

GENERAL NOTES:

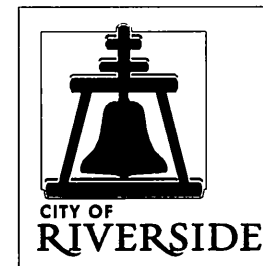
- 1 EXISTING UTILITIES SHOWN ON THE PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- 2 PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A", "C-34", OR A "C-42" LICENSE.
- 3 ALL ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.
- 4 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 5 TRENCHES SHALL EITHER BE BACKFILLED AND COMPACTED PER STD. DWG. 453 OR COVERED WITH TRAFFIC RATED STEEL PLATES AT THE END OF EACH WORK DAY AS SPECIFIED IN THE SPECIAL PROVISIONS.
- 6 WATER VALVES ENCOUNTERED DURING PIPELINE CONSTRUCTION OR DURING RESTORATION OF SURFACE IMPROVEMENTS SHALL BE PROTECTED IN PLACE, RESTORED TO PRECONSTRUCTION CONDITION AND/OR ADJUSTED TO GRADE.
- 7 PIPE BEDDING SHALL BE PER STD. DWG. 452 AND CASE SHALL BE AS SPECIFIED ON THE PLANS.
- 8 CONTRACTOR SHALL PERFORM A PRECONSTRUCTION VIDEO OF THE SEWER MAIN LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VIDEOING ALL SEWER LATERALS FROM THE MAINLINE TO PROPERTY LINE ON SINGLE FAMILY RESIDENCES (SFR).
- 9 PIPE JOINTS FOR PROPOSED VCP SHALL BE TYPE "G", PER SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS. PIPE JOINTS FOR JOINING EXISTING VCP TO PROPOSED VCP SHALL BE TYPE "Z", PER SECTION 208-5 OF THE STANDARD SPECIFICATIONS.
- 10 SERVICE LATERALS REPAIR SHALL BE PERFORMED AFTER CCTV INSPECTION REPORT HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
- 11 ANY WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AND THE NECESSARY TIMING ADJUSTMENTS ARE MADE TO MAINTAIN SIGNAL OPERATION.
- 12 CONTRACTOR SHALL REPLACE ALL EXISTING TRAFFIC DETECTOR LOOPS AFFECTED BY CONSTRUCTION.
- 13 LINER MATERIAL SHALL BE MACHINE SPIRAL-WOUND INTERLOCKING POLYVINYL CHLORIDE (PVC) LINER, EXPANDA OR CITY APPROVED EQUAL.

SPECIFIC 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 OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

- (C0) CONSTRUCT SEWER CLEANOUT PER DETAIL ON SHEET 1
- (R) REMOVE EXISTING MANHOLE AND CONNECT EXISTING MAIN TO PROPOSED MANHOLE
- 1 ABANDON EXISTING SEWER IN PLACE
- 2 EXISTING SEWER TO REMAIN IN SERVICE
- 3 PROTECT AND SUPPORT IN PLACE
- 4 CONNECT EXISTING SERVICE LATERALS TO PROPOSED 18" SEWER
- 5 REALIGN SERVICE LATERAL TO CONNECT TO EXISTING MAIN WITH A TWO FEET MINIMUM CLEARANCE FROM PROPOSED MANHOLE
- 6 PROTECT IN PLACE. PRIOR TO CONSTRUCTION VERIFY LOCATION. IF RELOCATION REQUIRED, GIVE CITY WATER FORCES 15 DAYS NOTICE.
- 7 EXTEND EXISTING PIPE TO CONNECT TO PROPOSED 18" VCP.
- 8 SEE PVC ENCASING DETAIL ON SHEET 5B.

RIVERSIDE CALIFORNIA



PUBLIC WORKS DEPARTMENT

MAGNOLIA-FILLMORE-GOLDEN SEWER FROM SR-91 TO COCHRAN AVE

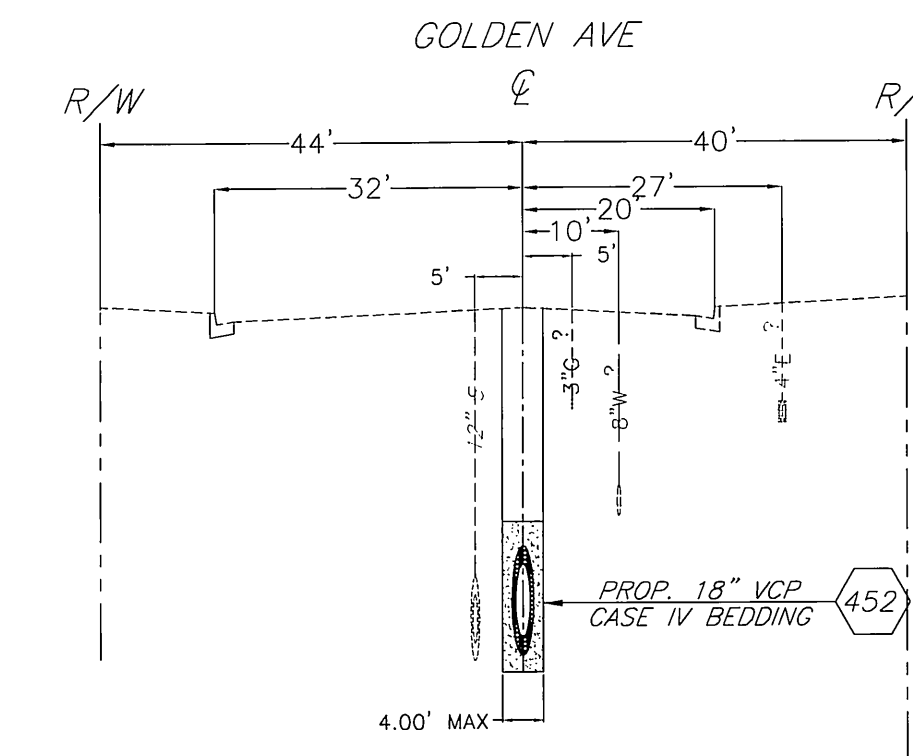
EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

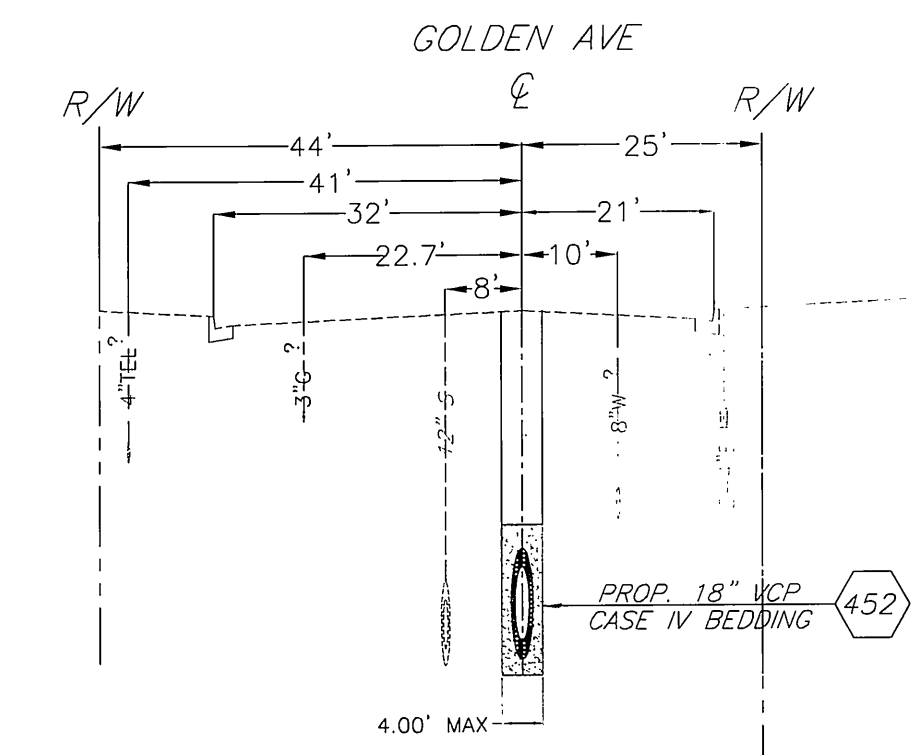
SANITARY SEWER	8" S	TELEPHONE CONDUIT	T	T
WATER LINE	12" W	ELECTRICAL CONDUIT	E	E
STORM DRAIN	10" SD	GAS LINE	3" G	
		CABLE TV	CATV	

(S) SANITARY SEWER M.H.
(D) STORM DRAIN M.H.

