

GENERAL NOTES:

- 1). CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2009 EDITION.
- 2). EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM PUBLIC RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- 3). PRIME CONTRACTOR BIDDING THIS WORK SHALL HAVE A CLASS "A" OR A "C-42" LICENSE.
- 4). CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS/ENCROACHMENTS FROM THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) AND COUNTY OF RIVERSIDE, TRANSPORTATION DEPARTMENT FOR PERMISSION TO WORK WITHIN THE STATE AND COUNTY RIGHT OF WAY.
- 5). IF SEWER WORK IS REQUIRED TO BE PERFORMED OUTSIDE OF THE PUBLIC RIGHT OF WAY THEN THE CONTRACTOR IS REQUIRED TO WORK WITHIN THE DEDICATED SEWER EASEMENT.
- 6). FOR ALL BASE COATING WORK, CONTRACTOR IS REQUIRED TO REMOVE 1 FOOT OF MANHOLE SHAFT LINER ABOVE THE MANHOLE BASE. ONCE REMOVED THE CONTRACTOR SHALL COAT THE BASE AND 1 FOOT ABOVE THE BASE WITH SANCON 100 OR CITY APPROVED EQUAL.
- 7). MANHOLE #8, #10-13 AND #29 TO BE RAISED TO GRADE. THE SEWER UTILITY SHALL HAVE 15 CALENDAR DAYS TO RAISE MANHOLE TO GRADE.

