

# SEWER IMPROVEMENT PLANS FOR: TRACT No. 34236

## GENERAL NOTES

- NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
- CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
- LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
- NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
- A PLUG SHALL BE INSTALLED AND WILL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
- PIPES JOINTS FOR VITRIFIED CLAY PIPE SHALL BE TYPE "G" AS SPECIFIED IN SECTION 208-2.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS. IF PLASTIC PIPE IS ALLOWED AS AN ALTERNATIVE, ALL PIPE JOINTS SHALL BE GASKETED. CEMENTED JOINTS SHALL NOT BE ALLOWED.
- THE DEVELOPER IS RESPONSIBLE FOR PERFORMING A VIDEO INSPECTION OF THE NEW SEWER MAIN PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE VIDEO INSPECTION MUST BE PERFORMED IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR. A RECORDING OF THE VIDEO INSPECTION MUST BE SUBMITTED TO THE CITY FOR REVIEW AND ACCEPTANCE.

## CONSTRUCTION NOTES AND QUANTITY ESTIMATE

THE QUANTITIES SHOWN BELOW ARE FOR BONDING INFORMATION ONLY. THE CONTRACTOR IS TO CONSTRUCT PROJECT PER THESE PLANS AND SUBMIT CONSTRUCTION BID BASED ON THEIR OWN QUANTITY "TAKE-OFF".

① CONSTRUCT 8" P.V.C. SEWER WITH CASE 1 *BEDDING PER CITY STD. DWG. NO. 452	950 LF
② CONSTRUCT MANHOLE PER CITY STD. DWG. 500	5 EA
③ CONSTRUCT 4" P.V.C. SEWER LATERAL (CASE 1 BEDDING PER CITY STD. DWG. NO. 452) WITH C.O. AT R/W PER CITY STD. DWG. 562.	298 LF 7 EA
④ INSTALL SEWER BACKFLOW PREVENTER	2 EA

\* GRANULAR MATERIAL SHALL NOT BE SAND NOR NATIVE SOIL WITH SAND EQUIVALENT.