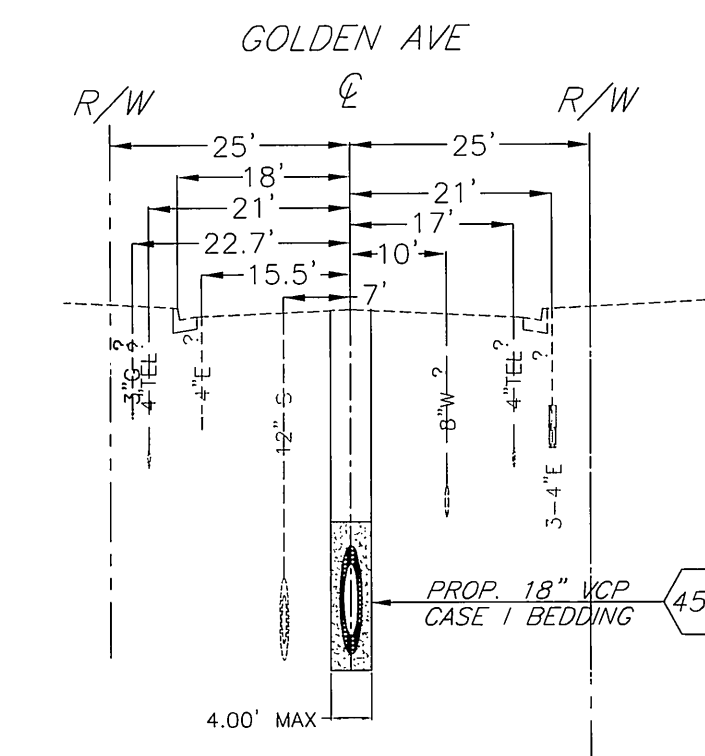
TYPICAL SECTIONS PROPOSED 18" SEWER



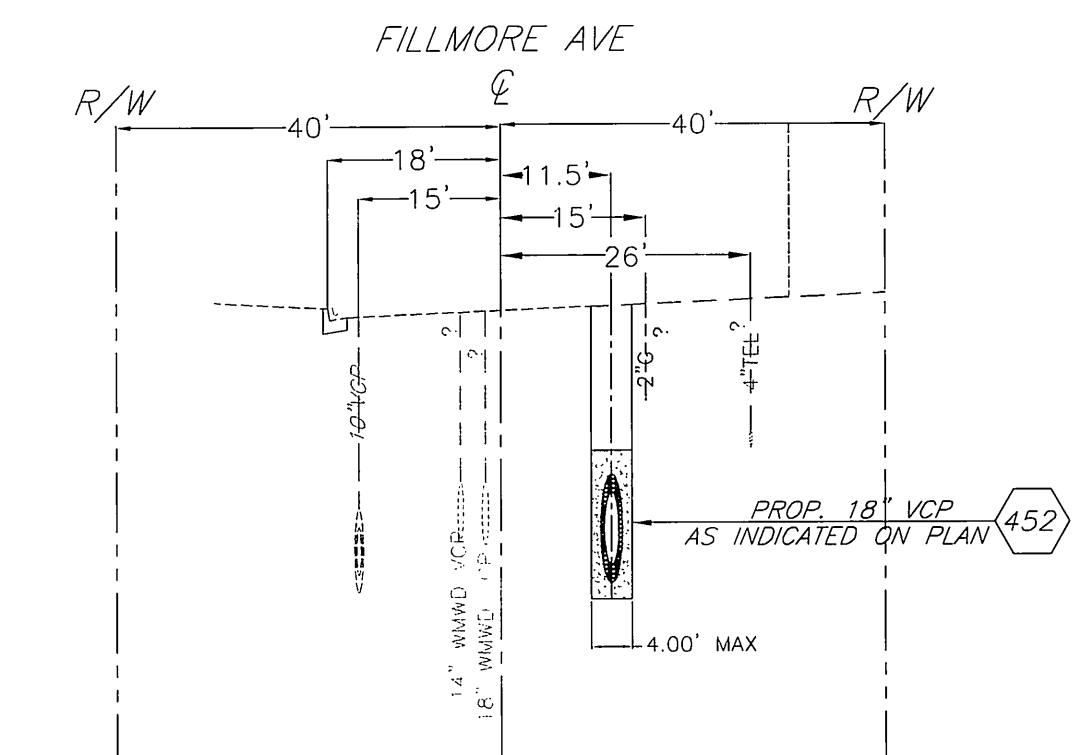
GOLDEN AVE
SEWER STA. 10+00 TO 20+56.58
& 24+20 TO 26+37.16
NO SCALE



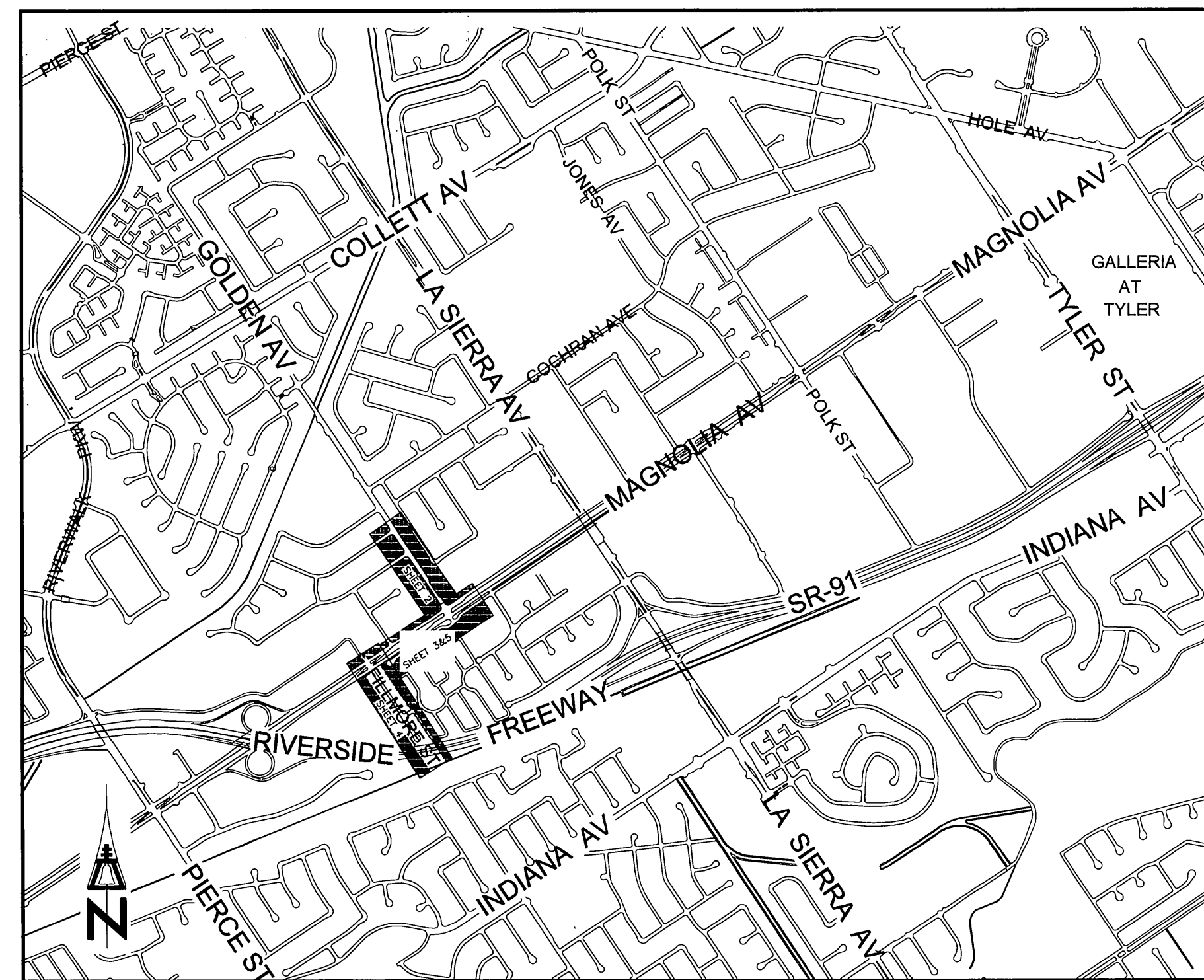
GOLDEN AVE
SEWER STA. 20+56.58 TO 22+00
NO SCALE



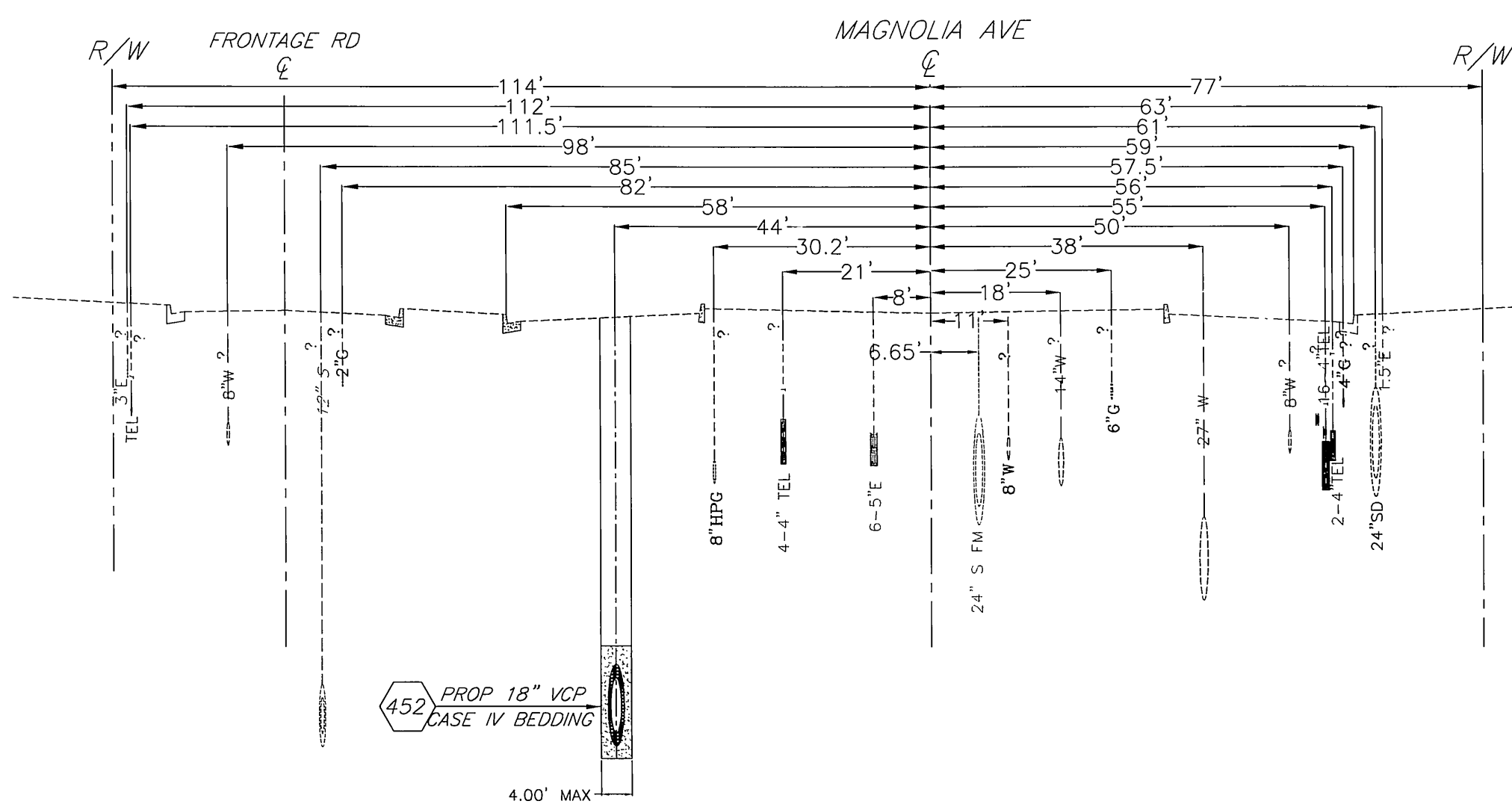
GOLDEN AVE
SEWER STA. 22+00 TO 24+20.00
NO SCALE