RIVERSIDE

CALIFORNIA

PUBLIC WORKS DEPARTMENT

CENTRAL AVE, SYCAMORE CANYON

BLVD SEWER MANHOLE REPAIR PHASE II

CENTRAL AVE BETWEEN CANYON CREST DR AND

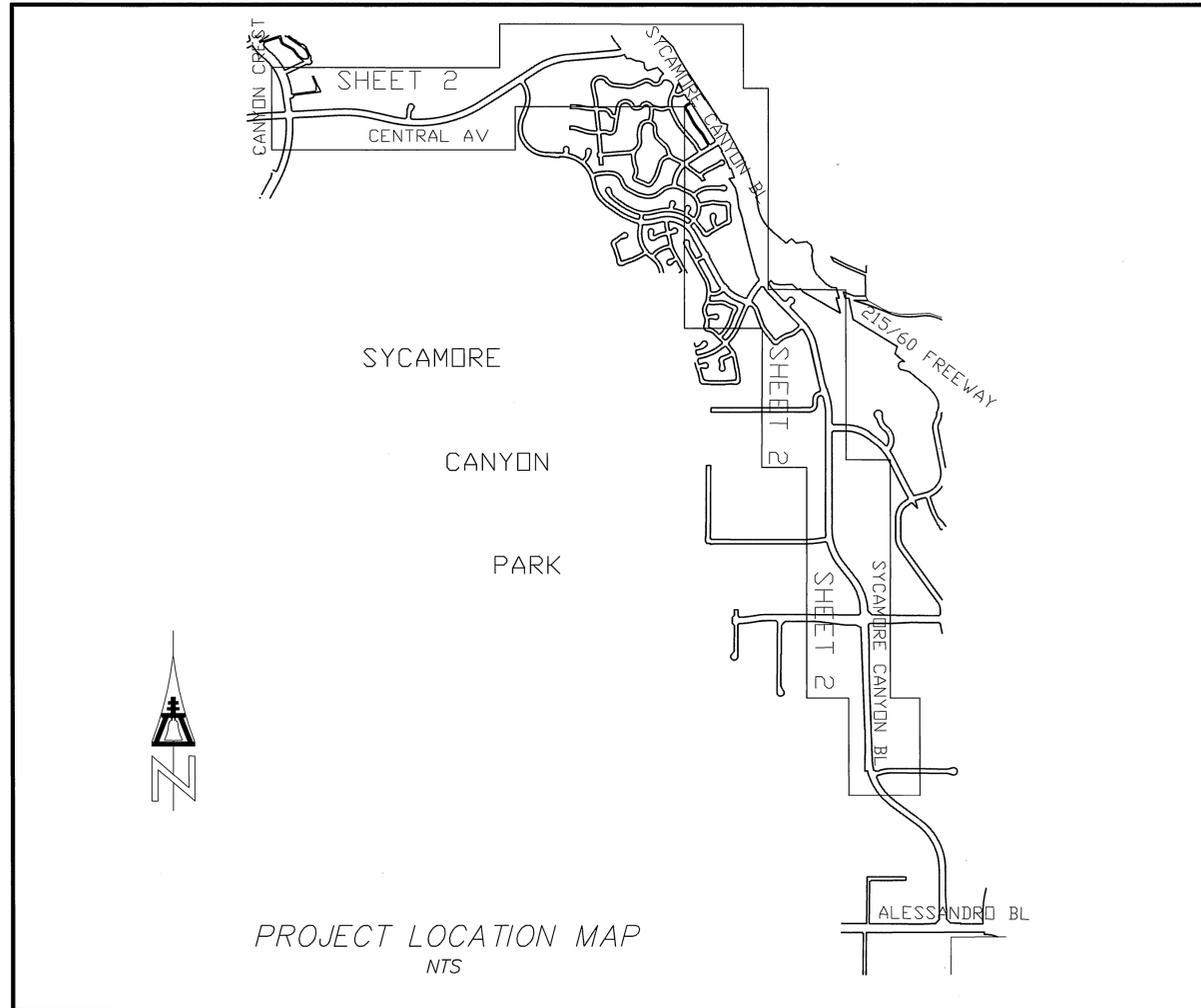
SYCAMORE CANYON BLVD

SYCAMORE CANYON BLVD BETWEEN CENTRAL AVE

AND COTTONWOOD AVE

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.
- ⬡[#]_{XX} SEWER MANHOLE NUMBER.
REPAIR SEWER MANHOLE (XX=TYPE PER PLAN).
THE FOLLOWING IS THE REPAIR LEGEND:
SAN=COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL;
FULL=CONTRACTOR SHALL REMOVE ALL EXISTING LINER WITHIN MANHOLE AND APPLY SANCON 100 OR CITY APPROVED EQUAL TO THE GRADE RINGS, MANHOLE SHAFT AND BASE AREAS.
WELD=WELD GRADE RINGS AND COAT BASE AND GRADE RINGS WITH SANCON 100 OR CITY APPROVED EQUAL.
BASE=COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.
LOCK=REPAIR/PATCH EXISTING DAMAGED T-LOCK LINER WITH ARROWLOCK LINER OR CITY APPROVED EQUAL, COAT GRADE RING, MANHOLE SHAFT AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.
- ⬡^{F&C}_{XX} CONTRACTOR SHALL FURNISH AND INSTALL NEW FRAME AND COVER MANHOLE FRAME AND COVER SIZE (XX=TYPE PER PLAN).



EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER — 8" S — TELEPHONE CONDUIT — T —
 WATER LINE — 6" W — ELECTRICAL CONDUIT — E — E
 GAS LINE — 3" G —

EXISTING TOPOGRAPHY:

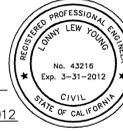
--- GURB AND GUTTER
 --- R/W
 --- C/L
 --- P/L

