ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	1	11

COUNTY OF SAN LUIS OBISPO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION

APPROVED: 15 JANUARY ,20 16

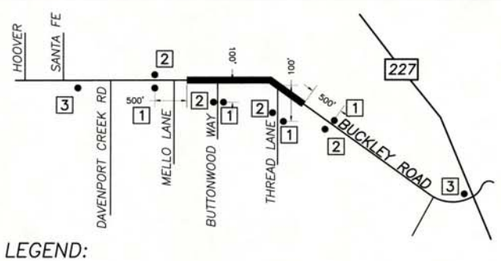
WADE HORTON, DIRECTOR OF PUBLIC WORKS RCE 64,745

PLANS FOR THE CONSTRUCTION OF BUCKLEY ROAD TWO WAY LEFT TURN LANE NEAR SAN LUIS OBISPO, CA.
CONTRACT NO. 300490
FEDERAL-AID PROJECT HSIPL-5949(148)

To Be Supplemented By State Standard Plans Dated 2006.

INDEX OF SHEETS

SHEET NO.	1	TITLE SHEET
SHEET NO.	2	TYPICAL STREET SECTIONS
SHEET NO.	3	RIGHT-OF-WAY AND SURVEY CONTROL
SHEET NO.	4	PAVEMENT DEMOLITION PLAN
SHEET NO.	5	CONSTRUCTION PLAN
SHEET NO.	6	PLAN AND PROFILE – STA. 143+00 TO 149+75
SHEET NO.	7	PLAN AND PROFILE – STA. 149+75 TO 156+25
SHEET NO.	8	PLAN AND PROFILE – STA. 156+25 TO 163+00
SHEET NO.	9	ROAD SIGNAGE AND STRIPING PLAN
SHEET NO.	10	COMPOSITE UTILITY PLAN
SHEET NO.	11	CONSTRUCTION DETAILS



LEGEND:

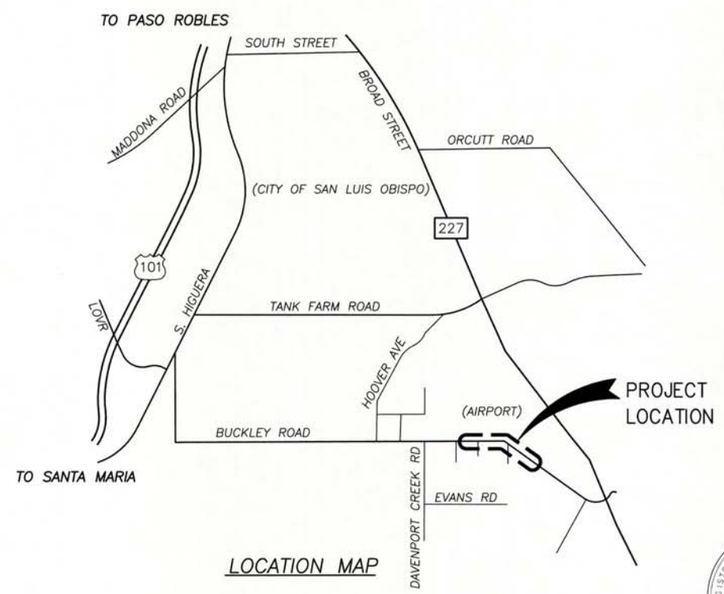
No.	Type	Size	Message	Quantity
1	W20-1	48"X48"	"ROAD WORK AHEAD"	4
2	G20-2	48"x18"	"END ROAD WORK"	4
3	PMCS	–	AS DIRECTED BY ENGINEER	2

NOTES:

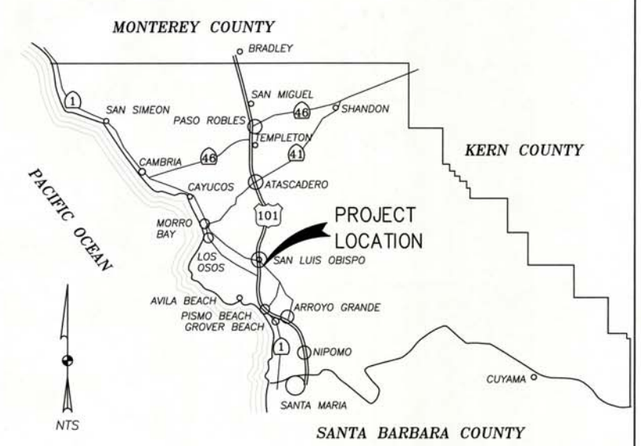
All Signs Shall Be Stationary Mounted on 4x4 Wood Posts, Unless Noted Otherwise or as directed by the Engineer.

All Construction Signs Shall be Placed Approximately 4' off the Edge of Roadway, the Exact Location and Position of Signs Shall be Determined by the Engineer.

CONSTRUCTION AREA SIGN PLAN



LOCATION MAP

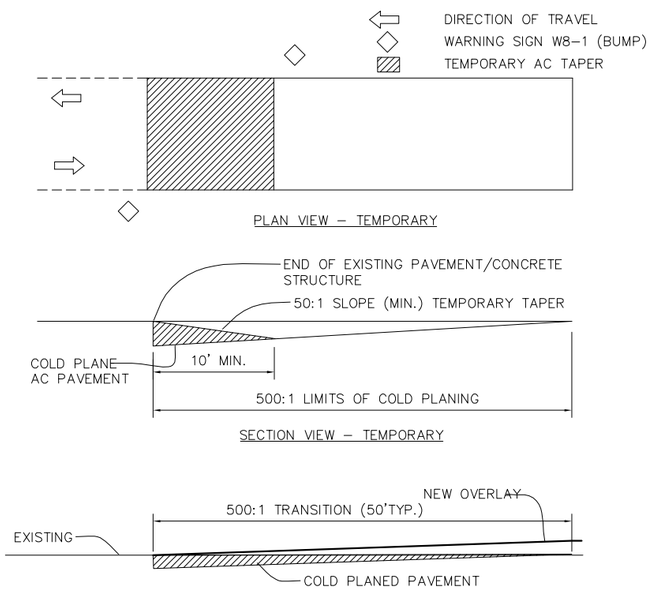


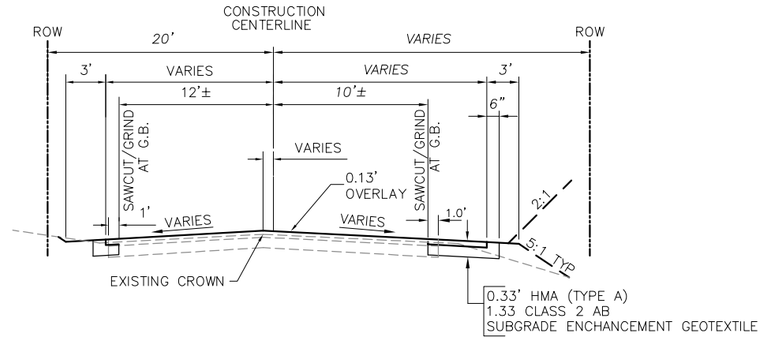
VICINITY MAP

REGISTERED PROFESSIONAL ENGINEER MARK K. DAVIS PE. NO. 63477 CIVIL STATE OF CALIFORNIA

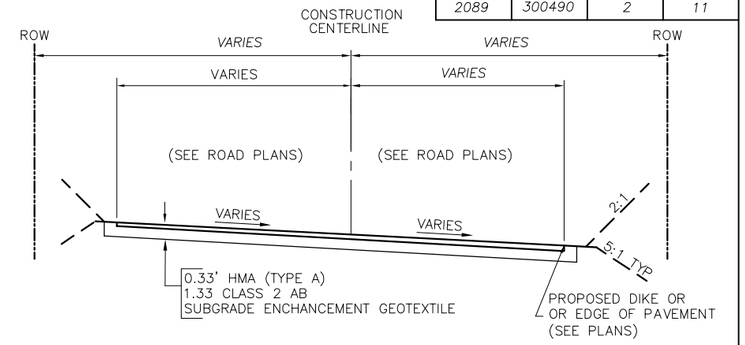
BUCKLEY ROAD TWO WAY LEFT TURN LANE					
TITLE SHEET					
NEAR SAN LUIS OBISPO, CA.					
Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	2	11

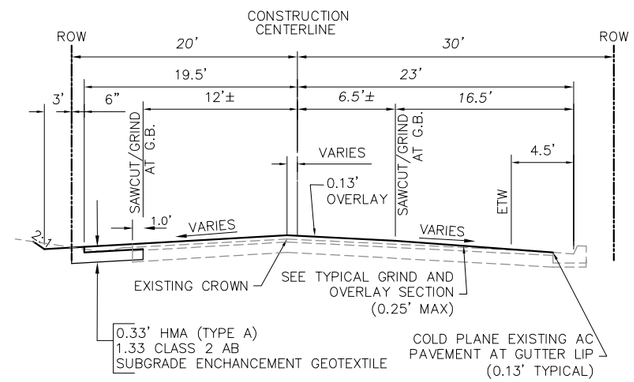




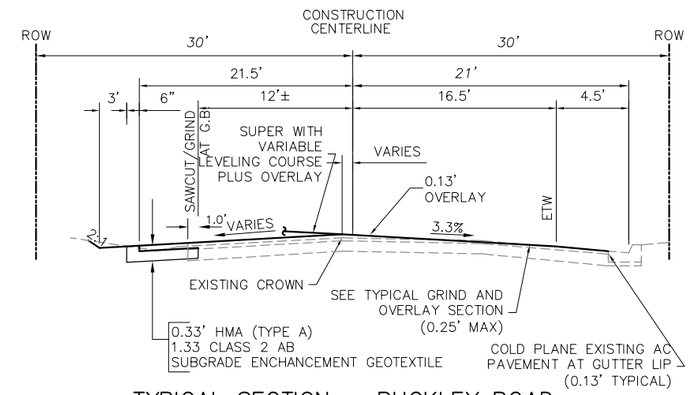
TYPICAL SECTION – BUCKLEY ROAD
*STA 143+13± TO 147+48±
N.T.S.



