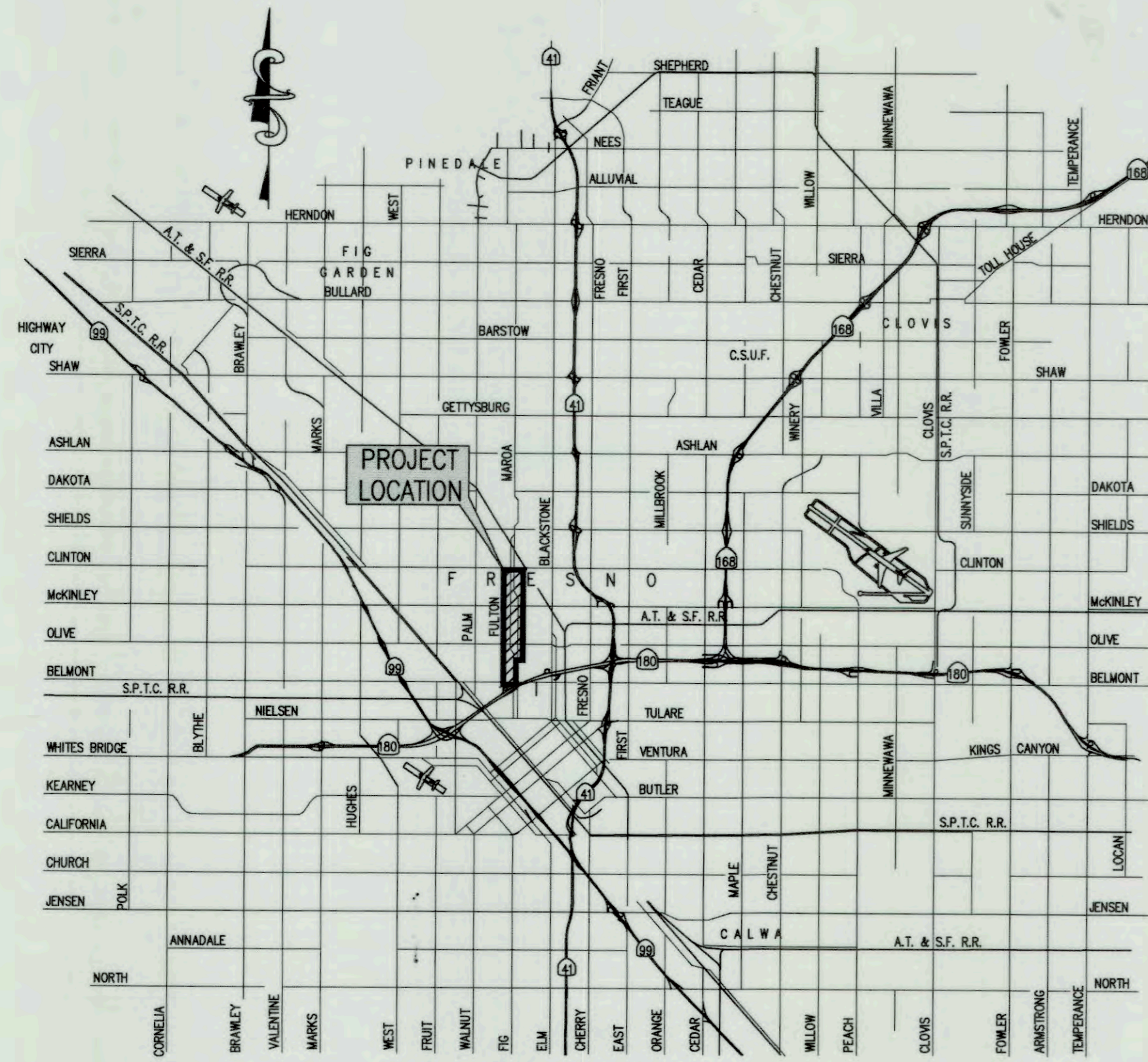


FULTON, WISHON, AND VAN NESS  
CLASS IV BIKE WAY



VICINITY MAP  
NOT TO SCALE

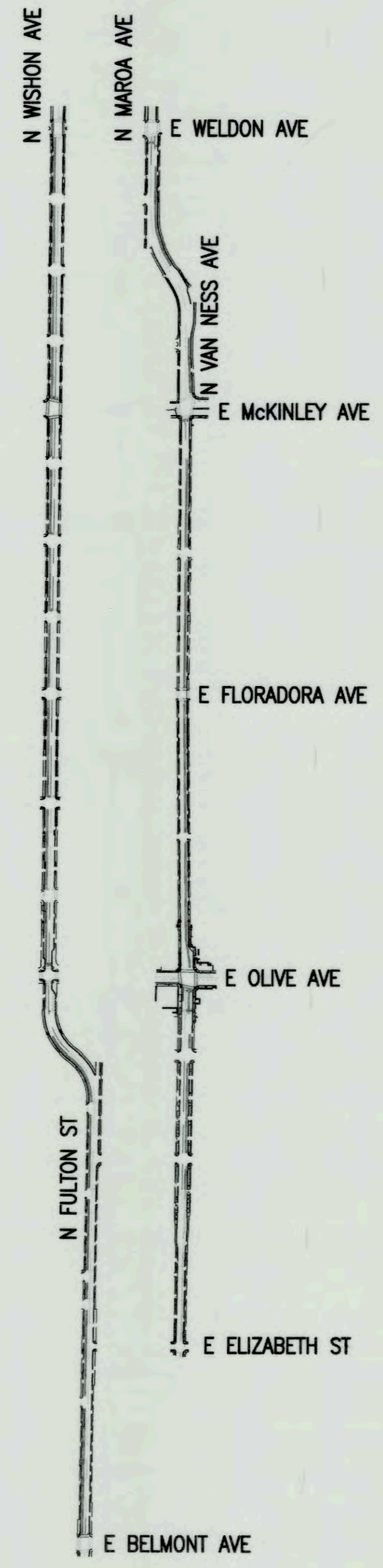
□	DRAIN INLET	□	PG&E PULLBOX	---	CENTERLINE
□	CURB INLET	□	STREET LIGHT PULLBOX	---	RIGHT OF WAY LINE
⊙	SD MANHOLE	□	SERVICE CABINET	---	PROPERTY LINE
⊙	SANITARY SEWER MANHOLE	□	TRAFFIC SIGNAL PULLBOX	---	CONCRETE
⊙	FIRE HYDRANT	□	TRAFFIC SIGNAL CABINET	---	CURB AND GUTTER
⊙	FIRE DEPARTMENT CONNECTION	□	ITS COMMUNICATION BOX	---	EDGE OF PAVEMENT
⊙	WATER VALVE	□	ITS HUB CABINET	---	FENCELINE
⊙	WATER METER	□	TRAFFIC SIGNAL POLE	---	STORM DRAIN
⊙	BACKFLOW PREVENTOR	□	TRAFFIC SIGNAL-STREET LIGHT	---	SANITARY SEWER
⊙	DETECTOR CHECK VALVE	□	TRAFFIC SIGNAL LOOP	---	WATER MAIN
⊙	POST INDICATOR VALVE	□	CABLE TV BOX	---	NATURAL GAS
⊙	BLOW-OFF ASSEMBLY	□	TELEPHONE MANHOLE	---	OVERHEAD ELECTRIC
⊙	GAS VALVE	□	TELEPHONE BOX	---	UNDERGROUND ELECTRIC
⊙	GAS METER	□	TELEPHONE POLE	---	OVERHEAD TELEPHONE
⊙	ELECTRICAL MANHOLE	□	UTILITY VAULT	---	UNDERGROUND TELEPHONE
⊙	POWER POLE	□	MAILBOX	---	FIBER OPTIC
⊙	JOINT POLE	□	TRAFFIC SIGN	---	CABLE TV
⊙	GUY WIRE	□	PARKING METER	---	TRAFFIC SIGNAL CONDUIT
⊙	STREET LIGHT	□	BENCHMARK	---	ITS CONDUIT
⊙	ELECTRICAL BOX	□	PROPERTY CORNER		
⊙	TRANSFORMER PAD/EQUIPMENT				

