

TRAFFIC SIGNAL IMPROVEMENTS

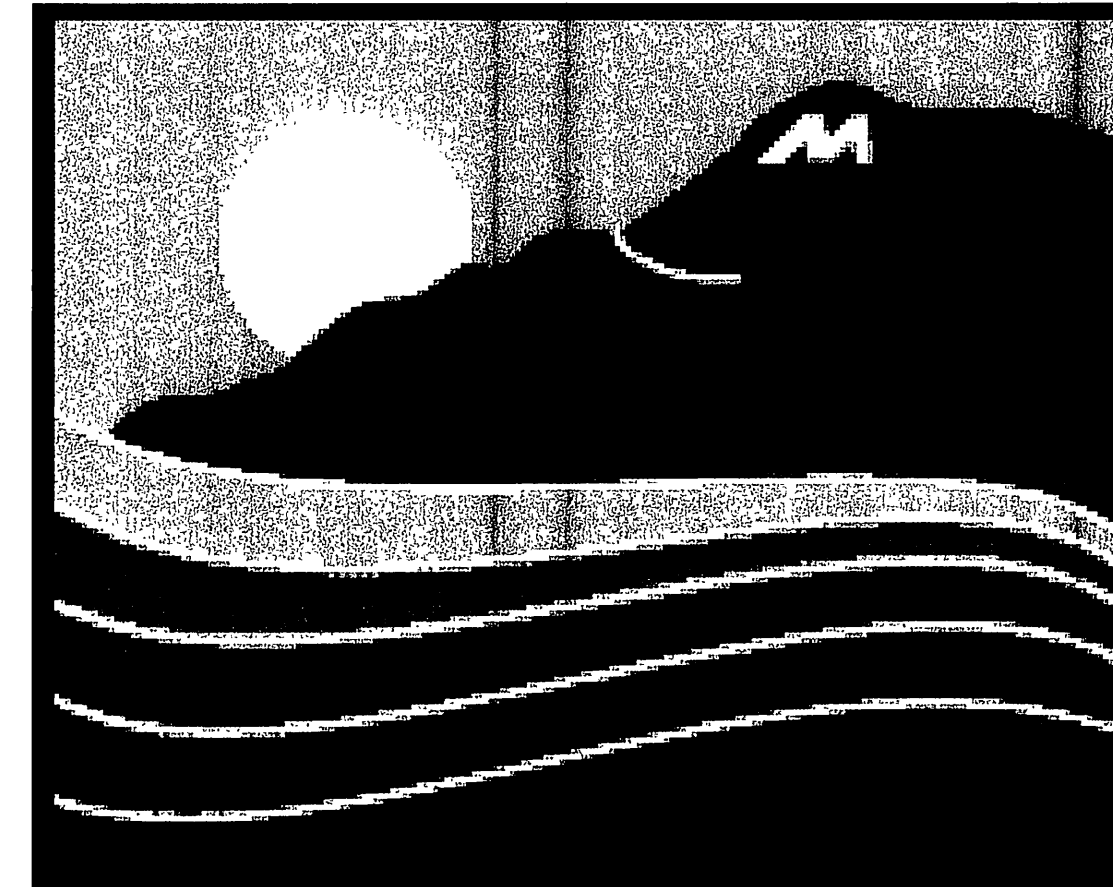
DAY ST. AND COTTONWOOD AVE.

PROJECT NO. 04-125.66824

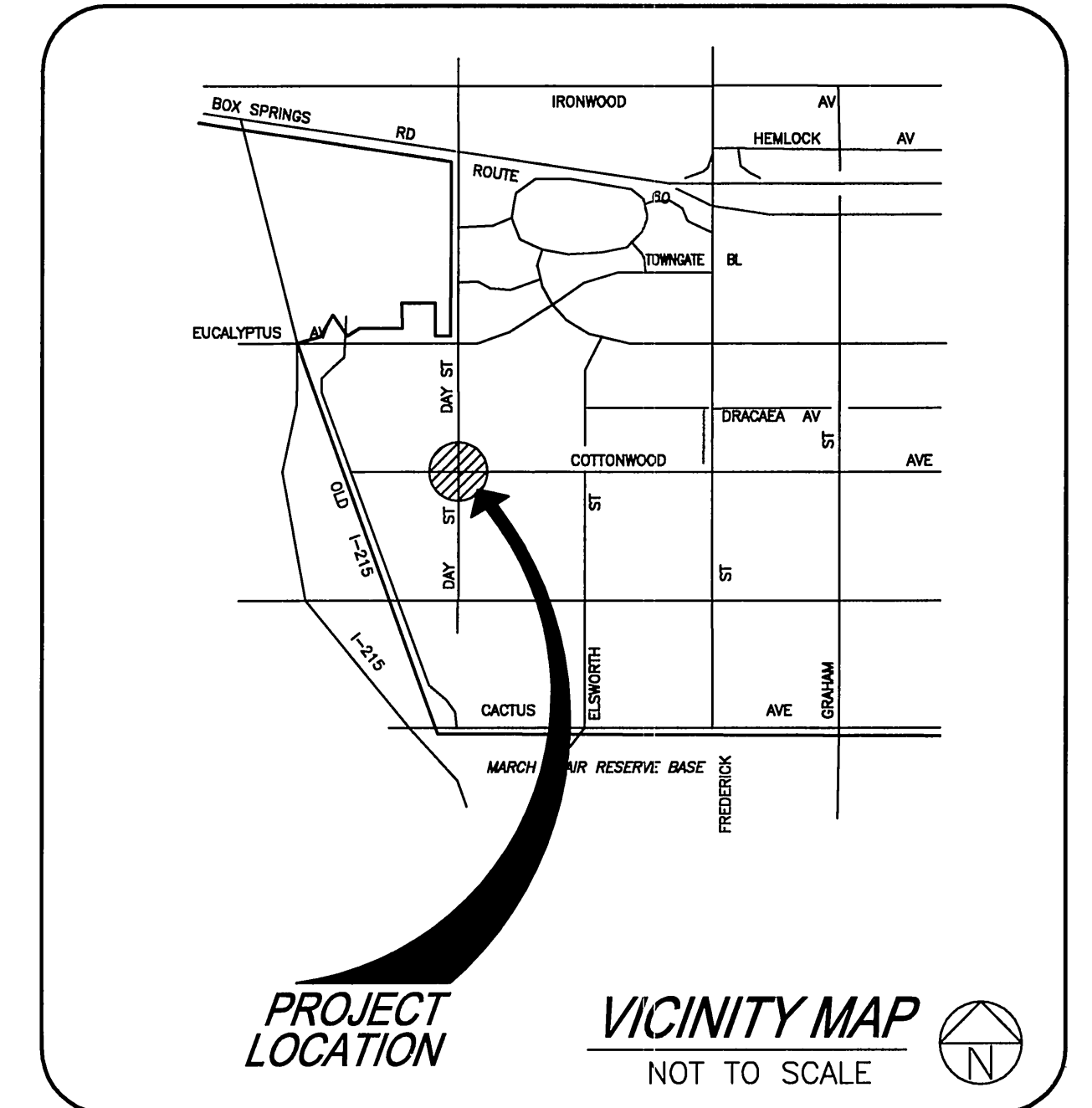
GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS IN EFFECT AT THE TIME OF BID, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREENBOOK" LATEST EDITION, THE CITY OF MORENO VALLEY "STANDARD PLANS" AND CALTRANS "STANDARD PLANS" (LATEST EDITION) AS NOTED ON THE PLANS AND IN THE SPECIAL PROVISIONS.
- ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS IN EFFECT AT THE TIME OF BID, SECTION 86 "SIGNALS AND LIGHTING" OF CALTRANS STANDARD SPECIFICATIONS, CALTRANS STANDARD PLANS, AND THE SPECIAL PROVISIONS.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. PART 6 "TEMPORARY TRAFFIC CONTROL." AND M.U.T.C.D. CALIFORNIA SUPPLEMENT PART 6 "TEMPORARY TRAFFIC CONTROL."
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A CITY OF MORENO VALLEY BUSINESS LICENSE AND ENCROACHMENT PERMIT.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, PROVIDE ALERT NO. TO CITY ENGINEER AND ALL NECESSARY UTILITY COMPANIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FILE AN APPLICATION FOR A FIRE HYDRANT METER WITH THE APPROPRIATE WATER AGENCY.
- REQUEST FOR INSPECTION TO THE CITY OF MORENO VALLEY SHALL BE MADE BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS BEFORE THE SERVICES THEREOF WILL BE REQUIRED AT (951) 413-3130.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. FAILURE TO COMPLY WILL BE A VIOLATION OF THE CONTRACT. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.
- NO PUBLIC TRAVELED STREET SHALL BE CLOSED TO TRAFFIC WITHOUT PRIOR CITY COUNCIL APPROVAL.
- PROVISIONS SHALL BE MADE BY THE CONTRACTOR AT ALL TIMES FOR CONTRIBUTORY DRAINAGE.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, THESE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND OTHER LINES NOT ON RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL EXCAVATE INSPECTION HOLES (POT HOLES) AND DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND STRUCTURES AND UTILITIES THAT ARE IN THE VICINITY OF OR THAT MAY BE AFFECTED BY THE PROPOSED IMPROVEMENT WORK PRIOR TO ANY CONSTRUCTION WORK WHICH COULD DAMAGE OR CONFLICT WITH SAID STRUCTURES OR UTILITIES.
- THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING TRAFFIC SIGNAL CONDUIT WITHIN 6" ABOVE PROPOSED SUB GRADE SURFACE AND ALL CONDUIT BELOW PROPOSED SUBGRADE SURFACE. ALL EXISTING CONDUIT THAT IS MORE THAN 6" ABOVE THE PROPOSED SUBGRADE SURFACE SHALL BE RELOCATED TO WITHIN 6" BELOW PROPOSED SUBGRADE SURFACE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THE IMPROVEMENTS CONFLICT WITH EXISTING FACILITIES AND WORK IN THE CONFLICTING LOCATION SHALL STOP.
- ANY ALTERATIONS OR VARIANCES FROM THE PLANS, EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS, SHALL BE REQUESTED IN WRITING AND MAY NOT BE INSTITUTED UNTIL APPROVED BY THE CITY ENGINEER OR REPRESENTATIVES ACTING SPECIFICALLY ON THE CITY ENGINEER'S INSTRUCTIONS.
- INSPECTION BY THE CITY INSPECTOR SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR OF HIS/HER OBLIGATIONS TO COMPLETELY AND DILIGENTLY PERFORM ALL WORK IN COMPLIANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED BY LOCAL BENCH MARKS. SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE.
- ALL A.C. AND P.C.C. SHALL BE SAWCUT UNLESS OTHERWISE SPECIFIED.
- NO TRENCHES EXCEPT CURB AND GUTTER, SHALL BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY THE CITY ENGINEER IN WRITING.
- ALL UTILITIES SHALL BE INSTALLED, INSPECTED, TESTED AND APPROVED BY THE APPROPRIATE UTILITY COMPANY PRIOR TO PAVING. PROOF OF SUCH INSPECTION/APPROVAL SHALL BE SUPPLIED TO THE CITY INSPECTOR OR REPRESENTATIVE.
- IRRIGATION LINES WITHIN ANY CITY STREET SHALL HAVE A 30" MINIMUM COVER FROM FINISH SURFACE, UNLESS SAID IRRIGATION LINE HAS BEEN APPROVED BY THE CITY ENGINEER IN WRITING TO BE ENCASED IN CONCRETE OR BEDDED IN A SPECIAL CONCRETE CRADLE.
- THE CONTRACTOR SHALL COMPACT THE UPPER SIX-INCHES OF SUBGRADE/AGGREGATE BASE TO A MINIMUM RELATIVE DENSITY OF 90/95 PERCENT RESPECTIVELY PER ASTM 1556-82 TESTING METHOD, OR AS DIRECTED BY THE ENGINEER.
- SUBGRADE MATERIAL PLACED FOR CURB, GUTTER, DRIVEWAY APPROACHES, AND SIDEWALKS SHALL BE TO A RELATIVE COMPACTION OF 90 PERCENT.
- ALL PORTLAND CEMENT CONCRETE (PCC) REMOVALS, INCLUDING, BUT NOT LIMITED TO CROSS GUTTERS, CURBS, DRIVEWAY APPROACHES, SIDEWALK AND SPANDRELS SHALL BE MADE BY REMOVING AND REPLACING THE ENTIRE SECTION BETWEEN JOINTS. IF ANY UTILITY CUTS ARE MADE IN PCC IMPROVEMENTS, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED.
- CONCRETE CURBS/GUTTERS, ALLEY APPROACHES, DRIVEWAYS OR OTHER CONCRETE STRUCTURES WHICH WILL BE SUBJECTED TO VEHICULAR TRAFFIC, SHALL BE BARRICADED AND NO VEHICULAR TRAFFIC PERMITTED THERE ON FOR A PERIOD OF AT LEAST SEVEN (7) DAYS FOLLOWING PLACEMENT OF THE SAID CONCRETE STRUCTURE. SHOULD THE CONTRACTOR DESIRE AN EARLIER USE OF CONSTRUCTED FACILITIES, THEN, THE AFFECTED CONCRETE SHALL CONTAIN EIGHT SACKS OF CEMENT PER CUBIC YARD OF CONCRETE AND THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE CITY ENGINEER FOR TRAFFIC USE TO BE PERMITTED THERE ON SEVENTY-TWO HOURS AFTER THE PLACING OF CONCRETE.
- ALL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE IN PLACE AND APPROVED BY THE CITY PRIOR TO PAVING. DELINEATION SHALL BE COMPLETED PRIOR TO STREET OPEN.
- THE CONTRACTOR SHALL NOT PLACE ASPHALT CONCRETE PAVING UNTIL SUBGRADE OR AGGREGATE BASE HAS BEEN INSPECTED AND APPROVED BY THE CITY AND SHALL INCLUDE A COPY OF THE CERTIFICATION OF BASE/COMPACTION BY THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL PLACE THE FINISH (CAP) COURSE PAVING AFTER ALL BASE COURSE PAVING HAS BEEN COMPLETED. TACK COAT SHALL BE PLACED BETWEEN ALL COURSES OF PAVING.
- THE CONTRACTOR SHALL ADJUST WATER VALVE COVERS TO FINISH GRADE DURING PAVING, LOOSEN AFTER PAVING, AND PAINT BLUE.
- BLUE DOTS SHALL BE INSTALLED TO INDICATE THE LOCATION OF FIRE HYDRANTS.
- ALL TREE BRANCHES OVER-HANGING THE SIDEWALK SHALL BE TRIMMED CLEAR TO A MINIMUM HEIGHT OF 10 FEET ABOVE FINISHED SURFACE/GROUND SURFACE AND BRANCHES OVER-HANGING THE ROADWAY SHALL BE TRIMMED CLEAR TO A MINIMUM HEIGHT OF 18 FEET.
- ALL IRRIGATION SHALL BE RELOCATED BEHIND IMPROVEMENTS, AND REPLACED WITH THE SAME STANDARD OF MATERIALS OR HIGHER. ALL LANDSCAPING SHALL COMPLY WITH THE CITY LANDSCAPING DEVELOPMENT GUIDELINES AND SPECIFICATIONS.

