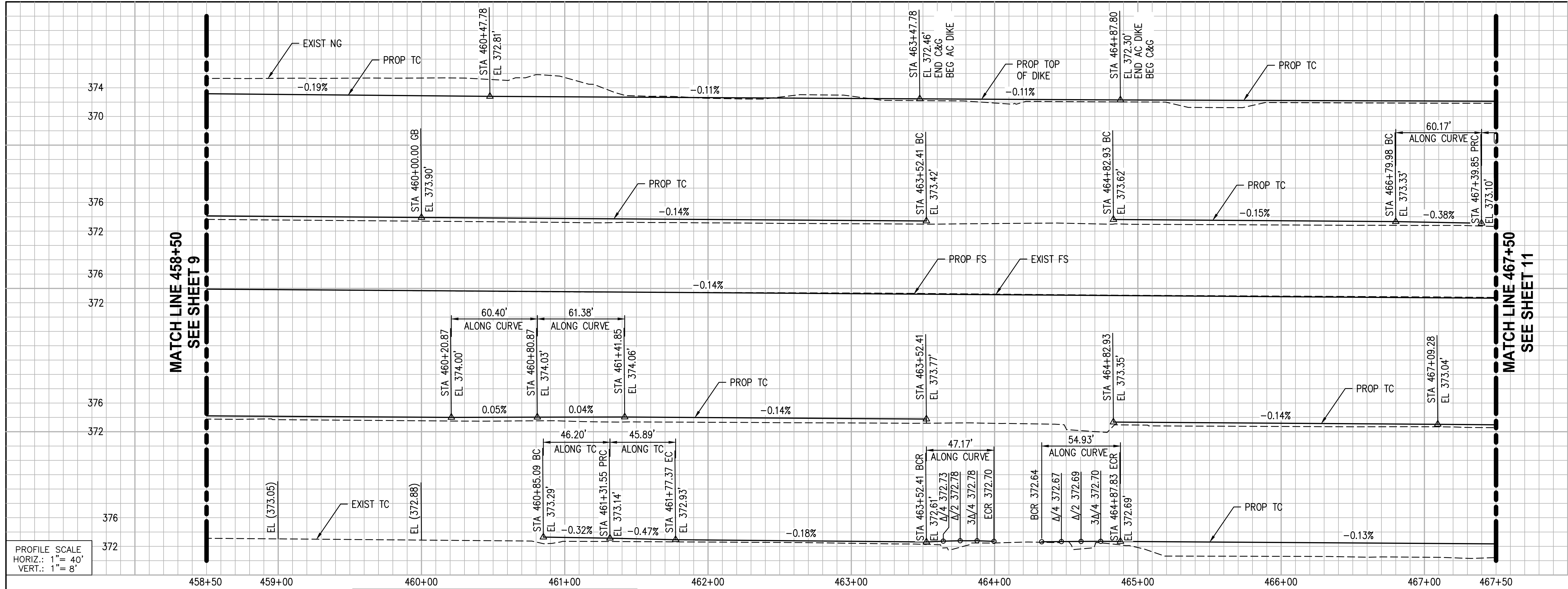
CONSTRUCT 0.60--FT TYPE A HMA OVER 1.35--FT CLASS II AGGREGATE BASE

CURVE TABLE				
CURVE	LENGTH (FT)	RADIUS (FT)	DELTA	TANGENT (FT)
5	60.40	303.00	11°25'16"	30.30
6	60.40	303.00	11°25'16"	30.30



Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 900-FS&E\901-Plans\PL-ROAD-04.dwg Dec 16, 2024 - 6:16pm



NOTE:
*CURB RAMP SHALL BE CENTERED AT Δ/4

USANORTH11.00G

811
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REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
TYRONE PETER
NO. 81888
CIVIL ENGINEER
STATE OF CALIFORNIA

WILLDAN
extending your reach
2401 East Kalate Ave, Suite 300, Anaheim, California 92806
714/979-8200 fax 714/979-8299
PREPARED UNDER THE SUPERVISION OF
TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN
DRAWN BY: RSC/L
DESIGNED BY: RSK/K
CHECKED BY: TP
DATE: 12/16/24
DATE: 12/16/24
DATE: 12/16/24

MADERA COUNTY
COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637
APPROVED: JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS
DATE:

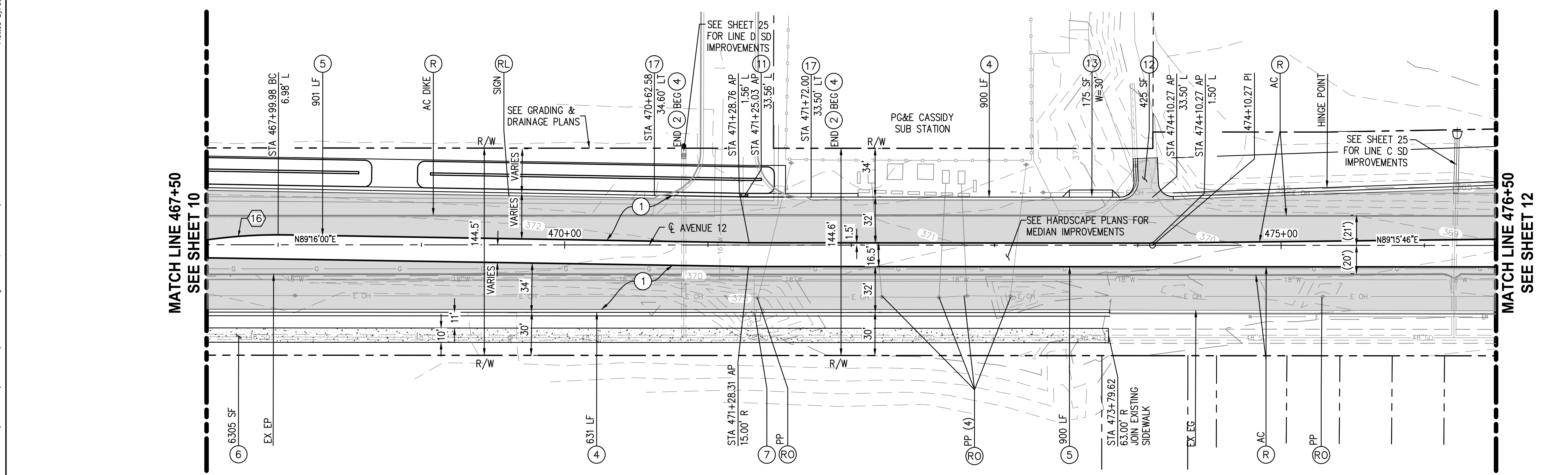
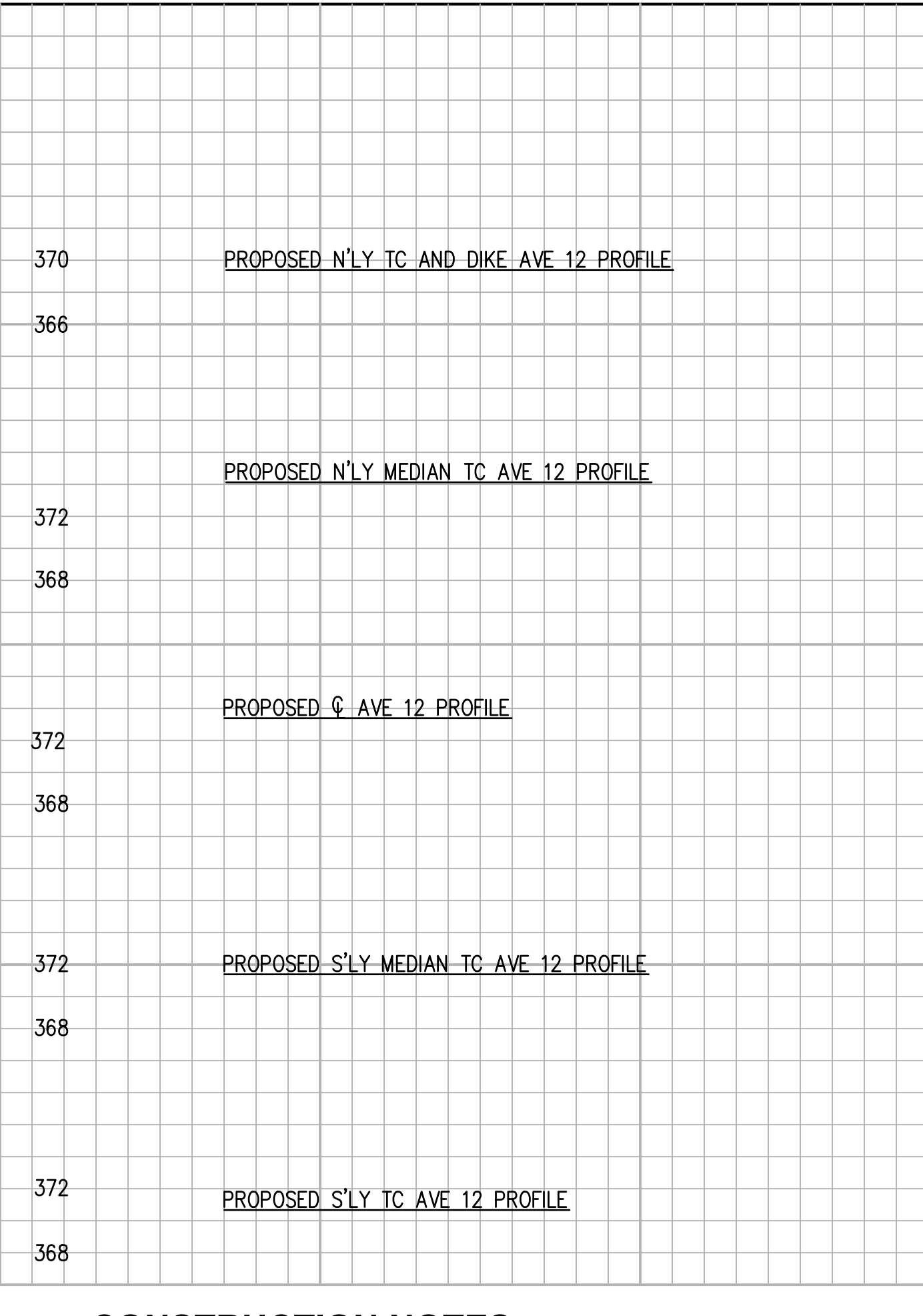
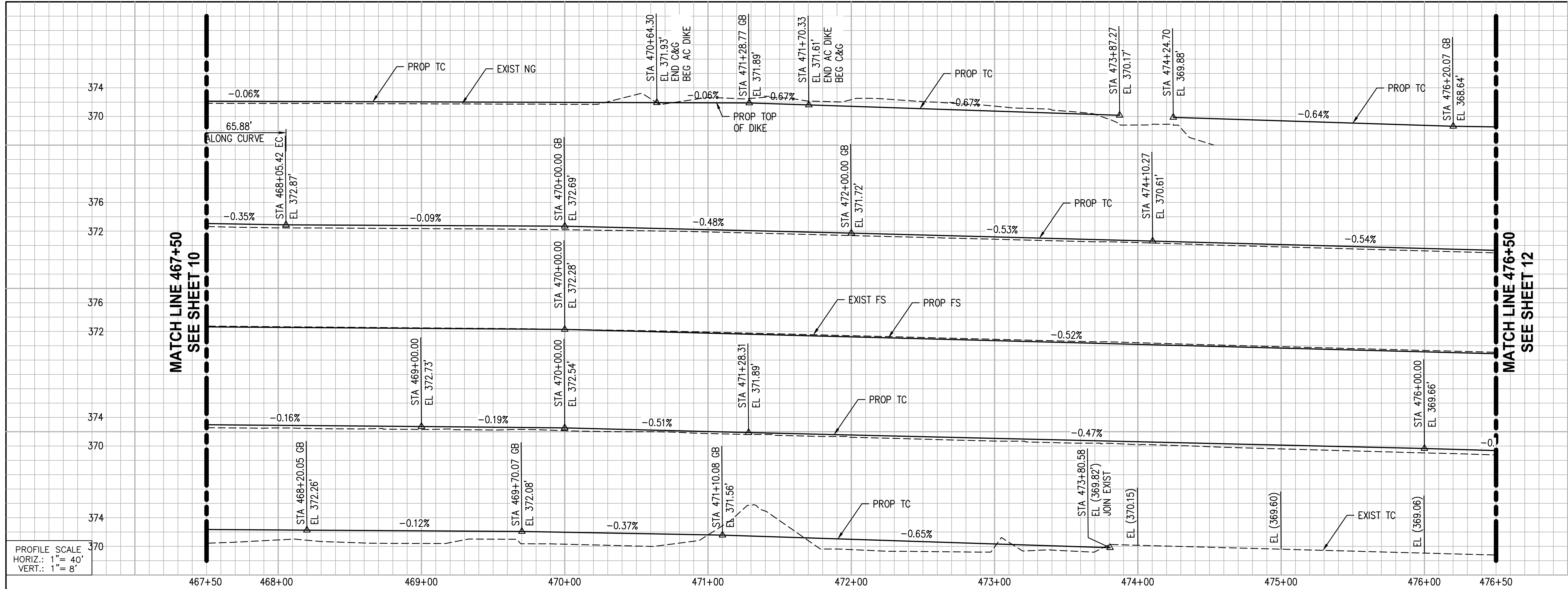
COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
STREET IMPROVEMENT PLAN AND PROFILE
STATION 458+50 TO 467+50

SHEET
10 OF 49
DWG. NO.
C-4

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-ES&E\901-Plans\PL-ROAD-05.dwg Dec 16, 2024 - 6:17pm



AVENUE 12

USANORTH811.ORG

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REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
TYRONE PETER
NO. 81888
CIVIL ENGINEER
STATE OF CALIFORNIA

WILLDAN
2401 East Kalinda Ave, Suite 300, Anaheim, California 92806
714/979-8200 fax 714/979-8299
PREPARED UNDER THE SUPERVISION OF
TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN
DRAWN BY: RSL/CL
DESIGNED BY: RSL/KY
CHECKED BY: TP

DATE: 12/16/24
12/16/24
12/16/24

MADERA COUNTY
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

COUNTY OF MADERA
APPROVED: JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS DATE

COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
STREET IMPROVEMENT PLAN AND PROFILE
STATION 467+50 TO 476+50

SHEET
11 OF 49
DWG. NO.
C-5

CONSTRUCTION NOTES

- CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
- CONSTRUCT HMA DIKE PER CALTRANS STD PLAN A87B, TYPE A
- CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- CONSTRUCT 4-INCH PCC SIDEWALK PER DETAIL ON SHEET 3
- RELOCATE FIRE HYDRANT PER COUNTY OF MADERA DWG NO. W-4A. FURNISH AND INSTALL BOLLARDS PER COUNTY OF MADERA DWG NO W-4C
- CONSTRUCT CURB CUT PER DETAIL ON SHEET 19
- CONSTRUCT CONCRETE DRIVEWAY APPROACH PER CALTRANS STD PLAN A87A
- CONSTRUCT ASPHALT DRIVEWAY APPROACH PER COUNTY OF MADERA DWG ON ST-25
- CONSTRUCT TRANSITION FROM CURB AND GUTTER TO AC DIKE PER DETAIL ON SHEET 3
- PROTECT IN PLACE (ITEM NOTED)
- REMOVE (ITEM NOTED)
- RELOCATE
- RELOCATE BY OTHERS (ITEM NOTED)

LEGEND:

CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE

COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY

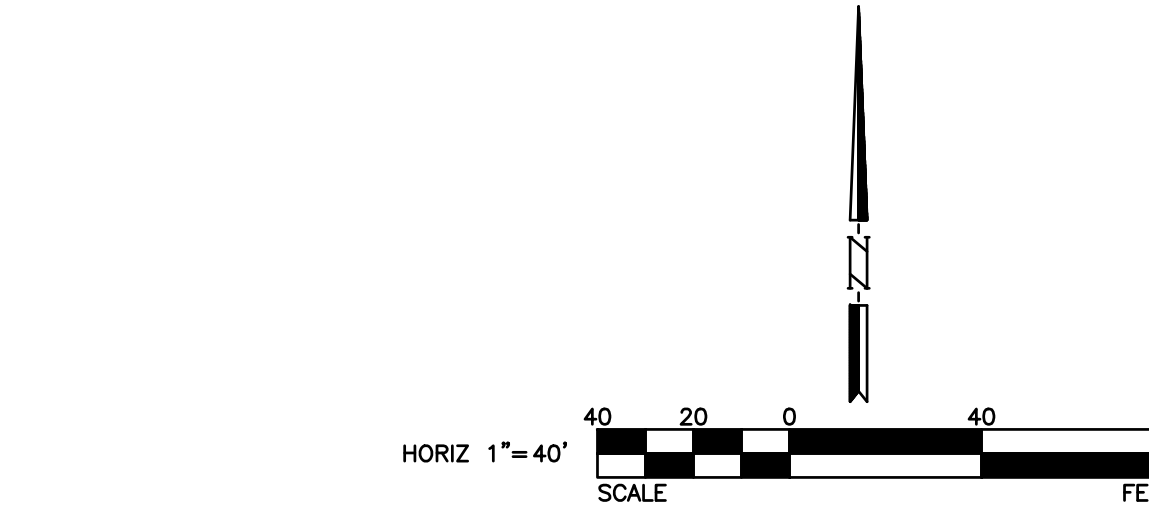
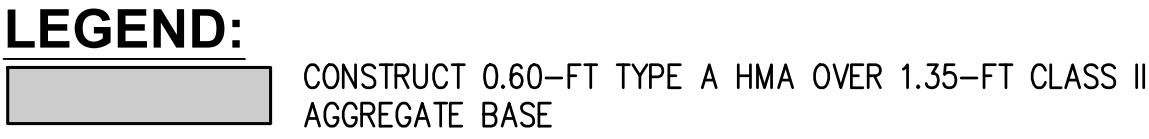
PCC IMPROVEMENTS

CURVE TABLE			
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16	65.88	346.00	10°54'35"

HORIZ 1"= 40'

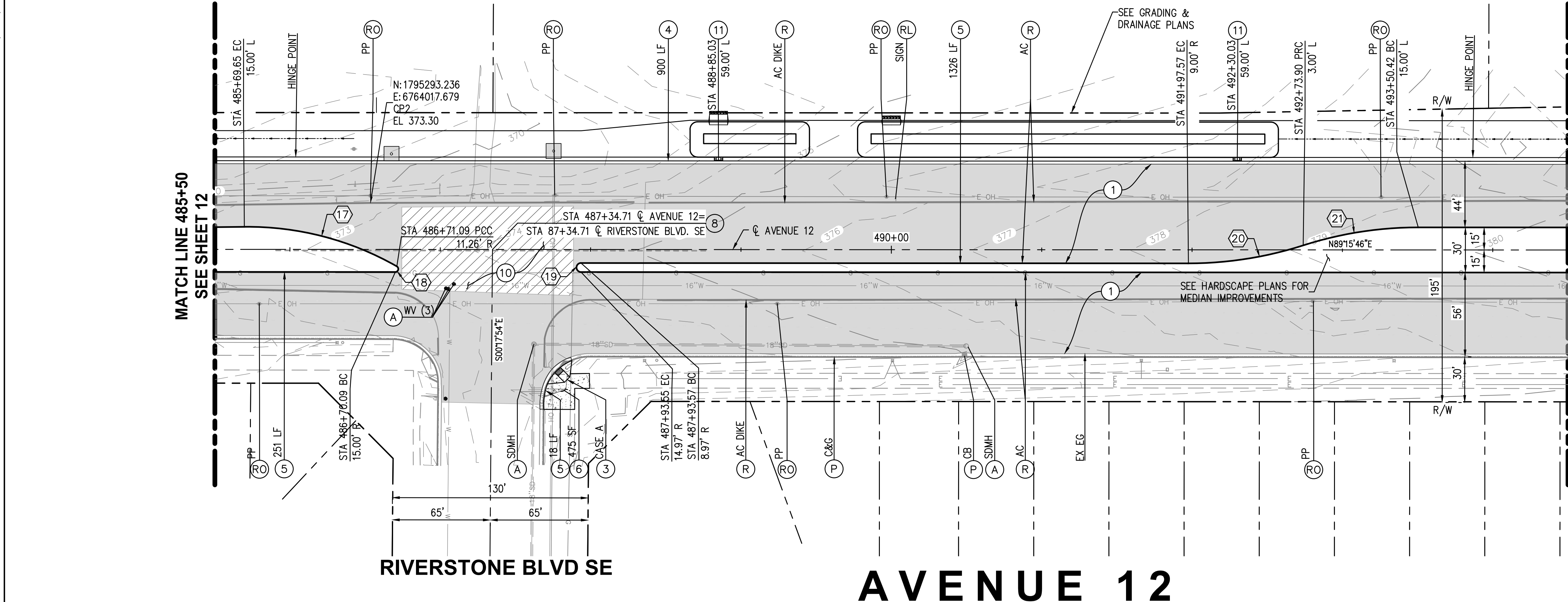
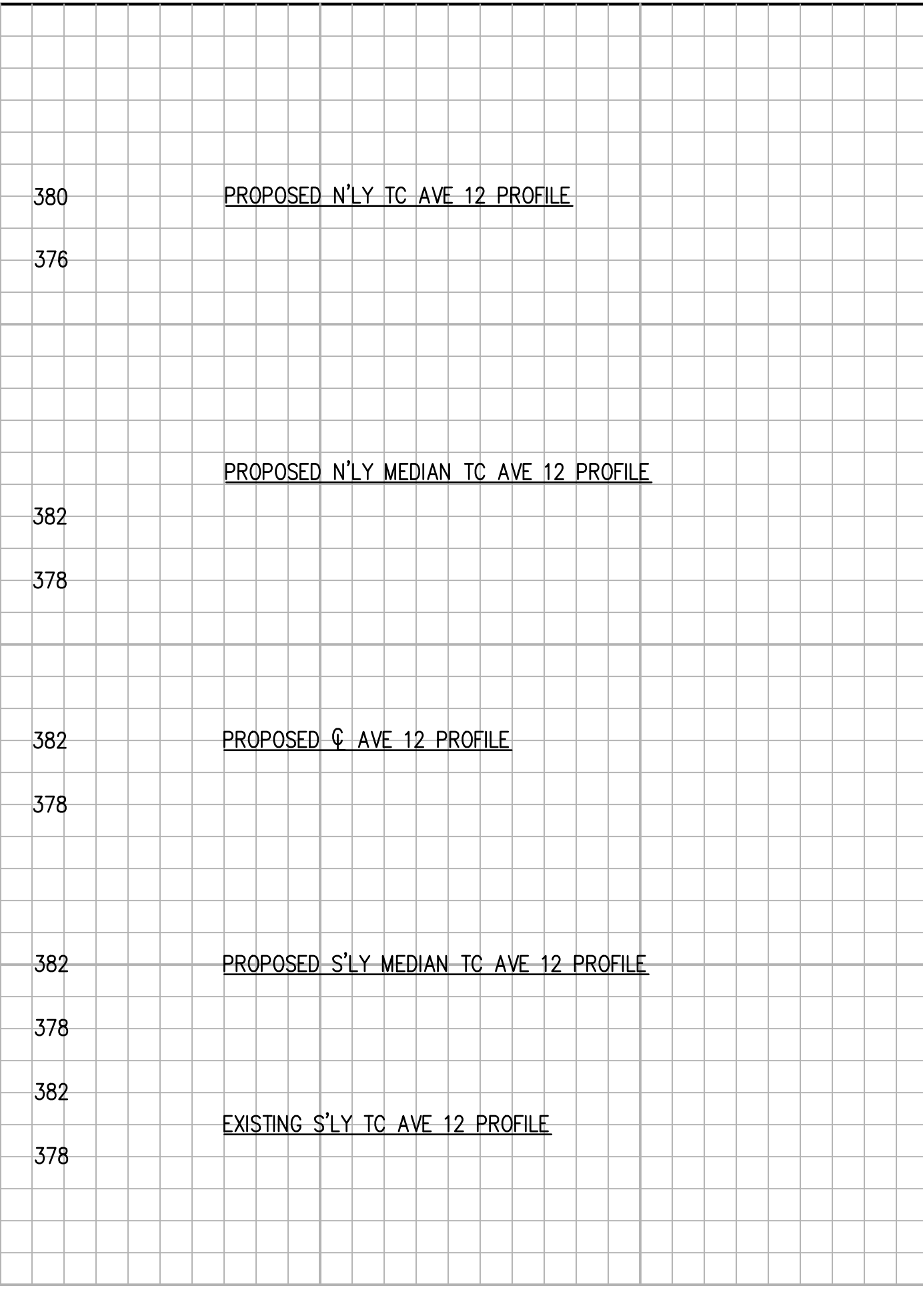
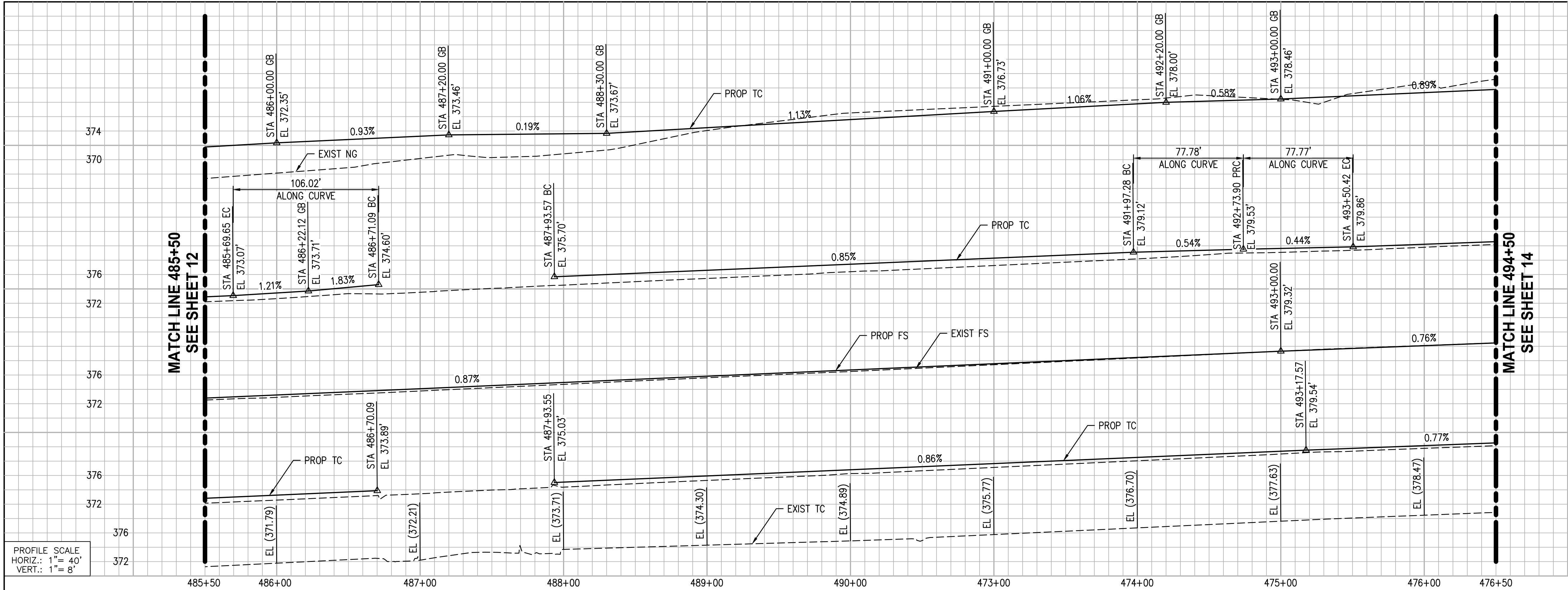
40 20 0 40 80
SCALE FEET

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



Plotted By: Camryn Lopez

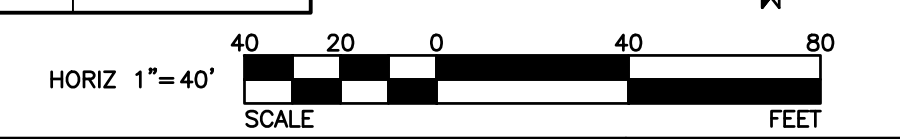
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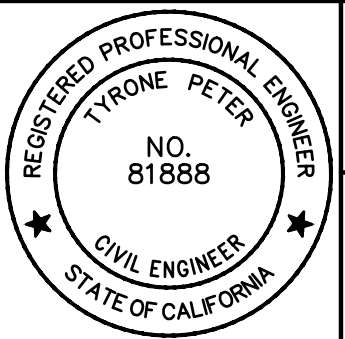
- ### CONSTRUCTION NOTES
1. CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
 3. CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A, CASE PER PLAN
 4. CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
 9. CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
 6. CONSTRUCT 4-INCH PCC SIDEWALK PER DETAIL ON SHEET 3
 8. CONSTRUCT PERMANENT SURVEY MONUMENT PER COUNTY OF MADERA DWG NO E-1
 10. COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
 11. CONSTRUCT CURB CUT PER DETAIL ON SHEET 19
 - A. ADJUST TO GRADE
 - P. PROTECT IN PLACE (ITEM NOTED)
 - R. REMOVE (ITEM NOTED)
 - RL. RELOCATE
 - RO. RELOCATE BY OTHERS (ITEM NOTED)

- ### LEGEND:
- CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
 - COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
 - PCC IMPROVEMENTS

CURVE TABLE				
CURVE	LENGTH (FT)	RADIUS (FT)	DELTA	TANGENT (FT)
17	106.02	200.00	30°22'18"	54.29
18	5.25	2.00	150°17'44"	7.54
19	9.35	3.00	178°37'40"	250.52
20	77.58	250.00	17°46'44"	39.10
21	77.77	250.00	17°49'27"	39.20



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



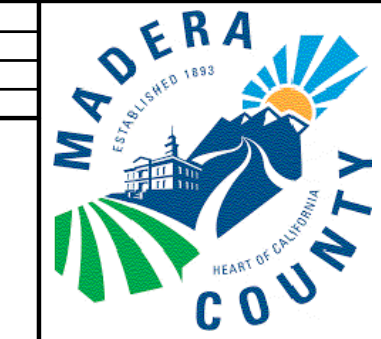
WILLDAN *extending your reach*

2401 East Kalinda Ave, Suite 300, Anaheim, California 92806
714/979-8200 fax 714/979-8299

PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RUSCL	12/16/24
DESIGNED BY: RUSJK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

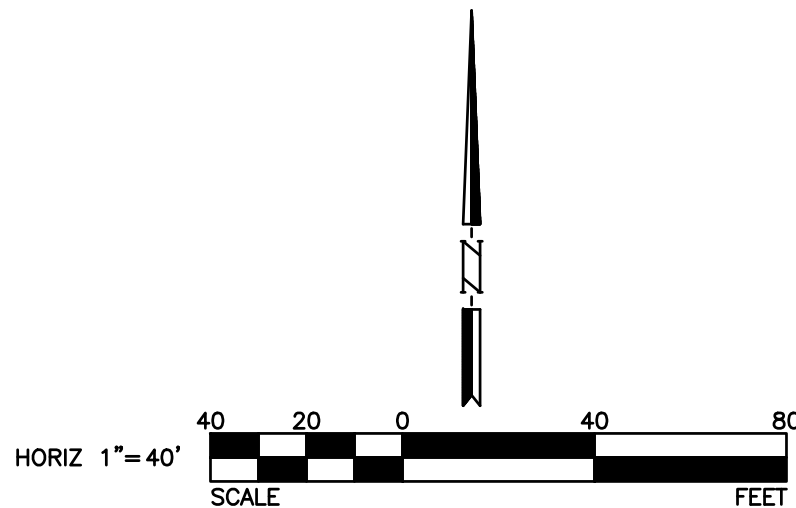
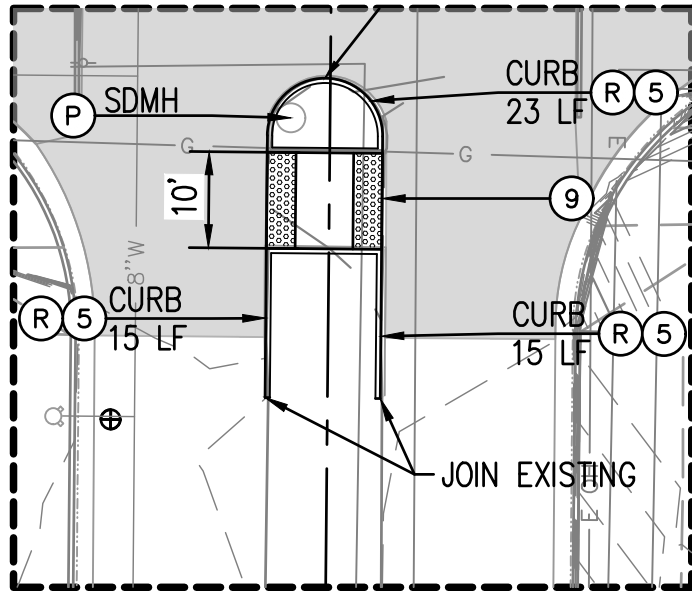
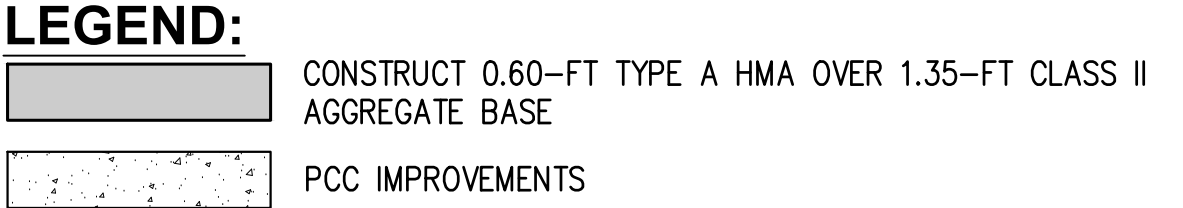
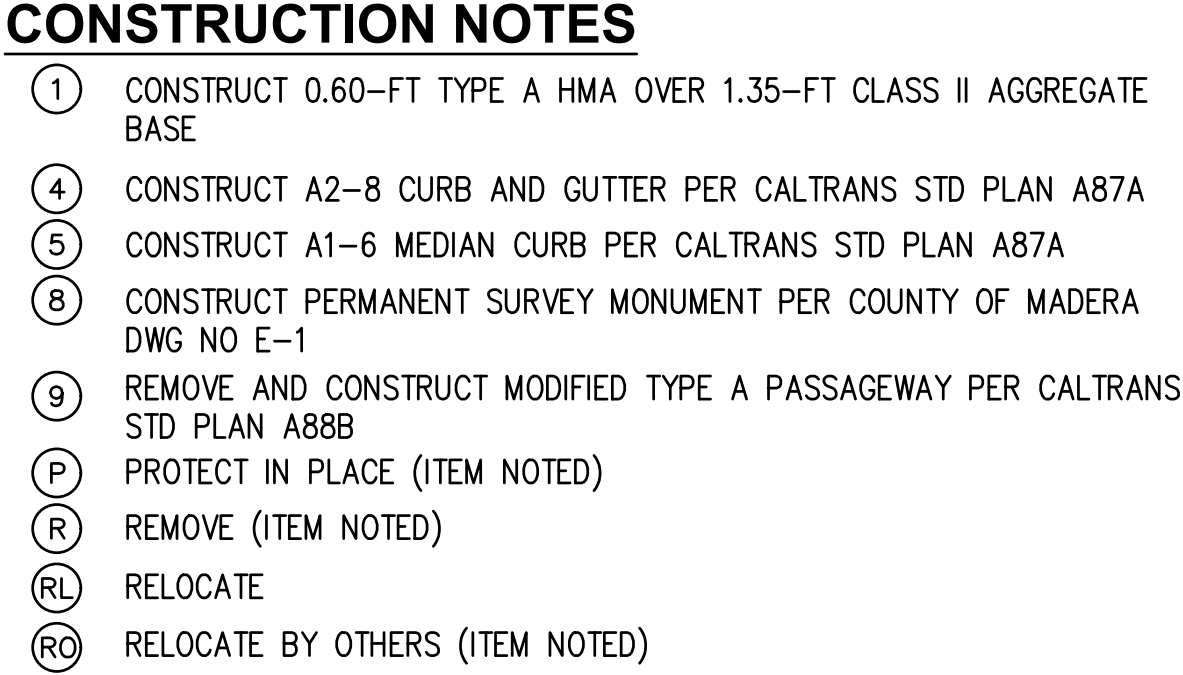
AVENUE 12 WIDENING PROJECT

STREET IMPROVEMENT PLAN AND PROFILE

STATION 485+50 TO 494+50

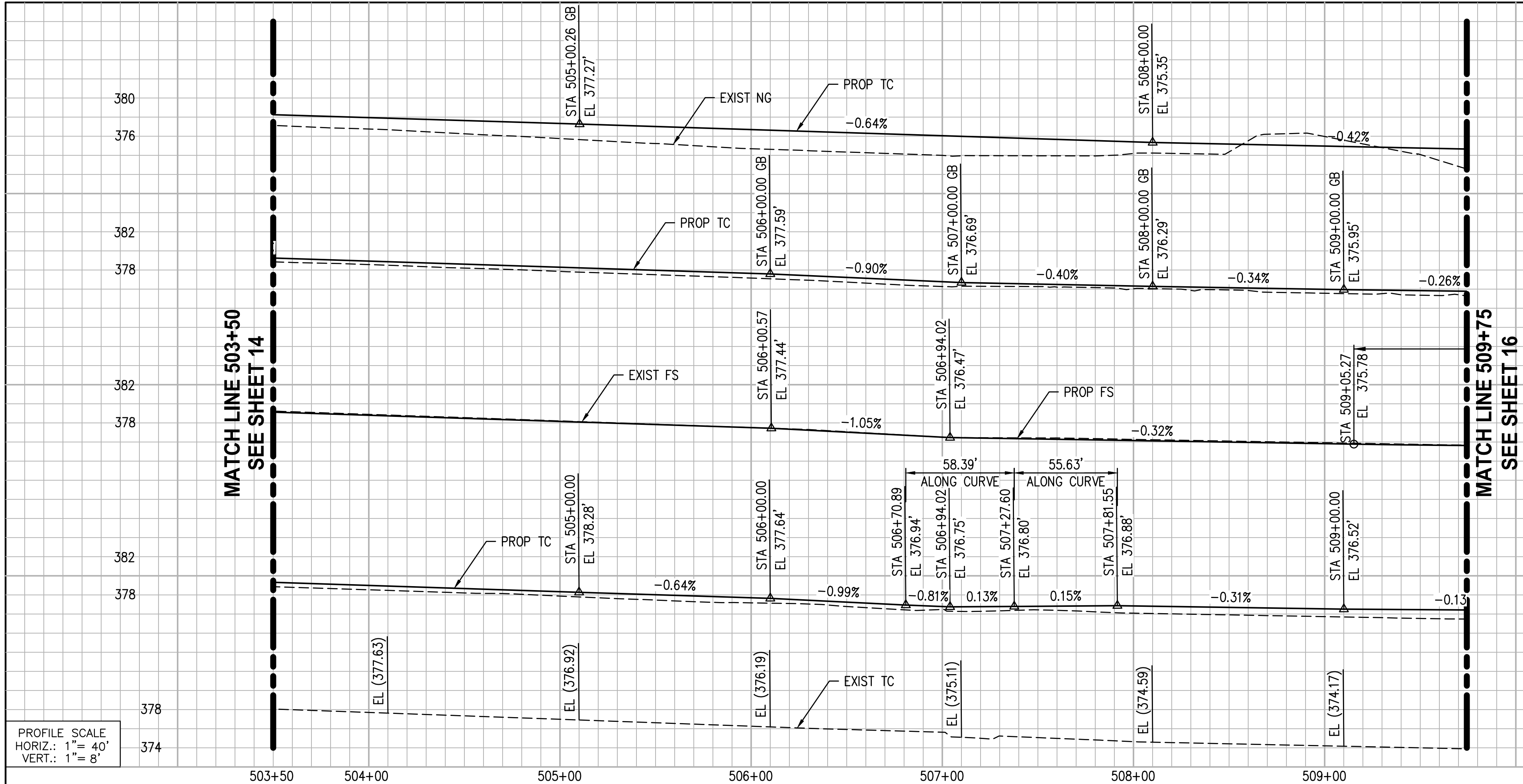
SHEET 13 OF 49

DWG. NO. C-7



Plotted By: Camryn Lopez

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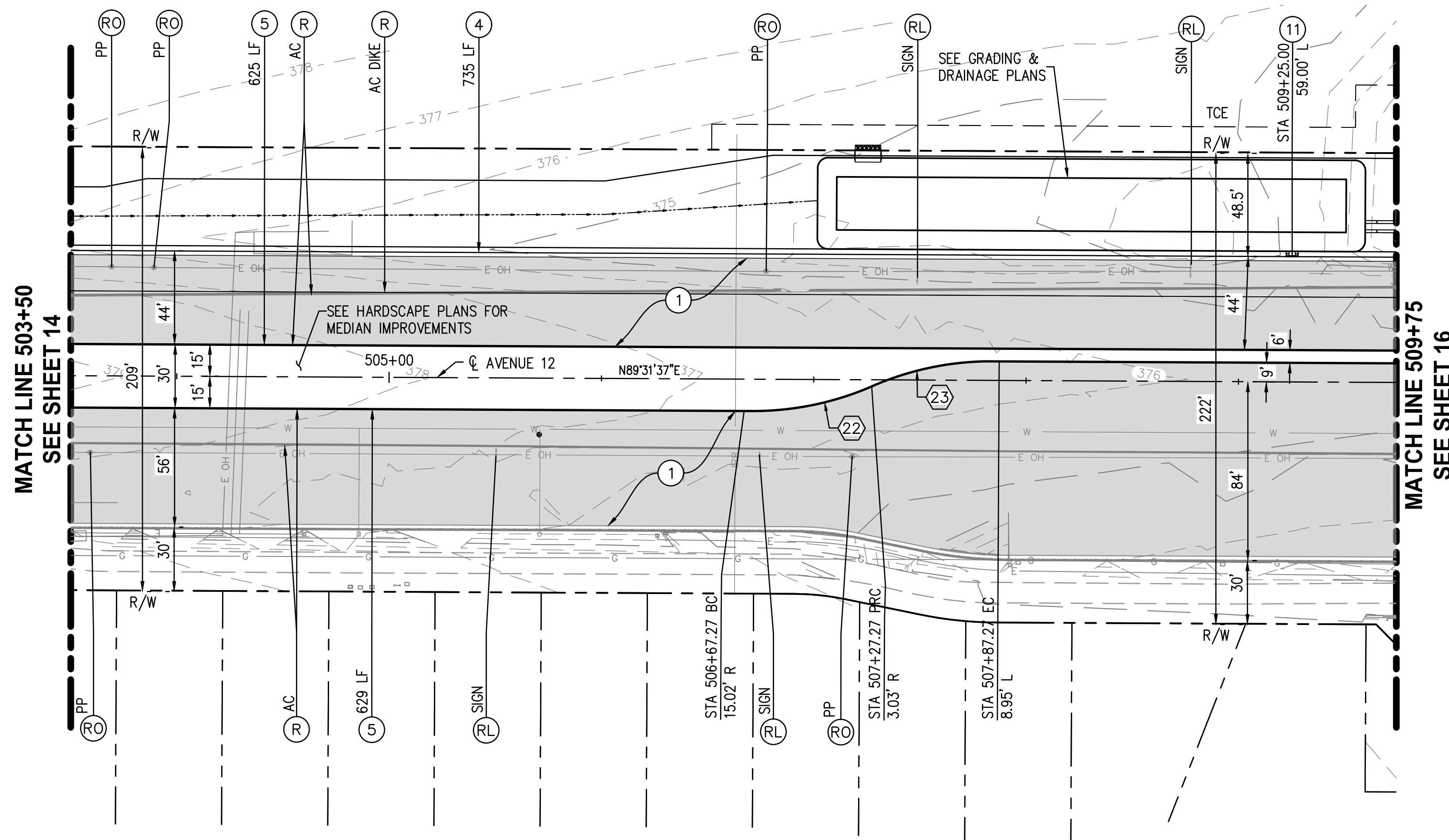
CONSTRUCTION NOTES