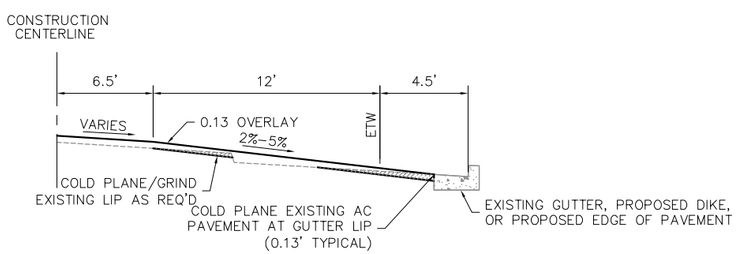
TYPICAL SECTION – BUCKLEY ROAD
*STA 152+85± TO 158+04±
N.T.S.



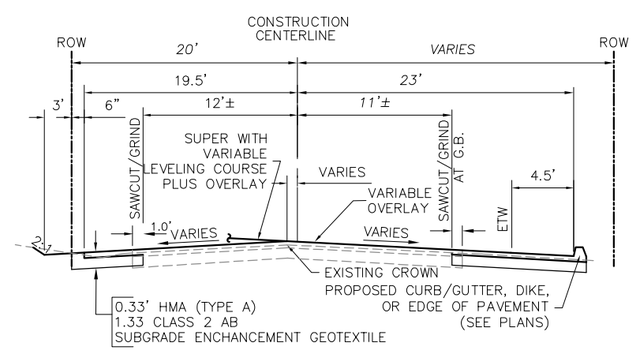
TYPICAL SECTION – BUCKLEY ROAD
*STA 147+48± TO 150+12±
N.T.S.



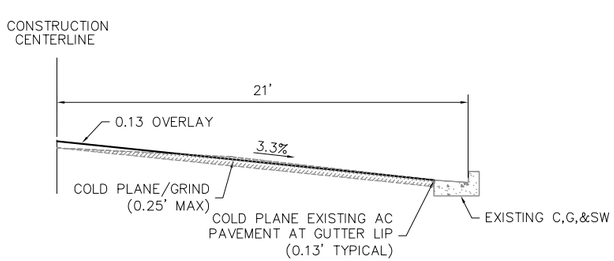
TYPICAL SECTION – BUCKLEY ROAD
*STA 158+04± TO 162+30±
N.T.S.



TYPICAL GRIND AND OVERLAY SECTION
*STA 147+48± TO 150+12±
N.T.S.



TYPICAL SECTION – BUCKLEY ROAD
*STA 150+12± TO 152+85±
N.T.S.



TYPICAL GRIND AND OVERLAY SECTION
*STA 158+04± TO 162+30±
N.T.S.

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR LOCATIONS OF MBGR AND DIKE, SEE LAYOUTS.
4. FOR LOCATIONS OF COLD PLANE AC PAVEMENT SEE PLAN AND PROFILES.

ABBREVIATIONS:

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
ADT	AVERAGE DAILY TRIPS
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
EC	END CURVE
EVC	END VERTICAL CURVE
EP	EDGE OF PAVEMENT
EX	EXISTING
FO	FIBER OPTIC
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHALENE PIPE
HMA	HOT MIX ASPHALT
INV	INVERT
LT	LEFT
NB	NORTH BOUND
NTS	NOT TO SCALE
OSD	OVERSIDE DRAIN
OS	OFFSET
PL	PROPERTY LINE
ROW	RIGHT–OF–WAY
RT	RIGHT
SB	SOUTHBOUND
STA	STATION
STD	STANDARD
TI	TRAFFIC INDEX
TG	TOP OF GRATE
TW	TOP OF WALL
TYP	TYPICAL

REGISTERED PROFESSIONAL ENGINEER
MARK K. DAVIS
PE. NO. 63477
CIVIL
STATE OF CALIFORNIA

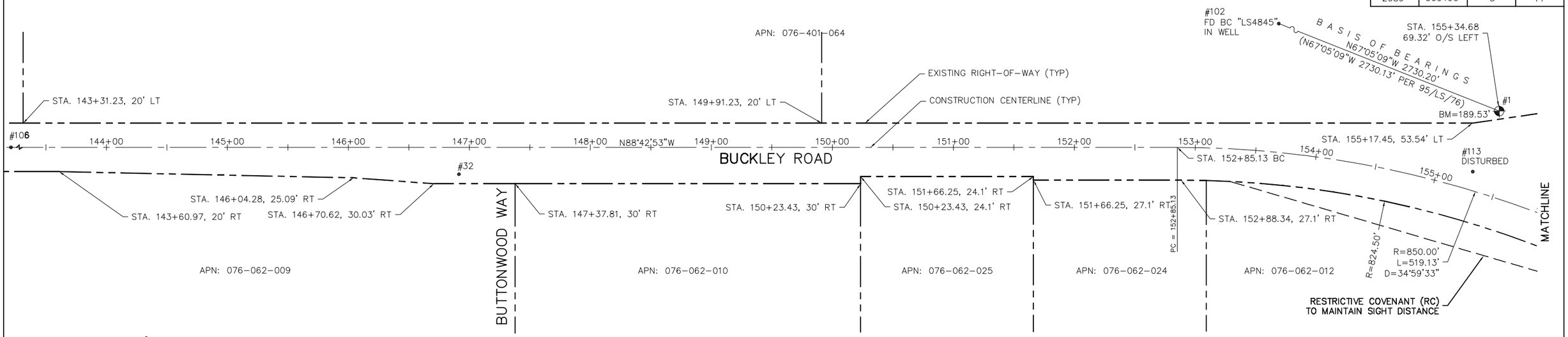
BUCKLEY ROAD TWO WAY LEFT TURN LANE

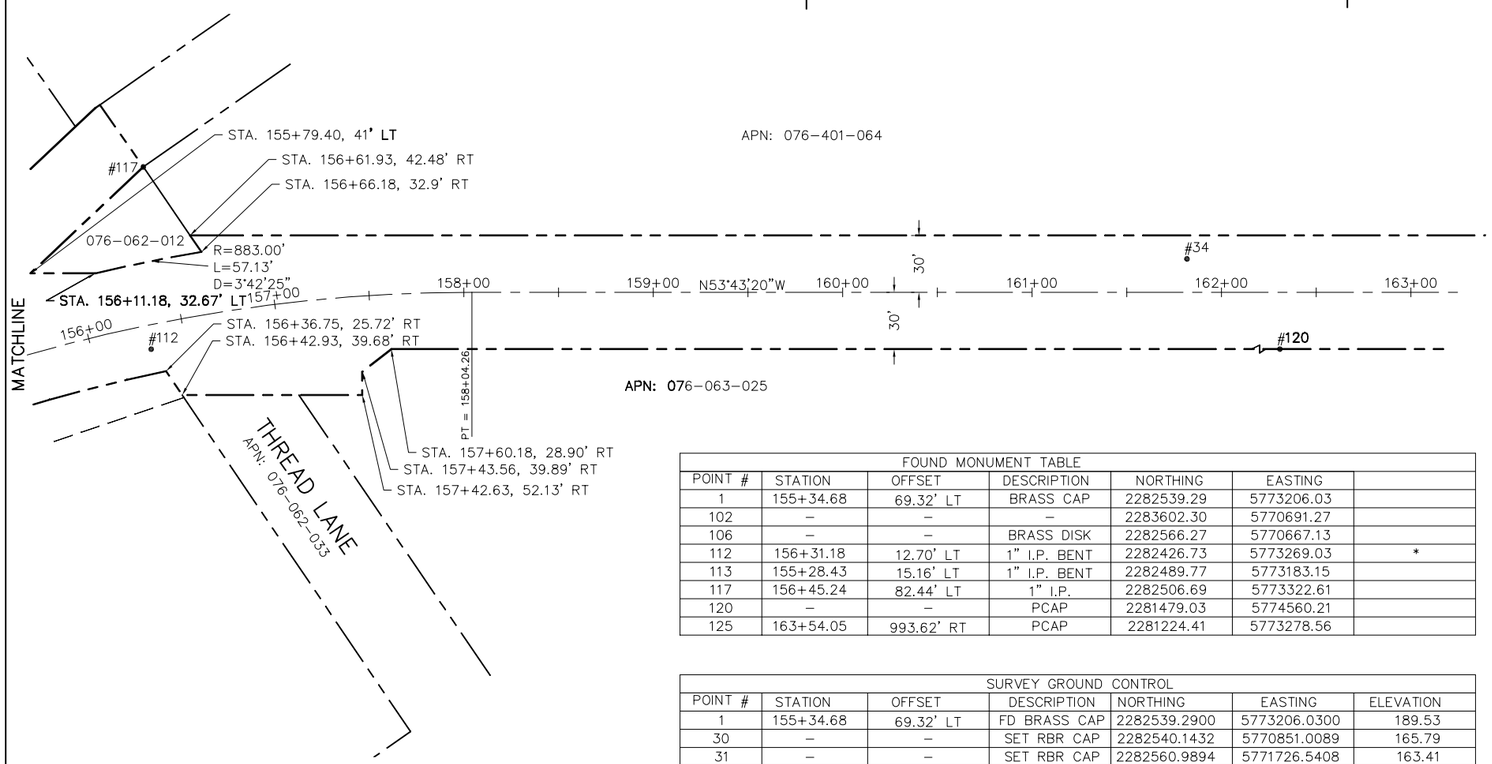
TYPICAL STREET SECTIONS

NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	3	11





ROAD R/W RE-ESTABLISHMENT NOTES:

1. HELD FOUND BRASS DISC (PT. # 106) FOR CENTERLINE INTERSECTION BUCKLEY ROAD AND DAVENPORT CREEK ROAD.

2. HELD FOUND 1" IP (PT. # 117) FOR EASTERLY PRODUCTION OF CENTERLINE OF BUCKLEY ROAD AND NORTH 1/4 CORNER SECTION 13. THIS POINT IS ALSO ACCEPTED AS BEING ON THE SOUTHERLY R/W LINE OF THE ORIGINAL 40' WIDE COUNTY ROAD AND DESIGNATED AS "A.1" ON 2/LS/85.