MORENO



VALLEY



INDEX LIST

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TRAFFIC SIGNAL PLAN	5 OF 5

UTILITY COMPANIES

EASTERN MUNICIPAL WATER DIST.	(951) 928-3777
VERIZON	(951) 929-9412
S.C. EDISON COMPANY	(951) 928-8234
S.C. GAS COMPANY	(951) 335-3919
ADELPHIA	(951) 422-4133
TRAFFIC SIGNAL MAINTENANCE (CITY)	(951) 413-3140
UNDERGROUND SERVICE ALERT	(800) 227-2600
RIVERSIDE TRANSIT AGENCY	(951) 684-1007

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE INVITING BIDS" OF THE CONTRACT SPECIFICATIONS

ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY THE SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

DIGALERT



Basis of Bearings:

CALIF. STATE PLANE COORD ZONE VI
NORTHING(N) & EASTING(E) COORDINATES
C/L COTTONWOOD AVE & DAY ST
N:2281466.955 E:6249571.489
C/L COTTONWOOD AVE & GLORYBOWER
N:2281468.172 E:6251361.774

BENCH MARK:

CITY OF MORENO VALLEY
R.V. CO. DESIGNATION: M-62-59 DATE:
1969, ELEV = 1551.102'
BETWEEN ALESSANDRO BLVD. & SHERMAN
AV. ON DAY ST, 180 FEET S. OF SHERMAN
AV., 49 FT EAST OF DAY ST 28 FEET NE OF
PP #75208 C.W.T. 2 FEET NORTHWEST OF
THE SW CORNER OF A 6 FT CHAIN LINK
FENCE, 1 FT N. OF A MARKER POST, A
BRASS DISK STAMPED M-62-59 IN THE TOP
OF A CONCRETE POST.

MARK REVISIONS APPR DATE
DESIGNED BY AN DRAWN BY GG CHECKED BY AN

CITY OF MORENO VALLEY APPROVALS

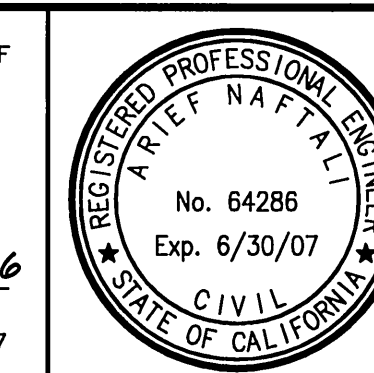
APPROVED BY	DATE	BY
SUPERVISING SENIOR ENGINEER	9/6/06	MAR
CITY TRAFFIC ENGINEER	8/31/06	ES
MAINTENANCE AND OPERATIONS MANAGER	9/1/06	DEC
SENIOR ENGINEER	8/30	CH

BOYLE

1131 W. Sixth Street Suite 350
Ontario, California 91762
Ph. (909) 933-5225
Fax. (909) 933-5228
WWW.BOYLEENGINEERING.COM

PREPARED UNDER SUPERVISION OF

ARIEF NAFTALI
RCE 064286
DATE 8/25/06
Exp. 6/30/07

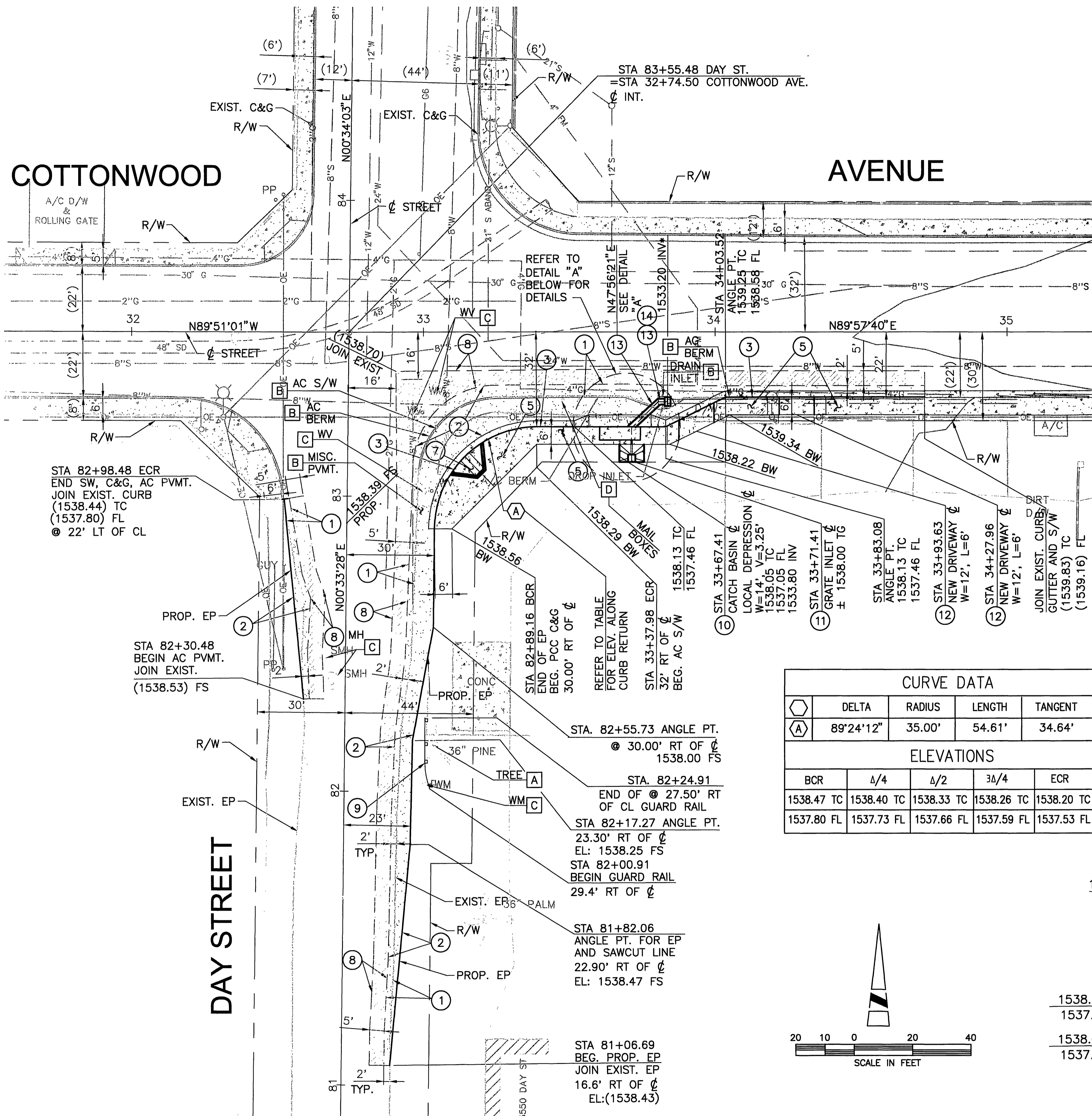


TITLE SHEET

TRAFFIC SIGNAL IMPROVEMENTS
DAY ST. AT COTTONWOOD AVE.

ACC. No. 125.66824

X-522
SHEET 1 OF 5
PROJECT No. 04-125.66824



CONSTRUCTION NOTES:

- ① SAWCUT AND REMOVE EXISTING PAVEMENT. (2' MIN.) BEYOND EDGE OF PAVEMENT (EP).
- ② CONSTRUCT 0.45' AC PAVEMENT OVER 1.00' CLASS II AGGREGATE BASE.
- ③ CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF MORENO VALLEY STD. PLAN NO. 201.
- ④ CONSTRUCT LOCAL DEPRESSION NO.2, CASE C MODIFIED AS SHOWN BELOW ON DETAIL "A", PER RIVERSIDE COUNTY FLOOD CONTROL STD. NO. LD-201.
- ⑤ CONSTRUCT 4" THICK PCC SIDEWALK PER CITY OF MORENO VALLEY STD. PLAN NO. 210.
- ⑥ CONSTRUCT CONCRETE COLLAR FOR CONNECTION BETWEEN NEW AND EXISTING 24-IN STORM DRAIN PIPE PER APWA STD PLAN 380-2. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING STORM DRAIN PIPE PRIOR TO CONSTRUCTION.
- ⑦ CONSTRUCT 4" THICK PCC ACCESS RAMP PER CITY OF MORENO VALLEY STD. PLAN NO. 214A.
- ⑧ COLD PLANE EXISTING AC PAVEMENT 0.15' MIN. DEPTH AND CONSTRUCT VARIABLE THICKNESS (0.15' MIN.) AC OVERLAY OVER PAVEMENT REINFORCING FABRIC FOR SMOOTH JOIN.
- ⑨ CONSTRUCT 25" METAL BEAM GUARD RAIL WITH 12.5' PARABOLIC FLARE (W=3') PER CALTRANS STD. PLANS A77A AND A77D
- ⑩ CONSTRUCT 14'-WIDE CATCH BASIN NO. 1 PER RIV. CO. FLOOD CONTROL STD. DWG. 100. REFER TO PLAN AND SECTION FOR DETAILS.
- ⑪ INSTALL 24"x24" AT-GRADE INLET, NDS 2412 OR APPROVED EQUAL WITH NDS 2400 (CATCH-BASIN), AND APPURTENANT PLUG AND ADAPTER.
- ⑫ CONSTRUCT 12'-WIDE RESIDENTIAL DRIVEWAY APPROACH PER CITY OF MORENO VALLEY STD. PLAN NO. 117. DEPTH = 6'.
- ⑬ CONSTRUCT 24" REINFORCED CONCRETE DRAINAGE PIPE FROM NEWLY CONSTRUCTED CATCH BASIN.
- ⑭ CONNECT EXISTING 24" RCP WITH NEW ONE. CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
- ⑮ GRADE AREA SURROUNDING NEW SQUARE INLET TO ENSURE POSITIVE DRAINAGE.
- ⑯ CONSTRUCT 6" PVC SCH 80 DRAINAGE, SLOPE TO DRAIN PIPE PER SECTION "B" ON SHEET 3 OF 5.

ABBREVIATIONS LIST:

AC	ASPHALT CONCRETE
AVE.	AVENUE
BCR	BEGIN CURB RETURN
BEG.	BEGIN
BW	BACK OF WALK CENTERLINE
C&G	CURB AND GUTTER
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EP	EDGE OF PAVEMENT
EXIST.	EXISTING
FL	FINISHED SURFACE
FS	HIGH POINT
HP	INTERSECTION
INT.	MANHOLE
MH.	MISCELLANEOUS
MISC.	NORTH
N	PORTLAND CEMENT CONCRETE
PCC	PROPOSED
PROP.	POINT
PT.	PAVEMENT
PVMT.	RIGHT OF WAY
R/W	RIGHT
RT	RIGHT
S W	SIDEWALK
ST.	STREET
STA	STATION
TB	TOP OF BERM
TG	TOP OF GRADE
TC	TOP OF CURB
W	WEST
WM	WATER METER
WV	WATER VALVE

LEGEND:

	COLD PLAN AND OVERLAY EXISTING PAVEMENT
	AC PAVEMENT
	PCC PAVEMENT

DISPOSITION NOTES:

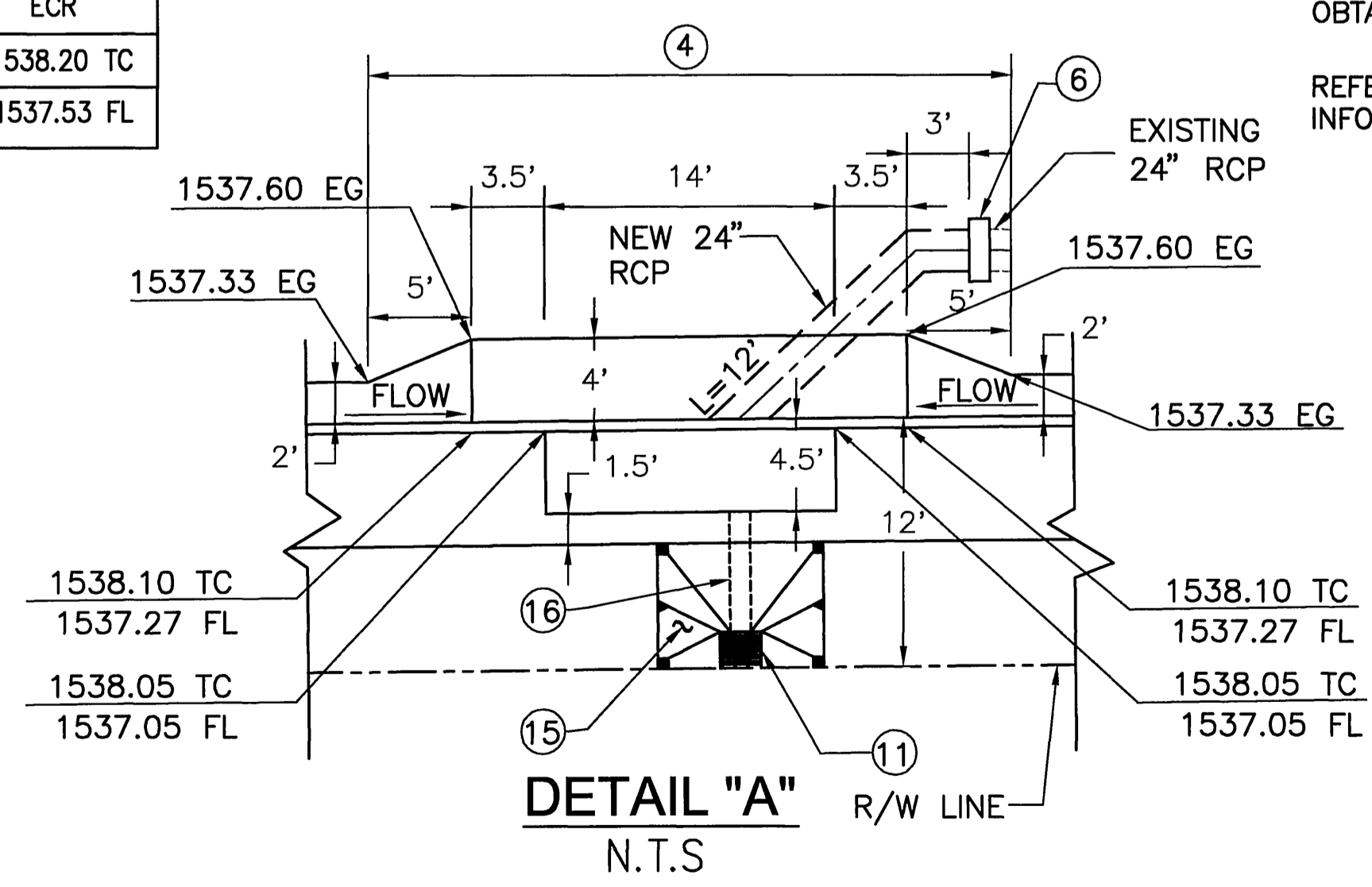
A	PROTECT IN PLACE.
B	REMOVE AND DISPOSE
C	ADJUST TO GRADE.
D	RELOCATE MAILBOXES TO NEW LOCATION BEHIND CURB LINE

GENERAL NOTES:

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN CITY OF MORENO VALLEY ENCROACHMENT PERMIT.
REFER TO SHEET 3 OF 5 FOR EXISTING ELEVATIONS INFORMATION.

CURVE DATA				
DELTA	RADIUS	LENGTH	TANGENT	
89°24'12"	35.00'	54.61'	34.64'	

ELEVATIONS				
BCR	Δ/4	Δ/2	3Δ/4	ECR
1538.47 TC	1538.40 TC	1538.33 TC	1538.26 TC	1538.20 TC
1537.80 FL	1537.73 FL	1537.66 FL	1537.59 FL	1537.53 FL



BASIS OF BEARING:
CALIFORNIA STATE PLANE CORD ZONE VI
C OF COTTONWOOD AVE & DAY ST
N 2281466.955 E 6249571.489
C OF COTTONWOOD AVE & GLORYBOWER
N 2281468.172 E 6251361.774



Basis of Bearings:
CALIF. STATE PLANE COORD ZONE VI NORTHING(N) & EASTING(E) COORDINATES
C/L COTTONWOOD AVE & DAY ST
N:2281466.955 E:6249571.489
C/L COTTONWOOD AVE & GLORYBOWER
N:2281468.172 E:6251361.774

BENCH MARK:
CITY OF MORENO VALLEY
RIV. CO. DESIGNATION: M-62-59 DATE: 1969, ELEV = 1551.102'
BETWEEN ALESSANDRO BLVD. & SHERMAN AV. 49 FT EAST OF DAY ST 28 FEET NE OF PP #75208 C.W.T. 2 FEET NORTHWEST OF THE SW CORNER OF A 6 FT CHAIN LINK FENCE, 1 FT N. OF A MARKER POST, A BRASS DISK STAMPED M-62-59 IN THE TOP OF A CONCRETE POST.

MARK	REVISIONS	APPR	DATE

DESIGNED BY: AN DRAWN BY: GG CHECKED BY: AN

CITY OF MORENO VALLEY APPROVALS

APPROVED BY	DATE	BY
SUPERVISING SENIOR ENGINEER	9/6/06	PREM KUMAR
CITY TRAFFIC ENGINEER	9/6/06	CHRIS A. VONET
MAINTENANCE AND OPERATIONS MANAGER	9/6/06	
SENIOR ENGINEER	9/30/06	

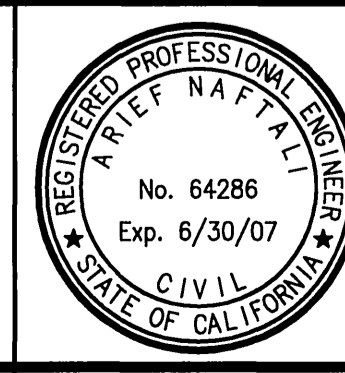
PREM KUMAR
ASSISTANT CITY ENGINEER
R.C.E. 52463 EXP. DATE 12/31/06

CHRIS A. VONET
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. 44250 EXP. DATE 06/30/07

BOYLE ENGINEERING

1131 W. Sixth Street Suite 350
Ontario, California 91762
Ph. (909) 933-5225
Fax. (909) 933-5228
WWW.BOYLEENGINEERING.COM

PREPARED UNDER SUPERVISION OF
ARIEF NAFTALI
RCE C64286
Exp. 6/30/07



STREET IMPROVEMENT PLAN

TRAFFIC SIGNAL IMPROVEMENTS

DAY ST. AT COTTONWOOD AVE.

