# **EMERGENCY VEHICLE OPERATIONS CENTER (EVOC) ASPHALT & LIGHTING REPLACEMENT**

#### **GENERAL NOTES**

- ALL IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THIS PLAN AND COMPLY WITH THE LATEST SAN BERNARDINO COUNTY ROAD PLANNING AND DESIGN STANDARDS MANUAL AS WELL AS THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS, AND THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS

- ROAD PLANNING AND DESIGN STANDARDS MANUAL AS WELL AS THE SAN BERNARDING COUNTY DEPARTMENT OF PUBLIC WORKS GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS

  2. BENCH MARK DATA:
  SEE TITLE BLOCK INFORMATION BELOW.

  3. STREET MARKERS PER SAN BERNARDING COUNTY STANDARD NO. 303, 304A AND 303B SHALL BE CONSTRUCTED AT EACH INTERSECTION.

  4. STREET MARKERS PER SAN BERNARDING COUNTY STANDARD NO. 303, 304A AND 303B SHALL BE CONSTRUCTED AT EACH INTERSECTION IN ACCORDANCE WITH APPLICABLE SAN BERNARDING COUNTY STANDARDS. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.

  5. A PERMIT WILL BE REQUIRED FROM THE COUNTY OF SAN BERNARDING, PROJECT AND FACILITIES DEPARTMENT PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN THE COUNTY OF SAN BERNARDING EASEMENT OR RIGHTS-OF-WAY.

  6. LEAVE ®'X8" BLOCK OUTS IN SIDEWALKS FOR MALEDOXES, ETC. WHEN SIDEWALK IS PLACED ADJACENT TO CURB.

  7. IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUBGRADE OF ROAD OR DRAINAGE FACILITIES A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER AC. AND P.C.C. SHALL BE UNIFORMLY APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.

  8. COMPACTION TESTS OF EMBANKMENT CONSTRUCTION, TRENCH BACKFILL, COMPACTING ORIGINAL GROUND, ALL SUBGRADES SHALL BE SHALL BE SUBMITTED TO PROJECT AND FACILITIES MANAGEMENT DEPARTMENT ("COUNTY"). ENGINEER OF RECORD (MEG), AND COUNTY INSPECTION CONSULTANT (TBD) FOR APPROVAL PRIOR TO PLACEMENT OF BASE MATERIALS AND/OR SURFACING.

  9. AT THE COMPLETION OF PAVING, A MATERIALS REPORT SHALL BE SUBMITTED TO THE SAN BERNARDING COUNTY, PROJECT AND FACILITIES AND AND SAND EQUIVALENT OF A GREGATE BASES.

  B. STABILITY, OIL CONTENT AND SIEVE ANALYSIS OF ASPHALT SURFACING.

  10. THE WATER MANGS AND THE GAS MAINS SHALL BE PLACED UNDERGROUND PRIOR TO PAVING CONSTRUCTION. THE SERVICE LATERALS SHALL BE BORED INTO PLACE.

  17. HILL AND GRADE TO DRAIN ALL LE DINSTALL BE PLACED UNDERGROUND PRIOR TO PAVING CONSTRUCTION. THE SERVICE LATERALS SHALL BE BORED INTO PLACE.