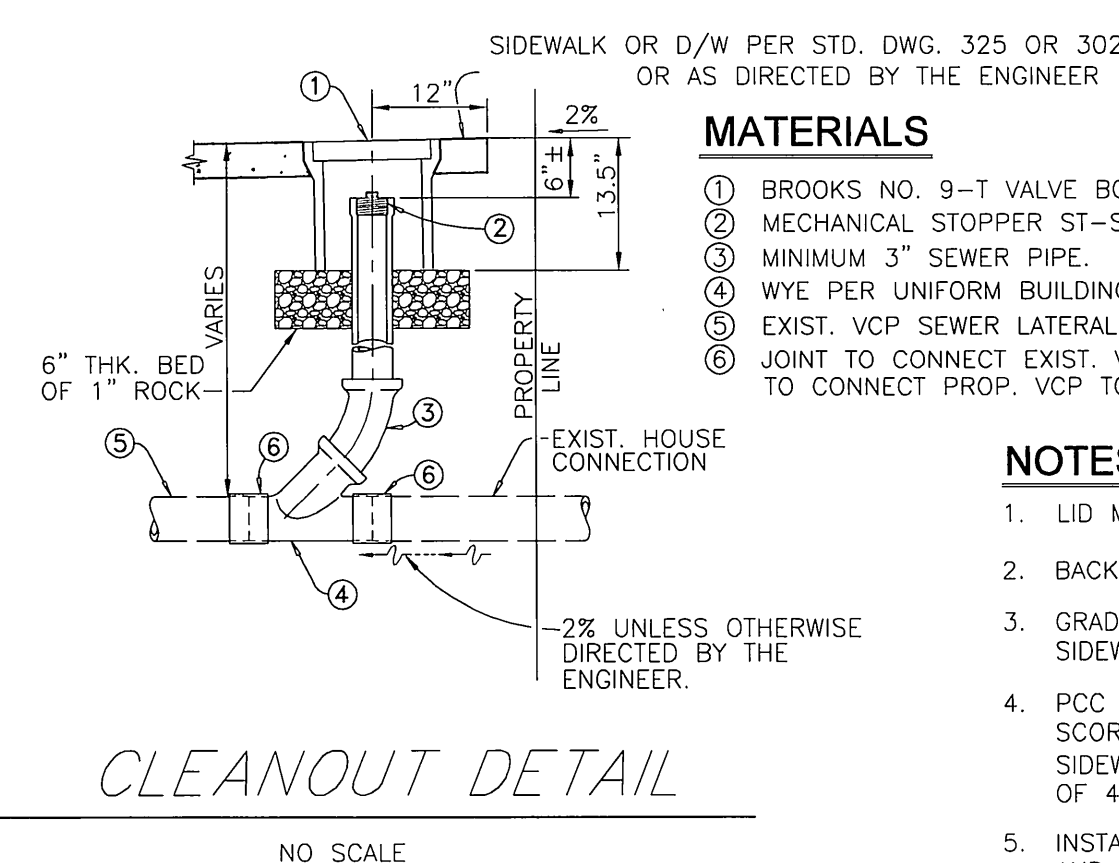
FILLMORE ST
SEWER STA. 36+32.83 TO 44+69.51
NO SCALE



PROJECT LOCATION MAP
NTS



MAGNOLIA AVE
SEWER STA. 26+37.16 TO 36+32.83
NO SCALE



CLEANOUT DETAIL
NO SCALE

MATERIALS

- 1 BROOKS NO. 9-T VALVE BOX OR EQUAL. (MARKED SEWER)
- 2 MECHANICAL STOPPER ST-SERIES BY MISSION RUBBER COMPANY OR CITY APPROVED EQUAL.
- 3 MINIMUM 3" SEWER PIPE
- 4 WYE PER UNIFORM BUILDING CODE.
- 5 EXIST. VCP SEWER LATERAL.
- 6 JOINT TO CONNECT EXIST. VCP TO PROP. VCP SHALL BE TYPE "Z" JOINTS. JOINTS TO CONNECT PROP. VCP TO PROP. VCP SHALL BE TYPE "G".

NOTES:

1. LID MUST BE CAST IRON AND MARKED SEWER.
2. BACKFILL OVER LATERALS TO BE COMPACTED BY TAMPING ONLY.
3. GRADE PARKWAY AT 2% TOWARDS CURB OR BACK OF SIDEWALK OR AS DIRECTED BY THE ENGINEER.
4. PCC SIDEWALK OR PCC D/W REMOVAL SHALL BE TO THE NEAREST SCORELINE. HOWEVER, NO LESS THAN 25 SQUARE FEET OF SIDEWALK OR D/W WITH THE SMALLEST DIMENSION A MINIMUM OF 4 FEET, SHALL BE REMOVED AND REPLACED.
5. INSTALL SEWER CLEAN OUT IN THE RIGHT OF WAY LOCATION AND AS DIRECTED BY THE ENGINEER. WHERE C.O. IS TO BE PLACED IN A DIRT AREA, A 4-INCH THICK, 24"x24" PCC APRON SHALL BE CONSTRUCTED AROUND IT.

BENCHMARK

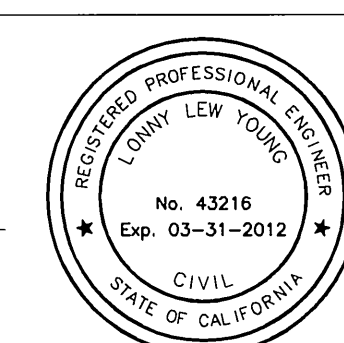
E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
ELEV = 708.065

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert, I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600



ENGINEER IN RESPONSIBLE CHARGE

Lowmy Lew Young
LOWMY LEW YOUNG
R.C.E. No. 43216 expires 03-31-2012
DATE 02/12/2010



MARK	REVISIONS	APPR.	DATE

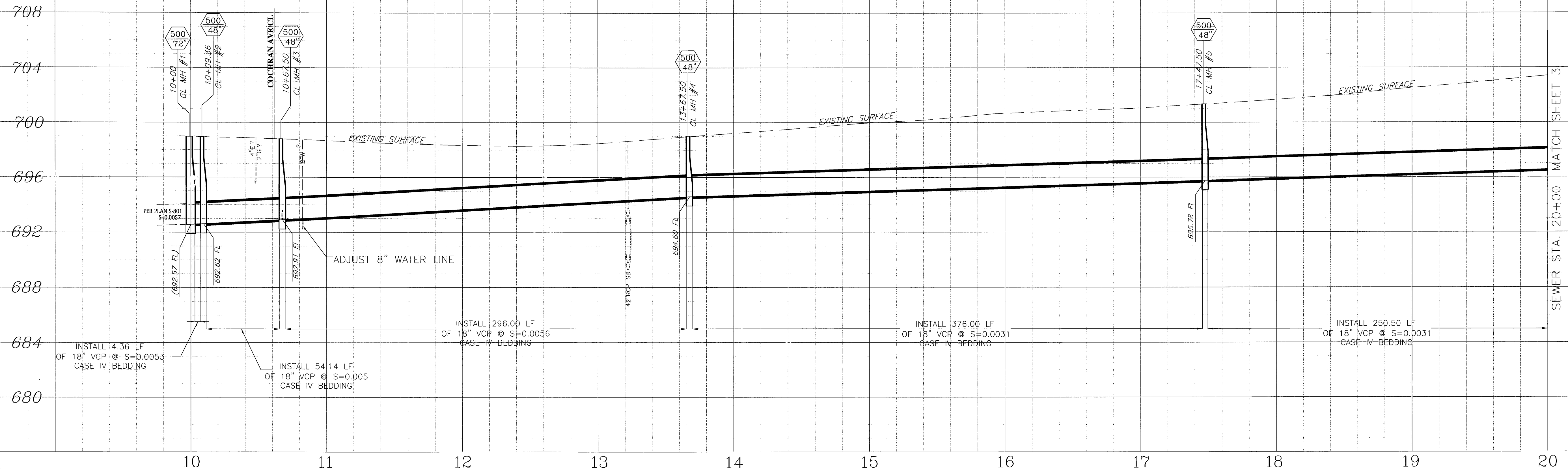
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>[Signature]</i>	02/12/10	<i>[Signature]</i>
INSPECTOR	<i>[Signature]</i>		CITY ENGINEER
SUPERVISOR	<i>[Signature]</i>		
ENGINEERING MANAGER	<i>[Signature]</i>		

MAGNOLIA-FILLMORE-GOLDEN SEWER FROM SR-91 TO COCHRAN AVE

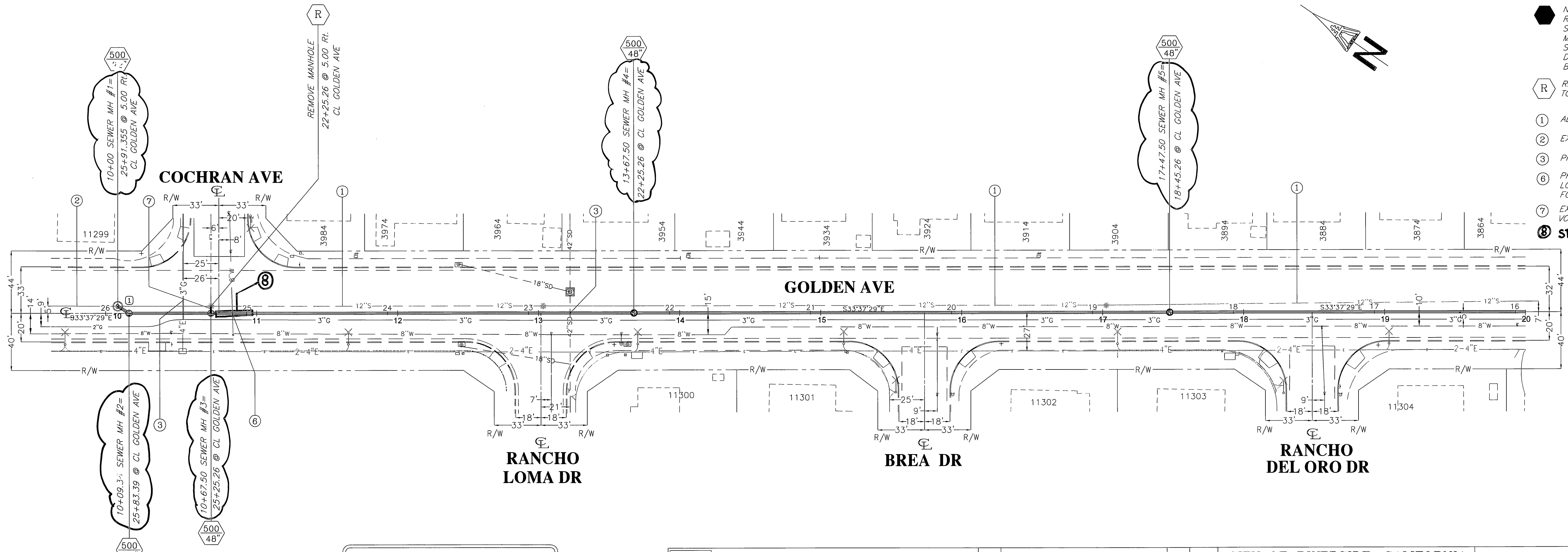
S-2061
SCALE: AS SHOWN
SHEET 1 OF 6

AS BUILT

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SEWER STA. 20+00 MATCH SHEET 3



- SPECIFIC CONSTRUCTION NOTES**
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 - ① ABANDON EXISTING SEWER IN PLACE
 - ② EXISTING SEWER TO REMAIN IN SERVICE
 - ③ PROTECT AND SUPPORT IN PLACE
 - ④ PROTECT IN PLACE. PRIOR TO CONSTRUCTION VERIFY LOCATION. IF RELOCATION REQUIRED, GIVE CITY WATER FORCES 15 DAYS NOTICE.
 - ⑤ EXTEND EXISTING PIPE TO CONNECT TO PROPOSED 18" VCP.
 - ⑥ SEE PVC ENCASING DETAIL ON SHEET 5B

SEWER LINE DATA

	L	BEARING
①	9.36'	S124°21'E

BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV = 708.065

ENGINEER IN RESPONSIBLE CHARGE
 LONNY LEW YOUNG
 R.C.E. No. 43216 expires 03-31-2012
 DATE 05/12/2010



CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

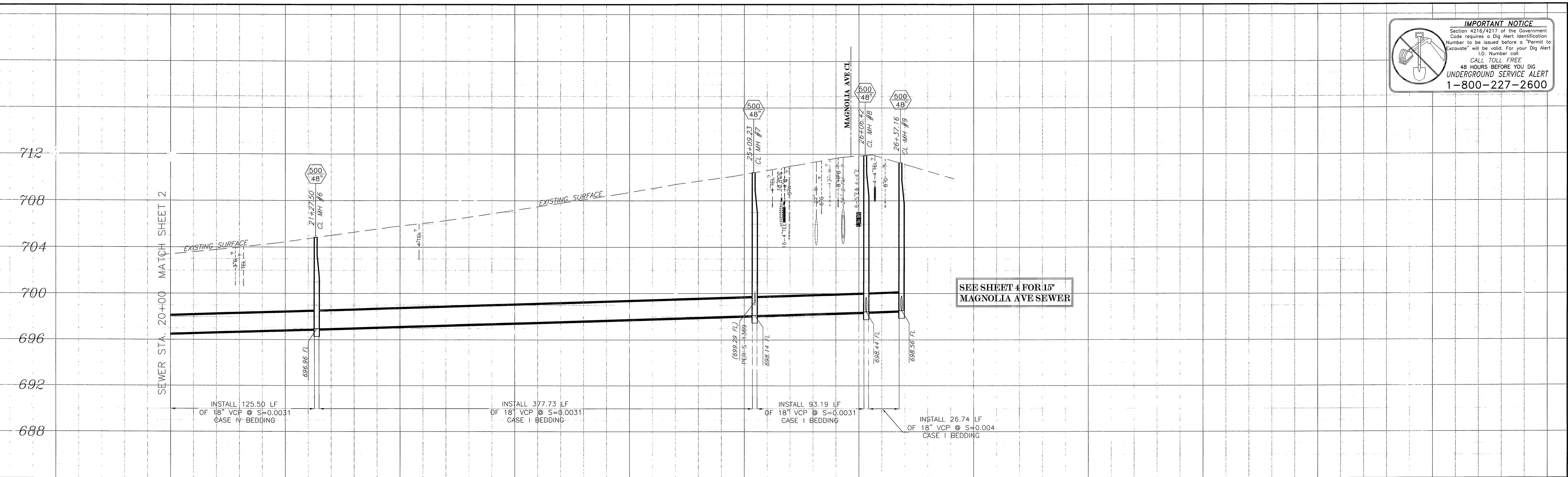
APPROVED BY: [Signature]
 BY: [Signature]
 DATE: 5/20/10

MAGNOLIA-FILLMORE-GOLDEN SEWER
FROM SR-91 TO COCHRAN AVE
S-2061

ACC. No. 9820723203-440301XX
 W.Q. 0901126

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'
 SHEET 2 OF 6

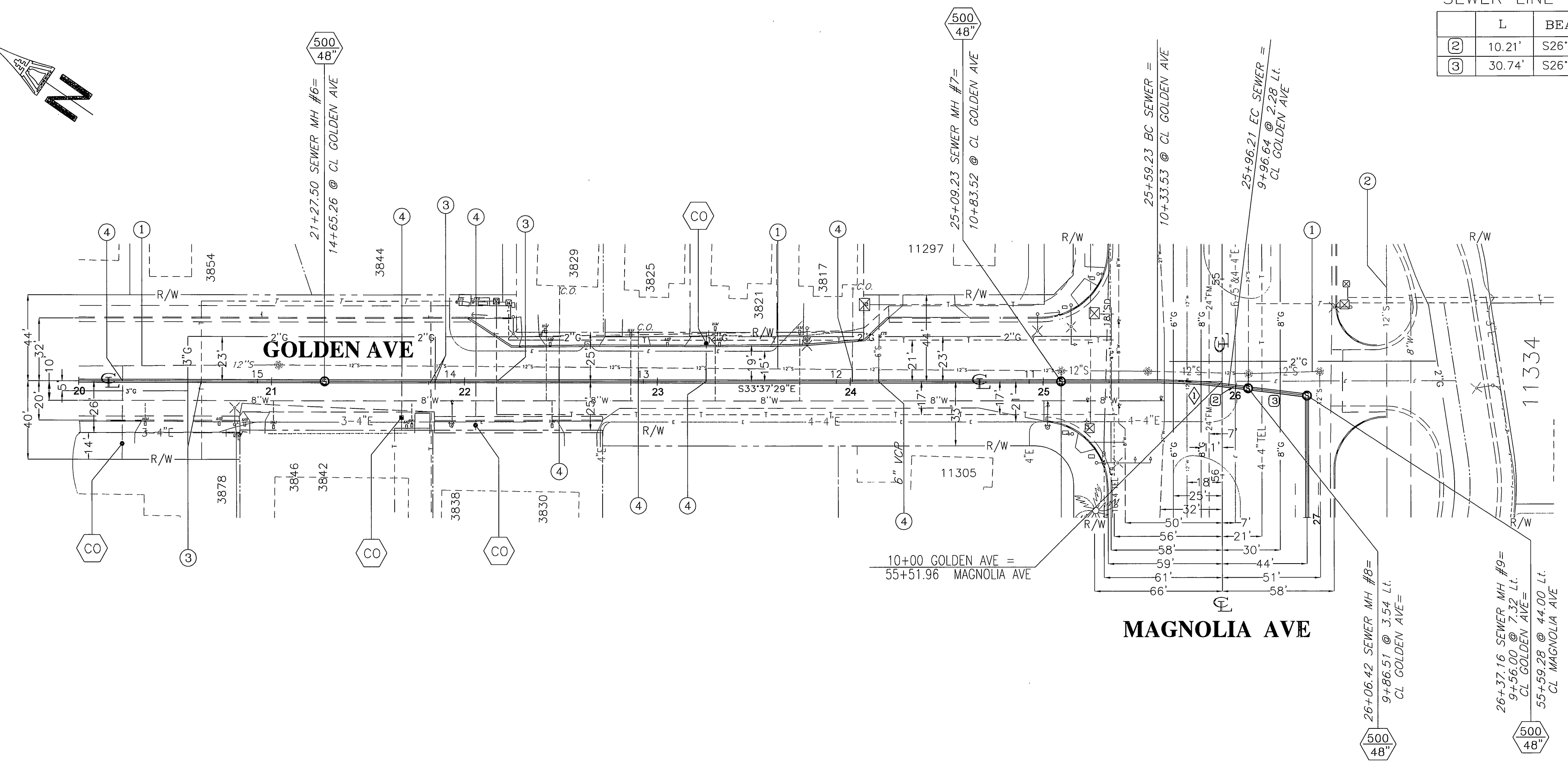
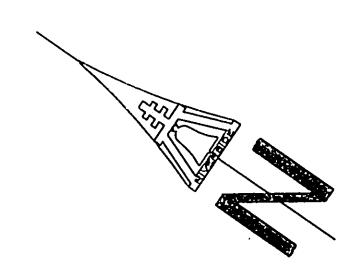
IMPORTANT NOTICE
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SEWER LINE DATA

	L	BEARING
②	10.21'	S26°33'31"E
③	30.74'	S26°33'31"E

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 - ③ PROTECT AND SUPPORT IN PLACE
 - ④ CONNECT EXISTING SERVICE LATERALS TO PROPOSED 18" SEWER



SEWER CURVE DATA

Δ	7°30'47"
R	300'
L	36.98'
T	18.51'

BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV= 708.065

ENGINEER IN RESPONSIBLE CHARGE
 LORNE NEW YOUNG
 No. 43216
 Exp. 03-31-2012
 R.C.E. No. 43216 expires 03-31-2012
 DATE 02/12/2010



CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]
 BY: [Signature]
 DATE: 5/2/10

INSPECTION: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]

MAGNOLIA-FILLMORE-GOLDEN SEWER
 FROM SR-91 TO COCHRAN AVE

ACC. No. 9820723203-440J01XX
 W.O. 0901126

S-2061

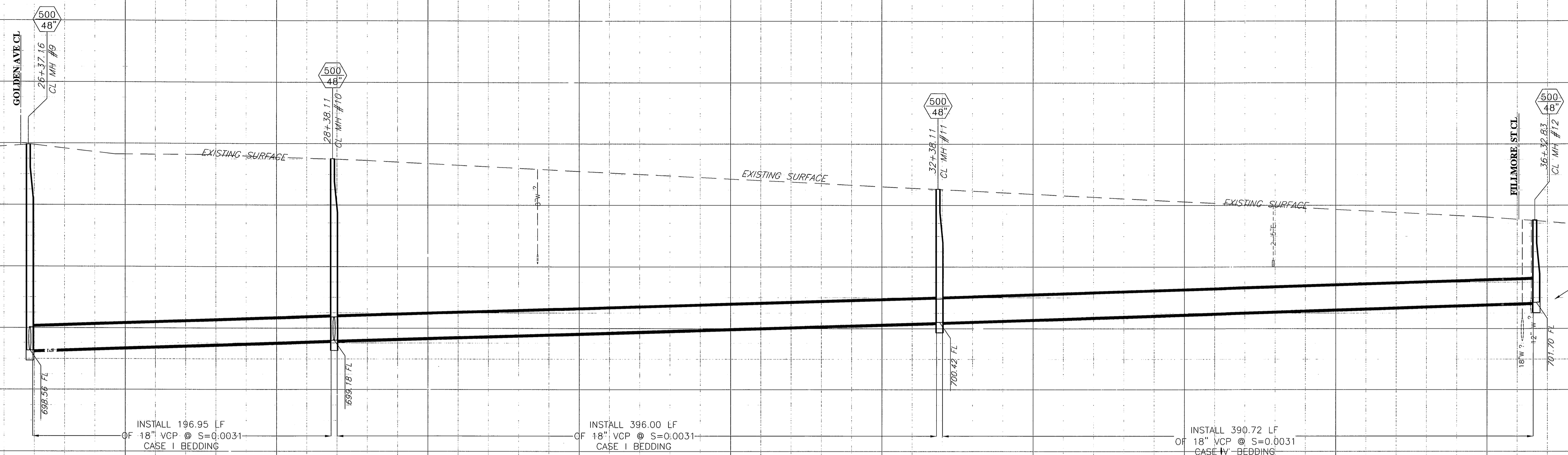
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

SHEET 3 OF 6

AS BUILT

724
720
716
712
708
704
700
696

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CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600