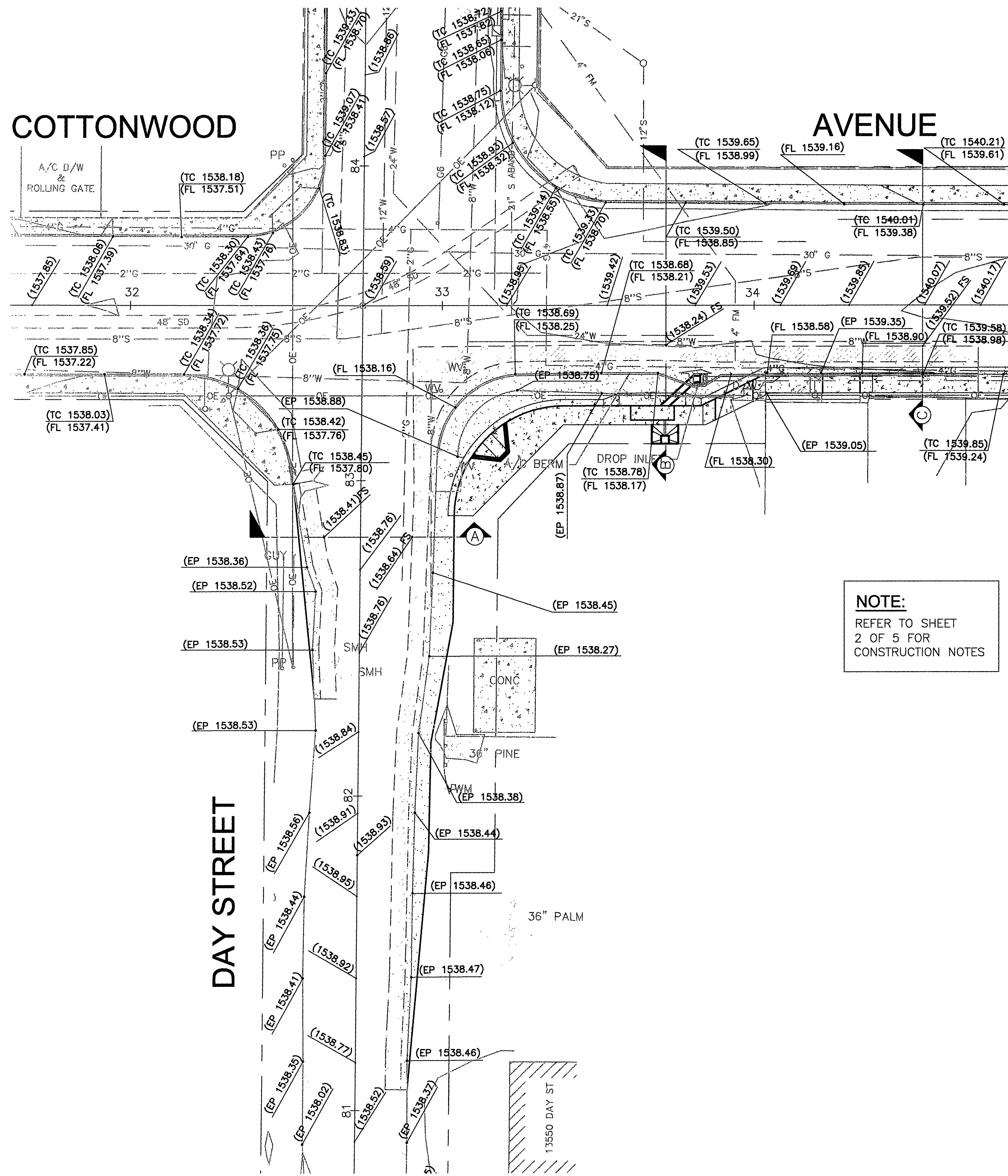
ACC. No. 125.66824

X-522

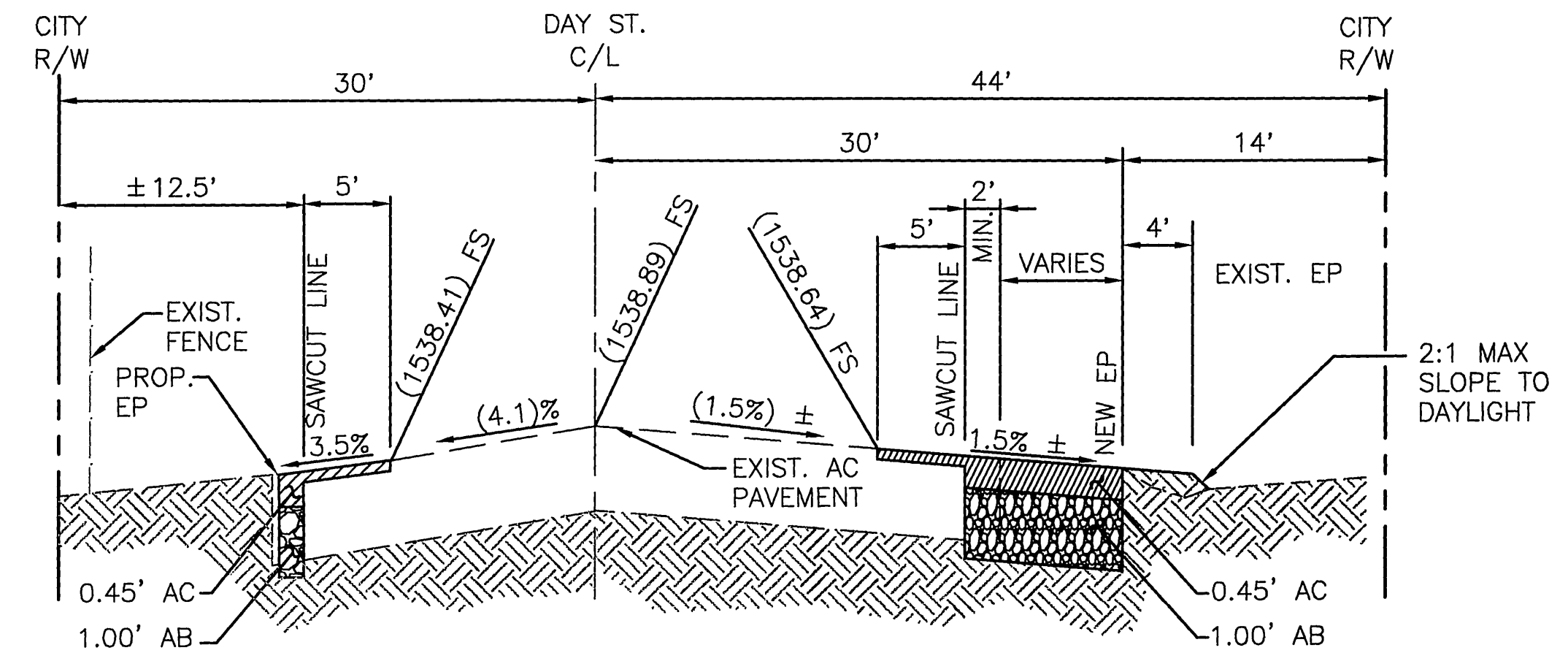
SHEET 2 OF 5

PROJECT No. 04-125.66824

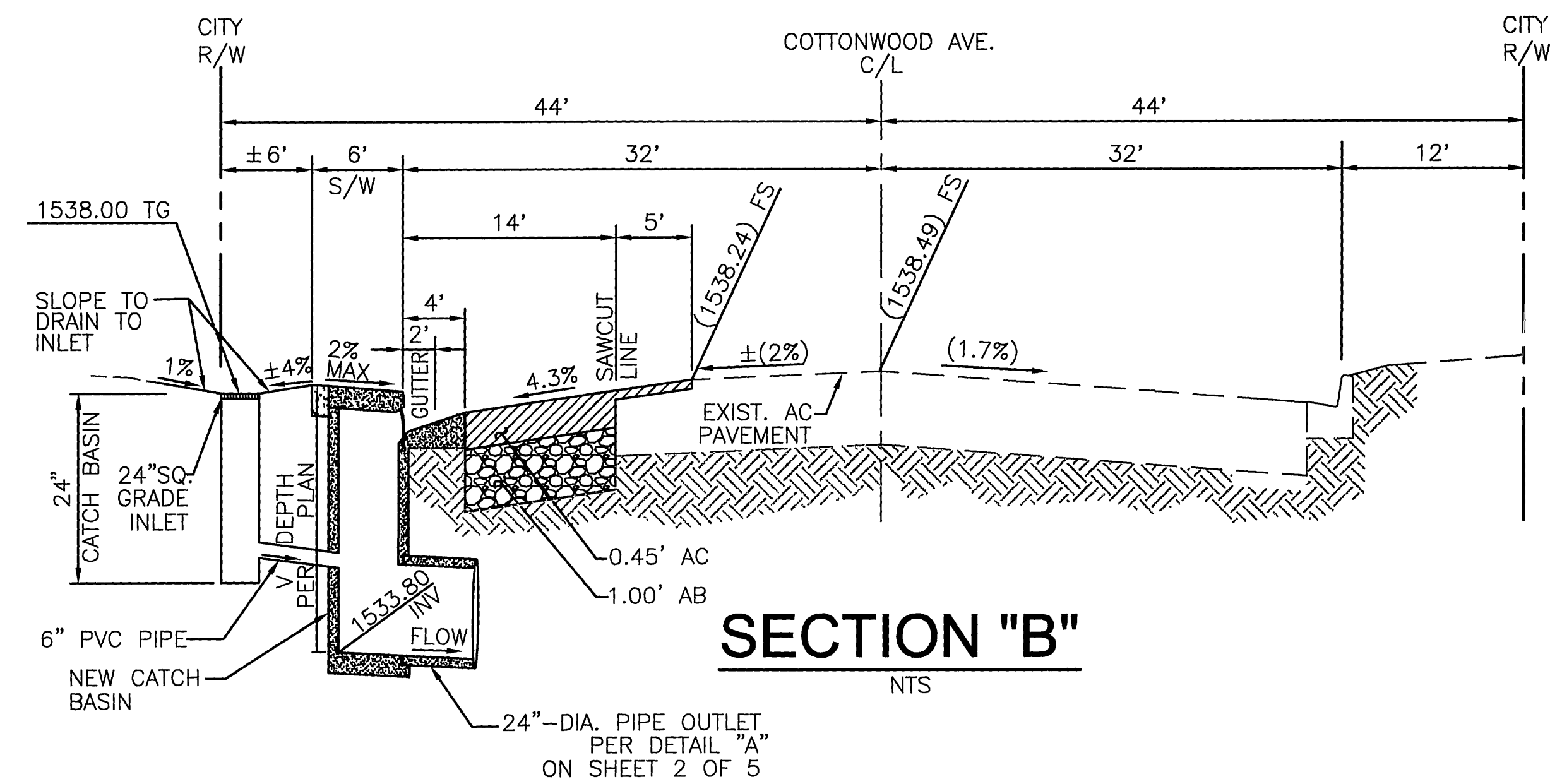
EXISTING ELEVATION DETAILS



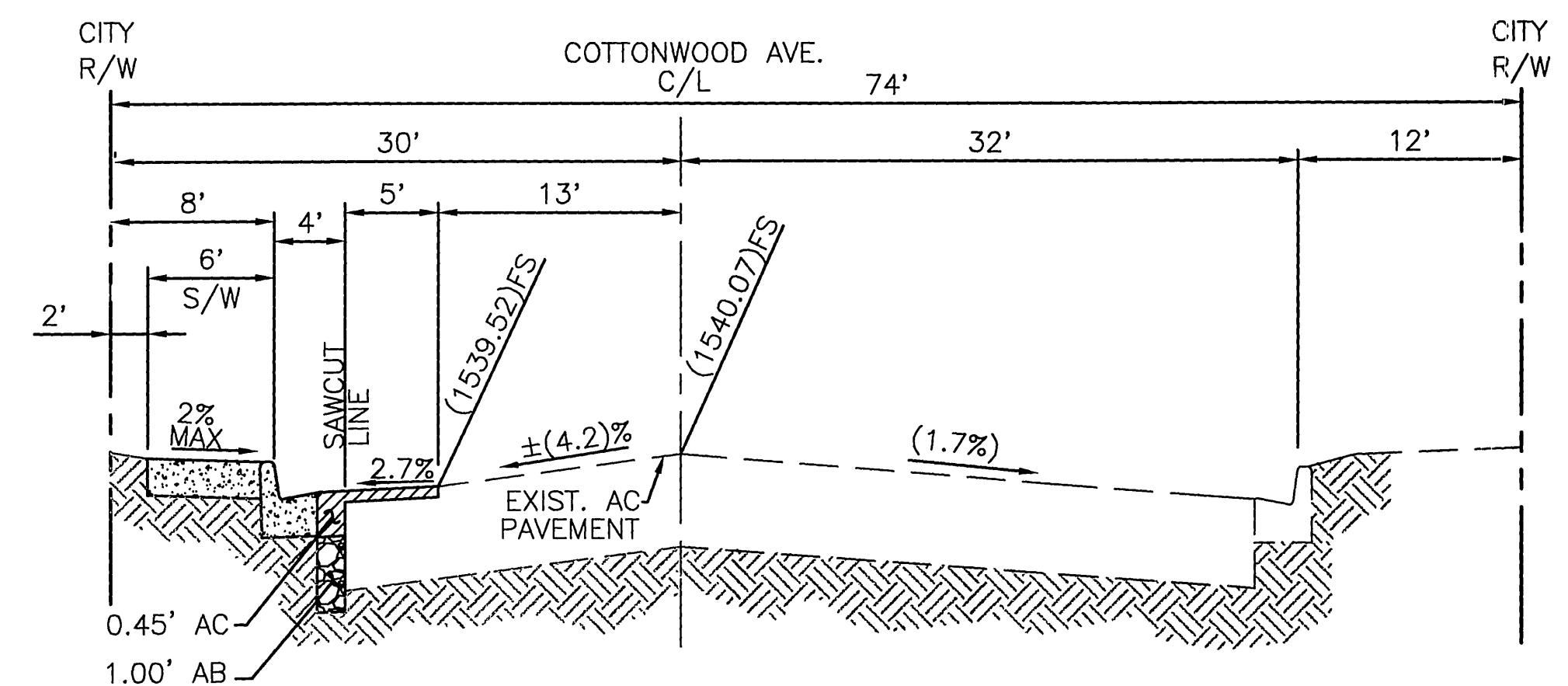
NOTE:
REFER TO SHEET
2 OF 5 FOR
CONSTRUCTION NOTES



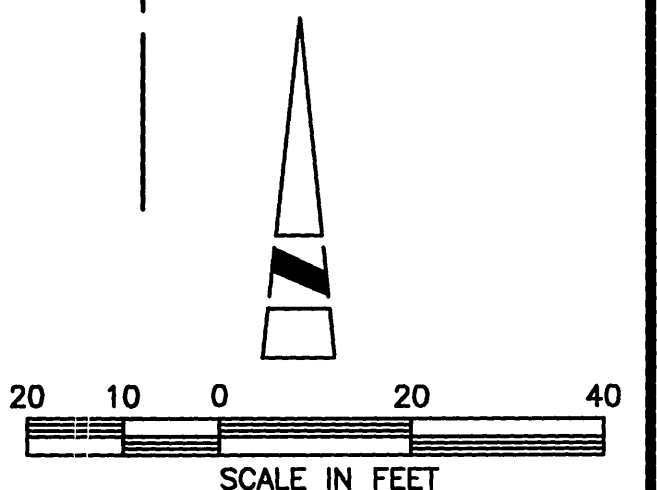
SECTION "A"
NTS



SECTION "B"
NTS



SECTION "C"
NTS



Basis of Bearings:
CALIF. STATE PLANE COORD. ZONE VI
NORTHING(N) & EASTING(E) COORDINATES
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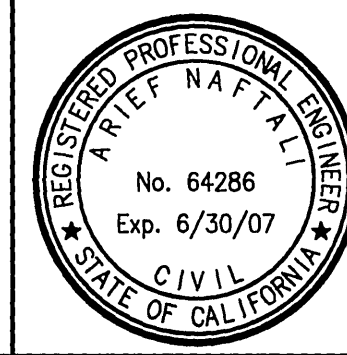
MARK	REVISIONS	APPR	DATE

CITY OF MORENO VALLEY APPROVALS

APPROVED BY	DATE	BY	DATE
[Signature]	9/6/06	[Signature]	9/6/06
[Signature]	9/6/06	[Signature]	9/6/06

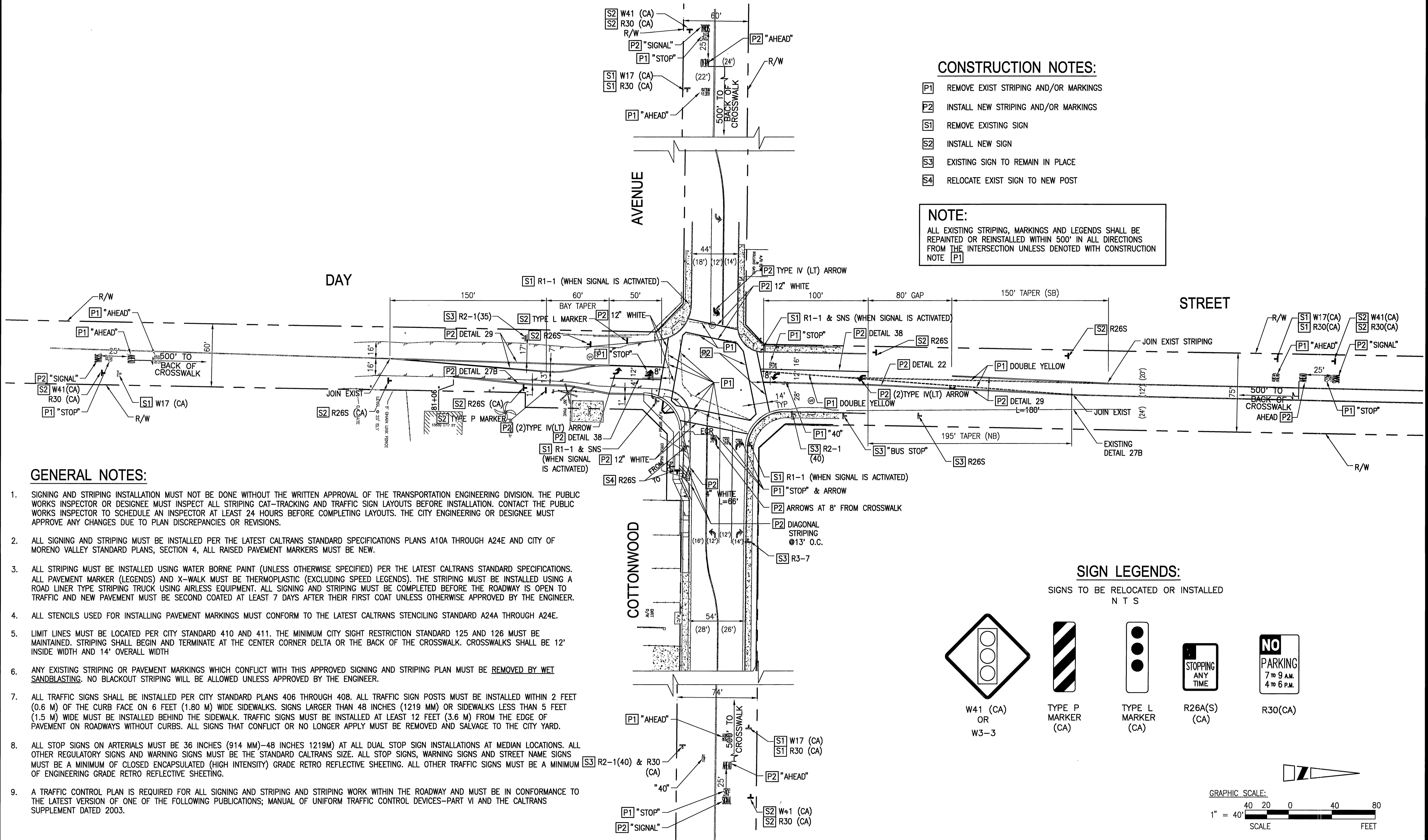
BOYLE ENGINEERING CORPORATION
1131 W. Sixth Street Suite 350
Ontario, California 91762
Ph. (909) 933-5225
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PREPARED UNDER SUPERVISION OF
[Signature]
ARIEF NAFTALI
RCE C6286
DATE 8/25/06
Exp. 6/30/07



STREET SECTIONS AND DETAILS
TRAFFIC SIGNAL IMPROVEMENTS
DAY ST. AT COTTONWOOD AVE.