- 1 CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE
- 4 CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
- 5 CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
- 11 CONSTRUCT CURB CUT PER DETAIL ON SHEET 19
- P PROTECT IN PLACE (ITEM NOTED)
- R REMOVE (ITEM NOTED)
- RL RELOCATE
- RO RELOCATE BY OTHERS (ITEM NOTED)

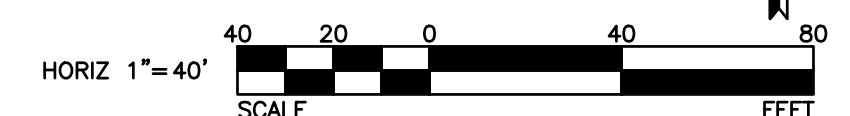
LEGEND:

CONSTRUCT 0.60-FT TYPE A HMA OVER 1.35-FT CLASS II AGGREGATE BASE

CURVE TABLE				
CURVE	LENGTH (FT)	RADIUS (FT)	DELTA	TANGENT (FT)
22	58.39	140.00	23°53'44"	29.62
23	55.63	140.00	22°45'54"	28.18



AVENUE 12

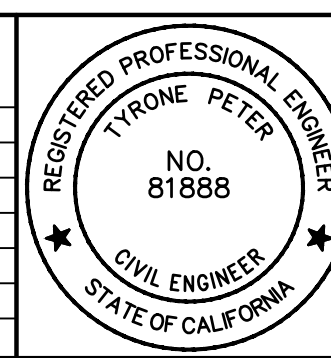


USANORTH11.ORG



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

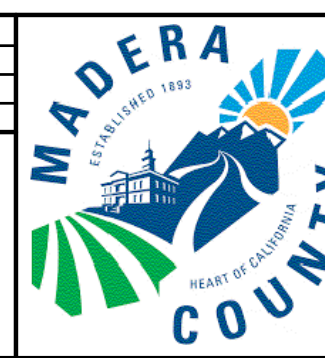


PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN
DRAWN BY: RSL/CL
DESIGNED BY: RSL/KK
CHECKED BY: TP

DATE
12/16/24
12/16/24
12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

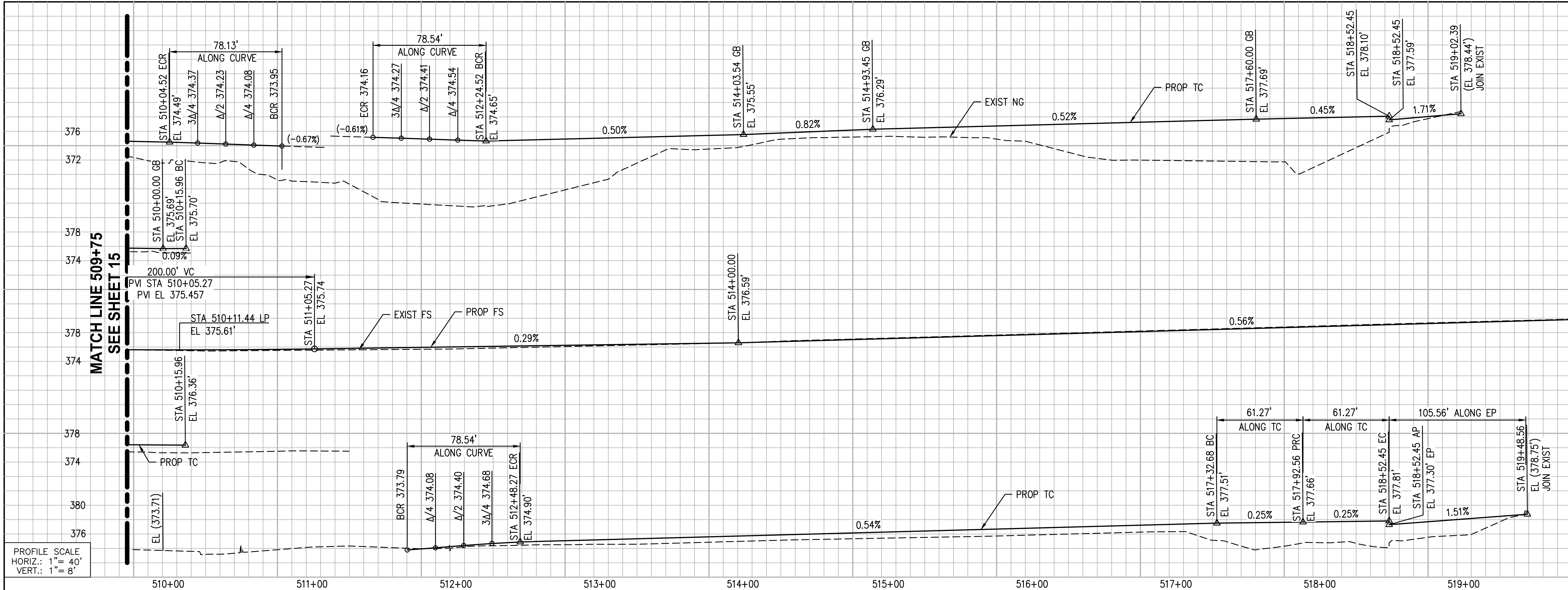
APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA		SHEET
AVENUE 12 WIDENING PROJECT		15 OF 49
STREET IMPROVEMENT PLAN AND PROFILE		DWG. NO.
STATION 503+50 TO 509+75		C-9

Plotted By: Camryn Lopez

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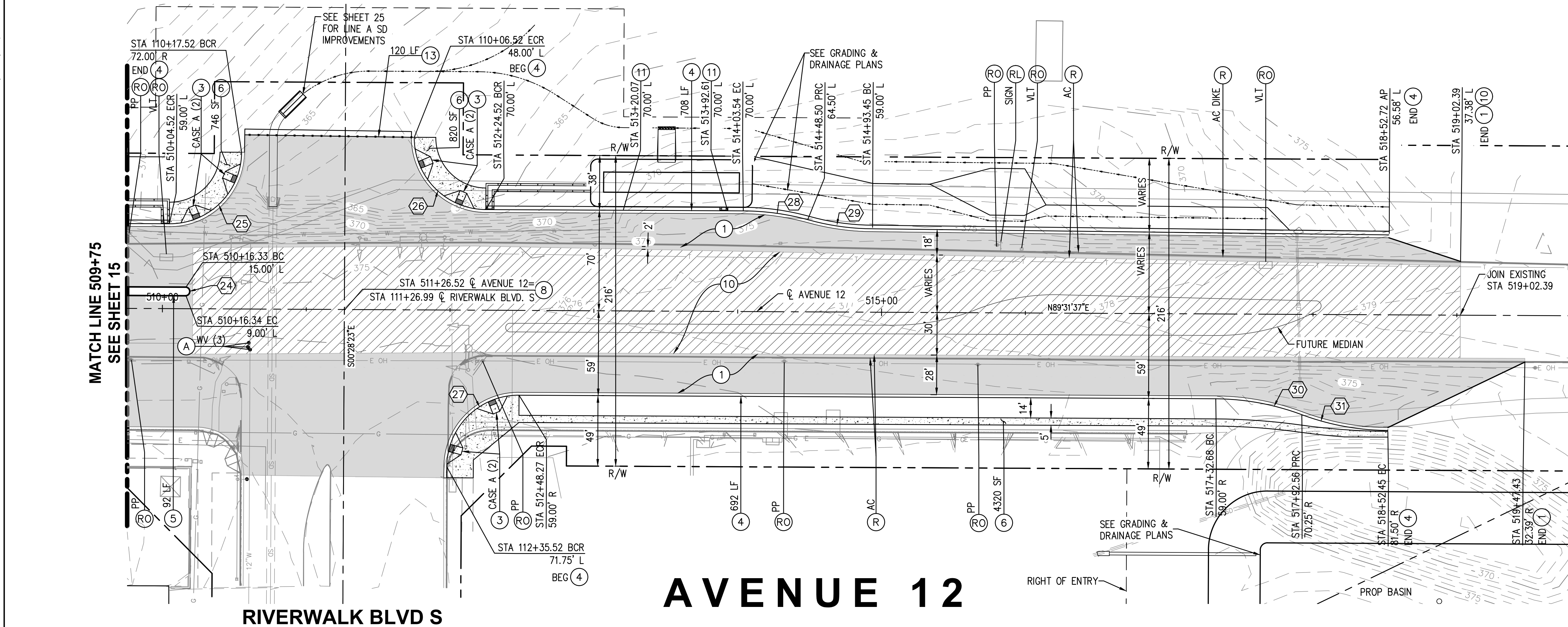
PROPOSED N'L Y TC AVE 12 PROFILE

PROPOSED S'L Y MEDIAN TC AVE 12 PROFILE

PROPOSED C AVE 12 PROFILE

PROPOSED S'L Y MEDIAN TC AVE 12 PROFILE

PROPOSED S'L Y TC AVE 12 PROFILE



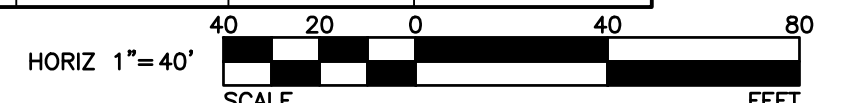
CONSTRUCTION NOTES

1. CONSTRUCT 0.60'-FT TYPE A HMA OVER 1.35'-FT CLASS II AGGREGATE BASE
3. CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A, CASE PER PLAN
4. CONSTRUCT A2-8 CURB AND GUTTER PER CALTRANS STD PLAN A87A
5. CONSTRUCT A1-6 MEDIAN CURB PER CALTRANS STD PLAN A87A
6. CONSTRUCT 4-INCH PCC SIDEWALK PER DETAIL ON SHEET 3
8. CONSTRUCT PERMANENT SURVEY MONUMENT PER COUNTY OF MADERA DWG NO E-1
10. COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
11. CONSTRUCT CURB CUT PER DETAIL ON SHEET 19
13. CONSTRUCT GUARDRAIL PER CALTRANS STD PLAN A77L1
- A. ADJUST TO GRADE
- P. PROTECT IN PLACE (ITEM NOTED)
- R. REMOVE (ITEM NOTED)
- RL. RELOCATE
- RO. RELOCATE BY OTHERS (ITEM NOTED)

LEGEND:

- CONSTRUCT 0.60'-FT TYPE A HMA OVER 1.35'-FT CLASS II AGGREGATE BASE
- COLD MILL 3-INCH UNIFORM DEPTH AND CONSTRUCT 3-INCH TYPE A HMA OVERLAY
- PCC IMPROVEMENTS

CURVE TABLE				
CURVE	LENGTH (FT)	RADIUS (FT)	DELTA	TANGENT (FT)
24	9.36	3.00	178°46'57"	282.38
25	78.13	50.00	89°31'37"	49.59
26	78.54	50.00	90°00'20"	50.00
27	78.54	50.00	90°00'00"	50.00
28	45.41	186.50	13°56'57"	22.82
29	43.83	187.00	13°25'48"	22.02
30	61.27	174.03	20°10'15"	30.95
31	61.26	176.90	19°50'27"	30.94

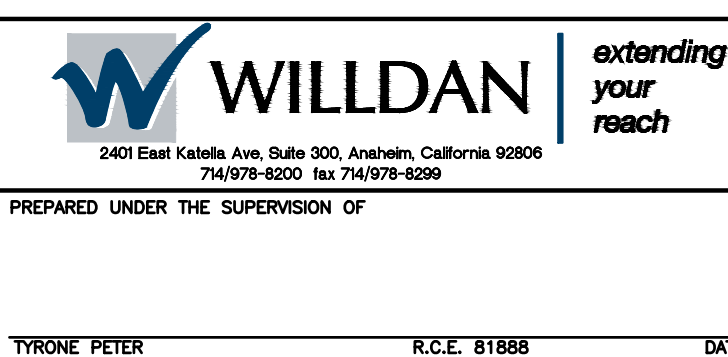
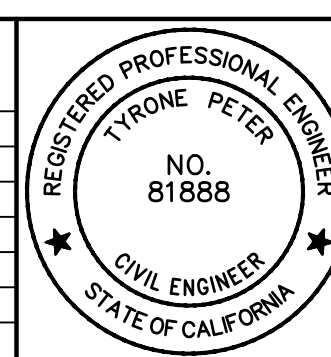


AVENUE 12

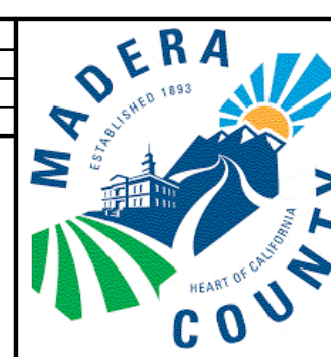
RIVERWALK BLVD S

REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RSL/CL	DESIGNED BY: RSL/JK
CHECKED BY: TP	DATE: 12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607
APPROVED: JARED CARTER, DEPUTY DIRECTOR OF PUBLIC WORKS

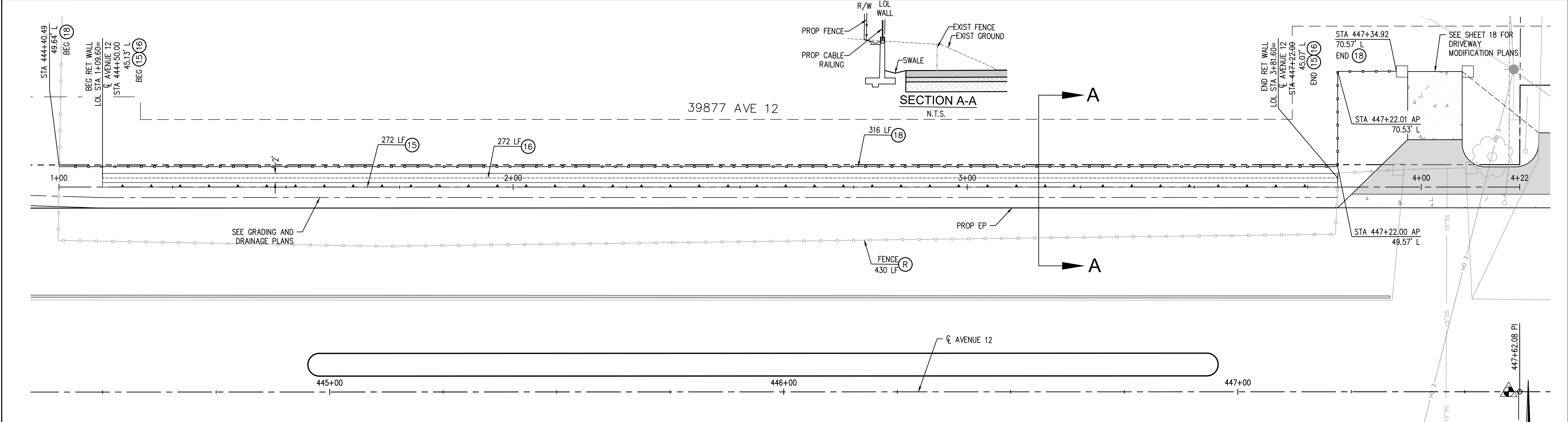
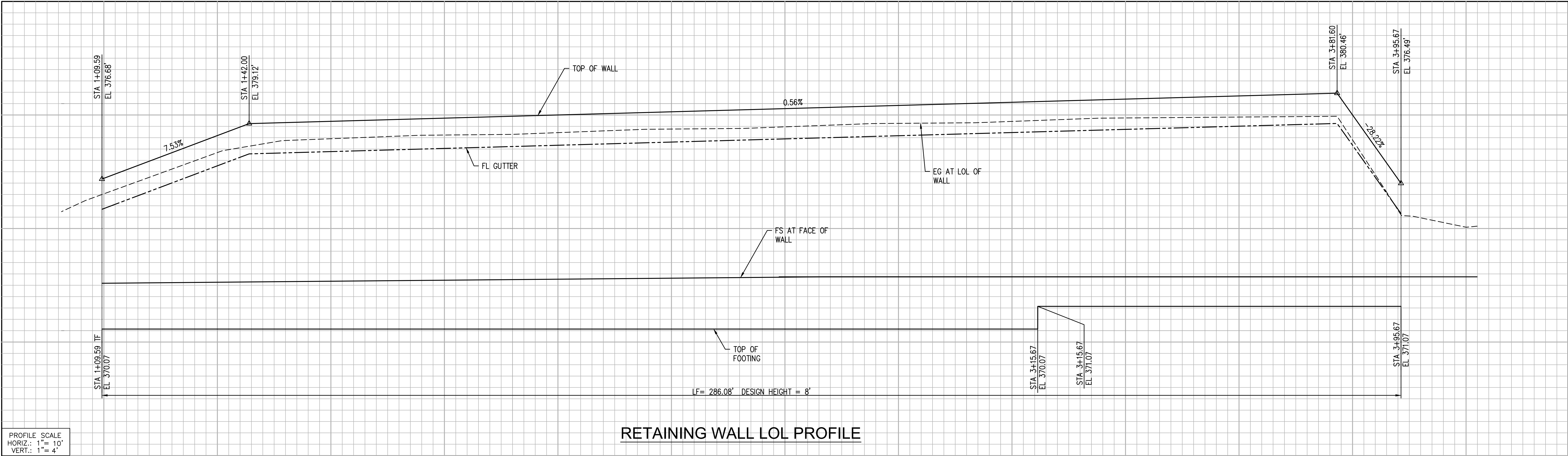
COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
STREET IMPROVEMENT PLAN AND PROFILE
STATION 509+75 TO WEST OF HWY 41

SHEET
16 OF 49
DWG. NO.
C-10

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-ES&E\001-Plans\PL-RETWALL-01.dwg Dec 16, 2024 - 5:52pm



CONSTRUCTION NOTES

- (15) CONSTRUCT RETAINING WALL TYPE 1 PER CALTRANS STD PLAN B3-1A. INSTALL CABLE RAILING PER CALTRANS STD PLAN B11-47
- (16) CONSTRUCT GUTTER PER CALTRANS STD PLAN B3-6
- (18) FURNISH AND INSTALL CHAIN LINK FENCE PER CALTRANS STD PLAN A85
- (R) REMOVE (ITEM NOTED)

LEGEND:

- ▲ RETAINING WALL
- CHAIN LINK FENCE

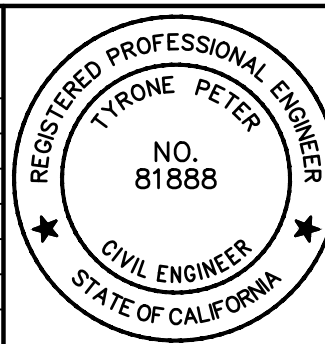
RETAINING WALL PLAN

USANORTH11.ORG



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RJS/CL	DATE: 12/16/24
DESIGNED BY: RJS/RK	DATE: 12/16/24
CHECKED BY: TP	DATE: 12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

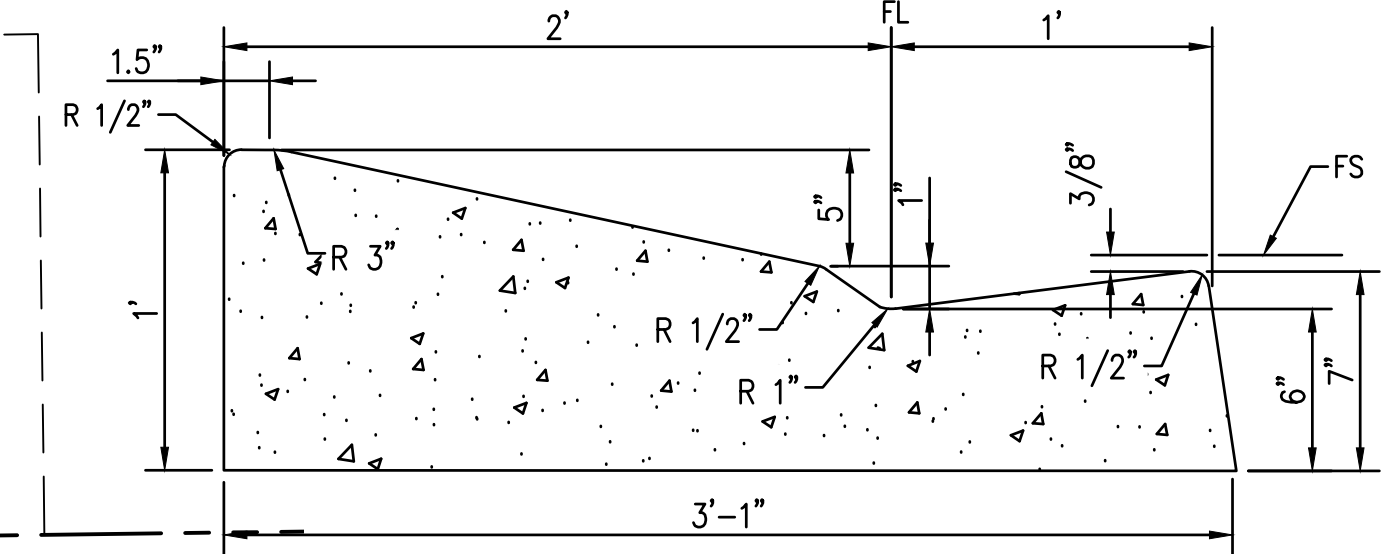
APPROVED

JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS

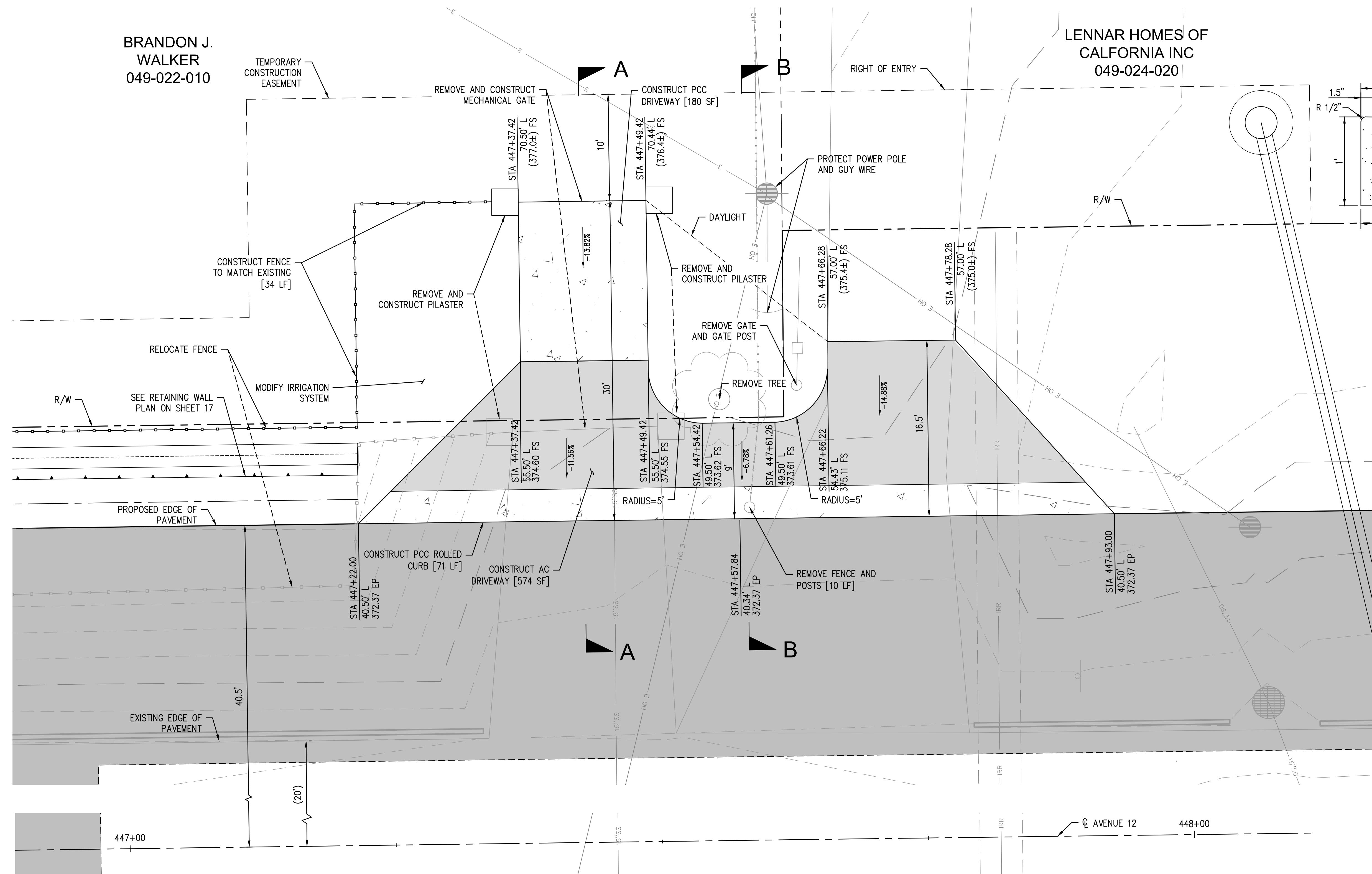
COUNTY OF MADERA AVENUE 12 WIDENING PROJECT RETAINING WALL PLAN	SHEET 17 OF 49 DWG. NO. RW-1
---	---------------------------------------

TEMPORARY
CONSTRUCTION
EASEMENT

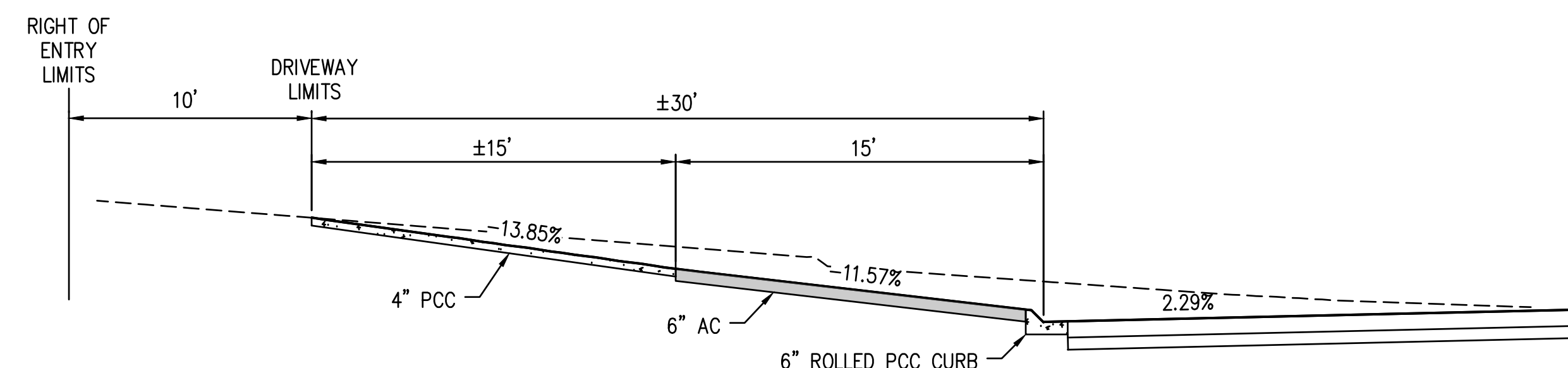
RIGHT OF ENTRY



CONSTRUCT FENCE
TO MATCH EXISTING
[34 LF]



N.T.S

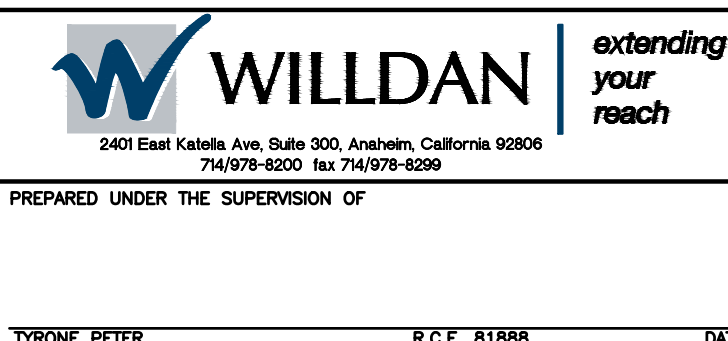
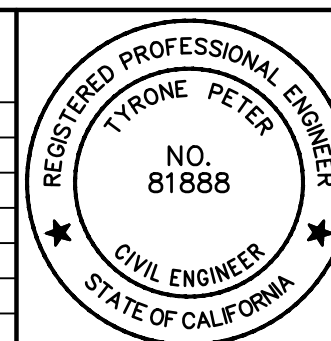


HORIZ 1" = 5'

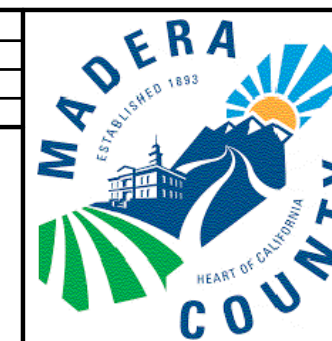
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SCALE FEET

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



SCALE:	AS SHOWN	DATE
DRAWN BY	RGS,CL	12/16/20
DESIGNED BY	RGS,KK	12/16/20
CHECKED BY	TP	12/16/20



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

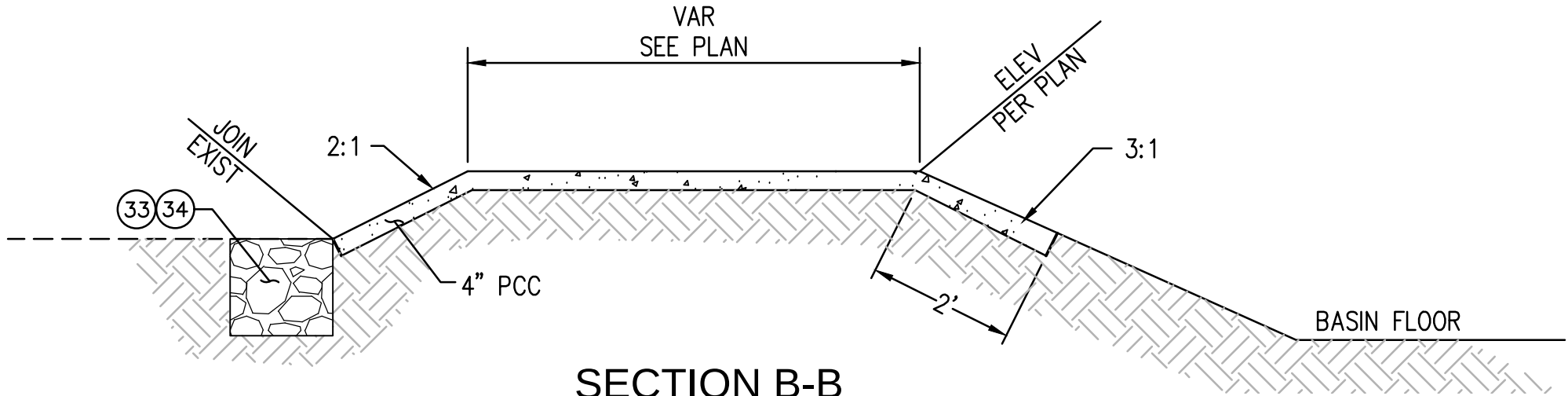
JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
DRIVEWAY MODIFICATION PLAN
AT 39877 AVENUE 12

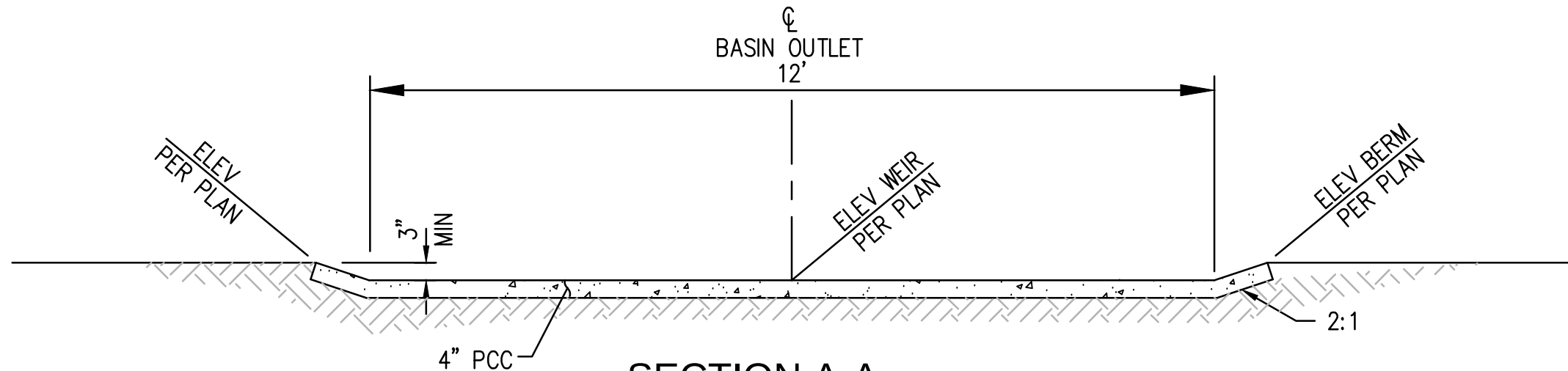
SHEET
OF 49
NO.
DM-1

Plotted By: emccracken

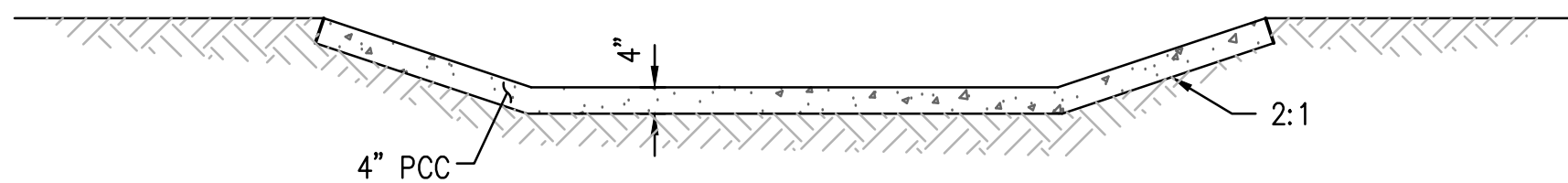
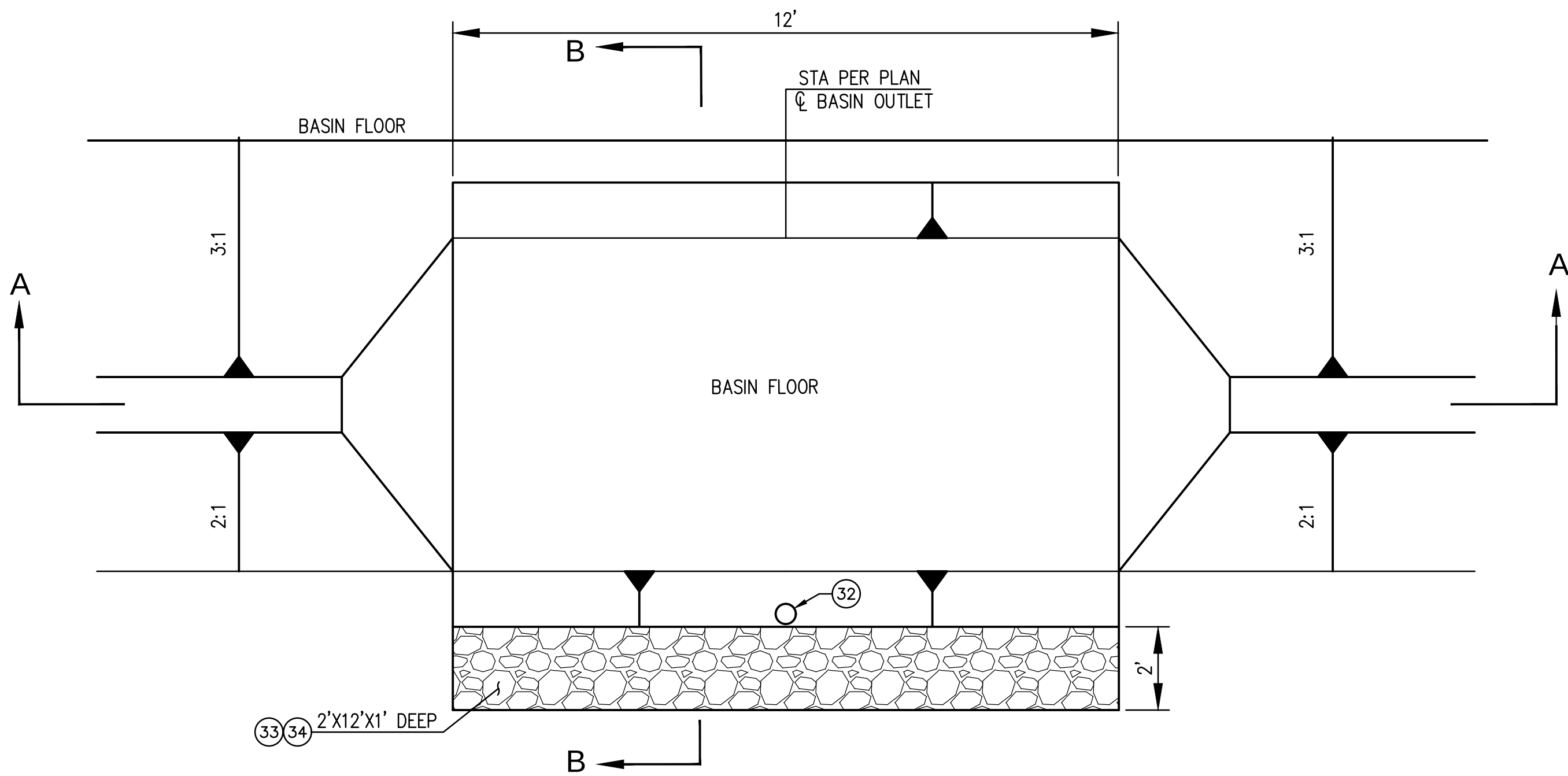
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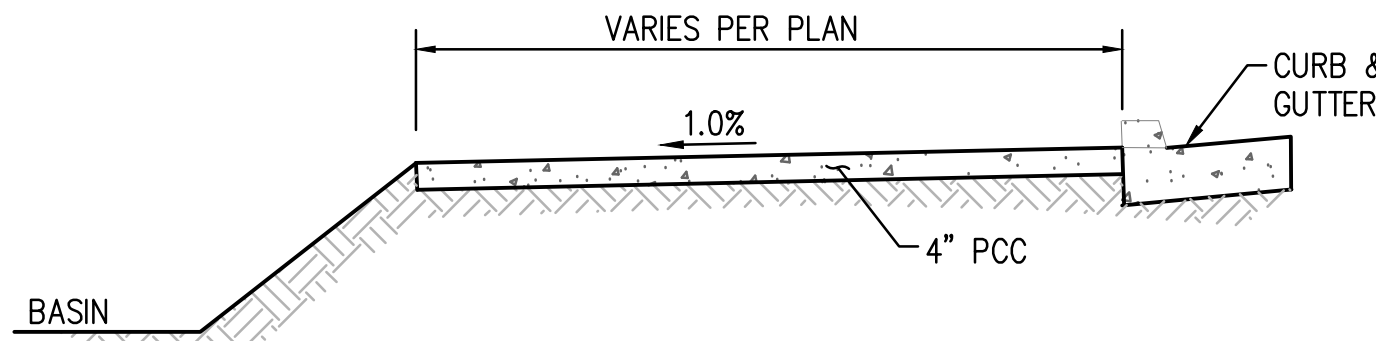
SECTION B-B
N.T.S.