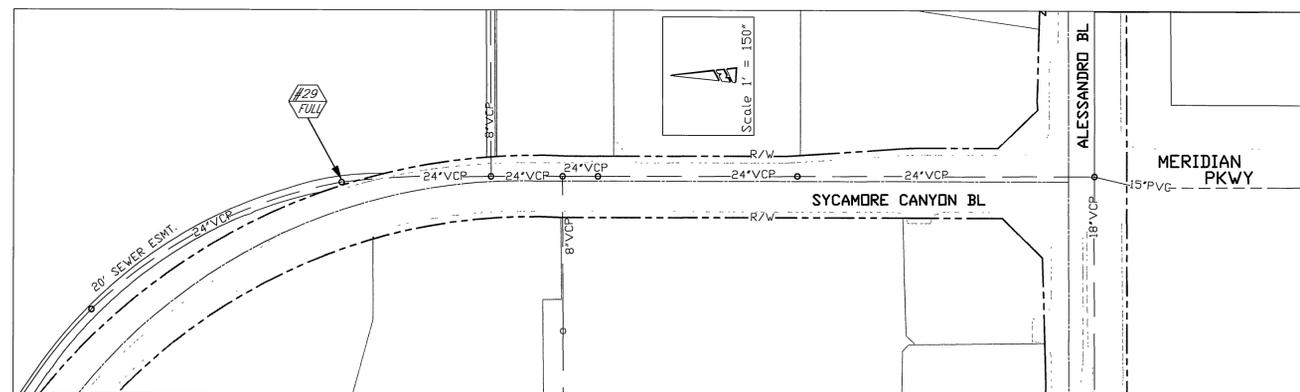
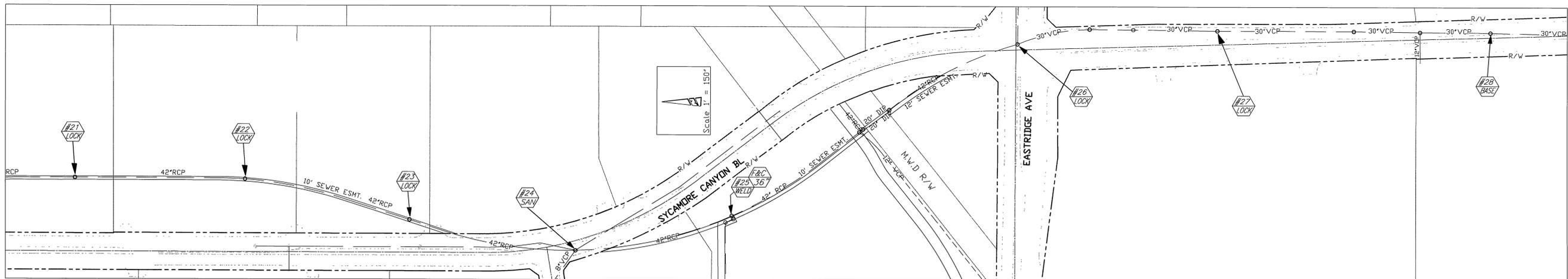
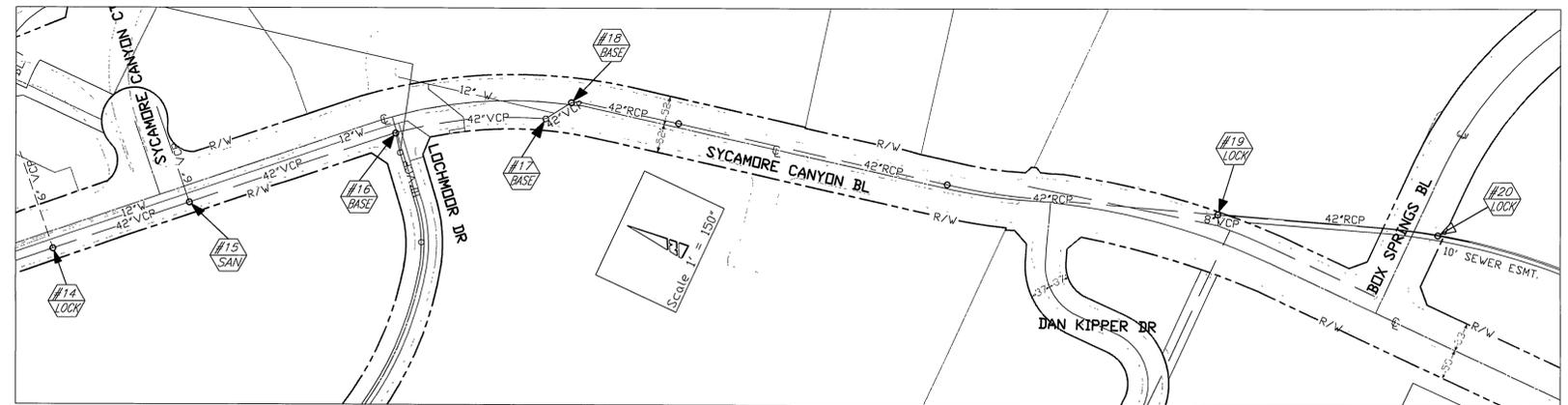