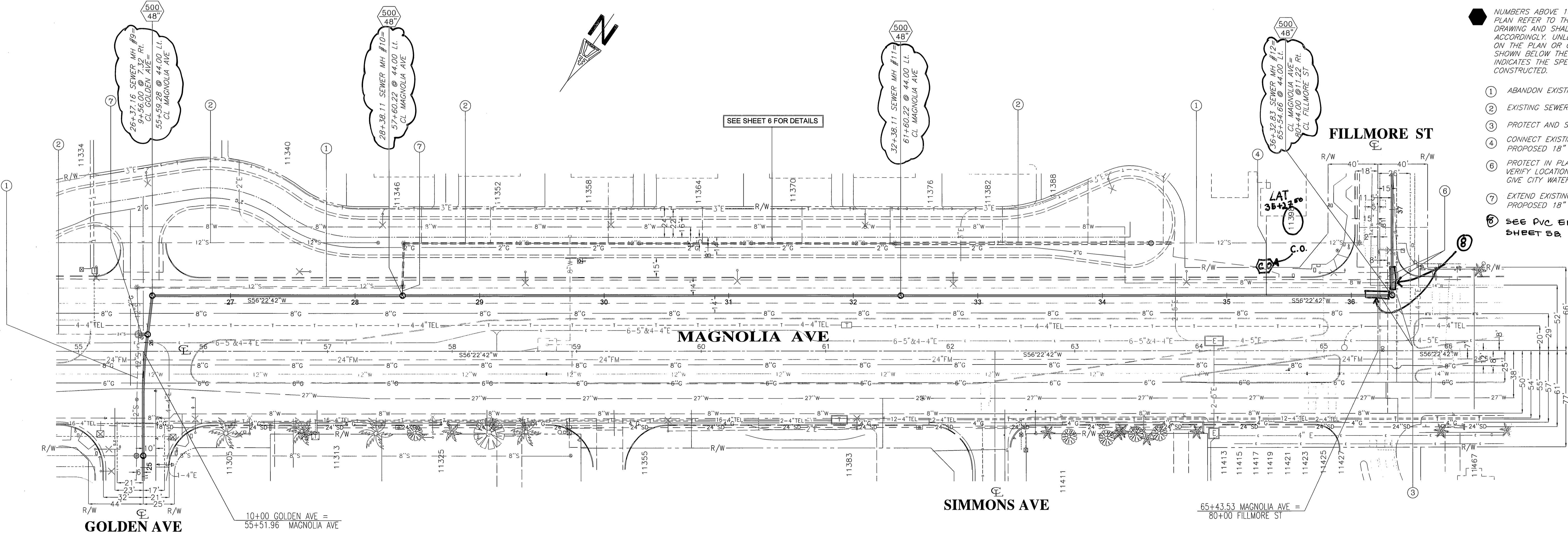
SEE SHEET 5 FOR 18" FILLMORE ST SEWER

LOCATE AND ADJUST 12"W AS NECESSARY

26 27 28 29 30 31 32 33 34 35 36 37

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- ⑦ EXTEND EXISTING PIPE TO CONNECT TO PROPOSED 18" VCP.
- ⑧ SEE PVC ENCASING DETAIL ON SHEET SB.



SEE SHEET 6 FOR DETAILS

FILLMORE ST

MAGNOLIA AVE

SIMMONS AVE

65+43.53 MAGNOLIA AVE = 80+00 FILLMORE ST

GOLDEN AVE

BENCHMARK
E2-K5: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
ELEV- 708.065

ENGINEER IN RESPONSIBLE CHARGE
LOND L. YOUNG
R.C.E. No. 43216 expires 03-31-2012
DATE 05/12/2010

REGISTERED PROFESSIONAL ENGINEER
COUNTY OF RIVERSIDE
No. 43216
Exp. 03-31-2012
CIVIL
STATE OF CALIFORNIA

A SHEETS SUPERSEDED BY SHEET SB ADD SHEET SB ADD NOTE 8

MARK	REVISIONS	APPR	DATE

DESIGNED BY: MLAMBERG DRAWN BY: MLAMBERG CHECKED BY: RFI

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	RFI	05/12/2010	CITY ENGINEER	Stello	05/12/2010
INSPECTOR					
SUPERVISOR					
ENGINEERING MANAGER					

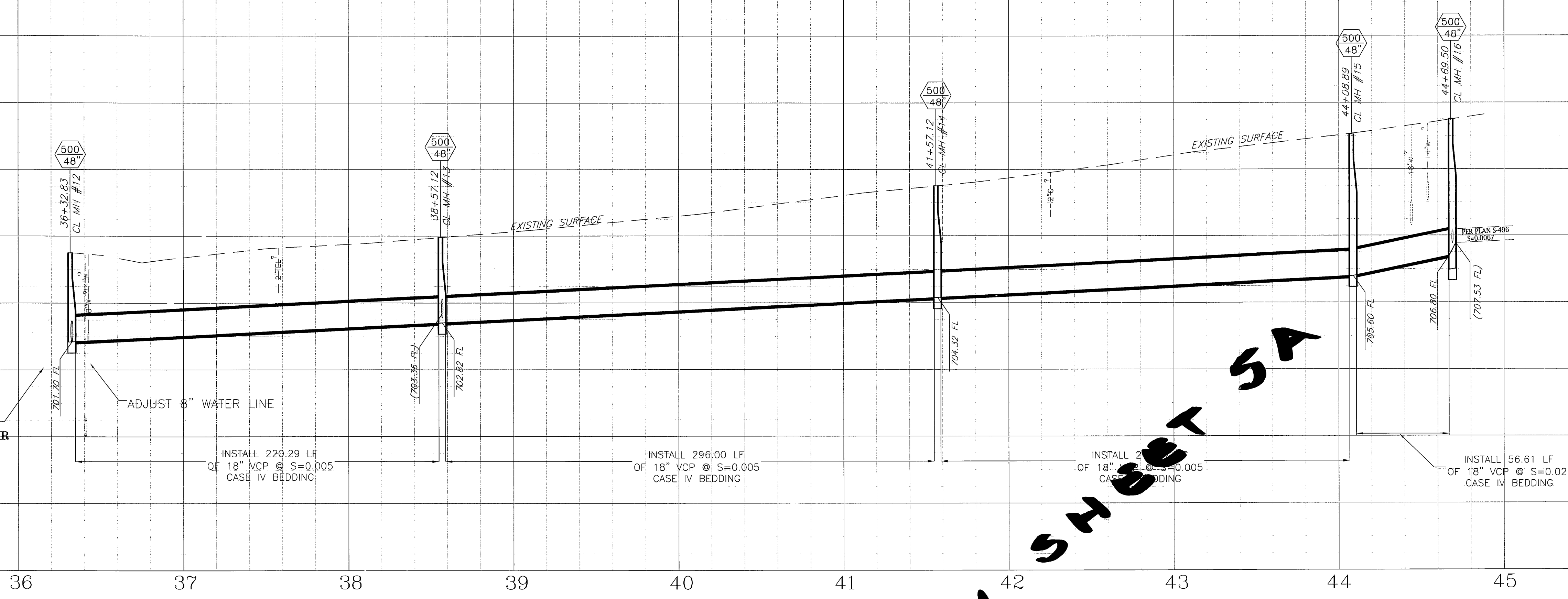
MAGNOLIA-FILLMORE-GOLDEN SEWER
FROM SR-91 TO COCHRAN AVE

ACC. No. 9820523203-440301XX
W.D. 0901140
S-2061
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'
SHEET 4 OF 6

ASBUILT

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724
720
716
712
708
704
700
696
692



SEE SHEET 4 FOR 18" MAGNOLIA AVE SEWER

INSTALL 220.29 LF OF 18" VCP @ S=0.005 CASE IV BEDDING

INSTALL 296.00 LF OF 18" VCP @ S=0.005 CASE IV BEDDING

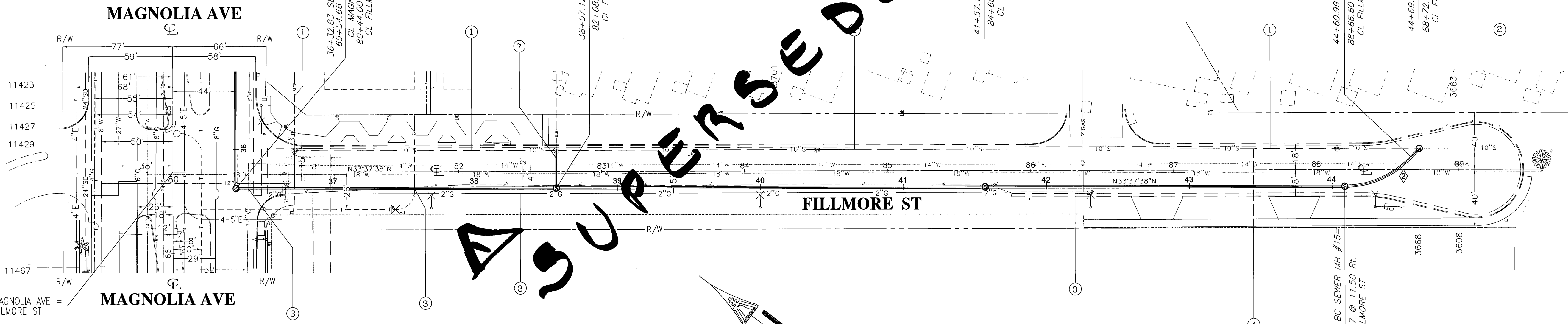
INSTALL 2 OF 18" VCP @ S=0.005 CASE IV BEDDING

INSTALL 56.61 LF OF 18" VCP @ S=0.021 CASE IV BEDDING

SHEET SA

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SEWER CURVE DATA

Δ	46°38'28"
R	64'
L	52.10'
T	27.59'