3. HELD THE FOUND PLASTIC CAP AND REBAR (PT. #120) FOR BEING ON THE SOUTHERLY R/W LINE OF 60' WIDE BUCKLEY ROAD.

4. HELD THE FOUND 1" IP (PT. #112) FOR BEING ON THE SOUTHERLY LINE OF 40' WIDE BUCKLEY ROAD AS SHOWN ON 9/LS/63.

5. HELD THE FOUND PLASTIC CAP AND REBAR (PT. #125) FOR MARKING THE SOUTHWEST CORNER OF PARCEL 1 OF 45/PM/77 AND THE NORTH-SOUTH 1/4 SECTION LINE.

6. THE ANGLE POINT IN THE 40' WIDE BUCKLEY ROAD SOUTHERLY R/W LINE (NOT SHOWN) WAS RE-ESTABLISHED BY B-B INTX. MAINTAINING A 20' WIDE HALF WIDTH OFFSET FROM A LINE 106 TO 117 AND ON A PRODUCTION OF LINE 120 TO 112.

7. CORNER DESIGNATION "A.2" (NOT SHOWN) PER 2/LS/85 WAS RE-ESTABLISHED BY B-B INTX. HOLDING 117 TO 125 AND 120 TO 112.

8. THE ORIGINAL 40' WIDE COUNTY ROAD RIGHT OF WAY WAS RE-ESTABLISHED BY HOLDING CALCULATED ANGLES AND DISTANCES PER 2/LS/85 AND POSITIONS RE-ESTABLISHED AT "A.1" AND "A.2".

9. THE WESTERLY ABANDONMENT LINE OF THE ORIGINAL COUNTY ROAD WAS RE-ESTABLISHED BY HOLDING RECORD ANGLES CALCULATED FROM THE ROAD ABANDONMENT DOCUMENT AND POSITIONS "A.1" AND "A.2".

10. THE NORTHERLY R/W OF BUCKLEY ROAD LYING EASTERLY OF THE ANGLE POINT WAS RE-ESTABLISHED HOLDING A 40' WIDTH PER 9/LS/63 AND OFFSET FROM 112 TO 120.

11. R/W LINES WERE EXTENDED AND OR SHORTENED SO AS TO BEGIN AND END IN SECTIONAL LINES AND R/W LINES MAINTAINING RECORD WIDTHS.

BENCHMARK: BEING THE FOUND BRASS CAP STAMPED "SLO COUNTY HPO" P.I.D. #AA4511 PACS (PRIMARY AIRPORT CONTROL STATION) DESIGNATION SBP C PER NGS DATA SHEET AND HAVING A NAVD 88 ELEVATION OF 189.53'

BASIS OF BEARINGS: BEING THE LINE BETWEEN THE FOUND MONUMENTS AS SHOWN HEREON AND NOTED AS THE "TIE LINE ONLY" ON 95/LS/76

FOUND MONUMENT TABLE

POINT #	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	
1	155+34.68	69.32' LT	BRASS CAP	2282539.29	5773206.03	
102	–	–	–	2283602.30	5770691.27	
106	–	–	BRASS DISK	2282566.27	5770667.13	
112	156+31.18	12.70' LT	1" I.P. BENT	2282426.73	5773269.03	*
113	155+28.43	15.16' LT	1" I.P. BENT	2282489.77	5773183.15	
117	156+45.24	82.44' LT	1" I.P.	2282506.69	5773322.61	
120	–	–	PCAP	2281479.03	5774560.21	
125	163+54.05	993.62' RT	PCAP	2281224.41	5773278.56	

SURVEY GROUND CONTROL

POINT #	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	155+34.68	69.32' LT	FD BRASS CAP	2282539.2900	5773206.0300	189.53
30	–	–	SET RBR CAP	2282540.1432	5770851.0089	165.79
31	–	–	SET RBR CAP	2282560.9894	5771726.5408	163.41
32	146+91.36	22.15' RT	SET RBR CAP	2282506.4594	5772345.2690	174.81
34	161+81.74	17.63' LT	SET RBR CAP	2282141.5855	5773738.0056	182.88
36	165+89.85	26.59' RT	SET PK	2281864.4584	5774040.8423	185.54

* RE-SET SURVEY MARKER IF DESTROYED BY CONSTRUCTION

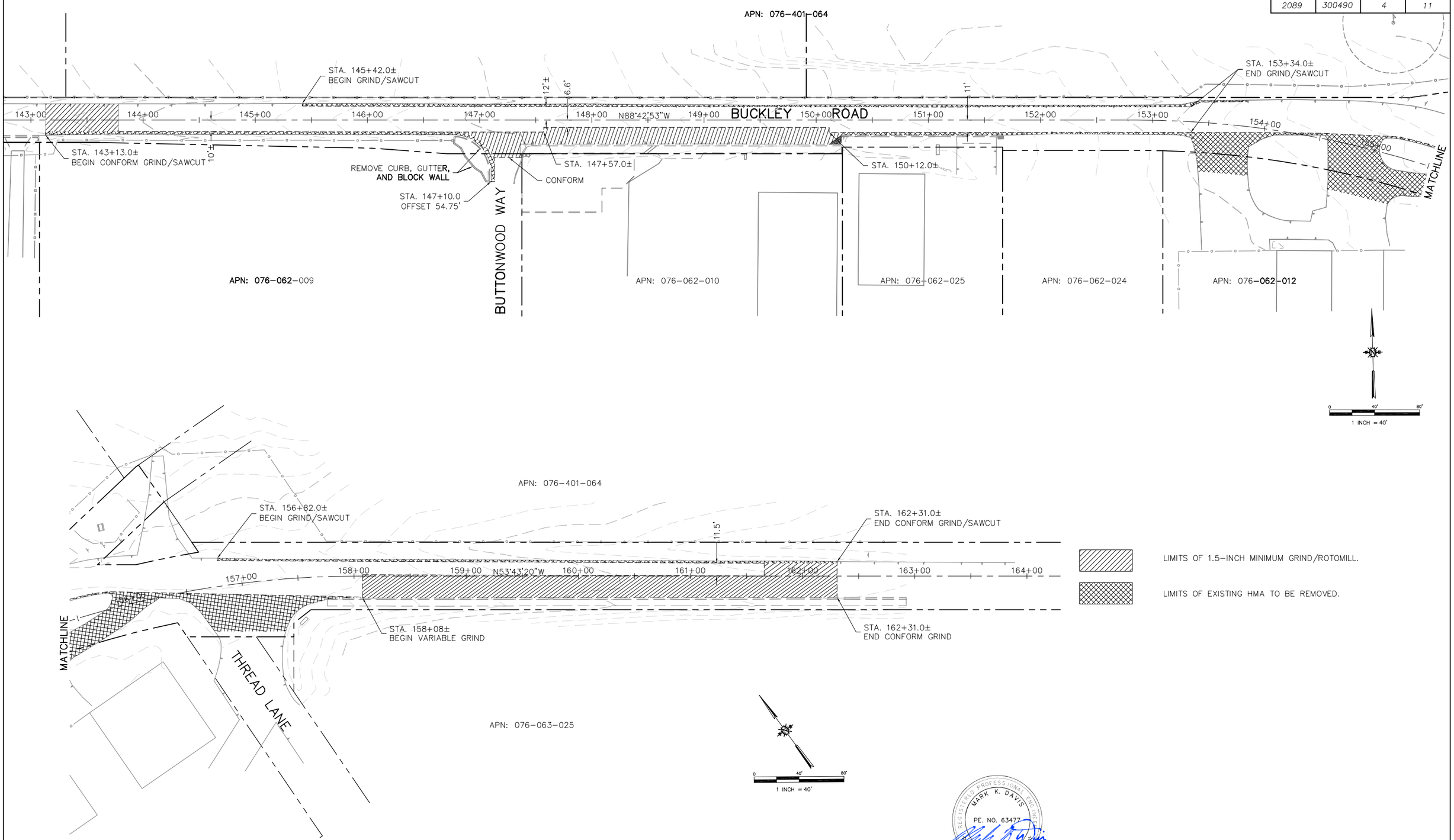
0 40' 80'
1 INCH = 40'

LICENSED LAND SURVEYOR
JOSEPH THOMAS MORRIS
NO. 6192
STATE OF CALIFORNIA

BUCKLEY ROAD TWO WAY LEFT TURN LANE
RIGHT-OF-WAY AND SURVEY CONTROL
NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

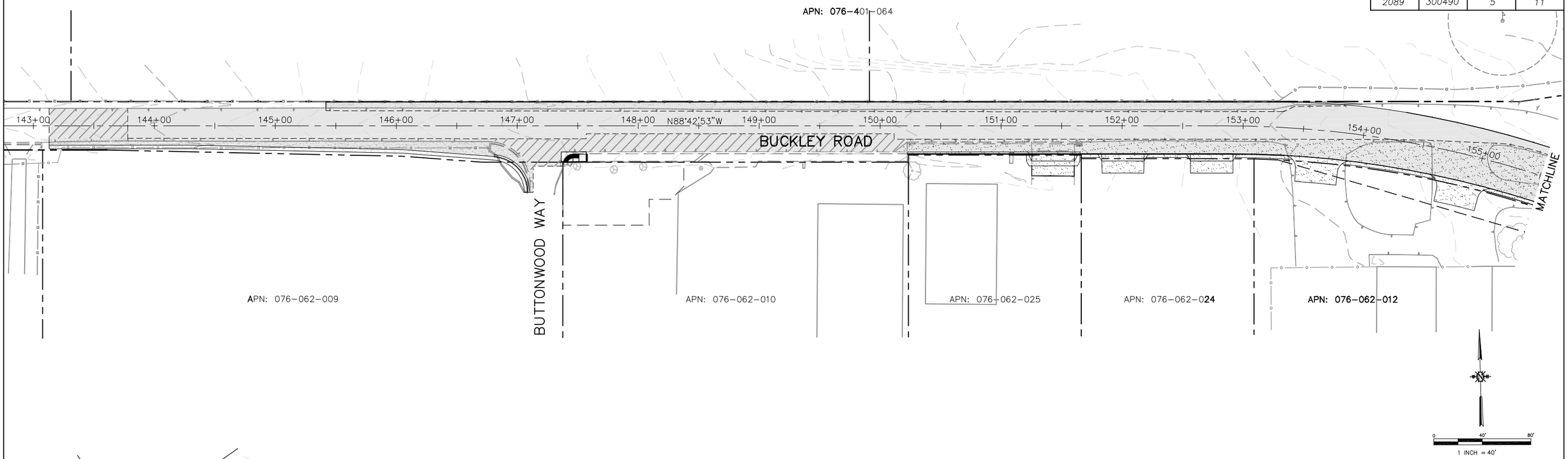
ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	4	11

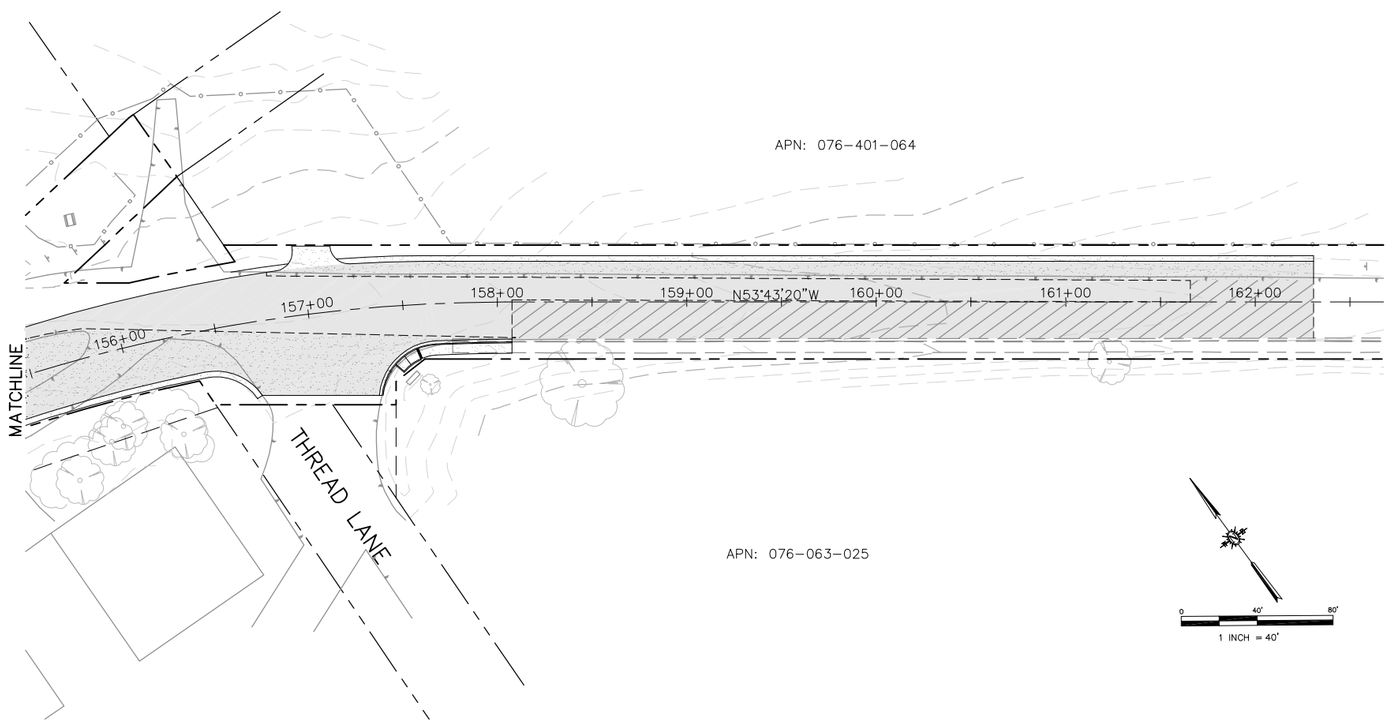


REGISTERED PROFESSIONAL ENGINEER
MARK K. DAVIS
PE. NO. 63477
EXP. 6/30/16
STATE OF CALIFORNIA

BUCKLEY ROAD TWO WAY LEFT TURN LANE					
PAVEMENT DEMOLITION PLAN					
NEAR SAN LUIS OBISPO, CA.					
Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	5	11





LIMITS OF HMA OVERLAY (SEE SHEET 2 FOR LEVELING COURSE LIMITS)

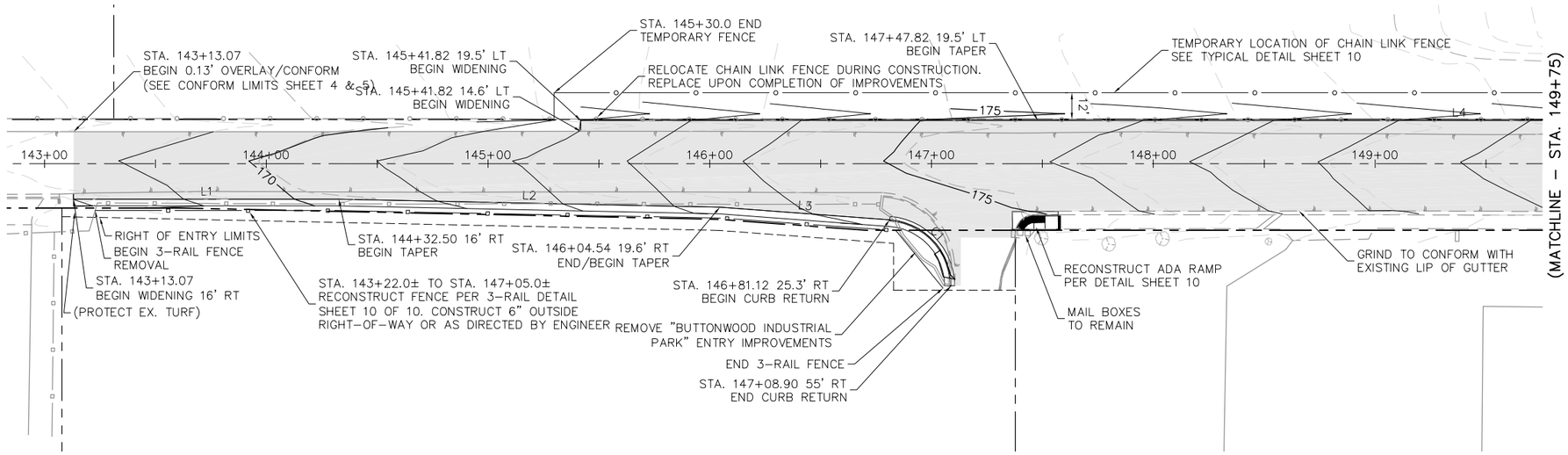
LIMITS OF NEW/PROPOSED STRUCTURAL SECTIONS
(I.E. SUBGRADE ENHANCEMENT FABRIC, CLASS II BASE, AND HMA OR C,G,&SW)

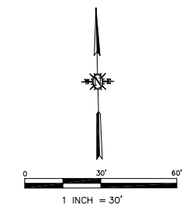
LIMITS OF 1.5-INCH MIN. GRIND/ROTOMILL

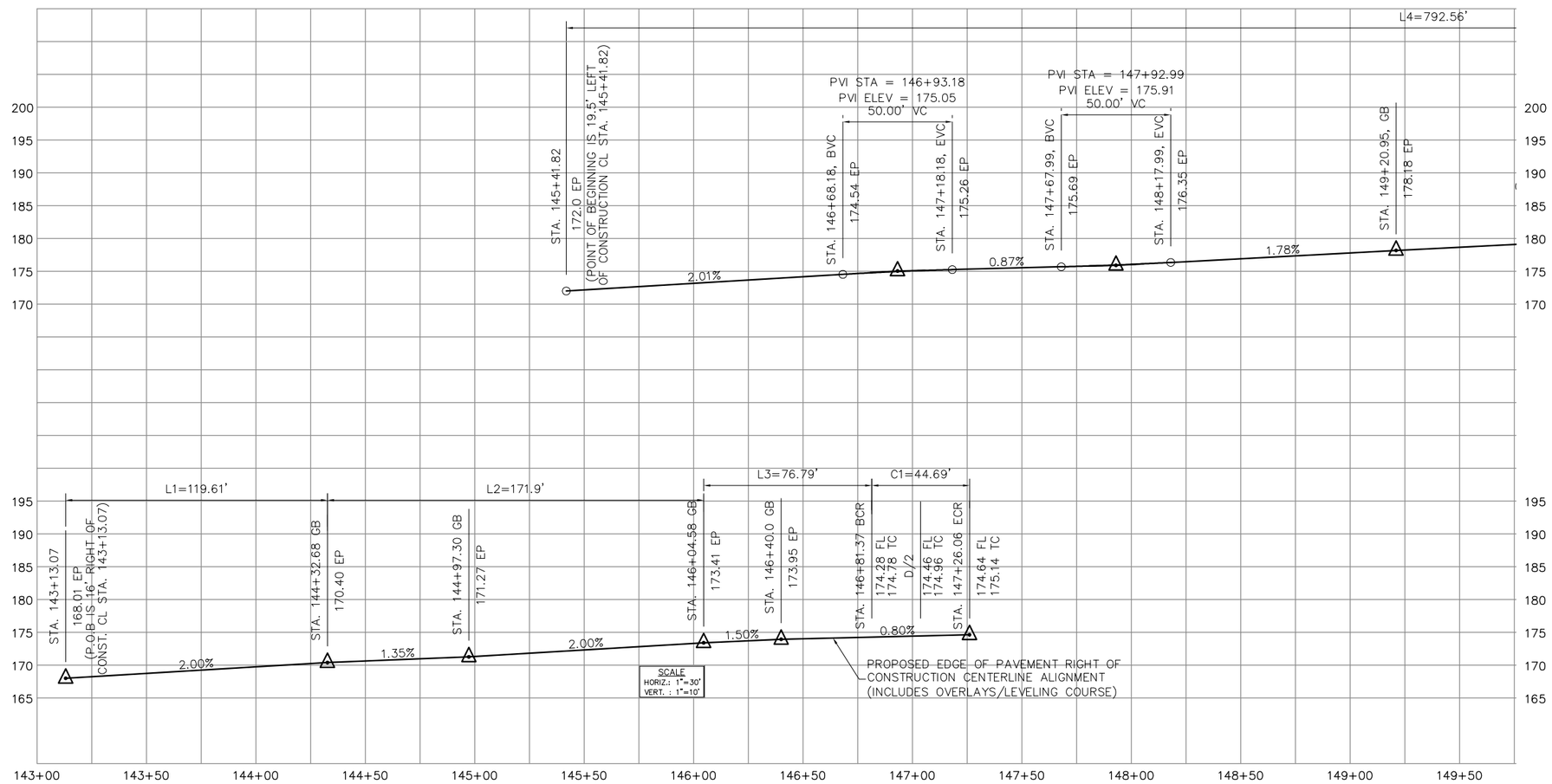
REGISTERED PROFESSIONAL ENGINEER
MARK K. DAVIS
PE. NO. 63477
CIVIL
STATE OF CALIFORNIA

BUCKLEY ROAD TWO WAY LEFT TURN LANE					
CONSTRUCTION PLAN					
NEAR SAN LUIS OBISPO, CA.					
Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	6	11





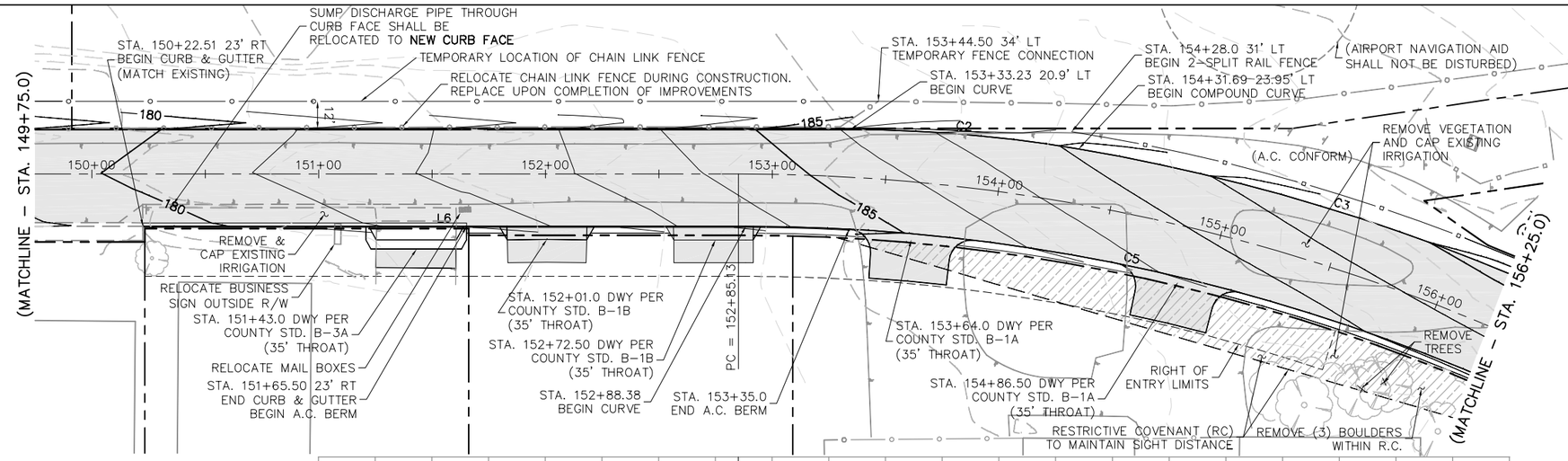


LINE TABLE		
LINE	LENGTH	BEARING
L1	119.61	S88°42'53"E
L2	171.90	S87°30'56"E
L3	76.79	S84°27'45"E
L4	792.56	S88°42'53"E
L5	469.64	S53°43'20"E
L6	265.78	S88°42'53"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	44.69	30.00	85°20'55"
C2	101.17	600.00	9°39'39"
C3	238.00	875.00	15°35'03"
C4	102.07	600.00	9°44'51"
C5	342.73	828.25	23°42'33"
C6	34.67	30.00	66°12'44"
C7	43.02	29.74	82°52'15"
C8	40.12	1206.28	1°54'20"

BUCKLEY ROAD TWO WAY LEFT TURN LANE					
PLAN AND PROFILE					
NEAR SAN LUIS OBISPO, CA.					
Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	7	11



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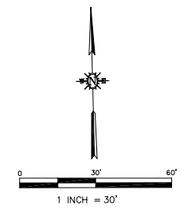
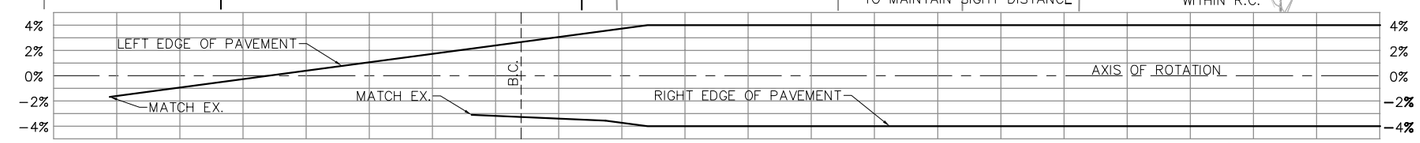
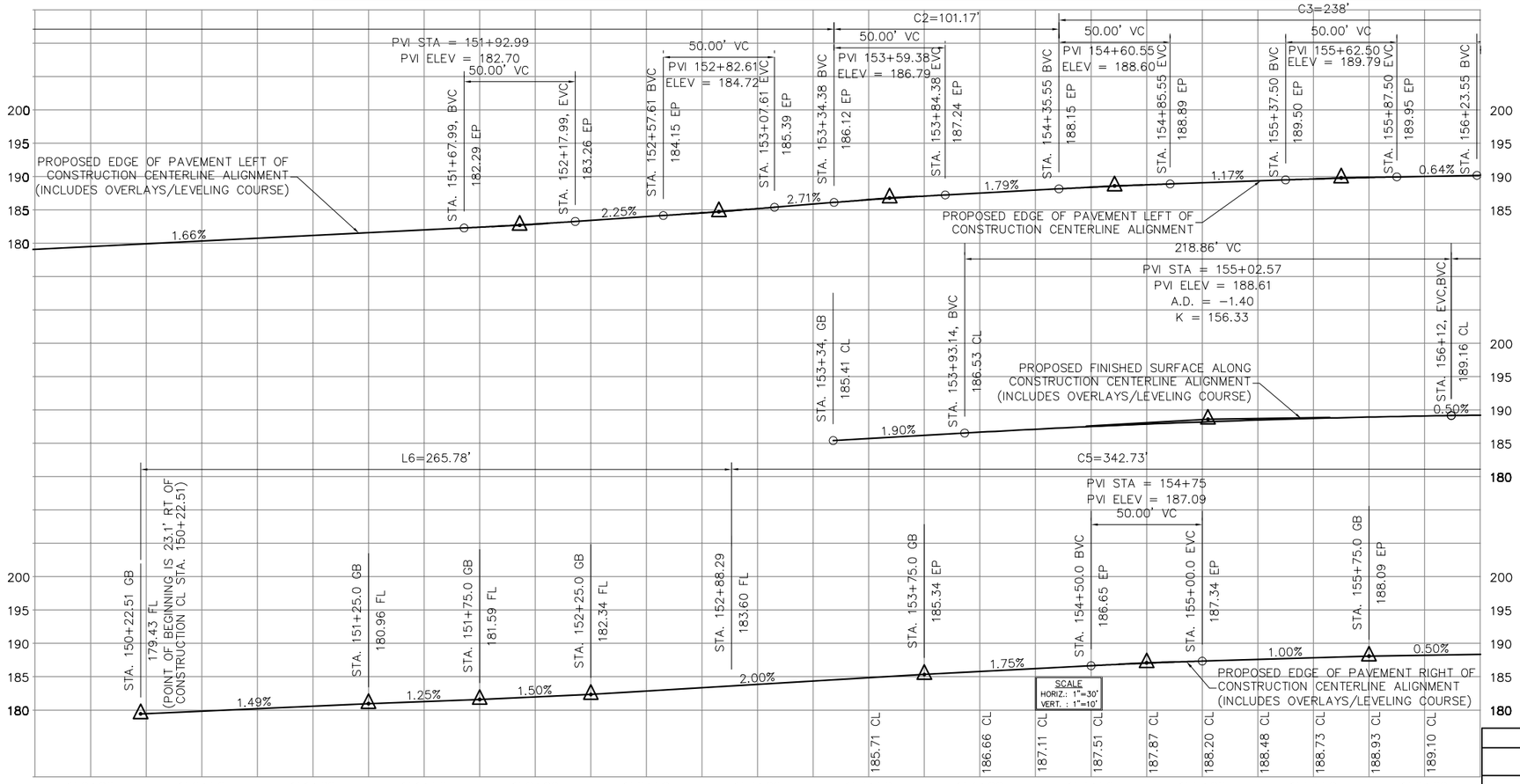






RESTRICTIVE COVENANT (RC) LIMITS TO MAINTAIN SIGHT DISTANCE

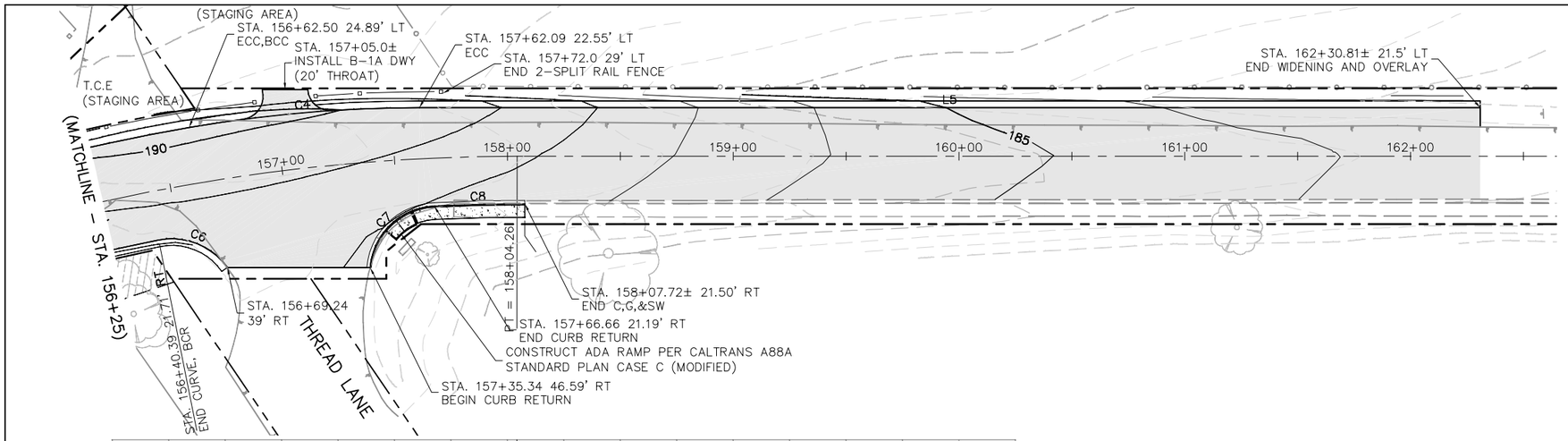
BUCKLEY ROAD TWO WAY LEFT TURN LANE

PLAN AND PROFILE

NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	8	11



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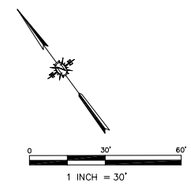
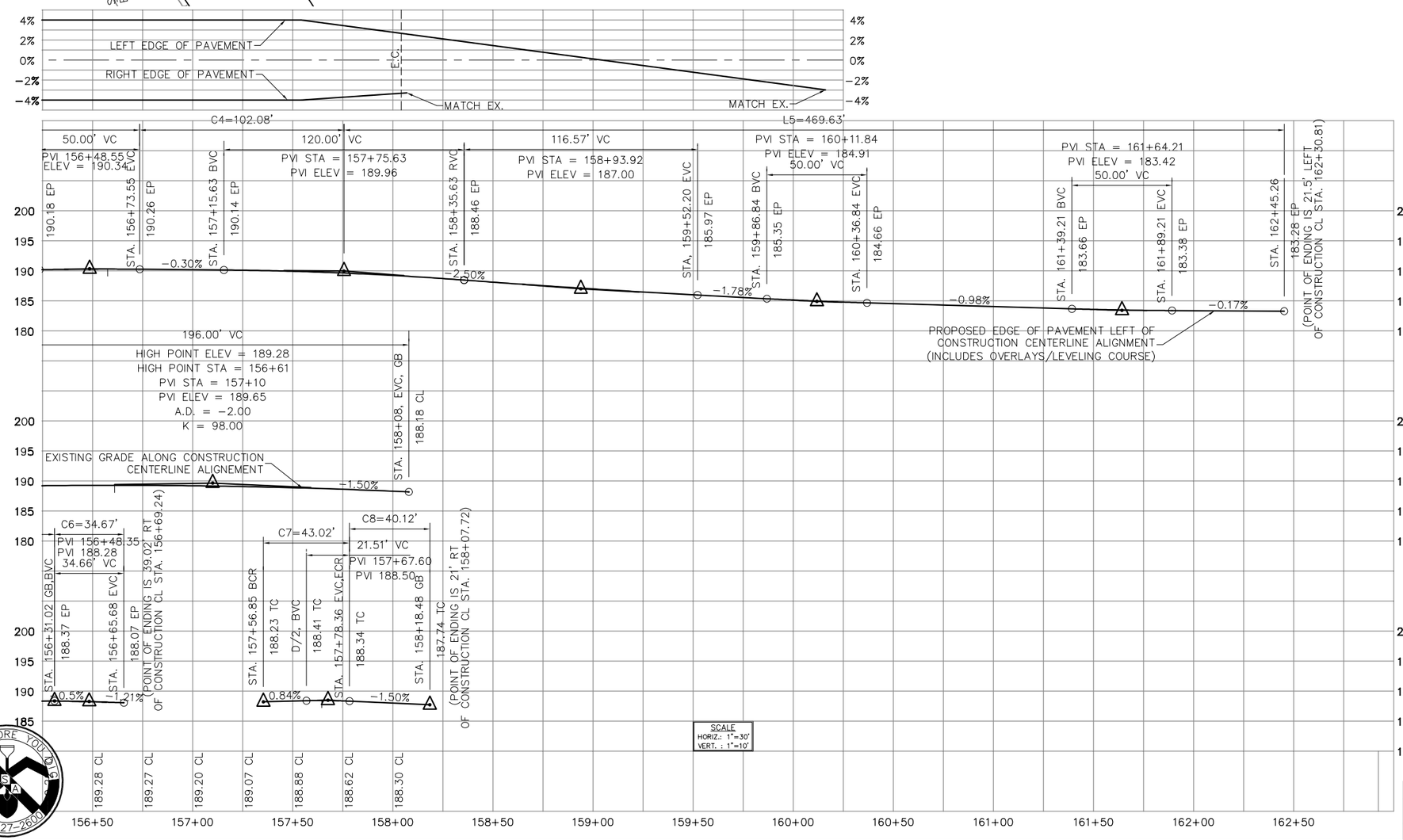
C8	40.12	1206.28	1°54'20"





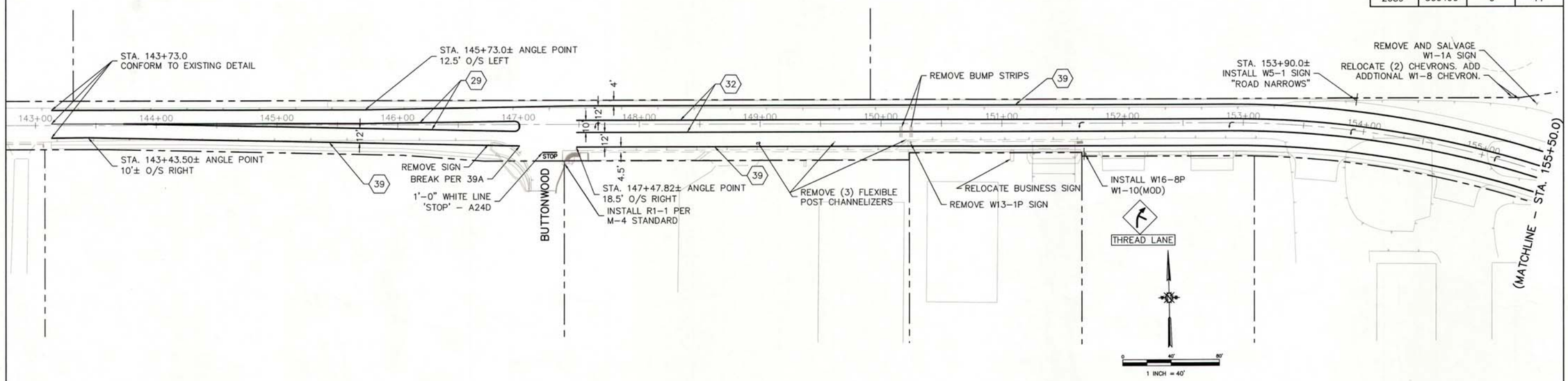
BUCKLEY ROAD TWO WAY LEFT TURN LANE

PLAN AND PROFILE

NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	9	11



STRIPING NOTES

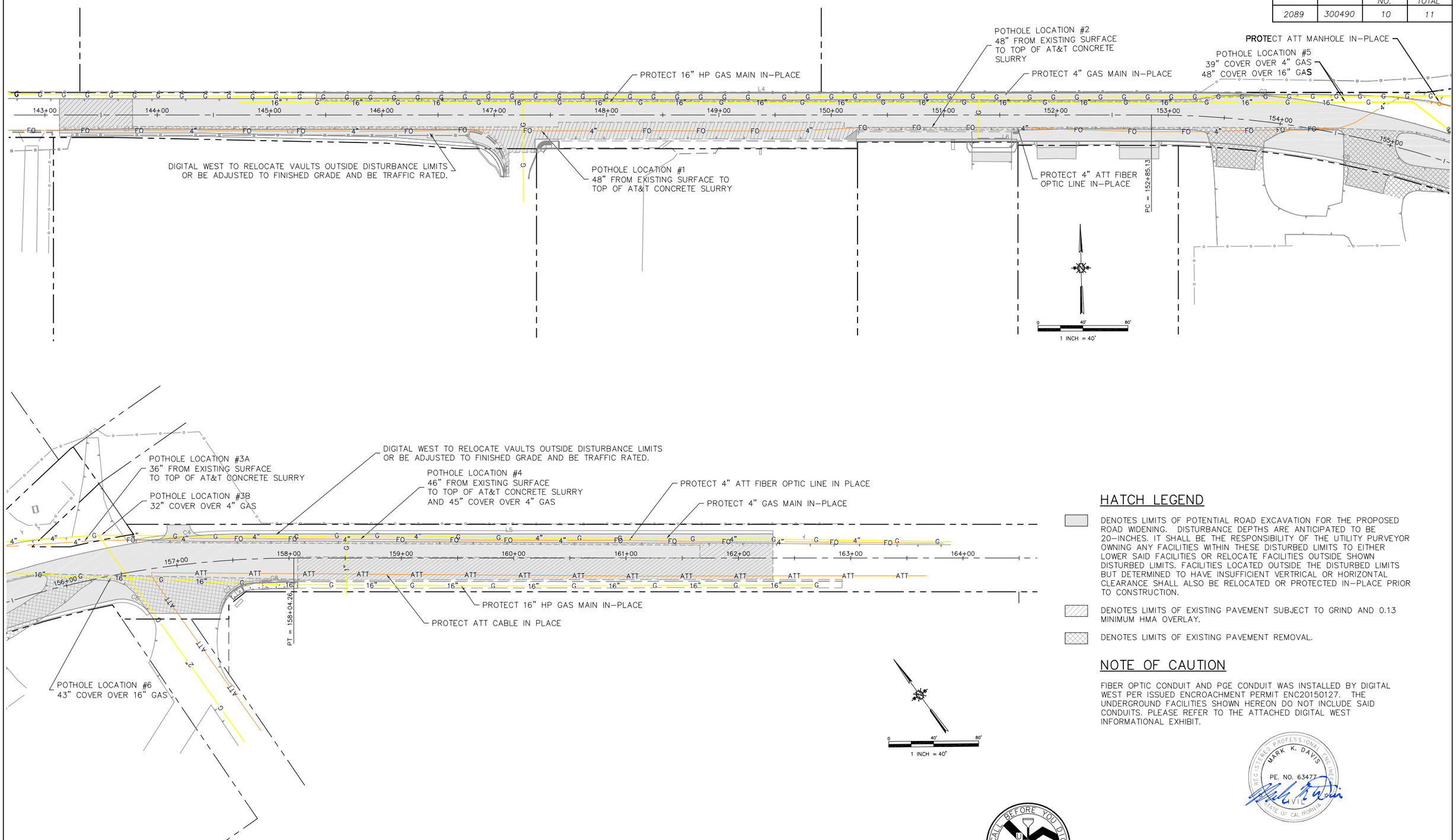
1. REMOVE EXISTING DETAIL 22 WITHIN PROJECT LIMITS PER SECTION 15 "MISCELLANEOUS HIGHWAY FACILITIES" OF THE STATE STANDARD SPECIFICATIONS.
2. REMOVE EXISTING DETAIL 27B WITHIN PROJECT LIMITS.
3. REMOVE AND SALVAGE EXISTING DELINEATORS.
4. ALL NEW TRAFFIC LINES SHALL BE PAINT.
5. ALL SALVAGED SIGNS AND MARKERS SHALL BE RETURNED TO 1355 KANSAS AVENUE, SAN LUIS OBISPO, CA. 93405.
6. ALL RUMBLE STRIPS SHALL BE REMOVED.
7. RELOCATION OF CHEVRON SIGNS SHALL CONFORM TO SECTION 2C.09 OF THE MUTCD.
8. ALL NEW SIGNS SHALL BE 48-INCHES EXCEPT PROPOSED CHEVRONS (TO MATCH EXISTING).

(xx) PAVEMENT DELINEATION DETAIL NUMBER PER STATE STANDARD PLANS, MAY 2006.

REGISTERED PROFESSIONAL ENGINEER
JEREMY E. GHENT
C78611
EXP. 4/30/17
CIVIL
STATE OF CALIFORNIA

BUCKLEY ROAD TWO WAY LEFT TURN LANE					
ROAD SIGNAGE AND STRIPING PLAN					
NEAR SAN LUIS OBISPO, CA.					
Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	10	11



HATCH LEGEND

DENOTES LIMITS OF POTENTIAL ROAD EXCAVATION FOR THE PROPOSED ROAD WIDENING. DISTURBANCE DEPTHS ARE ANTICIPATED TO BE 20-INCHES. IT SHALL BE THE RESPONSIBILITY OF THE UTILITY PURVEYOR OWNING ANY FACILITIES WITHIN THESE DISTURBED LIMITS TO EITHER LOWER SAID FACILITIES OR RELOCATE FACILITIES OUTSIDE SHOWN DISTURBED LIMITS. FACILITIES LOCATED OUTSIDE THE DISTURBED LIMITS BUT DETERMINED TO HAVE INSUFFICIENT VERTRICAL OR HORIZONTAL CLEARANCE SHALL ALSO BE RELOCATED OR PROTECTED IN-PLACE PRIOR TO CONSTRUCTION.

DENOTES LIMITS OF EXISTING PAVEMENT SUBJECT TO GRIND AND 0.13 MINIMUM HMA OVERLAY.

DENOTES LIMITS OF EXISTING PAVEMENT REMOVAL.

NOTE OF CAUTION

FIBER OPTIC CONDUIT AND PGE CONDUIT WAS INSTALLED BY DIGITAL WEST PER ISSUED ENCROACHMENT PERMIT ENC20150127. THE UNDERGROUND FACILITIES SHOWN HEREON DO NOT INCLUDE SAID CONDUITS. PLEASE REFER TO THE ATTACHED DIGITAL WEST INFORMATIONAL EXHIBIT.

REGISTERED PROFESSIONAL ENGINEER
MARK K. DAVIS
PE. NO. 63477
CIVIL
STATE OF CALIFORNIA

CALL BEFORE YOU DIG
USA
800-227-2600

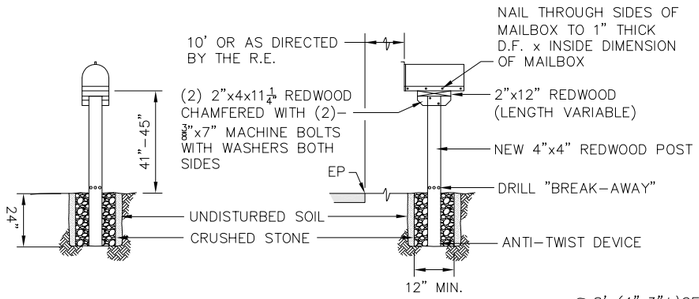
BUCKLEY ROAD TWO WAY LEFT TURN LANE

COMPOSITE UTILITY PLAN

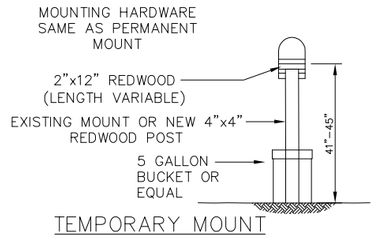
NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016

ROAD NO.	JOB NO.	SHEET NO.	SHEETS TOTAL
2089	300490	11	11



PERMANENT MOUNT



TEMPORARY MOUNT – OKAY DURING COONSTRUCTION

NOTES:
1. CONFORM TO SECTION 7.02 OF CALTRANS TRAFFIC MANUAL, USPS STANDARDS, AND AASHTO ROADSIDE DESIGN GUIDE, CHAPTER 11

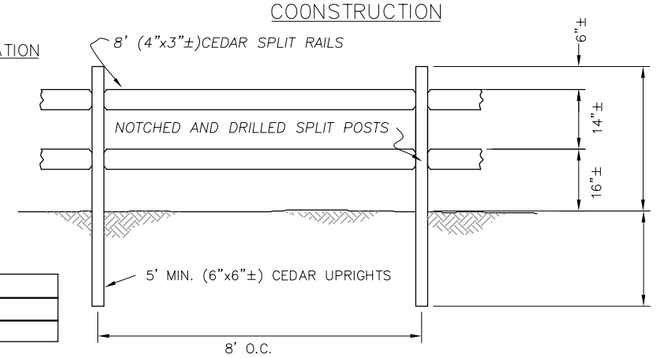
2. ALL LUMBER SHALL BE S4S

MAILBOX SUMMARY

STATION	SIDE	QUANTITY
151+64	Right	5 ea.
TOTAL		5 ea.