ACC. No. 125.66824
X-522
SHEET **3** OF **5**
PROJECT No. 04-125.66824



CONSTRUCTION NOTES:

- P1 REMOVE EXIST STRIPING AND/OR MARKINGS
- P2 INSTALL NEW STRIPING AND/OR MARKINGS
- S1 REMOVE EXISTING SIGN
- S2 INSTALL NEW SIGN
- S3 EXISTING SIGN TO REMAIN IN PLACE
- S4 RELOCATE EXIST SIGN TO NEW POST

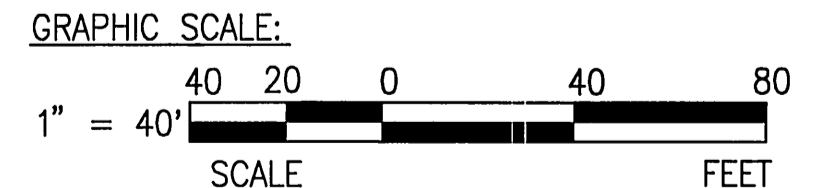
NOTE:
 ALL EXISTING STRIPING, MARKINGS AND LEGENDS SHALL BE REPAINTED OR REINSTALLED WITHIN 500' IN ALL DIRECTIONS FROM THE INTERSECTION UNLESS DENOTED WITH CONSTRUCTION NOTE P1

GENERAL NOTES:

1. SIGNING AND STRIPING INSTALLATION MUST NOT BE DONE WITHOUT THE WRITTEN APPROVAL OF THE TRANSPORTATION ENGINEERING DIVISION. THE PUBLIC WORKS INSPECTOR OR DESIGNEE MUST INSPECT ALL STRIPING CAT-TRACKING AND TRAFFIC SIGN LAYOUTS BEFORE INSTALLATION. CONTACT THE PUBLIC WORKS INSPECTOR TO SCHEDULE AN INSPECTOR AT LEAST 24 HOURS BEFORE COMPLETING LAYOUTS. THE CITY ENGINEERING OR DESIGNEE MUST APPROVE ANY CHANGES DUE TO PLAN DISCREPANCIES OR REVISIONS.
2. ALL SIGNING AND STRIPING MUST BE INSTALLED PER THE LATEST CALTRANS STANDARD SPECIFICATIONS PLANS A10A THROUGH A24E AND CITY OF MORENO VALLEY STANDARD PLANS, SECTION 4, ALL RAISED PAVEMENT MARKERS MUST BE NEW.
3. ALL STRIPING MUST BE INSTALLED USING WATER BORNE PAINT (UNLESS OTHERWISE SPECIFIED) PER THE LATEST CALTRANS STANDARD SPECIFICATIONS. ALL PAVEMENT MARKER (LEGENDS) AND X-WALK MUST BE THERMOPLASTIC (EXCLUDING SPEED LEGENDS). THE STRIPING MUST BE INSTALLED USING A ROAD LINER TYPE STRIPING TRUCK USING AIRLESS EQUIPMENT. ALL SIGNING AND STRIPING MUST BE COMPLETED BEFORE THE ROADWAY IS OPEN TO TRAFFIC AND NEW PAVEMENT MUST BE SECOND COATED AT LEAST 7 DAYS AFTER THEIR FIRST COAT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. ALL STENCILS USED FOR INSTALLING PAVEMENT MARKINGS MUST CONFORM TO THE LATEST CALTRANS STENCILING STANDARD A24A THROUGH A24E.
5. LIMIT LINES MUST BE LOCATED PER CITY STANDARD 410 AND 411. THE MINIMUM CITY SIGHT RESTRICTION STANDARD 125 AND 126 MUST BE MAINTAINED. STRIPING SHALL BEGIN AND TERMINATE AT THE CENTER CORNER DELTA OR THE BACK OF THE CROSSWALK. CROSSWALKS SHALL BE 12' INSIDE WIDTH AND 14' OVERALL WIDTH
6. ANY EXISTING STRIPING OR PAVEMENT MARKINGS WHICH CONFLICT WITH THIS APPROVED SIGNING AND STRIPING PLAN MUST BE REMOVED BY WET SANDBLASTING. NO BLACKOUT STRIPING WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
7. ALL TRAFFIC SIGNS SHALL BE INSTALLED PER CITY STANDARD PLANS 406 THROUGH 408. ALL TRAFFIC SIGN POSTS MUST BE INSTALLED WITHIN 2 FEET (0.6 M) OF THE CURB FACE ON 6 FEET (1.80 M) WIDE SIDEWALKS. SIGNS LARGER THAN 48 INCHES (1219 MM) OR SIDEWALKS LESS THAN 5 FEET (1.5 M) WIDE MUST BE INSTALLED BEHIND THE SIDEWALK. TRAFFIC SIGNS MUST BE INSTALLED AT LEAST 12 FEET (3.6 M) FROM THE EDGE OF PAVEMENT ON ROADWAYS WITHOUT CURBS. ALL SIGNS THAT CONFLICT OR NO LONGER APPLY MUST BE REMOVED AND SALVAGE TO THE CITY YARD.
8. ALL STOP SIGNS ON ARTERIALS MUST BE 36 INCHES (914 MM)-48 INCHES (1219M) AT ALL DUAL STOP SIGN INSTALLATIONS AT MEDIAN LOCATIONS. ALL OTHER REGULATORY SIGNS AND WARNING SIGNS MUST BE THE STANDARD CALTRANS SIZE. ALL STOP SIGNS, WARNING SIGNS AND STREET NAME SIGNS MUST BE A MINIMUM OF CLOSED ENCAPSULATED (HIGH INTENSITY) GRADE RETRO REFLECTIVE SHEETING. ALL OTHER TRAFFIC SIGNS MUST BE A MINIMUM OF ENGINEERING GRADE RETRO REFLECTIVE SHEETING.
9. A TRAFFIC CONTROL PLAN IS REQUIRED FOR ALL SIGNING AND STRIPING AND STRIPING WORK WITHIN THE ROADWAY AND MUST BE IN CONFORMANCE TO THE LATEST VERSION OF ONE OF THE FOLLOWING PUBLICATIONS; MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES-PART VI AND THE CALTRANS SUPPLEMENT DATED 2003.

SIGN LEGENDS:

SIGNS TO BE RELOCATED OR INSTALLED
 N T S

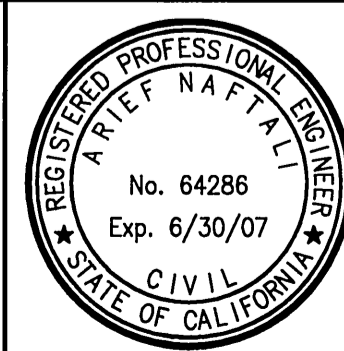


DIGALERT
 CALL THE FIRE
 1-800-227-2800
 2 Working Days Before You Dig

Basis of Bearings:	BENCH MARK:
CALIF. STATE PLANE COORD ZONE VI NORTHING(N) & EASTING(E) COORDINATES C/L COTTONWOOD AVE & DAY ST N:2281466.955 E:6249571.489 C/L COTTONWOOD AVE & GLORYBOWER N:2281468.172 E:6251361.774	CITY OF MORENO VALLEY RIV. CO. DESIGNATION: M-62-59 DATE: 1969.ELEV = 1551.102' BETWEEN ALESSANDRO BLVD. & SHERMAN AV. ON DAY ST. 180 FEET S. OF SHERMAN AV., 49 FT EAST OF DAY ST 28 FEET NE OF PP #75208 C.W.T. 2 FEET NORTHWEST OF THE SW CORNER OF A 6 FT CHAIN LINK FENCE, 1 FT N. OF A MARKER POST, A BRASS DISK STAMPED M-62-59 IN THE TOP OF A CONCRETE POST.

CITY OF MORENO VALLEY APPROVALS			
APPROVED BY	DATE	BY	DATE
SUPERVISING SENIOR ENGINEER	9/6/06	NRK	9/6/06
CITY TRAFFIC ENGINEER	8/31/06	NRK	8/31/06
MAINTENANCE AND OPERATIONS MANAGER	8/1/06	NRK	8/1/06
SENIOR ENGINEER	8/30/06	NRK	8/30/06
DESIGNED BY	TZ	DRAWN BY	GG
CHECKED BY	AN		

BOYLE ENGINEERING CORPORATION
 PREPARED UNDER SUPERVISION OF
 ARIEF NAFTALI
 RCE 64286
 DATE 8/25/06
 Exp. 6/30/07



SIGNING AND STRIPING PLAN
TRAFFIC SIGNAL IMPROVEMENTS
 DAY ST. AT COTTONWOOD AVE.

ACC. No. 125.66824
 X-522
 SHEET 4 OF 5
 PROJECT No. 04-123.66824

CONDUCTOR AND CONDUIT SCHEDULE

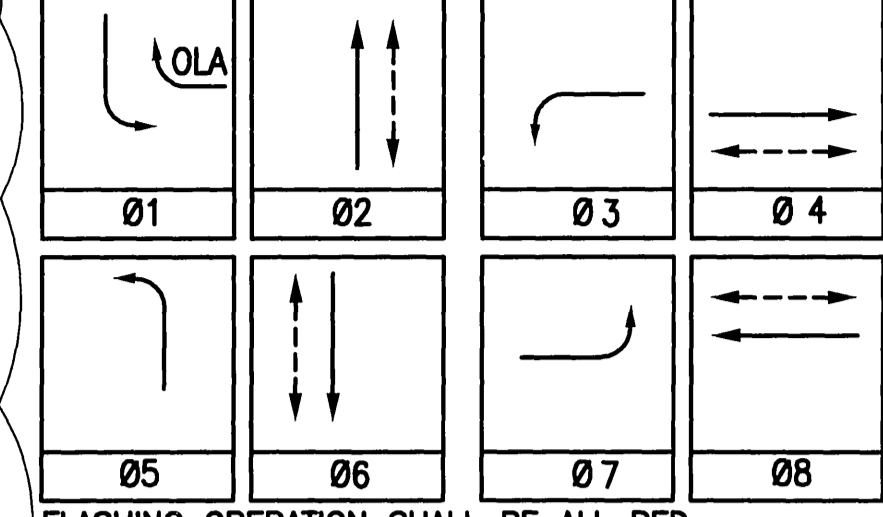
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#14	Ø1	-	-	-	-	-	3	3	3	3	-
	Ø1 OVERLAP (OLA)	2	2	2	2	-	-	-	2	2	-
	Ø2	-	-	3	3	-	-	-	3	6	6
	Ø3	3	3	3	3	3	3	3	6	6	-
	Ø4	-	-	-	-	-	3	3	3	3	-
	Ø5	-	3	3	3	-	-	-	3	3	-
	Ø6	-	3	3	3	-	3	3	6	6	-
	Ø7	-	-	-	3	-	-	-	3	3	-
	Ø8	3	3	3	3	-	-	-	3	3	-
	Ø2 P	-	-	2	2	-	-	-	2	4	4
Ø4 P	-	-	-	-	2	2	2	2	2	-	-
Ø6 P	-	2	2	2	-	2	2	4	4	-	-
Ø8 P	2	2	2	2	-	-	-	2	2	-	-
Ø2 PPB	-	-	1	1	-	-	-	1	1	-	-
Ø4 PPB	-	-	-	-	1	1	1	1	1	-	-
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Ø8 PPB	-	1	1	1	-	-	-	1	1	-	-
PPB COMMON	1	1	1	1	1	1	1	2	2	-	-
SPARES	3	3	3	3	3	3	3	6	6	-	-
TOTAL	15	24	29	33	13	22	27	60	60	-	-
#12	HOLIDAY DECO	2	2	2	2	-	2	2	4	-	-
	HSNS	2	2	2	2	-	2	2	4	-	-
	TOTAL	4	4	4	4	-	4	4	8	-	-
#10	SIGNAL COMMON	1	1	1	1	1	1	2	2	-	-
	LUMINAIRE	2	2	2	2	-	-	-	2	4	-
TOTAL	3	3	3	3	1	3	3	6	2	-	-
DLC	Ø1	-	1	1	1	-	-	-	-	-	-
	Ø2	-	-	-	-	-	2	-	-	-	2
	Ø3	-	-	-	-	1	-	-	-	-	1
	Ø4	-	-	-	-	2	2	2	-	-	2
	Ø5	-	-	-	-	-	1	-	-	-	1
	Ø6	-	2	2	2	-	-	-	-	-	2
	Ø7	-	-	-	-	1	1	1	-	-	1
	Ø8	-	-	-	3	-	-	-	-	-	3
TOTAL	-	3	3	7	3	3	6	-	-	13	
OPTICOM CABLE (FOR FUTURE)	1	2	2	-	1	1	4	4	-	-	
CONDUIT SIZE	3"	3"	3"	4"	3"	3"	3"	2-4-2-4"	4"	-	

ALL CONDUITS AND CONDUCTORS ARE NEW

GENERAL NOTES:

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- THE CONTRACTOR SHALL EXCAVATE INSPECTION HOLES (POT HOLES) AND DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND STRUCTURES AND UTILITIES THAT ARE IN THE VICINITY OF OR THAT MAY BE AFFECTED BY THE PROPOSED IMPROVEMENT WORK PRIOR TO ANY CONSTRUCTION WORK WHICH COULD DAMAGE OR CONFLICT WITH SAID STRUCTURES OR UTILITIES. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THE IMPROVEMENTS CONFLICT WITH EXISTING FACILITIES.
- ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON. SEE STRIPING AND SIGNING PLAN.
- SEE CALTRANS STANDARD PLANS ES-1A AND ES-1B FOR SYMBOL AND ABBREVIATION LEGEND.
- EXACT EQUIPMENT AND DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY THE CITY OF MORENO VALLEY TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY THE CONTRACTOR.
- ALL SIGNAL HEADS AND BACKPLATES SHALL BE METAL. ALL LENSES SHALL BE LED, INCLUDING THE PED INDICATIONS. (SEE SPECIAL PROVISIONS FOR DETAIL).
- LEFT TURN HEADS SHALL HAVE RED, YELLOW AND GREEN LED ARROWS. ALL VEHICLE INDICATIONS SHALL BE 12" WITH FULL CIRCLE VISORS. PEDESTRIAN INDICATION SHALL BE INTERNATIONAL SYMBOL TYPE 'C'. PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT.
- ALL PULL BOXES SHALL BE #6 UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL. ALL PULLBOXES SHALL BE IN THE PAVED SIDEWALK AREA

PROPOSED PHASE DIAGRAM

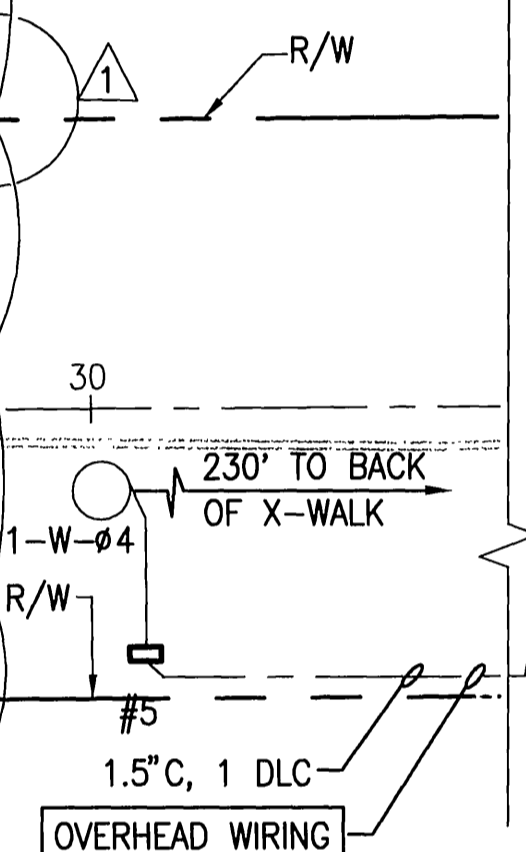


FLASHING OPERATION SHALL BE ALL RED.

UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD UNDERGROUND HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERGROUNDS. NOT INDICATED ON THE PUBLIC RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

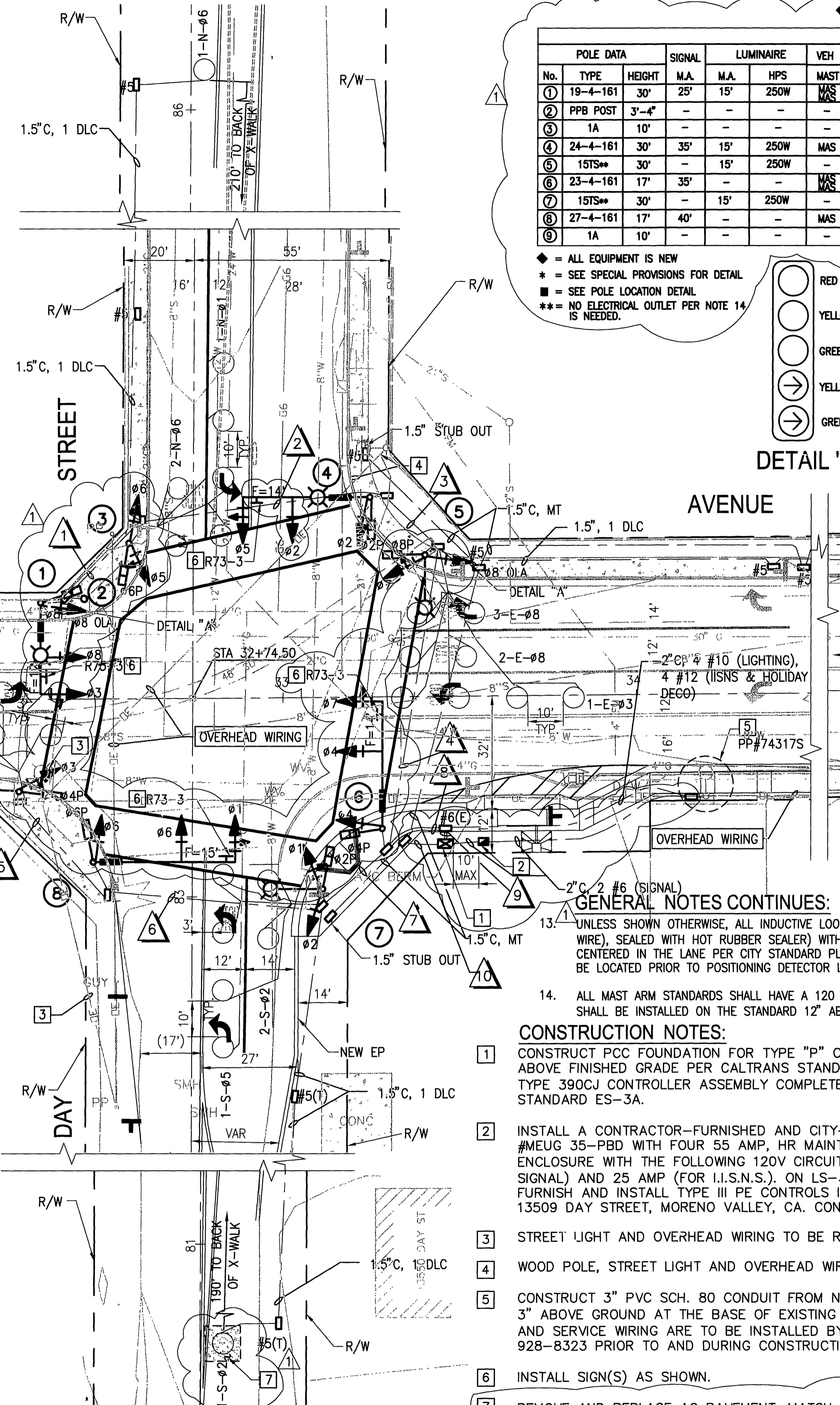
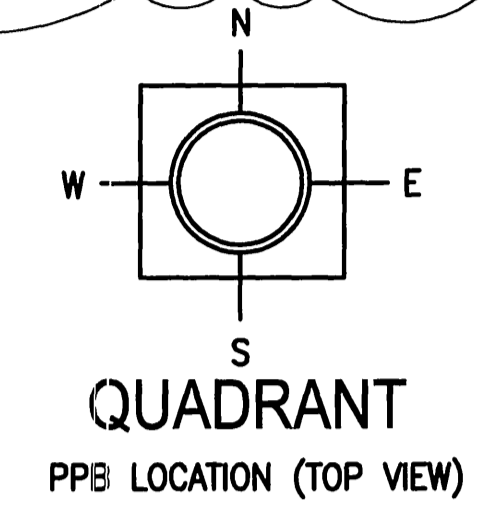
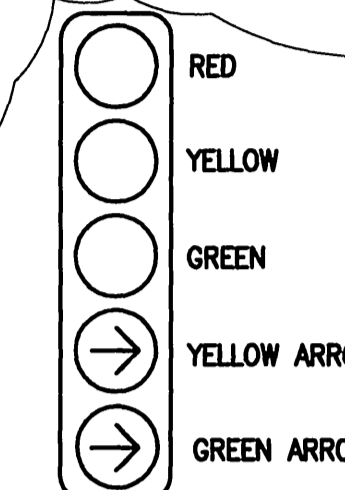
COTTONWOOD



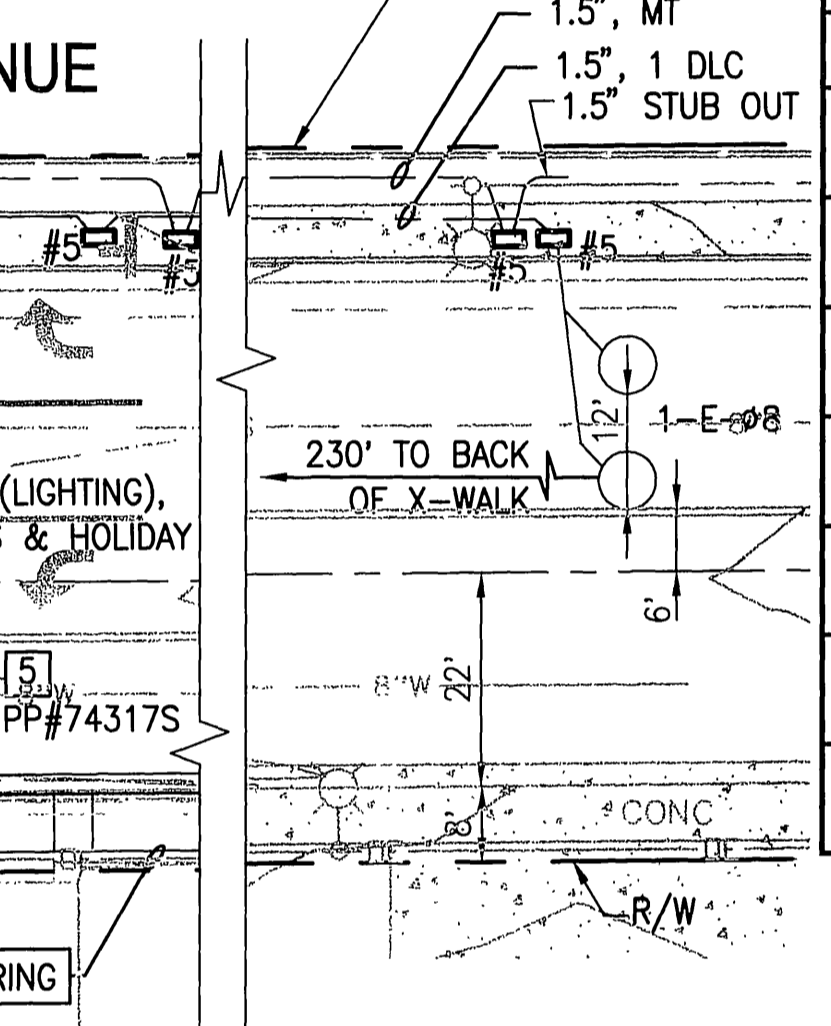
POLE SCHEDULE

NO.	TYPE	HEIGHT	SIGNAL	M.A.	M.A.	HPS	VEH SIG	MTG	PED SIG	P.P.B.	PHASE	QUAD	I.I.S.N.S. (DBL SIGN)	POLE LOC	POLE MOUNTED SIGNS	
①	19-4-161	30'	25'	15'	250W	MAS	SV-1-T	SP-1-T					Day St*	-	6' 4.5'	-
②	PPB POST	3'-4"									6	E		8'	5'	-
③	1A	10'					TV-2-T	SP-1-T			8	S		4'	5'	-
④	24-4-161	30'	35'	15'	250W	MAS	SV-1-T	SP-1-T			8	S	Cottonwood Ave*	12'	4'	-
⑤	15TS**	30'		15'	250W		SV-2-TA	SP-1-T			2	W		12'	4'	-
⑥	23-4-161	17'	35'			MAS	SV-1-T	SP-1-T			2	W	Day St*	11'	3'	-
⑦	15TS**	30'		15'	250W		SV-2-TA	SP-1-T			4	N		13'	4'	-
⑧	27-4-161	17'	40'			MAS	SV-1-T	SP-1-T			4	N	Cottonwood Ave*	11'	4'	-
⑨	1A	10'					TV-2-T	SP-1-T			6	E		8'	3'	-

- ◆ = ALL EQUIPMENT IS NEW
- * = SEE SPECIAL PROVISIONS FOR DETAIL
- = SEE POLE LOCATION DETAIL
- *** = NO ELECTRICAL OUTLET PER NOTE 14 IS NEEDED.

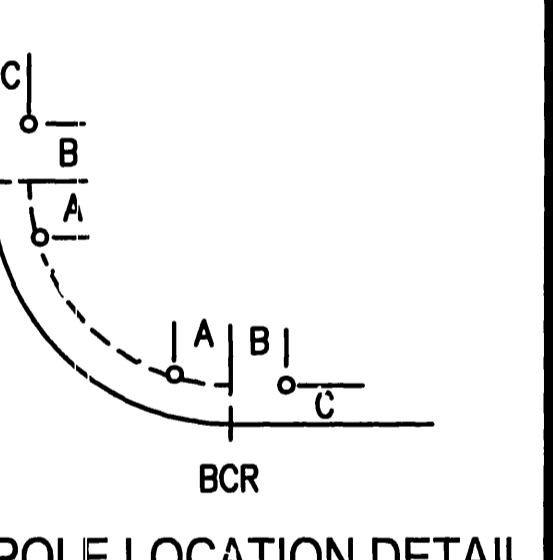


DETAIL "A"



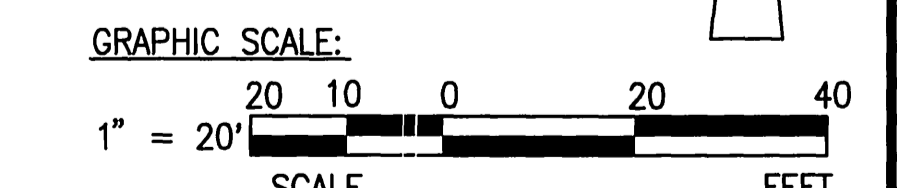
DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
#1	1	1-W-Ø4	1	CALL HOLD
	2	2-W-Ø4	2	NORMAL
#2	1	1-W-Ø7	4	NORMAL
	2	1-E-Ø3	4	NORMAL
#3	1	1-E-Ø8	2	CALL HOLD
	2	2-E-Ø8	2	NORMAL
#4	1	1-N-Ø6	1	CALL HOLD
	2	2-N-Ø6	2	NORMAL
#5	1	1-S-Ø2	1	CALL HOLD
	2	2-S-Ø2	2	NORMAL
#6	1	3-E-Ø8	1	DELAY
	2	-	-	-
#7	1	1-S-Ø5	4	NORMAL
	2	1-N-Ø1	4	NORMAL



GENERAL NOTES CONTINUES:

- UNLESS SHOWN OTHERWISE, ALL INDUCTIVE LOOPS SHALL BE 6' ROUND (4 TURNS OF TYPE 2 WIRE), SEALED WITH HOT RUBBER SEALER) WITH 10' SPACING IN THE DIRECTION OF TRAVEL, CENTERED IN THE LANE PER CITY STANDARD PLAN 420 & 421. ALL NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTOR LOOPS.
- ALL MAST ARM STANDARDS SHALL HAVE A 120 VOLT, SINGLE WATERPROOF ELECTRICAL OUTLET AND SHALL BE INSTALLED ON THE STANDARD 12" ABOVE THE SIGNAL ARM ON MAST ARM SIDE OF SHAFT.
- CONSTRUCT PCC FOUNDATION FOR TYPE "P" CONTROLLER CABINET AND EXTEND FOUNDATION 18" ABOVE FINISHED GRADE PER CALTRANS STANDARD PLAN ES-3C. FURNISH AND INSTALL AN 8 PHASE TYPE 390CJ CONTROLLER ASSEMBLY COMPLETE IN TYPE "P" CONTROLLER CABINET PER CALTRANS STANDARD ES-3A.
- INSTALL A CONTRACTOR-FURNISHED AND CITY-TESTED 120/240 VOLT DUAL METER TYPE III-CF MODEL #MEUC 35-PBD WITH FOUR 55 AMP, HR MAINTENANCE FREE BATTERIES. SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING 120V CIRCUIT BREAKERS: ON TC-1 METER: 50 AMP (FOR TRAFFIC SIGNAL) AND 25 AMP (FOR I.I.S.N.S.). ON LS-3 METER: 30 AMP (FOR INTERSECTION LIGHTING). ALSO FURNISH AND INSTALL TYPE III PE CONTROLS IN SERVICE EQUIPMENT ENCLOSURE. METER ADDRESS: 13509 DAY STREET, MORENO VALLEY, CA. CONSTRUCT FOUNDATION COMPLETE.
- STREET LIGHT AND OVERHEAD WIRING TO BE REMOVED BY SCE.
- WOOD POLE, STREET LIGHT AND OVERHEAD WIRING TO BE REMOVED BY SCE.
- CONSTRUCT 3" PVC SCH. 80 CONDUIT FROM NEW SERVICE ENCLOSURE TO PULLBOX, INSTALL SWEEP TO 3" ABOVE GROUND AT THE BASE OF EXISTING PP# 743178 PER SCE REQUIREMENTS. CONDUIT RISER AND SERVICE WIRING ARE TO BE INSTALLED BY SCE. COORDINATE WITH MS. KRISTEN BARBEE (951) 928-8323 PRIOR TO AND DURING CONSTRUCTION.
- INSTALL SIGN(S) AS SHOWN.
- REMOVE AND REPLACE AC PAVEMENT, MATCH WITH EXISTING (10'x10')



<p>DIGALERT</p> <p>CALL 811</p> <p>1-800-227-2600</p> <p>2 Working Days Before You Dig</p>	<p>Basis of Bearings:</p> <p>CALIF. STATE PLANE COORD ZONE VI NORTHING(N) & EASTING(E) COORDINATES</p> <p>C/A. COTTONWOOD AVE & DAY ST N:2281466.955 E:6249571.489</p> <p>C/A. COTTONWOOD AVE & GLODYBOWER N:2281468.172 E:6251361.774</p>	<p>BENCH MARK:</p> <p>CITY OF MORENO VALLEY</p> <p>RIV. CO. DESIGNATION: M-62-59 DATE: 1969 ELEV = 1551.102'</p> <p>BETWEEN ALESSANDRO BLVD. & SHERMAN AV. ON DAY ST. 190 FEET S. OF SHERMAN AV. 49 FT EAST OF DAY ST 28 FEET NE OF PP #75208 C.W.T. 2 FEET NORTHWEST OF THE SW CORNER OF A 6 FT CHAIN LINK FENCE. 1 FT N. OF A MARKER POST, A BRASS DISK STAMPED M-62-59 IN THE TOP OF A CONCRETE POST.</p>	<p>REVISIONS TO POLE SCHEDULE AND NORTHBOUND ADVANCE DETECTOR</p> <p>AC REMOVAL AND REPLACEMENT</p> <p>SOME REVISION TO WIRING AROUND CONTROLLER CABINET/SERVICE ENCL.</p> <table border="1"> <thead> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MARK	REVISIONS	APPR DATE				<p>CITY OF MORENO VALLEY APPROVALS</p> <table border="1"> <tr> <td>APPROVED BY: <i>[Signature]</i></td> <td>DATE: 5/10/07</td> </tr> <tr> <td>BY: <i>[Signature]</i></td> <td>DATE: 5/10/07</td> </tr> <tr> <td>SUPERVISING SENIOR ENGINEER</td> <td></td> </tr> <tr> <td>CITY TRAFFIC ENGINEER</td> <td></td> </tr> <tr> <td>MAINTENANCE AND OPERATIONS MANAGER</td> <td></td> </tr> <tr> <td>PUBLIC WORKS DIRECTOR/CITY ENGINEER</td> <td></td> </tr> </table>	APPROVED BY: <i>[Signature]</i>	DATE: 5/10/07	BY: <i>[Signature]</i>	DATE: 5/10/07	SUPERVISING SENIOR ENGINEER		CITY TRAFFIC ENGINEER		MAINTENANCE AND OPERATIONS MANAGER		PUBLIC WORKS DIRECTOR/CITY ENGINEER		<p>BOYLE ENGINEERING CORPORATION</p> <p>1131 W. Sixth Street Suite 350 Ontario, California 91762 Ph. (909) 933-5225 Fax. (909) 933-5228 WWW.BOYLEENGINEERING.COM</p>	<p>PREPARED UNDER SUPERVISION OF</p> <p><i>[Signature]</i></p> <p>ARIEF NAFTALI</p> <p>RCE C64286</p> <p>DATE: 4/24/07</p> <p>Exp: 6/30/07</p>	<p>TRAFFIC SIGNAL PLAN</p> <p>ACC. No. 125.66824</p>
	MARK	REVISIONS	APPR DATE																						
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				<p>PROJECT No. 04-125.66824</p>																					

CONDUCTOR AND CONDUIT SCHEDULE

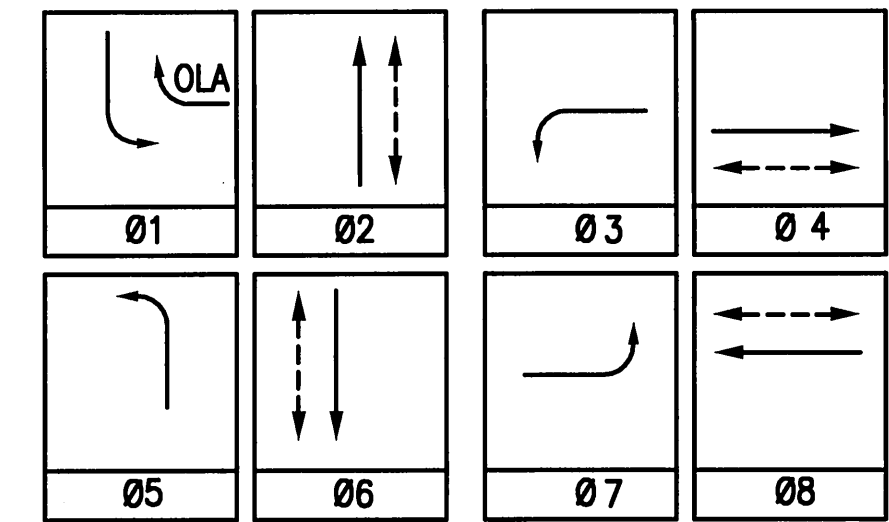
AWG	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9
	Ø1	-	-	-	-	3	3	3	3	
	Ø1 OVERLAP (OLA)	2	2	2	2	-	-	-	2	2
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	Ø3	3	3	3	3	3	3	3	6	6
	Ø4	-	-	-	-	3	3	3	3	3
	Ø5	-	3	3	3	-	-	-	3	3
	Ø6	-	3	3	3	-	3	3	6	6
	Ø7	-	-	-	3	-	-	-	3	3
	Ø8	3	3	3	3	-	-	-	3	3
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	Ø8 P	2	2	2	2	-	-	-	2	2
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	Ø4 PPB	-	-	-	-	1	1	1	1	1
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	Ø3	-	-	-	1	-	-	-	1	1
	Ø4	-	-	-	-	2	2	2	2	2
	Ø5	-	-	-	-	-	-	-	1	1
	Ø6	-	2	2	2	-	-	-	2	2
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	TOTAL	-	3	3	7	3	3	6	13	13
	OPTICOM CABLE (FOR FUTURE USE)	-	1	2	2	-	-	-	1	4
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- REQUEST FOR INSPECTION TO THE CITY OF RIVERSIDE SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE THE SERVICES THEREOF WILL BE REQUIRED.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC. FAILURE TO COMPLY WILL BE A VIOLATION OF THE CONTRACT. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENCES AND BUSINESSES.
- THE CONTRACTOR SHALL EXCAVATE INSPECTION HOLES (POT HOLES) AND DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND STRUCTURES AND UTILITIES THAT ARE IN THE VICINITY OF OR THAT MAY BE AFFECTED BY THE PROPOSED IMPROVEMENT WORK PRIOR TO ANY CONSTRUCTION WORK WHICH COULD DAMAGE OR CONFLICT WITH SAID STRUCTURES OR UTILITIES. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITIES DAMAGED BY HIS OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THE IMPROVEMENTS CONFLICT WITH EXISTING FACILITIES.
- ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED TURN ON. SEE STRIPING AND SIGNING PLAN.
- SEE CALTRANS STANDARD PLANS ES-1A AND ES-1B FOR SYMBOL AND ABBREVIATION LEGEND.
- EXACT EQUIPMENT AND DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY THE CITY OF MORENO VALLEY TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY THE CONTRACTOR.
- ALL SIGNAL HEADS AND BACKPLATES SHALL BE METAL. ALL LENSES SHALL BE LED, INCLUDING THE PED INDICATIONS. (SEE SPECIAL PROVISIONS FOR DETAIL).
- LEFT TURN HEADS SHALL HAVE RED, YELLOW AND GREEN LED ARROWS. ALL VEHICLE INDICATIONS SHALL BE 12" WITH FULL CIRCLE VISORS. PEDESTRIAN INDICATION SHALL BE INTERNATIONAL SYMBOL TYPE "C". PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT.
- ALL PULL BOXES SHALL BE #6 UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL. ALL PULLBOXES SHALL BE IN THE PAVED SIDEWALK AREA

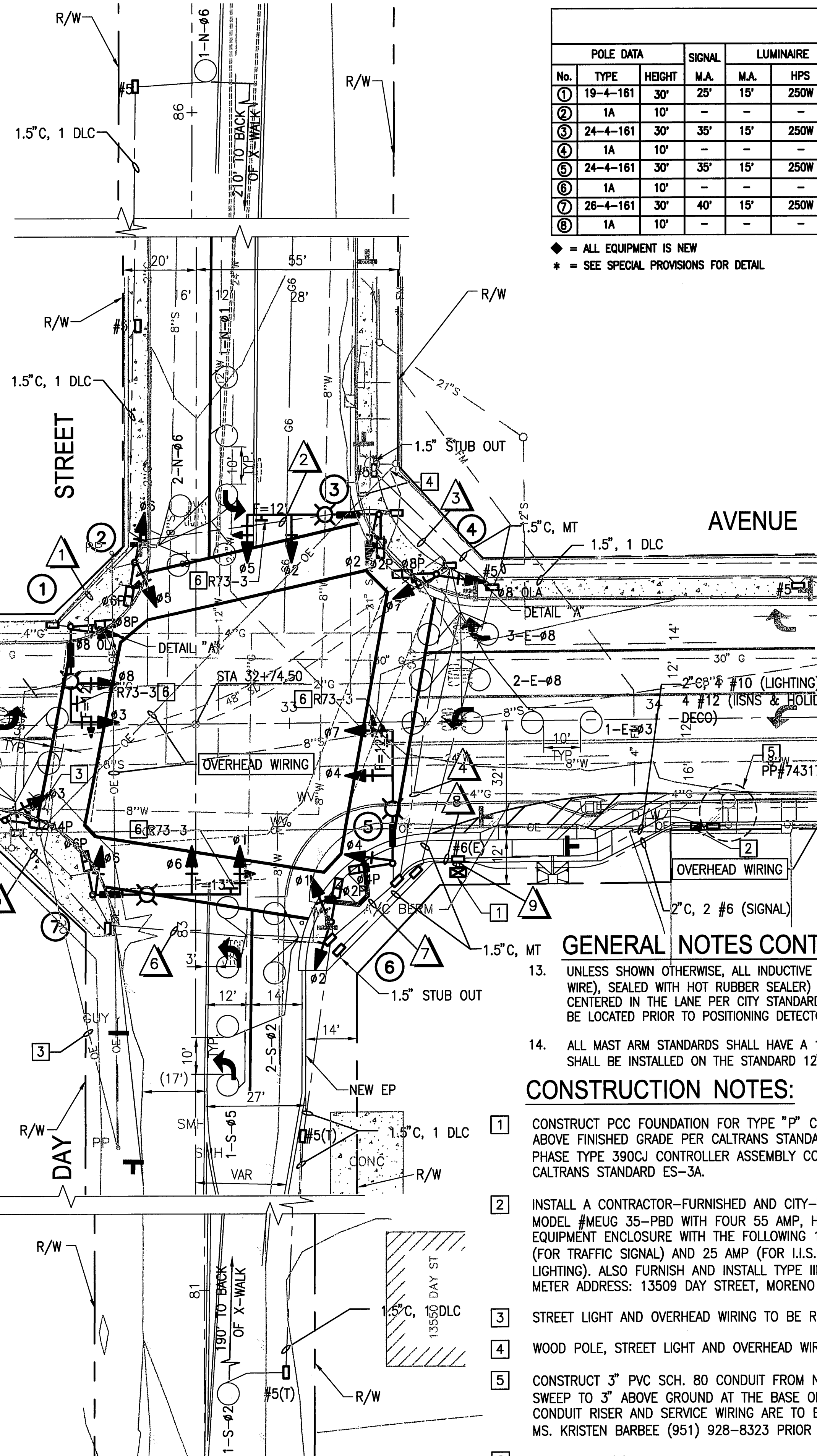
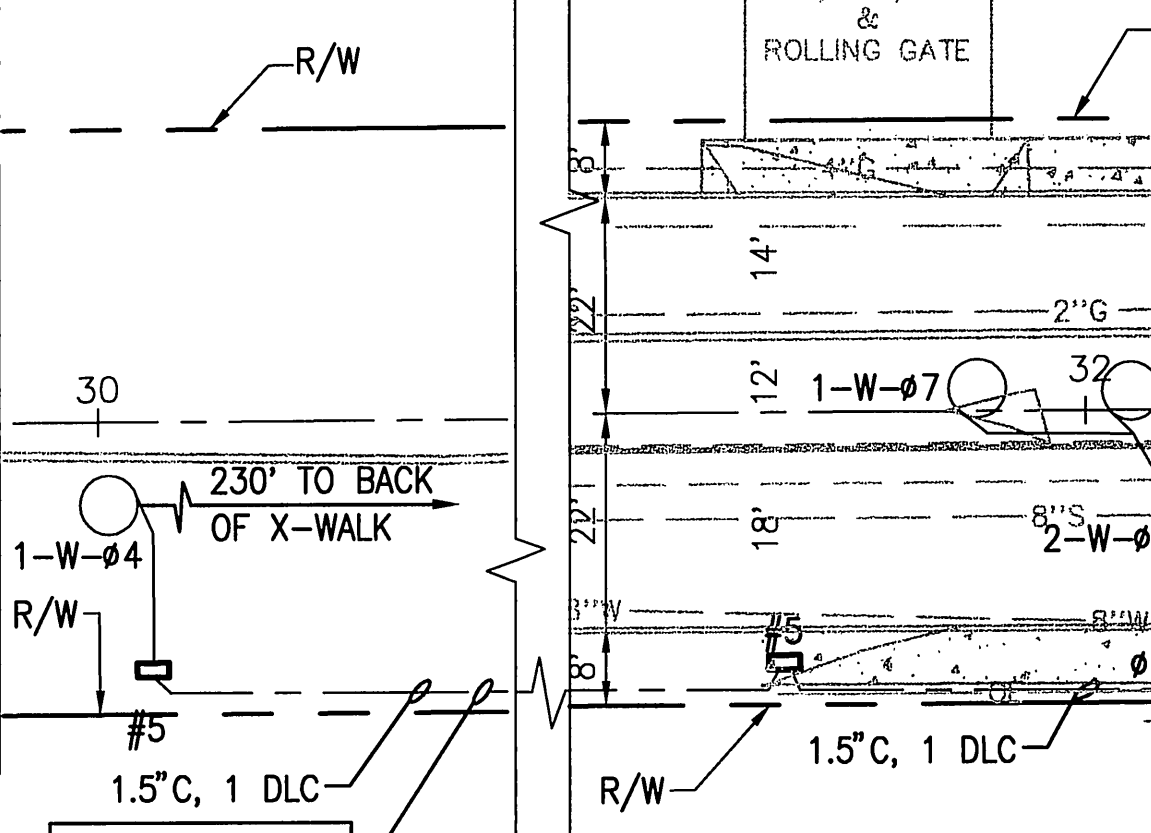
PROPOSED PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