SEWER LINE DATA

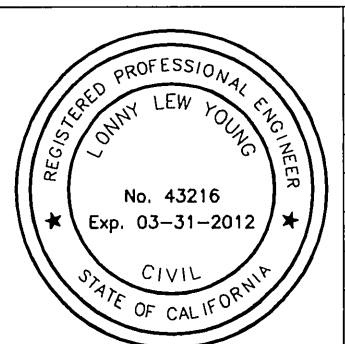
L	BEARING
④	8.51' S80°16'06"E

SUPERSEDED BY SHEET SA

65+43.53 MAGNOLIA AVE = 80+00 FILLMORE ST

BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV= 708.065

ENGINEER IN RESPONSIBLE CHARGE
 LONNY L. YOUNG
 R.C.E. No. 43216 expires 03-31-2012
 DATE 12/12/2010



SHEET 5 SUPERSEDED IN SHEET SA. ADD SHEET SA. ADDED NOTE X

MARK	REVISIONS	APPR.	DATE

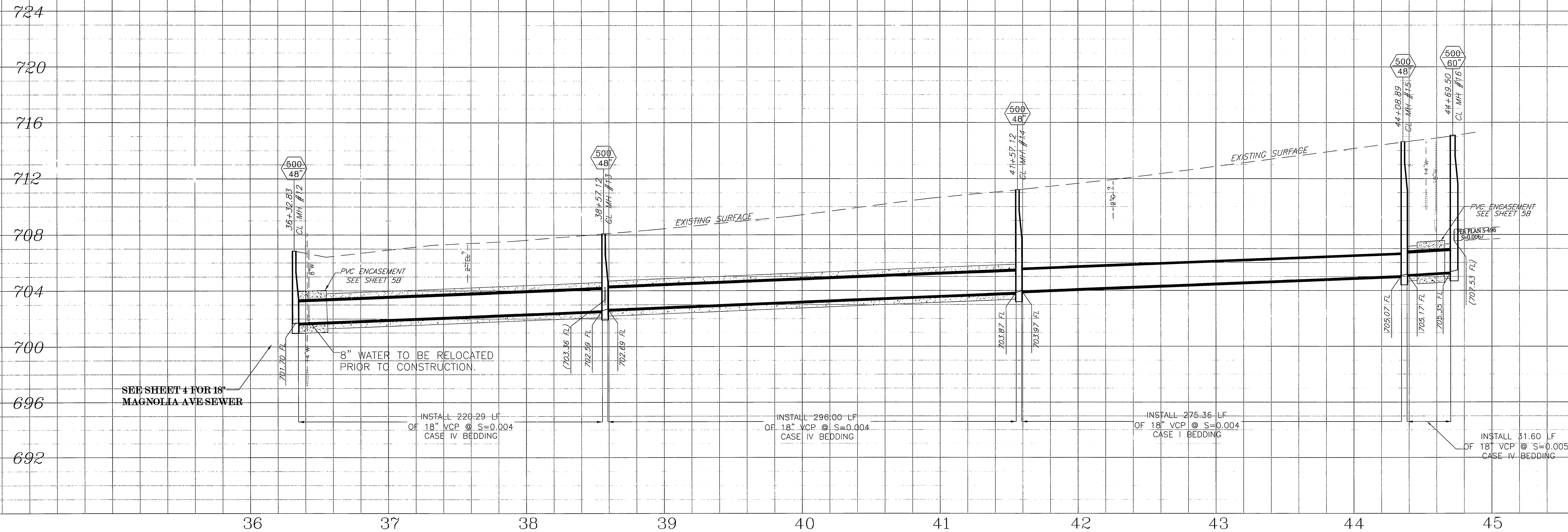
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER	12/12/10	CITY ENGINEER	
INSPECTOR			
ENGINEERING MANAGER			

MAGNOLIA-FILLMORE-GOLDEN SEWER
 FROM SR-91 TO COCHRAN AVE

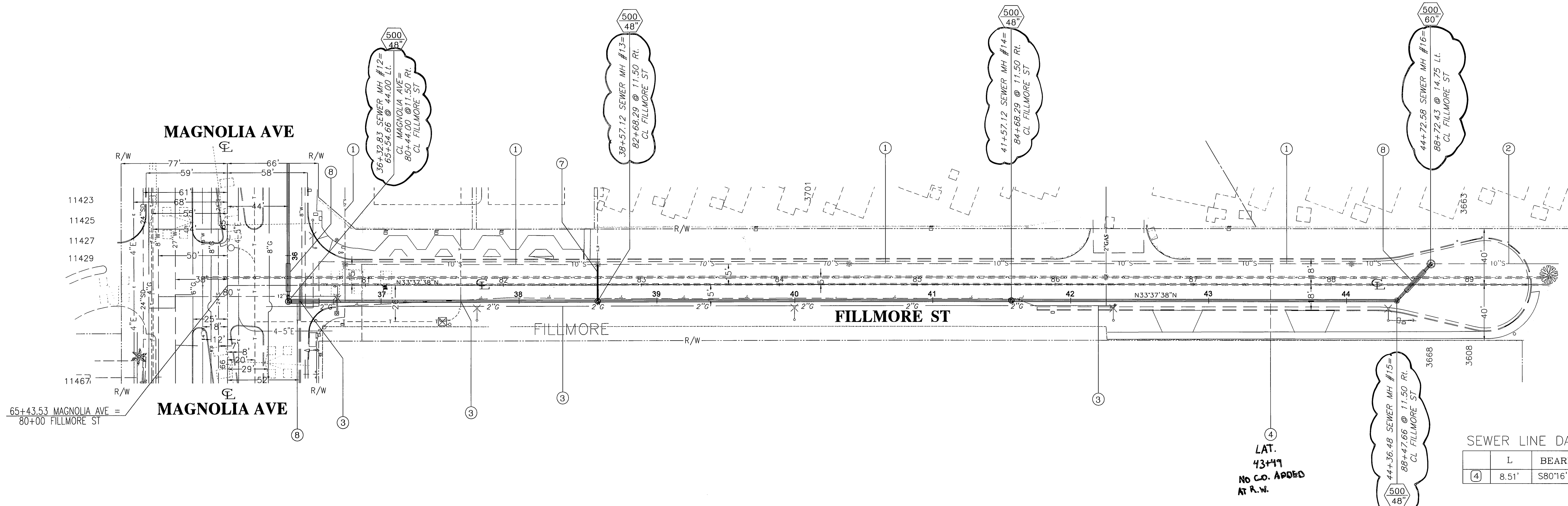
ACC. No. 9820823203-4403011X
 W.D. 0901141
S-2061
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'
 SHEET 5 OF 6

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- ⑧ SEE PVC ENCASING DETAIL ON SHEET 5B



SEWER LINE DATA

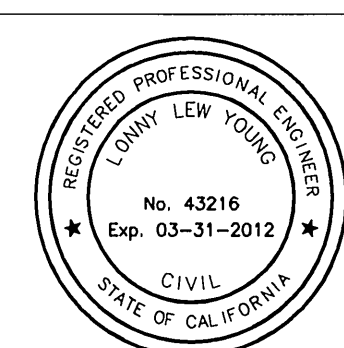
L	BEARING
④ 8.51'	S80°16'06"E

④
 LAT.
 43+47
 No C.O. APPROVD
 AT R/W.

BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV= 708.065

ENGINEER IN RESPONSIBLE CHARGE

 LONNA NEW YOUNG
 R.C.E. No. 3216 expires 03-31-2012
 DATE 09/20/2010



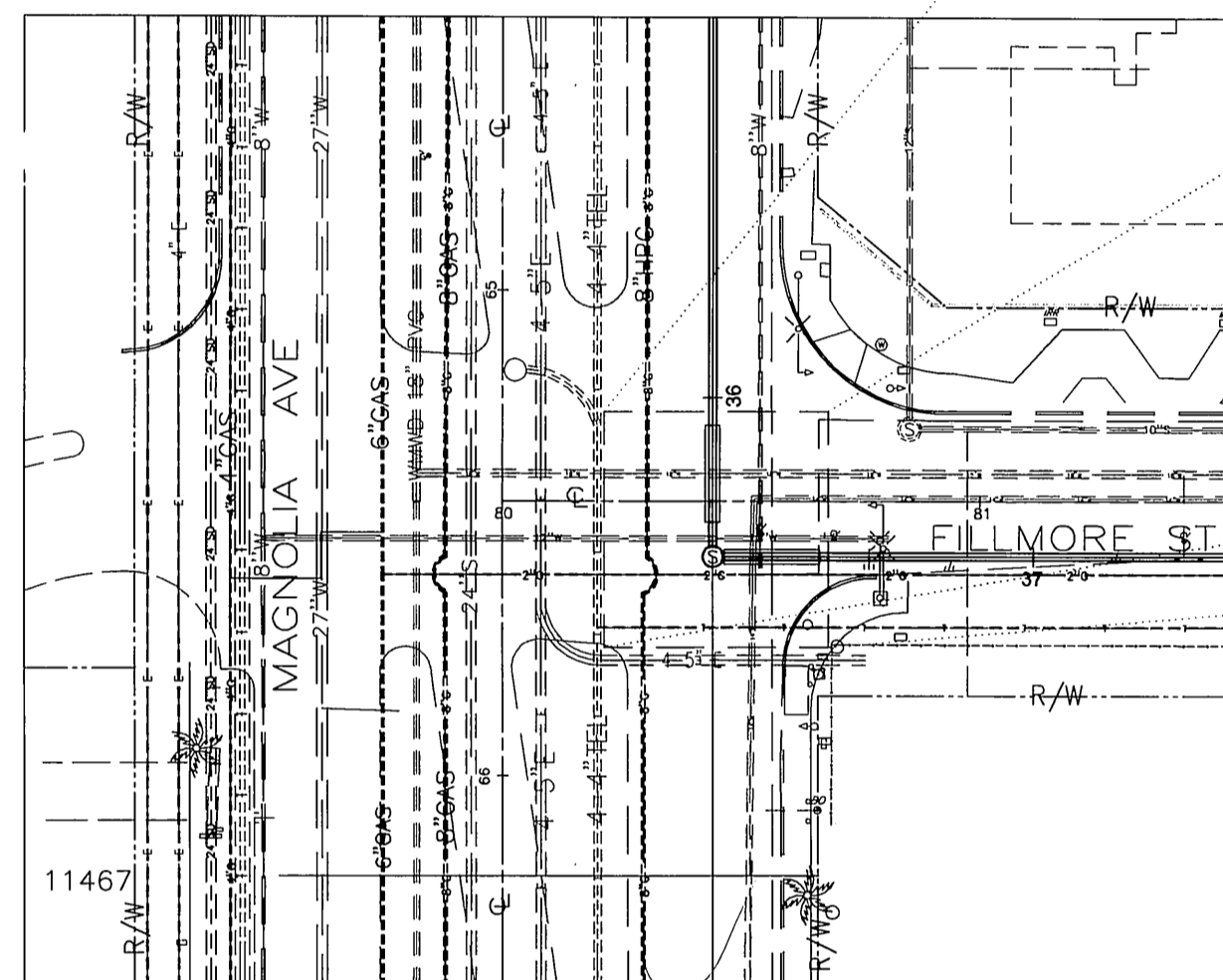
SHEET 5 SUPERSEDED BY SHEET 5A, ADD SHEET 5B
 ADDED NOTE 8