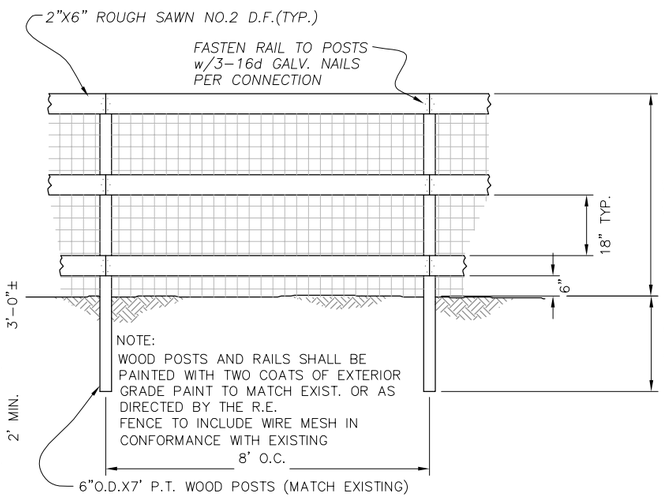
TYPICAL MAIL BOX DETAILS

NOT TO SCALE



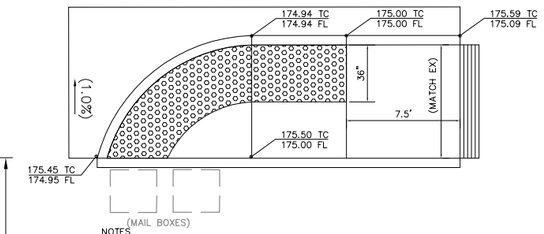
TYPICAL 2-RAIL SPLIT FENCE DETAIL

NOT TO SCALE



TYPICAL 3-RAIL DETAIL

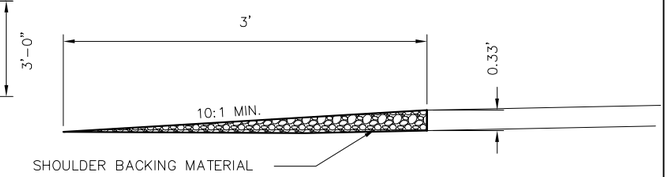
NOT TO SCALE



NOTES
1. CASE CM CURB RAMP
2. REMOVE EXISTING CONCRETE RAMP AND APRON
3. RAMP SHALL CONFORM TO CALTRANS A88A/A88B STANDARD PLAN NOTES

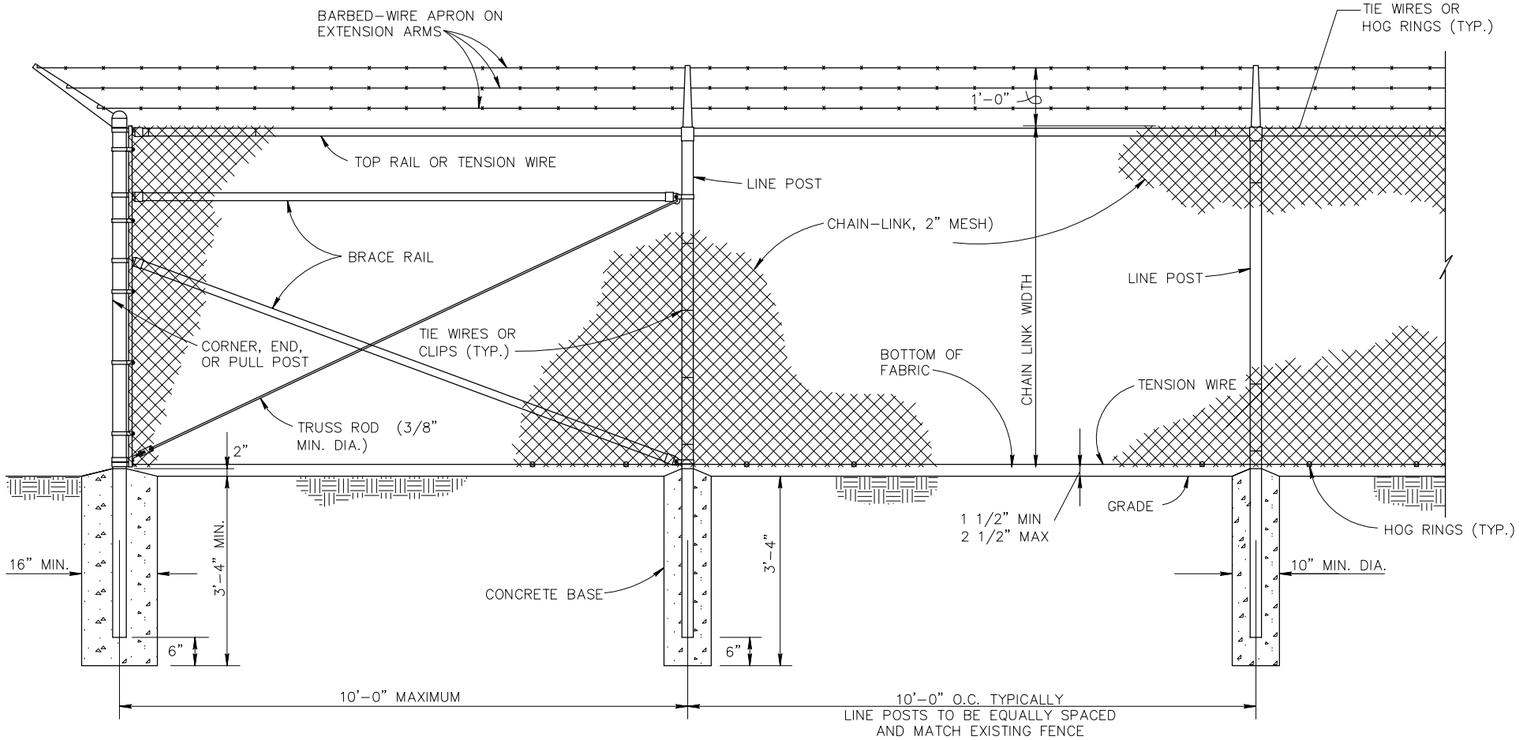
TYPICAL ADA RAMP DETAIL 1

NOT TO SCALE



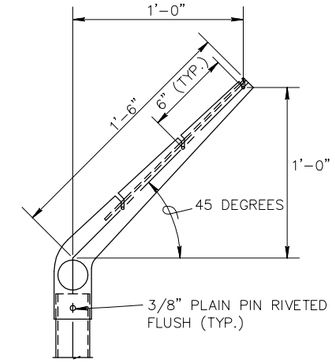
TYPICAL SHOULDER BACKING TREATMENT DETAIL

NOT TO SCALE

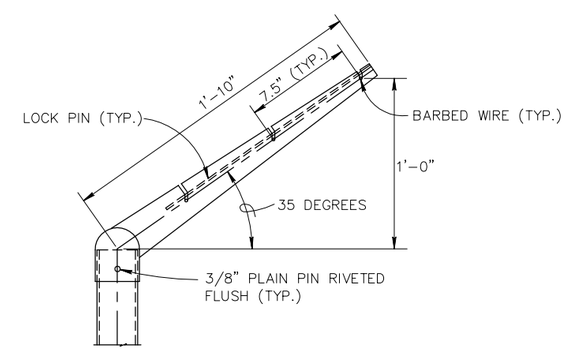


TYPICAL CHAIN-LINK FENCE DETAIL

NOT TO SCALE



LINE POST



CORNER POST

NOTES:
1. TEMPORARY FENCE MUST PROVIDE SAME LEVEL OF SECURITY AS THE EXSTING FENCE.

2. HEIGHT AND MATERIAL MUST MATCH EXISTING. (6' HIGH AND 12" HIGH OUTRIGGERS)

3. ALL EXISTING SECURITY SIGNAGE MOUNTED ON THE FENCE SHALL BE PLACED IN THE EXACT LOCATIONS AS THEY ARE CURRENTLY MOUNTED.

4. SECURITY SIGNAGE SHALL BE MOUNTED NO MORE THAN 125 FEET APART.

5. SIGNS SHALL BE MOVED TO THE TEMPORARY FENCE AND THEN BACK TO THE PERMANENT FENCE ON COMPLETION OF PROJECT.

6. DURING THE TIME OF INSTALLATION OF THE TEMPORARY FENCE, A TRAINED WORKER WHO HAS AN AIRPORT BADGE MUST BE PRESENT AT ALL TIMES. TEMPORARY FENCE SHALL BE INSTALLED PRIOR TO REMOVAL OF THE EXISTING FENCE. SECURITY SHALL BE MAINTAINED AT ALL TIMES.

REGISTERED PROFESSIONAL ENGINEER
MARK K. DAVIS
PE. NO. 63477
CIVIL
STATE OF CALIFORNIA

BUCKLEY ROAD TWO WAY LEFT TURN LANE

CONSTRUCTION DETAILS

NEAR SAN LUIS OBISPO, CA.

Designer	Date	Drawn By	Date	Design Engineer	Date
M DAVIS	1/2016	MD	1/2016	J WERST	1/2016