UNDERGROUND STRUCTURES
ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT HERETO AGREES TO ASSUME LIABILITY AND TO HOLD UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERWRITER. NOT INDICATED ON THE PUBLIC RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

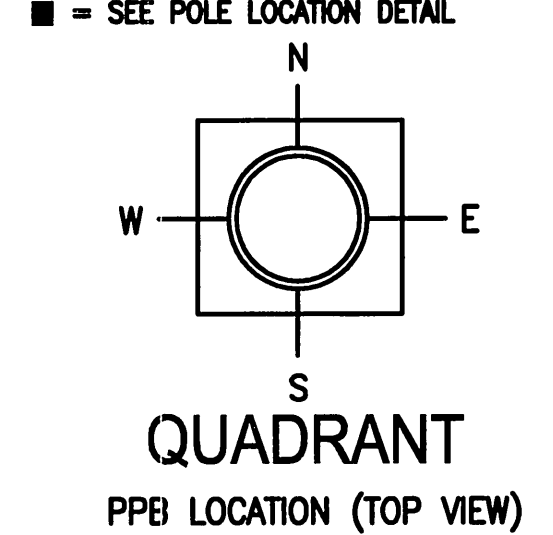
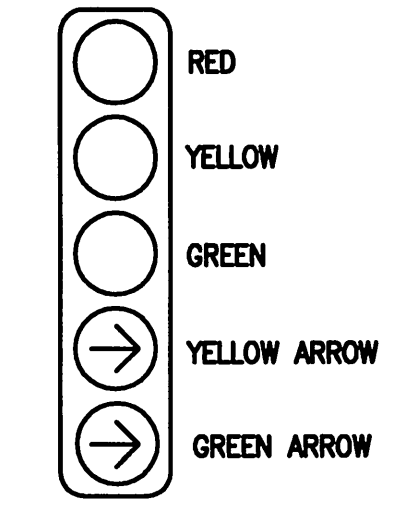
COTTONWOOD



◆ POLE SCHEDULE

No.	TYPE	HEIGHT	LUMINAIRE			VEH SIG	MTG	PED SIG	P.P.B.	I.I.S.N.S.			POLE LOC	POLE MOUNTED	
			M.A.	M.A.	HPS					(DBL SIGN)	A	B			C
①	19-4-161	30'	25'	15'	250W	MAS	SV-1-T	SP-1-T	6	E		Day St*	3'	-	4'
②	1A	10'	-	-	-	-	TV-2-T	SP-1-T	8	S			4'	-	4'
③	24-4-161	30'	35'	15'	250W	MAS	SV-1-T	SP-1-T	8	S		Cottonwood Ave	12'	-	4'
④	1A	10'	-	-	-	-	TV-2-T	SP-1-T	2	W		Day St*	11'	-	4'
⑤	24-4-161	30'	35'	15'	250W	MAS	SV-1-T	SP-1-T	2	W			13'	-	4'
⑥	1A	10'	-	-	-	-	TV-2-T	SP-1-T	4	N		Cottonwood Ave	11'	-	4'
⑦	26-4-161	30'	40'	15'	250W	MAS	SV-1-T	SP-1-T	4	N			5'	-	3'
⑧	1A	10'	-	-	-	-	TV-2-T	SP-1-T	6	E					

◆ = ALL EQUIPMENT IS NEW
* = SEE SPECIAL PROVISIONS FOR DETAIL



DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
#1	1	1-W-Ø4	1	CALL HOLD
	2	2-W-Ø4	2	NORMAL
#2	1	1-W-Ø7	4	NORMAL
	2	1-E-Ø3	4	NORMAL
#3	1	1-E-Ø8	2	CALL HOLD
	2	2-E-Ø8	2	NORMAL
#4	1	1-N-Ø6	1	CALL HOLD
	2	2-N-Ø6	2	NORMAL
#5	1	1-S-Ø2	1	CALL HOLD
	2	2-S-Ø2	2	NORMAL
#6	1	3-E-Ø8	1	DELAY
	2	-	-	-
#7	1	1-S-Ø5	4	NORMAL
	2	1-N-Ø1	4	NORMAL

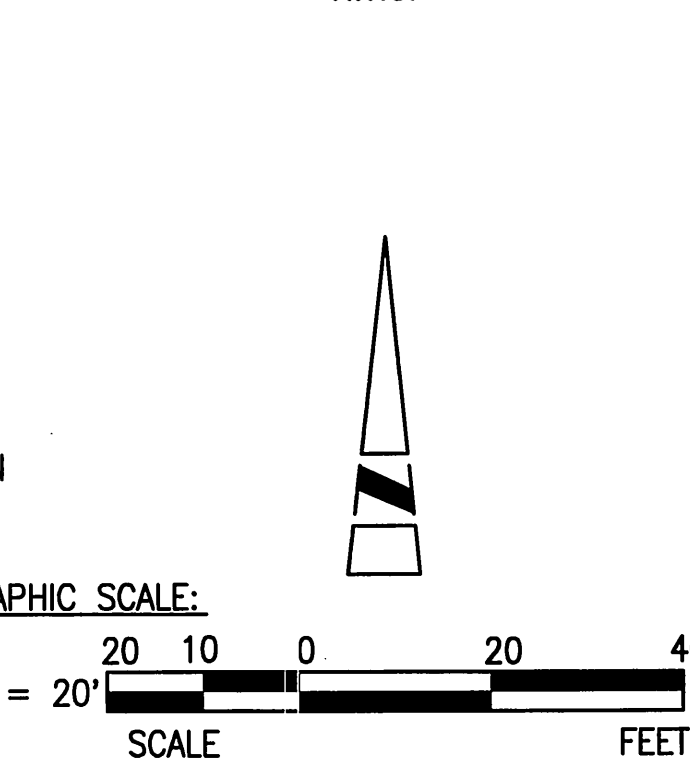
GENERAL NOTES CONTINUES:

- UNLESS SHOWN OTHERWISE, ALL INDUCTIVE LOOPS SHALL BE 6" ROUND (4 TURNS OF TYPE 2 WIRE), SEALED WITH HOT RUBBER SEALER) WITH 10' SPACING IN THE DIRECTION OF TRAVEL, CENTERED IN THE LANE PER CITY STANDARD PLAN 420 & 421. ALL NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTOR LOOPS.
- ALL MAST ARM STANDARDS SHALL HAVE A 120 VOLT, SINGLE WATERPROOF ELECTRICAL OUTLET AND SHALL BE INSTALLED ON THE STANDARD 12" ABOVE THE SIGNAL ARM ON MAST ARM SIDE OF SHAFT.

CONSTRUCTION NOTES:

- CONSTRUCT PCC FOUNDATION FOR TYPE "P" CONTROLLER CABINET AND EXTEND FOUNDATION 18" ABOVE FINISHED GRADE PER CALTRANS STANDARD PLAN ES-3C. FURNISH AND INSTALL AN 8 PHASE TYPE 390CJ CONTROLLER ASSEMBLY COMPLETE IN TYPE "P" CONTROLLER CABINET PER CALTRANS STANDARD ES-3A.
- INSTALL A CONTRACTOR-FURNISHED AND CITY-TESTED 120/240 VOLT DUAL METER TYPE III-CF MODEL #MEUG 35-PBD WITH FOUR 55 AMP, HR MAINTENANCE FREE BATTERIES. SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING 120V CIRCUIT BREAKERS: ON TC-1 METER: 50 AMP (FOR TRAFFIC SIGNAL) AND 25 AMP (FOR I.I.S.N.S.). ON LS-3 METER: 30 AMP (FOR INTERSECTION LIGHTING). ALSO FURNISH AND INSTALL TYPE III PE CONTROLS IN SERVICE EQUIPMENT ENCLOSURE. METER ADDRESS: 13509 DAY STREET, MORENO VALLEY, CA. CONSTRUCT FOUNDATION COMPLETE.
- STREET LIGHT AND OVERHEAD WIRING TO BE REMOVED BY SCE.
- WOOD POLE, STREET LIGHT AND OVERHEAD WIRING TO BE REMOVED BY SCE.
- CONSTRUCT 3" PVC SCH. 80 CONDUIT FROM NEW SERVICE ENCLOSURE TO PULLBOX, INSTALL SWEEP TO 3" ABOVE GROUND AT THE BASE OF EXISTING PP# 74317S PER SCE REQUIREMENTS. CONDUIT RISER AND SERVICE WIRING ARE TO BE INSTALLED BY SCE. COORDINATE WITH MS. KRISTEN BARBEE (951) 928-8323 PRIOR TO AND DURING CONSTRUCTION.
- INSTALL SIGN(S) AS SHOWN.

POLE LOCATION DETAIL
N.T.S.



Basis of Bearings:	BENCH MARK:
CALIF. STATE PLANE COORD ZONE VI NORTHING(N) & EASTING(E) COORDINATES C/L COTTONWOOD AVE & DAY ST N:2281466.955 E:6249571.489	CITY OF MORENO VALLEY RIV. CO. DESIGNATION: M-62-59 DATE: 1969, ELEV = 1551.102' BETWEEN ALESSANDRO BLVD. & SHERMAN AV. 49 FT EAST OF DAY ST 28 FEET NE OF PP #75208 C.W.T. 2 FEET NORTHWEST OF THE SW CORNER OF A 6 FT CHAIN LINK FENCE, 1 FT N. OF A MARKER POST, A BRASS DISK STAMPED M-62-59 IN THE TOP OF A CONCRETE POST.

CITY OF MORENO VALLEY APPROVALS			
APPROVED BY	DATE	BY	DATE
SUPERVISING SENIOR ENGINEER	7/6/06	NR	9/6/06
CITY TRAFFIC ENGINEER	8/21/06	AB	9/6/06
MAINTENANCE AND OPERATIONS MANAGER	8/16/06	DR	9/6/06
SENIOR ENGINEER	8/30/06	DR	9/6/06

BOYLE ENGINEERING CORPORATION
1131 W. Sixth Street Suite 350
Ontario, California 91762
Ph. (909) 933-5225
Fax. (909) 933-5228
WWW.BOYLEENGINEERING.COM

PREPARED UNDER SUPERVISION OF
ARIEF NAFTALI
RCE 64286
DATE 8/25/06
Exp. 6/30/07



TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL IMPROVEMENTS
DAY ST. AT COTTONWOOD AVE.

ACC. No. 125.66824
X-522
SHEET 5 OF 5
PROJECT No. 04-125.66824