MARK	REVISIONS	APPR.	DATE

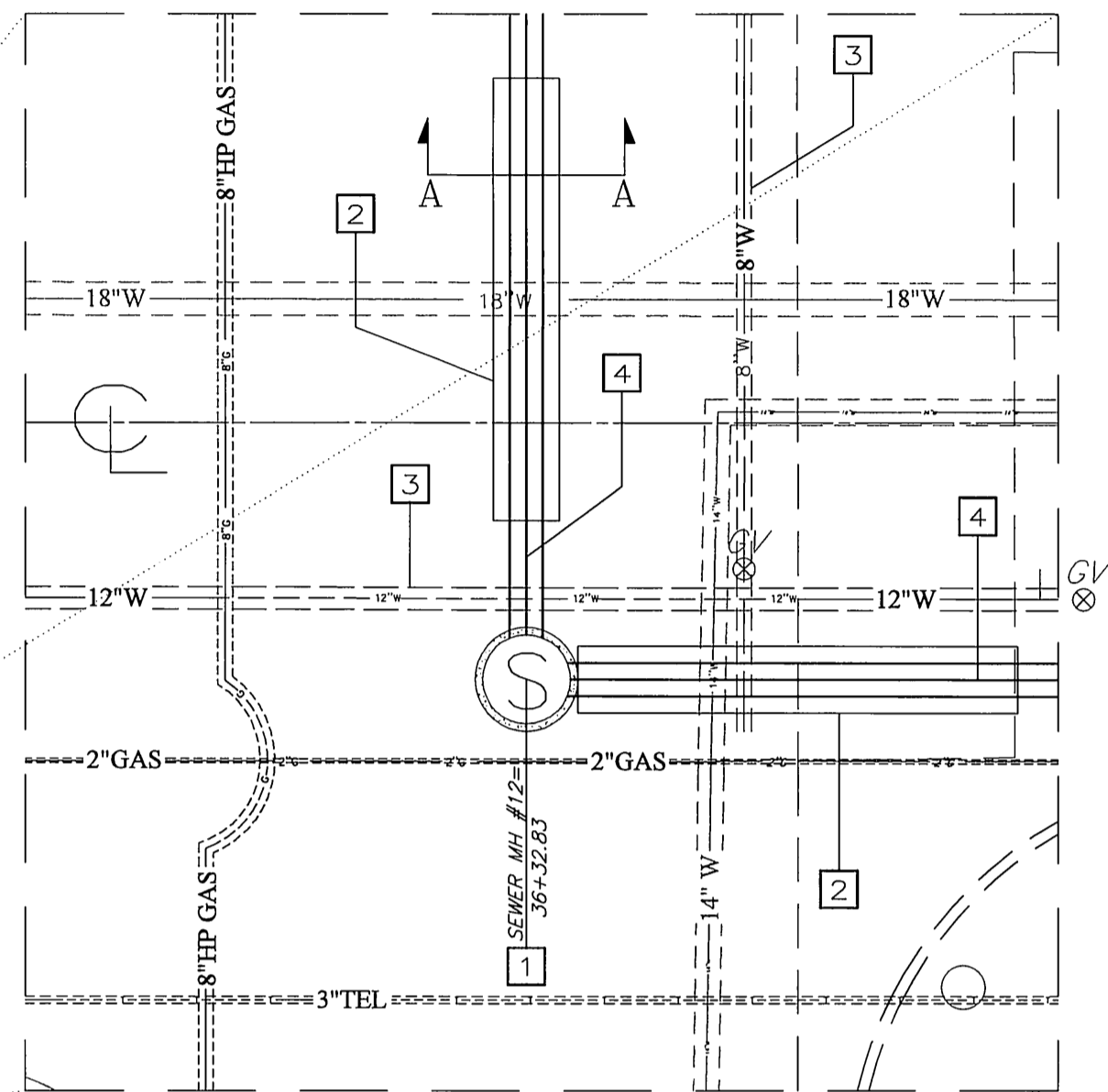
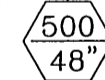
CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 PRINCIPAL ENGINEER
 INSPECTION: [Signature]
 SURVEYOR
 ENGINEERING MANAGER
 DATE: 9/21/10

MAGNOLIA-FILLMORE-GOLDEN SEWER
 FROM SR-91 TO COCHRAN AVE
S-2061
 ACC No. 9820823203-440301XX
 W.O. 0901147
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'
 SHEET 5A OF 6

ASBUILT

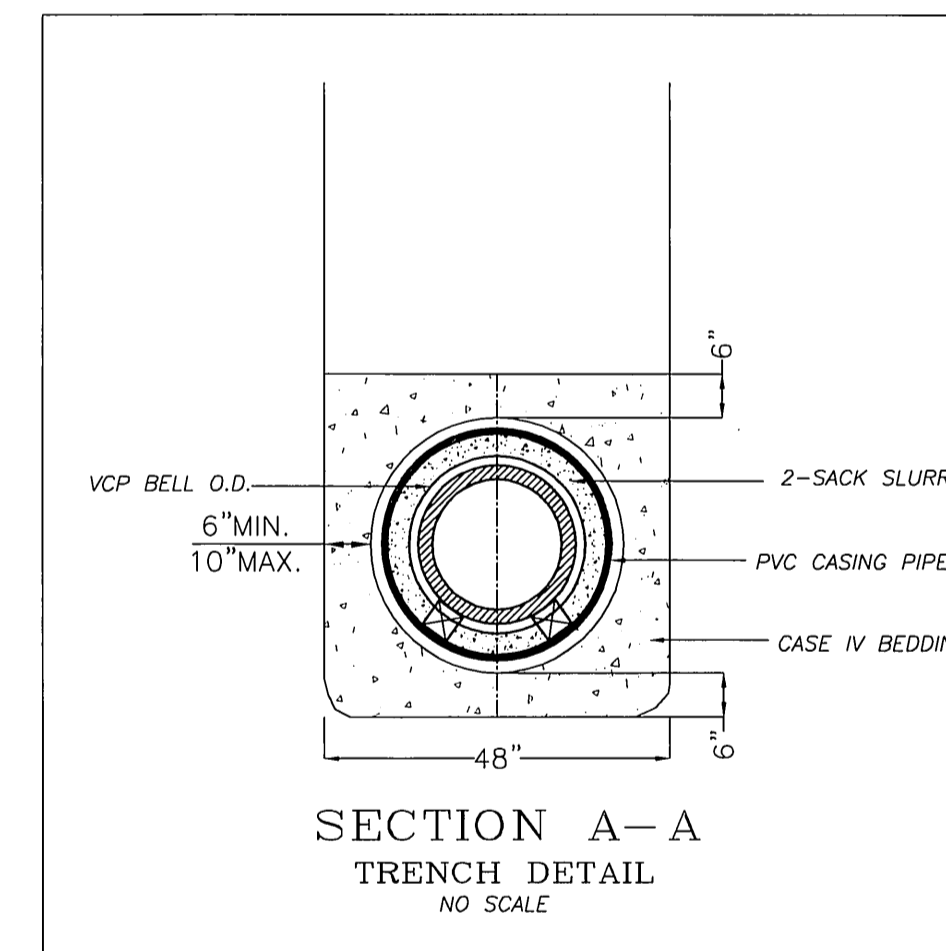
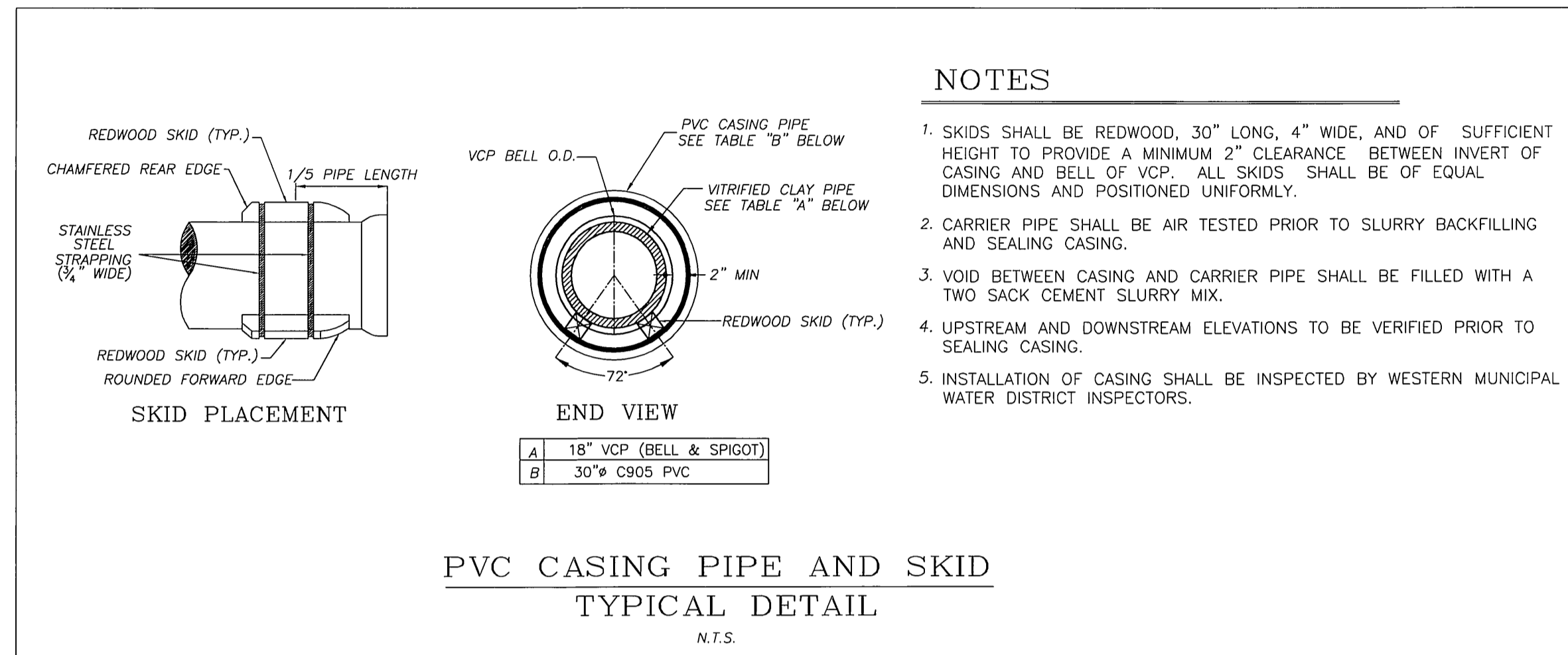


36+32.83 SEWER MH #12 =
 80'-5.66' @ 1.00% S.L.
 80'-4.00' @ 1.15% S.L.
 CL. FILLMORE ST



SPECIFIC CONSTRUCTION NOTES

- 1 MANHOLE No. 12 AT STATION 36+32.83 SHALL BE WATER-SEALED BY CHEMICAL GROUTING IN ACCORDANCE WITH ASTM F2414 OR BY USING AN EXTERNAL JOINT WRAP "RUBR-NEK RU116" AS MANUFACTURED BY HENRY OR CITY APPROVED EQUAL.
- 2 CONTRACTOR SHALL LOCATE 20-FOOT LENGTH OF PVC PIPE TO CENTER ON WWD PIPES OR AS DIRECTED BY THE ENGINEER.
- 3 WATER LINE TO BE RELOCATED BY CITY FORCES PRIOR TO CONSTRUCTION OF SEWER PIPE.
- 4 PROPOSED 18" VCP SEWER.



BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV-- 708.065



ENGINEER IN RESPONSIBLE CHARGE

Lowry P. Young
 LOWRY P. YOUNG
 R.C.E. No. 43216 expires 03-31-2012
 DATE 01/20/2010



SHEET 5 SUPERSEDED BY SHEET 5A. ADD SHEET 5B	
MARK	REVISIONS
APPR.	DATE
DESIGNED BY	MLAMPINS
DRAWN BY	MLAMPINS
CHECKED BY	

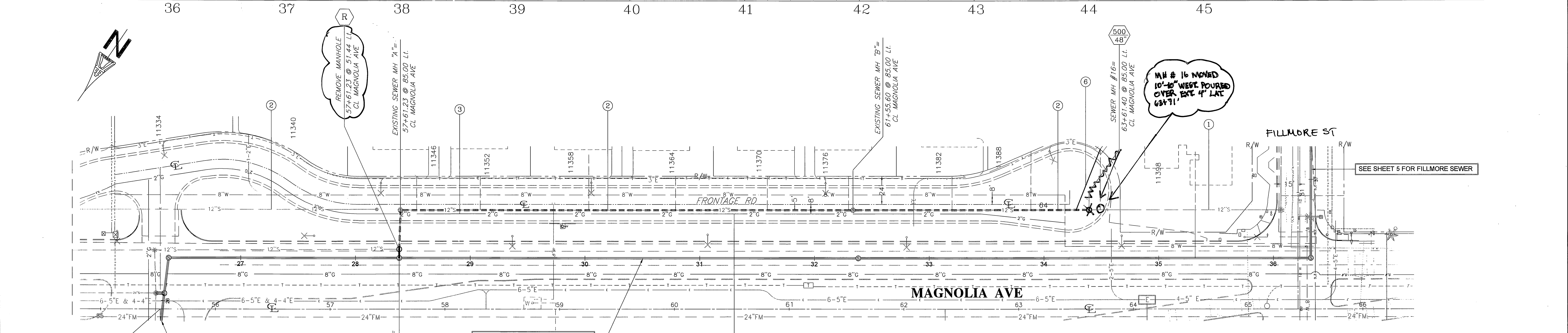
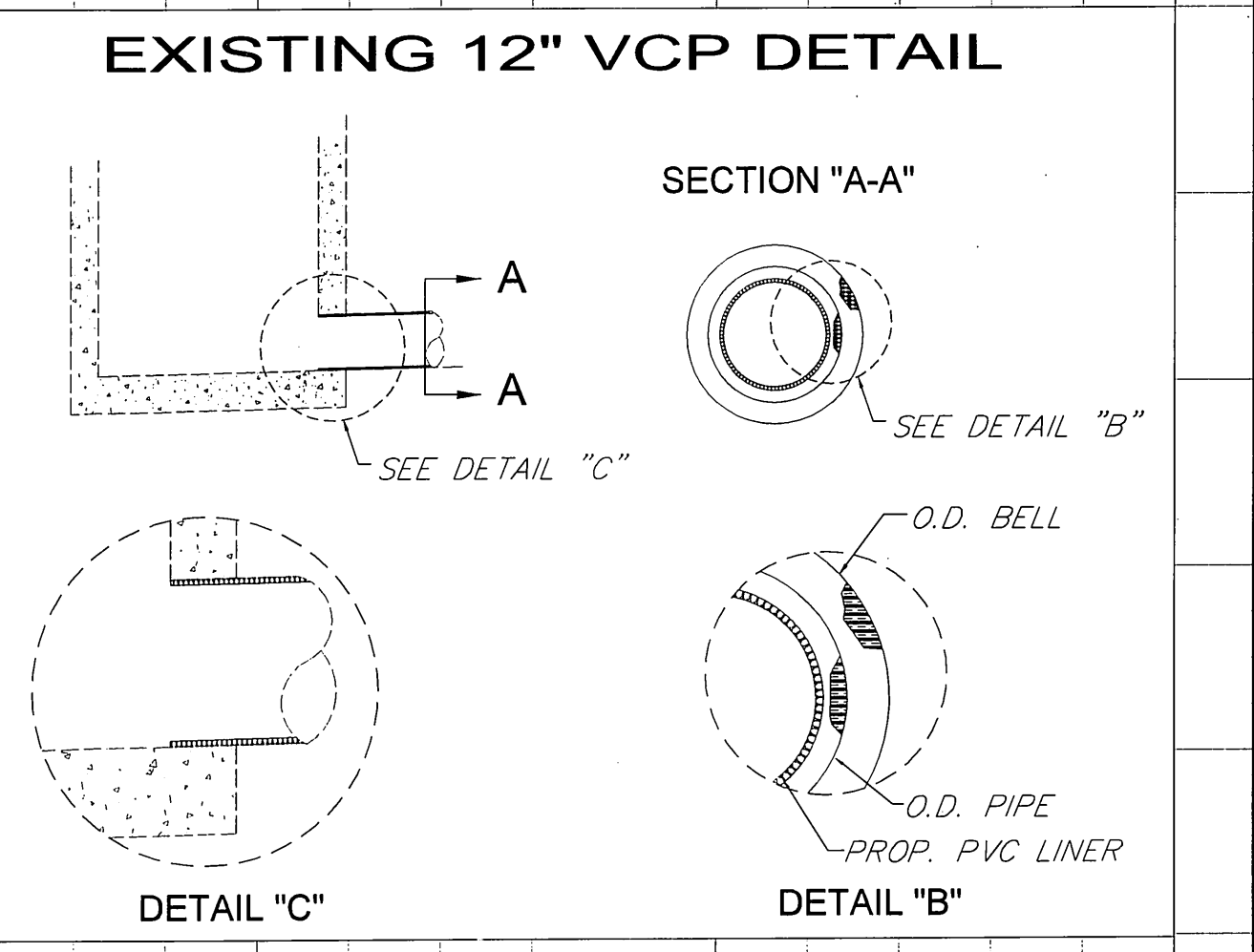
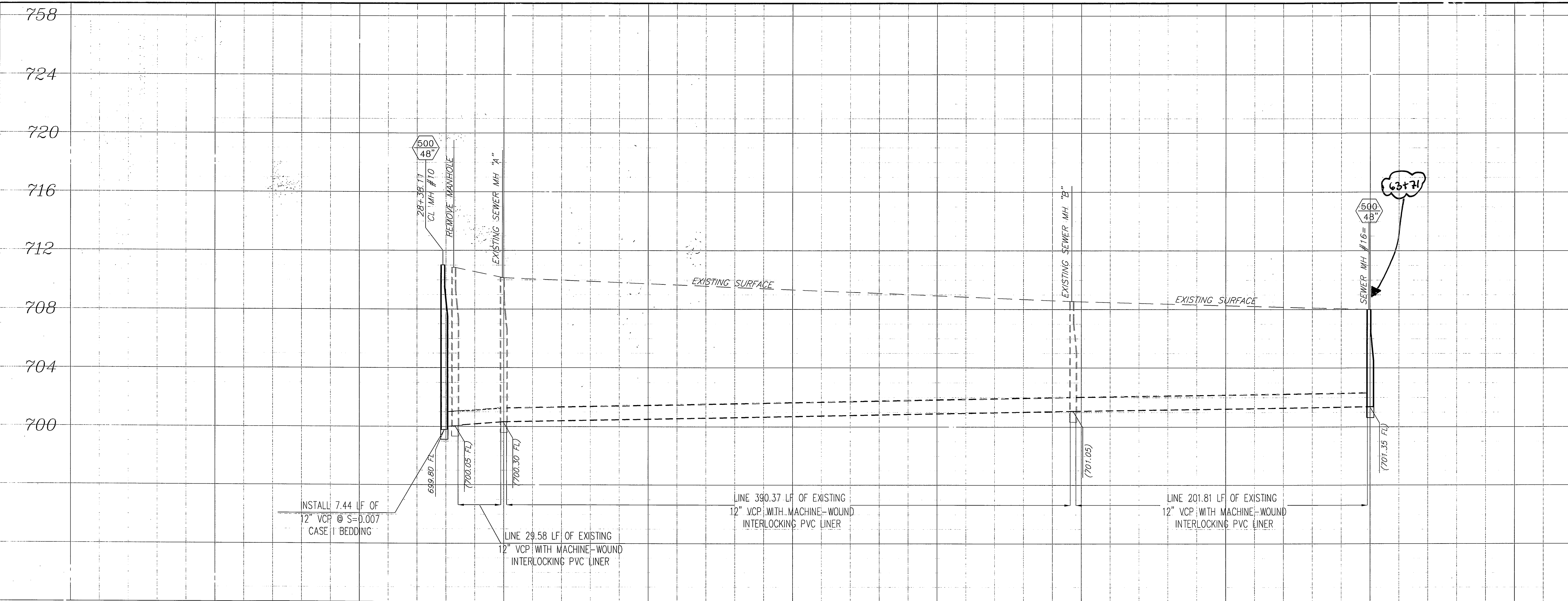
CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
INSPECTION		
SURVEYOR		
ENGINEERING MANAGER		
APPROVED BY	BY	DATE
		9/21/10

MAGNOLIA-FILLMORE-GOLDEN SEWER
 FROM SR-91 TO COCHRAN AVE
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACC. No. 9820823203-440301XX
 W.O. 0901141
S-2061
 SHEET 5B OF 6

ASBOLT

IMPORTANT NOTICE
 Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call:
 TOLL FREE
 CALL TOLL FREE
 48 HOURS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 1-800-227-2600

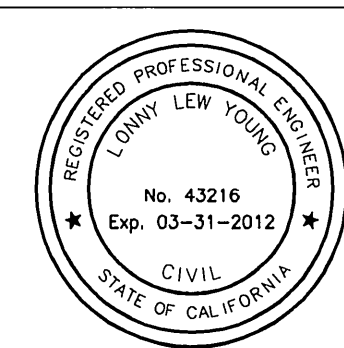


SPECIFIC CONSTRUCTION NOTES

- 1. 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 OR COVER SHEET, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- 2. REMOVE EXISTING MANHOLE AND CONNECT EXISTING MAIN TO PROPOSED MANHOLE
- 3. ABANDON EXISTING SEWER IN PLACE
- 4. EXISTING SEWER TO REMAIN IN SERVICE
- 5. REALIGN SERVICE LATERAL TO CONNECT TO EXISTING MAIN WITH A TWO FEET MINIMUM CLEARANCE FROM PROPOSED MANHOLE

BENCHMARK
 E2-K3: P.K. NAIL AND CITY ENGINEER TAG ON THE TOP OF THE SOUTHERLY MEDIAN CURB OF MAGNOLIA AVENUE, 45 FEET EASTERLY OF THE CENTERLINE OF FILLMORE STREET
 ELEV- 708.065

ENGINEER IN RESPONSIBLE CHARGE
 LOUIS L. YOUNG
 R.C.E. No. 22219 expires 03-31-2012
 DATE 05/12/2010



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 INSPECTOR: [Signature]
 SURVEYOR: [Signature]
 ENGINEERING MANAGER: [Signature]
 DATE: 5/10/10

MAGNOLIA-FILLMORE-GOLDEN SEWER
 FROM SR-91 TO COCHRAN AVE

ACC. No. 9820523203-440301XX
 W.G. 0901140
S-2061
 SHEET 6 OF 6

HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'