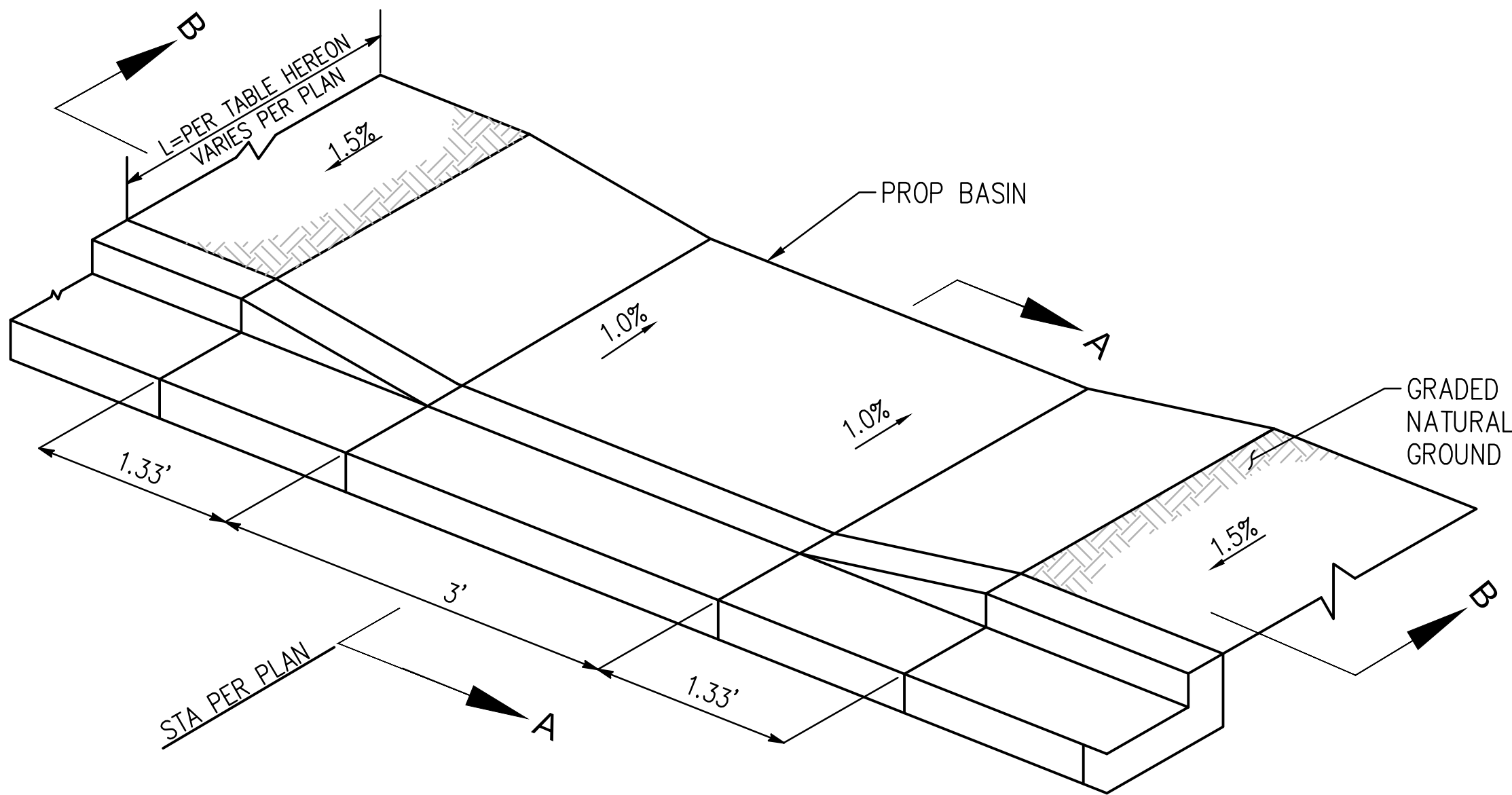
SECTION A-A
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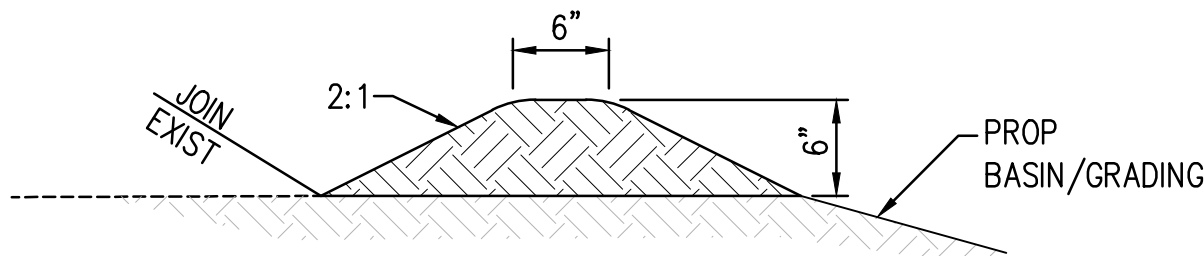
SECTION B-B
N.T.S.



SECTION A-A
N.T.S.



SWALE DETAILS
N.T.S.



6" EARTHEN BERM
N.T.S.

CONSTRUCTION NOTES

- 28 CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- 29 CONSTRUCT SWALE PER DETAILS ON SHEET 19
- 30 CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
- 31 CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
- 32 CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
- 33 INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
- 34 INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B

SWALE

BASIN NO.	STATION	L=LENGTH
1	434+40, 435+85	3'
2	436+65, 440+90	4'
3	466+50	2'
4	471+25	2'
5	477+00, 479+25	2'
6	488+85	2'
7	492+30	2'
8	509+25, 510+01.69	2', 56'
9	512+27.36	2', 85'

OVERFLOW WEIR

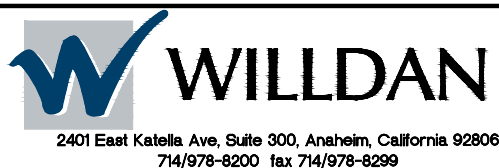
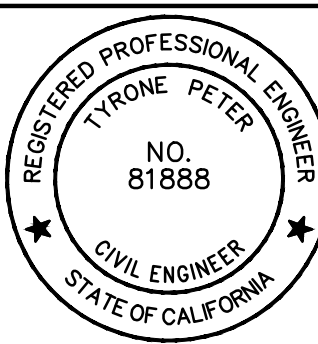
BASIN NO.	ELEVATION - WEIR	ELEVATION - BERM
1	370.06	370.31
2	370.54	370.79
5	367.09	368.38
6	373.47	374.56
7	374.80	375.96
8	373.75	375.39
9	374.15	375.60

OVERFLOW WEIR
N.T.S.



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN
DRAWN BY: RJS/CL
DESIGNED BY: RJS/RJK
CHECKED BY: TP

DATE
12/16/24
12/16/24
12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

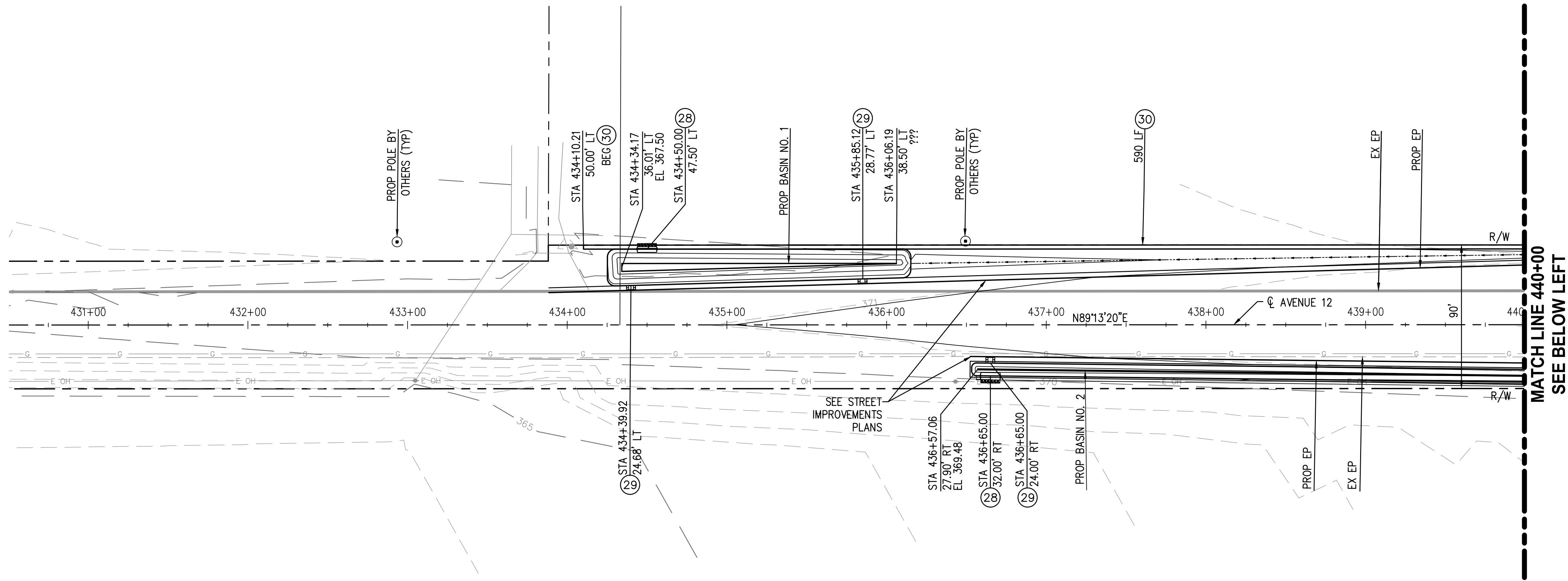
APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

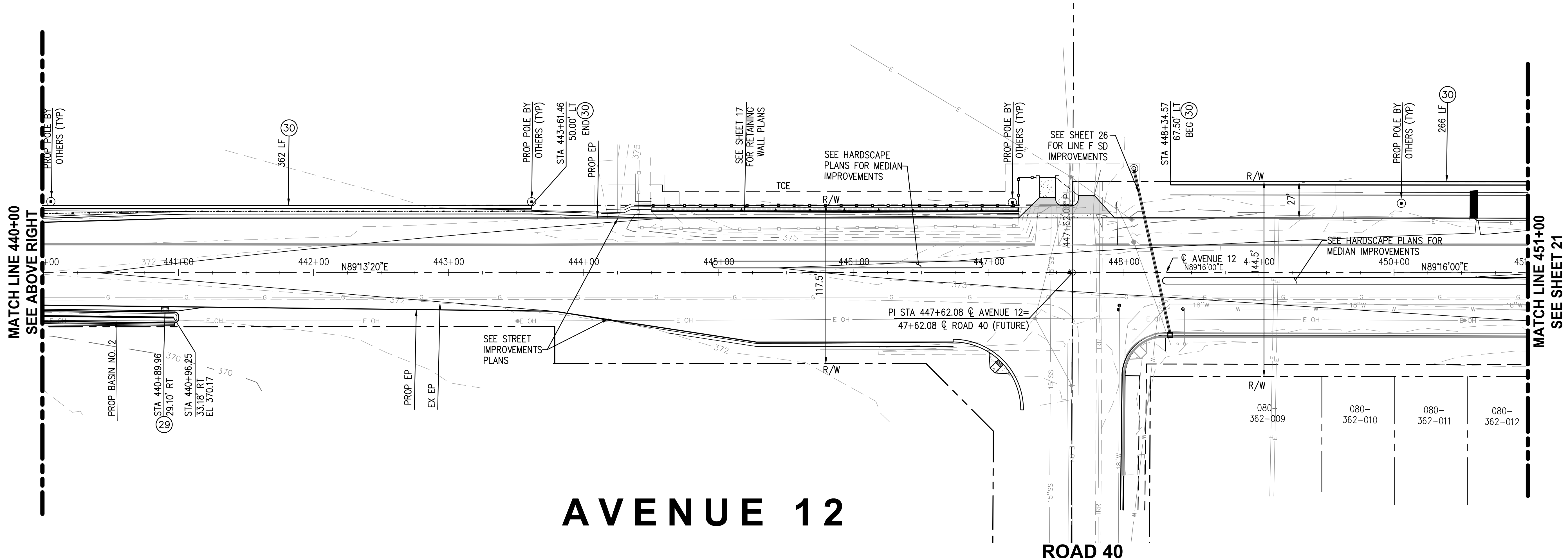
COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT GRADING & DRAINAGE DETAILS	19 OF 49
DWG. NO. G-1	

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

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AVENUE 12



AVENUE 12

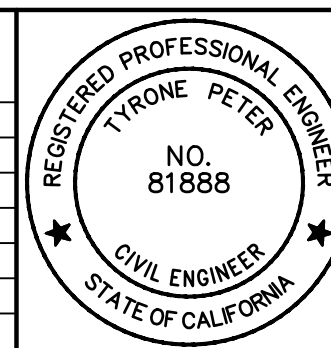
ROAD 40

CONSTRUCTION NOTES

- (28) CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- (29) CONSTRUCT SWALE PER DETAILS ON SHEET 19
- (30) CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
- (31) CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
- (32) CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
- (33) INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
- (34) INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B

REVISIONS

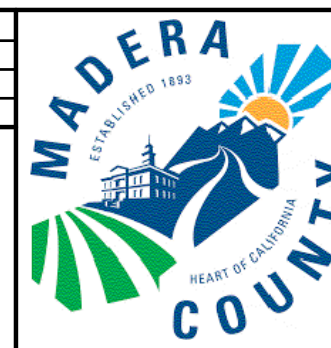
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RSL/CL	12/16/24
DESIGNED BY: RSL/RK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED
JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS
DATE

COUNTY OF MADERA

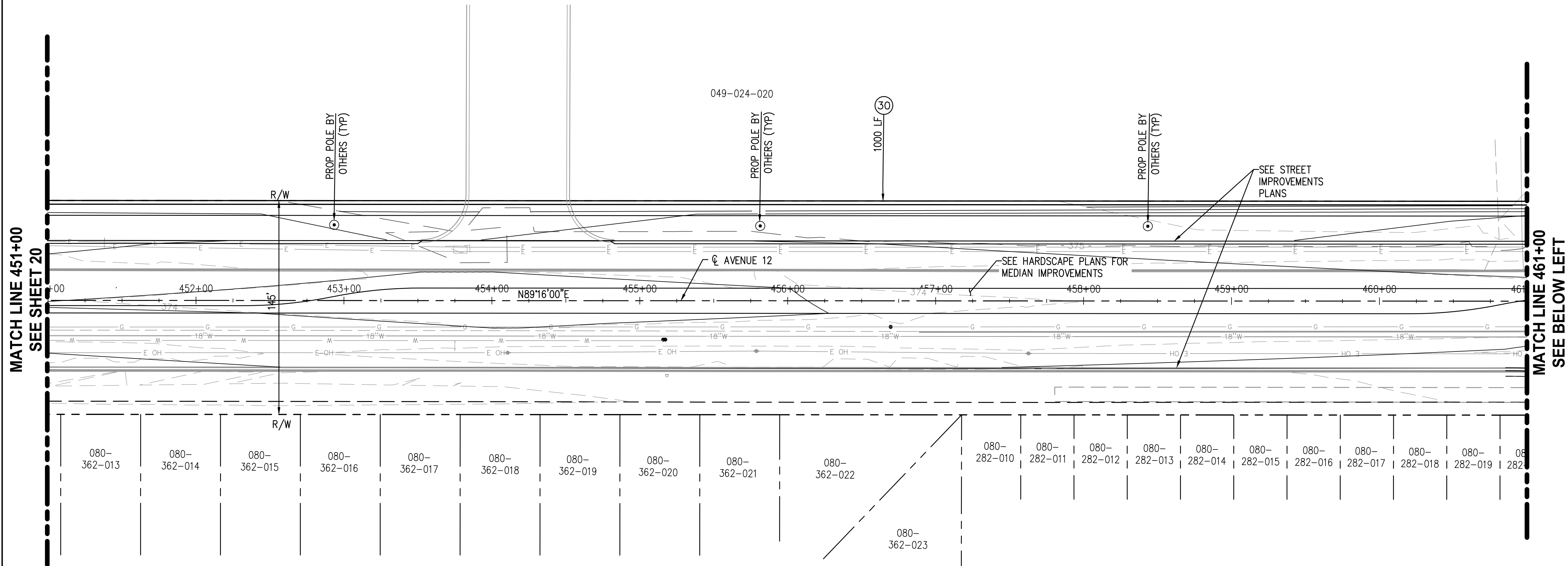
AVENUE 12 WIDENING PROJECT
GRADING AND DRAINAGE PLAN
STATION 434+10.21 TO STATION 451+00

SHEET

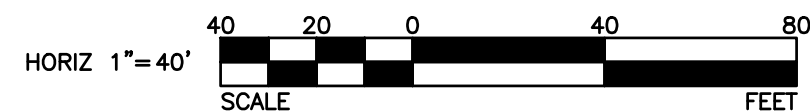
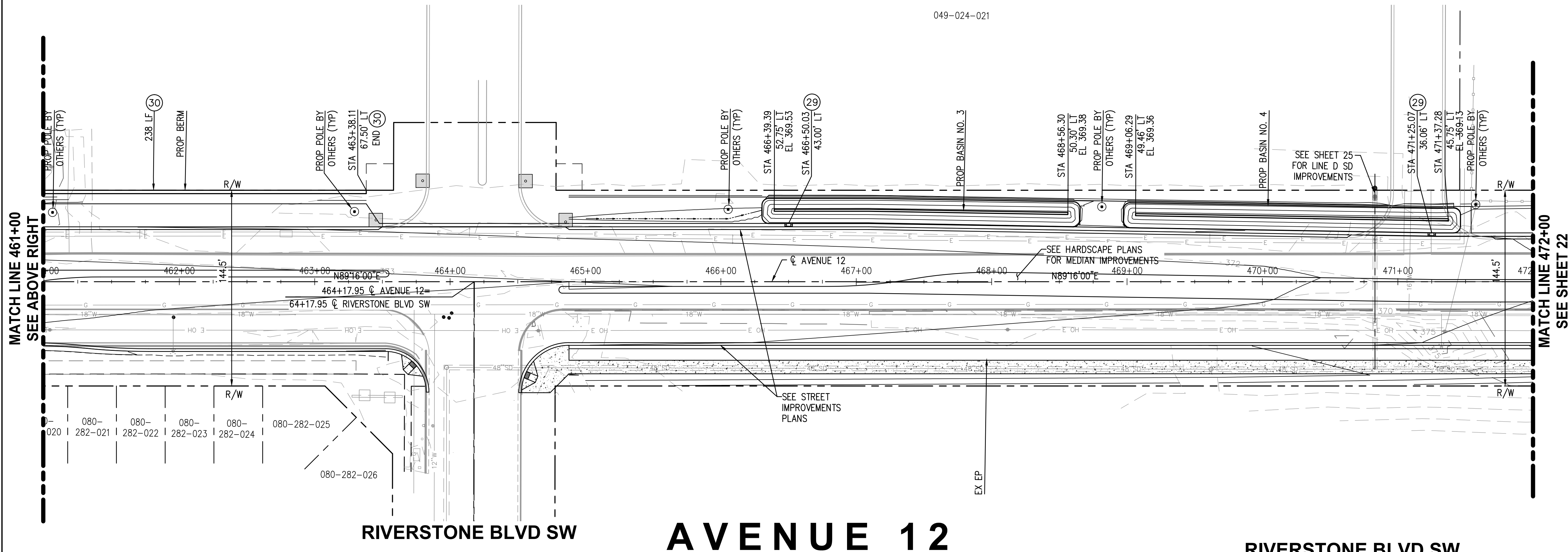
20 OF 49

DWG. NO.
G-2

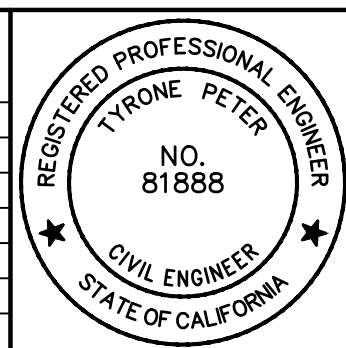
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Plotted By: Camryn Lopez



- CONSTRUCTION NOTES**
- 28 CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
 - 29 CONSTRUCT SWALE PER DETAILS ON SHEET 19
 - 30 CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
 - 31 CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
 - 32 CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
 - 33 INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
 - 34 INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B



REVISIONS				
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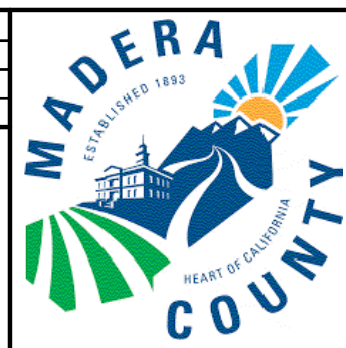
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PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

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DRAWN BY: RJS/CL	12/16/24
DESIGNED BY: RJS/RK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT

GRADING AND DRAINAGE PLAN

STATION 451+00 TO STATION 472+00

SHEET

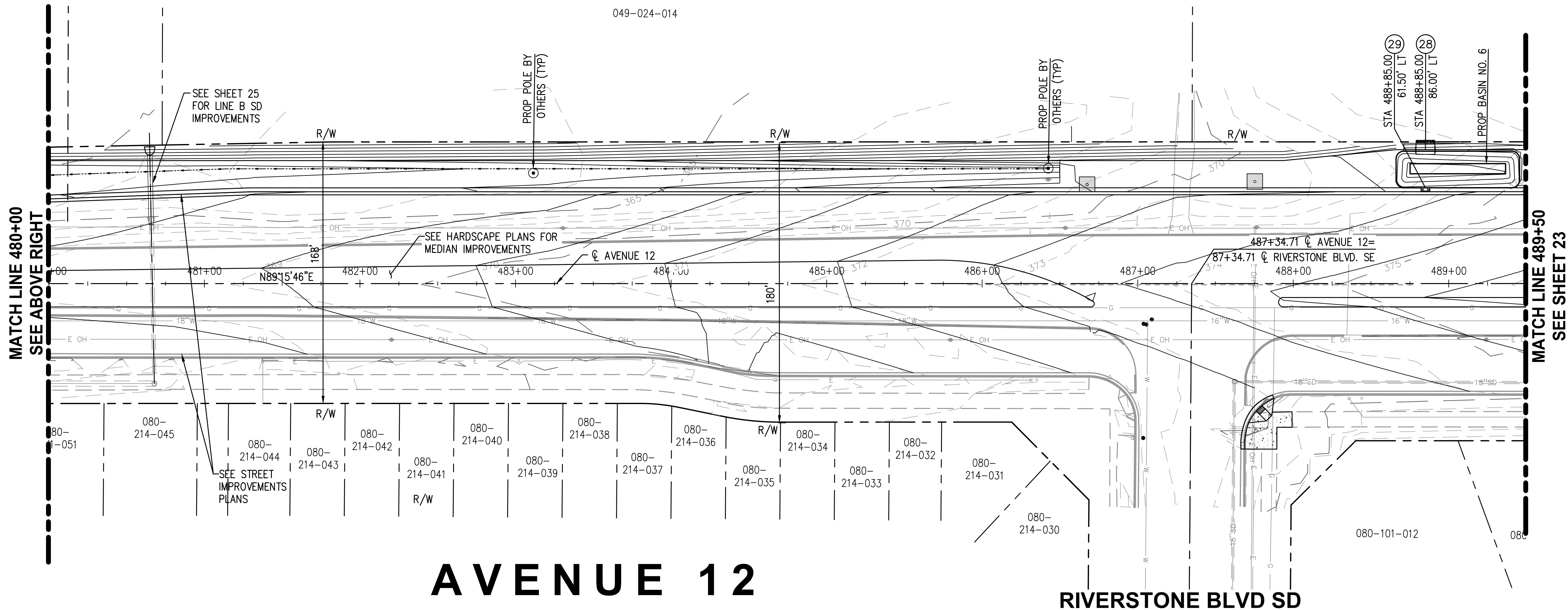
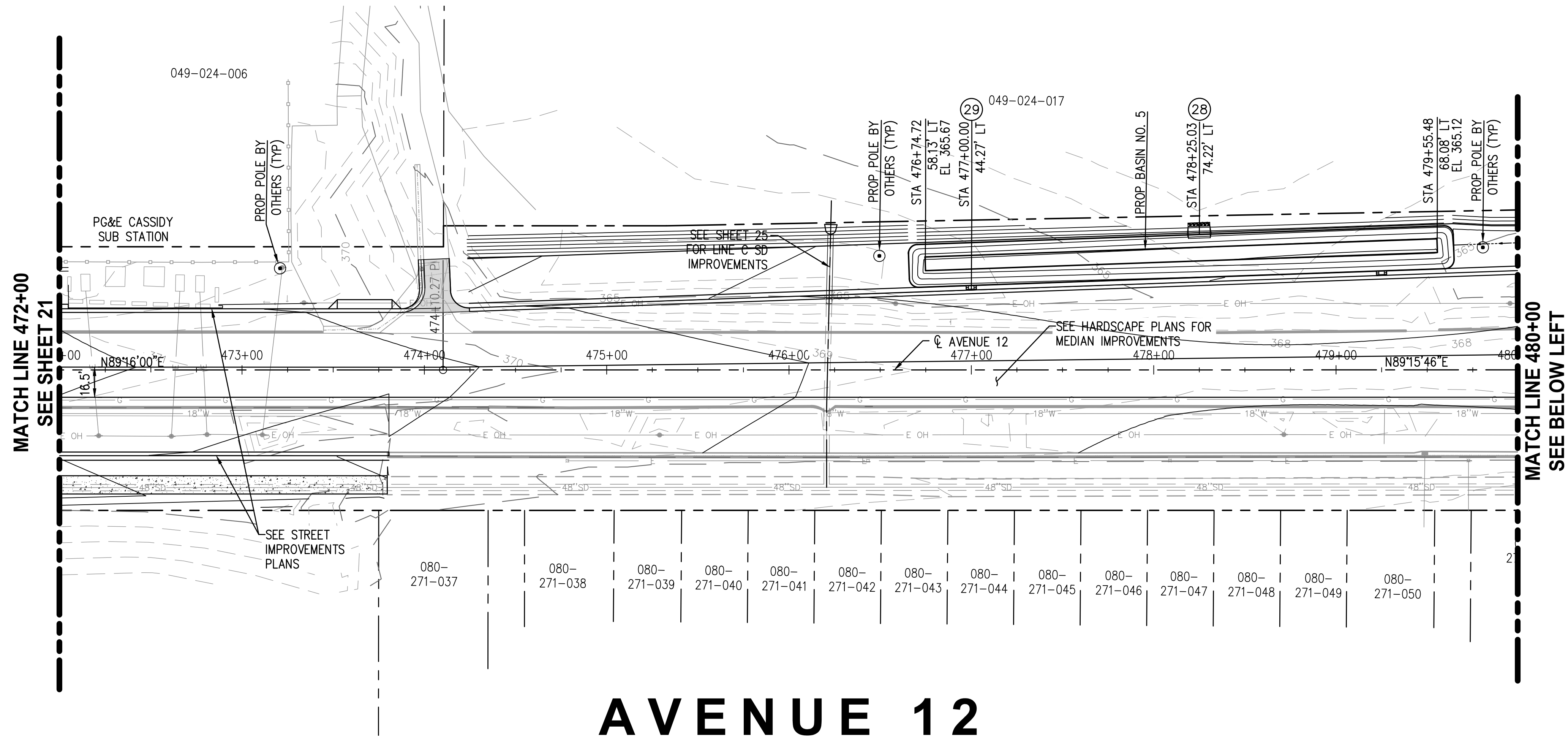
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DWG. NO.

G-3

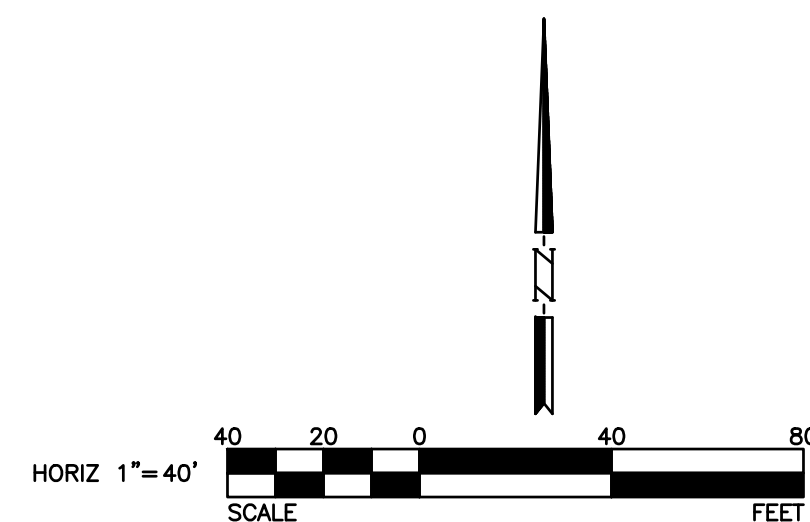
90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

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Plotted By: Camryn Lopez



CONSTRUCTION NOTES

- 28 CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- 29 CONSTRUCT SWALE PER DETAILS ON SHEET 19
- 30 CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
- 31 CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
- 32 CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
- 33 INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
- 34 INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B

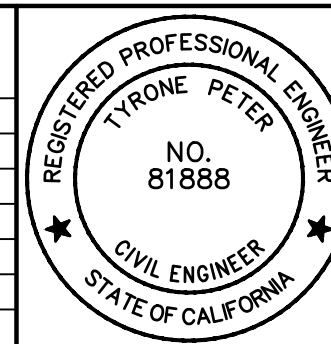


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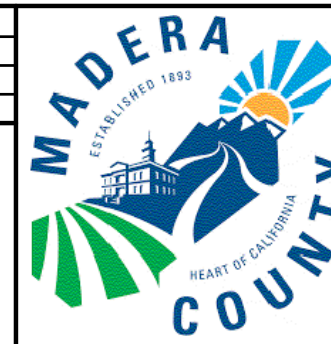
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RUS/CL	12/16/24
DESIGNED BY: RUS/JK	12/16/24
CHECKED BY: TP	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

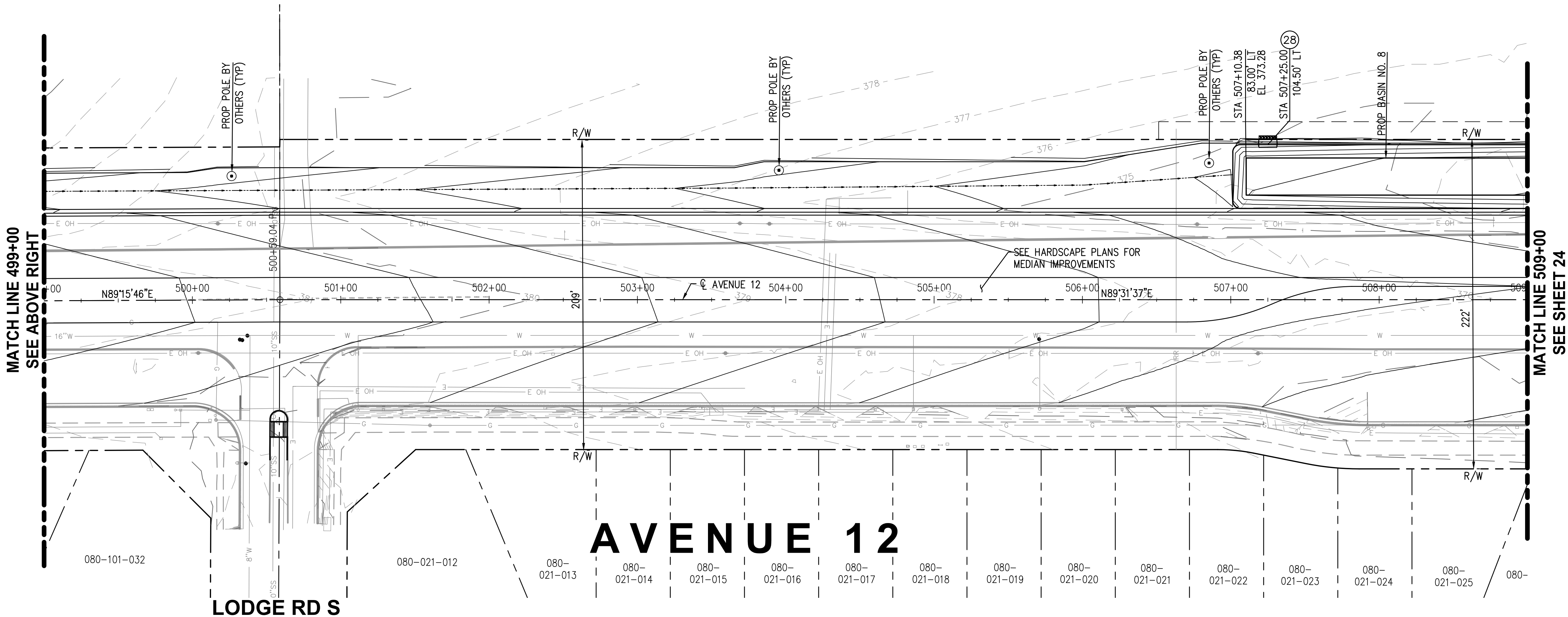
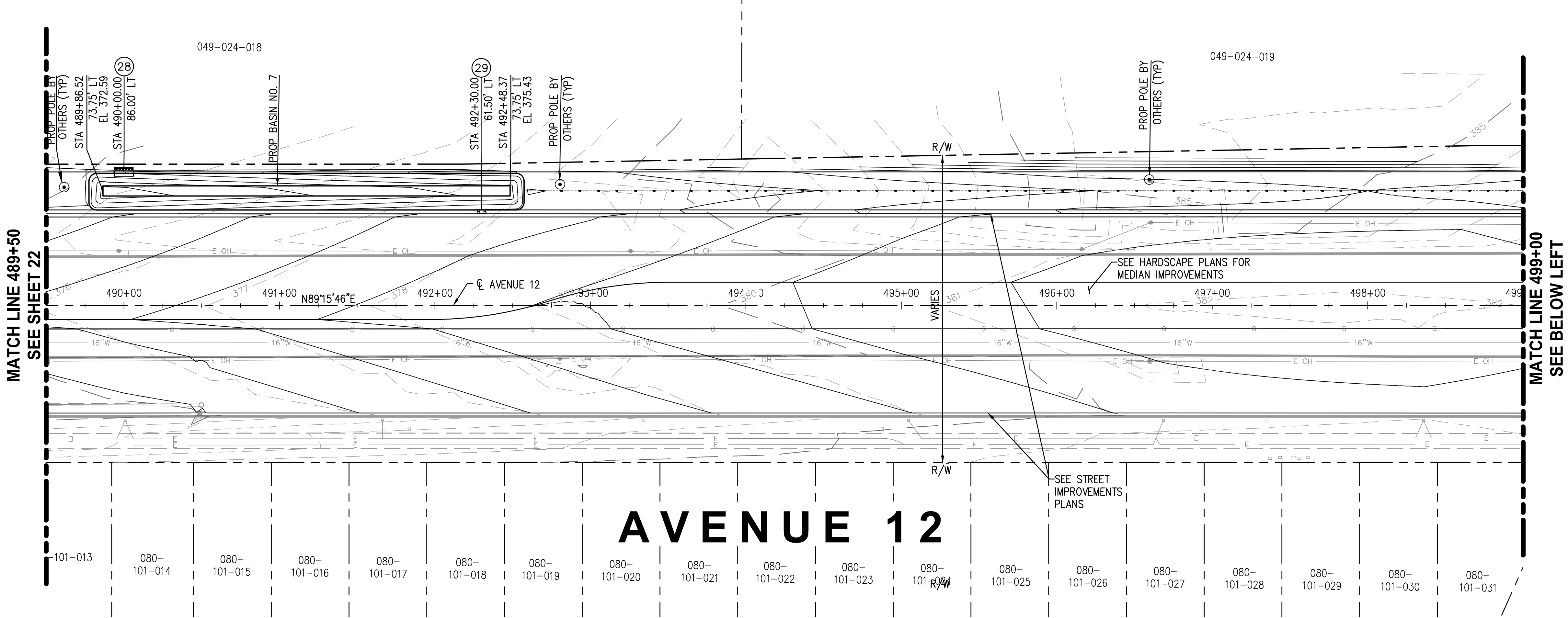
APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA AVENUE 12 WIDENING PROJECT GRADING & DRAINAGE PLAN STATION 472+00 TO STATION 489+50	SHEET 22 OF 49 DWG. NO. G-4
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90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

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Plotted By: Camryn Lopez



CONSTRUCTION NOTES

- 28 CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- 29 CONSTRUCT SWALE PER DETAILS ON SHEET 19
- 30 CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
- 31 CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
- 32 CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
- 33 INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
- 34 INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B

REVISIONS			
NO.	INITIAL	DESCRIPTION	DATE



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714/978-8200 fax 714/978-8299

PREPARED UNDER THE SUPERVISION OF

TYRONE PETER R.C.E. 81888 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: RSC/L	12/16/24
DESIGNED BY: RSC/LK	12/16/24
CHECKED BY: TP	12/16/24

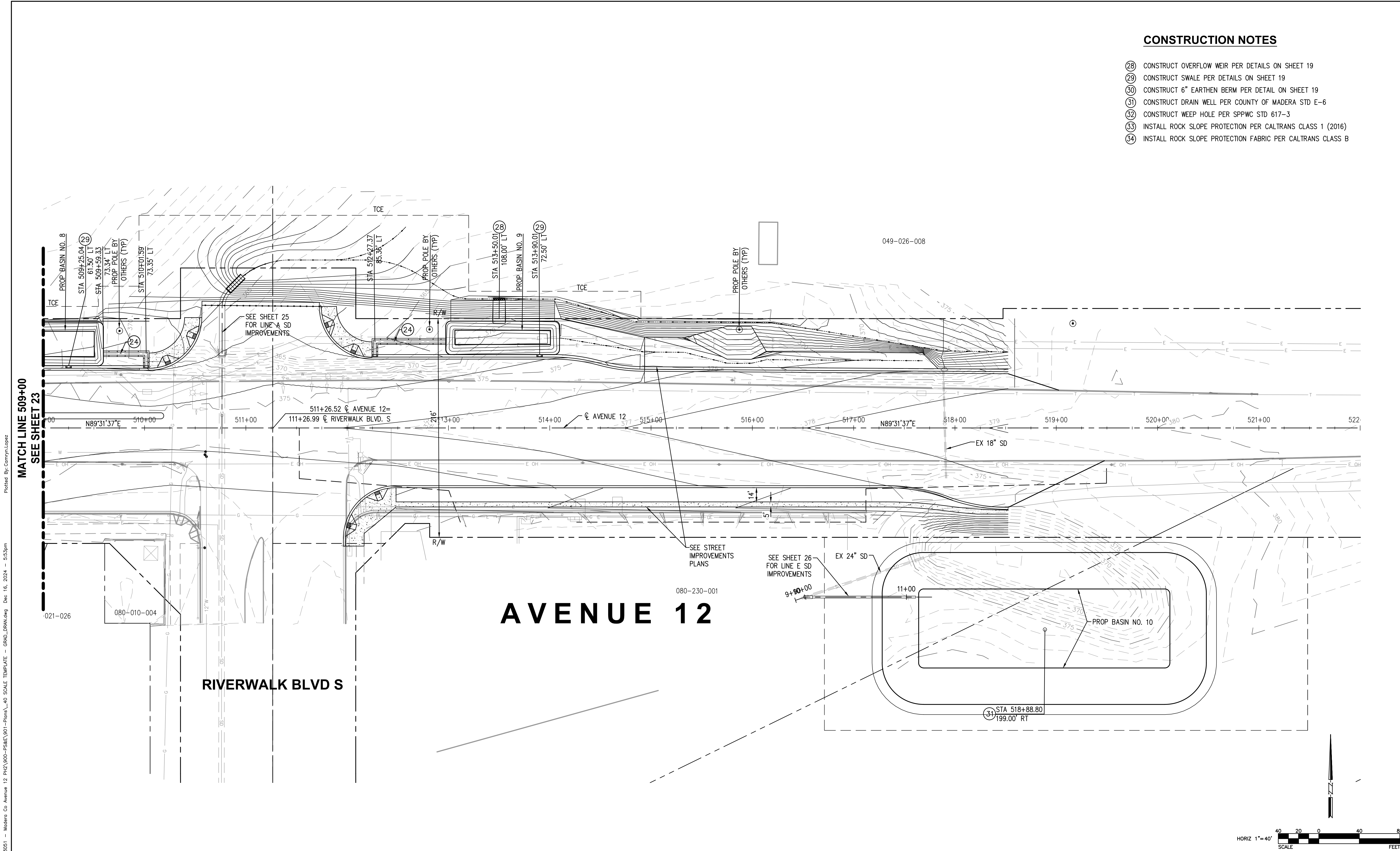


COUNTY OF MADERA DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	APPROVED JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS DATE
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COUNTY OF MADERA AVENUE 12 WIDENING PROJECT GRADING & DRAINAGE PLAN STATION 489+50 TO STATION 509+00	SHEET 23 OF 49 DWG. NO. G-5
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CONSTRUCTION NOTES

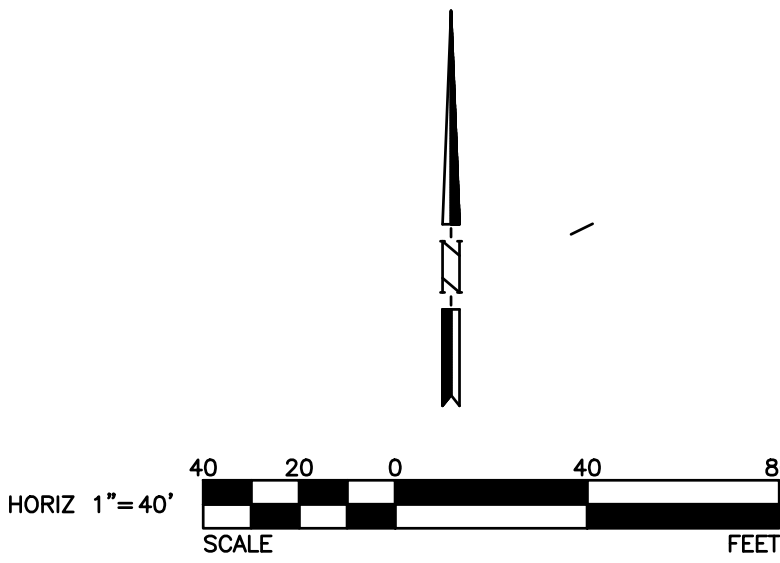
- 28 CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- 29 CONSTRUCT SWALE PER DETAILS ON SHEET 19
- 30 CONSTRUCT 6" EARTHEN BERM PER DETAIL ON SHEET 19
- 31 CONSTRUCT DRAIN WELL PER COUNTY OF MADERA STD E-6
- 32 CONSTRUCT WEEP HOLE PER SPPWC STD 617-3
- 33 INSTALL ROCK SLOPE PROTECTION PER CALTRANS CLASS 1 (2016)
- 34 INSTALL ROCK SLOPE PROTECTION FABRIC PER CALTRANS CLASS B



MATCH LINE 509+00
SEE SHEET 23

AVENUE 12

RIVERWALK BLVD S



	REVISIONS						SCALE: AS SHOWN DRAWN BY: RJS/CL DESIGNED BY: RJS/RK CHECKED BY: TP	DATE: 12/16/24 12/16/24 12/16/24		COUNTY OF MADERA DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	COUNTY OF MADERA AVENUE 12 WIDENING PROJECT GRADING & DRAINAGE PLAN STATION 509+00 TO PROJECT LIMITS	SHEET 24 OF 49 DWG. NO. G-6
	NO.	INITIAL	DESCRIPTION	APPROVED BY						DATE		

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TYRONE PETER
R.C.E. 81888
DATE

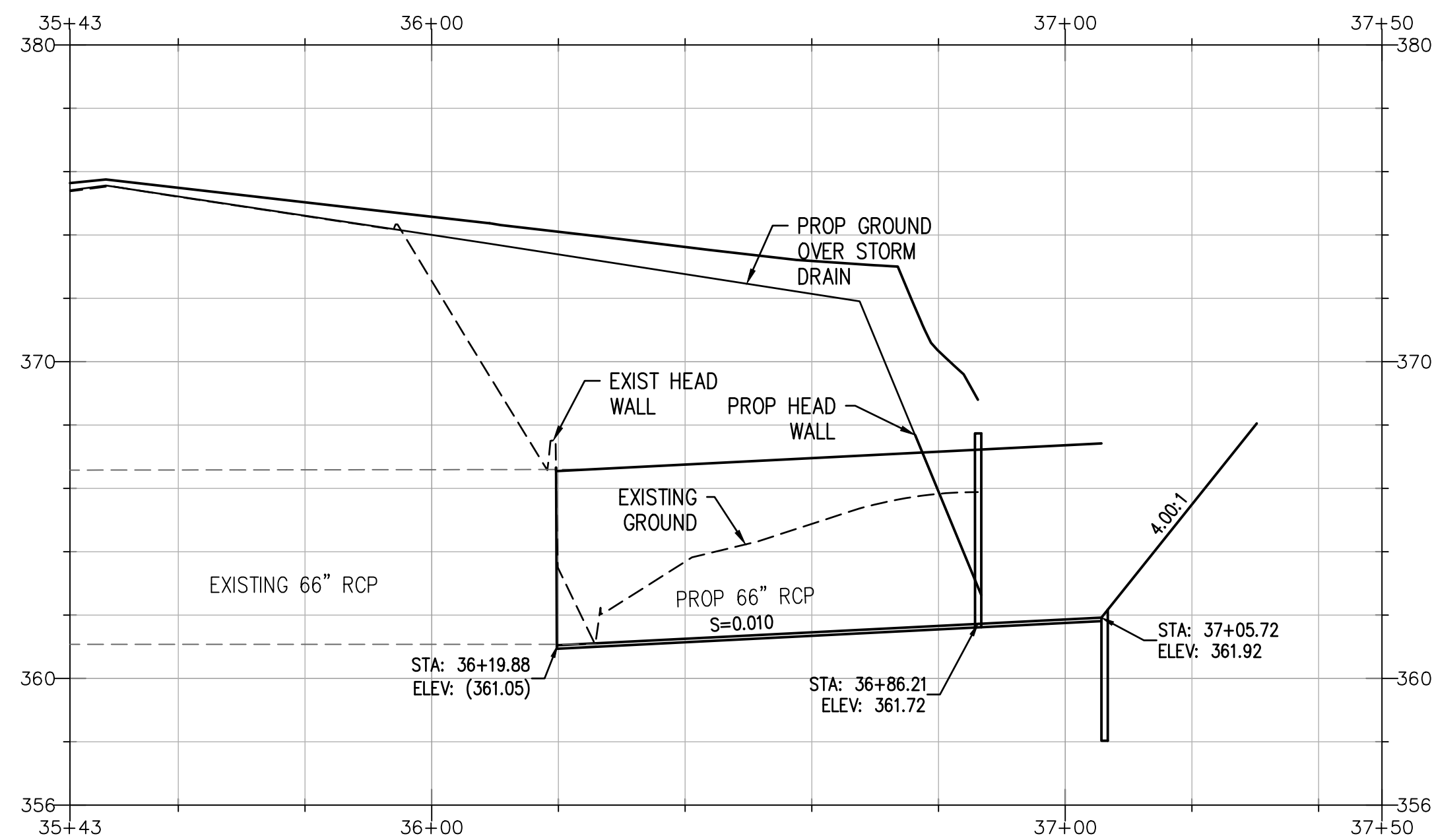
JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS
DATE

Plotted By: Camryn Lopez

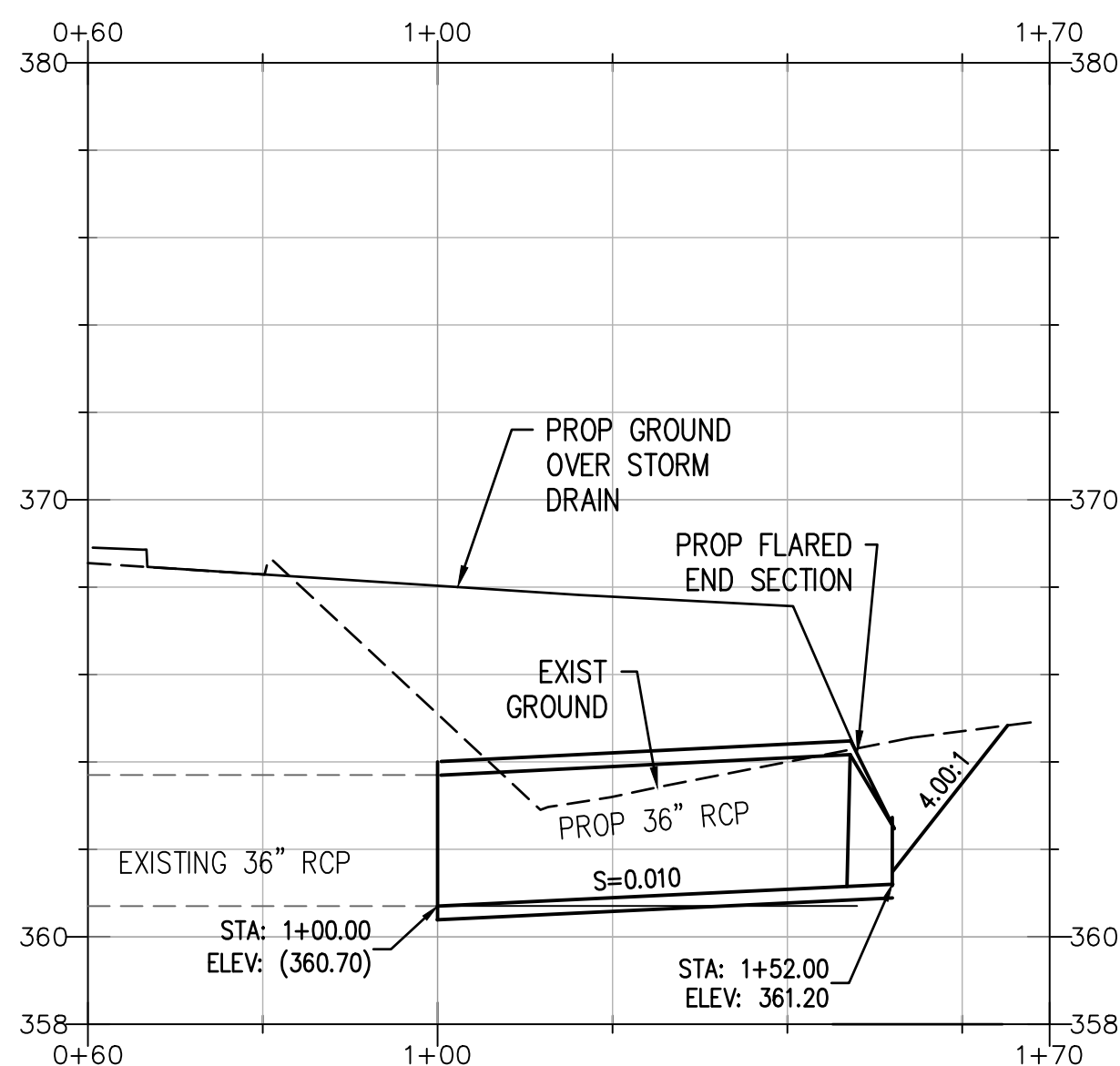
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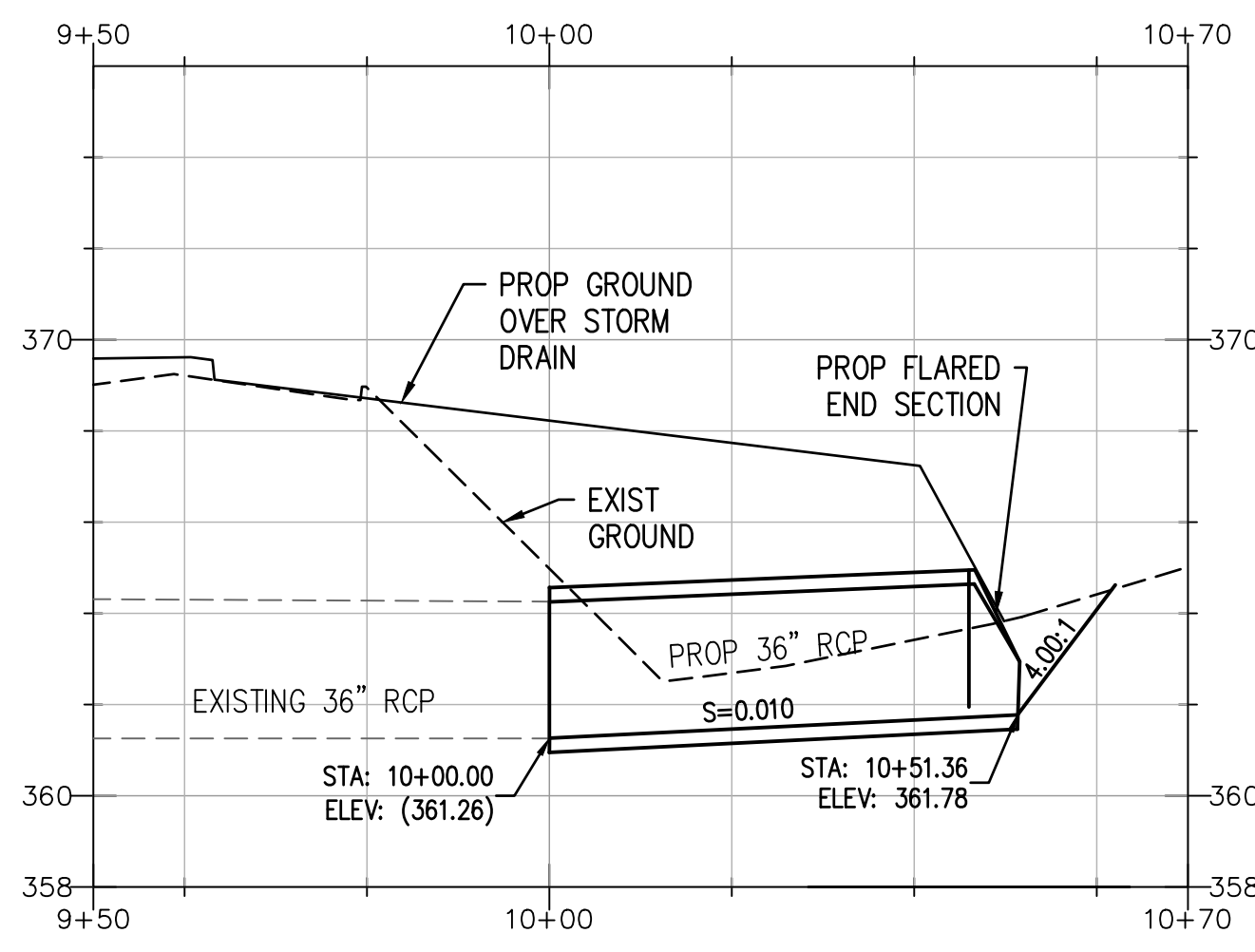
STORM DRAIN PROFILES



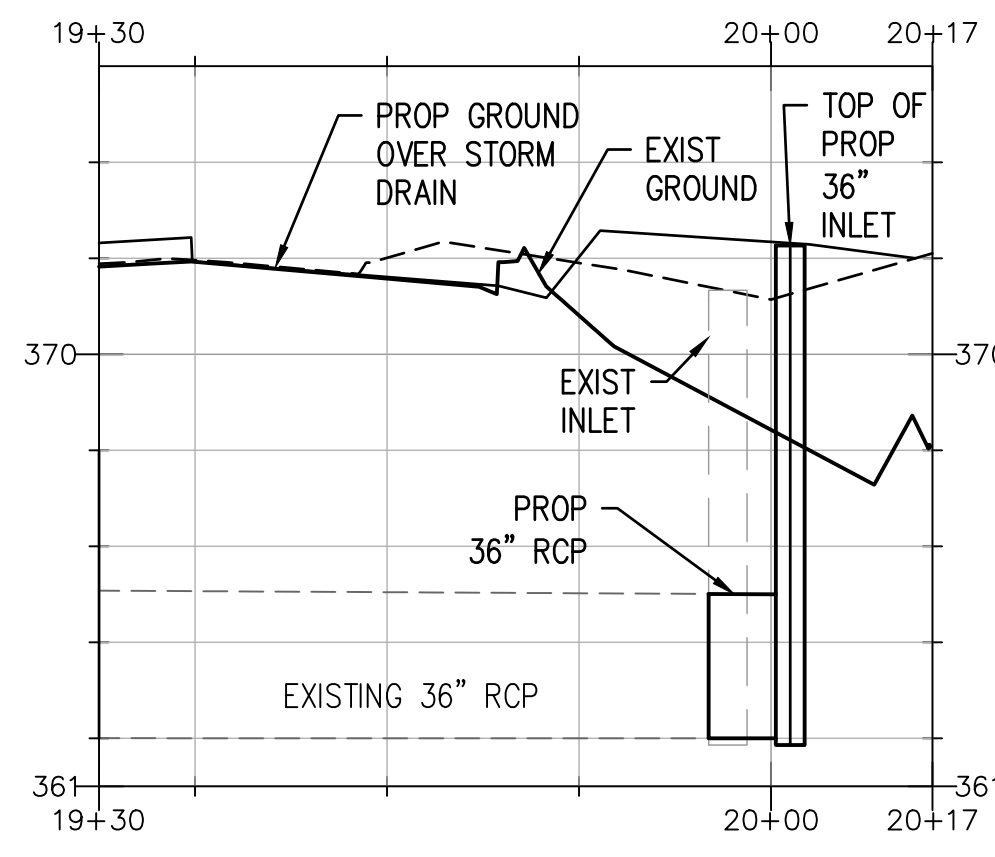
LINE A PROFILE



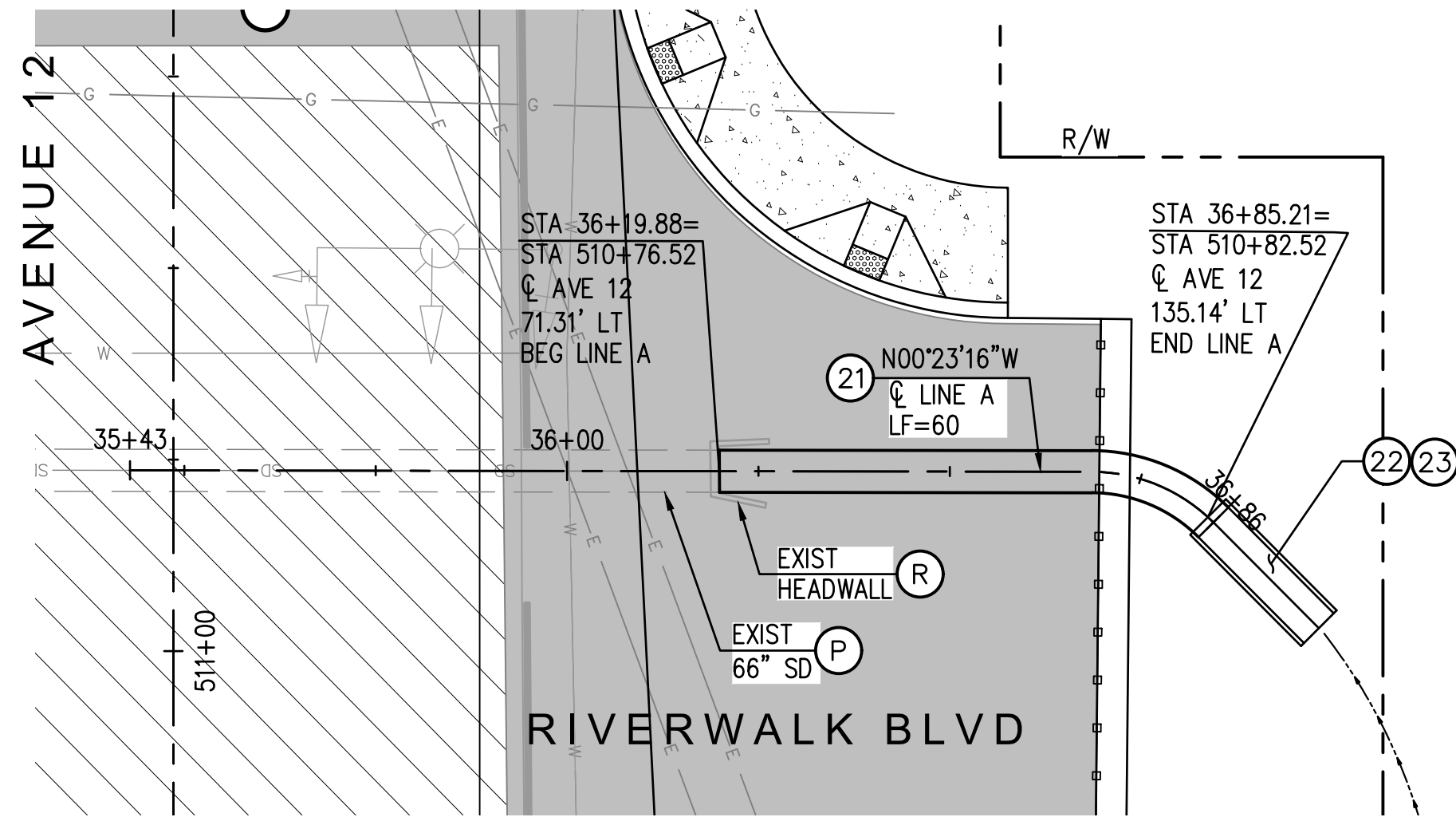
LINE B PROFILE



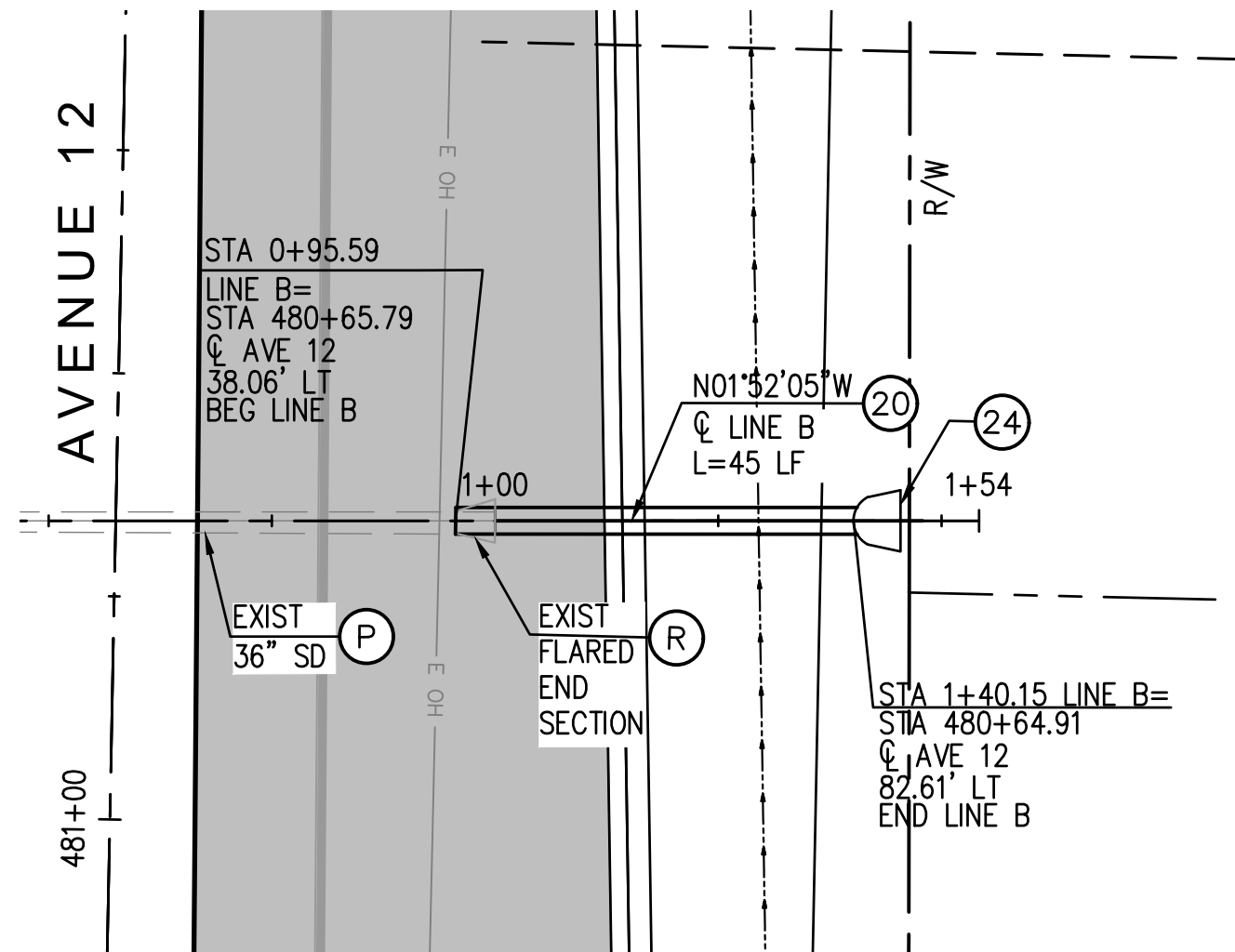
LINE C PROFILE



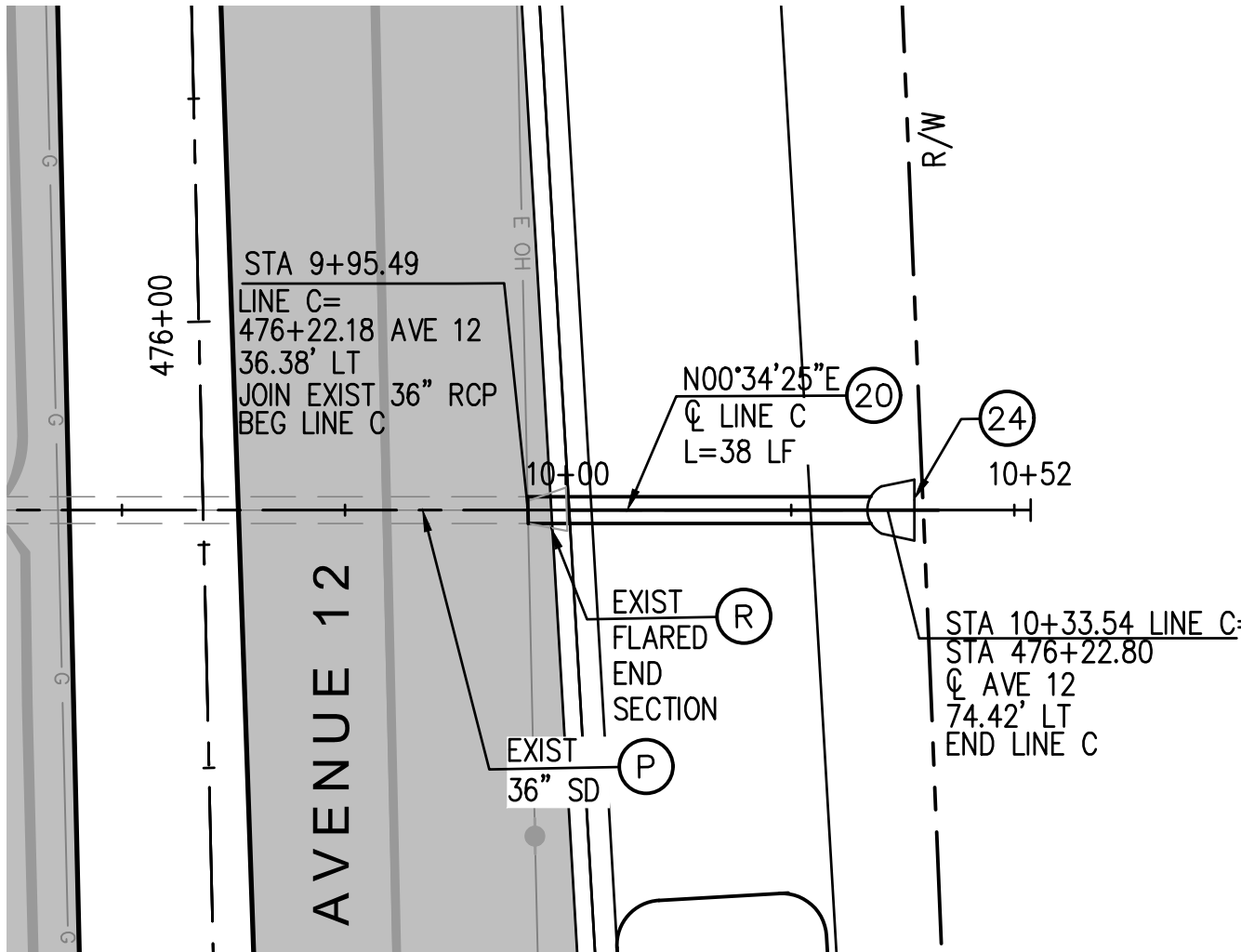
LINE D PROFILE



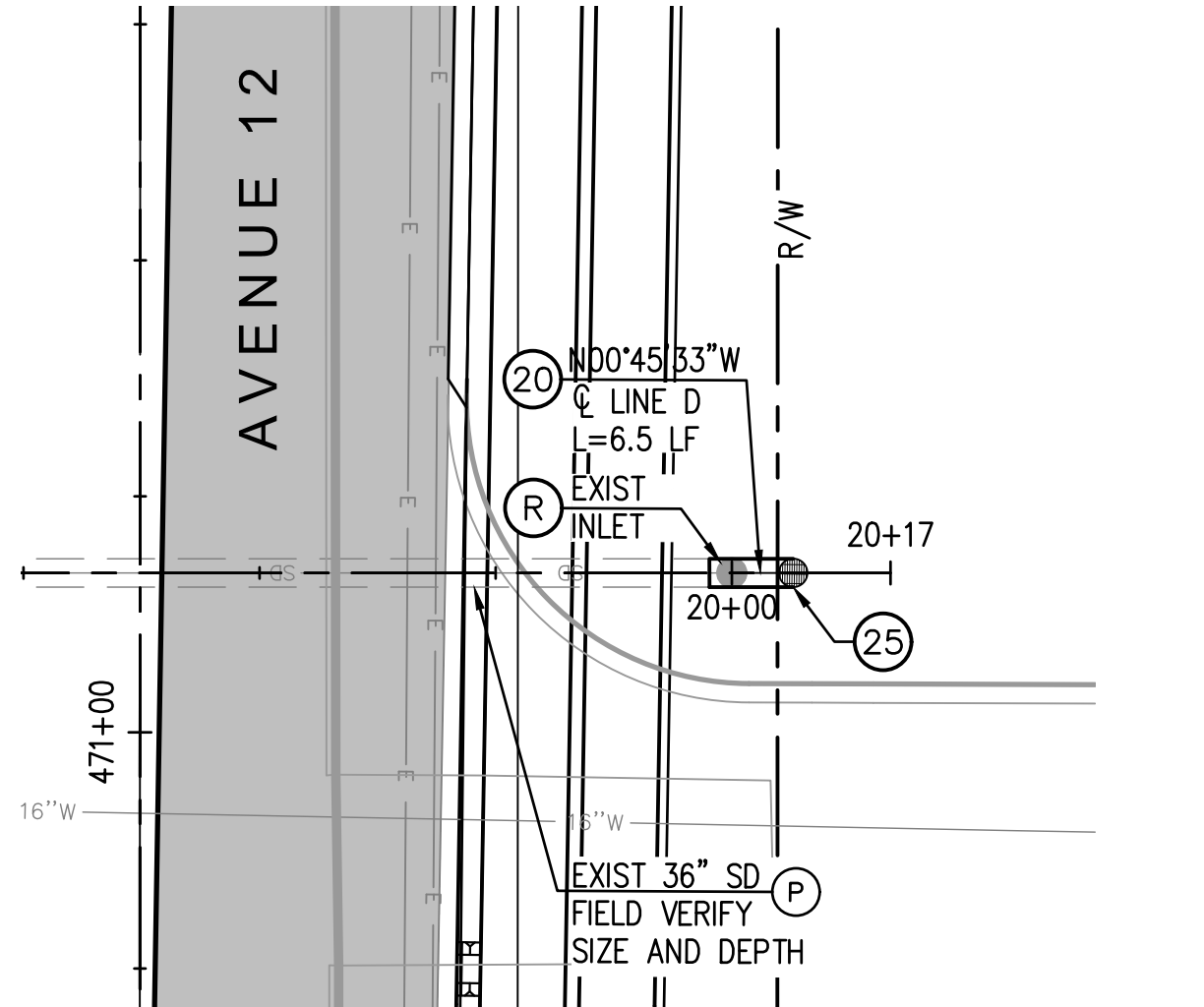
LINE A PLAN



LINE B PLAN



LINE C PLAN

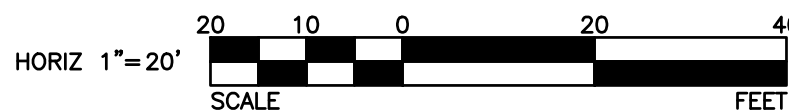


LINE D PLAN

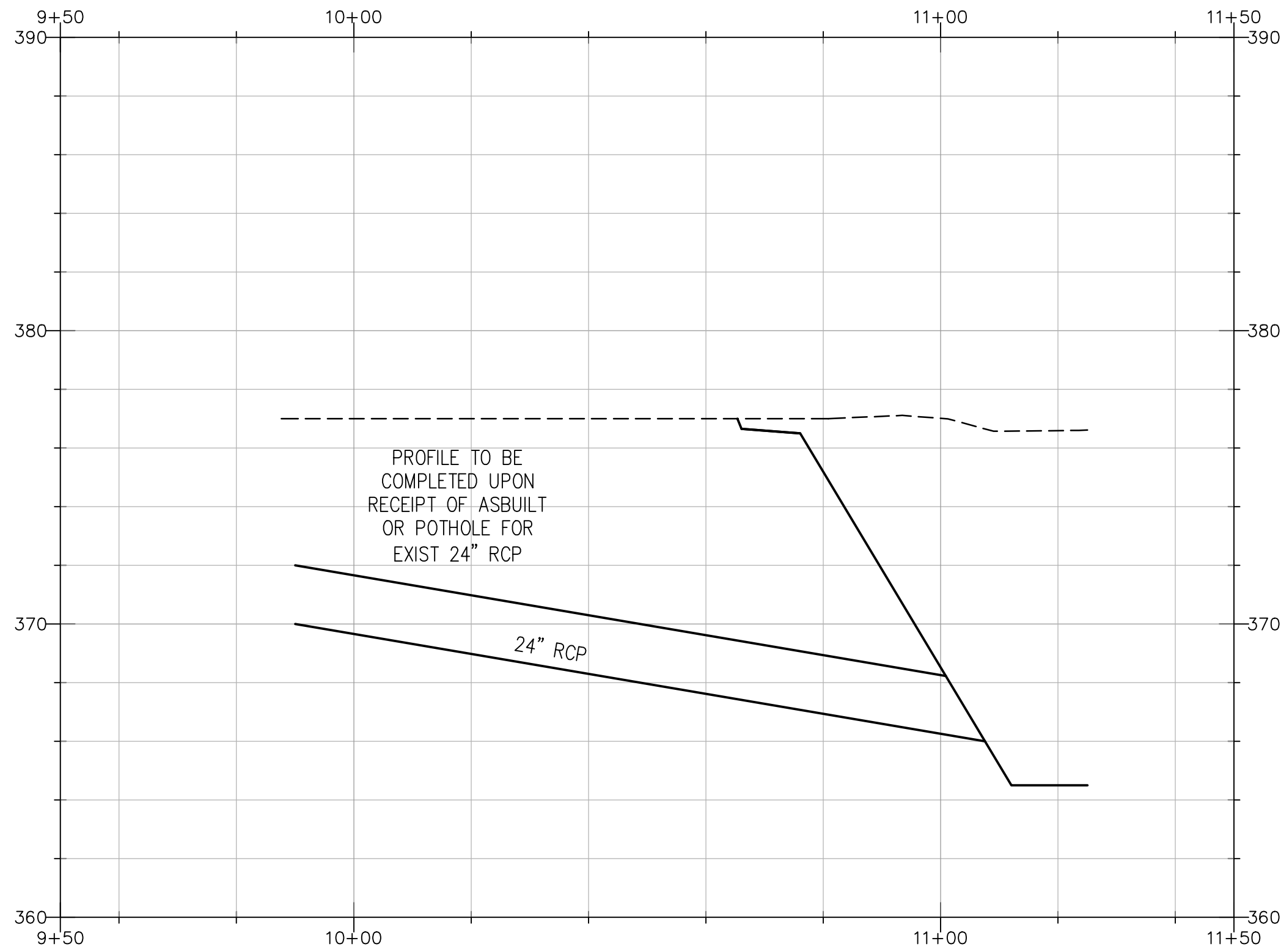
CONSTRUCTION NOTES

- 20 CONSTRUCT 36" RCP
- 21 CONSTRUCT 66" RCP
- 22 CONSTRUCT "STRAIGHT" HEAD WALL PER CALTRANS STD PLAN D86B
- 23 CONSTRUCT STORM FLARED END SECTION TRASH AND SAFETY RACK PER RCWD D-15
- 24 CONSTRUCT CONCRETE FLARED END SECTION PER CALTRANS STD PLAN D94B WITH TRASH RACK
- 25 CONSTRUCT STEEL PIPE INLET PER CALTRANS STD PLAN D75A, TYPE OMP

STORM DRAIN PLANS

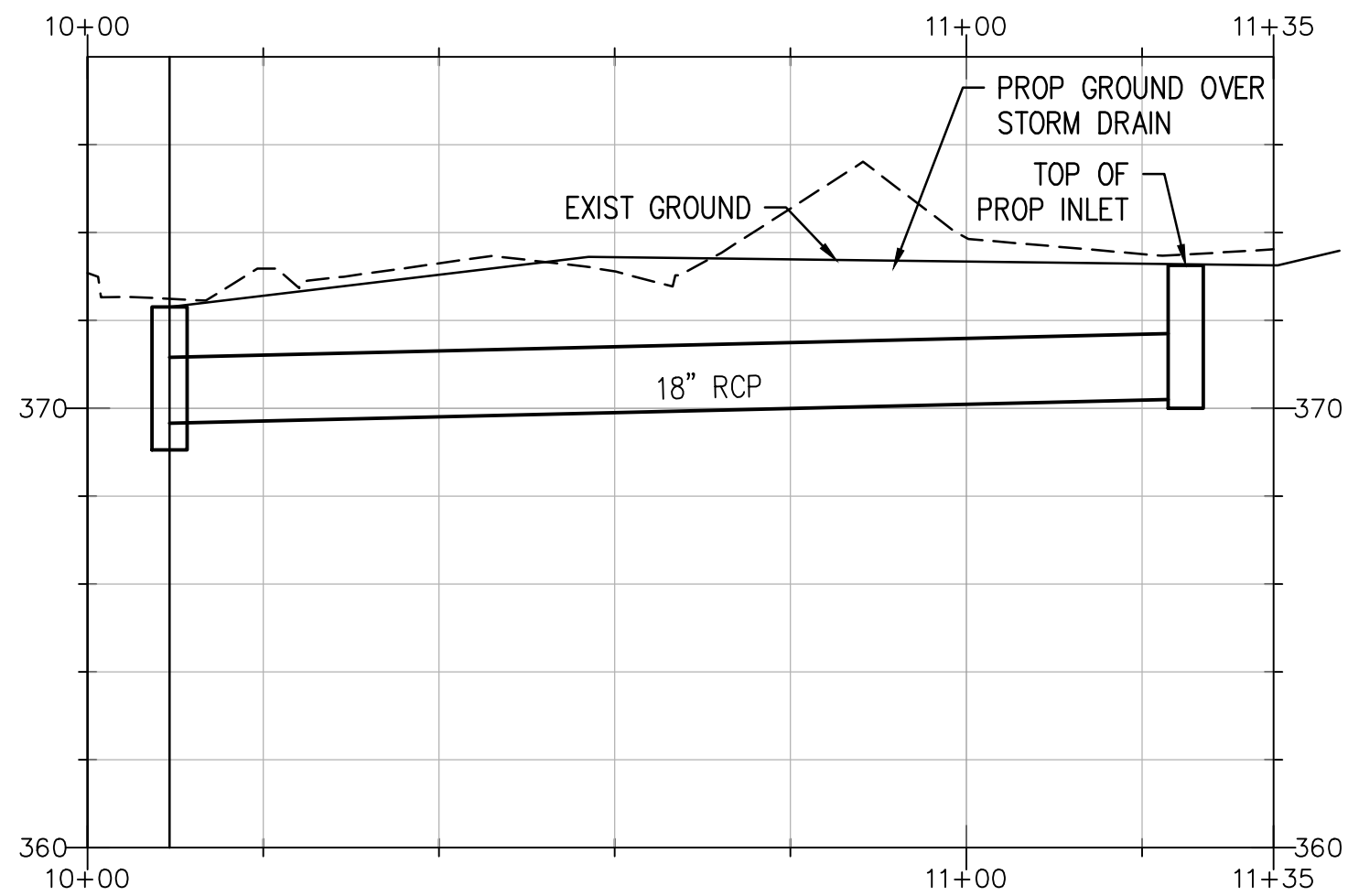


USANORTH811.ORG		REVISIONS					 2401 East Kalinda Ave. Suite 300, Anaheim, California 92806 714/978-8200 fax 714/978-8299	extending your reach	SCALE: AS SHOWN		DATE		COUNTY OF MADERA		COUNTY OF MADERA		SHEET	
811 what's below. call before you dig.		NO.	INITIAL	DESCRIPTION	APPROVED BY				DATE	DRAWN BY RGS,CL	12/16/24		DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	APPROVED	AVENUE 12 WIDENING PROJECT STORM DRAIN PLAN AND PROFILE		25 OF 49	
							PREPARED UNDER THE SUPERVISION OF		DESIGNED BY RGS,JK	12/16/24	JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS				DWG. NO. G-7			
							TYRONE PETER	R.C.E. 81888	CHECKED BY TP	12/16/24								



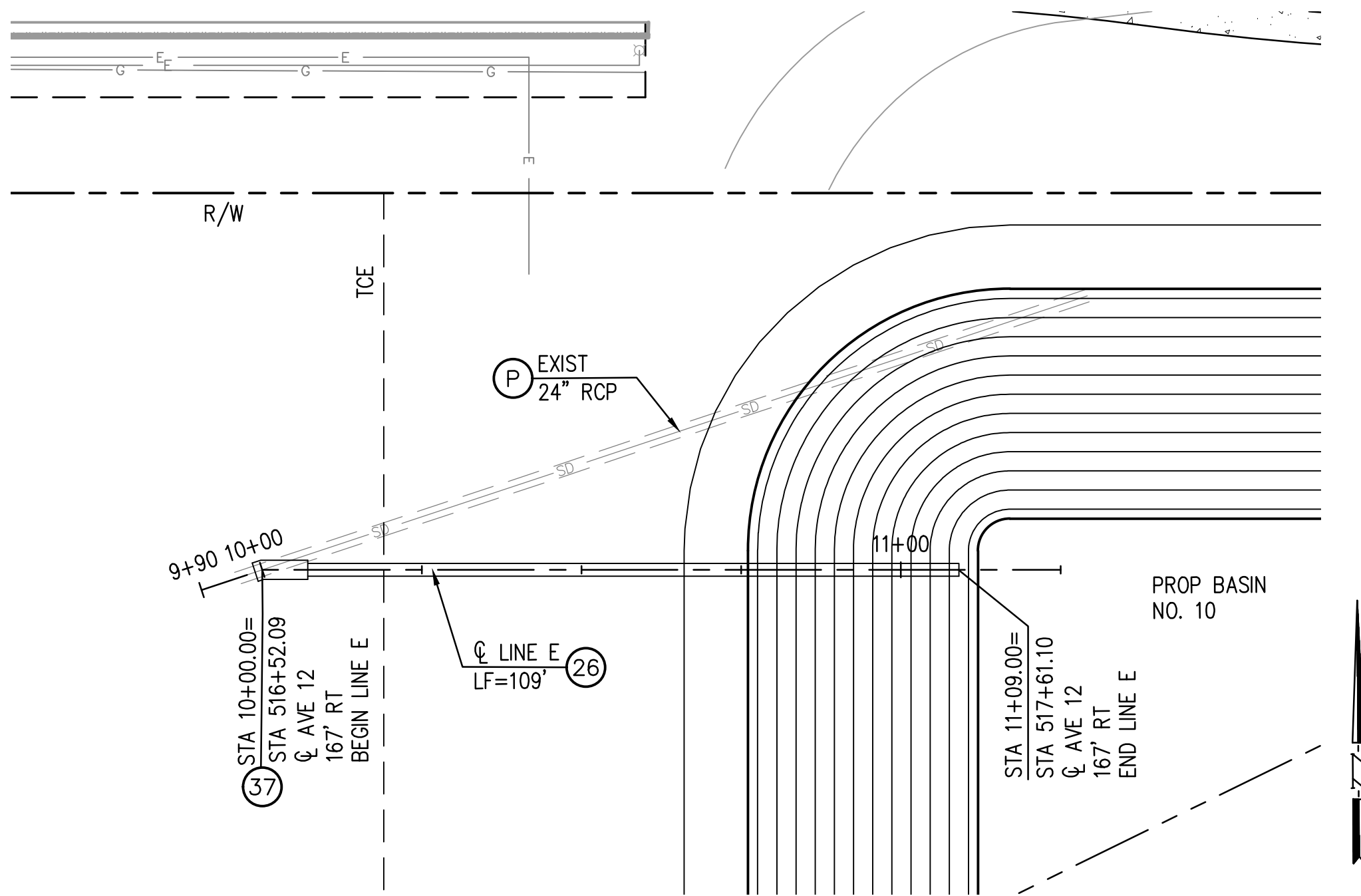
LINE E PROFILE

STORM DRAIN PROFILES

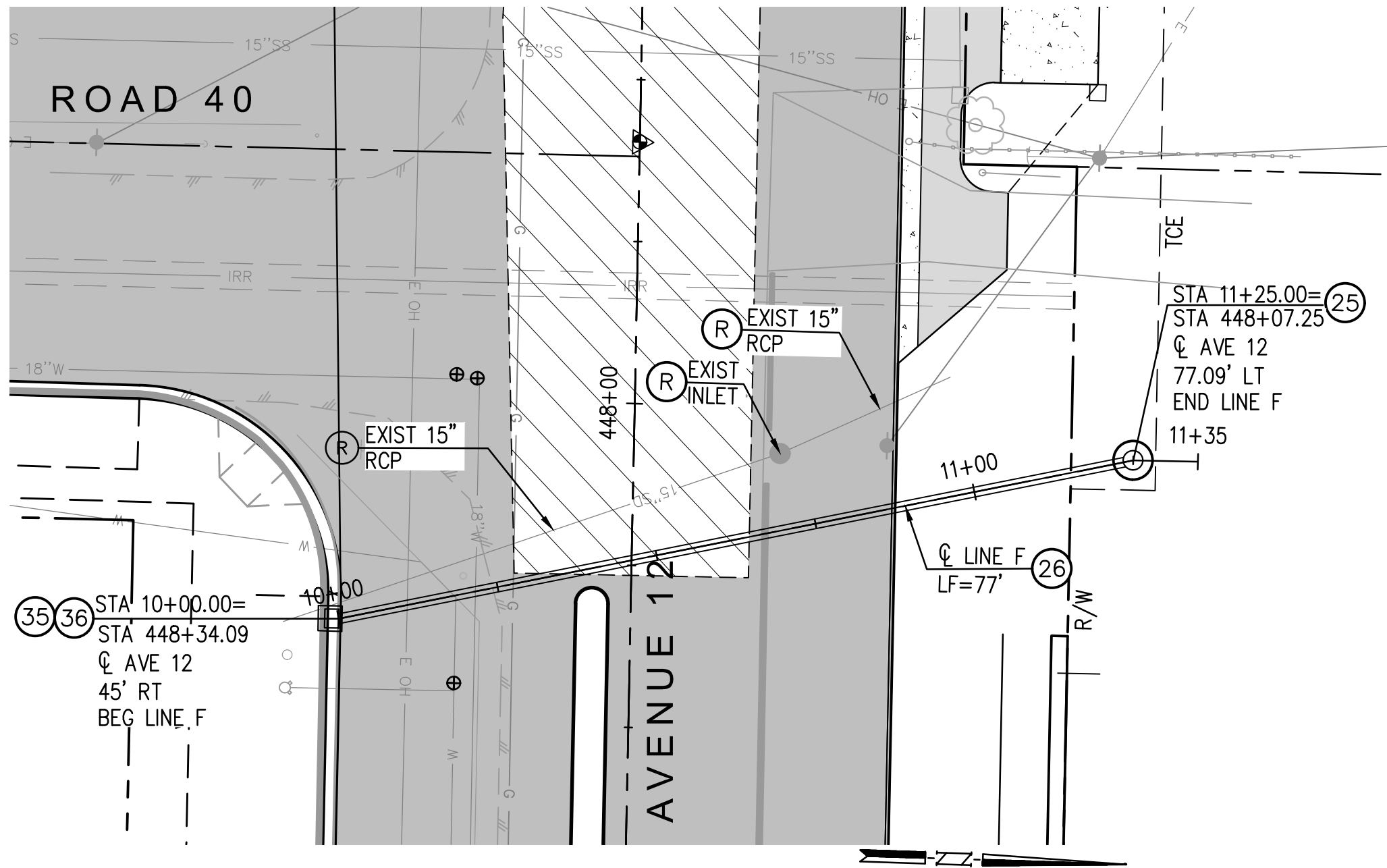


LINE F PROFILE

PROFILE SCALE
HORIZ.: 1"= 20'
VERT.: 1"= 4'



LINE E PLAN

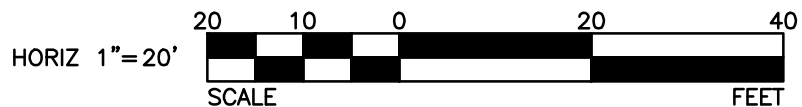


LINE F PLAN

CONSTRUCTION NOTES

- (20) CONSTRUCT 36" RCP
- (21) CONSTRUCT 66" RCP
- (22) CONSTRUCT "STRAIGHT" HEAD WALL PER CALTRANS STD PLAN D86B
- (23) CONSTRUCT STORM FLARED END SECTION TRASH AND SAFETY RACK PER RCWD D-15
- (24) CONSTRUCT CONCRETE FLARED END SECTION PER CALTRANS STD PLAN D94B WITH TRASH RACK
- (25) CONSTRUCT STEEL PIPE INLET PER CALTRANS STD PLAN D75A, TYPE OMP
- (26) CONSTRUCT 18" RCP
- (27) CONSTRUCT 24" RCP
- (28) CONSTRUCT OVERFLOW WEIR PER DETAILS ON SHEET 19
- (29) CONSTRUCT SWALE PER DETAILS ON SHEET 19
- (35) CONSTRUCT CAST IN PLACE STORM TYPE A DRAINAGE INLET PER RCWD D-8
- (36) CONSTRUCT CALTRANS D78A TYPE 60 AND 61-66 INLETS ON GRADE
- (37) CONSTRUCT CONCRETE COLLER PER SPPWC STD 380-4

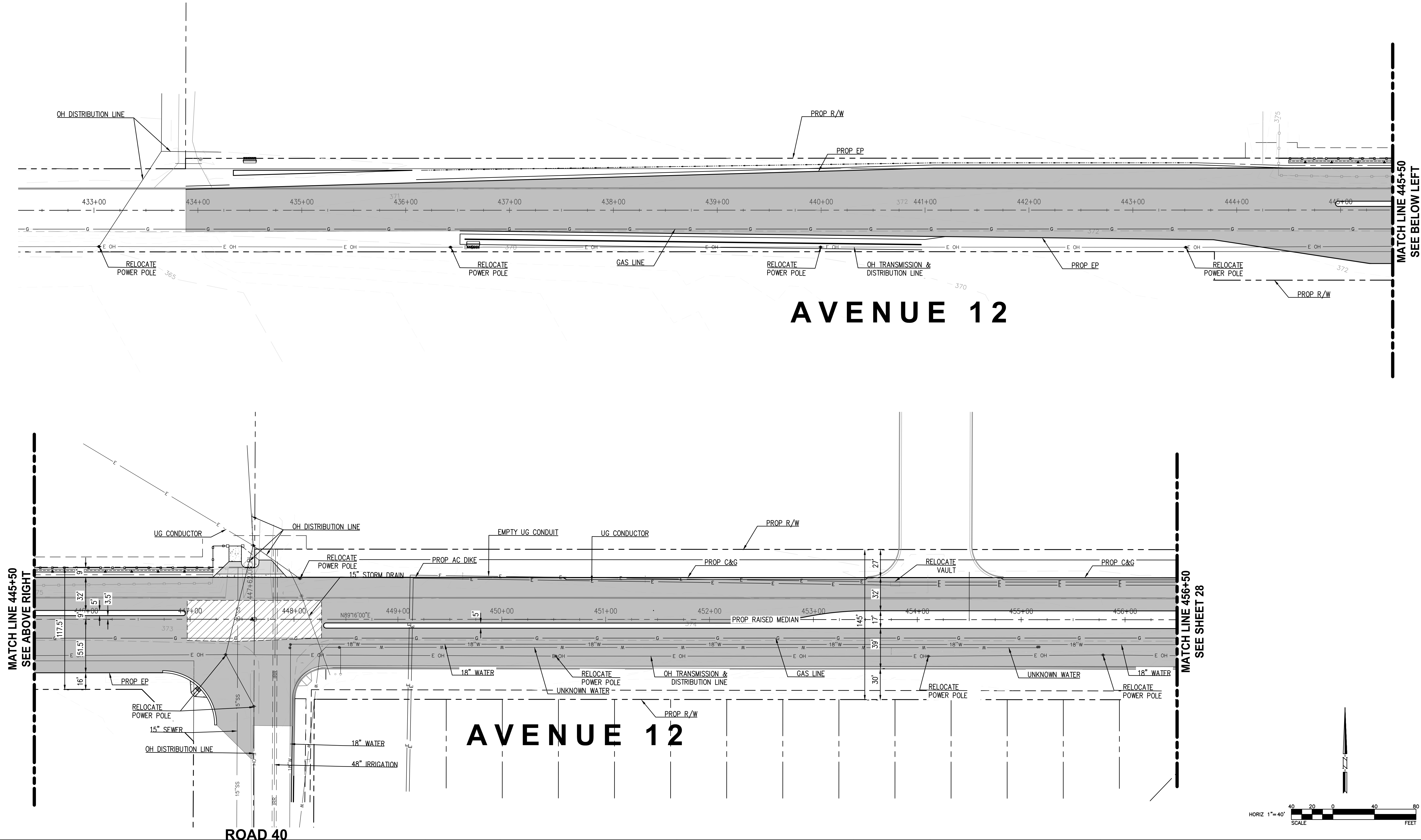
STORM DRAIN PLANS



 Know what's below. Call before you dig.	REVISIONS					 2401 East Kalinda Ave, Suite 300, Anaheim, California 92806 714/978-6200 fax 714/978-6299 PREPARED UNDER THE SUPERVISION OF TYRONE PETER R.C.E. 81888 DATE	SCALE: AS SHOWN DRAWN BY: RSC/L DESIGNED BY: RSC/JK CHECKED BY: TP	DATE 12/16/24 12/16/24 12/16/24	 COUNTY OF MADERA DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93607 APPROVED JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS	COUNTY OF MADERA AVENUE 12 WIDENING PROJECT STORM DRAIN PLAN AND PROFILE	SHEET 26 OF 49
	NO.	INITIAL	DESCRIPTION	APPROVED BY							DATE

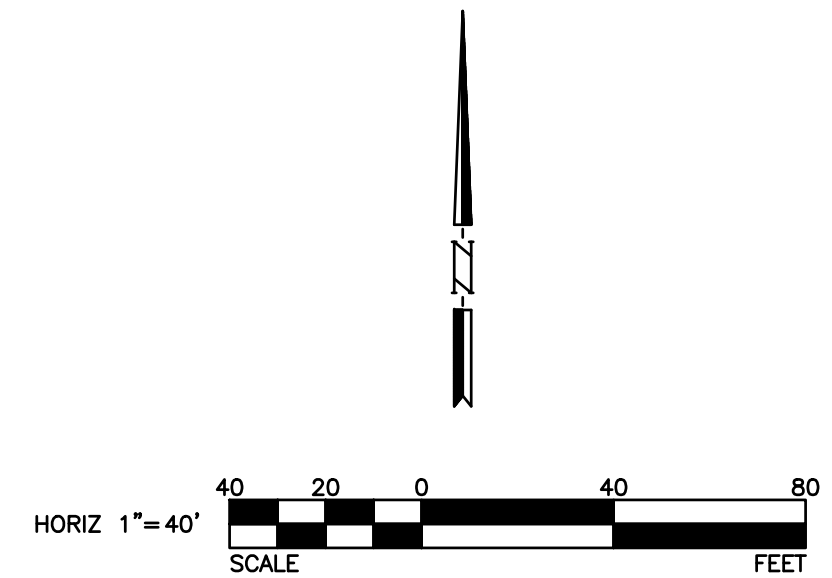
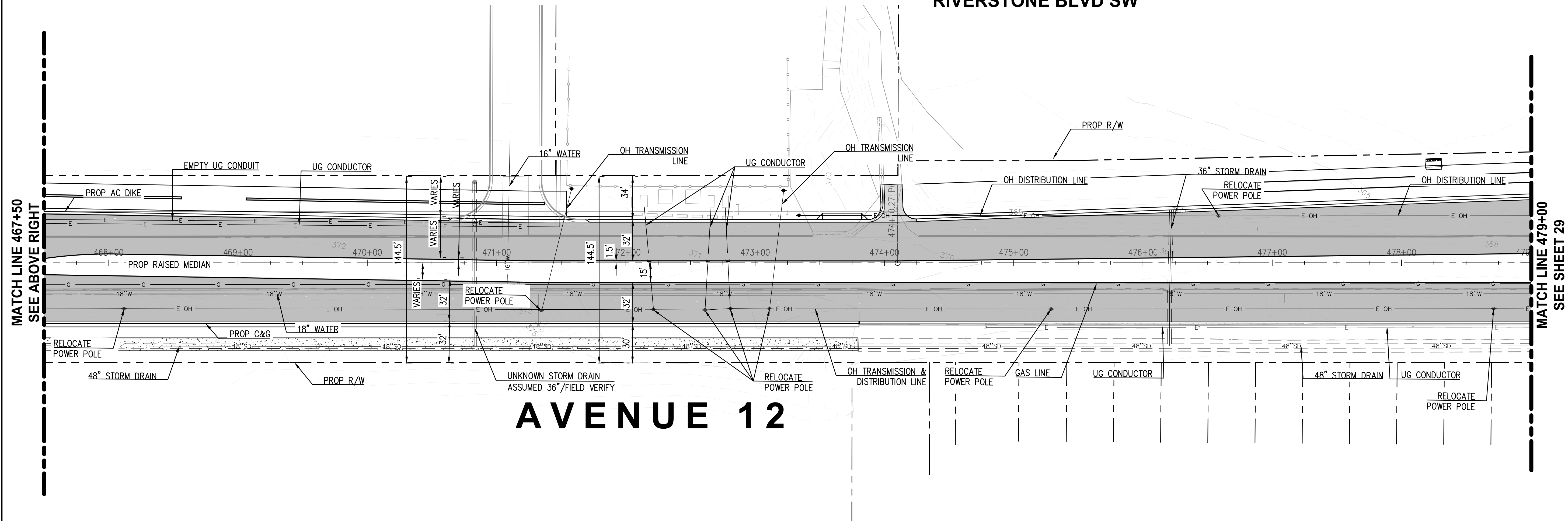
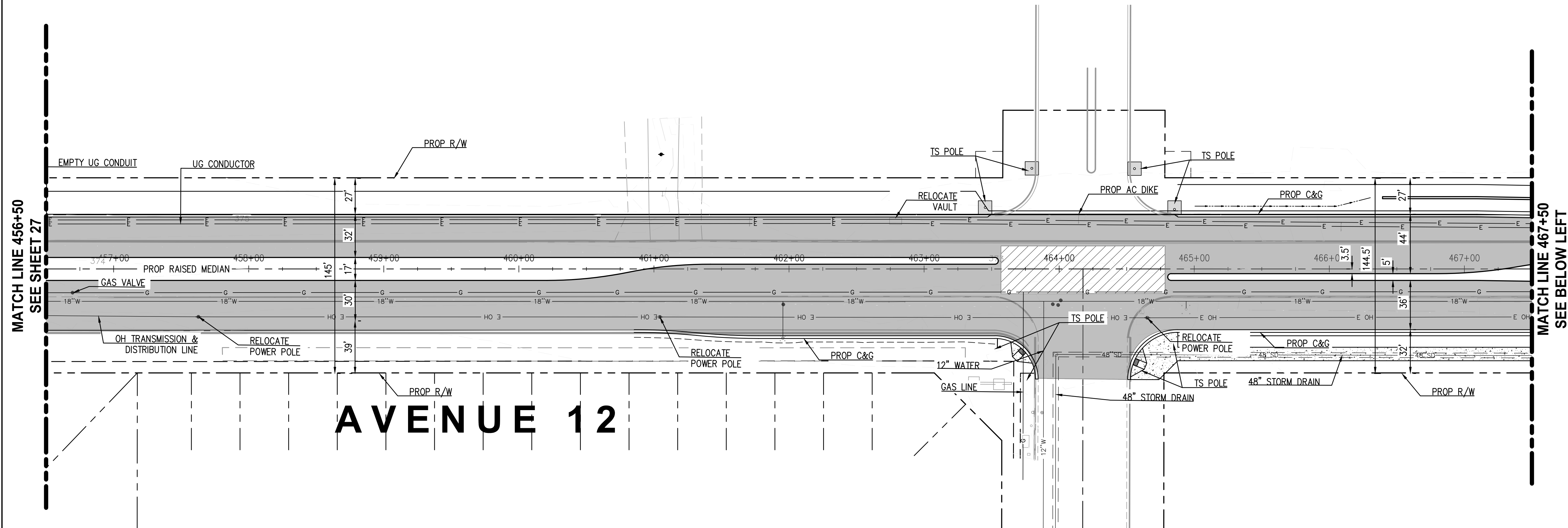
Plotted By: Camryn Lopez

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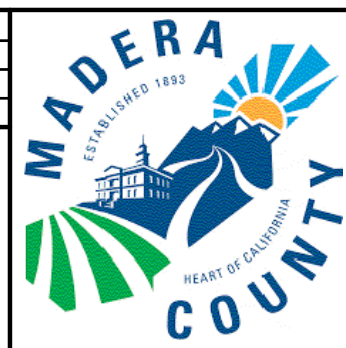
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PREPARED UNDER THE SUPERVISION OF

DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: [redacted]	DESIGNED BY: [redacted]
CHECKED BY: [redacted]	12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA		SHEET 28 OF 49
AVENUE 12 WIDENING PROJECT UTILITY PLAN STATION 456+50 TO STATION 479+00		
DWG. NO. UT-2		

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-PS&E\901-Plans\PL-UTIL-01.dwg Dec 16, 2024 - 6:25pm

MATCH LINE 479+00
SEE SHEET 28

MATCH LINE 489+50
SEE ABOVE RIGHT

MATCH LINE 489+50
SEE BELOW LEFT

MATCH LINE 501+25
SEE SHEET 30

AVENUE 12

AVENUE 12

RIVERSTONE BLVD SE

LODGE RD

REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



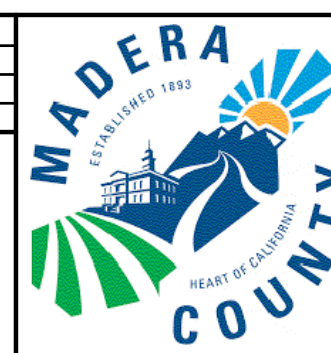
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714/979-8200 fax 714/979-8299

PREPARED UNDER THE SUPERVISION OF

DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY:	DESIGNED BY: 12/16/24
CHECKED BY:	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

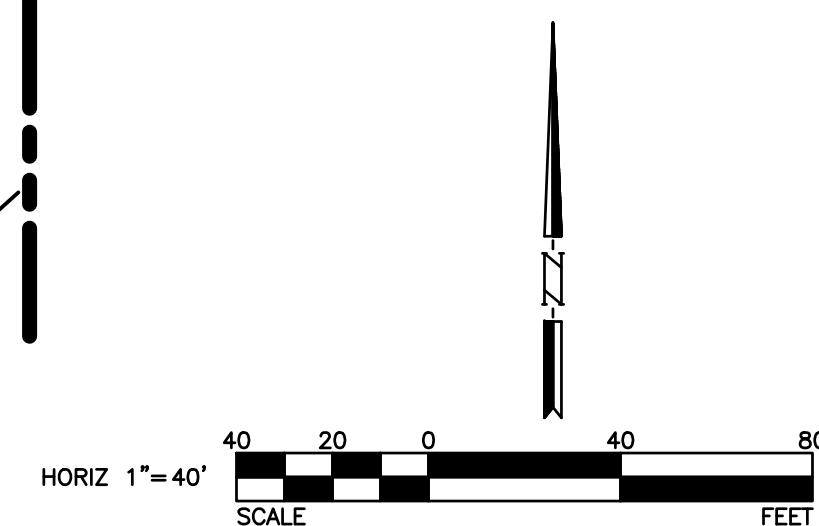
APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
UTILITY PLAN
STATION 479+00 TO STATION 501+25

SHEET
29 OF 49
DWG. NO.
UT-3



90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

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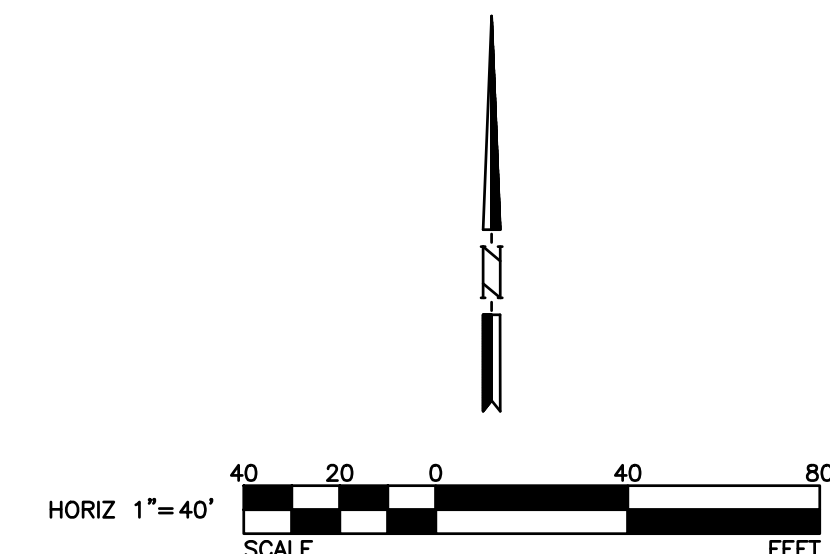
MATCH LINE 501+25
SEE SHEET 29

MATCH LINE 513+50
SEE BELOW LEFT

AVENUE 12

RIVERWALK BLVD S

MATCH LINE 513+50
SEE ABOVE RIGHT



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



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714/978-8200 fax 714/978-8299

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DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: 12/16/24	DESIGNED BY: 12/16/24
CHECKED BY: 12/16/24	



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

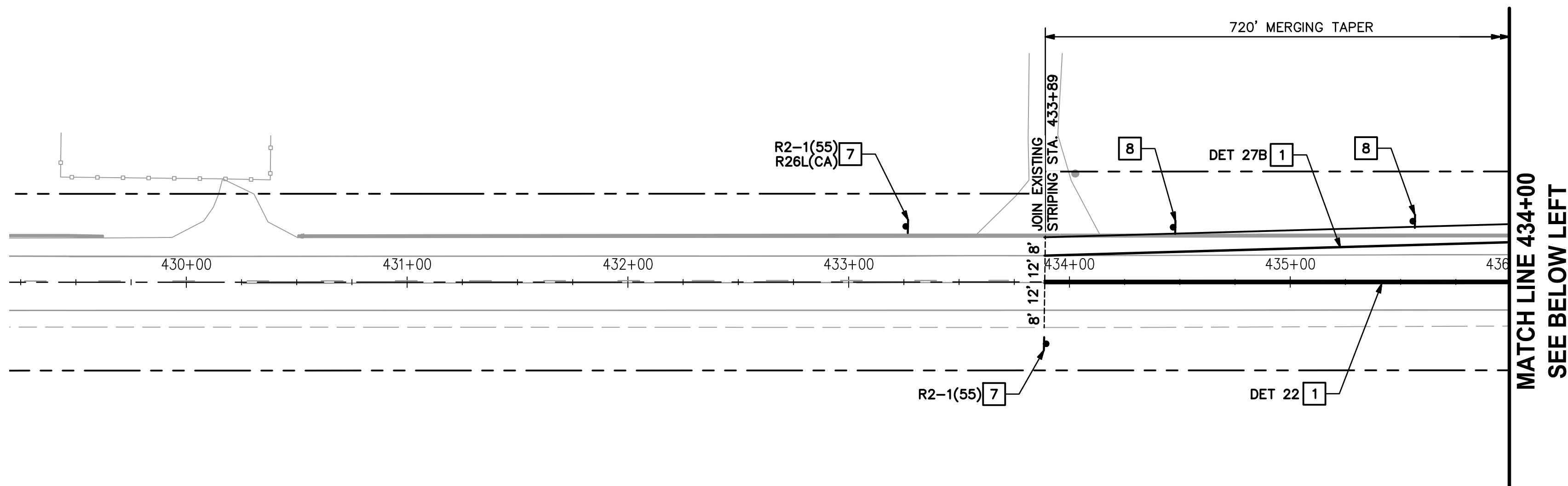
COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
UTILITY PLAN
STATION 501+25 TO WEST OF HWY 41

DWG. NO.
UT-4

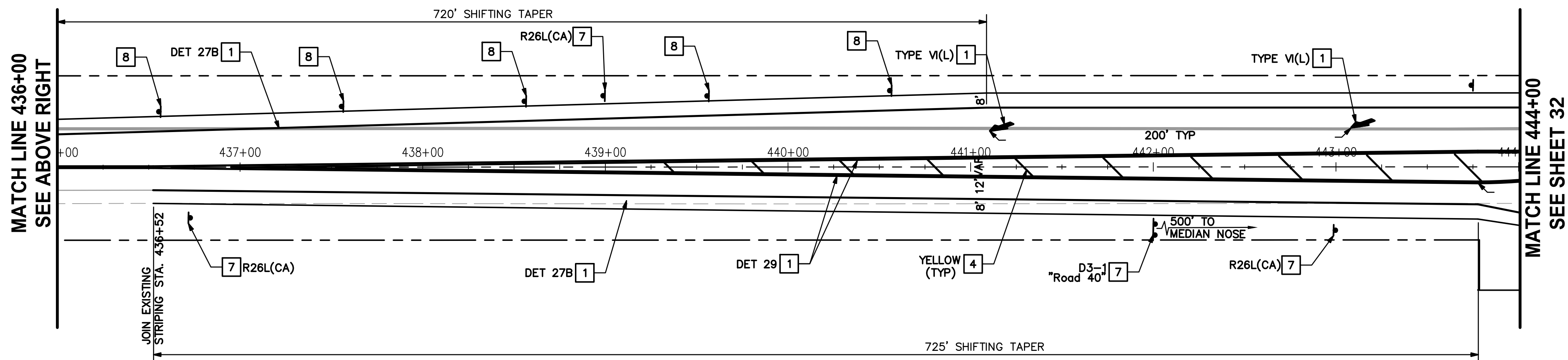
90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

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AVENUE 12



AVENUE 12

SIGNING AND STRIPING GENERAL NOTES:

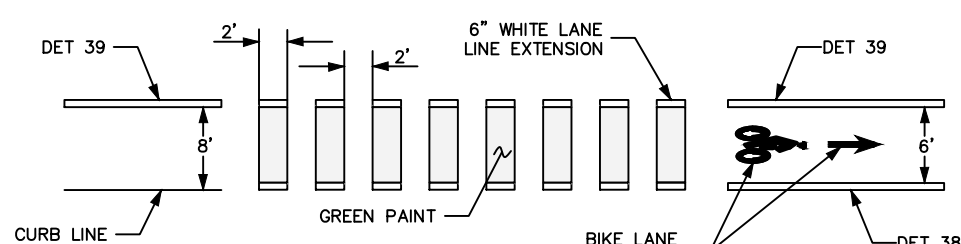
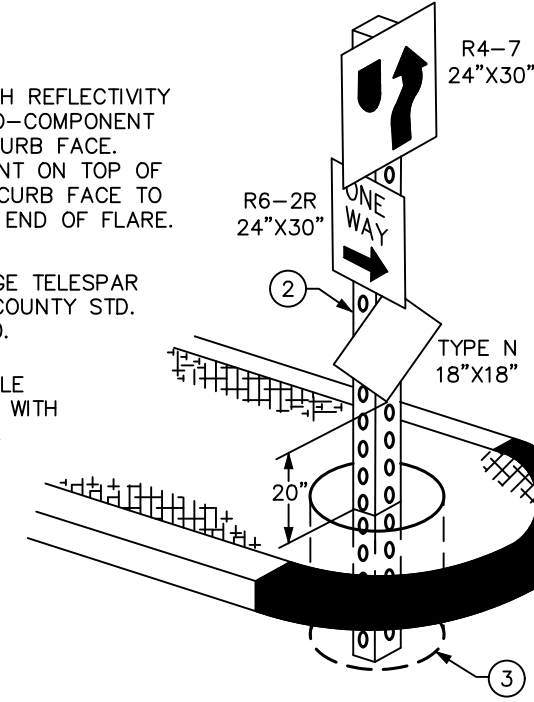
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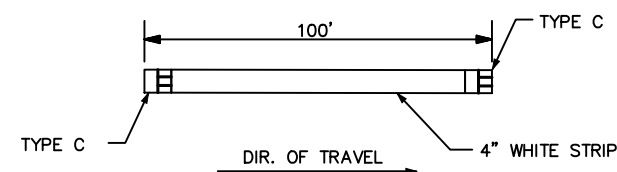
DETAIL "B"
NO SCALE

DETAIL "C"
NO SCALE

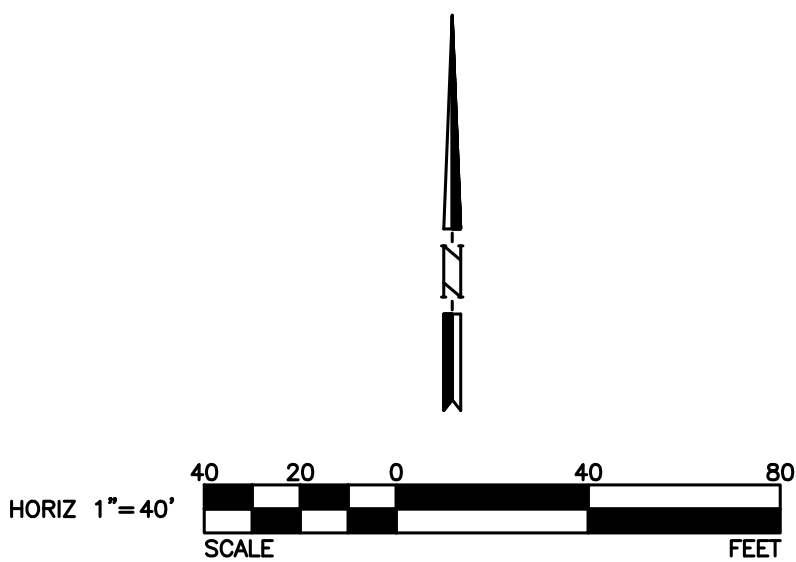
LEGEND

- (S) SIGNALIZED INTERSECTION

----- PAVING LIMITS



DETAIL "A"
NO SCALE



USANORTH11.ORG



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE

SCALE:	AS SHOWN	DATE
DRAWN BY:	SB	12/16/24
DESIGNED BY:	SB	12/16/24
CHECKED BY:	JL	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
SIGNING AND STRIPING PLAN

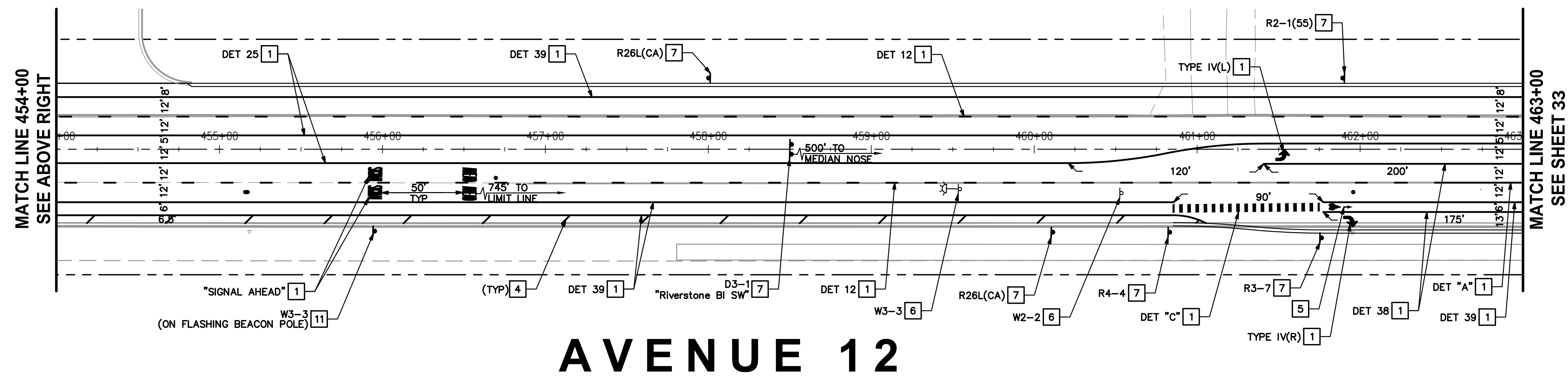
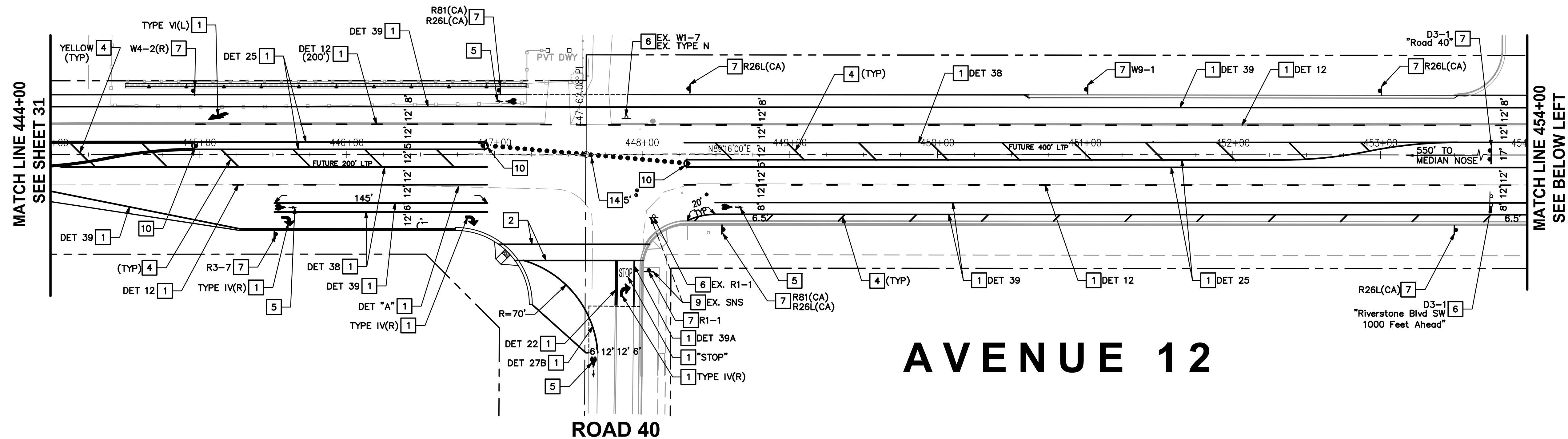
AVENUE 12
STATION 433+89 TO STATION 444+00

SHEET

31 OF 49

DWG. NO.
SS-1

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



SIGNING AND STRIPING GENERAL NOTES:

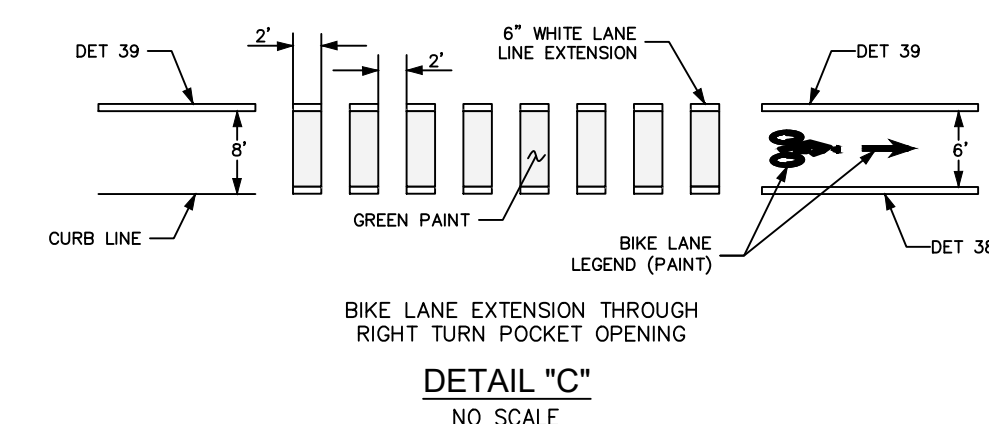
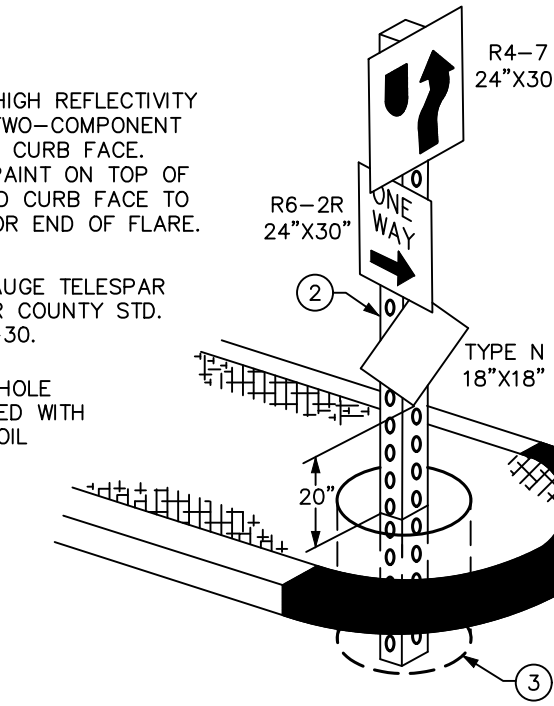
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- 17 CONSTRUCT TYPE 2 SLURRY SEAL.

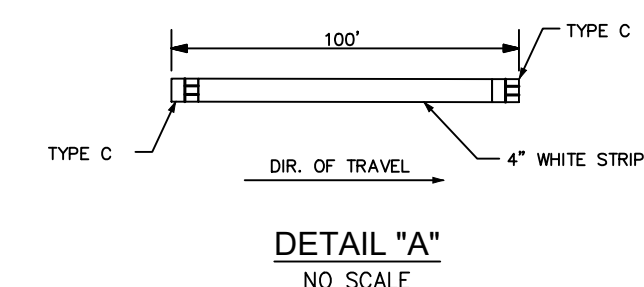
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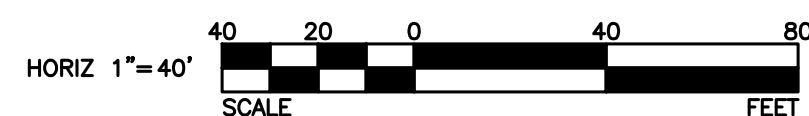


LEGEND

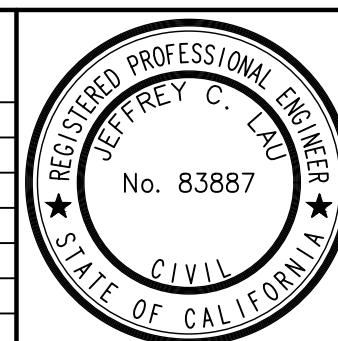
- (S) SIGNALIZED INTERSECTION
----- PAVING LIMITS



DETAIL "C"
NO SCALE



REVISIONS

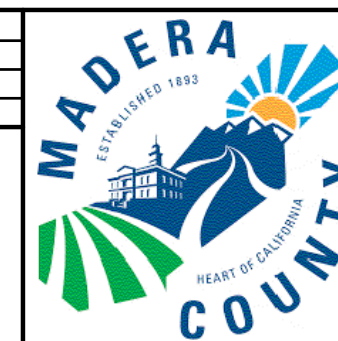
[illegible]

PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU P.C.F. #1887

extending
your
reach

SCALE:	AS SHOWN	DATE
DRAWN BY	BB	12/16/24
DESIGNED BY	BB	12/16/24
CHECKED BY	JL	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DIRTYLY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
SIGNING AND STRIPING PLAN
AVENUE 12
STATION 444+00 TO STATION 463+00

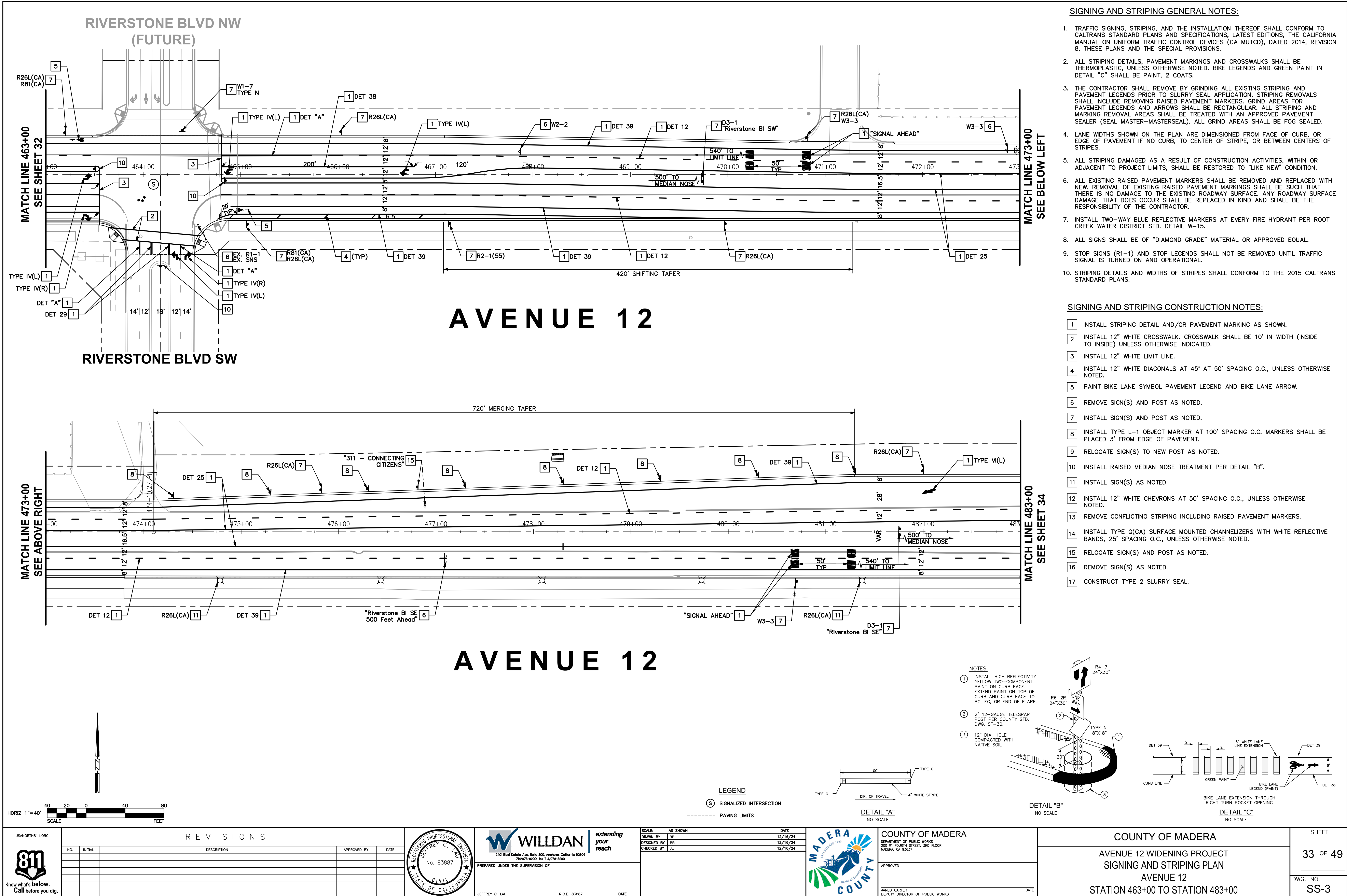
SHEET

32 OF 49

DWG. NO.
SS-2

Plotted By: Camryn Lopez

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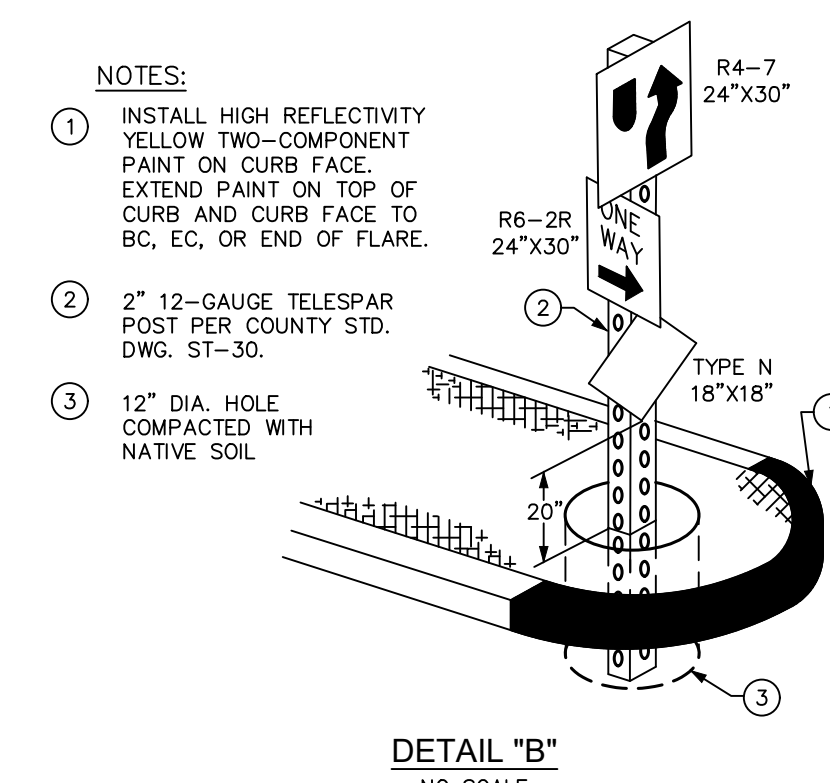
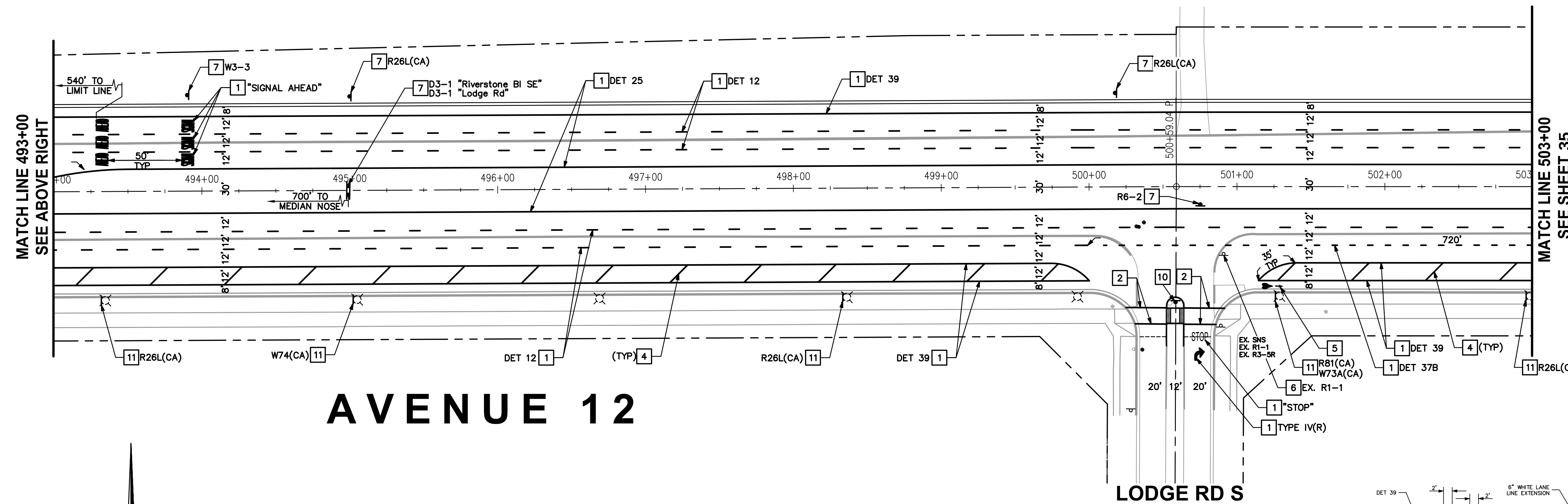
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90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



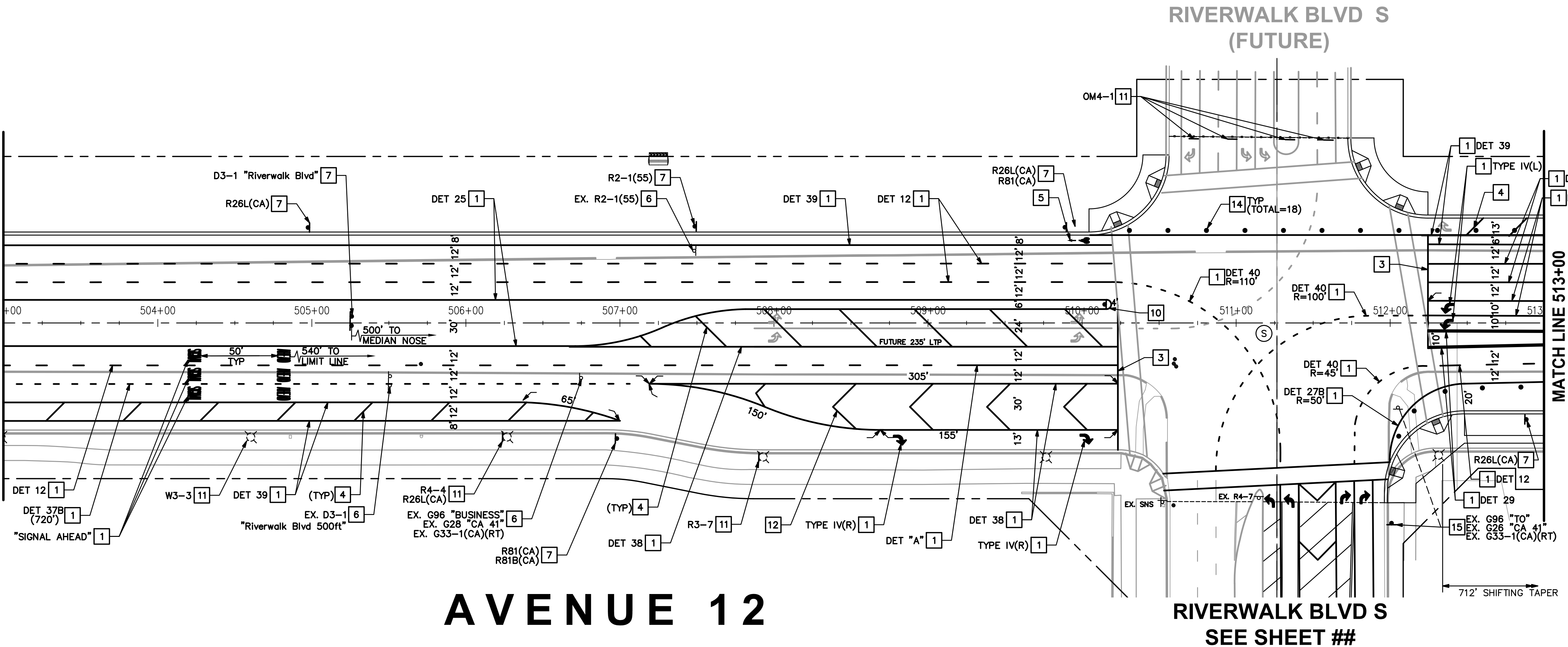
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Plotted By: Camryn Lopez

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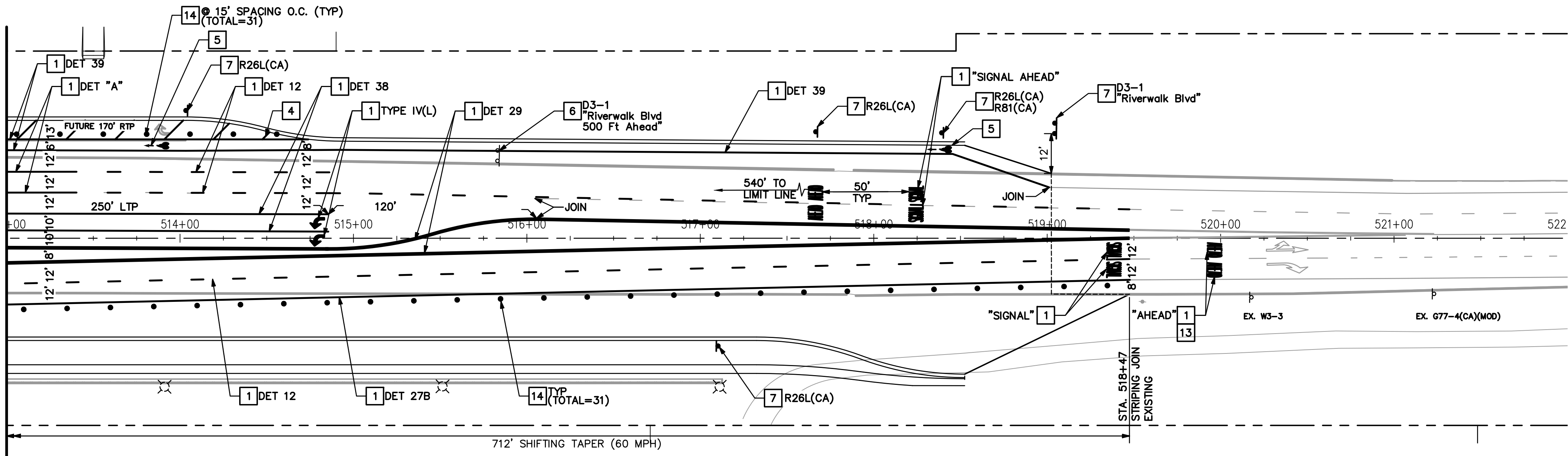
MATCH LINE 503+00
SEE SHEET 34



AVENUE 12

RIVERWALK BLVD S
SEE SHEET ##

MATCH LINE 513+00
SEE ABOVE RIGHT



AVENUE 12

SIGNING AND STRIPING GENERAL NOTES:

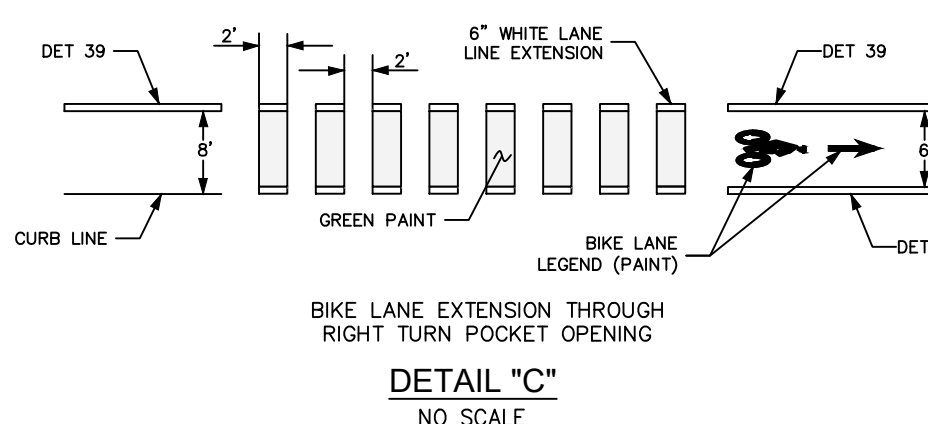
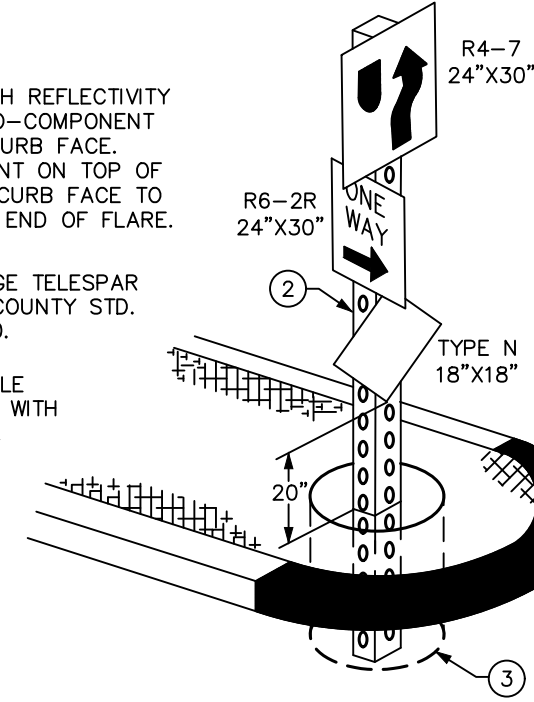
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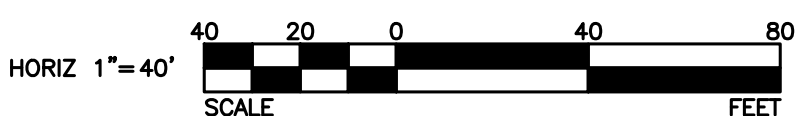
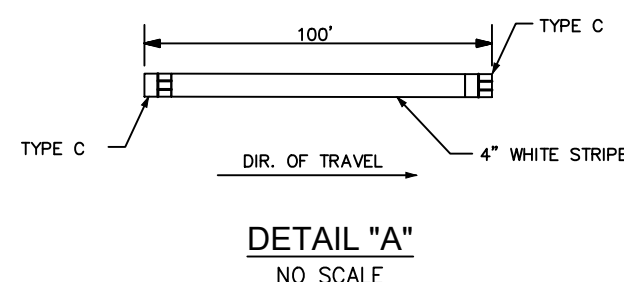
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LEGEND

- ⑤ SIGNALIZED INTERSECTION
----- PAVING LIMITS

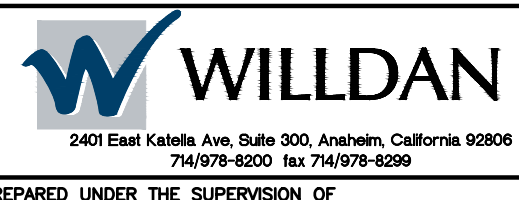


USANORTH11.ORG



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: BB	DESIGNED BY: BB
CHECKED BY: JL	DATE: 12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607

APPROVED

JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
SIGNING AND STRIPING PLAN
AVENUE 12
STATION 503+00 TO STATION 518+47

SHEET

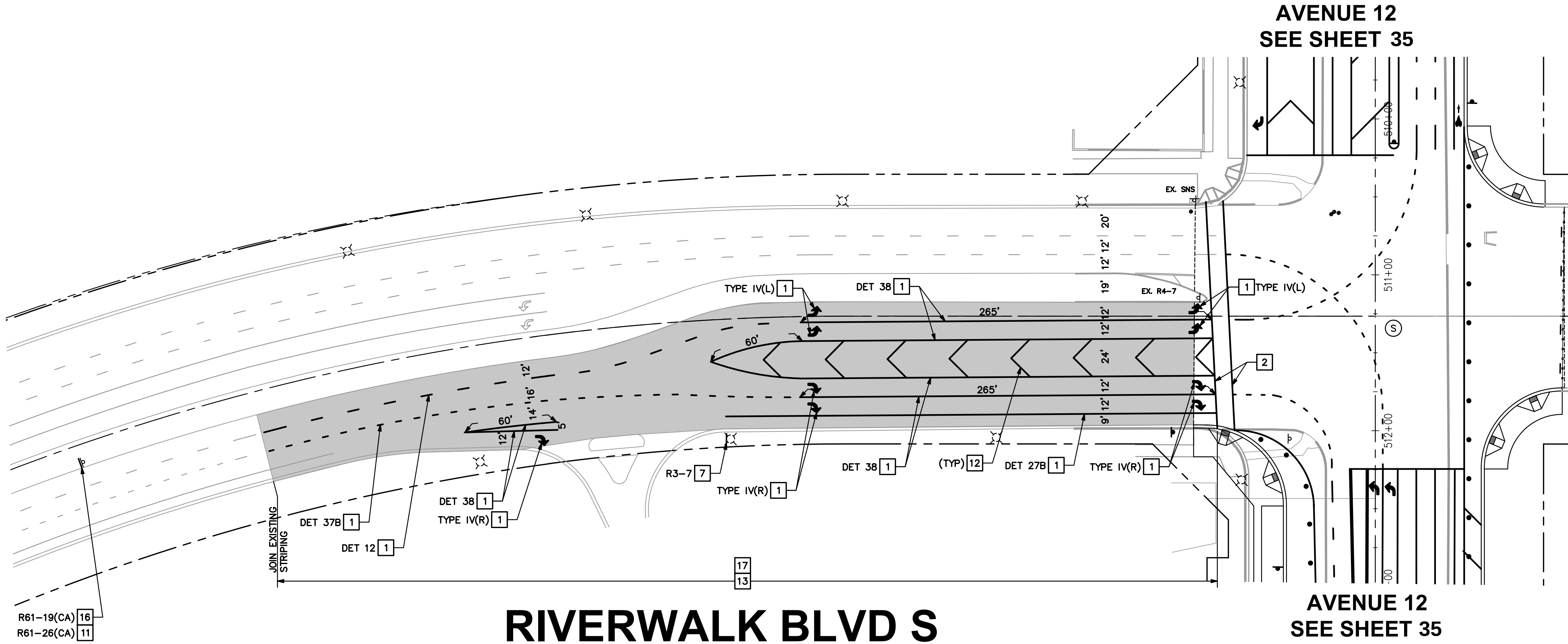
35 OF 49

DWG. NO.
SS-5

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-153x-101-Plans\PL-STRIP-06.dwg Dec 16, 2024 - 5:59pm

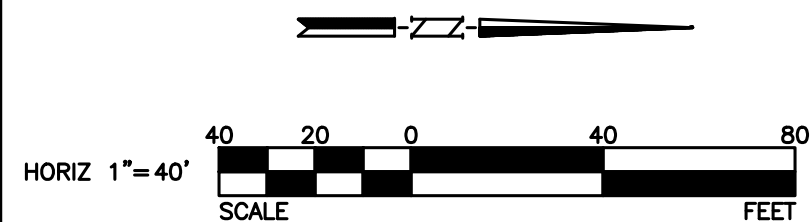


SIGNING AND STRIPING GENERAL NOTES:

1. TRAFFIC SIGNING, STRIPING, AND THE INSTALLATION THEREOF SHALL CONFORM TO CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITIONS, THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), DATED 2014, REVISION 8, THESE PLANS AND THE SPECIAL PROVISIONS.
2. ALL STRIPING DETAILS, PAVEMENT MARKINGS AND CROSSWALKS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED. BIKE LEGENDS AND GREEN PAINT IN DETAIL "C" SHALL BE PAINT, 2 COATS.
3. THE CONTRACTOR SHALL REMOVE BY GRINDING ALL EXISTING STRIPING AND PAVEMENT LEGENDS PRIOR TO SLURRY SEAL APPLICATION. STRIPING REMOVALS SHALL INCLUDE REMOVING RAISED PAVEMENT MARKERS. GRIND AREAS FOR PAVEMENT LEGENDS AND ARROWS SHALL BE RECTANGULAR. ALL STRIPING AND MARKING REMOVAL AREAS SHALL BE TREATED WITH AN APPROVED PAVEMENT SEALER (SEAL MASTER-MASTERSEAL). ALL GRIND AREAS SHALL BE FOG SEALED.
4. LANE WIDTHS SHOWN ON THE PLAN ARE DIMENSIONED FROM FACE OF CURB, OR EDGE OF PAVEMENT IF NO CURB, TO CENTER OF STRIPE, OR BETWEEN CENTERS OF STRIPES.
5. ALL STRIPING DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES, WITHIN OR ADJACENT TO PROJECT LIMITS, SHALL BE RESTORED TO "LIKE NEW" CONDITION.
6. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED AND REPLACED WITH NEW. REMOVAL OF EXISTING RAISED PAVEMENT MARKINGS SHALL BE SUCH THAT THERE IS NO DAMAGE TO THE EXISTING ROADWAY SURFACE. ANY ROADWAY SURFACE DAMAGE THAT DOES OCCUR SHALL BE REPLACED IN KIND AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. INSTALL TWO-WAY BLUE REFLECTIVE MARKERS AT EVERY FIRE HYDRANT PER ROOT CREEK WATER DISTRICT STD. DETAIL W-15.
8. ALL SIGNS SHALL BE OF "DIAMOND GRADE" MATERIAL OR APPROVED EQUAL.
9. STOP SIGNS (R1-1) AND STOP LEGENDS SHALL NOT BE REMOVED UNTIL TRAFFIC SIGNAL IS TURNED ON AND OPERATIONAL.
10. STRIPING DETAILS AND WIDTHS OF STRIPES SHALL CONFORM TO THE 2015 CALTRANS STANDARD PLANS.

SIGNING AND STRIPING CONSTRUCTION NOTES:

- 1 INSTALL STRIPING DETAIL AND/OR PAVEMENT MARKING AS SHOWN.
- 2 INSTALL 12" WHITE CROSSWALK. CROSSWALK SHALL BE 10' IN WIDTH (INSIDE TO INSIDE) UNLESS OTHERWISE INDICATED.
- 3 INSTALL 12" WHITE LIMIT LINE.
- 4 INSTALL 12" WHITE DIAGONALS AT 45° AT 50' SPACING O.C., UNLESS OTHERWISE NOTED.
- 5 PAINT BIKE LANE SYMBOL PAVEMENT LEGEND AND BIKE LANE ARROW.
- 6 REMOVE SIGN(S) AND POST AS NOTED.
- 7 INSTALL SIGN(S) AND POST AS NOTED.
- 8 INSTALL TYPE L-1 OBJECT MARKER AT 100' SPACING O.C. MARKERS SHALL BE PLACED 3' FROM EDGE OF PAVEMENT.
- 9 RELOCATE SIGN(S) TO NEW POST AS NOTED.
- 10 INSTALL RAISED MEDIAN NOSE TREATMENT PER DETAIL "B".
- 11 INSTALL SIGN(S) AS NOTED.
- 12 INSTALL 12" WHITE CHEVRONS AT 50' SPACING O.C., UNLESS OTHERWISE NOTED.
- 13 REMOVE CONFLICTING STRIPING INCLUDING RAISED PAVEMENT MARKERS.
- 14 INSTALL TYPE Q(CA) SURFACE MOUNTED CHANNELIZERS WITH WHITE REFLECTIVE BANDS, 25' SPACING O.C., UNLESS OTHERWISE NOTED.
- 15 RELOCATE SIGN(S) AND POST AS NOTED.
- 16 REMOVE SIGN(S) AS NOTED.
- 17 CONSTRUCT TYPE 2 SLURRY SEAL.

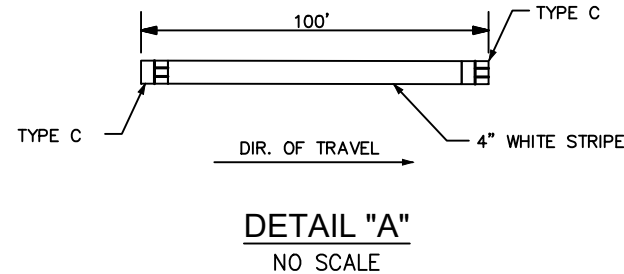


LEGEND

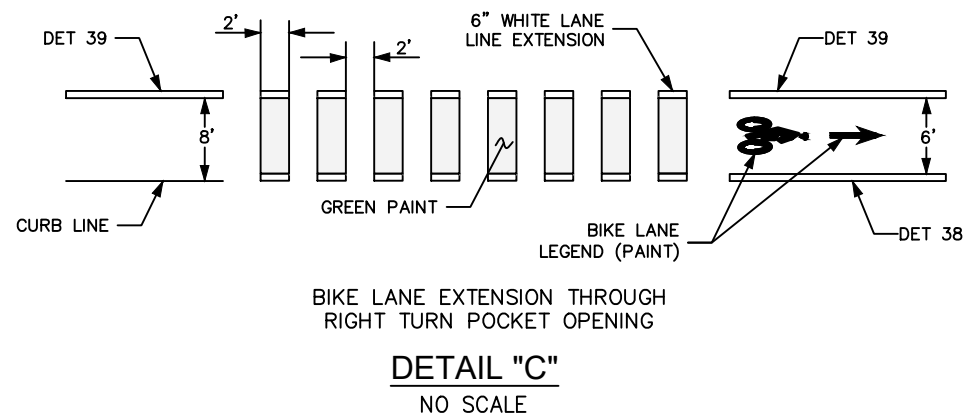
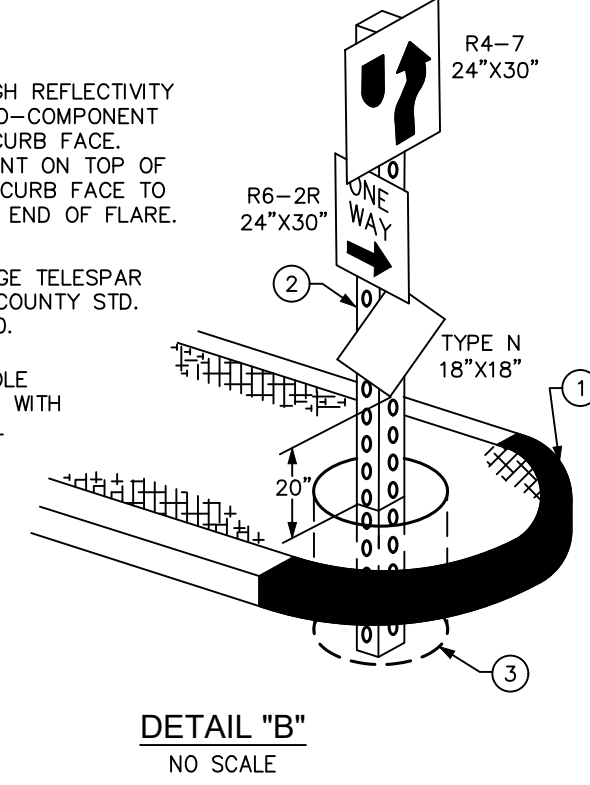
⑤ SIGNALIZED INTERSECTION

----- PAVING LIMITS

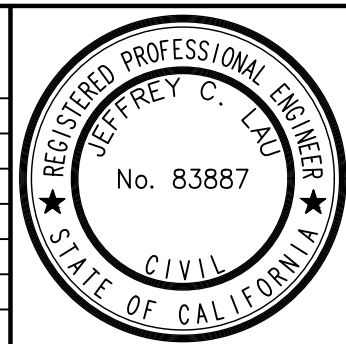
TYPE 2 SLURRY SEAL



- NOTES:**
- 1 INSTALL HIGH REFLECTIVITY YELLOW TWO-COMPONENT PAINT ON CURB FACE. EXTEND PAINT ON TOP OF CURB AND CURB FACE TO BC, EC, OR END OF FLARE.
 - 2 2" 12-GAUGE TELESAR POST PER COUNTY STD. DWG. ST-30.
 - 3 12" DIA. HOLE COMPACTED WITH NATIVE SOIL.



REVISIONS				
NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



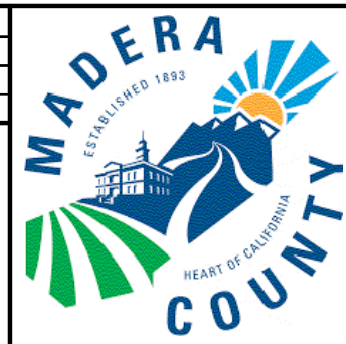
WILLDAN *extending your reach*

2401 East Kalinda Ave, Suite 300, Anaheim, California 92806
714/978-6200 fax 714/978-6299

PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE

SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: BB	12/16/24
DESIGNED BY: BB	12/16/24
CHECKED BY: JL	12/16/24



COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT SIGNING AND STRIPING PLAN RIVERWALK BLVD S AVENUE 12 TO 620' SOUTH	36 OF 49
DWG. NO. SS-6	

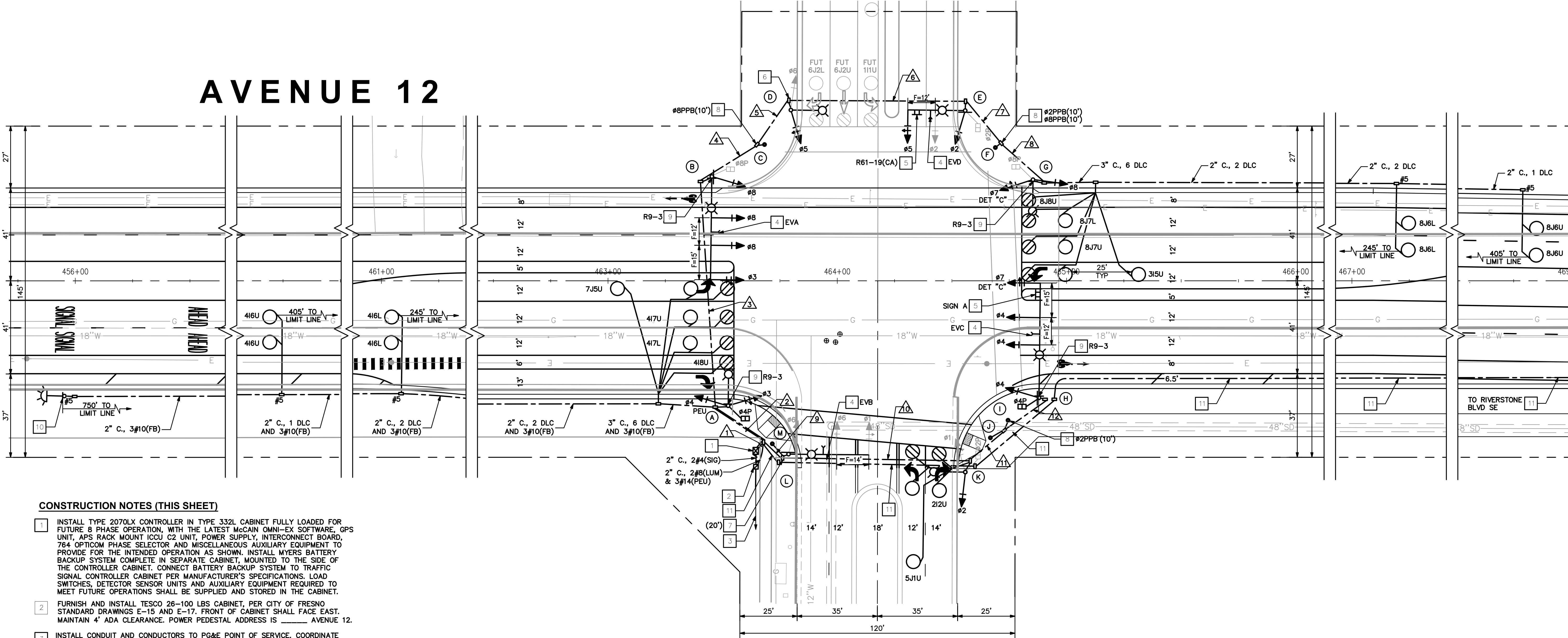
90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\13051 - Madera Co Avenue 12 PH2 800-153&E\001-Plans\PL-SIGNAL-01.dwg Dec 16, 2024 - 6:00pm

AVENUE 12

RIVERSTONE BLVD NW
(FUTURE)



RIVERSTONE BLVD SW

CONSTRUCTION NOTES (THIS SHEET)

1. INSTALL TYPE 2070LX CONTROLLER IN TYPE 332L CABINET FULLY LOADED FOR FUTURE 8 PHASE OPERATION, WITH THE LATEST MCCAIN OMNI-EX SOFTWARE, GPS UNIT, APS RACK MOUNT ICCU C2 UNIT, POWER SUPPLY, INTERCONNECT BOARD, 764 OPTICOM PHASE SELECTOR AND MISCELLANEOUS AUXILIARY EQUIPMENT TO PROVIDE FOR THE INTENDED OPERATION AS SHOWN. INSTALL MYERS BATTERY BACKUP SYSTEM COMPLETE IN SEPARATE CABINET, MOUNTED TO THE SIDE OF THE CONTROLLER CABINET. CONNECT BATTERY BACKUP SYSTEM TO TRAFFIC SIGNAL CONTROLLER CABINET PER MANUFACTURER'S SPECIFICATIONS. LOAD SWITCHES, DETECTOR SENSOR UNITS AND AUXILIARY EQUIPMENT REQUIRED TO MEET FUTURE OPERATIONS SHALL BE SUPPLIED AND STORED IN THE CABINET.
2. FURNISH AND INSTALL TESCO 26-100 LBS CABINET, PER CITY OF FRESNO STANDARD DRAWINGS E-15 AND E-17. FRONT OF CABINET SHALL FACE EAST. MAINTAIN 4' ADA CLEARANCE. POWER PEDESTAL ADDRESS IS _____ AVENUE 12.
3. INSTALL CONDUIT AND CONDUCTORS TO PG&E POINT OF SERVICE. COORDINATE WITH PG&E RULE 16.
4. INSTALL SINGLE DIRECTIONAL EMERGENCY VEHICLE PREEMPTION (EVP).
5. INSTALL SIGN ON SIGNAL MAST ARM AS NOTED.
6. COIL 10' OF EACH DLC IN PULL BOX FOR FUTURE #1 AND #6 LOOP DETECTORS.
7. COIL 12 CSC, LENGTH AS NOTED, IN PULL BOX TO REACH TERMINAL BLOCK ON POLE (X) FOR FUTURE CONNECTIONS.
8. COIL 3 CSC, LENGTH AS NOTED, IN PULL BOX FOR FUTURE PUSH BUTTON ASSEMBLY.
9. INSTALL SIGN ON SIGNAL POLE AS NOTED.
10. INSTALL RELOCATED FLASHING BEACON (RRFB) COMPLETE WITH 12" YELLOW INDICATIONS COMPLETE FROM RIVERWALK BLVD. INSTALL ON TYPE 1-B POLE FOUNDATION, ADJUST ANCHOR BOLTS TO FIT EXISTING BASE PLATE.
11. INSTALL 2" PVC SCHEDULE 80 INTERCONNECT CONDUIT WITH PULL ROPE. BETWEEN INTERSECTIONS, INSTALL #5 PULL BOXES AT 500' MAX SPACING.

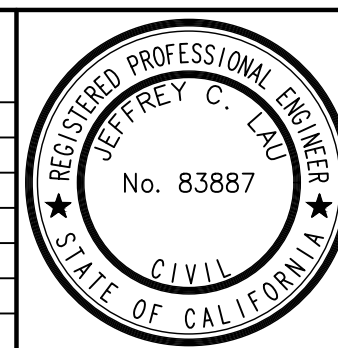
SEE SHEET TS-2 FOR GENERAL NOTES AND SCHEDULES

USANORTH11.ORG



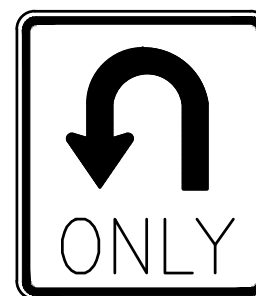
REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



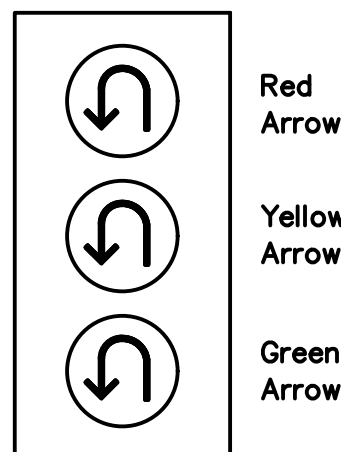
PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE



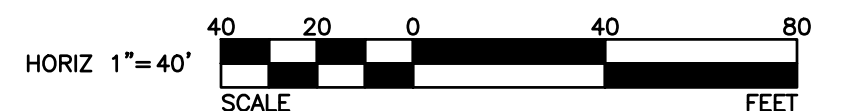
SIGN A
(30'W x 36'H)

DETAIL "C"
(No Scale)



LEGEND

- OPTICOM EMERGENCY VEHICLE PREEMPTION (EVP)
- PROPOSED TYPE F BICYCLE LOOP
- FUTURE TRAFFIC SIGNAL EQUIPMENT/LOOPS



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

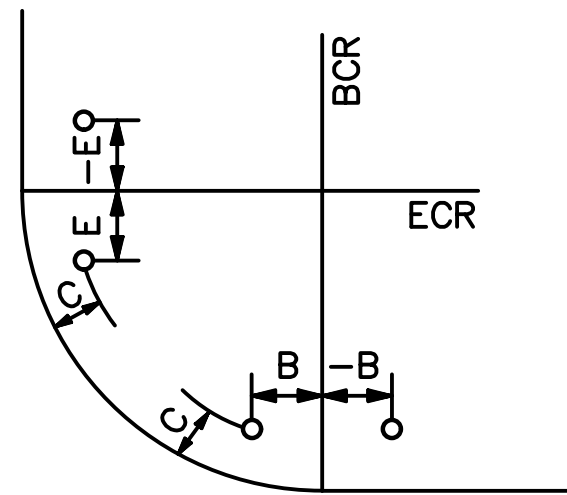
JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA AVENUE 12 WIDENING PROJECT TRAFFIC SIGNAL MODIFICATION PLAN AVENUE 12 AT RIVERSTONE BLVD SW	SHEET 37 OF 49 DWG. NO. TS-1
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90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

POLE SCHEDULE ■															
No.	STANDARD			LUMINAIRE LED	VEHICLE SIGNAL MOUNTING		PED SIGNAL	APS PPB			R.R.S.N.S. (POLE MOUNT)	POLE LOCATION (SEE DETAIL "A")			REMARKS
	TYPE	LUM. M.A.	SIG. M.A.		MAST ARM	POLE		MTG.	Ø	QUAD		ARROW	E	B	
(A)	15TS	15'	—	165	—	SV-2-TA	SP-1-T	—	—	—	—	—	0'	3'	PEU
(B)	26-4-100	15'	45'	165	MAS, MAS, MAS	SV-1-T	—	—	—	—	Riverstone BI SW	SEE DETAIL "B"	F=15', F=12'		
(C)	PED POST	—	—	—	—	—	—	—	—	—	—	SEE DETAIL "B"			
(D)	15TS	12'	—	165	—	SV-1-T	—	—	—	—	—	SEE DETAIL "B"			
(E)	19-3-100	12'	25'	165	MAS, MAS*	SV-1-T	—	—	—	—	Avenue 12	SEE DETAIL "B"	F=12'		
(F)	PED POST	—	—	—	—	—	—	—	—	—	—	SEE DETAIL "B"			
(G)	15TS	15'	—	165	—	SV-2-TA	—	—	—	—	—	SEE DETAIL "B"			
(H)	29-5-100	15'	50'	165	MAS, MAS, MAS	SV-1-T	SP-1-T	—	—	—	Riverstone BI SW	-4.5'	—	4'	F=15', F=12'
(I)	PED POST	—	—	—	—	—	—	—	—	—	—	13.5'	—	10'	
(J)	PED POST	—	—	—	—	—	—	4	S	LT	—	—	13.5'	10'	
(K)	15TS	12'	—	165	—	SV-1-T	—	—	—	—	—	—	2.5'	3'	
(L)	24-3-100	12'	35'	165	MAS*, MAS*	—	—	—	—	—	Avenue 12	6'	—	3'	F=14'
(M)	PED POST	—	—	—	—	—	—	4	N	LT	—	10.5'	—	8'	

NOTE: ENGINEERING CALCULATIONS PERFORMED ON POLE (B), WILL ALLOW FOR AN ADDITIONAL VEHICLE HEAD IN LIEU OF THE IISNS ON THE SIGNAL MAST ARM.



POLE	STREET (CL)	STATION
(B)	AVENUE 12	463+45, 46' L
(C)	AVENUE 12	463+68, 59' L
(D)	AVENUE 12	463+79, 74' L
(E)	AVENUE 12	464+56, 74' L
(F)	AVENUE 12	464+70, 58' L
(G)	AVENUE 12	464+85, 44' L

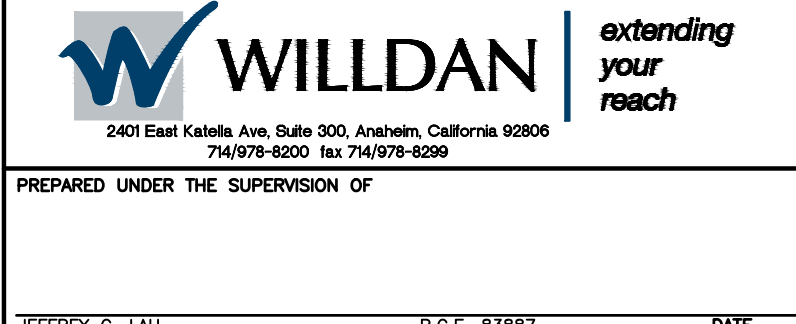
POLE LOCATION – STATIONS AND OFFSETS

[illegible]

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811

What's below.
Call before you dig.

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SCALE:	AS SHOWN	DATE
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DESIGNED BY	BB	12/16/24
CHECKED BY	JL	12/16/24



COUNTY OF MADERA DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	
APPROVED	DATE
JARED CARTER SENIOR DIRECTOR OF PUBLIC WORKS	

AVENUE 12 WIDENING PROJECT
TRAFFIC SIGNAL MODIFICATION PLAN
AVENUE 12 AT RIVERSTONE BLVD SW

37 OF 49

DWG. NO.
TS-2

1. TRAFFIC SIGNAL AND HIGHWAY LIGHTING EQUIPMENT, AND INSTALLATION THEREOF SHALL CONFORM TO CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. VEHICLE INDICATIONS SHALL BE 12" LIGHT EMITTING DIODE (LED) RED LED YELLOW, AND LED GREEN PER THE SPECIAL PROVISIONS. BACKPLATES SHALL INCLUDE 2" YELLOW REFLECTIVE BORDER.
4. CONDUIT SHALL BE MIN. 2" SCHEDULE 80 PVC AND PULL BOXES SHALL BE #5, UNLESS SHOWN OTHERWISE.
5. ALL CONDUIT AND PULL BOXES NOT SHOWN FOR REUSE SHALL BE ABANDONED.
6. CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
7. PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN PEDESTRIAN HEADS, UNLESS OTHERWISE NOTED ON THE POLE SCHEDULE. SEE SPECIAL PROVISIONS.
8. PEDESTRIAN PUSH BUTTONS SHALL BE APS TYPE WITH RAISED DIRECTIONAL ARROW PUSH BUTTONS AND R10-3b SIGNS. PUSH BUTTONS INSTALLED ON A PED POST SHALL BE INCLUDE A 6" STRAIGHT ARM MOUNTING EXTENDER.
9. INDUCTIVE DETECTOR LOOPS SHALL BE 6' DIAMETER TYPE "E" AND CENTERED IN TRAVEL LANE. LIMIT LINE LOOPS SHALL BE TYPE "F" BICYCLE DETECTOR LOOPS PER CALTRANS STANDARDS. PLACE LIMIT LINE LOOPS AT THE BACK OF CROSSWALK OR LIMIT LINE.
10. ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION. ALL SIGNAL CABLES IN PULL BOXES SHALL BE MARKED AS TO WHICH POLE No. THEY TERMINATE.

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION.
12. LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POthOLE TO DETERMINE THE EXACT LOCATION AND VERIFY ALL CONDITIONS ON THE JOBSITE PRIOR TO ORDERING POLES.
13. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGING EXISTING UTILITIES BY LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTION. COORDINATE POLE INSTALLATION WITH OVERHEAD UTILITY AND SUBSTRUCTURE OWNERS. CONTACT UNDERGROUND SERVICE ALERT AT (800) 422-4133, 48 HOURS PRIOR TO CONSTRUCTION.
14. ANY MODIFICATION OF OR CHANGES TO APPROVED PLANS MUST BE APPROVED BY THE CITY ENGINEER.
15. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY EQUIPMENT NECESSARY TO MAINTAIN CURRENT SIGNAL OPERATION, INCLUDING BUT NOT LIMITED TO CONTROLLER ASSEMBLIES AND SIGNAL POLES.
16. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT DURING INSTALLATION OF CONCRETE FOUNDATIONS ON ANY EXISTING NEARBY CABINETS, POLES, OR STANDARDS.
17. ALL FOUNDATIONS FROM WHICH POLES OR POSTS ARE REMOVED SHALL BE COMPLETELY REMOVED.
18. EXISTING HIGH VOLTAGE OVERHEAD UTILITY LINES EXIST WITHIN THIS PROJECT AREA. A HIGH VOLTAGE CONTRACTOR MAY BE REQUIRED FOR THE REMOVAL AND INSTALLATION OF TRAFFIC SIGNAL POLES. ANY ADDITIONAL COSTS FOR SUCH WORK SHALL BE INCURRED BY THE CONTRACTOR.

PHASE DIAGRAM				
	GROUP A		GROUP B	
RING 1	NOT USED			
	$\phi 1$	$\phi 2$	$\phi 3$	$\phi 4$
RING 2		NOT USED		
	$\phi 5$	$\phi 6$	$\phi 7$	$\phi 8$

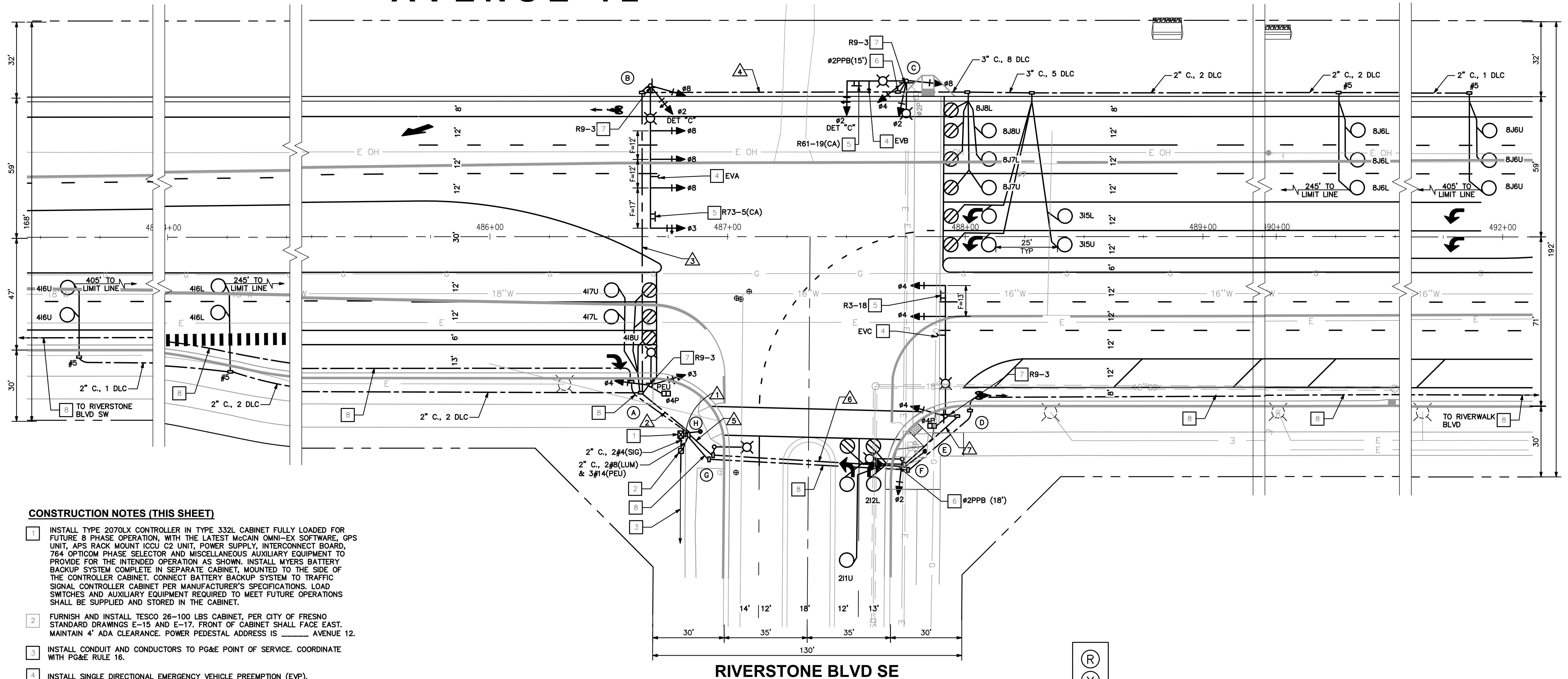
Ø2 AND Ø5 TO RUN CONCURRENT

EVA = Ø3 + Ø8
 EVB = INACTIVE
 EVC = Ø4 + Ø7
 EVD = Ø2 + Ø5

FUTURE PHASE DIAGRAM				
	GROUP A		GROUP B	
RING 1				
	ø1	ø2	ø3	ø4
RING 2				
	ø5	ø6	ø7	ø8

$$\begin{aligned} \text{EVA} &= \emptyset 3 + \emptyset 8 \\ \text{EVB} &= \emptyset 1 + \emptyset 6 \\ \text{EVC} &= \emptyset 4 + \emptyset 7 \\ \text{EVD} &= \emptyset 2 + \emptyset 5 \end{aligned}$$

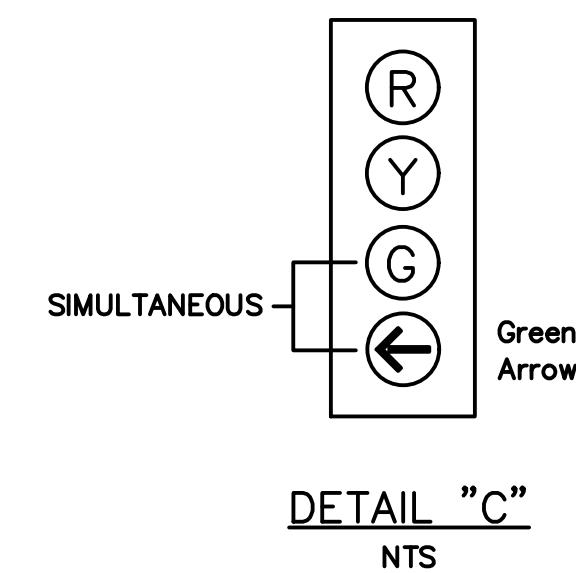
AVENUE 12



CONSTRUCTION NOTES (THIS SHEET)

1. INSTALL TYPE 2070XLX CONTROLLER IN TYPE 332L CABINET FULLY LOADED FOR FUTURE 8 PHASE OPERATION, WITH THE LATEST MCCAIN OMNI-EX SOFTWARE, GPS UNIT, APS RACK MOUNT ICCU C2 UNIT, POWER SUPPLY, INTERCONNECT BOARD, 764 OPTICOM PHASE SELECTOR AND MISCELLANEOUS AUXILIARY EQUIPMENT TO PROVIDE FOR THE INTENDED OPERATION AS SHOWN. INSTALL MYERS BATTERY BACKUP SYSTEM COMPLETE IN SEPARATE CABINET, MOUNTED TO THE SIDE OF THE CONTROLLER CABINET. CONNECT BATTERY BACKUP SYSTEM TO TRAFFIC SIGNAL CONTROLLER CABINET PER MANUFACTURER'S SPECIFICATIONS. LOAD SWITCHES AND AUXILIARY EQUIPMENT REQUIRED TO MEET FUTURE OPERATIONS SHALL BE SUPPLIED AND STORED IN THE CABINET.
2. FURNISH AND INSTALL TESCO 26-100 LBS CABINET, PER CITY OF FRESNO STANDARD DRAWINGS E-15 AND E-17. FRONT OF CABINET SHALL FACE EAST. MAINTAIN 4' ADA CLEARANCE. POWER PEDESTAL ADDRESS IS _____ AVENUE 12.
3. INSTALL CONDUIT AND CONDUCTORS TO PG&E POINT OF SERVICE. COORDINATE WITH PG&E RULE 16.
4. INSTALL SINGLE DIRECTIONAL EMERGENCY VEHICLE PREEMPTION (EVV).
5. INSTALL SIGN ON SIGNAL MAST ARM AS NOTED.
6. COIL 3 CSC, LENGTH AS NOTED, IN PULL BOX FOR FUTURE PUSH BUTTON ASSEMBLY.
7. INSTALL SIGN ON SIGNAL POLE AS NOTED.
8. INSTALL 2" PVC SCHEDULE 80 INTERCONNECT CONDUIT WITH PULL ROPE. BETWEEN INTERSECTIONS, INSTALL #5 PULL BOXES AT 500' MAX SPACING.

RIVERSTONE BLVD SE



LEGEND

-  - OPTICOM EMERGENCY VEHICLE PREEMPTION (EVP)
-  - PROPOSED TYPE F BICYCLE LOOP
-  - FUTURE TRAFFIC SIGNAL EQUIPMENT/LOOPS

SEE SHEET TS-4 FOR GENERAL NOTES AND SCHEDULES

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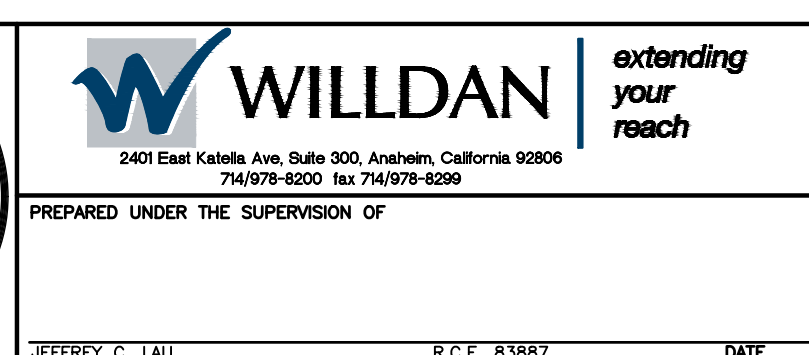
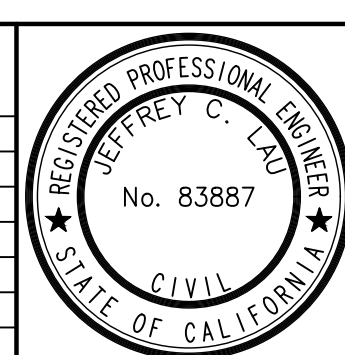


Know what's below.

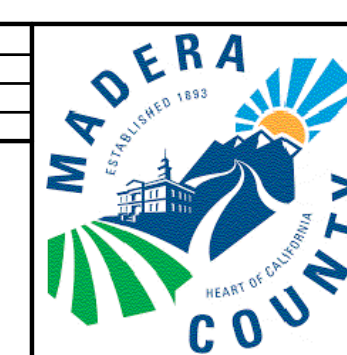
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REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



SCALE:	AS SHOWN	DATE:
DRAWN BY	BB	12/16/24
DESIGNED BY	BB	12/16/24
CHECKED BY	JL	12/16/24



COUNTY OF MADERA DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	
APPROVED _____	
JARED CARTER PUBLIC DIRECTOR OF PUBLIC WORKS	DATE _____

	COUNTY OF MADERA
	AVENUE 12 WIDENING PROJECT
	TRAFFIC SIGNAL MODIFICATION PLAN
	AVENUE 12 AT RIVERSTONE BLVD SE

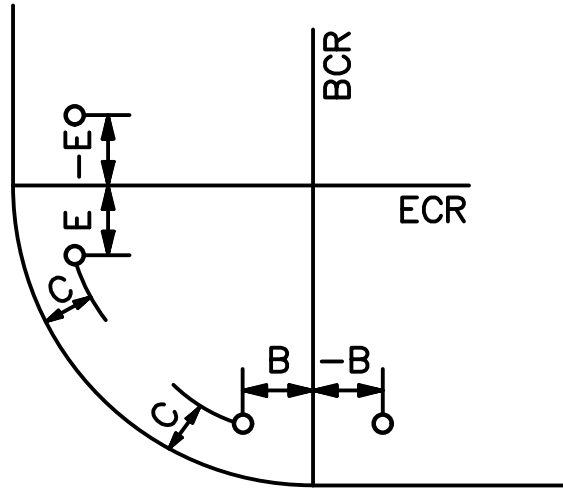
SHEET
39 OF 49
DWG. NO.
TS-3

Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-153&E\901-Plans\PL-SIGNAL-02.dwg Dec 16, 2024 - 6:02pm

POLE SCHEDULE ■															
No.	STANDARD			LUMINAIRE LED	VEHICLE SIGNAL MOUNTING		PED SIGNAL	APS PPB			R.R.S.N.S. (POLE MOUNT)	POLE LOCATION (SEE DETAIL "A")			REMARKS
	TYPE	LUM. M.A.	SIG. M.A.		MAST ARM	POLE	MTG.	ø	QUAD	ARROW		E	B	C	
(A)	15TS	15'	—	165	—	SV-2-TA	SP-1-T	—	—	—	—	—	-1'	3	PEU
(B)	61-5-100	15'	60'	165	MAS, MAS, MAS, MAS	SV-2-TA	—	—	—	—	Riverstone Bl SE	SEE DETAIL	"B"		F=17', F=12', F=12'
(C)	19-3-100	15**	30'	165	MAS-4B	SV-3-TA	—	—	—	—	Avenue 12	SEE DETAIL	"B"		
(D)	29-5-100	15'	55'	165	MAS, MAS	SV-1-T	SP-1-T	—	—	—	Riverstone Bl SE	7.5'	—	3'	F=13'
(E)	PED POST	—	—	—	—	—	—	4	N	RT	—	—	11'	11'	
(F)	15TS	12'	—	165	—	SV-1-T	—	—	—	—	—	—	8'	3'	
(G)	15TS	12'	—	165	—	—	—	—	—	—	—	.5'	—	4'	F=12'
(H)	PED POST	—	—	—	—	—	—	4	N	LT	—	7'	—	8.5'	

■ ALL EQUIPMENT IS NEW
* - FUTURE MAST ARM SIGNAL INDICATION, ADD TENON AND CAP.
** - ROTATE LUMINAIRE ARM 90'.
NOTE: ENGINEERING CALCULATIONS PERFORMED ON POLE (B), WILL ALLOW FOR AN ADDITIONAL VEHICLE HEAD IN LIEU OF THE IISNS ON THE SIGNAL MAST ARM.



POLE	STREET (CL)	STATION
(B)	AVENUE 12	486+67, 63.5' L
(C)	AVENUE 12	487+75, 65.5' L

DETAIL "B"
POLE LOCATION - STATIONS AND OFFSETS

TRAFFIC SIGNAL GENERAL NOTES

- TRAFFIC SIGNAL AND HIGHWAY LIGHTING EQUIPMENT, AND INSTALLATION THEREOF SHALL CONFORM TO CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CALTRANS STANDARD PLANS AND SPECIFICATIONS, LATEST EDITIONS, THESE PLANS, AND THE SPECIAL PROVISIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- VEHICLE INDICATIONS SHALL BE 12" LIGHT EMITTING DIODE (LED) RED, LED YELLOW, AND LED GREEN PER THE SPECIAL PROVISIONS. BACKPLATES SHALL INCLUDE 2" YELLOW REFLECTIVE BORDER.
- CONDUIT SHALL BE MIN. 2" SCHEDULE 80 PVC AND PULL BOXES SHALL BE #5, UNLESS SHOWN OTHERWISE.
- ALL CONDUIT AND PULL BOXES NOT SHOWN FOR REUSE SHALL BE ABANDONED.
- CONDUCTOR SCHEDULE IS PROVIDED AS AN INSTALLATION GUIDE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- PEDESTRIAN INDICATIONS SHALL BE LED COUNTDOWN PEDESTRIAN HEADS, UNLESS OTHERWISE NOTED ON THE POLE SCHEDULE. SEE SPECIAL PROVISIONS.
- PEDESTRIAN PUSH BUTTONS SHALL BE APS TYPE WITH RAISED DIRECTIONAL ARROW PUSH BUTTONS AND R10-3b SIGNS. PUSH BUTTONS INSTALLED ON A PED POST SHALL BE INCLUDE A 6" STRAIGHT ARM MOUNTING EXTENDER.
- INDUCTIVE DETECTOR LOOPS SHALL BE 6' DIAMETER TYPE "E" AND CENTERED IN TRAVEL LANE. LIMIT LINE LOOPS SHALL BE TYPE "F" BICYCLE DETECTOR LOOPS PER CALTRANS STANDARDS. PLACE LIMIT LINE LOOPS AT THE BACK OF CROSSWALK OR LIMIT LINE.
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- LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POT HOLE TO DETERMINE THE EXACT LOCATION AND VERIFY ALL CONDITIONS ON THE JOBSITE PRIOR TO ORDERING POLES.
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- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT DURING INSTALLATION OF CONCRETE FOUNDATIONS ON ANY EXISTING NEARBY CABINETS, POLES, OR STANDARDS.
- ALL FOUNDATIONS FROM WHICH POLES OR POSTS ARE REMOVED SHALL BE COMPLETELY REMOVED.
- EXISTING HIGH VOLTAGE OVERHEAD UTILITY LINES EXIST WITHIN THIS PROJECT AREA. A HIGH VOLTAGE CONTRACTOR MAY BE REQUIRED FOR THE REMOVAL AND INSTALLATION OF TRAFFIC SIGNAL POLES. ANY ADDITIONAL COSTS FOR SUCH WORK SHALL BE INCURRED BY THE CONTRACTOR.

CONDUCTOR SCHEDULE ▲									
AWG	CIRCUIT	RUN							
		1	2	3	4	5	6	7	
12 CONDUCTOR CABLE	POLE (A)	1	1	—	—	—	—	—	—
	POLE (B)	1	1	1	—	—	—	—	—
	POLE (C)	1	1	1	1	1	—	—	—
	POLE (D)	1	—	—	—	1	1	1	—
3 CONDUCTOR CABLE	POLE (E)	—	2	—	—	—	2	2	—
	POLE (F)	1	—	—	—	—	1	1	—
	POLE (G)	1	—	—	—	1	—	—	—
	POLE (H)	—	1	—	—	—	1	—	—
	TOTAL	6	4	3	1	2	1	1	3
#14	PEU	—	2	—	—	—	—	—	—
#8	LUMINAIRE	—	2	2	2	2	2	2	2
TYPE B DLC	∅2 DETECTOR	2	—	—	—	2	2	—	—
	∅3 DETECTOR	2	2	2	2	—	—	—	—
	∅4 DETECTOR	5	5	—	—	—	—	—	—
	∅8 DETECTOR	6	6	6	6	—	—	—	—
	TOTAL DLC	15	13	8	8	2	2	—	—
EVP CABLE		3	2	2	1	1	1	1	—
PULL ROPE (FUT SIC)		2	—	—	—	—	—	—	—
CONDUIT SIZE		2-4"	4"	4"	4"	4"	4"	4"	—
% FILL		17	20	14	10	15	11	5	—
E=EXISTING, N=NEW		N	N	N	N	N	N	N	—

▲ ALL CONDUCTORS ARE NEW
INTERSECTION SHALL BE WIRED PER FUTURE PHASE DIAGRAM

PHASE DIAGRAM				
	GROUP A		GROUP B	
RING 1	NOT USED	↑	↻	→
	∅1	∅2	∅3	∅4
RING 2	NOT USED	NOT USED	NOT USED	←
	∅5	∅6	∅7	∅8

EMERGENCY
VEHICLE PREEMPTION

EVA = ∅3 + ∅8
EVB = ∅2
EVC = ∅4

FUTURE PHASE DIAGRAM				
	GROUP A		GROUP B	
RING 1	NOT USED	↑	↻	→
	∅1	∅2	∅3	∅4
RING 2	NOT USED	NOT USED	NOT USED	←
	∅5	∅6	∅7	∅8

EMERGENCY
VEHICLE PREEMPTION

EVA = ∅3 + ∅8
EVB = ∅2
EVC = ∅4

USANORTH11.ORG



REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE

SCALE:	AS SHOWN	DATE
DRAWN BY:	SB	12/16/24
DESIGNED BY:	SB	12/16/24
CHECKED BY:	JL	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607

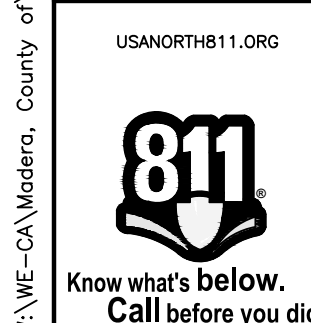
APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

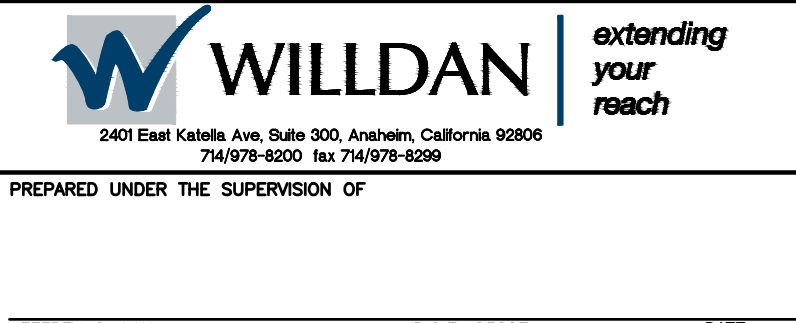
COUNTY OF MADERA		SHEET
AVENUE 12 WIDENING PROJECT TRAFFIC SIGNAL MODIFICATION PLAN AVENUE 12 AT RIVERSTONE BLVD SE		39 OF 49
		DWG. NO. TS-4

Plotted By: Camryn Lopez

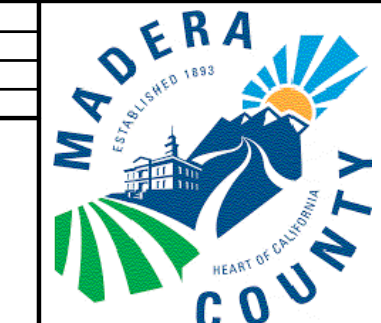
\\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2\900-PS&E\901-Plans\PL-SIGNAL-03.dwg Dec 16, 2024 - 6:02pm



- 1 EXISTING TYPE 2070XL CONTROLLER IN TYPE 332L CABINET WITH OMNI-EX SOFTWARE, 764 OPTICOM, AND MYERS BATTERY BACKUP SYSTEM TO REMAIN. INSTALL 6 ADDITIONAL LOAD SWITCHES, 6 1LD 2-CHANNEL SENSOR UNITS, GPS UNIT, APS RACK MOUNT ICCU C2 UNIT, POWER SUPPLY, INTERCONNECT BOARD AND MISCELLANEOUS AUXILIARY EQUIPMENT TO PROVIDE FOR THE INTENDED OPERATION AS SHOWN. LOAD SWITCHES, DETECTOR SENSOR UNITS AND AUXILIARY EQUIPMENT REQUIRED TO MEET FUTURE OPERATIONS SHALL BE SUPPLIED AND STORED IN THE CABINET.
- 2 EXISTING TESCO 26-100 LBS CABINET TO REMAIN.
- 3 REMOVE SIGNAL POLE AND FOUNDATION COMPLETE.
- 4 INSTALL SINGLE DIRECTIONAL EMERGENCY VEHICLE PREEMPTION (EVP).
- 5 INSTALL SIGN ON SIGNAL MAST ARM AS NOTED.
- 6 COIL 10' OF DLC IN PULL BOX FOR FUTURE LOOP DETECTORS.
- 7 COIL 12 CSC, LENGTH AS NOTED, IN PULL BOX TO REACH TERMINAL BLOCK ON POLE Ⓞ FOR FUTURE CONNECTIONS.
- 8 COIL 3 CSC, LENGTH AS NOTED, IN PULL BOX FOR FUTURE PUSH BUTTON ASSEMBLY.
- 9 INSTALL SIGN ON SIGNAL POLE AS NOTED.
- 10 INSTALL 2" PVC SCHEDULE 80 INTERCONNECT CONDUIT WITH PULL ROPE. BETWEEN INTERSECTIONS, INSTALL #5 PULL BOXES AT 500' MAX SPACING.
- 11 RELOCATE EXISTING FLASHING BEACON POLE AND EQUIPMENT COMPLETE TO RIVERSTONE BLVD SW, SEE SHEET TS-1. REMOVE FOUNDATION COMPLETE.

[illegible]

SCALE:	AS SHOWN	DATE
DRAWN BY	BB	12/16/24
DESIGNED BY	BB	12/16/24
CHECKED BY	JL	12/16/24



COUNTY OF MADERA	
DEPARTMENT OF PUBLIC WORKS 300 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	
APPROVED _____	
JARED CARTER	DATE _____

HORIZ 1" = 40'

40 20 0 40 80
SCALE FEET

COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT	41 OF 49
TRAFFIC SIGNAL MODIFICATION PLAN	DWG. NO.
AVENUE 12 AT RIVERWALK BLVD	TS-5

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

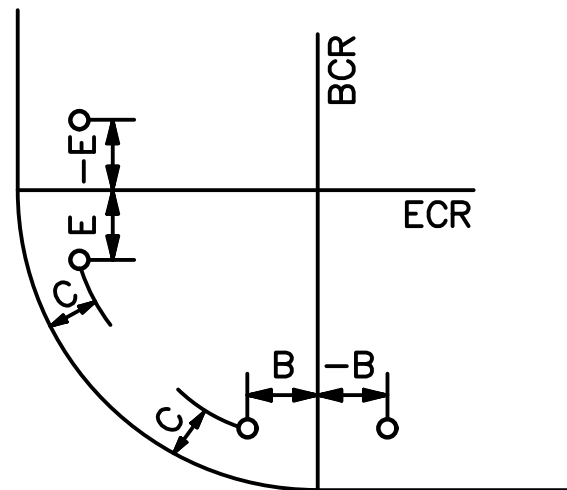
Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-153&E\901-Plans\PL-SIGNAL-03.dwg Dec 16, 2024 - 6:02pm

POLE SCHEDULE ■															
No.	STANDARD			LUMINAIRE LED	VEHICLE SIGNAL MOUNTING		PED SIGNAL	APS PPB			R.R.S.N.S. (POLE MOUNT)	POLE LOCATION (SEE DETAIL "A")			REMARKS
	TYPE	LUM. M.A.	SIG. M.A.					ø	QUAD	ARROW		E	B	C	
(A)	PED POST	—	—	—	—	—	—	—	—	—	—	—	1'	9'	PEU
(B)	15TS	15'	—	165	—	SV-2-TA	SP-1-T	—	—	—	—	—	-7'	3'	
(C)	61-5-100	15'	60'	165	MAS, MAS, MAS, MAS	SV-1-T	—	—	—	—	Riverwalk BI	1.5'	—	5'	F=17', F=12', F=12'
(D)	PED POST	—	—	—	—	—	—	—	—	—	—	18'	—	11.5'	F=23'
(E)	PED POST	—	—	—	—	—	—	—	—	—	—	—	18'	11.5'	
(F)	15TS	15'	—	165	—	SV-1-T	—	—	—	—	—	—	7'	3'	F=23'
(G)	29-5-100	15'	50'	165	MAS, MAS*	SV-1-T	—	—	—	—	Avenue 12	7'	—	5.5'	
(H)	PED POST	—	—	—	—	—	—	—	—	—	—	18'	—	11.5'	F=15', F=12', F=12'
(I)	PED POST	—	—	—	—	—	—	—	—	—	—	—	19'	11.5'	
(J)	15TS	15'	—	165	—	SV-2-TA	—	—	—	—	—	—	5.5'	3'	F=15', F=12', F=12'
(K)	61-5-100	15'	60'	165	MAS, MAS, MAS*, MAS*	SV-1-T	SP-1-T	—	—	—	Riverwalk BI	1'	—	5'	
(L)	PED POST	—	—	—	—	—	—	—	—	—	—	18'	—	11.5'	F=21'
(M)	PED POST	—	—	—	—	—	—	4	S	LT	—	—	12.5'	12'	
(N)	15TS	15'	—	165	—	SV-1-T	—	—	—	—	—	—	-1'	3'	F=21'
(O)	61-5-100	15'	—	165	MAS*, MAS*	SV-1-T	—	—	—	—	Avenue 12	.5'	—	7.5'	
(P)	PED POST	—	—	—	—	—	—	4	N	LT	—	5'	—	13'	

■ ALL EQUIPMENT IS NEW
* - FUTURE MAST ARM SIGNAL INDICATION, ADD TENON AND CAP.

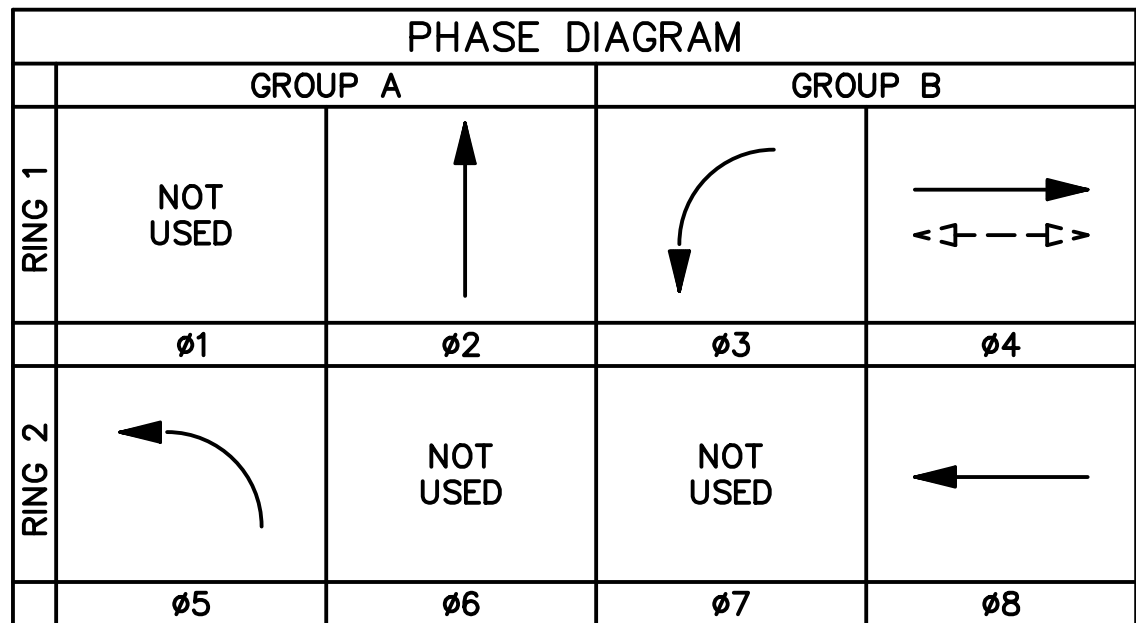
NOTE: ENGINEERING CALCULATIONS PERFORMED ON POLES (C) & (K), WILL ALLOW FOR AN ADDITIONAL VEHICLE HEAD IN LIEU OF THE IISNS ON THE SIGNAL MAST ARM.



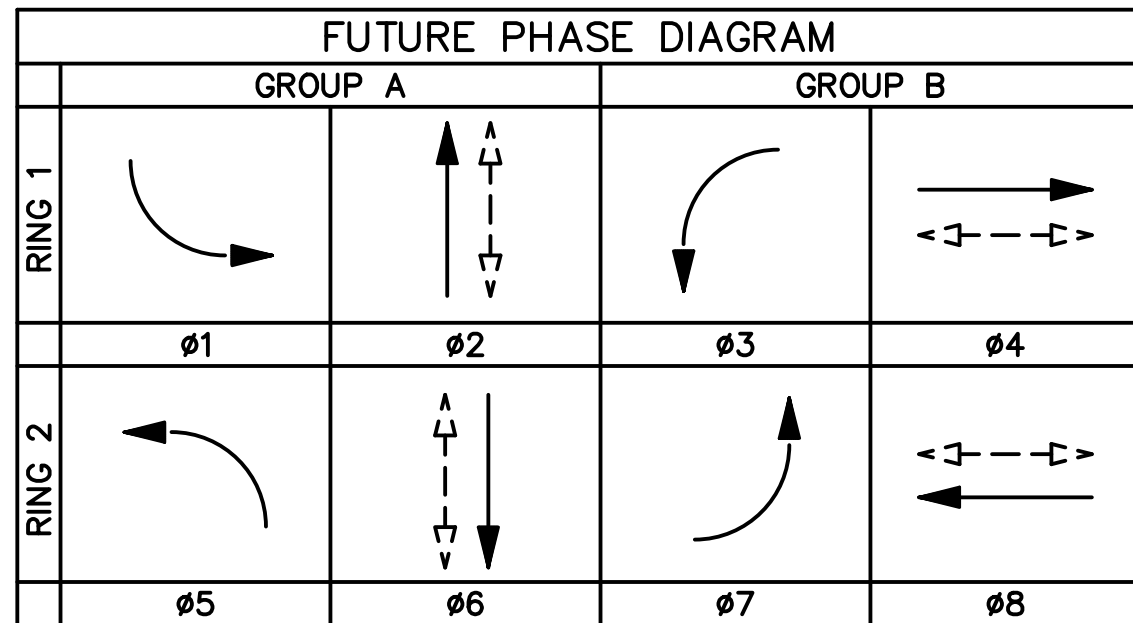
DETAIL "A"

CONDUCTOR SCHEDULE ▲														
AWG	CIRCUIT	RUN												
		1	2	3	4	5	6	7	8	9	10	11	12	13
12 CONDUCTOR CABLE	POLE (A)	1	1	—	—	—	—	—	—	—	—	—	—	—
	POLE (B)	1	1	—	—	—	—	—	—	—	—	—	—	—
	POLE (C)	1	1	1	—	—	—	—	—	—	—	—	—	—
	POLE (D)	1	1	1	1	—	—	—	—	—	—	—	—	—
	POLE (E)	1	1	1	1	1	—	—	—	—	—	—	—	—
	POLE (F)	1	1	1	1	1	1	—	—	—	—	—	—	—
	POLE (G)	1	1	1	1	1	1	1	—	—	—	—	—	—
3 CONDUCTOR CABLE	POLE (H)	1	1	1	1	1	1	1	1	—	—	—	—	—
	POLE (I)	1	1	1	1	1	1	1	1	1	—	—	—	—
	POLE (J)	1	1	1	1	1	1	1	1	1	1	—	—	—
	POLE (K)	1	—	—	—	—	—	—	—	1	1	—	1	1
	POLE (L)	1	—	—	—	—	—	—	—	1	1	1	—	1
	POLE (M)	1	—	—	—	—	—	—	—	1	1	1	—	—
	POLE (N)	1	—	—	—	—	—	—	—	1	1	1	—	—
TYPE B DLC	POLE (O)	1	—	—	—	—	—	—	—	1	1	1	—	—
	POLE (P)	1	—	—	—	—	—	—	—	1	1	1	—	—
	TOTAL	8	8	5	5	4	4	3	4	3	2	2	1	1
	#14 PEU	—	3	—	—	—	—	—	—	—	—	—	—	—
	#8 LUMINAIRE	—	2	2	2	2	2	2	2	2	2	2	2	2
	Ø1 DETECTOR	2	2	2	2	2	—	—	—	—	—	—	—	—
	Ø2 DETECTOR	4	—	—	—	—	—	—	—	4	4	4	—	—
EVP CABLE	Ø3 DETECTOR	2	2	2	2	2	2	2	2	—	—	—	—	—
	Ø4 DETECTOR	6	6	—	—	—	—	—	—	—	—	—	—	—
	Ø5 DETECTOR	2	—	—	—	—	—	—	2	2	2	—	—	—
	Ø6 DETECTOR	2	2	2	2	2	—	—	—	—	—	—	—	—
	Ø7 DETECTOR	2	2	—	—	—	—	—	—	—	—	—	—	—
	Ø8 DETECTOR	6	6	6	6	6	6	6	6	—	—	—	—	—
	TOTAL DLC	26	20	12	12	12	8	8	8	6	6	6	—	—
PULL ROPE (FUT SIC)		1	—	—	—	—	—	—	—	—	—	—	—	—
CONDUIT SIZE		2-4"	2-4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
% FILL		25	17	25	24	19	14	11	9	18	13	7	6	5
E=EXISTING, N=NEW		N	E	N	N	N	N	N	N	N	N	N	N	N

▲ ALL CONDUCTORS ARE NEW
INTERSECTION SHALL BE WIRED PER FUTURE PHASE DIAGRAM



EMERGENCY VEHICLE PREEMPTION
EVA = Ø3 + Ø8
EVB = INACTIVE
EVC = Ø4
EVD = Ø2



EMERGENCY VEHICLE PREEMPTION
EVA = Ø3 + Ø8
EVB = Ø1 + Ø6
EVC = Ø4 + Ø7
EVD = Ø2 + Ø5

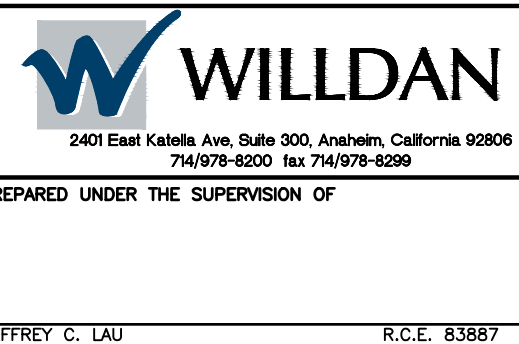
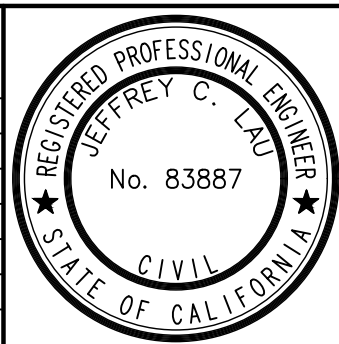
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REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE



SCALE: AS SHOWN	DATE: 12/16/24
DRAWN BY: JBG	12/16/24
DESIGNED BY: BB	12/16/24
CHECKED BY: JL	12/16/24



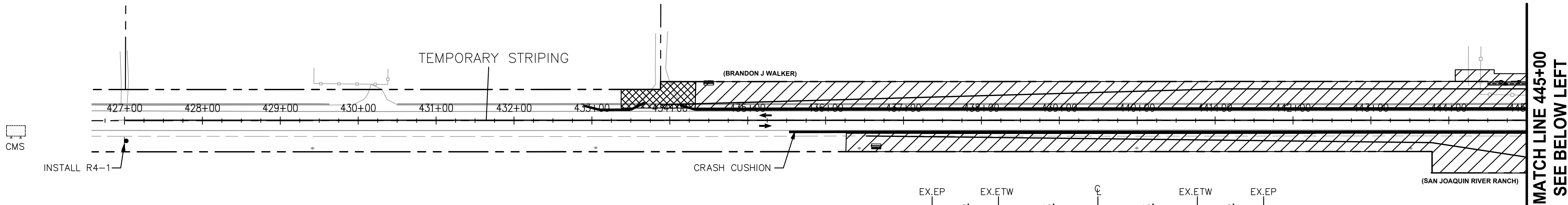
COUNTY OF MADERA	
DEPARTMENT OF PUBLIC WORKS 200 W. FOURTH STREET, 3RD FLOOR MADERA, CA 93637	
APPROVED	DATE
JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS	

AVENUE 12 WIDENING PROJECT
TRAFFIC SIGNAL MODIFICATION PLAN
AVENUE 12 AT RIVERWALK BLVD

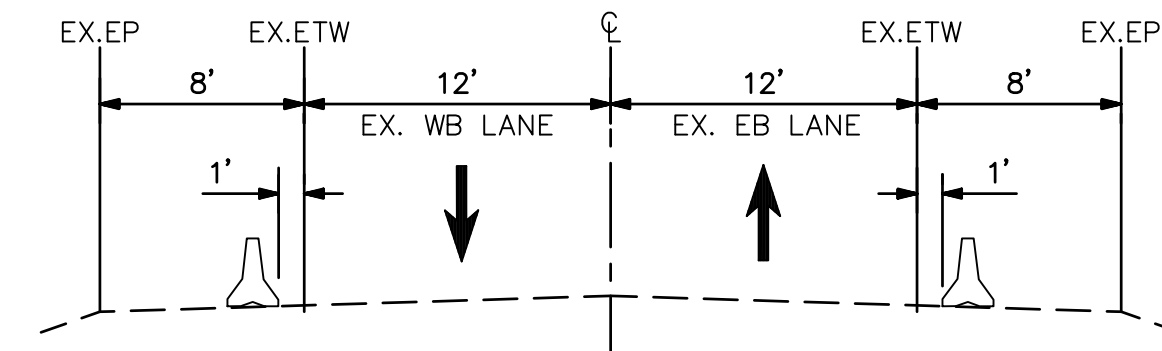
Plotted By: Camryn Lopez

W:\WE-CA\Madera, County of\113051 - Madera Co Avenue 12 PH2 800-PS&E\001-Plans\PL-TCP-STAGE1-01.dwg Dec 16, 2024 - 6:03pm

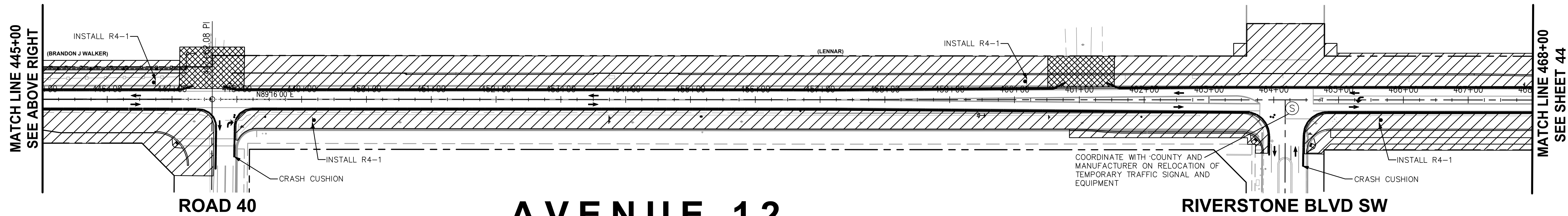
90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



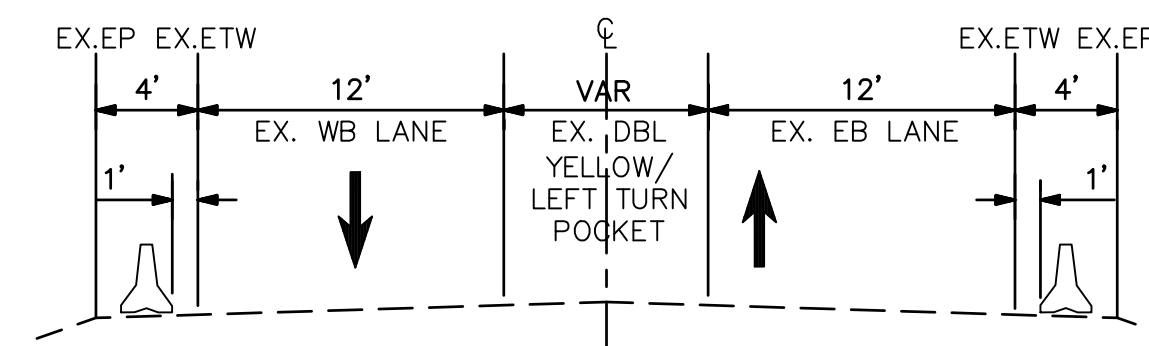
AVENUE 12



TYPICAL SECTION
STA. 433+00 TO STA. 457+00

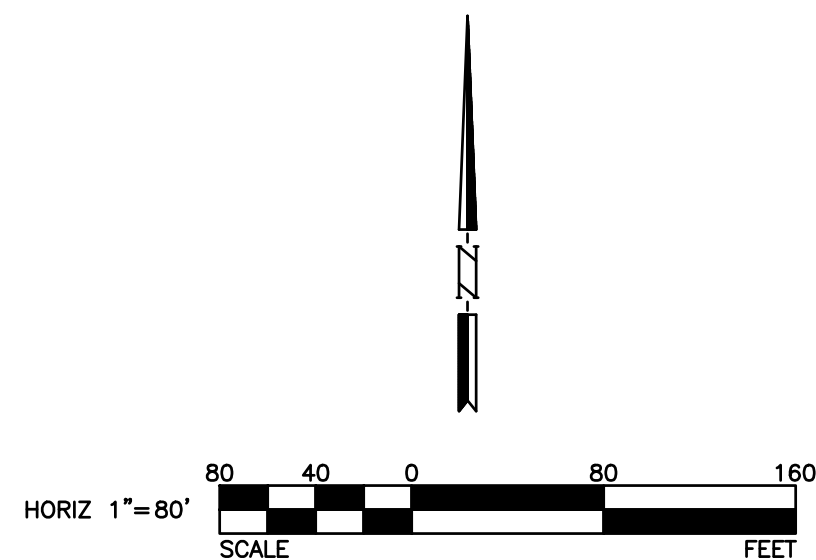


AVENUE 12



TYPICAL SECTION
STA. 457+00 TO STA. 477+00

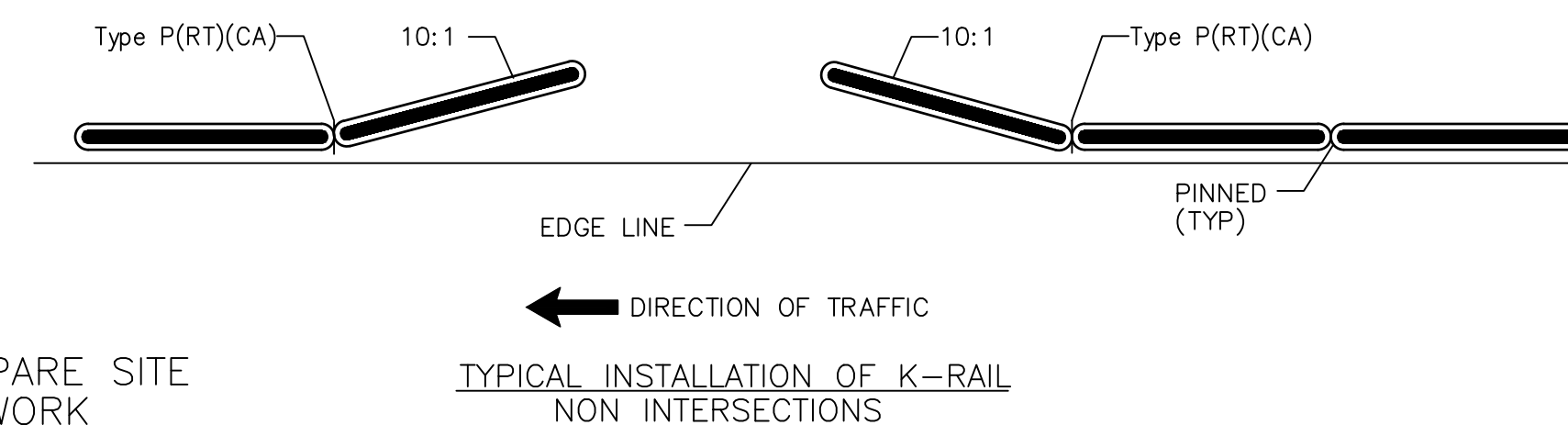
- LEGEND:
- PROPOSED SIGN AND POST
 - DIRECTION OF TRAVEL
 - SIGNALIZED INTERSECTION
 - PROPOSED STRIPING & PAVEMENT MARKINGS
 - PROPOSED 20' K-RAIL (INTERCONNECTED)
 - PROPOSED 10' K-RAIL (INTERCONNECTED)
 - PROPOSED CALTRANS CRASH CUSHION OR ABSORB 350 SYSTEM
 - PROPOSED PORTABLE CHANGEABLE MESSAGE SIGN (CMS)
 - PROPOSED SURFACE MOUNTED CHANNELIZERS
 - WORK AREA (LONG TERM)
 - WORK AREA (SHORT TERM)



STAGE 1 - CONSTRUCTION ACTIVITIES

- EARTHWORK/GRADING
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CURB RAMPS
- PROPOSED PARKWAY IMPROVEMENTS
- PROPOSED TRAFFIC SIGNALS
- PROPOSED WALL/FENCES
- UTILITY RELOCATIONS
- POWER POLE RELOCATIONS (BY OTHERS)
- PROPOSED BASINS

CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE SITE SPECIFIC TRAFFIC HANDLING PLANS FOR ALL WORK REQUIRED FOR CONSTRUCTION FOR COUNTY APPROVAL.



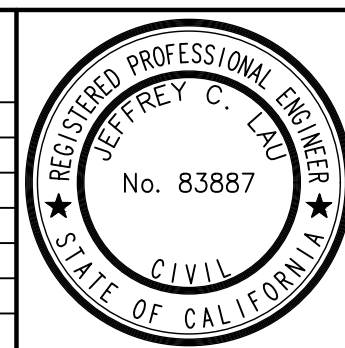
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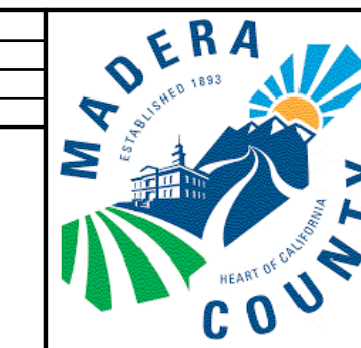
PREPARED UNDER THE SUPERVISION OF

JEFFREY C. LAU R.C.E. 83887 DATE

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DESIGNED BY: SB
CHECKED BY: JL

DATE
12/16/24
12/16/24
12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS DATE

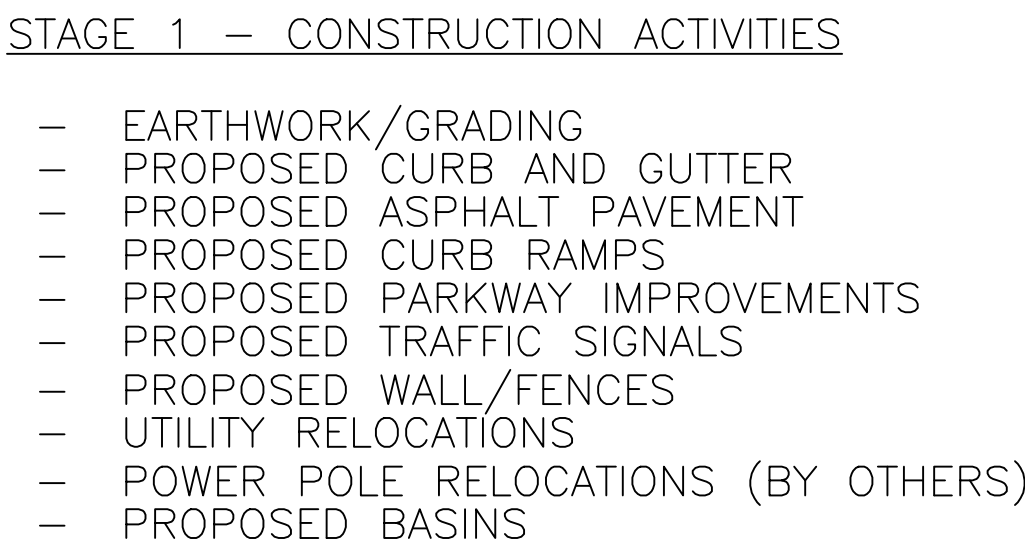
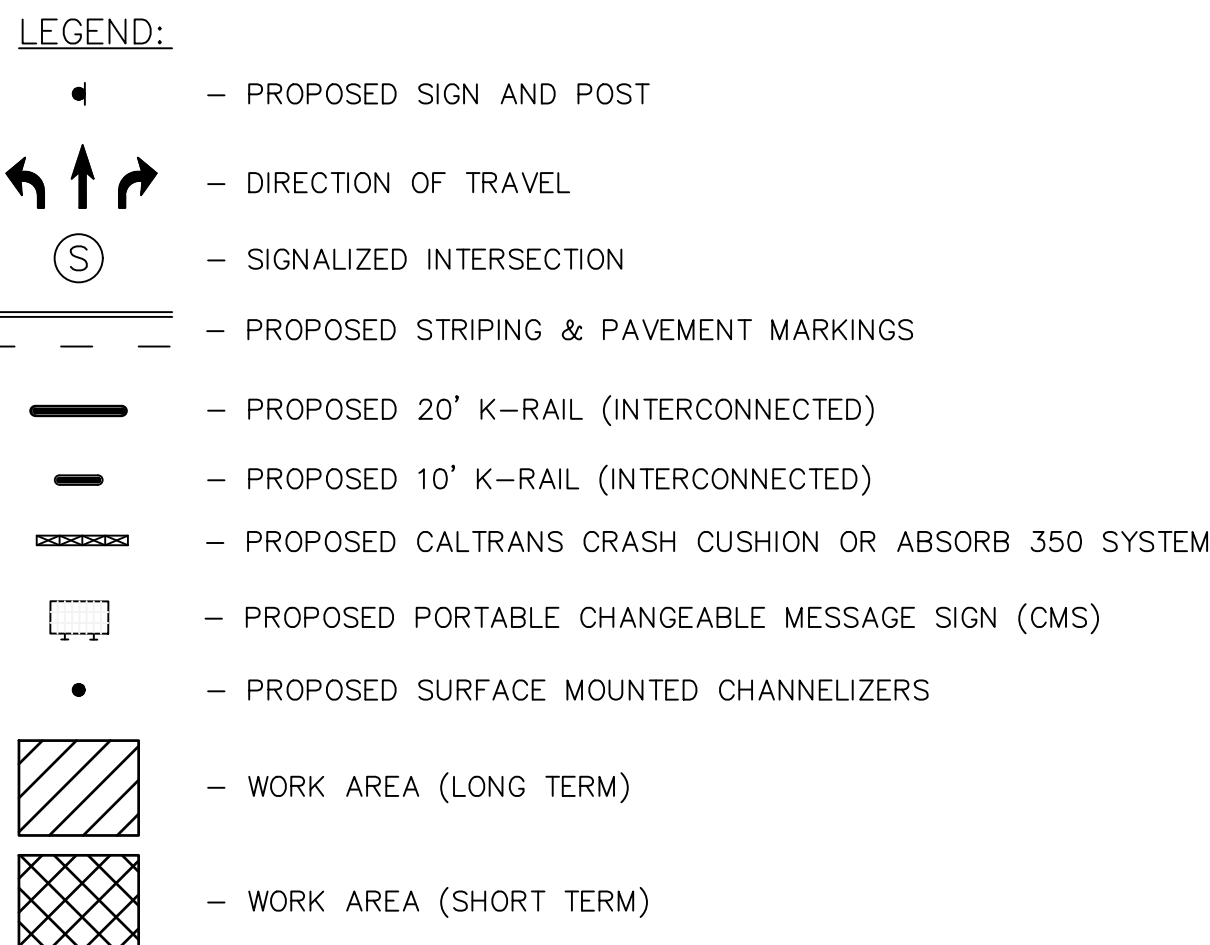
COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
STAGE CONSTRUCTION PLAN
AVENUE 12
STAGE 1

SHEET

42 OF 49

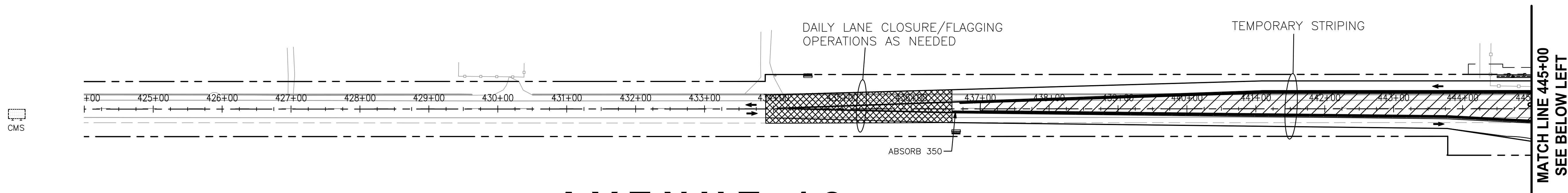
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SC-1



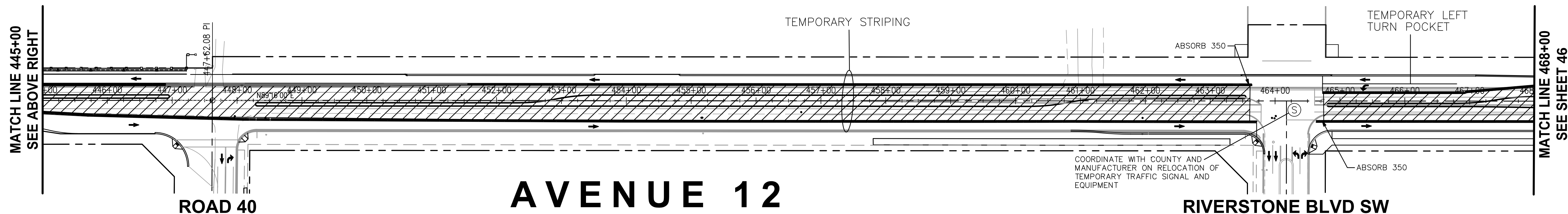
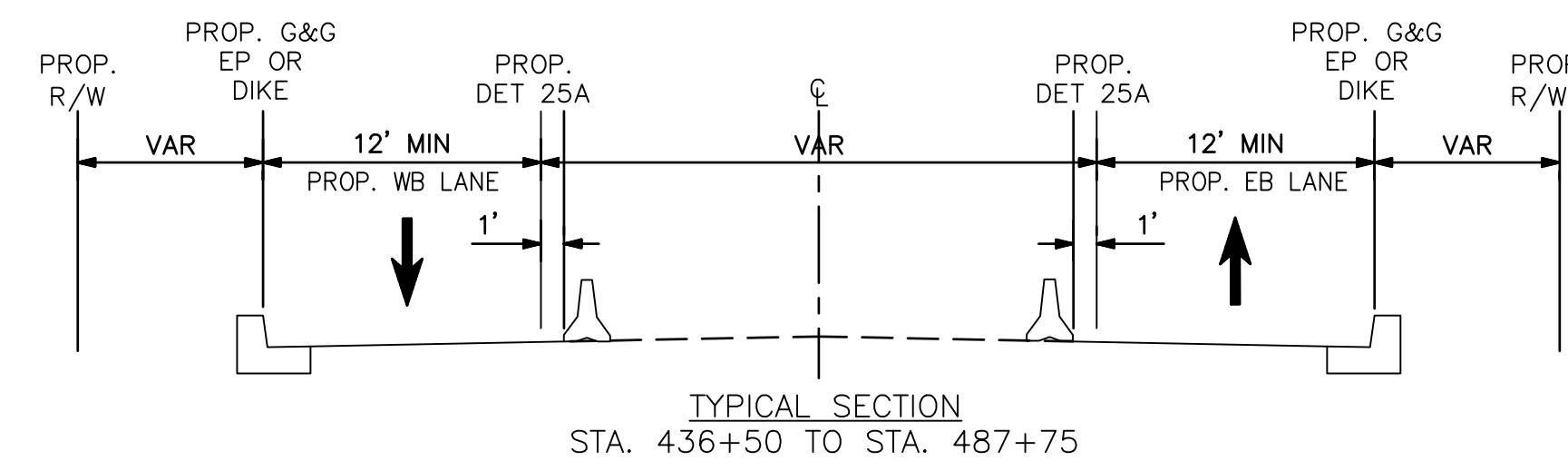
Plotted By: Camryn Lopez

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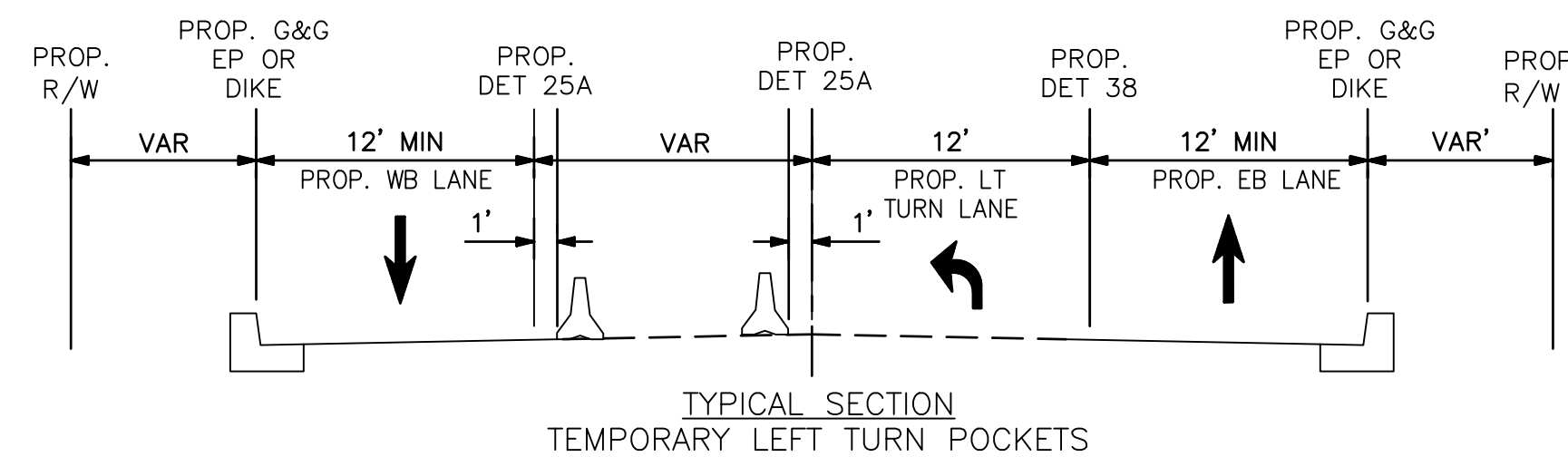
90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024



AVENUE 12



AVENUE 12

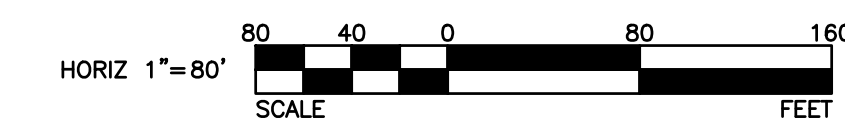


- LEGEND:**
- PROPOSED SIGN AND POST
 - DIRECTION OF TRAVEL
 - SIGNALIZED INTERSECTION
 - PROPOSED STRIPING & PAVEMENT MARKINGS
 - PROPOSED 20' K-RAIL (INTERCONNECTED)
 - PROPOSED 10' K-RAIL (INTERCONNECTED)
 - PROPOSED CALTRANS CRASH CUSHION OR ABSORB 350 SYSTEM
 - PROPOSED PORTABLE CHANGEABLE MESSAGE SIGN (CMS)
 - PROPOSED SURFACE MOUNTED CHANNELIZERS
 - WORK AREA (LONG TERM)
 - WORK AREA (SHORT TERM)

STAGE 2 - CONSTRUCTION ACTIVITIES

- PROPOSED RAISED MEDIAN
- PROPOSED LANDSCAPE MEDIAN IMPROVEMENTS
- TEMPORARY STRIPING/PAVEMENT MARKINGS

CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE SITE SPECIFIC TRAFFIC HANDLING PLANS FOR ALL WORK REQUIRED FOR CONSTRUCTION FOR COUNTY APPROVAL.

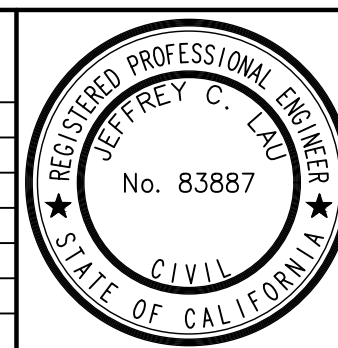


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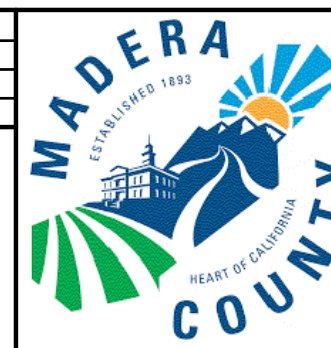
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CHECKED BY: JL	12/16/24



COUNTY OF MADERA
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

APPROVED

JARED CARTER DEPUTY DIRECTOR OF PUBLIC WORKS DATE

COUNTY OF MADERA

AVENUE 12 WIDENING PROJECT
STAGE CONSTRUCTION PLAN
AVENUE 12
STAGE 2

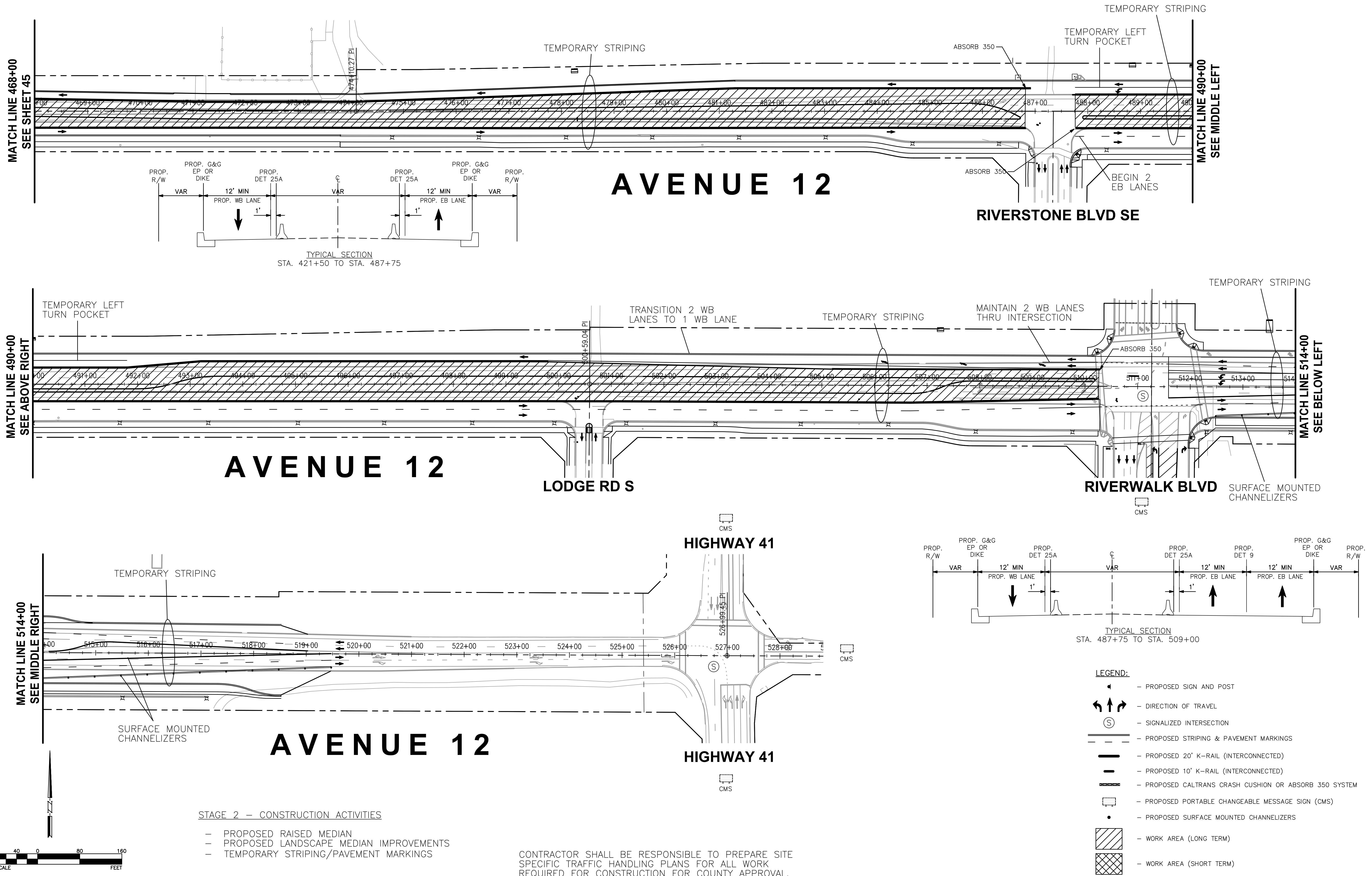
SHEET

45 OF 49

DWG. NO.
SC-3

Plotted By: Camryn Lopez

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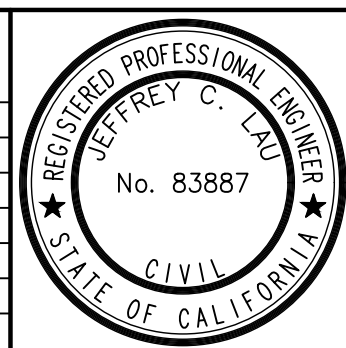


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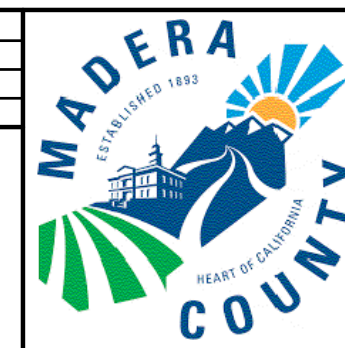
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JEFFREY C. LAU R.C.E. 83887 DATE

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COUNTY OF MADERA

DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93637

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JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

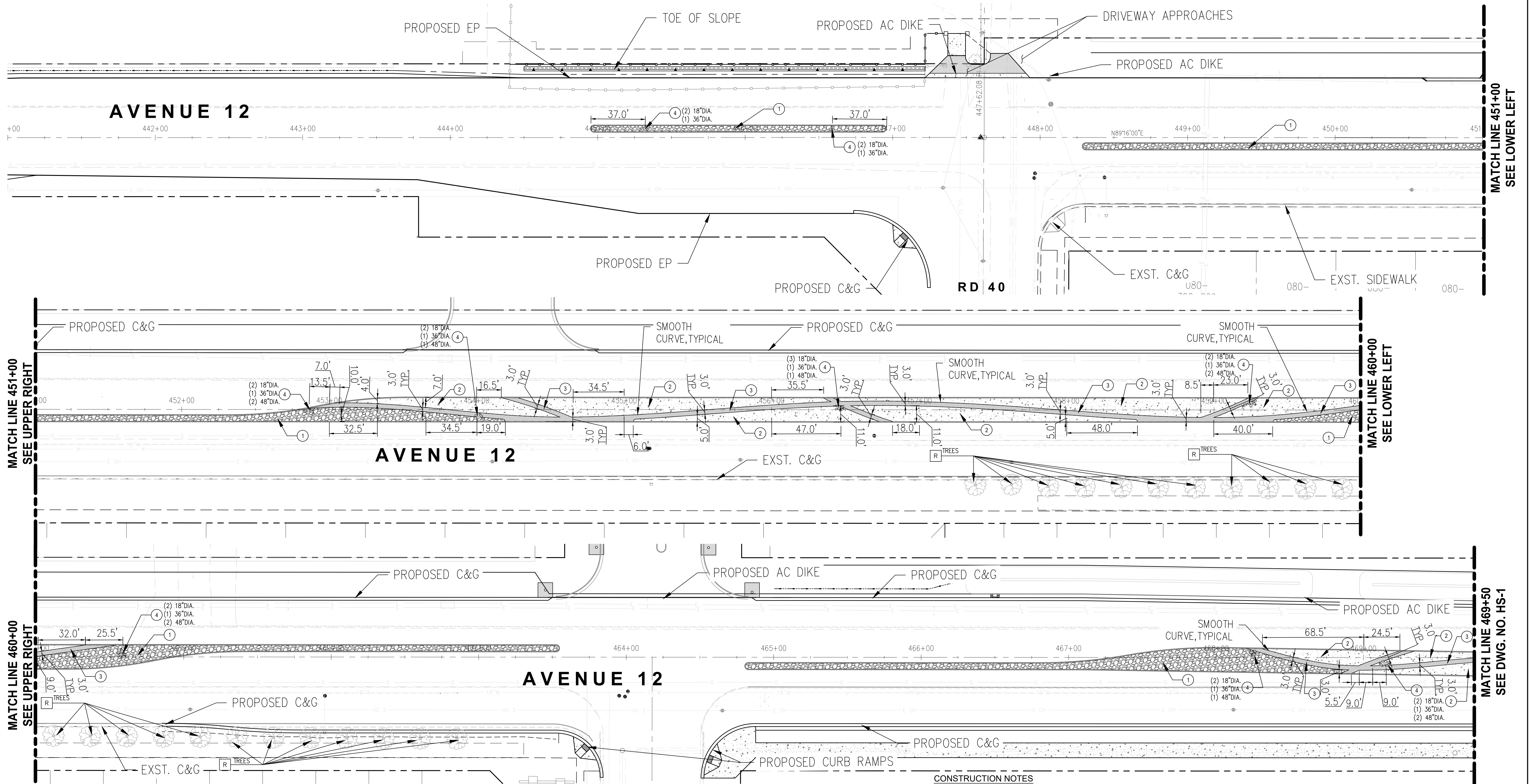
DATE

COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT STAGE CONSTRUCTION PLAN AVENUE 12 STAGE 2	46 OF 49
	DWG. NO. SC-4

90% SUBMITTAL NOT FOR CONSTRUCTION 12/16/2024

Plotted By: Camryn Lopez

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RIVERSTONE BLVD SW

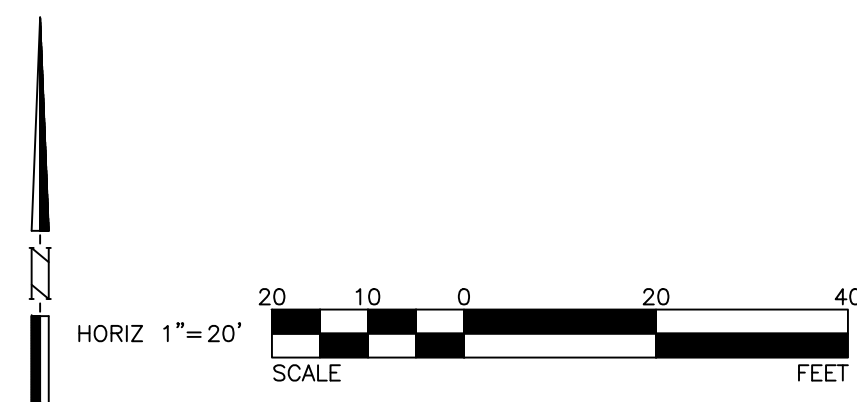
TREE REMOVAL NOTES

1. AFTER EXISTING TREE REMOVAL HAS BEEN COMPLETED, THE CONTRACTOR SHALL BACKFILL VOID WITH CLEAN CLASS "A" OR "C" TOPSOIL.
2. FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED WOOD MULCH OVER BACKFILL AREA.
3. CONTRACTOR SHALL REPLACE ALL DAMAGED EXISTING PLANTING MATERIAL AND IRRIGATION EQUIPMENT, SPRINKLERS, PIPES, ETC. IN KIND DUE TO TREE REMOVAL.

CONSTRUCTION NOTES

1. REMOVE AND CONSTRUCT MEDIAN COBBLESTONE PAVING. SEE DETAIL A, DWG. NO. HS-3
 2. REMOVE AND CONSTRUCT 4-INCH THICK MEDIAN PCC PAVING. COLOR & FINISH: SEE DETAIL B, DWG. NO. HS-3
 3. REMOVE AND CONSTRUCT 4-INCH THICK MEDIAN PCC PAVING WITH SEEDED COLOR PEBBLES. SEE DETAIL B, DWG. NO. HS-3
 4. FURNISH AND INSTALL DECORATIVE LANDSCAPE BOULDERS. SIZE & QUANTITY PER PLAN. SEE DETAIL A, DWG. NO. HS-3
- [R] REMOVE AND DISPOSE EXISTING PARKWAY TREE, COMPLETE WITH ROOTS TO 18-INCH DEPTH. SEE TREE REMOVAL NOTES.

[P] PROTECT IN PLACE.



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REVISIONS

NO.	INITIAL	DESCRIPTION	APPROVED BY	DATE

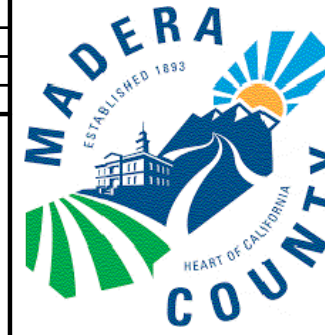


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COUNTY OF MADERA

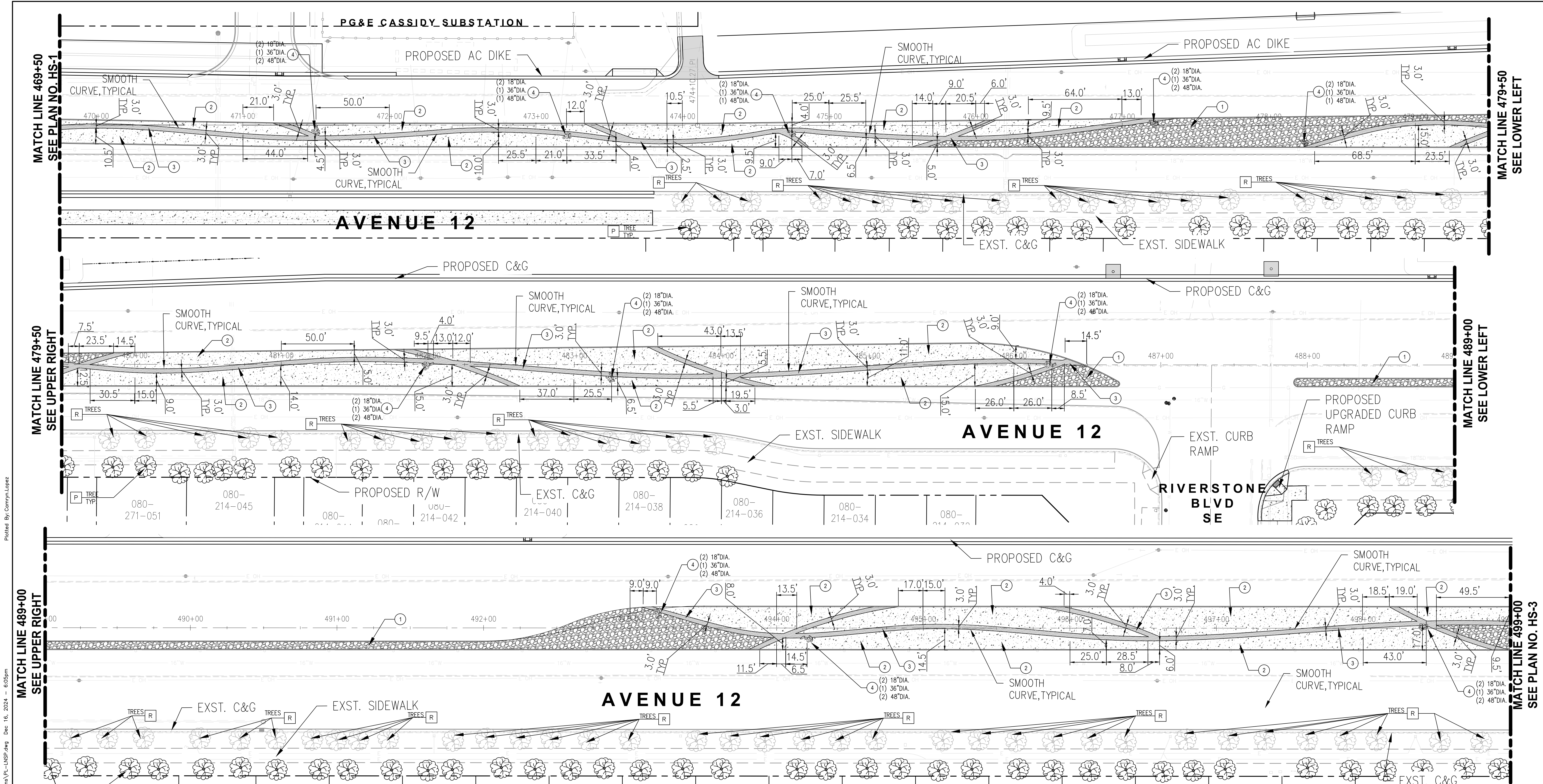
DEPARTMENT OF PUBLIC WORKS
200 W. FOURTH STREET, 3RD FLOOR
MADERA, CA 93607

APPROVED

JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

COUNTY OF MADERA	SHEET
AVENUE 12 WIDENING PROJECT	47 OF 49
MEDIAN HARDSCAPE PLAN	DWG. NO.
STATION 441+00 TO STATION 469+50	HS-1

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Plotted By: Camryn Lopez

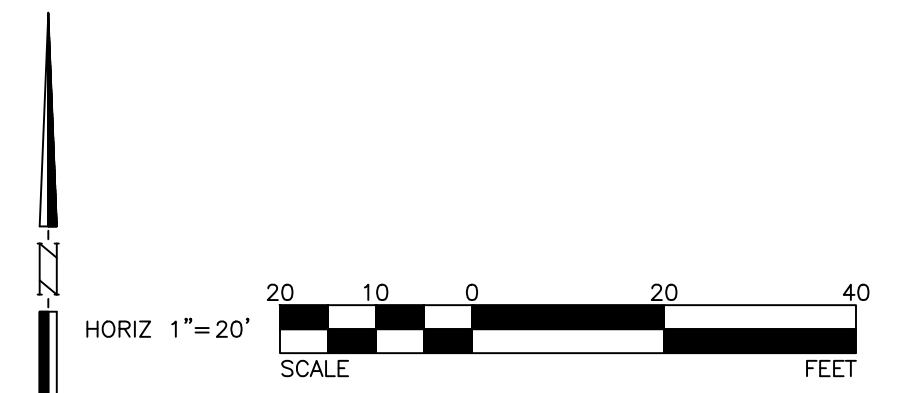


CONSTRUCTION NOTES

- 1 REMOVE AND CONSTRUCT MEDIAN COBBLESTONE PAVING. SEE DETAIL A, DWG. NO. HS-3
- 2 REMOVE AND CONSTRUCT 4-INCH THICK MEDIAN PCC PAVING. COLOR & FINISH: SEE DETAIL B, DWG. NO. HS-3
- 3 REMOVE AND CONSTRUCT 4-INCH THICK MEDIAN PCC PAVING WITH SEEDED COLOR PEBBLES. SEE DETAIL B, DWG. NO. HS-3
- 4 FURNISH AND INSTALL DECORATIVE LANDSCAPE BOULDERS. SIZE & QUANTITY PER PLAN. SEE DETAIL A, DWG. NO. HS-3
- R REMOVE AND DISPOSE EXISTING PARKWAY TREE, COMPLETE WITH ROOTS TO 18-INCH DEPTH. SEE TREE REMOVAL NOTES.

TREE REMOVAL NOTES

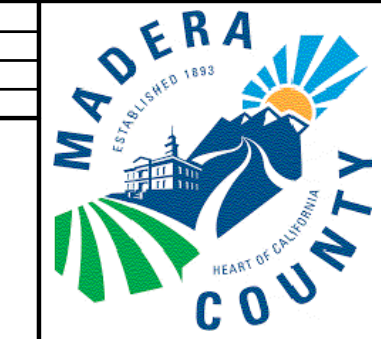
- 1. AFTER EXISTING TREE REMOVAL HAS BEEN COMPLETED, THE CONTRACTOR SHALL BACKFILL VOID WITH CLEAN CLASS "A" OR "C" TOPSOIL.
- 2. FURNISH AND INSTALL 3-INCH LAYER OF SHREDDED WOOD MULCH OVER BACKFILL AREA.
- 3. CONTRACTOR SHALL REPLACE ALL DAMAGED EXISTING PLANTING MATERIAL AND IRRIGATION EQUIPMENT, SPRINKLERS, PIPES, ETC. IN KIND DUE TO TREE REMOVAL.



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DEPARTMENT OF PUBLIC WORKS
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MADERA, CA 93607

APPROVED
JARED CARTER
DEPUTY DIRECTOR OF PUBLIC WORKS

DATE

COUNTY OF MADERA
AVENUE 12 WIDENING PROJECT
HARDSCAPE PLAN
STATION 469+50 TO STATION 499+00

SHEET
48 OF 49
DWG. NO.
HS-2