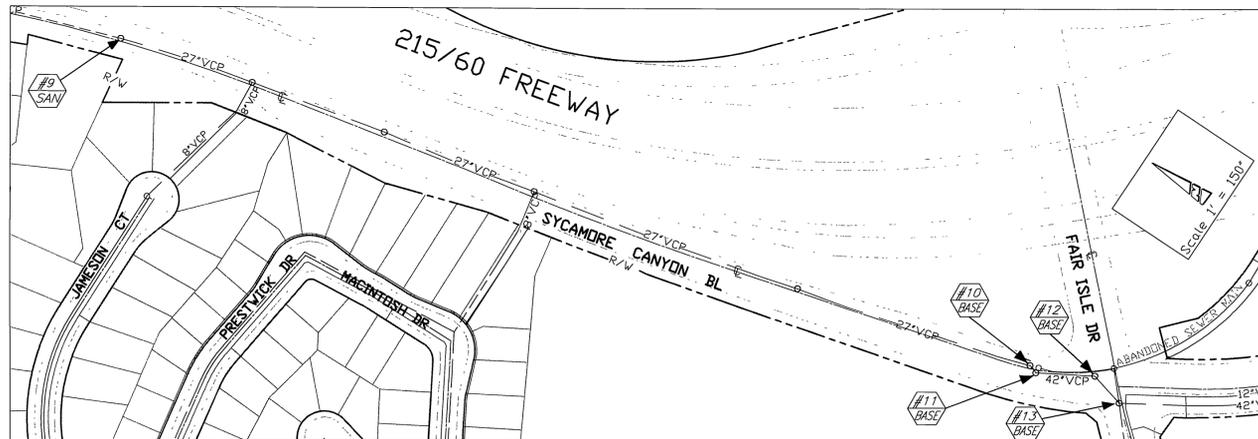
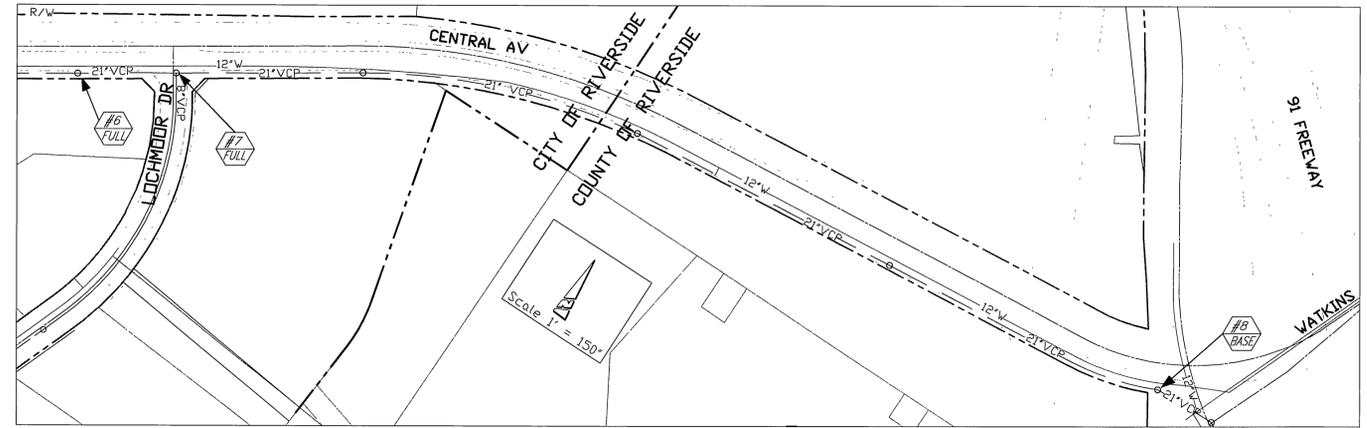
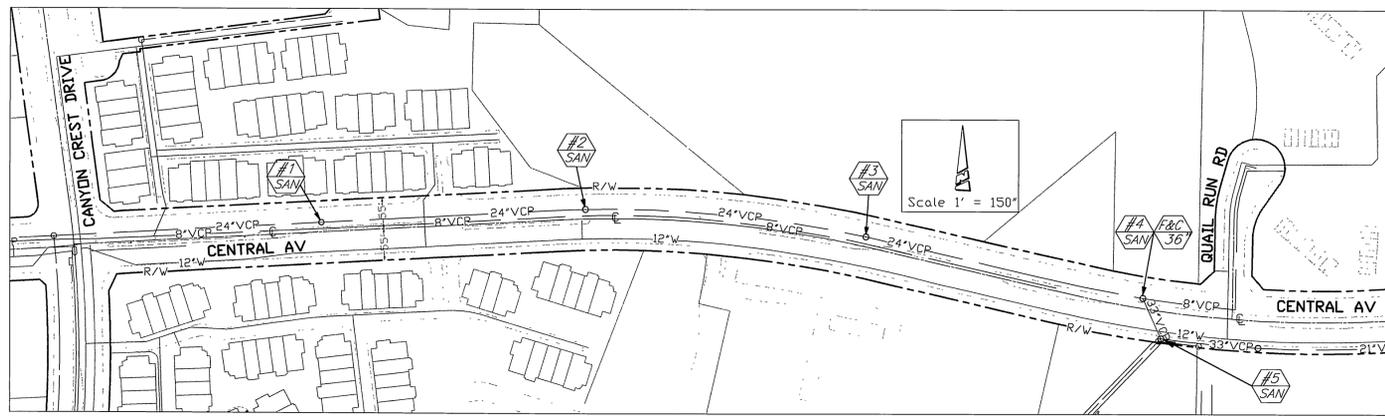
NOTE:

- FOR A DESCRIPTION OF WORK REQUIRED ON EACH MANHOLE. SEE SHEET 3.
- BASE AREAS REFER TO THE MANHOLE SHELF.

SHEET INDEX:

SHEET NO.	DESCRIPTION
1.	TITLE SHEET AND NOTES.
2.	PLAN VIEW.
3.	TABLE FOR SEWER REPAIR.

 Under Ground Service Alert of Southern California Call: TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG	 ENGINEER IN RESPONSIBLE CHARGE LONNY LEW YOUNG R.C.E. No. 43216 EXPIRES: 3-31-2012 DATE 02/24/2011		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	SEWER MANHOLE REPAIR CENTRAL AVE, SYCAMORE CANYON BLVD SEWER MANHOLE REPAIR PHASE II TITLE SHEET	ACCT. NO 9836623203 440301XX DESIGN WORK ORDER NO.: 0915552 S-2082 SHEET 1 OF 3 FILE NAME:
			APPROVED BY: [Signature] DATE: 2/25/11 BY: [Signature] DATE: 02/24/11 PRINCIPAL ENGINEER: [Signature] DATE: 2/25/11 CONSTRUCTION ADMIN. [Signature] SURVEY [Signature] TRAFFIC DIVISION	APPROVED BY: [Signature] DATE: 2/25/11 CITY ENGINEER	HORIZ. SCALE: N/A VERT. SCALE: N/A



NOTE:

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- SEWER MANHOLE NUMBER. REPAIR SEWER MANHOLE (XX=TYPE PER PLAN). THE FOLLOWING IS THE REPAIR LEGEND:
 SAN=COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL;
 FULL=CONTRACTOR SHALL REMOVE ALL EXISTING LINER WITHIN MANHOLE AND APPLY SANCON 100 OR CITY APPROVED EQUAL TO THE GRADE RINGS, MANHOLE SHAFT AND BASE AREAS.
 WELD=WELD GRADE RINGS AND COAT BASE AND GRADE RINGS WITH SANCON 100 OR CITY APPROVED EQUAL.
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 LOCK=REPAIR/PATCH EXISTING DAMAGED T-LOCK LINER WITH ARROWLOCK LINER OR CITY APPROVED EQUAL, COAT GRADE RING, MANHOLE SHAFT AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW SEWER MANHOLE FRAME AND COVER MANHOLE FRAME AND COVER SIZE.



ENGINEER IN RESPONSIBLE CHARGE

LOUIS L. YOUNG
 CIVIL
 STATE OF CALIFORNIA
 R.C.E. No. 43216 EXPIRES: 3-31-2012
 DATE 02/24/2011



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	PH	2/25/11	Handwritten Signature
PRINCIPAL ENGINEER	PH	02/24/2011	CITY ENGINEER
CONSTRUCTION ADMIN.	PH	2/25/11	DATE 2/25/11
SURVEY			
TRAFFIC DIVISION			

SEWER MANHOLE REPAIR	
CENTRAL AVE, SYCAMORE CANYON BLVD	
SEWER MANHOLE REPAIR PHASE II	
PLAN VIEW	
HORIZ. SCALE: 1"=150'	VERT. SCALE: N/A

ACCT. NO. 9836623203 440301XX DESIGN WORK ORDER NO. 0915552
S-2082
SHEET 2 OF 3
FILE NAME:

SEWER MANHOLE REPAIR

SEWER MH #	ADD'L PERMITS	STREET NAME	WORK REQUIRED	MH SIZE	EXISTING MH SHAFT LINING	RIM TO IE
1		CENTRAL AVENUE	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	10'
2		CENTRAL AVENUE	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	10'
3		CENTRAL AVENUE	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	9'
4		CENTRAL AVENUE	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL. FURNISH AND INSTALL NEW FRAME AND COVER	60" DIAMETER	T-LOCK	11'
5		CENTRAL AVENUE	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	9'
6		CENTRAL AVENUE	FULL MANHOLE REHAB. CONTRACTOR TO REMOVE ALL MANHOLE LINER AND COAT BASE AREAS, MANHOLE SHAFT AND GRADE RINGS WITH SANCON 100 OR CITY APPROVED EQUAL.	4'X4' SQUARE MH	COAL TAR EPOXY	4'
7		CENTRAL AVENUE	FULL MANHOLE REHAB. CONTRACTOR TO REMOVE ALL MANHOLE LINER AND COAT BASE AREAS, MANHOLE SHAFT AND GRADE RINGS WITH SANCON 100 OR CITY APPROVED EQUAL.	4'X4' SQUARE MH	COAL TAR EPOXY	4'
8	**	CENTRAL AVENUE	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	9'
9	*	SYCAMORE CANYON BLVD	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	9'
10	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	9'
11	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	11'
12	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	14'
13	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	19'
14	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL. PATCH DAMAGED T-LOCK AROUND PIPE PENETRATION USING ARROWLOCK OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	19'
15	*	SYCAMORE CANYON BLVD	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	17'
16	*	SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	17'
17		SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	19'
18		SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	19'
19		SYCAMORE CANYON BLVD	REMOVE EXISTING T-LOCK 5' ABOVE AND BELOW INTERMEDIATE LANDING AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL, COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	30'
20		SYCAMORE CANYON BLVD	REMOVE EXISTING T-LOCK 5' ABOVE AND BELOW INTERMEDIATE LANDING AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL, COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	32'
21		SYCAMORE CANYON BLVD	REMOVE EXISTING T-LOCK 5' ABOVE AND BELOW INTERMEDIATE LANDING AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL, COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	40'
22		SYCAMORE CANYON BLVD	REMOVE EXISTING T-LOCK 5' ABOVE AND BELOW INTERMEDIATE LANDING AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL, COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	35'
23		SYCAMORE CANYON BLVD	REMOVE EXISTING T-LOCK 5' ABOVE AND BELOW INTERMEDIATE LANDING AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL, COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	35'
24		SYCAMORE CANYON BLVD	COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	28'
25		SYCAMORE CANYON BLVD	WELD AND FINISH GRADE RING. COAT GRADE RING AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL. FURNISH AND INSTALL NEW FRAME AND COVER.	72" DIAMETER	T-LOCK	27'
26		SYCAMORE CANYON BLVD	REMOVE VERTICALLY 5' OF T-LOCK AT UPPER MANHOLE SHAFT AND REPAIR WITH ARROWLOCK OR CITY APPROVED EQUAL. COAT GRADE RINGS AND BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	72" DIAMETER	T-LOCK	25'
27		SYCAMORE CANYON BLVD	REPAIR EXISTING T-LOCK @ BENCH/CHANNEL TRANSITION WITH ARROWLOCK OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	19'
28		SYCAMORE CANYON BLVD	COAT BASE AREAS WITH SANCON 100 OR CITY APPROVED EQUAL.	60" DIAMETER	T-LOCK	19'
29		CENTRAL AVENUE	FULL MANHOLE REHAB. CONTRACTOR TO REMOVE ALL MANHOLE LINER AND COAT BASE AREAS, MANHOLE SHAFT AND GRADE RINGS WITH SANCON 100 OR CITY APPROVED EQUAL.	4'X4' SQUARE MH	COAL TAR EPOXY	4'

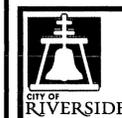
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* MANHOLES LOCATED WITHIN CALTRANS RIGHT OF WAY
 ** MANHOLES LOCATED WITHIN COUNTY OF RIVERSIDE RIGHT OF WAY



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 TWO WORKING DAYS BEFORE YOU DIG



ENGINEER IN RESPONSIBLE CHARGE
Lonny L. Young
 LONNY L. YOUNG
 R.C.E. No. 43216 EXPIRES: 3-31-2012
 DATE 02/24/2011



MARK	REVISIONS	APPR.	DATE
DESIGNED BY	LA	DRAWN BY	LA
CHECKED BY	LY		

**CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS**

APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	<i>DL</i>	2/25/11	<i>Lonny L. Young</i>
PRINCIPAL ENGINEER	<i>DL</i>	02/24/2011	CITY ENGINEER
CONSTRUCTION ADMIN.	<i>DL</i>	2/25/11	DATE 2/25/11
SURVEY			
TRAFFIC DIVISION			

SEWER MANHOLE REPAIR

CENTRAL AVE, SYCAMORE CANYON BLVD
 SEWER MANHOLE REPAIR PHASE II

TABLE OF REPAIR

HORIZ. SCALE: N/A VERT. SCALE: N/A

ACCT. NO 9836623203 440301XX
 DESIGN WORK ORDER NO.: 0915552

S-2082

SHEET 3 OF 3

FILE NAME: