RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE

PUBLIC WORKS DEPARTMENT

EASTRIDGE AVENUE MEDIAN IMPROVEMENTS

(LANCE DRIVE TO BOX SPRINGS BOULEVARD)

AND

SYCAMORE CANYON BOULEVARD MEDIAN IMPROVEMENTS

(FROM EASTRIDGE AVENUE TO COTTONWOOD AVENUE)

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER (S)

WATER LINE (W)

UNDERGROUND ELECTRIC (UGE)

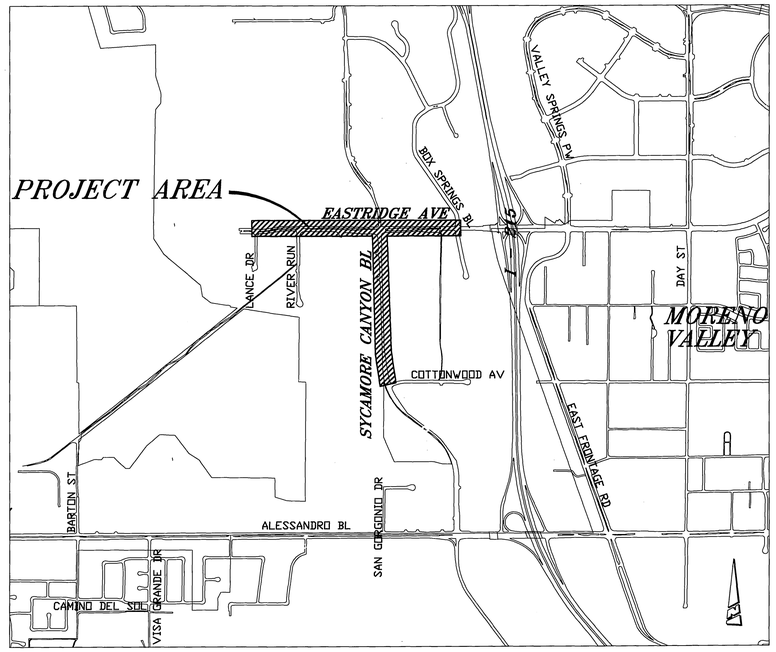
EXISTING TOPOGRAPHY:

- SANITARY SEWER M.H.
- STORM DRAIN M.H.
- WATER GATE VALE
- ELECTRIC M.H.
- TELEPHONE M.H.
- WATER METER
- FIRE HYDRANT
- IRRIGATION METER
- BLOW-OFF VALVE
- TRAFFIC SIGN
- POWER POLE
- GUY ANCHOR
- STREET LIGHT ON MAST ARM
- ELECTRICAL TEST STATION (PIPELINE)
- PCC PAVEMENT
- PALM TREE
- MISC. TREE
- BUILDING
- TOP OF SLOPE
- TOE OF SLOPE
- EDGE OF PAVEMENT
- DIRECTION DRAINAGE FLOW

LEGEND AND ABBREVIATIONS

- R&R PAVEMENT
- PCC PAVEMENT
- VARIABLE PAVEMENT GRIND
- EXISTING DIRT TO BE REMOVED
- STAMPED CONCRETE
- LANDSCAPE

AC	ASPHALT CONCRETE
AD	ALGEBRAIC DIFFERENCE
BC	BEGIN CURVE
BCR	BEGIN CURVE RETURN
BLD	BOULDER
BO	BLOW OFF
BVCE	BEGINING OF VERTICAL CURVE ELEVATION
BVCS	BEGINING OF VERTICAL CURVE STATION
CB	CATCHBASIN
CLF	CHAIN LINK FENCE
CONC	CONCRETE
CONST	CONSTRUCT/CONSTRUCTION
CRB	CURB
DIA	DIAMETER
DWY	DRIVEWAY
EC	END CURVE
ECR	END CURVE RETURN
ELEC	ELECTRICAL/ELECTRIC
ELEV	ELEVATION
E'LY	EASTERLY
EV	ELECTRIC VAULT
EVCE	END OF VERTICAL CURVE ELEVATION
EVCS	END OF VERTICAL CURVE STATION
GV	GATE VALVE
IP	IDENTICAL POINTS
IRR	IRRIGATION
LF	LINEAR FEET
LS	LANDSCAPE
MED	MEDIAN
MH	MANHOLE
MIN	MINIMUM
MOD	MODIFIED
N	NORTH
N'LY	NORTHERLY
OL	OVERLAY
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PL	PLASTIC PIPE/POST
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
RET	RETAINING
R&R	REMOVE AND REPLACE/RECONSTRUCT
RS	RISER
SGN	SIGN
SF	SQUARE FEET
S'LY	SOUTHERLY
SS	SLURRY SEAL
ST	STREET
STA	STATION
SW	SIDEWALK
TR	TREE
V	DEPTH OF CATCHBASIN
W	WIDTH OF CATCHBASIN
WCR	WHEEL CHAIR RAMP
WM	WATER METER
W'LY	WESTERLY



LOCATION MAP
NTS

SHEET INDEX: STREET IMPROVEMENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	NOTES, INDEX MAP & MISCELLANEOUS DETAILS
3	EASTRIDGE AVENUE, LANCE DRIVE TO STA 165+50
4	EASTRIDGE AVENUE, STA 165+50 TO STA 170+50
5	EASTRIDGE AVENUE, STA 170+50 TO STA 175+50
6	EASTRIDGE AVENUE, STA 175+50 TO STA 180+50
7	EASTRIDGE AVENUE, STA 180+50 TO STA 185+50
8	EASTRIDGE AVENUE, STA 185+50 TO STA BOX SPRINGS BLVD
9	EASTRIDGE AVENUE, PLANTING PLAN
10	SYCAMORE CANYON BOULEVARD, PLANTING PLAN
11	EASTRIDGE AVENUE, IRRIGATION PLAN
12	SYCAMORE CANYON BOULEVARD, IRRIGATION PLAN
13	IRRIGATION SYSTEM NOTES AND SCHEDULES

SHEET INDEX: TRAFFIC IMPROVEMENTS

SHEET NO.	DESCRIPTION
~~XL-617~~	~~TRAFFIC SIGNAL PLAN EASTRIDGE AVE AT SYCAMORE CYN BLVD~~
XL-617	SIGNING AND STRIPING PLAN; EASTRIDGE AVE FROM LANCE RD TO BOX SPRINGS BLVD

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TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
Edward Lara
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 21, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	PH	5/20/10
STREET SERVICES	[illegible]	5-3-10
SURVEYOR	[illegible]	5/11/10
TRAFFIC DIVISION	[illegible]	5/10/10
CONST. CONT. ADMIN.	[illegible]	5/20/10
LANDSCAPE DIVISION	[illegible]	5/20/10

APPROVED BY: [illegible]
CITY ENGINEER
DATE: 5/14/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS

TITLE SHEET

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 1 OF 13

FILE NO.

GENERAL NOTES:

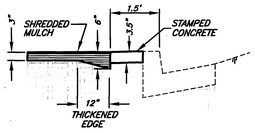
1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
2. CONTRACTOR SHALL GRADE BEHIND PROPOSED SIDEWALK TO ENSURE PROPER TRANSITION INTO THE LOT AND SHALL NOT IMPEDE EXISTING DRAINAGE PATTERNS.
3. ANY TEMPORARY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN ONE DAY AFTER NOTIFICATION FROM THE CITY INSPECTOR.
4. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
5. SURVEY STAKING REQUESTS AND GRADE SHEETS ARE REQUIRED FOR THE REPLACEMENT OF ALL CURBS AND/OR GUTTER OVER 50' IN LENGTH. SURVEY REQUESTS SHALL BE SUBMITTED AFTER THE EXISTING IMPROVEMENTS HAVE BEEN REMOVED. CONTRACTOR SHALL ALLOW 4 WORKING DAYS AFTER REQUESTING SURVEY TO SCHEDULE SURVEY AND PROCESS GRADE SHEETS. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FOR ALL REQUIRED CONSTRUCTION SURVEY WORK BY CITY PERSONNEL.
6. ALL REMOVED SIGNS AND POSTS SHALL BE SALVAGED AND DELIVERED TO THE RIVERSIDE SIGN DEPARTMENT.

GENERAL NOTES FOR PUBLIC LANDSCAPES:

1. ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT LANDSCAPE SPECIFICATIONS AND GUIDELINES.
2. BOTH A PUBLIC LANDSCAPE PERMIT AS ISSUED BY PUBLIC WORKS, AND A PUBLIC WORKS CONSTRUCTION PERMIT AS ISSUED BY PUBLIC WORKS, ARE REQUIRD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY FOR LANDSCAPE IMPROVEMENTS WITHIN A PUBLIC RIGHT OF WAY. THE PUBLIC LANDSCAPT PERMIT MAY BE OBTAINED BY CONTACTING THE PUBLIC WORKS DEPARTMENT, AT (951) 826-5341. THE PUBLIC WORKS CONSTRUCTION PERMIT MAY BE OBTAINED AT THE PUBLIC WORKS COUNTER, 4TH FLOOR. CITY HALL, 3900 MAIN STREET, RIVERSIDE, 92522.
3. WHEN CALLING FOR INSPECTIONS CONTACT THE PUBLIC WORKS LANDSCAPE INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION. A WRITTEN APPROVAL WILL BE PROVIDED ON THE PUBLIC LANDSCAPE PERMIT CARD FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTIONS ARE REQUIRED PER THE STANDARD SPECIFICATIONS, AND INCLUDE BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING:
   a. AFTER COMPLETION OF FINAL GRADING AND WHEN ALL UTILITY SERVICES HAVE BEEN MARKED, BUT PRIOR TO INITIATING ANY LANDSCAPE WORK WITHIN THE PUBLIC RIGHT OF WAY.
   b. AT TIME OF INSTALLATION OF IRRIGATION SLEEVES AND CONSANT PRESSURE MAINLINES, BUT PRIOR TO BACKFILL OF TRENCHES (NOTE: MAINLINES MUST BE PRESSURE TESTED IN THE PRESENCE OF PUBLIC WORKS LANDSCAPE INSPECTOR.
   c. AT TIME OF INSTALLATION OF IRRIGATION VALVES, LATERALS AND HEADS;
   d. FOR SPOTTING OF ALL TREES PRIOR TO DIGGING PLANTING PITS;
   e. WHILE DIGGING PLANT PITS AND PLANTING/RELOCATING TREES;
   f. AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE;
   g. AT SUBSTANTIAL COMPLETION OF THE PROJECT FOR CITY'S ACCEPTANCE TO START THE REQUIRED MAINTENANCE PERIOD;
   h. AT THE END OF MAINTENANCE PERIOD, THE CONTRACTOR SHALL CALL THE PUBLIC WORKS LANDSCAPE INSPECTOR AT THE NUMBER LISTED ABOVE FOR A FINAL ACCEPTANCE INSPECTION IN ORDER TO BE RELEASED FROM MAINTENANCE. CONTRACTOR'S BOND WILL NOT BE RELEASED UNTIL AFTER CITY'S ISSUANCE OF WRITTEN NOTIFICATION THAT THE PROJECT HAS PASSED FINAL INSPECTION AND THE PUBLIC WORKS DEPARTMENT IS ASSUMING MAINTENANCE RESPONSIBILITIES.
4. THE CONTRACTOR SHALL BE REPONSIBLE TO ACCEPTABLY MAINTAIN ALL PLANTINGS FOR A MINIMUM PERIOD AS SPECIFIED IN THE BID DOCUMENTS.
5. CONTRACTOR SHALL KEEP EXISTING IRRIGATION SYSTEMS OPERATIONAL AND SHALL BE RESPONSIBLE FOR REPLACING ANY DEAD PLANTS AND TREES AT THE CONTRACTOR'S EXPENSE.

PLANTING NOTES:

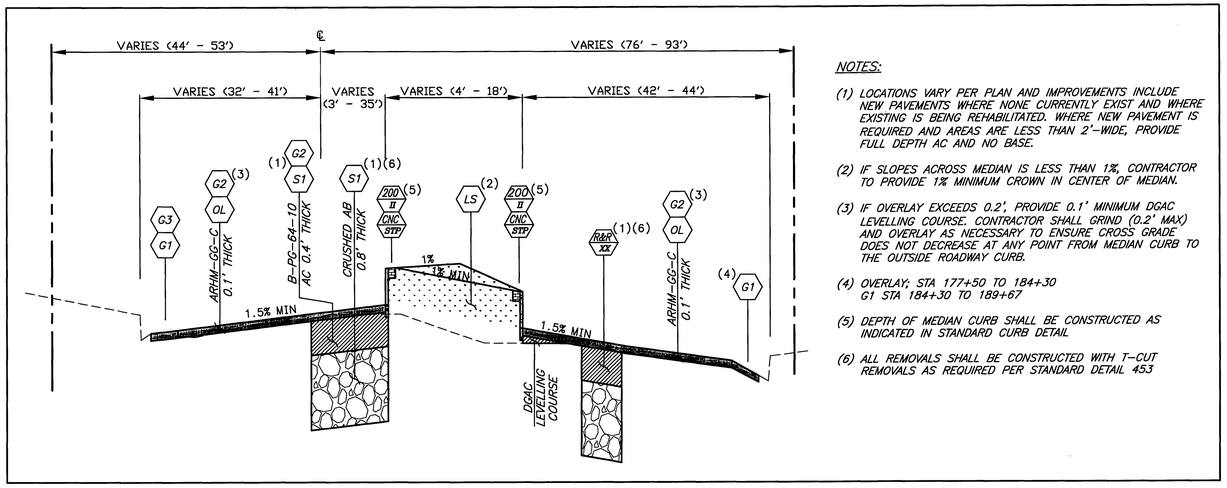
1. CONTRACTOR SHALL CALL THE ENGINEER'S ATTENTION TO SITE CONDITIONS WHICH PREVENT HIS INSTALLATION PER PLAN IN A REASONABLE MANNER.
2. REPLACEMENT OF DAMAGED OR DESTROYED PLANTINGS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY THE ENGINEER, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.
3. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIAL.
5. TREES SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE HAS BEEN APPROVED.
6. A SITE SHALL BE PRE-SELECTED BY THE ENGINEER FOR PLANT DELIVERY AND APPROVAL, FOR MIXING OF BACKFILL.
7. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE CITY'S REPRESENTATIVE.
8. MAINTENANCE PERIOD SHALL BE A MINIMUM OF ONE YEAR (365) CONSECUTIVE CALENDER DAYS FOR STREET TREES AND A MINIMUM OF NINETY (90) CONSECUTIVE CALENDER DAYS FOR SHRUBS AND SODS FROM DATE OF ACCEPTANCE. MAINTENANCE SHALL INCLUDE BI-WEEKLY WEED AND RODENT ABATEMENT PROCEDURES INCLUDING FOLIAR APPLICATION OF CHELATED IRON AND TRACE MINERALS 90 DAYS APART.
9. QUANTITIES ARE FOR BID PURPOSES ONLY. CONTRACTOR SHALL INSTALL AS SHOWN ON PLAN NOT EXCEEDING MINIMUM O.C. SPACING. CONTRACTOR SHALL INSTALL CONCRETE MOWCURB BETWEEN SHRUB AND GROUND COVER. ALL PLANTER AREA SHALL RECEIVE A 3" LAYER OF MEDIUM GRIND SHREDDED MULCH PER DETAIL (THIS SHEET).



NOTE: MULCH TO BE UNIFORMLY APPLIED THROUGHOUT THE SHRUB AREAS EXCEPT WITHIN TREE BASINS.

SHREDDED MULCH IN PLANT BED

NTS



NOTES:

(1) LOCATIONS VARY PER PLAN AND IMPROVEMENTS INCLUDE NEW PAVEMENTS WHERE NONE CURRENTLY EXIST AND WHERE EXISTING IS BEING REHABILITATED. WHERE NEW PAVEMENT IS REQUIRED AND AREAS ARE LESS THAN 2'-WIDE, PROVIDE FULL DEPTH AC AND NO BASE.

(2) IF SLOPES ACROSS MEDIAN IS LESS THAN 1%, CONTRACTOR TO PROVIDE 1% MINIMUM CROWN IN CENTER OF MEDIAN.

(3) IF OVERLAY EXCEEDS 0.2', PROVIDE 0.1' MINIMUM DGAC LEVELLING COURSE. CONTRACTOR SHALL GRIND (0.2' MAX) AND OVERLAY AS NECESSARY TO ENSURE CROSS GRADE DOES NOT DECREASE AT ANY POINT FROM MEDIAN CURB TO THE OUTSIDE ROADWAY CURB.

(4) OVERLAY; STA 177+50 TO 184+30
G1 STA 184+30 TO 189+67

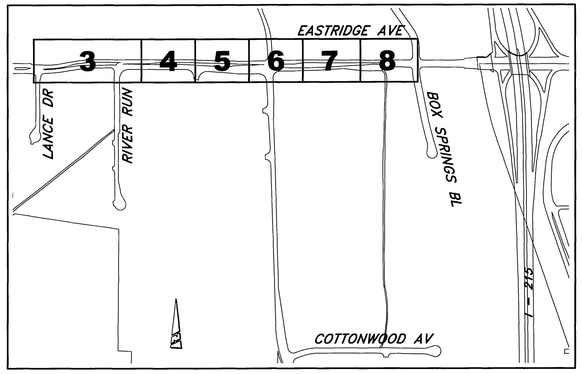
(5) DEPTH OF MEDIAN CURB SHALL BE CONSTRUCTED AS INDICATED IN STANDARD CURB DETAIL

(6) ALL REMOVALS SHALL BE CONSTRUCTED WITH T-CUT REMOVALS AS REQUIRED PER STANDARD DETAIL 453

EASTRIDGE AVE SECTION

R-VALUE=18
TI=9

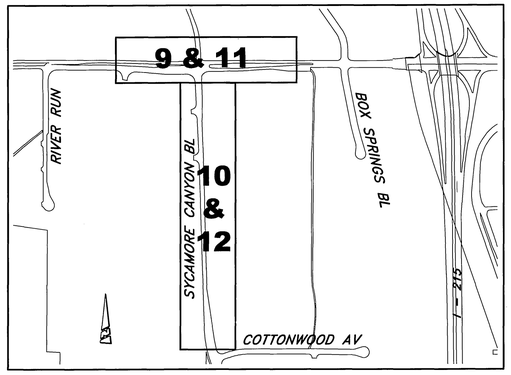
NTS



NOTE: SEE STRIPING AND SIGNING PLANS FOR LOCATION OF IMPROVEMENTS

STREET REHAB. INDEX MAP

NTS



NOTE: SEE STRIPING AND SIGNING PLANS FOR LOCATION OF IMPROVEMENTS

IRRIGATION & LANDSCAPE INDEX MAP

NTS

NOTES

1. ALL TREES WITHIN 5' OF HARDSCAPE SHALL BE IN A SHAWTOWN OR EQUAL ROOTBARRIER.
2. ALL PLANTER AREAS TO RECIEVE A ~~4"~~ 3" LAYER OF MEDIUM WALK ON BARK (1-1/2" - 3"). SEND SAMPLE FOR APPROVAL.
3. MULCH SAMPLE SHALL BE SENT TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.
4. UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS AT EDGE OF ROOT BALL WITH WATER FROM HOSE. DO NOT CRACK ROOT BALL
5. PLACE "GROW POWER" TABS IN PLANT CONTAINER PRIOR TO PLANTING FOR OBSERVATION PURPOSES.

CONSTRUCTION NOTES

- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- S1 — CONSTRUCT MIN. 0.1' THICK ARHM-GG-C OVER 0.6' THICK AC PAVEMENT (B-PG-64-10) OVER 1.0' THICK CRUSHED MISCELLANEOUS BASE OVER 90% COMPACTED NATIVE SUBGRADE. (CUT OR FILL NATIVE AS NECESSARY TO OBTAIN GRADES INDICATED).
- S2 — CONSTRUCT MIN. 0.1' THICK ARHM-GG-C OVER 0.8' THICK FULL DEPTH AC PAVEMENT B-PG-64-10 OVER 90% COMPACTED NATIVE SUBGRADE. (CUT OR FILL NATIVE AS NECESSARY TO TO OBTAIN GRADES INDICATED).
- OL — CONSTRUCT VARIABLE THICKNESS A.R.H.M.-GG AC OVERLAY. THICKNESS OF VARIABLE OVERLAY SHALL BE 0.1' MIN. AND 0.2' MAX. WHERE VARIABLE OVERLAY EXCEEDS 0.2', A 0.1' MIN D.G.A.C. LEVELING COURSE SHALL BE PROVIDED.
- ADJ XX — ADJUST TO GRADE EXISTING FACILITY (XX=TYPE PER PLAN). THE FOLLOWING IS THE FACILITY LEGEND: - MH=MANHOLE; GV=GATE VALVE; WM=WATER METER; EV=ELECTRIC VAULT; IRR=IRRIGATION FACILITIES; PB=PULL BOX; RS=RISER; CB=CATCH BASIN; PL=PLASTIC POST.
- PIP XX — PROTECT IN PLACE EXISTING FACILITY (XX=TYPE PER PLAN). THE FOLLOWING IS THE FACILITY LEGEND: - MH=MANHOLE; GV=GATE VALVE; WM=WATER METER; EV=ELECTRIC VAULT; BO=BLOW OFF; PB=PULL BOX; PL=PLASTIC POST; CRB=CURB; STL=STREET LIGHT, LIP=CONCRETE GUTTER LIP.
- REM XX — REMOVE EXISTING FACILITY (XX=TYPE PER PLAN). THE FOLLOWING IS THE FACILITY LEGEND: - MED=MEDIAN; BLD=BOULDER; TR=TREE; SGN=SIGN. (REMOVED SIGNS SHALL BE SALVAGED AND RETURNED TO THE CITY OF RIVERSIDE CORPORATION YARD.
- G1 — 5' WIDE AND 0.1' MINIMUM DEPTH GRIND WITH 0.1' VARIABLE DEPTH OVERLAY.
- G2 — VARIABLE WIDTH AND 0.1' MINIMUM DEPTH (0.2' MAX.) WITH 0.1' VARIABLE DEPTH ARHM OVERLAY.
- CNC STP — CONSTRUCT 3.5" THICK COLORED STAMPED CONCRETE: 1'-WIDE BAND AT THE PERIMETER MEDIAN CURB ADJACENT TO LANDSCAPE AREAS AND AT MEDIAN NOSES AS GENERALLY SHOWN.
- LS — CONSTRUCT LANDSCAPE AND IRRIGATION PER LANDSCAPE PLAN. SEE SHEETS 9 THRU 13.
- R&R XX — REMOVE AND REPLACE EXISTING FACILITY (XX=TYPE PER PLAN). THE FOLLOWING IS THE FACILITY LEGEND: S1=STRUCTURAL SECTION-1; S2=STRUCTURAL SECTION-2; TMS=TRAFFIC MARKERS AND STRIPING (SEE TRAFFIC PLANS FOR PROPOSED STRIPING AND MARKINGS)

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CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 11, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: FL

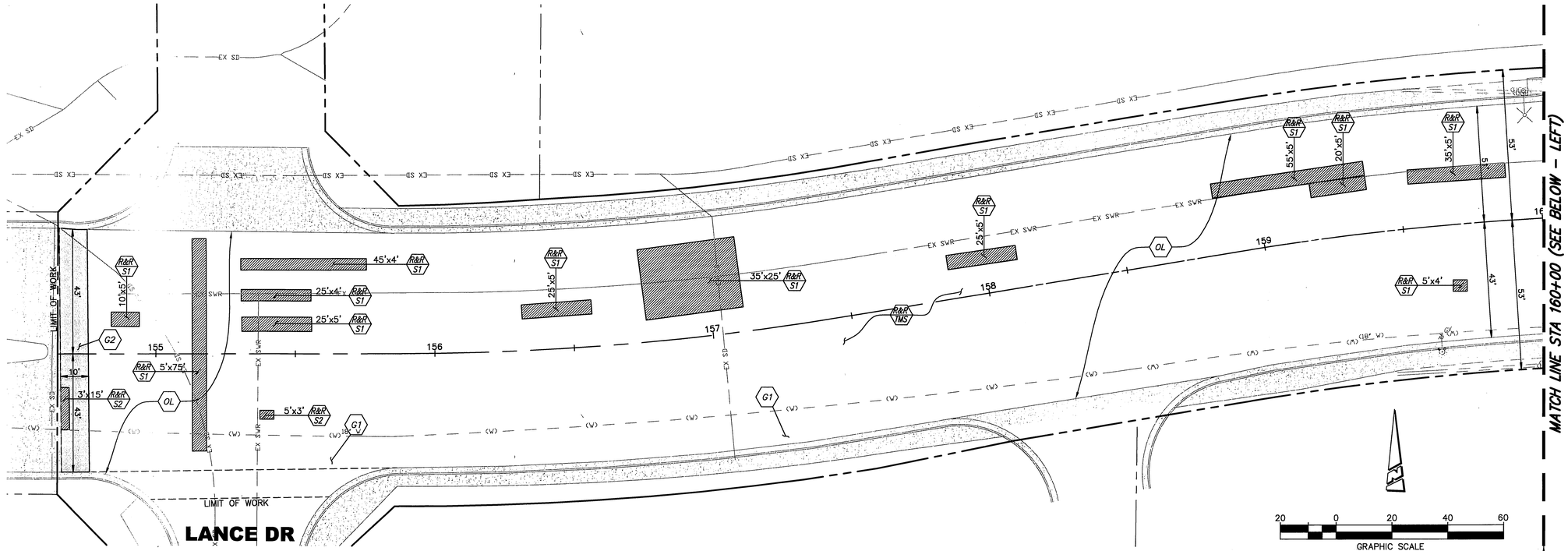
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

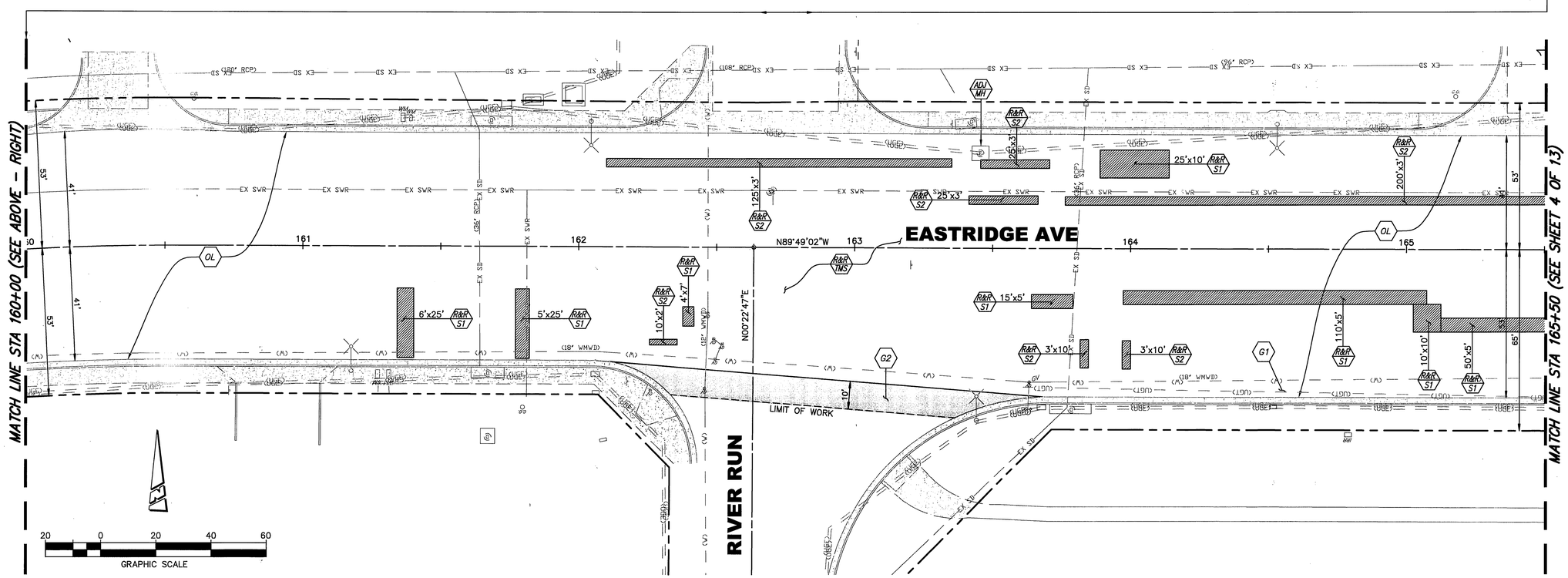
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/6/10
STREET SERVICES		5/4/10
SURVEYOR		5/4/10
TRAFFIC DIVISION		5/5/10
CONST. CONT. ADMIN.		5/10/10
LANDSCAPE DIVISION		6/1/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
NOTES, INDEX MAP & MISCELLANEOUS DETAILS

W.O. DESIGN: 0602221
W.O. CONST: 0916464
R-4124
SHEET 2 OF 13
FILE NO.





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Edward Lara
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 21, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUF DRAWN BY: JUF CHECKED BY: FL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/27/10
STREET SERVICES		6-2-10
SURVEYOR		6/11/10
TRAFFIC DIVISION		5/25/10
CONST. CONT. ADMIN.		5/28/10
LANDSCAPE DIVISION		6/2/10

APPROVED BY: CITY ENGINEER
DATE: 6/8/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
EASTRIDGE AVENUE
LANCE DRIVE TO STA 165+50

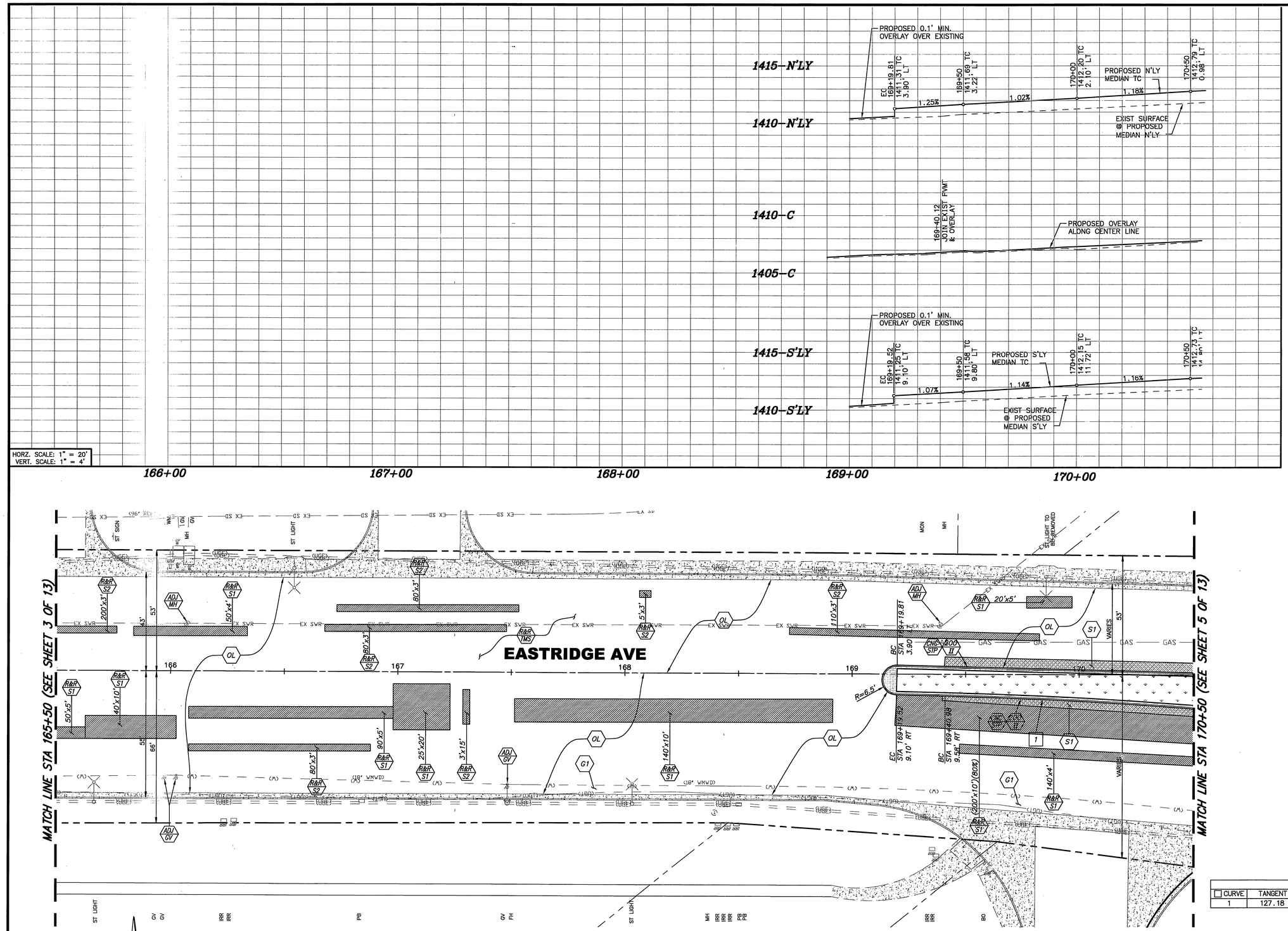
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R–4124

SHEET 3 OF 13

FILE NO.



CONSTRUCTION NOTES

- (HEXAGON) NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- (S1) CONSTRUCT MIN. 0.1' THICK ARHM-GG-C OVER 0.6' THICK AC PAVEMENT (B-PG-64-10) OVER 1.0' THICK CRUSHED MISCELLANEOUS BASE OVER 90% COMPACTED NATIVE SUBGRADE. (CUT OR FILL NATIVE AS NECESSARY TO OBTAIN GRADES INDICATED).
- (S2) CONSTRUCT MIN. 0.1' THICK ARHM-GG-C OVER 0.8' THICK FULL DEPTH AC PAVEMENT B-PG-64-10 OVER 90% COMPACTED NATIVE SUBGRADE. (CUT OR FILL NATIVE AS NECESSARY TO TO OBTAIN GRADES INDICATED).
- (OL) CONSTRUCT VARIABLE THICKNESS A.R.H.M.-GG AC OVERLAY. THICKNESS OF VARIABLE OVERLAY SHALL BE 0.1' MIN. AND 0.2' MAX. WHERE VARIABLE OVERLAY EXCEEDS 0.2', A 0.1' MIN D.G.A.C. LEVELING COURSE SHALL BE PROVIDED.
- (ADJ XX) ADJUST TO GRADE EXISTING FACILITY (XX=TYPE PER PLAN). THE FOLLOWING IS THE FACILITY LEGEND: – MH=MANHOLE; GV=GATE VALVE; WM=WATER METER; EV=ELECTRIC VAULT; IRR=IRRIGATION FACILITIES; PB=PULL BOX; RS=RISER; CB=CATCH BASIN; PL=PLASTIC POST.
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- (LS) CONSTRUCT LANDSCAPE AND IRRIGATION PER LANDSCAPE PLAN. SEE SHEETS 9 THRU 13.
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CURVE TABLE

CURVE	TANGENT	LENGTH	RADIUS	DELTA	DESCRIPTION
1	127.18	254.07	2150.00	06°46'15"	S'LY MEDIAN CURB

20 0 20 40 60
GRAPHIC SCALE

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1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
Edward Lara
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 21, 2010

REGISTERED PROFESSIONAL ENGINEER
EDWARD LARA
No. 63753
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: FL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/8/10
STREET SERVICES		6/8/10
SURVEYOR		6/7/10
TRAFFIC DIVISION		6/3/10
CONST. CONT. ADMIN.		6/8/10
LANDSCAPE DIVISION		6/8/10

APPROVED BY: CITY ENGINEER
DATE: 6/8/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
EASTRIDGE AVENUE
STA 165+50 TO STA 170+50

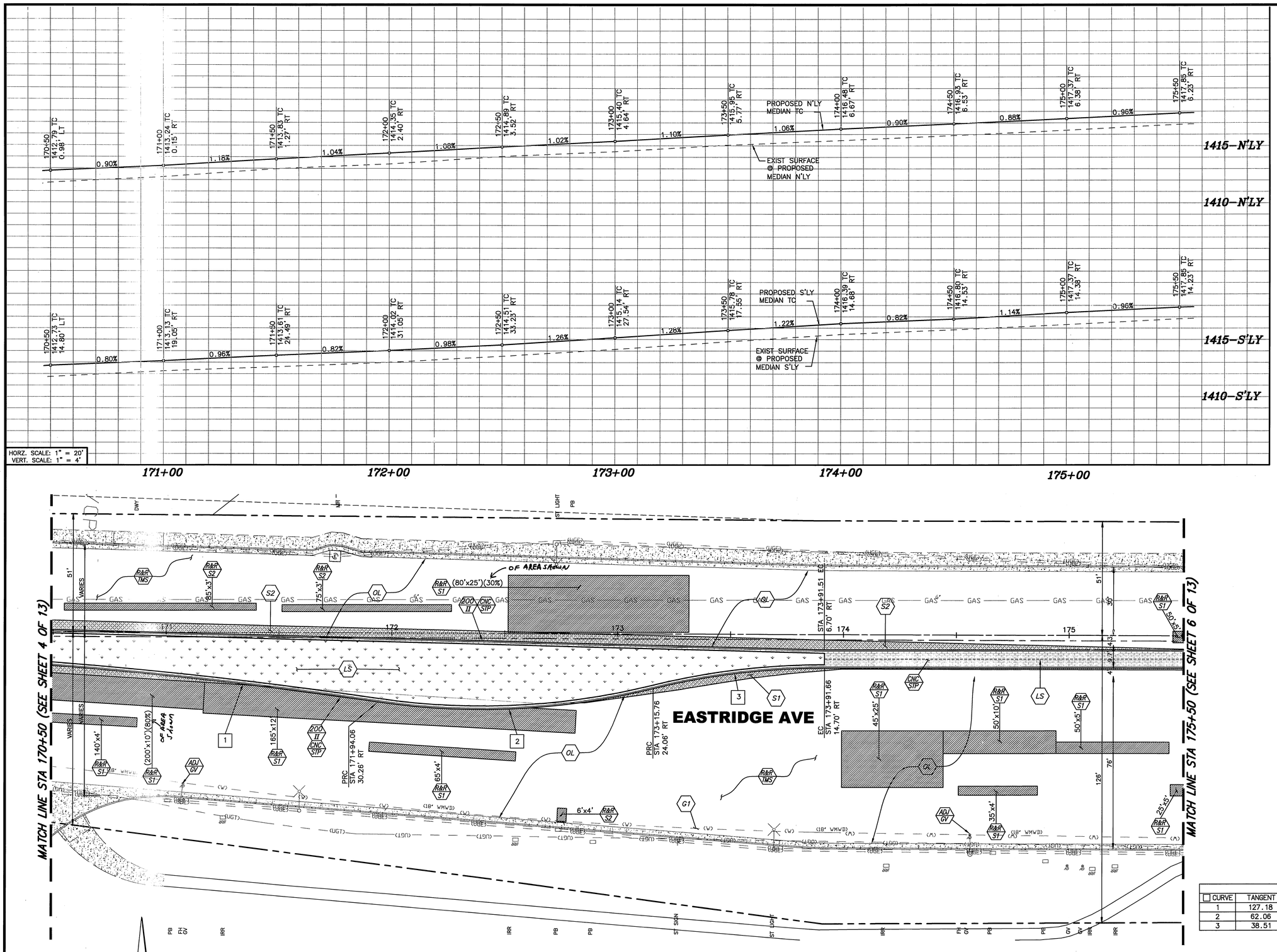
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 4 OF 13

FILE NO.



CONSTRUCTION NOTES

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CURVE TABLE

CURVE	TANGENT	LENGTH	RADIUS	DELTA	DESCRIPTION
1	127.18	254.07	2150.00	06°46'15"	S'LY MEDIAN CURB
2	62.06	122.61	320.00	21°57'09"	S'LY MEDIAN CURB
3	38.51	76.65	320.00	13°43'29"	S'LY MEDIAN CURB

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CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 11, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/27/10
STREET SERVICES		6/2/10
SURVEYOR		6/1/10
TRAFFIC DIVISION		5/31/10
CONST. CONT. ADMIN.		5/28/10
LANDSCAPE DIVISION		6/2/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
EASTRIDGE AVENUE
STA 170+50 TO STA 175+50

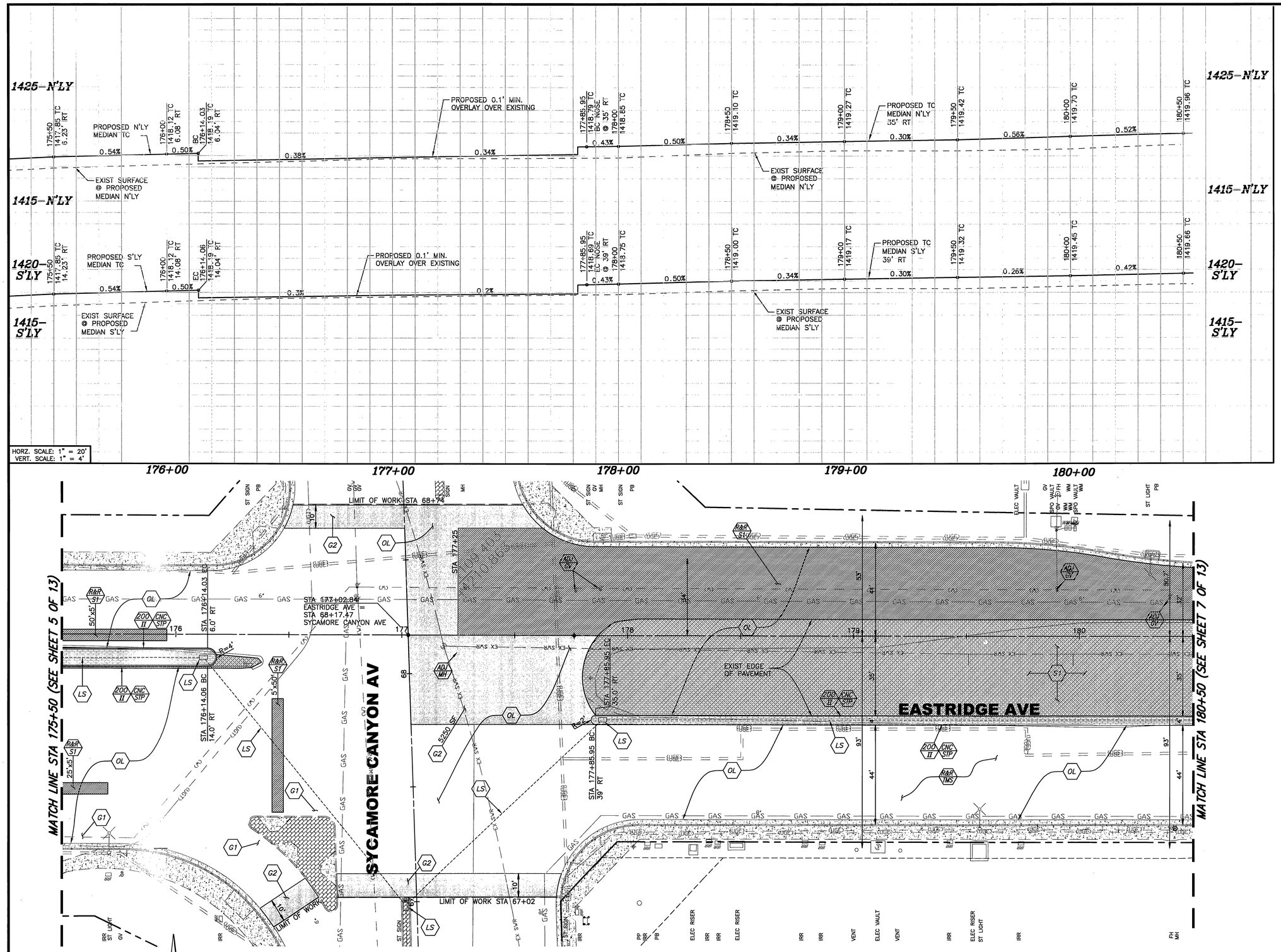
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R–4124

SHEET 5 OF 13

FILE NO.



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CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
Edward Lara
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 21, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUF DRAWN BY: JUF CHECKED BY: EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	AH	5/27/10
STREET SERVICES	DB	6/4/10
SURVEYOR	DB	6/11/10
TRAFFIC DIVISION	JL	5/28/10
CONST. CONT. ADMIN.	RG	5/28/10
LANDSCAPE DIVISION	DB	6/2/10

APPROVED BY: Vince Bagat
CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS

EASTRIDGE AVENUE
STA 175+50 TO STA 180+50

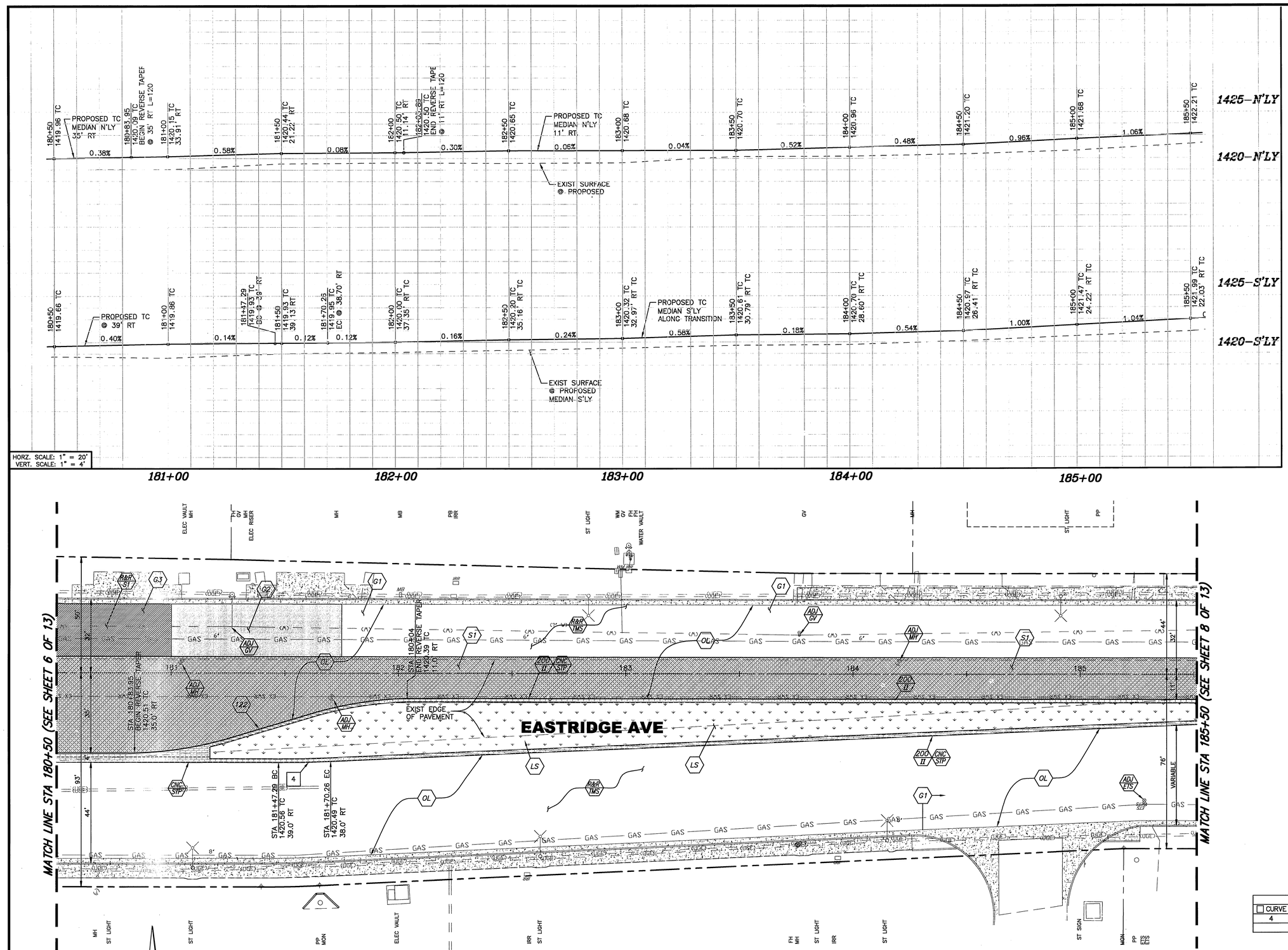
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 4'

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R–4124

SHEET 6 OF 13

FILE NO.



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EDWARD LARA
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DATE May 21, 2010

REGISTERED PROFESSIONAL ENGINEER — EDWARD LARA — No. 63753 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DA	5/26/10
STREET SERVICES	[illegible]	6-1-10
SURVEYOR	[illegible]	6/1/10
TRAFFIC DIVISION	[illegible]	5/26/10
CONST. CONT. ADMIN.	[illegible]	5/25/10
LANDSCAPE DIVISION	[illegible]	6/2/10

APPROVED BY: [illegible] CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
EASTRIDGE AVENUE
STA 180+50 TO STA 185+50

HORIZ. SCALE: 1" = 20'
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W.O. DESIGN: 0602221
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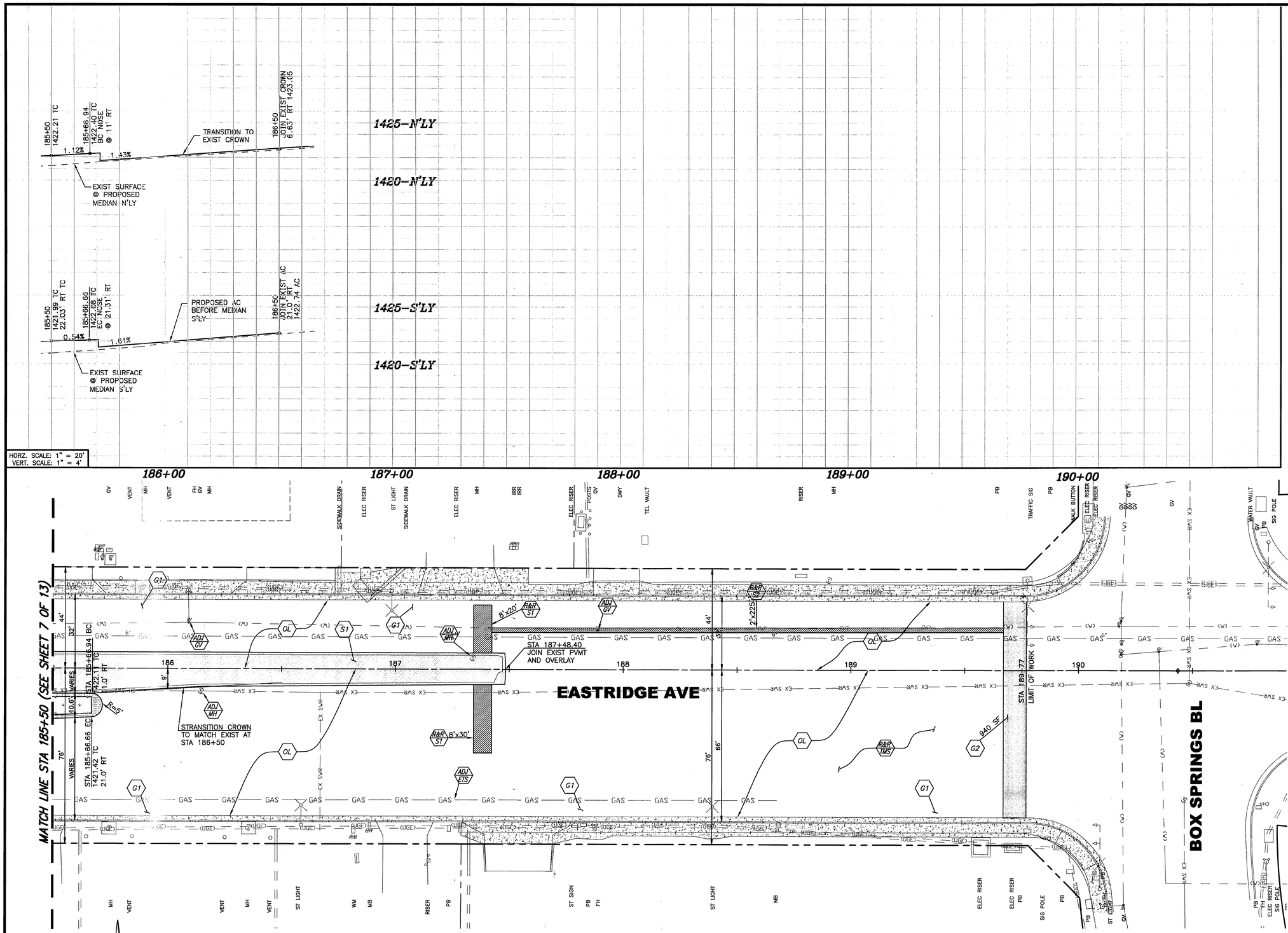
R-4124

SHEET 7 OF 13

FILE NO.



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STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: FL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/21/10
STREET SERVICES		6/2/10
SURVEYOR		6/1/10
TRAFFIC DIVISION		5/27/10
CONST. CONT. ADMIN.		5/28/10
LANDSCAPE DIVISION		6/2/10

APPROVED BY: CITY ENGINEER
DATE: 8/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
EASTRIDGE AVENUE
STA 185+50 TO BOX SPRINGS BLVD

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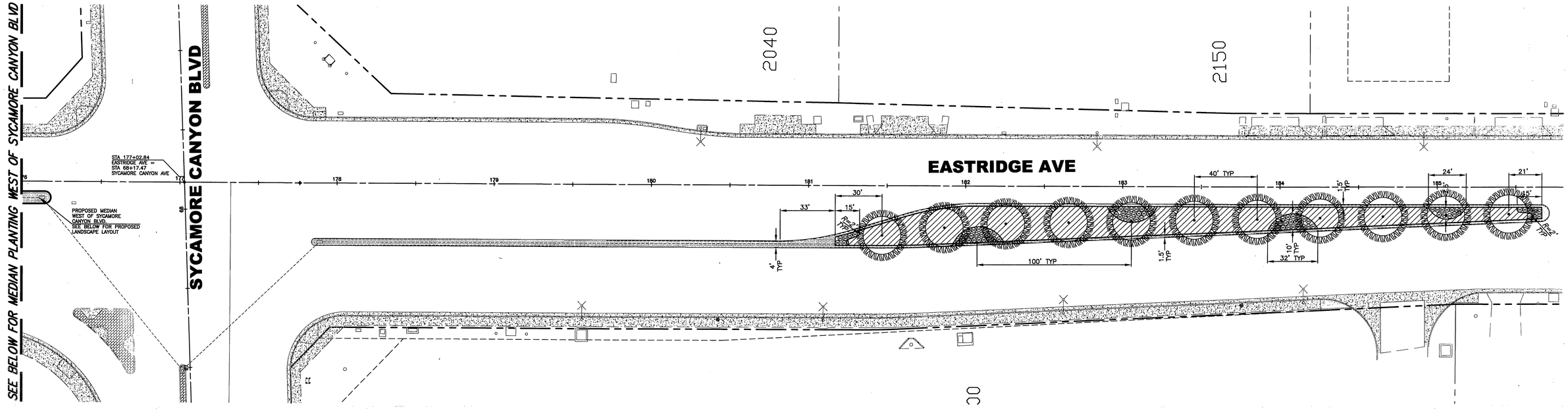
W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 8 OF 13

FILE NO.



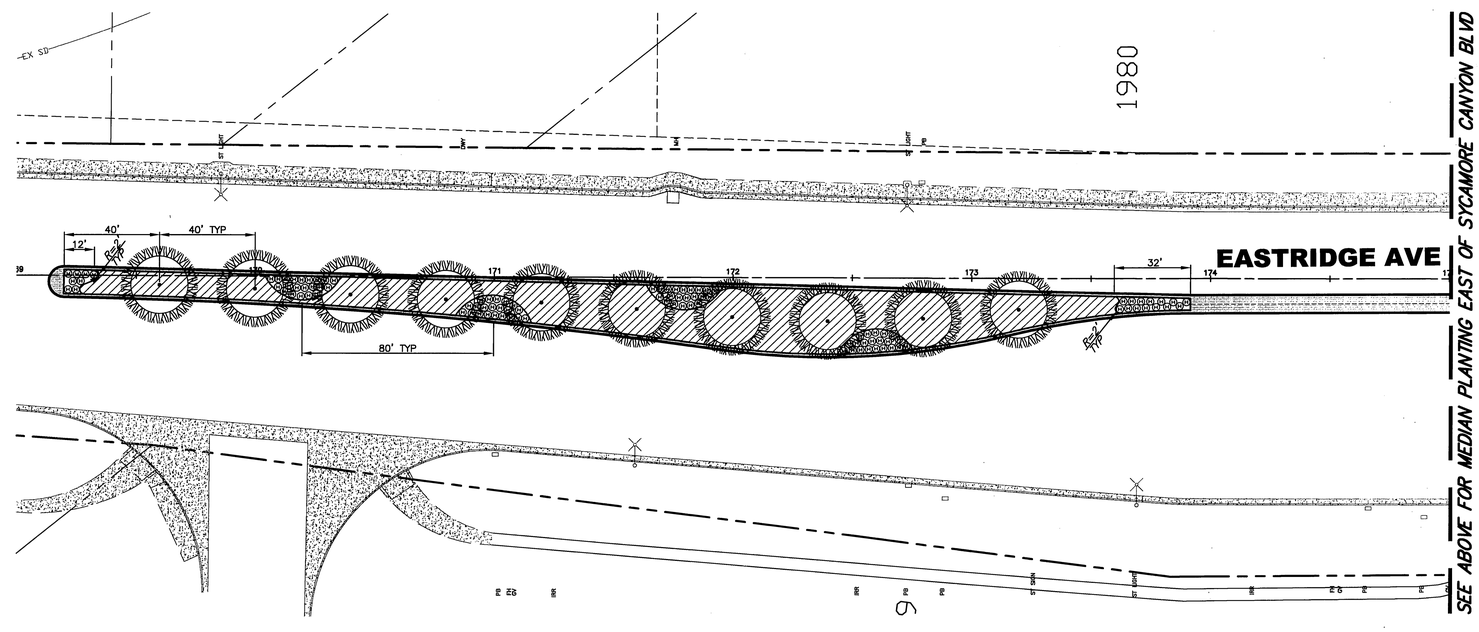
PLANTING LEGEND

TREES				
SYM.	BOTENICAL/COMMON NAME	SIZE	QTY.	REMARKS/DETAIL
	Platanus acerifolia London Plane Tree	24" BOX	11	Standard All trees within 5' of concrete shall be installed with linear root barrier
SHRUBS				
H	Hemerocallis hybridus – Yellow Yellow Day Lily	1 Gal	24" O.C. 90	WUCOLS: M Evergreen variety
GROUNDCOVER			SPACING	
	Trachelospermum Star Jasmine	1 Gal	18" O.C.	WUCOLS: M
CONSTRUCTION LEGEND				
	NEW STAMPED CONCRETE PER CONSTRUCTION DRAWINGS			

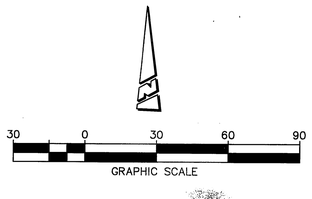
QUNTITIES ARE FOR BID PURPOSES ONLY. CONTRACTOR SHALL INSTALL AS SHOWN ON THE PLAN NOT EXCEEDING MINIMUM O.C. SPACING.

CONTRACTOR SHALL INSTALL CONCRETE MOWCURB BETWEEN SHRUB AND GROUND COVER.

ALL PLANTER AREAS SHALL RECIEVE A 3" LAYER OF MEDIAN GRIND SHREDDED MULCH PER DETAIL ON SHEET 2 OF 10.



SEE SHEETS 2 & 13 FOR LANDSCAPE AND IRRIGATION NOTES



Underground Service Alert
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1–800
227–2600
TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 11, 2010

REGISTERED PROFESSIONAL ENGINEER
EDWARD LARA
No. 63753
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: F.L.

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/3/10
STREET SERVICES		6/3/10
SURVEYOR		6/1/10
TRAFFIC DIVISION		6/3/10
CONST. CONT. ADMIN.		6/3/10
LANDSCAPE DIVISION		6/3/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS

EASTRIDGE AVENUE PLANTING PLAN

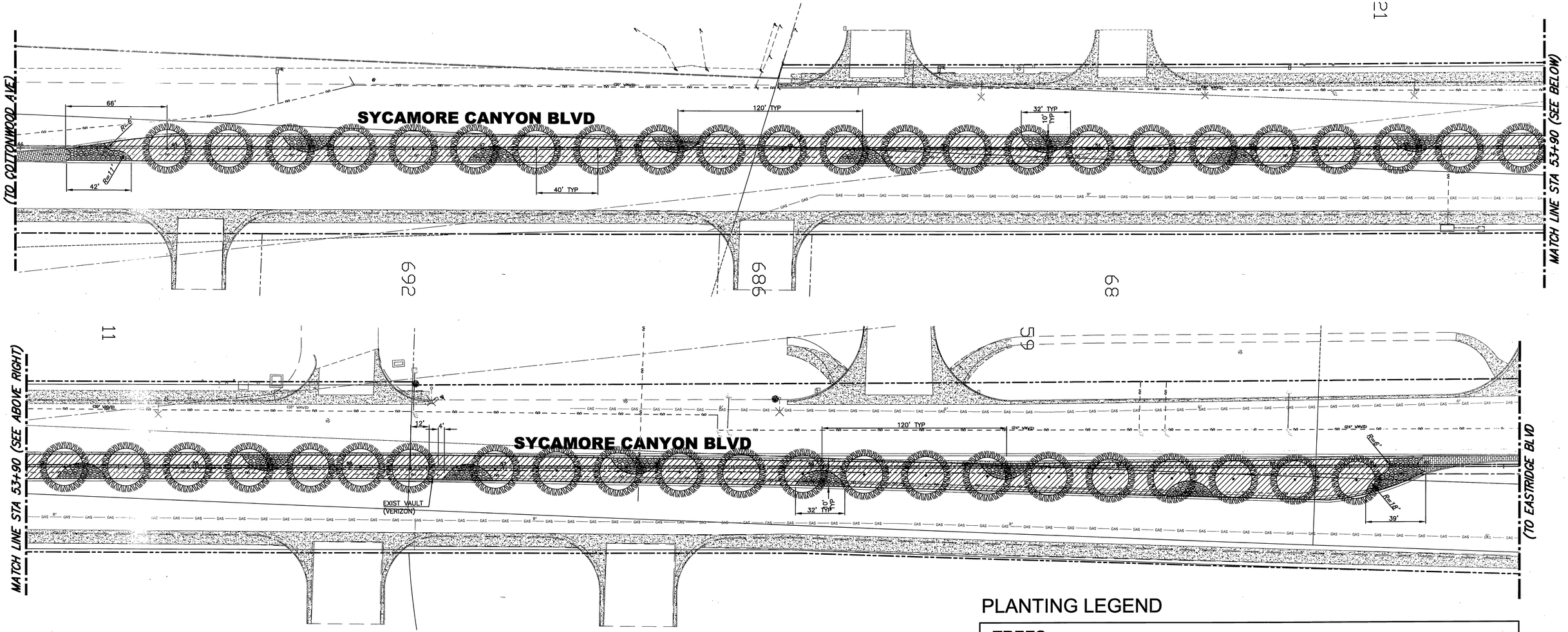
SCALE: 1" = 30"

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 9 OF 13

FILE NO.



QUNTITIES ARE FOR BID PURPOSES ONLY. CONTRACTOR SHALL INSTALL AS SHOWN ON THE PLAN NOT EXCEEDING MINIMUM O.C. SPACING.

CONTRACTOR SHALL INSTALL CONCRETE MOWCURB BETWEEN SHRUB AND GROUND COVER.

ALL PLANTER AREAS SHALL RECIEVE A 3" LAYER OF MEDIUM GRIND SHREDDED MULCH PER DETAIL ON SHEET 2 OF 10.

PLANTING LEGEND

TREES				
SYM.	BOTENICAL/COMMON NAME	SIZE	QTY.	REMARKS/DETAIL
	Platanus acerifolia London Plane Tree	~~36"~~ BOX 24"	45	Standard All trees within 5' of concrete shall be installed with linear root barrier
SHRUBS				
(H)	Hemerocallis hybridus – Yellow Yellow Day Lily	1 Gal	24" O.C. 364	WUCOLS: M Evergreen variety
GROUNDCOVER			SPACING	
	Trachelospermum Star Jasmine	1 Gal	18" O.C.	WUCOLS: M
CONSTRUCTION LEGEND				
	EXISTING STAMPED CONCRETE.			

SEE SHEETS 2 & 13 FOR LANDSCAPE AND IRRIGATION NOTES

30 0 30 60 90
GRAPHIC SCALE

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227–2600
TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE

ENGINEER IN RESPONSIBLE CHARGE
EDWARD LARA
R.C.E. No. 63753 expires 9/30/10
DATE May 11, 2010

REGISTERED PROFESSIONAL ENGINEER EDWARD LARA No. 63753 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: JUE DRAWN BY: JUE CHECKED BY: EL

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	JUE	5/7/10
STREET SERVICES	[illegible]	6/1/10
SURVEYOR	[illegible]	6/1/10
TRAFFIC DIVISION	[illegible]	5/31/10
CONST. CONT. ADMIN.	[illegible]	6/1/10
LANDSCAPE DIVISION	[illegible]	6/1/10

APPROVED BY: [illegible] CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS

SYCAMORE CANYON BOULEVARD PLANTING PLAN

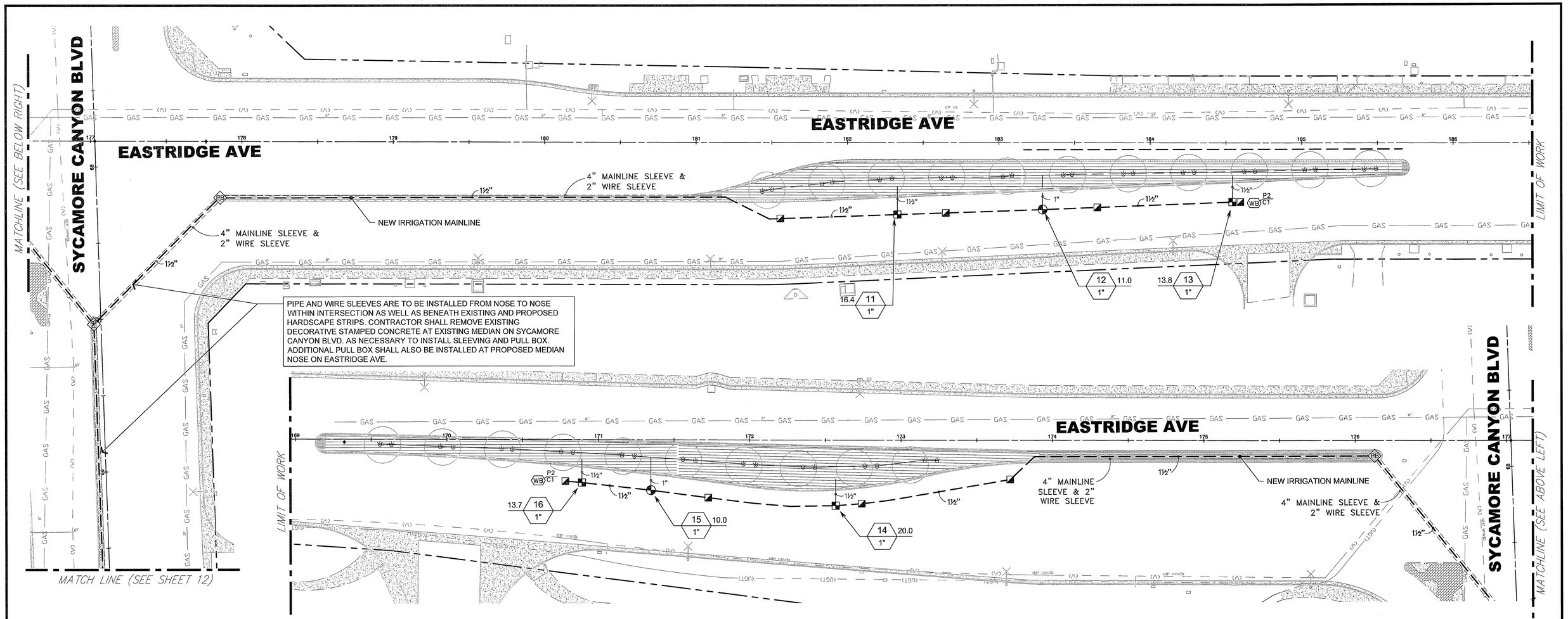
SCALE: 1" = 30'

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 10 OF 13

FILE NO.



NOTE: WATER SERVICE CONNECTION, BACKFLOW, FLOW SENSOR, MASTER VALVE, IRRIGATION CONTROLLER, IRRIGATION MAINLINE,COMMON & CONTROL WIRES, PVC SUBOUTS FOR QUICK COUPLERS AND ISOLATION VALVES IN SYCAMORE CANYON BLVD ARE EXISTING. NEW PIPE, WIRES, AND EQUIPMENT WILL BE INSTALLED FOR EASTRIDGE AVE MEDIAN.

FOR IRRIGATION SYSTEM CALCULATIONS AND CONTROLLER PROGRAM SCHEDULE SEE SHEET 13 OF 13.

REFER TO CITY OF RIVERSIDE PUBLIC WORKS
LANDSCAPE SPECIFICATIONS AND GUIDELINES
FOR INSTALLATION DETAILS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
1401 1402 1404 1408	RAIN BIRD RWS-B-C-SOCK ROOT WATERING SYSTEM WITH 4" DIAMETER X 36" LONG WITH LOCKING GRATE, CHECK VALVE, SEMI-RIGID MESH TUBE WITH SAND SOCK AND RAIN BIRD 1401 0.25GPM, 1402 0.50GPM, 1404 1.0GPM, AND 1408 2.0 GPM BUBBLER OPTIONS AS INDICATED.	40

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	TORO DZK-TPV-1-MF DRIP ZONE KIT. 1" TPV VALVE, FILTER, MEDIUM-FLOW REGULATOR.
	AREA TO RECEIVE DRIPLINE TORO RGP-218 (18) LANDSCAPE DRIPLINE WITH ROOTGUARD PROTECTION AND 0.53GPH EMITTERS AT 18" O.C. DRIPLINE LATERAL ROWS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	TORO 220-27-06 WITH RWSG-KIT BRASS ELECTRIC REMOTE CONTROL VALVE PRESSURE-REGULATED, WITH 60 HZ SOLENOID
	TORO 100-2SLLVC 1", TWO-PIECE, SINGLE LUG, QUICK COUPLER WITH ~~PURPLE~~ VINYL COVER.
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS PIPE DIAMETER, SIZE RANGE - 1/4" - 3" EXISTING ARE SHOWN SCREENED.

IRRIGATION SCHEDULE

M	IRRITROL 102 P1.5 1-1/2" EXISTING: NORMALLY OPEN DESIGN, SOLID BRASS CONSTRUCTION, ELECTRIC.
	WILKENS EXISTING: #500 HR (SPRING RANGE 75-125 PSI) SET @ 85 PSI
BF	FEBCO 825YA 1-1/2" EXISTING: REDUCED PRESSURE BACKFLOW PREVENTER
CC	CALSENSE CENTRAL CONTROL EXISTING: ET 2000E-24-LR-RRE WITH LR-DOME-RRE ANTENNA
F	CALSENSE FM-1B EXISTING: 1" FLOW METER BRONZE, MIN. FLOW 3GPM, MAX. FLOW 50GPM.
WB PX CX	WIRE BUNDLE (AS INDICATED FOR FUTURE USE) SPARE CONTROL WIRE BUNDLE FOR FUTURE USE IN JUNCTION BOX. P=PILOT WIRES, C=COMMON WIRES BUNDLED. COIL WIRES IN VALVE BOX, AND RUN CONTINUOUS WIRE BACK TO CONTROLLER. LABEL EACH WIRE WITH A PLASTIC I.D. TAG AT THE WIRE BUNDLE AND AT THE CONTROLLER.
PB	BROOKS PULL BOX #36 CONTROL WIRE CONCRETE PULL BOX WITH BOLT DOWN CAST IRON COVER.
M	WATER METER 2" EXISTING
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHER LATERAL PIPE IS 3/4" IN SIZE.

IRRIGATION SCHEDULE

	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.
	IRRIGATION MAINLINE: PVC SCHEDULE 40 EXISTING MAINLINE IN SYCAMORE CANYON BLVD MEDIAN IS SHOWN SCREENED.
	PIPE SLEEVE: PVC SCHEDULE 40 WIRE SLEEVE (NOT SHOWN) SHALL BE GRAY SCH 40 PVC . TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE CITY STD 2003. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF HARDSCAPE.

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

PVC STUBOUT
EXISTING 1-1/2" STUBOUT AND WIRE IN 10" ROUND VALVE BOX.

NOTE: WATER SERVICE CONNECTION, BACKFLOW, FLOW SENSOR, MASTER VALVE, IRRIGATION CONTROLLER, IRRIGATION MAINLINE,COMMON & CONTROL WIRES, PVC SUBOUTS FOR QUICK COUPLERS AND ISOLATION VALVES IN SYCAMORE CANYON BLVD ARE EXISTING. NEW PIPE, WIRES, AND EQUIPMENT WILL BE INSTALLED FOR EASTRIDGE AVE MEDIAN.

Underground Service Alert
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227-2600
TWO WORKING DAYS BEFORE YOU DIG

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.

ENGINEER IN RESPONSIBLE CHARGE
DOUG GROVE
R.C.L.A. No. 2799 expires 11/30/11
DATE 5/24/10

LICENSED LANDSCAPE ARCHITECT — DOUGLAS GROVE No. 2799 — Signature 11/30/11 Renewal Date — 5/24/10 Date — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: MH DRAWN BY: AF CHECKED BY: DG

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DH	5/27/10
STREET SERVICES	[illegible]	6/3/10
SURVEYOR	[illegible]	6/1/10
TRAFFIC DIVISION	[illegible]	5/13/10
CONST. CONT. ADMIN.	[illegible]	5/28/10
LANDSCAPE DIVISION	[illegible]	6/2/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS

EASTRIDGE AVE
IRRIGATION PLAN

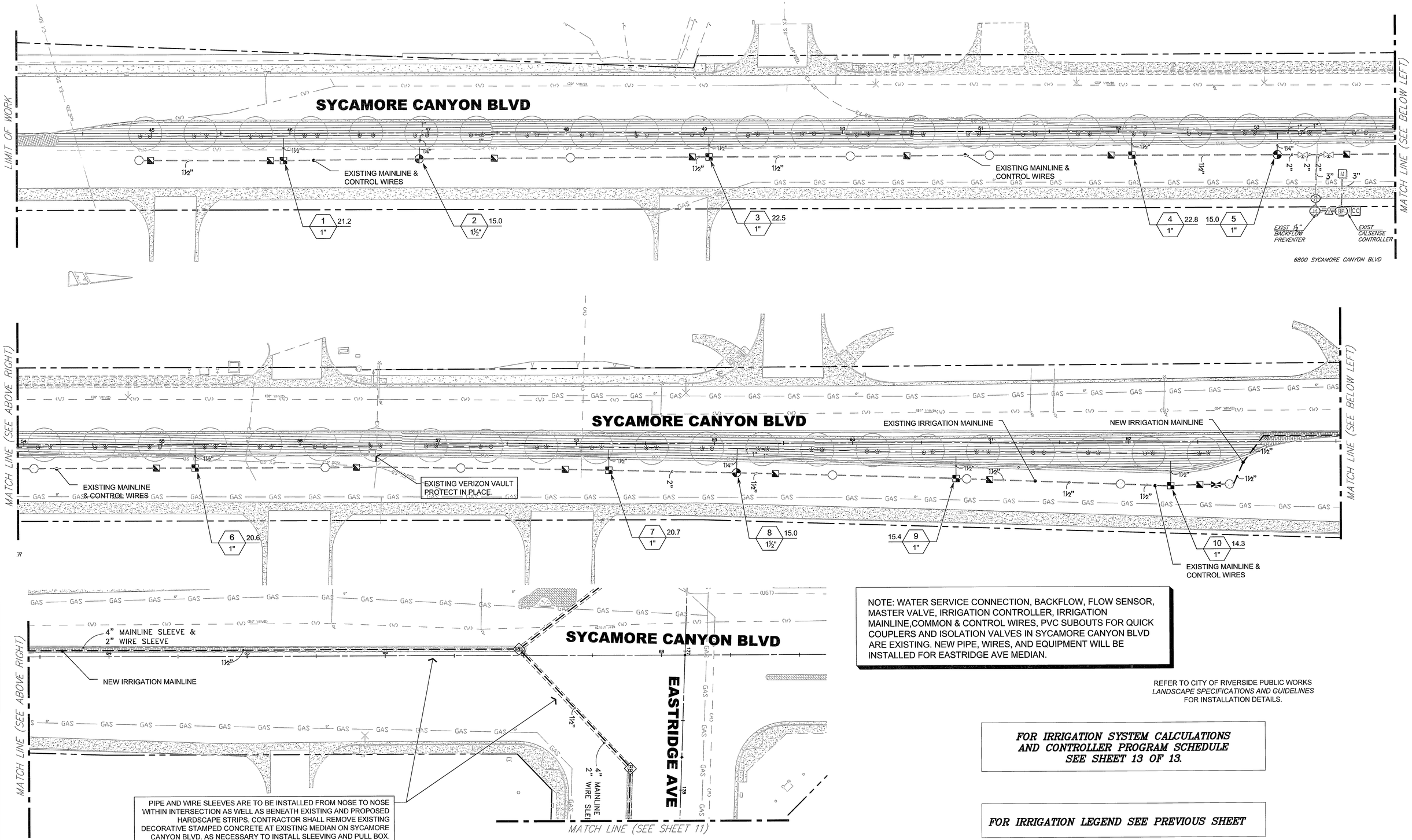
SCALE: 1" = 30"

W.O. DESIGN: 0602221
W.O. CONST: 0916464

R-4124

SHEET 11 OF 13

FILE NO.



NOTE: WATER SERVICE CONNECTION, BACKFLOW, FLOW SENSOR, MASTER VALVE, IRRIGATION CONTROLLER, IRRIGATION MAINLINE,COMMON & CONTROL WIRES, PVC SUBOUTS FOR QUICK COUPLERS AND ISOLATION VALVES IN SYCAMORE CANYON BLVD ARE EXISTING. NEW PIPE, WIRES, AND EQUIPMENT WILL BE INSTALLED FOR EASTRIDGE AVE MEDIAN.

REFER TO CITY OF RIVERSIDE PUBLIC WORKS *LANDSCAPE SPECIFICATIONS AND GUIDELINES* FOR INSTALLATION DETAILS.

FOR IRRIGATION SYSTEM CALCULATIONS AND CONTROLLER PROGRAM SCHEDULE SEE SHEET 13 OF 13.

FOR IRRIGATION LEGEND SEE PREVIOUS SHEET

PIPE AND WIRE SLEEVES ARE TO BE INSTALLED FROM NOSE TO NOSE WITHIN INTERSECTION AS WELL AS BENEATH EXISTING AND PROPOSED HARDSCAPE STRIPS. CONTRACTOR SHALL REMOVE EXISTING DECORATIVE STAMPED CONCRETE AT EXISTING MEDIAN ON SYCAMORE CANYON BLVD. AS NECESSARY TO INSTALL SLEEVING AND PULL BOX. ADDITIONAL PULL BOX SHALL ALSO BE INSTALLED AT PROPOSED MEDIAN NOSE ON EASTRIDGE AVE.

Underground Service Alert
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1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.

ENGINEER IN RESPONSIBLE CHARGE
DOUG GROVE
R.C.E. No. 27939 expires 11/30/11
DATE 5/24/10

LICENSED LANDSCAPE ARCHITECT DOUGLAS GROVE No. 27939 STATE OF CALIFORNIA
Signature 11/30/11 Expires Date
5/24/10 Date

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: MH DRAWN BY: AF CHECKED BY: DG

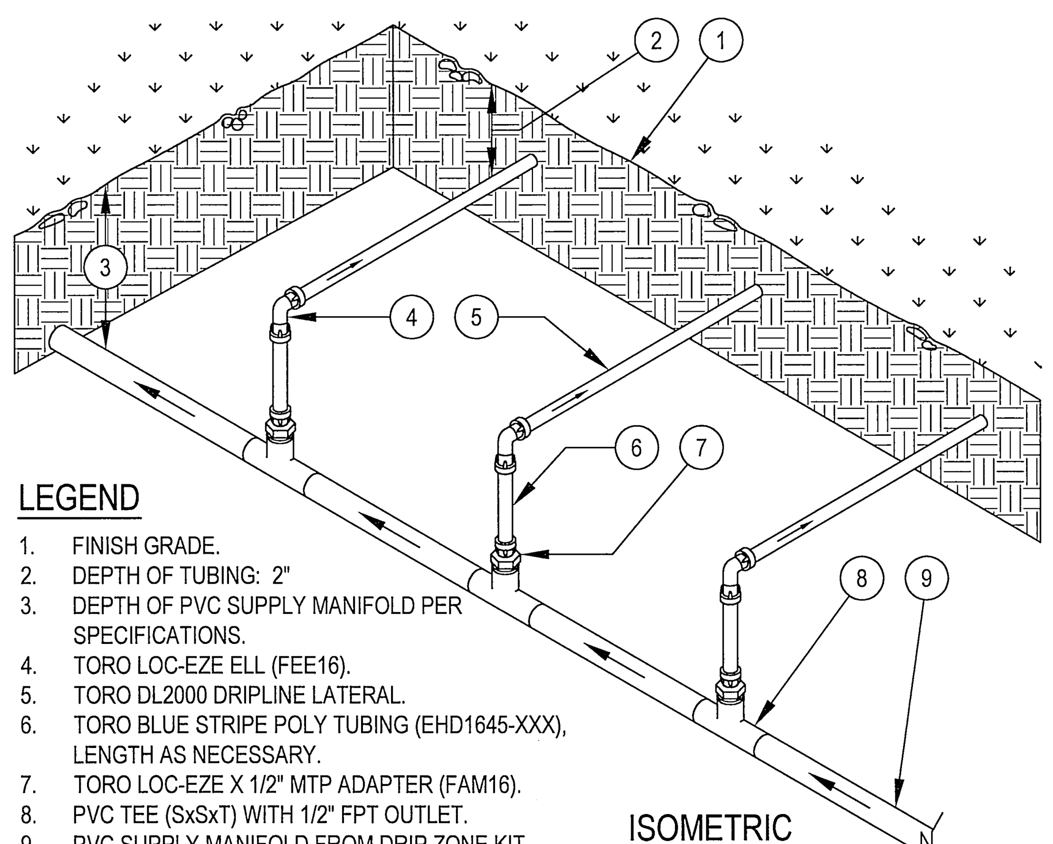
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	MH	5/24/10
STREET SERVICES	SM	6/1/10
SURVEYOR	SY	6/1/10
TRAFFIC DIVISION	[illegible]	5/25/10
CONST. CONT. ADMIN.	RB	5/20/10
LANDSCAPE DIVISION	GS	6/2/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
SYCAMORE CANYON BLVD IRRIGATION PLAN
SCALE: 1" = 30"

W.O. DESIGN: 0602221
W.O. CONST: 0916464
R-4124
SHEET 12 OF 13
FILE NO.



LEGEND

1. FINISH GRADE.
2. DEPTH OF TUBING: 2"
3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
4. TORO LOC-EZE ELL (FEE16).
5. TORO DL2000 DRIPLINE LATERAL.
6. TORO BLUE STRIPE POLY TUBING (EHD1645-XXX), LENGTH AS NECESSARY.
7. TORO LOC-EZE X 1/2" MTP ADAPTER (FAM16).
8. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
9. PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT.
10. INSTALL PVC BALL FLUSH VALVE AT END OF MANIFOLD RUNS IN 8" ROUND VALVE BOX.

2 TORO MANIFOLD-END FEED

1" = 1" 328413.56–13

INITIAL SCHEDULING

Program: 1	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cycles Per Day:	2	3	3	2	3	3	3	3	3	3	2	3
Days To Skip:	7	7	7	3	3	3	3	3	3	7	7	15
Station1												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station3												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station4												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station6												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station7												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station9												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station10												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station11												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station13												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station14												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33
Station16												
Minutes Per Cycle:	27	28	35	28	26	32	34	33	27	36	35	33

Program: 2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cycles Per Day:	1	1	1	1	2	2	2	2	2	1	1	1
Days To Irrigate:	3	3	3	3	3	4	4	4	4	4	3	3
Station2												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5
Station5												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5
Station8												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5
Station12												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5
Station15												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5

TOTAL MAXIMUM RUN TIME PER STATION IN MINUTES (per Irrigation Day)

	J	F	M	A	M	J	J	A	S	O	N	D
Program:1												
Station1:	55	84	104	55	79	95	103	99	82	107	70	99
Station3:	55	84	104	55	79	95	103	99	82	107	70	99
Station4:	55	84	104	55	79	95	103	99	82	107	70	99
Station6:	55	84	104	55	79	95	103	99	82	107	70	99
Station7:	55	84	104	55	79	95	103	99	82	107	70	99
Station9:	55	84	104	55	79	95	103	99	82	107	70	99
Station10:	55	84	104	55	79	95	103	99	82	107	70	99
Station11:	55	84	104	55	79	95	103	99	82	107	70	99
Station13:	55	84	104	55	79	95	103	99	82	107	70	99
Station14:	55	84	104	55	79	95	103	99	82	107	70	99
Station16:	55	84	104	55	79	95	103	99	82	107	70	99
	605	924	1144	605	869	1045	1133	1089	902	1177	770	1089
Program:2												
Station2:	5	8	10	10	15	14	15	14	12	8	6	5
Station5:	5	8	10	10	15	14	15	14	12	8	6	5
Station8:	5	8	10	10	15	14	15	14	12	8	6	5
Station12:	5	8	10	10	15	14	15	14	12	8	6	5
Station15:	5	8	10	10	15	14	15	14	12	8	6	5
	25	40	50	50	75	70	75	70	60	40	30	25
System Run Time:	630	964	1194	655	944	1115	1208	1159	962	1217	800	1114

TOTAL SYSTEM RUN TIME PER MONTH

January:	35 hr(s)	13 min(s)
February:	48 hr(s)	37 min(s)
March:	67 hr(s)	4 min(s)
April:	68 hr(s)	44 min(s)
May:	102 hr(s)	16 min(s)
June:	114 hr(s)	14 min(s)
July:	127 hr(s)	6 min(s)
August:	122 hr(s)	16 min(s)
September:	98 hr(s)	8 min(s)
October:	65 hr(s)	58 min(s)
November:	43 hr(s)	35 min(s)
December:	31hr(s)	51 min(s)

NOTE: THIS IRRIGATION SCHEDULE IS MEANT TO BE USED AS A GUIDELINE ONLY, AND DOES NOT TAKE THE PLACE OF PROPER, ONGOING SYSTEM MANAGEMENT. DIFFERING SITE AND CLIMATIC CONDITIONS MAY REQUIRE ADJUSTMENTS NOT REFLECTED IN THIS SCHEDULE

ESTABLISHED SCHEDULING

Program: 1	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cycles Per Day:	1	1	1	1	1	1	1	1	1	1	1	1
Days To Skip:	15	7	7	7	3	3	3	3	3	7	7	15
Station1												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station3												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station4												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station6												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station7												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station9												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station10												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station11												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station13												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station14												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82
Station16												
Minutes Per Cycle:	91	70	87	92	66	80	86	82	68	89	58	82

Program: 2	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Cycles Per Day:	1	1	1	1	1	1	1	1	1	1	1	1
Days To Irrigate:	3	3	3	3	3	4	4	4	4	4	3	3
Station2												
Minutes Per Cycle:	5	8	10	10	15	14	15	14	12	8	6	5
Station5												
Minutes Per Cycle:	5	8	10	10	15	14	15	14	12	8	6	5
Station8												
Minutes Per Cycle:	5	8	10	10	15	14	15	14	12	8	6	5
Station12												
Minutes Per Cycle:	5	8	10	10	15	14	15	14	12	8	6	5
Station15												
Minutes Per Cycle:	5	8	10	10	7	7	7	7	6	8	6	5

TOTAL MAXIMUM RUN TIME PER STATION IN MINUTES (per Irrigation Day)

	J	F	M	A	M	J	J	A	S	O	N	D
Program:1												
Station1:	91	70	87	92	66	80	86	82	68	89	58	82
Station3:	91	70	87	92	66	80	86	82	68	89	58	82
Station4:	91	70	87	92	66	80	86	82	68	89	58	82
Station6:	91	70	87	92	66	80	86	82	68	89	58	82
Station7:	91	70	87	92	66	80	86	82	68	89	58	82
Station9:	91	70	87	92	66	80	86	82	68	89	58	82
Station10:	91	70	87	92	66	80	86	82	68	89	58	82
Station11:	91	70	87	92	66	80	86	82	68	89	58	82
Station13:	91	70	87	92	66	80	86	82	68	89	58	82
Station14:	91	70	87	92	66	80	86	82	68	89	58	82
Station16:	91	70	87	92	66	80	86	82	68	89	58	82
	1001	770	957	1012	726	880	946	902	748	979	638	902
Program:2												
Station2:	5	8	10	10	15	14	15	14	12	8	6	5
Station5:	5	8	10	10	15	14	15	14	12	8	6	5
Station8:	5	8	10	10	15	14	15	14	12	8	6	5
Station12:	5	8	10	10	15	14	15	14	12	8	6	5
Station15:	5	8	10	10	15	14	15	14	12	8	6	5
	25	40	50	50	75	70	75	70	60	40	30	25
System Run Time:	1026	810	1007	1062	801	950	1021	972	808	1016	668	927

TOTAL SYSTEM RUN TIME PER MONTH

January:	29 hr(s)	55 min(s)
February:	41 hr(s)	19 min(s)
March:	56 hr(s)	59 min(s)
April:	58 hr(s)	24 min(s)
May:	86 hr(s)	54 min(s)
June:	96 hr(s)	20 min(s)
July:	107 hr(s)	11 min(s)
August:	103 hr(s)	7 min(s)
September:	82 hr(s)	46 min(s)
October:	55 hr(s)	38 min(s)
November:	37 hr(s)	2 min(s)
December:	27 hr(s)	4 min(s)

NOTE: THIS IRRIGATION SCHEDULE IS MEANT TO BE USED AS A GUIDELINE ONLY, AND DOES NOT TAKE THE PLACE OF PROPER, ONGOING SYSTEM MANAGEMENT. DIFFERING SITE AND CLIMATIC CONDITIONS MAY REQUIRE ADJUSTMENTS NOT REFLECTED IN THIS SCHEDULE

CRITICAL ANALYSIS

P.O.C. NUMBER:01		P.O.C. NUMBER:01		P.O.C. NUMBER:01	
Water Source Information:	EXISTING	Water Source Information:	EXISTING	Water Source Information:	EXISTING
FLOW AVAILABLE		FLOW AVAILABLE		FLOW AVAILABLE	
Water Meter Size:	2"	Water Meter Size:	2"	Water Meter Size:	2"
Flow Available:	120.00 gpm	Flow Available:	120.00 gpm	Flow Available:	120.00 gpm
PRESSURE AVAILABLE		PRESSURE AVAILABLE		PRESSURE AVAILABLE	
Static Pressure at POC:	125.00 psi	Static Pressure at POC:	125.00 psi	Static Pressure at POC:	125.00 psi
Service Line Size:	2"	Service Line Size:	2"	Service Line Size:	2"
Length of Service Line:	20.00 ft	Length of Service Line:	20.00 ft	Length of Service Line:	20.00 ft
Pressure Available:	125.00 psi	Pressure Available:	125.00 psi	Pressure Available:	125.00 psi
DESIGN ANALYSIS		DESIGN ANALYSIS		DESIGN ANALYSIS	
Critical Station Flow:	22.8 gpm	Critical Station Flow:	14.00 gpm	Critical Station Flow:	11.00 gpm
Flow Available at POC:	120.00 gpm	Flow Available at POC:	120.00 gpm	Flow Available at POC:	120.00 gpm
Residual Flow Available:	97.25 gpm	Residual Flow Available:	106.00 gpm	Residual Flow Available:	109.00 gpm
Largest Critical Station:	4	Farthest Critical Station:	13	Smallest Critical Station:	12
Pressure Req. at Critical Station:	58.47 psi	Pressure Req. at Critical Station:	47.03 psi	Pressure Req. at Critical Station:	44.32 psi
Loss for Fittings:	1.00 psi	Loss for Fittings:	1.00 psi	Loss for Fittings:	1.00 psi
Loss for Main Line:	10.05 psi	Loss for Main Line:	12.02 psi	Loss for Main Line:	6.69 psi
Loss for Backflow:	11.51 psi	Loss for Backflow:	11.51 psi	Loss for Backflow:	11.51 psi
Loss for Master Valve:	0.52 psi	Loss for Master Valve:	0.52 psi	Loss for Master Valve:	0.48 psi
Loss for Water Meter:	0.45 psi	Loss for Water Meter:	0.45 psi	Loss for Water Meter:	0.39 psi
Critical Station Pressure at POC:	81.48 psi	Critical Station Pressure at POC:	72.53 psi	Critical Station Pressure at POC:	64.39 psi
Pressure Available after Regulator:	85.00 psi	Pressure Available after Regulator:	85.00 psi	Pressure Available after Regulator:	85.00 psi
Residual Pressure Available:	3.52 psi	Residual Pressure Available:	12.47psi	Residual Pressure Available:	20.61 psi

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	TORO DZK-TPV-1-MF	1"	DRIP	38.91		21.24	0.42 in/h
2	TORO 220-27-06 WITH RWSG-KIT	1-1/2"	BUBBLER	48.95	71.83	15.00	15.32 in/h
3	TORO DZK-TPV-1-MF	1"	DRIP	38.91		22.51	0.42 in/h
4	TORO DZK-TPV-1-MF	1"	DRIP	38.89		22.75	0.42 in/h
5	TORO 220-27-06 WITH RWSG-KIT	1"	BUBBLER	49.56	62.76	15.00	15.32 in/h
6	TORO DZK-TPV-1-MF	1"	DRIP	38.88		20.62	0.42 in/h
7	TORO DZK-TPV-1-MF	1"	DRIP	38.88		20.69	0.42 in/h
8	TORO 220-27-06 WITH RWSG-KIT	1-1/2"	BUBBLER	48.45	69.14	15.00	15.32 in/h
9	TORO DZK-TPV-1-MF	1"	DRIP	38.82		15.37	0.42 in/h
10	TORO DZK-TPV-1-MF	1"	DRIP	38.81		14.35	0.42 in/h
11	TORO DZK-TPV-1-MF	1"	DRIP	38.85		16.43	0.42 in/h
12	TORO 220-27-06 WITH RWSG-KIT	1"	BUBBLER	44.32	72.83	11.00	15.32 in/h
13	TORO DZK-TPV-1-MF	1"	DRIP	38.80		13.81	0.42 in/h
14	TORO DZK-TPV-1-MF	1"	DRIP	38.90		19.97	0.42 in/h
15	TORO 220-27-06 WITH RWSG-KIT	1"	BUBBLER	42.98		10.00	15.32 in/h
16	TORO DZK-TPV-1-MF	1"	DRIP	38.79		13.73	0.42 in/h

REFER TO CITY OF RIVERSIDE PUBLIC WORKS *LANDSCAPE SPECIFICATIONS AND GUIDELINES* FOR INSTALLATION DETAILS.

Underground Service Alert
CALL BEFORE YOU DIG
CALL:TOLL FREE
1–800
227–2600
TWO WORKING DAYS BEFORE YOU DIG

RHA LANDSCAPE ARCHITECTS PLANNERS, INC.

ENGINEER IN RESPONSIBLE CHARGE
DOUG GROVE
R.C.L.A. No. 2799 expires 11/30/11
DATE 5/24/10

LICENSED LANDSCAPE ARCHITECT DOUGLAS GROVE NO. 2799 Signature 11/30/11 Renewal Date 5/24/10 Date STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: MH DRAWN BY: AF CHECKED BY: DG

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DH	5/27/10
STREET SERVICES	JCB	6.3.10
SURVEYOR		6/11/10
TRAFFIC DIVISION		5/27/10
CONST. CONT. ADMIN.	AD	5/28/10
LANDSCAPE DIVISION	JS	6/2/10

APPROVED BY: CITY ENGINEER
DATE: 6/4/10

EASTRIDGE AVE MEDIAN & SYCAMORE CANYON BLVD MEDIAN IMPROVEMENTS
IRRIGATION SYSTEM NOTES AND SCHEDULES
SCALE: NTS

W.O. DESIGN: 0602221
W.O. CONST: 0916464
R–4124
SHEET 13 OF 13
FILE NO.