**ABBREVIATIONS:**

AC	ASPHALT CONCRETE	FID	FRESNO IRRIGATION DISTRICT	PRC	POINT OF REVERSE CURVE
ADD ALT.	ADDITIVE ALTERNATE	FL	FLOWLINE	PROP.	PROPOSED
AB	AGGREGATE BASE	FMFCD	FRESNO METROPOLITAN FLOOD CONTROL DISTRICT	PT	POINT
BC	BEGIN OF CURB	G	GUTTER	PTA	POINT OF TANGENCY
BCR	BEGINNING OF CURB RETURN	GB	GRADE BREAK	RC	RELATIVE COMPACTION
BM	BENCHMARK	GV	GATE VALVE	RGC	RIGID GALVANIZED CONDUIT
BVC	BEGIN OF VERTICAL CURVE	HMA	HOT MIX ASPHALT	ROW	RIGHT OF WAY
BW	BACK OF WALK	H<PT	HORIZONTAL ANGLE POINT	RT	RIGHT SIDE
C	CONCRETE	IC	INTERCONNECT	R/W	RIGHT OF WAY
CAB	CABINET	ICB	IRRIGATION CONTROL BOX	S	SEWER
C&G	CURB & GUTTER	ITS	INTELLIGENT TRANSPORTATION SYSTEM	SL	STATION LINE OR SAWCUT LINE
C.N.S.	COMPACTED NATIVE SOIL	IVB	IRRIGATION VALVE BOX	SD	STORM DRAIN
COMM.	COMMUNICATION	JP	JOINT-USED POLE	STA	STATION
DI	DRAIN INLET	LT	LEFT SIDE	TC	TOP OF CURB
DLC	DETECTOR LEAD-IN CABLE	ME	MATCH EXISTING	TSCB	TRAFFIC SIGNAL CONTROLLER CABINET
E	ELECTRIC	NTS	NOT TO SCALE	TRB	TELEPHONE RISER BOX
EC	END OF CURVE	OH	OVERHEAD	TS	TRAFFIC SIGNAL
ECR	END OF CURB RETURN	P	PAVEMENT	TYP.	TYPICAL
ELR	ELECTROLIER	PB	PULL BOX	VAR	VARIES
EMB	ELECTRICAL METER BOX	PC	POINT OF CURVATURE	VPC	VERTICAL PARABOLIC CURVE
EP	EDGE OF PAVEMENT	PCC	POINT OF COMPOUND CURVE	W	WATER
EX	EXISTING	PI	POINT OF INTERSECTION		
EVC	END OF VERTICAL CURVE				
FH	FIRE HYDRANT				

**SURVEY NOTE:**  
NO BENCHMARK USED  
PLANIMETERIC ONLY

**POTHOLE NOTE:**  
PRIOR TO ANY EXCAVATION AND/OR DIGGING, CONTRACTOR SHALL POTHOLE ALL AFFECTED UTILITY CROSSINGS TO VERIFY SIZE, DEPTH AND TYPE OF PIPE. CONTRACTOR TO PROTECT EXISTING UTILITIES TO REMAIN AT ALL TIMES DURING CONSTRUCTION.



LOCATION MAP  
NOT TO SCALE

**GENERAL NOTES:**

- THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE SPECIFICATIONS ENTITLED CITY OF FRESNO, STANDARD SPECIFICATIONS, LATEST EDITION, IN SO FAR AS THE SAME MAY APPLY, WHICH SPECIFICATIONS HEREINAFTER ARE REFERRED TO AS THE STANDARD SPECIFICATION.
- CONTRACTOR WILL NOTIFY F.M.F.C.D CONSTRUCTION MANAGER, AT (559) 456-3292, 48 HOURS PRIOR TO CONNECTING TO ANY STORM DRAIN FACILITY (NOT APPLICABLE).
- TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT, TOLL FREE, AT 1-800-227-2600 OR 811.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF AN OWNER'S WRITTEN AUTHORIZATION AND/OR SIGNED USE AGREEMENT PRIOR TO THE START OF WORK FOR ANY TEMPORARY WORK AREA, STANDING AREA, OR EQUIPMENT STORAGE FACILITIES TO BE USED FOR THIS PROJECT. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF A WRITTEN RELEASE LETTER STATING THAT ALL TEMPORARY USES FACILITIES HAVE BEEN RESTORED BACK TO THE OWNER'S SATISFACTION.
- CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES AND PROVIDE PROTECTION PRIOR TO AND DURING CONSTRUCTION.
- IN THE EVENT OVERHEAD ELECTRICAL LINES EXIST WITHIN THE LIMITS OF CONSTRUCTION, MAINTAIN PROPER CLEARANCE. CONTACT P.G. & E TO VERIFY WIRE LOCATION.

**SHEET INDEX**

DESCRIPTION	SHEET NO.	DRAWING NO.
COVER SHEET	1	15-E-12686
SLURRY SEAL	2	15-E-12687
SLURRY SEAL	3	15-E-12688
SLURRY SEAL	4	15-E-12689
SLURRY SEAL	5	15-E-12690
CLASS IV SIGNAGE AND STRIPING - WISHON AVE	6	15-E-12691
CLASS IV SIGNAGE AND STRIPING - WISHON AVE	7	15-E-12692
CLASS IV SIGNAGE AND STRIPING - WISHON AVE	8	15-E-12693
CLASS IV SIGNAGE AND STRIPING - VAN NESS AVE	9	15-E-12694
CLASS IV SIGNAGE AND STRIPING - VAN NESS AVE	10	15-E-12695
CLASS IV SIGNAGE AND STRIPING - VAN NESS AVE	11	15-E-12696
CLASS IV SIGNAGE AND STRIPING - VAN NESS AVE	12	15-E-12697
DETECTOR DETAIL	13	4-E-3539

**APPROVED BY**

*Andrew J. Benelli*  
CITY ENGINEER  
DATE: Feb. 23, 2022

*ADL*  
CITY OF FRESNO TRAFFIC ENGINEERING  
DATE: 2/22/2022

*Lee*  
CITY OF FRESNO CONSTRUCTION MANAGEMENT  
DATE: 2-16-2022

*Carla Jo*  
CITY OF FRESNO TSSL SUPERVISOR  
DATE: 02/16/2022

CITY OF FRESNO TRAFFIC OPERATIONS CENTER  
DATE: \_\_\_\_\_

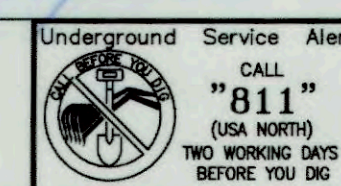


*Steve Delsid*  
STEVE DELSID, R.C.E.  
DATE: 2/15/22

FW FILE NO. 12891  
PROJ. ID. FWO02226  
PLND NO. 22056  
ORG. NO. 189901

CITY OF FRESNO  
DEPARTMENT OF PUBLIC WORKS  
FULTON, WISHON, AND VAN NESS  
CLASS IV BIKE WAY  
COVER SHEET

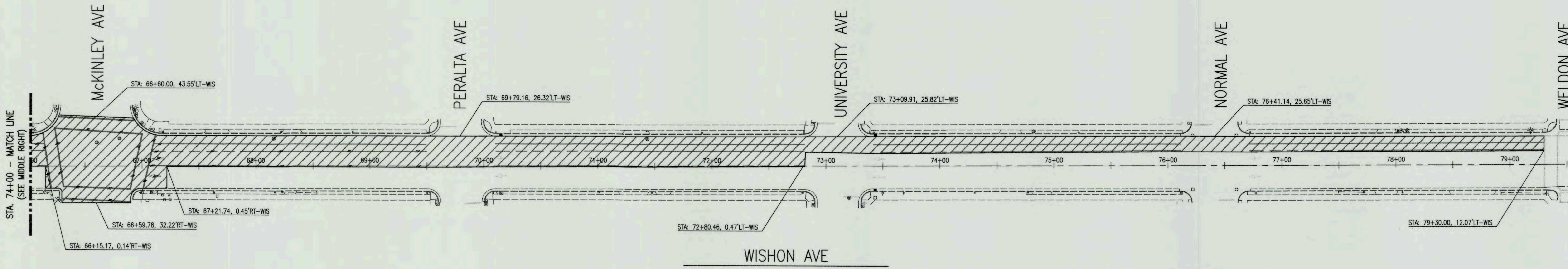
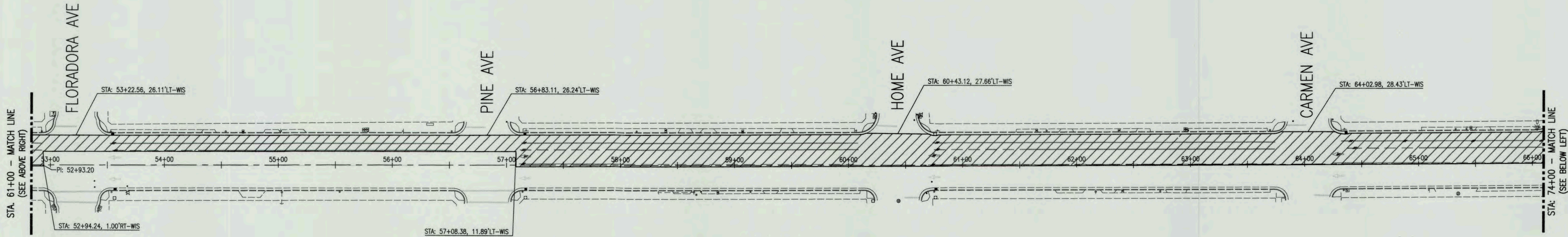
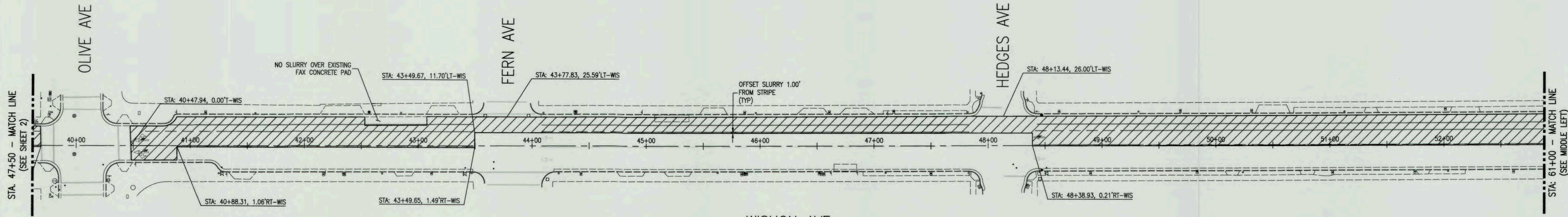
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OFFICE ENG. \_\_\_\_\_  
DR. BY: \_\_\_\_\_ SHEET NO. \_\_\_\_\_  
CHK. BY: \_\_\_\_\_ OF 13 SHEETS  
DATE: \_\_\_\_\_  
SCALE: AS NOTED 15-E-12686



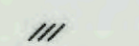
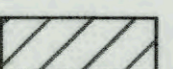


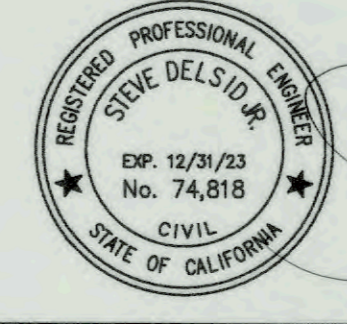
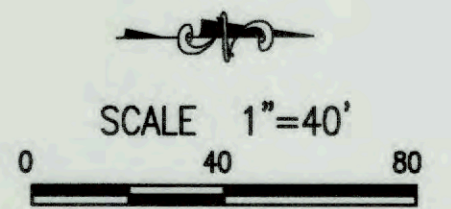






**CONSTRUCTION SYMBOLS AND LEGEND:**

-  GRIND EXISTING STRIPE OUT
-  SLURRY SEAL. REMOVE ALL PAVEMENT STRIPES, MARKERS, AND SEAL ALL CRACKS PRIOR TO SLURRY SEAL.



Steve Delsid  
 STEVE DELSID, R.C.E.  
 DATE: 2/15/22

PW FILE NO.	12681
PROJ. ID.	FWD0926
FUND NO.	200000
ORG. NO.	188801
REF. & REV.	
REF#	REV#

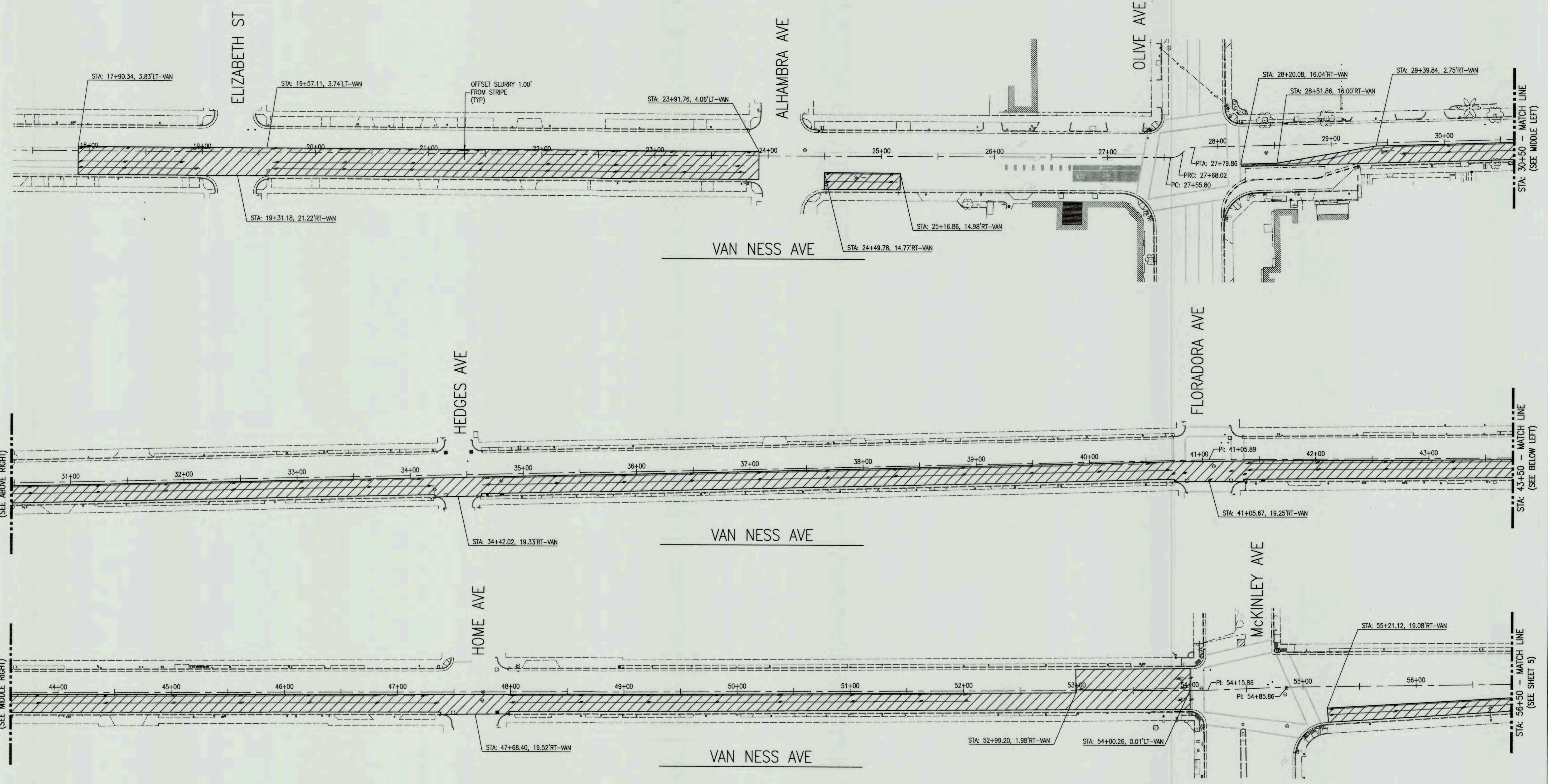
CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
FULTON, WISHON, AND VAN NESS			
CLASS IV BIKE WAY			
REVIEWED:	ND	CITY ENG.	AGD
DR. BY:	NT	SHEET NO.	3
CH. BY:		OF	13
DATE:		SCALE:	AS NOTED
SLURRY SEAL		15-E-12688	

ALL PROJECTS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE BLACKSTONE PROJECT DESIGN IS PLANNED TO BE COMPLETED BY 2/15/22. 02:00:25 PM - Plotted by: mdelid

UNDERGROUND SERVICE ALERT  
 CALL 811  
 (USA NORTH)  
 TWO WORKING DAYS  
 BEFORE YOU DIG  
 PW0926 - 100 BLACKSTONE

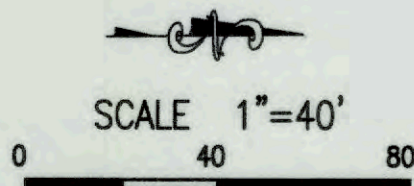


PROJECT: PUBLIC WORKS - FULTON, WISHON, AND VAN NESS CLASS IV BIKEWAY - PLAN DATE: 2-14-22 09:08:30 PM - PLOT BY: wadhat



CONSTRUCTION SYMBOLS AND LEGEND:

- GRIND EXISTING STRIPE OUT
- SLURRY SEAL. REMOVE ALL PAVEMENT STRIPES, MARKERS, AND SEAL ALL CRACKS PRIOR TO SLURRY SEAL.

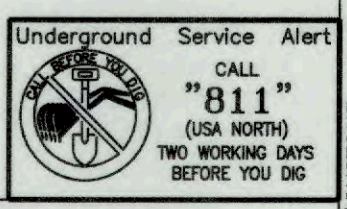


Steve Delsid 2/15/22  
STEVE DELSID, R.C.E. DATE

PW FILE NO.	12681
PROJ. ID.	PW00926
FUND NO.	22056
ORG. NO.	18991
REF. & REV.	
REF#	
REV#	

CITY OF FRESNO  
FULTON, WISHON, AND VAN NESS  
CLASS IV BIKEWAY

REVIEWED:	AD	CITY ENG.	AD
DR. BY:	NE	SHEET NO.	13
CH. BY:		OF	13
DATE:		SHEETS	
SCALE:	AS NOTED		15-E-12689

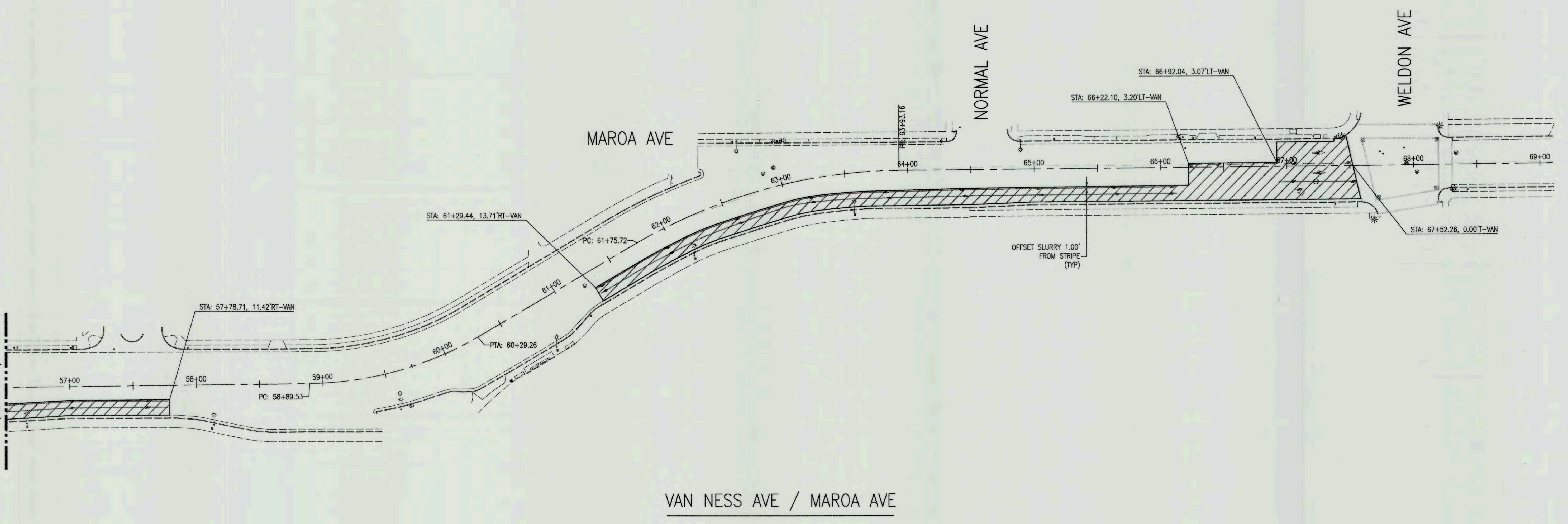


PW00926 15-E-12689



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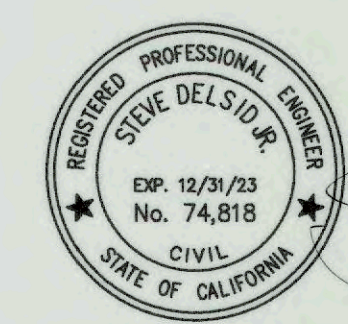
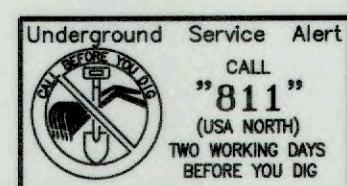
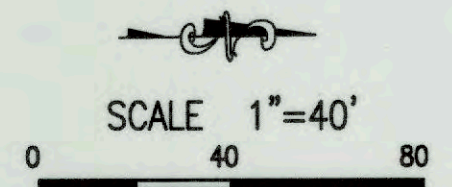
STA. 56+50 - MATCH LINE  
(SEE SHEET 4)



VAN NESS AVE / MAROA AVE

**CONSTRUCTION SYMBOLS AND LEGEND:**

- GRIND EXISTING STRIPE OUT
- SLURRY SEAL. REMOVE ALL PAVEMENT STRIPES, MARKERS, AND SEAL ALL CRACKS PRIOR TO SLURRY SEAL.



*Steve Delsid* 2/15/22  
 STEVE DELSID, R.C.E. DATE

PW FILE NO.	12691
PROJ. ID.	PW00026
FUND NO.	22056
ORG. NO.	189901
REF. & REV.	REF#REV

**CITY OF FRESNO**  
**FULTON, WISHON, AND VAN NESS**  
**CLASS IV BIKE WAY**

REVIEWED:	CITY ENG.	<i>ags</i>
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DR. BY:	NT	OF 13 SHEETS
DATE:	AS NOTED	15-E-12690

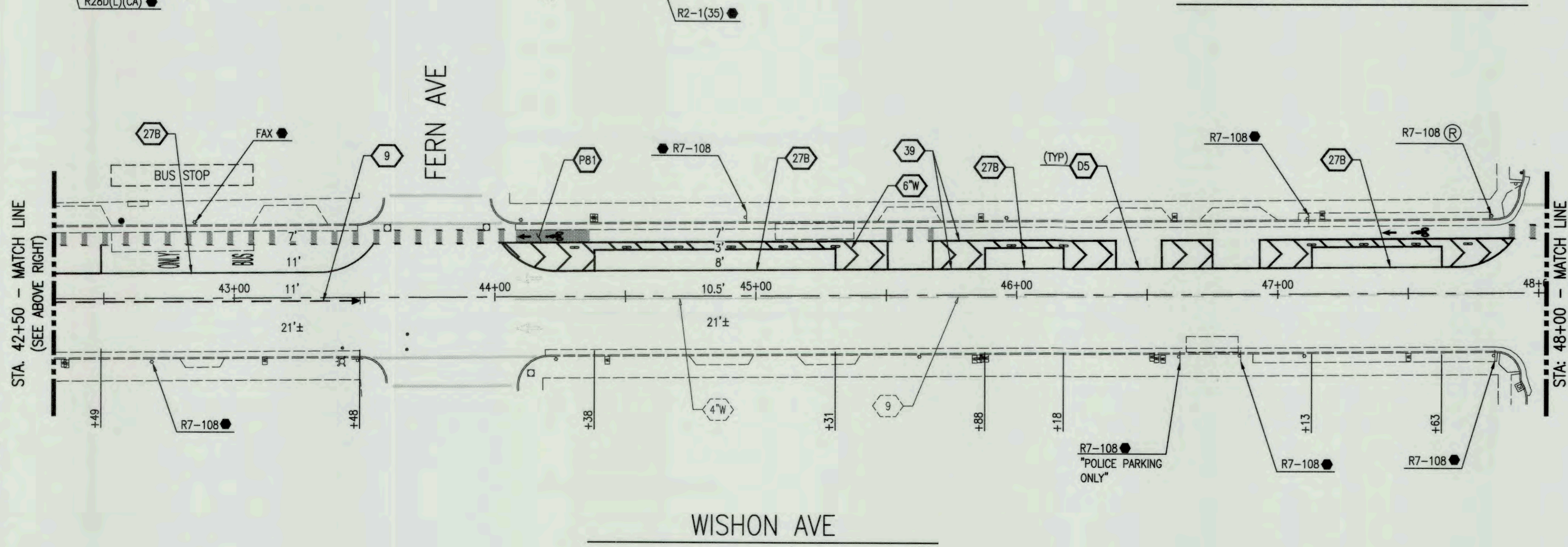
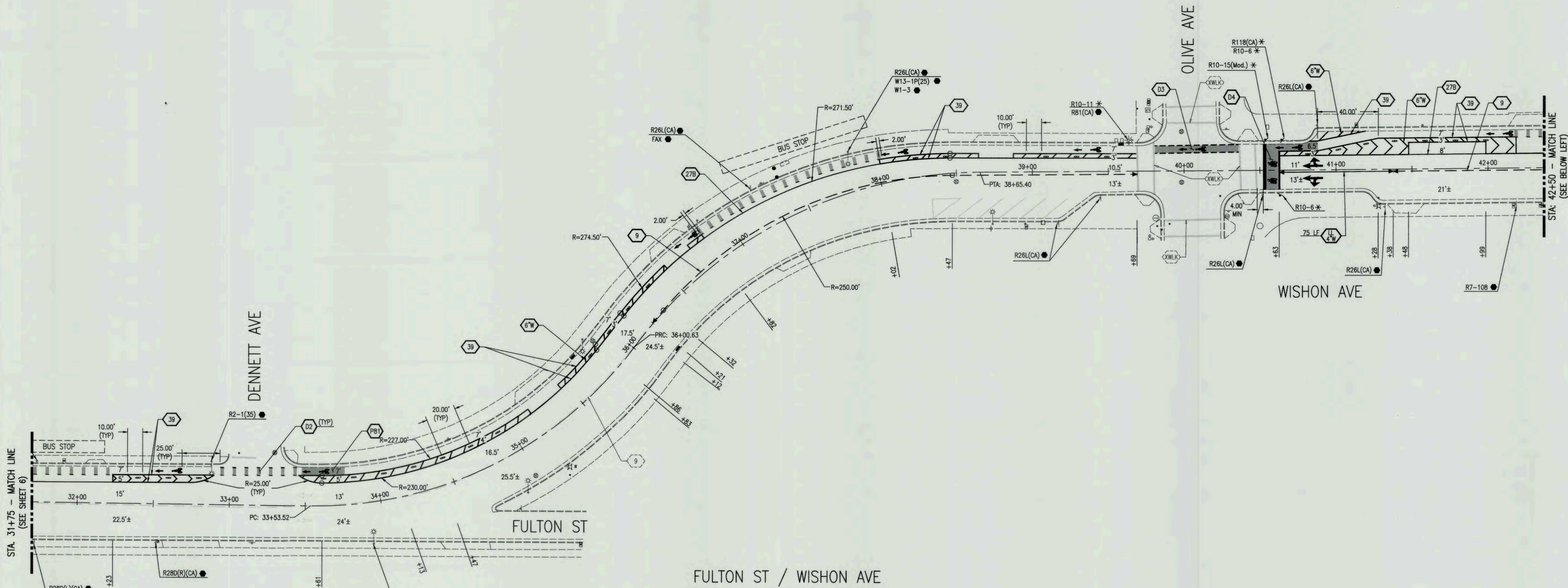
SLURRY SEAL

PW00026 - TOD BLACKSTONE



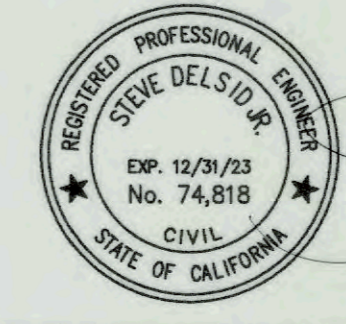
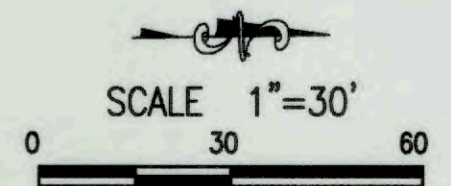






**LEGEND AND SYMBOLS:**

- XX PROPOSED STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
- XX EXISTING STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
- XWLK INSTALL 12" WIDE THERMOPLASTIC CROSSWALK STRIPES AS SHOWN. CROSSWALK WIDTH SHALL BE 11 FT CENTER TO CENTER OF STRIPES, COLOR WHITE OR AS INDICATED ON PLAN PER CALTRANS STD A24F
- W INSTALL #1 OR #2 WIDE WHITE THERMOPLASTIC LEAD LINE
- 6"W 6" WIDE WHITE STRIPING ANGLED @ 45°, SPACING SHALL BE 10' O.C.
- EXISTING SIGN
- PROPOSED SINGLE POST ROADSIDE SIGN. INSTALL SIGN ON LIGHT POST IF SHOWN.
- INSTALL THERMOPLASTIC TYPE I WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- INSTALL THERMOPLASTIC TYPE IV (L OR R) WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- INSTALL THERMOPLASTIC TYPE VII WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- BIKE LANE SYMBOL AND ARROW PER CALTRANS A24C AND A24A
- INSTALL THERMOPLASTIC WHITE LETTERING PER CALTRANS STANDARD PLAN A24D.
- D# INSTALL PAVEMENT MARKINGS PER CORRESPONDING DETAIL NUMBER ON SHEET 6
- PB1 INSTALL PAVEMENT MARKINGS PER CITY STANDARD DRAWING P-81A
- LIMIT OF PAVEMENT DELINEATION
- INSTALL ROADSIDE SIGN
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO REMAIN
- EXISTING SIGN SHALL BE REMOVED AND SALVAGED
- METHYL METHACRYLATE (MMA)-GREEN PER DETAIL 2 ON SHEET 6
- FLEXIBLE DELINEATOR POST PER DETAIL 1 ON SHEET 6
- ANGLE POINT LOCATIONS
- BC, EC, AND PRC LOCATIONS
- BC BEGIN CURVE
- EC END CURVE
- PRC POINT OF REVERSE CURVE



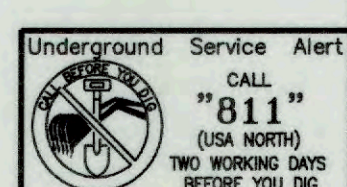
STEVE DELSID, R.C.E. DATE 2/15/22

PW FILE NO. 12691  
 PROJ. ID. PW00926  
 FUND NO. 22056  
 ORG. NO. 188901

**CITY OF FRESNO**  
 FULTON, WISHON, AND VAN NESS  
 CLASS IV BIKE WAY

**DEPARTMENT OF PUBLIC WORKS**

REVIEWED: AD CITY ENG. abb  
 OFFICE ENG. NI SHEET NO. 13  
 DR. BY: DATE: OF 13 SHEETS  
 CH. BY: DATE: AS NOTED 15-E-12692

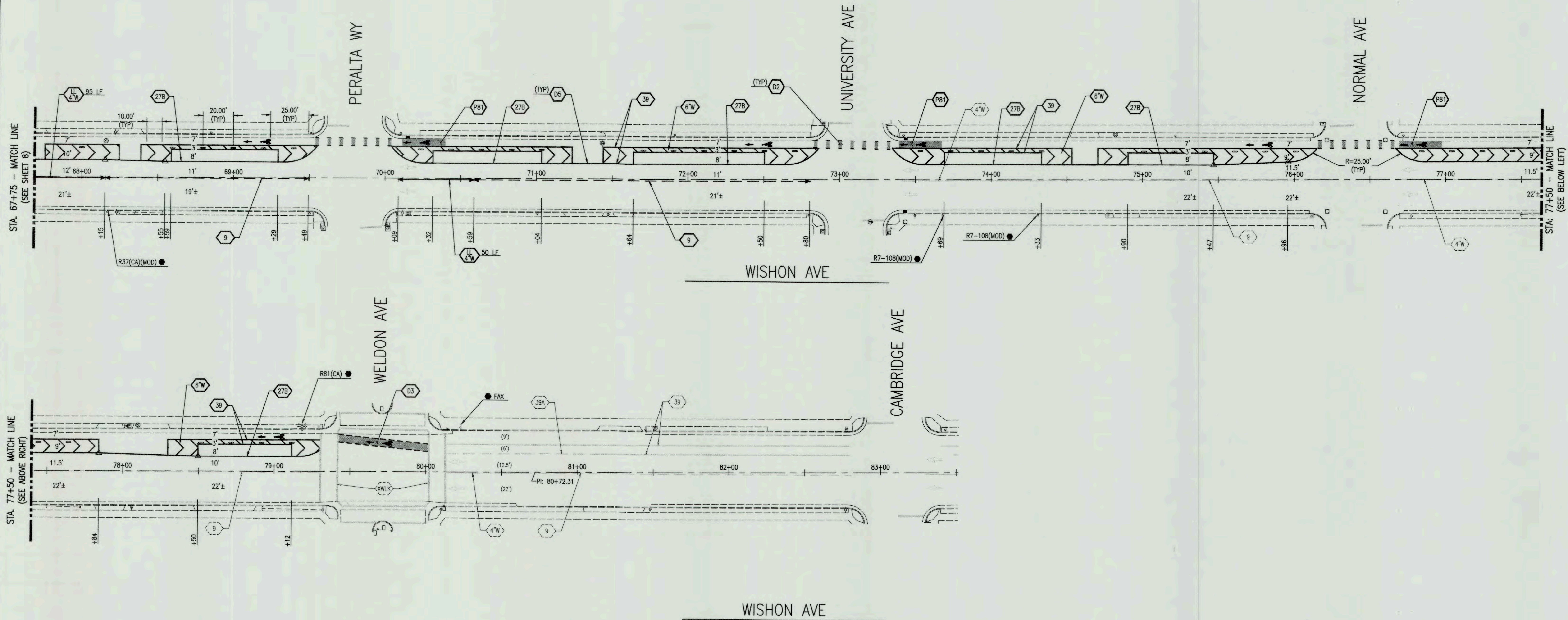


PW00926 - TOD BLACKSTONE



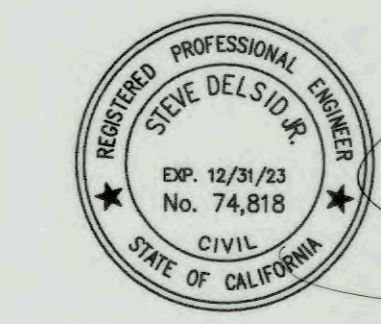
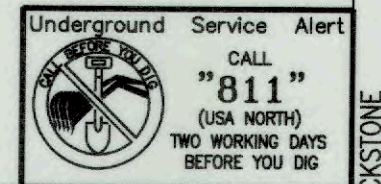
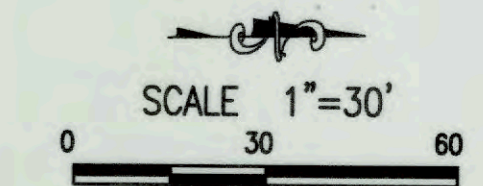






**LEGEND AND SYMBOLS:**

- PROPOSED STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
- EXISTING STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
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- ONLY BUS  
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- INSTALL PAVEMENT MARKINGS PER CORRESPONDING DETAIL NUMBER ON SHEET 6
- INSTALL PAVEMENT MARKINGS PER CITY STANDARD DRAWING P-81A
- LIMIT OF PAVEMENT DELINEATION
- INSTALL ROADSIDE SIGN
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- BC, EC, AND PRC LOCATIONS
- BC BEGIN CURVE
- EC END CURVE
- PRC POINT OF REVERSE CURVE



Steve Delsid  
4/15/22  
STEVE DELSID, R.C.E. DATE

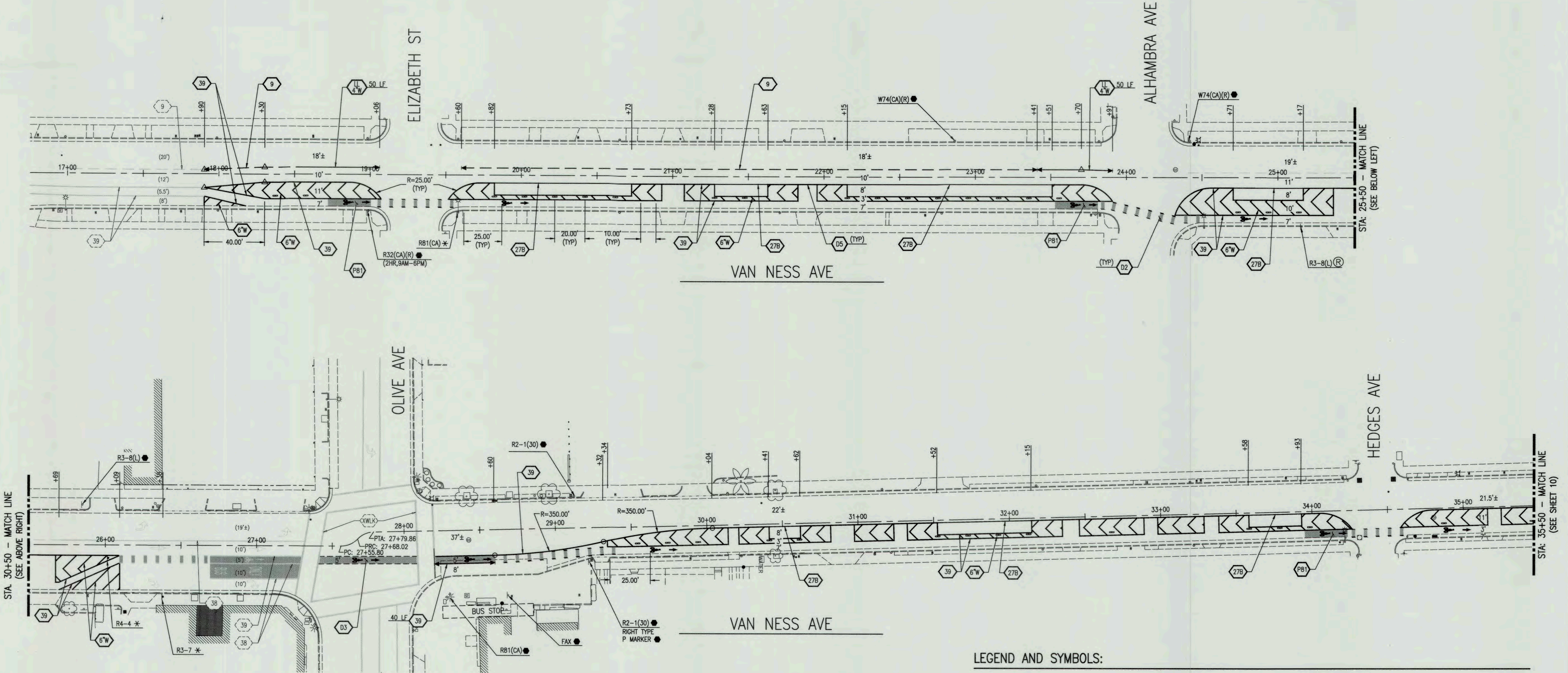
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ORG. NO. 189901	CH. BY: NI	DATE: AS NOTED
REF. & REV. REF&REV	15-E-12694	

**CITY OF FRESNO**  
**FULTON, WISHON, AND VAN NESS**  
**CLASS IV BIKE WAY**  
**DEPARTMENT OF PUBLIC WORKS**  
**CLASS IV SIGNAGE AND STRIPING**  
**WISHON AVE**

K:\02 PROJECTS\PM PROJECTS PUBLIC WORKS\WORKING 100 BLACKSTONE\04 PROJECT DESIGN\02 PLANS\03 PLANS\04 PLANS\05 PLANS\06 PLANS\07 PLANS\08 PLANS\09 PLANS\10 PLANS\11 PLANS\12 PLANS\13 PLANS\14 PLANS\15 PLANS\16 PLANS\17 PLANS\18 PLANS\19 PLANS\20 PLANS\21 PLANS\22 PLANS\23 PLANS\24 PLANS\25 PLANS\26 PLANS\27 PLANS\28 PLANS\29 PLANS\30 PLANS\31 PLANS\32 PLANS\33 PLANS\34 PLANS\35 PLANS\36 PLANS\37 PLANS\38 PLANS\39 PLANS\40 PLANS\41 PLANS\42 PLANS\43 PLANS\44 PLANS\45 PLANS\46 PLANS\47 PLANS\48 PLANS\49 PLANS\50 PLANS\51 PLANS\52 PLANS\53 PLANS\54 PLANS\55 PLANS\56 PLANS\57 PLANS\58 PLANS\59 PLANS\60 PLANS\61 PLANS\62 PLANS\63 PLANS\64 PLANS\65 PLANS\66 PLANS\67 PLANS\68 PLANS\69 PLANS\70 PLANS\71 PLANS\72 PLANS\73 PLANS\74 PLANS\75 PLANS\76 PLANS\77 PLANS\78 PLANS\79 PLANS\80 PLANS\81 PLANS\82 PLANS\83 PLANS\84 PLANS\85 PLANS\86 PLANS\87 PLANS\88 PLANS\89 PLANS\90 PLANS\91 PLANS\92 PLANS\93 PLANS\94 PLANS\95 PLANS\96 PLANS\97 PLANS\98 PLANS\99 PLANS\100 PLANS\101 PLANS\102 PLANS\103 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X:\PROJECTS\PROJECTS (PUBLIC WORKS)\PROJECTS\CLASS IV BIKEWAY\CLASS IV BIKEWAY - PLAN\DWG - PLAN - 15-09-15.DWG - Rev. By: wabham



**LEGEND AND SYMBOLS:**

- PROPOSED STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
- EXISTING STRIPING NUMBER PER CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
- INSTALL 12" WIDE THERMOPLASTIC CROSSWALK STRIPES AS SHOWN. CROSSWALK WIDTH SHALL BE 11 FT CENTER TO CENTER OF STRIPES, COLOR WHITE OR AS INDICATED ON PLAN PER CALTRANS STD A24F
- INSTALL #" OR #'" WIDE WHITE THERMOPLASTIC LEAD LINE
- 6" WIDE WHITE STRIPING @ 45°, SPACING SHALL BE 10' O.C.
- EXISTING SIGN
- PROPOSED SINGLE POST ROADSIDE SIGN. INSTALL SIGN ON LIGHT POST IF SHOWN.
- INSTALL THERMOPLASTIC TYPE I WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- INSTALL THERMOPLASTIC TYPE IV (L OR R) WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- INSTALL THERMOPLASTIC TYPE VII WHITE ARROW CENTERED IN LANE AS SHOWN PER CALTRANS STANDARD PLAN A24A.
- BIKE LANE SYMBOL AND ARROW PER CALTRANS A24C AND A24A
- ONLY BUS  
INSTALL THERMOPLASTIC WHITE LETTERING PER CALTRANS STANDARD PLAN A24D.
- INSTALL PAVEMENT MARKINGS PER CORRESPONDING DETAIL NUMBER ON SHEET 6
- INSTALL PAVEMENT MARKINGS PER CITY STANDARD DRAWING P-81A
- LIMIT OF PAVEMENT DELINEATION
- INSTALL ROADSIDE SIGN
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO REMAIN
- EXISTING SIGN SHALL BE REMOVED AND SALVAGED
- METHYL METHACRYLATE (MMA)-GREEN PER DETAIL 2 ON SHEET 6
- FLEXIBLE DELINEATOR POST PER DETAIL 1 ON SHEET 6
- ANGLE POINT LOCATIONS
- BC, EC, AND PRC LOCATIONS
- BEGIN CURVE
- END CURVE
- POINT OF REVERSE CURVE

SCALE 1"=30'

REGISTERED PROFESSIONAL ENGINEER  
 STEVE DELSID, R.C.E.  
 EXP. 12/31/23  
 No. 74,918  
 CIVIL  
 STATE OF CALIFORNIA

PW FILE NO. 12691  
 PROJ. ID. PW00222  
 FUND NO. 22056  
 ORIG. NO. 162901  
 REF. & REV. REF#REV#

**CITY OF FRESNO**  
**FULTON, WISHON, AND VAN NESS**  
**CLASS IV BIKE WAY**  
 CLASS IV SIGNAGE AND STRIPING  
 VAN NESS AVE

**DEPARTMENT OF PUBLIC WORKS**  
 REVIEWED: [Signature] CITY ENG. [Signature]  
 DR. BY: [Signature] NI SHEET NO. 10  
 CH. BY: [Signature] OF 13 SHEETS  
 DATE: [Signature] AS NOTED 15-E-12695

Underground Service Alert  
 CALL  
 "811"  
 (USA NORTH)  
 TWO WORKING DAYS  
 BEFORE YOU DIG  
 PW00926 - 100 BLACKSTONE











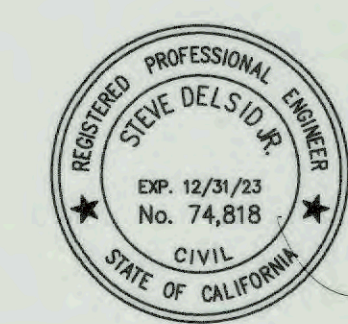
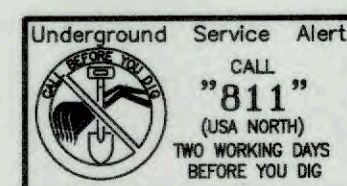
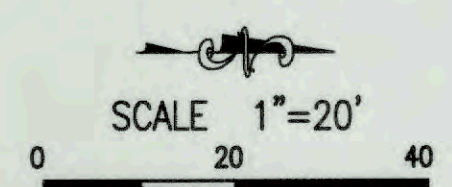
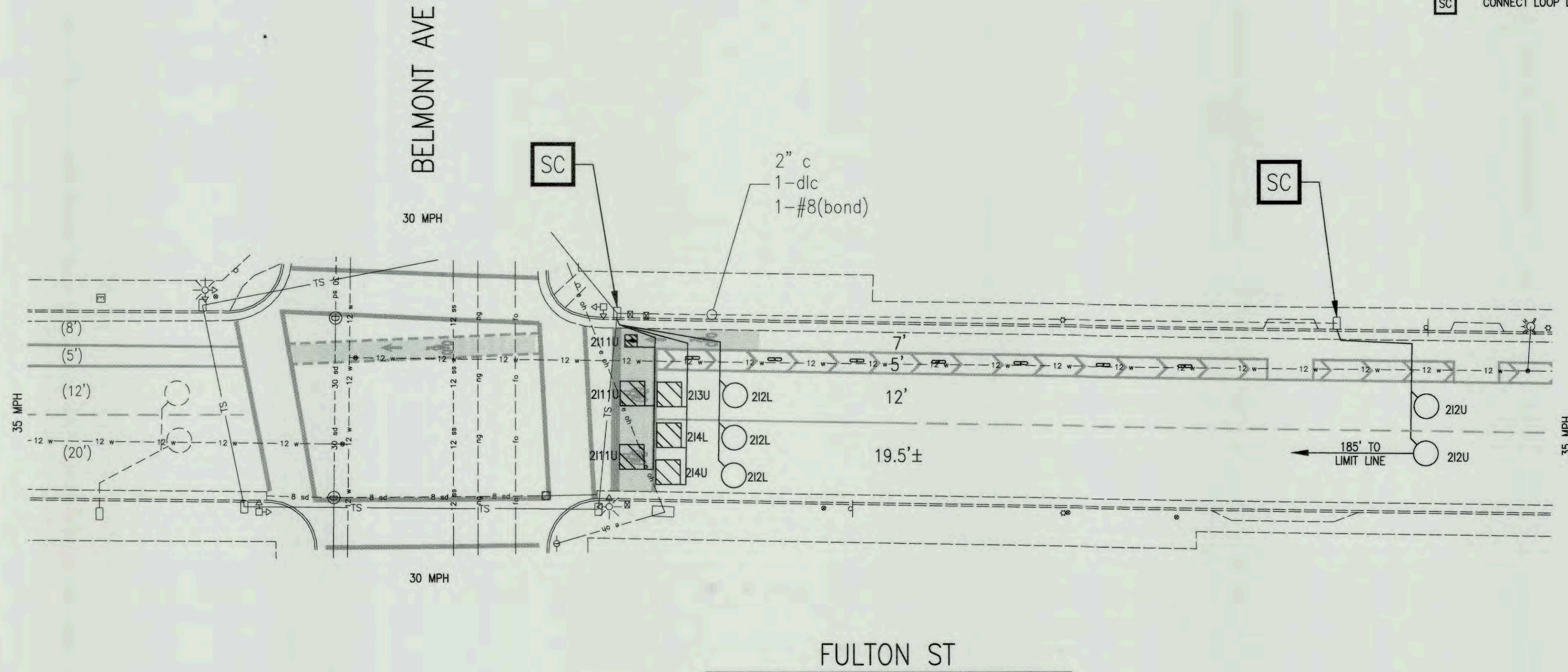
**CONSTRUCTION LEGEND AND SYMBOL:**

- INSTALL CIRCULAR LOOP DETECTOR (TYPE "E")
- INSTALL TYPE "D" LOOP DETECTOR WITH BIKE SYMBOL
- INSTALL TYPE "D" LOOP DETECTOR
- EXISTING TYPE "E" LOOP DETECTOR TO REMAIN
- EXISTING TYPE "D" LOOP DETECTOR TO REMAIN
- CONNECT LOOP DETECTOR(S) TO DLC(S) IN PULL BOX

**GENERAL NOTES:**

**FOR TRAFFIC SIGNAL WORK:**

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, 2015 EDITION, THE LATEST CALTRANS ADOPTED EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA-MUTCD), THE LATEST EDITION OF THE CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS. SIGNAL POLES/STANDARDS FOR 113 KM/H WIND VELOCITY SHALL BE PER THE STATE STANDARD PLANS AND SPECIFICATIONS, DATED JULY 1997.
  2. THESE PLANS ARE ACCURATE FOR ELECTRICAL WORK ONLY.
  3. SCHEDULING OF WORK SHALL CONFORM TO THE PROVISIONS IN SECTION 86-1.07, "SCHEDULING OF WORK" OF THE STATE STANDARD SPECIFICATIONS. PARTICULAR ATTENTION SHALL BE DIRECTED TO "NO ABOVE GROUND WORK, EXCEPT SERVICE EQUIPMENT, SHALL BE PERFORMED UNTIL THE CONTRACTOR HAS ALL MATERIALS ON HAND TO COMPLETE THAT PARTICULAR SIGNAL LOCATION OR LIGHTING CIRCUIT".
  4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, AND SHALL PROVIDE PROTECTION PRIOR TO, DURING AND AFTER TRENCHING, JACKING AND/OR BORING. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), BY CALLING 811, AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK.
  5. CONDUIT INSTALLATION ACROSS ROADWAYS SHALL BE BY JACKING AND DIRECTIONAL DRILLING METHODS UNLESS OTHERWISE NOTED ON THE PLANS.
  6. CONTRACTOR SHALL ARRANGE WITH UTILITY COMPANIES FOR ALL REQUIRED UTILITY REALLOCATIONS, INCLUDING OVERHEAD CONFLICTS.
  7. ALL TRAFFIC SIGNAL AND LIGHTING FACILITIES, INCLUDING CABINETS, STANDARDS, PULL BOXES, CONDUITS AND LOOP DETECTORS, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. AFTER ALL UNDERGROUND UTILITIES ARE MARKED, THE CONTRACTOR SHALL MARK FINAL LOCATIONS IN THE FIELD AND NOTIFY THE ENGINEER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK TO VERIFY THE MARKED LOCATIONS.
  8. WITH EXCEPTION TO A FEDERALLY FUNDED PROJECT, ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY CORPORATION YARD: 3191 W. BELMONT AVENUE, FRESNO. THE CONTRACTOR SHALL NOTIFY THE CITY, CONTACT TRAFFIC SIGNAL SHOP AT (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR SAFELY UNLOADING EQUIPMENT.
  9. PULL BOXES SHALL BE NO. 5(E), UNLESS OTHERWISE NOTED ON THE PLANS. PULL BOXES SHALL NOT BE INSTALLED IN CURB RAMPS. VANDAL RESISTANT LOCKING LIDS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT FINAL INSPECTION. CONTRACTOR SHALL PROVIDE TEMPORARY LIDS DURING CONSTRUCTION. LOCKING LIDS SHALL BE GALVANIZED STEEL DIAMOND PLATE, MINIMUM THICKNESS 3/16", WITH MINIMUM TWO (2) CLAMPING JAWS AND BE KEYPED TO THE CITY OF FRESNO KEY. ALL PULL BOXES SHALL BE AT A MAXIMUM OF 200' APART. CONTRACTOR SHALL TIGHTEN DOWN ALL LOCKING LIDS TO A MINIMUM TORQUE SPEC OF 25 FOOT POUNDS. UPON PROJECT COMPLETION CONTRACTOR SHALL INSTALL LOCKING LID PLUGS.
  10. ALL PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL BE SURROUNDED BY A ONE (1) FOOT WIDE CONCRETE COLLAR, TO A DEPTH EQUAL TO THE PULL BOX AND EXTENSION, PER CITY OF FRESNO SPECIFICATIONS, AND SHALL HAVE A VANDAL RESISTANT (SEE NOTE ABOVE) LOCKING LID INSTALLED. ALL CONDUIT ENTRIES INTO ADVANCE DETECTION, INTERMEDIATE DETECTION, AND STREET LIGHTING PULL BOXES INSTALLED IN NON-CONCRETE AREAS SHALL ENTER THE PULL BOX FROM THE BOTTOM, USING 90 DEGREE ELBOWS AND EXTENDING 3 TO 5 INCHES ABOVE THE FINISHED GROUT.
  11. ALL CONDUITS SHALL HAVE BUSHINGS INSTALLED PRIOR TO INSTALLING CONDUCTORS. STEEL CONDUITS SHALL HAVE LAY IN STYLE LUGS THAT ARE CAST INTEGRAL WITH THE BUSHING.
  12. CONDUIT BENDS OF 90 DEGREES ARE PROHIBITED UNLESS OTHERWISE NOTED OR WRITTEN PERMISSION IS GIVEN BY THE CITY OF FRESNO ENGINEER.
  13. ALL NEUTRAL CONDUCTORS SHALL BE WHITE IN COLOR THROUGHOUT THEIR ENTIRE LENGTH.
  14. TRAFFIC SIGNAL CABLE SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE TERMINAL COMPARTMENTS MOUNTED ON THE POLES. DETECTOR CABLES SHALL NOT BE SPLICED BETWEEN THE CONTROLLER CABINET AND THE PULL BOX ADJACENT TO THE DETECTOR LEAD-IN.
  15. SEAL CONDUIT WITH AN APPROVED DUCT SEAL AFTER ALL CONDUCTORS HAVE BEEN INSTALLED.
  16. SEALANT FOR FILLING THE SAWCUT SLOTS SHALL BE HOT-MELT RUBBERIZED ASPHALT SEALANT PER STATE OF CALIFORNIA SPECIFICATIONS. OR LOOP SEALANT SHALL BE ELASTOMERIC SEALANT 3M, BLACK 5000, OR APPROVED EQUAL.
  17. PEDESTRIAN PUSH BUTTONS SHALL HAVE 2" DIAMETER ACTUATORS AND COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
  18. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. VEHICLE SIGNAL SECTIONS SHALL HAVE 12" (300 mm) DIAMETER LENSES WITH BACKPLATES AND TUNNEL VISORS. ALL VEHICLE AND PEDESTRIAN SIGNAL SECTIONS SHALL HAVE METAL AND RUBBER WASHERS INSTALLED ON THE INSIDE OF THE HEAD.
  19. SAFETY LUMINAIRE SHALL BE LED (EQUAL TO 150W HPS), SEE UPDATED CITY OF FRESNO SPECIFICATIONS FOR SAFETY LUMINAIRE REQUIREMENTS.
  20. PEDESTRIAN SIGNAL UNITS SHALL BE FULL SYMBOL, MUTCD COMPLIANT, LED "COUNTDOWN" TYPE WITH 9 INCH NUMERALS; GELCORE MODEL PS7-CFF1-01A-18, OR APPROVED EQUAL. SIGNAL ALIGNMENT SHALL BE AS DIRECTED BY THE ENGINEER.
  21. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE OPTICOM (GTT) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM (721 TWO DIRECTION DETECTION, SINGLE CHANNEL) IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. EVP DETECTOR UNITS SHALL BE INSTALLED ON SIGNAL MAST ARMS AS SHOWN ON THE PLAN, CENTERED OVER THE NUMBER ONE THROUGH LANE, WITH BRACKETS APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL DELIVER THE MODEL 762 DISCRIMINATORS TO THE CITY CORPORATION YARD AT 2101 "G" STREET, FRESNO, AND NOTIFY THE CITY TRAFFIC SIGNAL SHOP, (559) 621-1312, AT LEAST TWO (2) WORKING DAYS PRIOR TO DELIVERY.
  22. CONTRACTOR SHALL SCHEDULE WITH CONSTRUCTION MANAGEMENT ALL EQUIPMENT DELIVERIES WHICH REQUIRE TESTING BY THE CITY'S TSSL SHOP. EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR ONLY AT A PREARRANGED TIME AND DAY.
  23. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW OVERSIZED STREET NAME SIGNS ON SIGNAL STANDARDS, AS SHOWN ON THE PLAN, PER CITY STANDARD DRAWING P-90. FURNISH AND INSTALL NEW MOUNTING BRACKETS AS NECESSARY. SUBMITTALS SHALL BE APPROVED BY THE CITY PRIOR TO ORDERING.
  24. SIGNS SHALL BE TYPE III OR IV RETROREFLECTIVE SHEETING PER ASTM D4956-09. ALL SIGNS SHALL BE COVERED WITH A TRANSLUCENT ANTI-GRAFFITI FLUOROPOLYMER FILM THAT DOES NOT IMPAIR THE REFLECTIVITY OF THE SIGN.
  25. THE CONTRACTOR SHALL CONTACT THE CITY OF FRESNO TRAFFIC OPERATIONS CENTER SUPERVISOR AT (559) 621-8669 TO OBTAIN I.T.S. EQUIPMENT SPECIFICATIONS PRIOR TO THE COMMENCEMENT OF WORK.
  26. TONEABLE CONDUIT SHALL BE CHECKED FOR CONTINUITY AND BONDED TO EARTH GROUND.
  27. CONDUITS EXITING THE CONTROLLER FOUNDATION AND ENTERING INTO THE CONTROLLER CABINET SHALL BE ALIGNED TO ENTER WITHIN THE TEES SPECIFIED CABINETS WITHOUT ANY MODIFICATIONS TO THE CABINET BASE.
  28. ALL RESURFACING SHALL MATCH EXISTING SURFACES AFTER SIGNAL FACILITIES ARE REMOVED AND/OR RELOCATED.
  29. THE EXISTING TRAFFIC SIGNAL SYSTEM, INCLUDING DETECTION, AND/OR STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
  30. ALL LUMINAIRE CIRCUITS SHALL BE FUSED. THE FUSE SHALL BE LOCATED IN THE LUMINAIRE HOUSING AT EACH POLE (5 AMP KTK FUSE IN TRON HEB TYPE FUSE HOLDER).
  31. THE CONTRACTOR SHALL FURNISH AND INSTALL POLE NUMBERS WHEN PG&E INDICATES THE NUMBER. POLE NUMBERS SHALL BE SHOWN ON THE AS BUILT DRAWINGS.
  32. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESSIBLE (AUDIBLE) PEDESTRIAN SIGNAL (APS) SYSTEM (2-WIRE POLARA Inavigator2 OR APPROVED EQUAL) IN CONFORMANCE WITH THE CITY'S STANDARD SPECIFICATIONS. THE APS SHALL PROVIDE BOTH A VIBRATING ARROW BUTTON AND AUDIBLE SOUNDS DURING THE "WALK" INTERVAL, AS WELL AS A LOCATING TONE DURING THE PEDESTRIAN CLEARANCE AND DON'T WALK INTERVALS. THE APS SYSTEM SHALL MEET CURRENT ADA AND CA-MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSH BUTTONS SHALL HAVE A FOUR FOOT ACCESSIBLE PATH IN FRONT OF THE BUTTON.
- THE APS ICCU-C (INTELLIGENT CENTRAL CONTROL UNIT) SHALL BE SUPPLIED AND BE PLACED IN CABINET INPUT FILE 1-12/-13 WITH THE CARD EDGE PLUGGED INTO 1-13. THE POWER SUPPLY PIGTAIL SHALL BE CUT TO LENGTH TO ELIMINATE EXCESS CABLE, WITH POWER OBTAINED FROM THE PDA T1 TERMINAL STRIP, TERMINALS 1, 3 & 5. CONTRACTOR SHALL PROVIDE TSSL THE LATEST MEANS OF PROGRAMMING THE APS SYSTEM, AND DIGITAL COPIES OF AUDIO FILES.



Steve Delsid 2/15/22  
 STEVE DELSID, R.C.E. DATE

PW FILE NO.	12891
PROJ. ID.	F909248
FUND NO.	74056
ORG. NO.	189901
REF. & REV.	REF&REV

CITY OF FRESNO		DEPARTMENT OF PUBLIC WORKS	
FULTON, WISHON, AND VAN NESS CLASS IV BIKE WAY			
REVIEWED:	OFFICE ENG.	CITY ENG.	
DR. BY:	NT	13	
CH. BY:		OF 13	SHEETS
DATE:			
SCALE:	AS NOTED	4-E-3539	

REVIEWED:	OFFICE ENG.	CITY ENG.	
DR. BY:	NT	13	
CH. BY:		OF 13	SHEETS
DATE:			
SCALE:	AS NOTED	4-E-3539	

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PW0026 - TOD BLACKSTONE