  18. HILL AND

- IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT OR DIKE OR CURB AND/OR GUTTER, THE CONTRACTOR SHALL DILIGENTLY
  PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
   COUNTY APPROVAL DOES NOT INCLUDE WATER SEWER SYSTEM OR ESTIMATE OF QUANTITIES.
   EXPANSIVE SOILS: IN EXPANSIVE SOIL AREAS, THE SUBGRADE UNDER CURBS, GUTTERS, SIDEWALK AND DRIVEWAY APPROACHES SHALL
  BE SCARRIFED TO THE DEPTH OF AT LEAST EIGHT (8) INCHES AND MOISTURE SHALL BE APPLIED TO MAINTAIN FREE WATER ON THE
  SURFACE FOR AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE AND THE SUBGRADE SHALL THEN BE PREPARED WITHOUT
- 17. CURB AND GUTTER CROSS GUTTER AND SPANDRELS SHALL BE SO CONSTRUCTED THAT A MINIMUM OF PONDING OCCURS: SECTIONS HAVING GRADIENTS OF 0.5% OR FLATTER SHALL BE WATER TESTED IN THE PRESENCE OF THE INSPECTOR IMMEDIATELY PRIOR TO HAVE WATER PONDING MORE THAN 6" WIDE OR MORE THAN 4" LONG SHALL BE SAW-CUT AND REMOVED IN LENGTHS NOT LESS THAN 4' AND REPLACED TO REDUCE PONDING TO THE MAXIMUM SPECIFIED
- 18. IF DURING CONSTRUCTION, GROUND WATER IS ENCOUNTERED, A SYSTEM APPROVED BY THE COUNTY SHALL BE INSTALLED TO DEWATER SAID AREA AT THE DIRECTION OF THE SOILS ENGINEER.
- PRIVATE ROADS SHALL NOT BE ENTERED INTO THE COUNTY MAINTAINED ROAD SYSTEM.
- THE ENGINEER OF RECORD SHALL INSPECT AND CERTIFY THAT ALL PRIVATE ROAD AND DRAINAGE IMPROVEMENTS HAVE BEEN BUILT IN 21. ALL 0.40% OR LESS CURB GRADE LINES SHALL BE STAKED AT 25' INTERVALS AND FORMS CERTIFIED BY THE ENGINEER BEFORE POURING
- 22. EXISTING COUNTY ROADS THAT WILL REQUIRE RECONSTRUCTION SHALL REMAIN OPEN FOR TRAFFIC AT ALL TIMES WITH ADEQUATE
- 23. THE ENGINEER OF RECORD IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF WORK HEREON. IN THE EVENT OF
- DISCREPANCIES ARISING DURING CONSTRUCTION, THE ENGINEER OR RECORD SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISE THE PLAN FOR APPROVAL BY THE COUNTY. ACCEPTABLE SOLUTION AND REVISE THE PLAN FOR APPROVAL BY THE COUNTY.

  24. SHOULD ANY EXISTING STOP SIGN BE LOCATED ON A DEVELOPED CORNER OF AN INTERSECTION, IT MUST BE MAINTAINED IN PLACE NEXT TO THE EXISTING PAVEMENT UNTIL SUCH TIME AS THE WIDENED ROADWAY IS OPEN FOR TRAFFIC, AT THAT TIME, IT WILL BE
- RELOCATED THREE (3) FEET BEHIND THE NEW CURB IN THE VICINITY OF THE BEGINNING OF THE CURB RETURN OR AS OTHERWISE DIRECTED BY THE ENGINEER.

  25. KINDER MORGAN CALLEY PIPELINE HAS ANS EXISTING 8" HIGH PRESSURE FUEL LINE TRAVERSING THE SITE. CONTRACTOR SHALL HAVE
- A COPY OF THE "GUIDELINES FOR DESIGN AND CONSTRUCTION NEAR KINDER MORGAN OPERATED FACILITIES" DOCUMENT AND NOTIFY KINDER MORGAN FOR COORDINATION OF REQUIREMENTS PRIOR TO CONSTRUCTION. LINE SHALL BE CLEARLY INDICATED IN THE FIELD AND NO EXCAVATION SHALL OCCUR WITHIN 30 FEET OF THE PIPELINE WITHOUT A KINDER MORGAN INSPECTOR PRESENT.

#### TRAFFIC CONTROL - GENERAL NOTES

- ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION,
- NOTE 2: G AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE 2015 CALTRANS STANDARD PLANS DATED
- ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.
- NOTE 4: ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT

- A, STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS)RETROREFLECTIVE SHEETING.

  3. "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.

  C, SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.

  S. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD.

  C, CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
- ALL DELINEATORS. CHANNELIZERS. AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
- SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(A) AND 303(B)
- NOTE 7 ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR
- ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR, RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS ORAS DIRECTED BY COUNTY REPRESENTATIVE.
- ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCHBASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCO LATEST EDITION.
- NOTE 10: ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKING NOT SHOWN ON PLANS, IF REMOVEDIOBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFO MUTCD LATEST EDITION.
- NOTE 11: THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIMSION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

# PROJECT No. 10.10.1222

# SAN BERNARDINO COUNTY SHERIFF'S DEPARTMENT

#### RAW EARTHWORK QUANTITIES

PROJEC	T SCOPE	сит	FILL	NET
EVOC IMPR	ROVEMENTS	967 CY	95 CY	*872 CY
	NATE #1 (EAST NG LOT)	209 CY	289 CY	*80 CY (IMPORT)
	IATE #2 (WEST NG LOT)	690 CY	30 CY	*660 CY (EXPORT)

D. PLAN A90A ON SHEET 32.

ESTIMATED EARTHWORK QUANTITIES ABOV. SUME TO ALL ON-MATERIALS ARE SUITABLE FOR BACKFILLING. FVER, A. 1. ON-SITE MATERIALS AND IMPORT! "YERIALS. L BE AP. LEGEOTECHNICAL ENGINEER PR." LLATION, "OVAL, CARRELLE CONTRACTOR OF THE CON

QUANTITY

226 LF.

1 EA.

426 SF.

993 LF.

190 SF.

1.628 LF.

10.799 LF

1.941 LF.

313 LF.

27 EA.

3.990 LF

### SIGNING

AND STRIPING CONSTRUCTION NOTES	( JAI
VO-WAY YELLOW RETROREFLECTIVE PAVEMENT MARKER PER CALTRANS STD, PLAN A20B, DETAIL 25A ON SHEL	/EA
OW CENTERI INF PER CALTRANS STD. PLAN A20A. DETAIL 1 ON SHEET 32	6.759 LF.

PLAN A20A, DETAIL 21 ON SHEET 32.

2 PAINT YELLOW CENTERLINE PER CALTRANS STD, PLAN A20A, DETAIL 1 ON SHEET 32, (3) PAINT WHITE LANE LINE PER CALTRANS STD, PLAN A20A, DETAIL 8 ON SHEET 32,

4 PAINT WHITE EDGELINES PER CALTRANS STD. PLAN A20B, DETAIL 27B ON SHEET 32. 5 PAINT 6-INCH WIDE SOLID YELLOW LINE.

(6) PAINT 6-INCH WIDE SOLID WHITE LINE.

7 PAINT 'STOP' PAVEMENT MARKING PER CALTRANS STD, PLAN A24D ON SHE 8 PAINT 4-INCH WIDE SOLID WHITE LINE,

9 PAINT HANDICAP PARKING STRIPING WITH SYMBOL AND INSTALL (10) PAINT 12-INCH WIDE SOLID WHITE LIMIT LINE PER CALTRAN

(11) RELOCATE EXISTING SIGN TO THIS LOCATION,

(18) PAINT CROSSWALK PAVEMENT MURKING PE

# PAVING CONSTRUCTION NO FS

MENT OVER 5" COMPACTED SUBGRADE PER RECOMMENDATIONS JUCT EDGE OF PAVEMENT PER APPLICABLE CONDITION, SEE

OMPACTED SUBGRADE PER RECOMMENDATIONS OF THE M 0" TO JOIN EXISTING HEIGHT CURB PER DETAIL 4 ON SHEET 33, ICT CURB. 1P PER CALTRANS STD. PLAN A88A, CASE A ON SHEET 33.

TH CURB RETURNS PER COUNTY OF SAN BERNARDING DEPARTMENT OF PUBLIC TD. PLAN 129B ON SHEET 33 WITH MODIFICATIONS AS FOLLOWS: APPROACH LENGTH AND SIDEWALK

6 CONSTRUCT PCC CURB PER CALTRANS STD, PLAN A87A, TYPE 'A1' ON SHEET 33, 7 CONSTRUCT 4° PCC SIDEWALK PER COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS STD.

(8) PRESERVE AND PROTECT EXISTING STORM DRAIN INLET, ADJUST TO FINISH GRADE IF NECESSARY,

### PRIVATE ENGINEER'S NOTE TO CONTRACTOR

SEE GENERAL CONDITIONS FOR REQUIRED INDEMNIFICATION



EXISTING BROKEN ASPHAL EXISTING CONCRETE

EXISTING LANDSCAPE

EXISTING CONCRETE TO REMAIN

PROPOSED ASPHALT

PROPOSED CONCRETE SP ₼ WATER SPIGOT

> W/M VAI VENVATER VAI VE POST INDICATOR VALVE M W WATER METER

FH T FIRE HYDRANT

 □ FIRE DEPARTMENT CONNECTION SMHIO SANITARY SEWER MANHOLE

SCO SEWER CLEANOUT 0/ ◎ DROP INLET

EPB D ELECTRICAL JUNCTION BOX / PULLBOX LP 

 LIGHT POLE - LUMINAIRE

GUY WIRE ← GUY WIRE EP8 □ ELECTRICAL PULLBOX

P.P. - POWER POLE COMM VLT ▼ COMMUNICATION VAULT TIRE (O) TIRE

PARKING STOP - WHEEL STOP TROADSIDE SIGN → STREET SIGN

TRAFFIC SIGNAL PYLONS UNK MANHOLE O UNKNOWN MH STORM DRAIN

-- GAS UNDERGROUND ELECTRIC OE-OE-OE-OE-OVERHEAD ELECTRIC UG COMMUNICATION DUCTBANK × αF × CHAIN LINK FENCE

GUARDRAIL GUARDRAIL - LANE STRIPING ---- SAWCUT LINE

\_\_\_\_ \_ LIMITS OF DEMOLITION / WORK - · - - - LIMITS OF GRADING / JOIN EXISTING

# **ABBREVIATIONS**

AC	ASPHALT CONCRETE	FL	FLOWLINE
B-B	BACK TO BACK	FS	FINISH SURFACE
BIT	BITUMINOUS	GRVL	GRAVEL
BLDG	BUILDING	GUT	GUTTER
BLVD	BOULEVARD	L	LENGTH
BC	BACK OF CURB	LF	LINEAL/LINEAR FEET
BRK	BRICK	LS	LANDSCAPING
BW	BOTTOM OF WALL	PCC	PORTLAND CEMENT CONCRETE
C&G	CURB AND GUTTER	PR	PROPOSED
CF	CURB FACE	PVMT	PAVEMENT
CL	CENTERLINE	R	RADIUS
CONC	CONCRETE	RD	ROAD
CY	CUBIC YARD	RL	REFERENCE LINE
Δ	DELTA ANGLE	RR	RAILROAD
DC	DEPRESSED CURB	SF	SQUARE FEET
DIA	DIAMETER	SHLD	SHOULDER
DRV	DRIVEWAY	ST	STREET
EA	EACH	STD	STANDARD
E-E	EDGE TO EDGE	SW	SIDEWALK
EL	ELEVATION	SY	SQUARE YARD
EP	EDGE OF PAVEMENT	TC	TOP OF CURB

UNLESS NOTED OTHERWISE UNDERGROUND

SAN BERNARDINO COUNTY

ASPHALT & LIGHTING REPLACEMENT PROJECT NO. 10 10 1222

SHEET 1 OF 44

REVISIONS

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GATE OF CALFORNIA

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AND LARK THOUGH	
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SAN BERNARDING COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT

SHERIFF'S DEPARTMENT EMERGENCY VEHICLE OPERATIONS CENTER

TITLE SHEET

5,15,25

6,16,26

SHEET INDEX

9.19.29

0,20,30

11,21,31

SHEET TITLE

TITLE SHEET

DEMOLITION PLAN

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PAVING AND SIGNING & STRIPING PLAN

GRADING PLAN

DETAILS

ELECTRICAL COVERSHEET ELECTRICAL SPECIFICATIONS

SINGLE LINE DIAGRAM

SITE PLAN - ELECTRICAL

ELECTRICAL DETAILS

SITE LAYOUT PLAN SIGNAL CABLE PLAN AND NOTES

ROAD NO.

TRAFFIC SIGNA

3,13,23

4,14,24

INDEX MAP

SHEET NUMBER

10

12

15

18

20

22

23

24

25

28

29

33

39

2,12,22

Underground Service Allert

TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

JOHN M. THOMPSON