## LEGEND

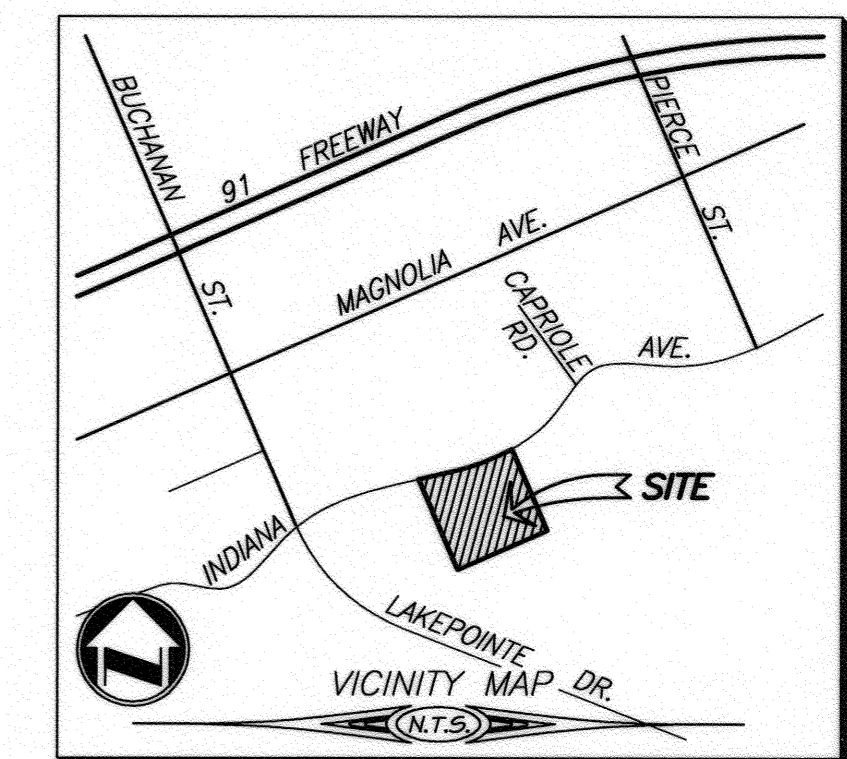
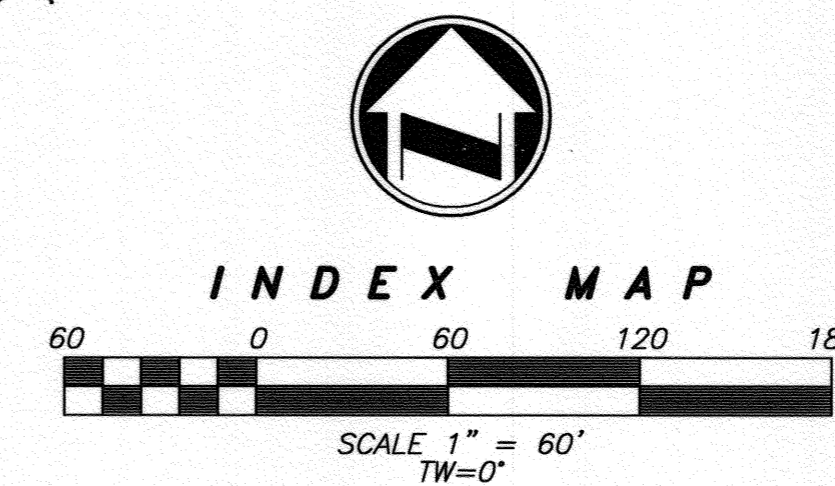
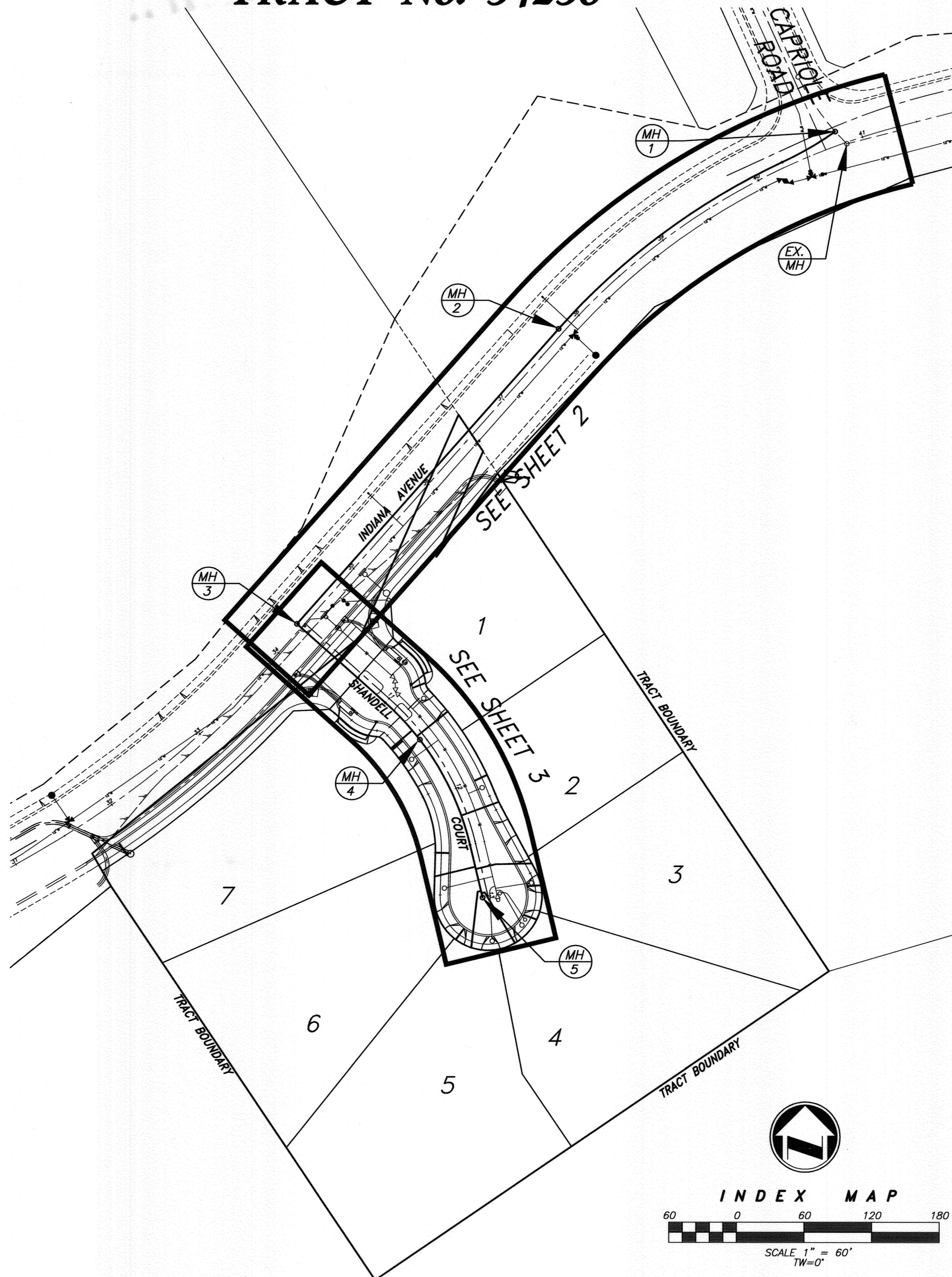
C ..... CENTERLINE  
R/W ..... RIGHT OF WAY  
MH ..... MANHOLE

## SOILS ENGINEER

**SOIL EXPLORATION COMPANY, INC.**  
7535 JURUPA AVENUE, UNIT C  
RIVERSIDE, CALIFORNIA 92504  
TEL: 951 688-7200  
FAX: 951 688-7100

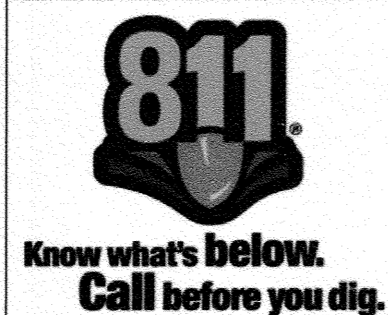
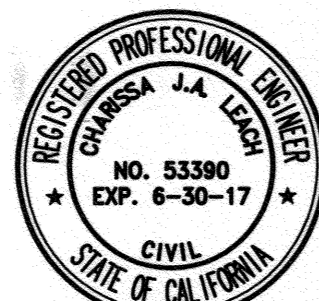
## REFERENCE DRAWINGS

GRADING: PW14-0085  
STREET IMPROVEMENT: R-4322  
STORM DRAIN: R-4322  
WATER IMPROVEMENTS: D5-1505227



RIVERSIDE PUBLIC UTILITIES - WATER

REVIEWED FOR CONFLICTS BY: *[Signature]*  
DATE: 11/15/15



CITY OF RIVERSIDE BUSINESS TAX ACCT. #058833 EXP. 1/1/16

PLANS PREPARED BY:  
**adkan ENGINEERS**  
Civil Engineering Surveying Planning  
6820 Airport Drive, Riverside, CA 92504  
Tel: (951) 688-0241 Fax: (951) 688-0599  
Under the Supervision of: *[Signature]* 10/6/15  
Chastene-J.A. Leach, R.C.E. 53390 Exp. 06.30.17 1 Date

BENCHMARK: E2-R3  
CHISELED SQUARE ON THE SOUTHEAST CORNER OF BUCHANAN WELL NO. 1 AT THE NORTHWEST CORNER OF MAGNOLIA AVENUE AND BUCHANAN STREET, ADJUSTED AND LEVELED: MAY 1997.  
DATUM: (NGVD 29)  
ELEVATION: 686.946

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: Rick DRAWN BY: Rick CHECKED BY: C-

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**

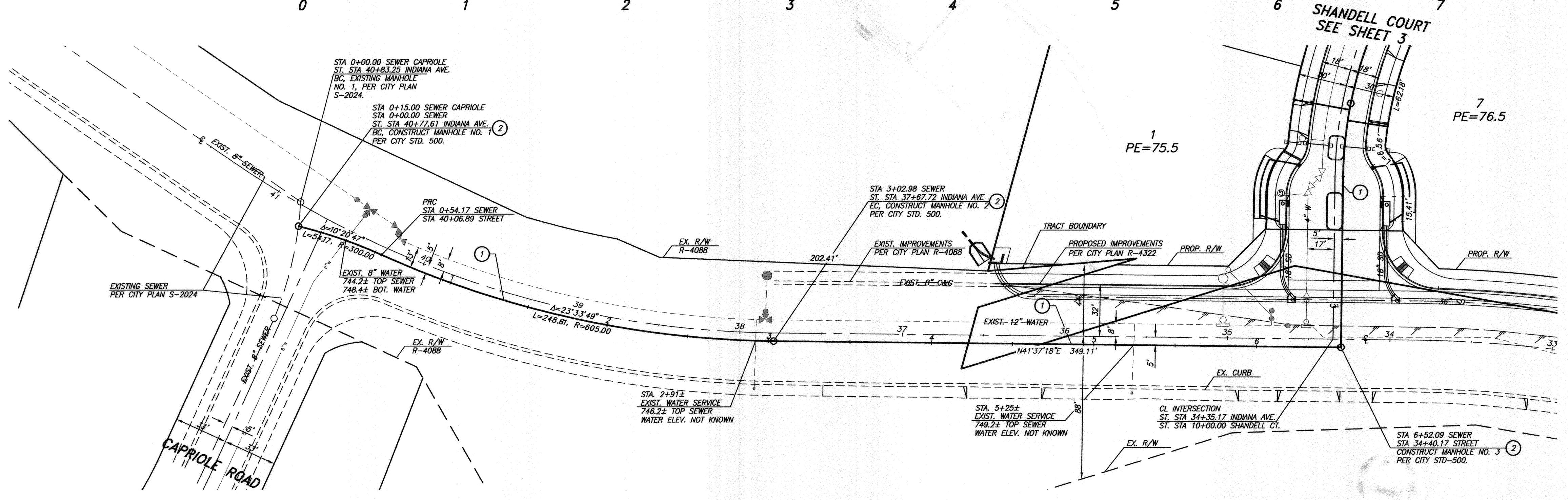
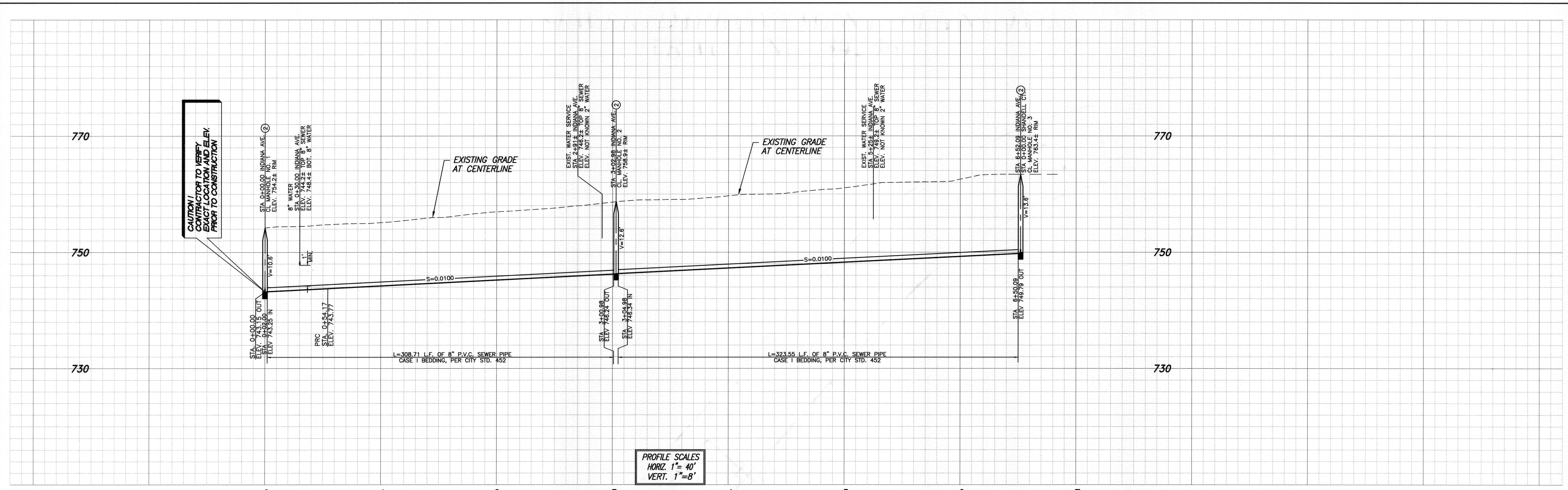
APPROVED BY:	DATE:	BY:	APPROVED BY:
ENGINEERING MANAGER	10/15/15	TR	<i>[Signature]</i>
CAPITAL PROJECTS	10/15/15	TR	CITY ENGINEER / P.W. DIRECTOR

DATE: 12/09/2015

SEWER IMPROVEMENT PLAN  
**TRACT 34236**  
INDEX MAP

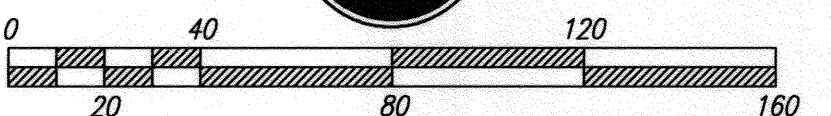
HORIZ. SCALE: 1" = 60' VERT. SCALE: N/A

PW14-0087  
ACCOUNT NO.  
**S-2125**  
SHEET 1 OF 3  
J.N. 8518



- CONSTRUCTION NOTES**
- ① CONSTRUCT 8" P.V.C. SEWER WITH CASE 1 \*BEDDING PER CITY STD. DWD. NO. 452.
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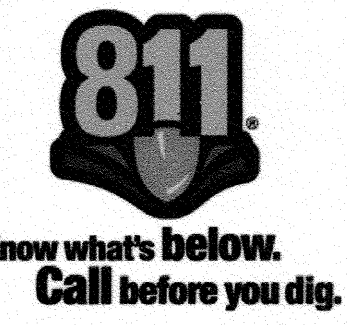
**INDIANA AVENUE**



CITY OF RIVERSIDE BUSINESS TAX ACCT.#058833 EXP.1/1/16

RIVERSIDE PUBLIC UTILITIES - WATER

REVIEWED FOR CONFLICTS BY: *[Signature]* DATE: 11/5/2015



**adkan ENGINEERS**  
 Civil Engineering Surveying Planning  
 6820 Airport Drive, Riverside, CA 92504  
 Tel:(951) 698-0247 Fax:(951) 688-0599  
 Under the Supervision of: *[Signature]* 10/6/15  
 Charissa J.A. Leach, R.C.E. 53390 Exp. 06.30.17

BENCHMARK: E2-R3  
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MARK	REVISIONS	APPR.	DATE

DESIGNED BY: Rick DRAWN BY: Rick CHECKED BY: Mleh

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**

APPROVED BY: *[Signature]* DATE: 11/5/2015  
 ENGINEERING MANAGER  
 CAPITAL PROJECTS

APPROVED BY: *[Signature]* DATE: 12/02/2015  
 CITY ENGINEER / P.W. DIRECTOR

SEWER IMPROVEMENT PLAN  
**TRACT 34236**  
 INDIANA AVENUE

HORIZ. SCALE: VERT. SCALE:

PW14-0087  
 ACCOUNT NO.  
**S-2125**  
 SHEET 2 OF 3  
 J.N. 8518

790

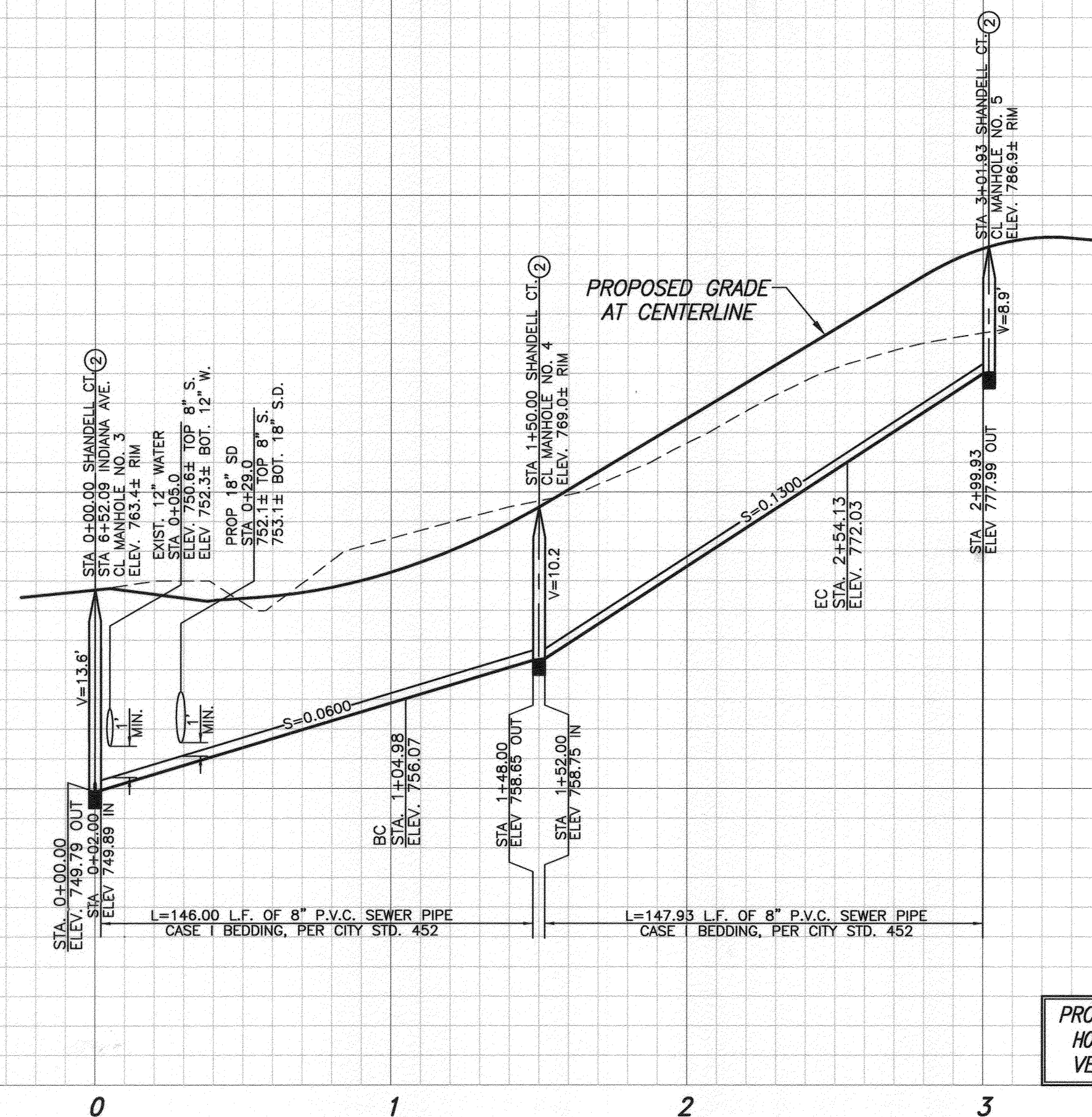
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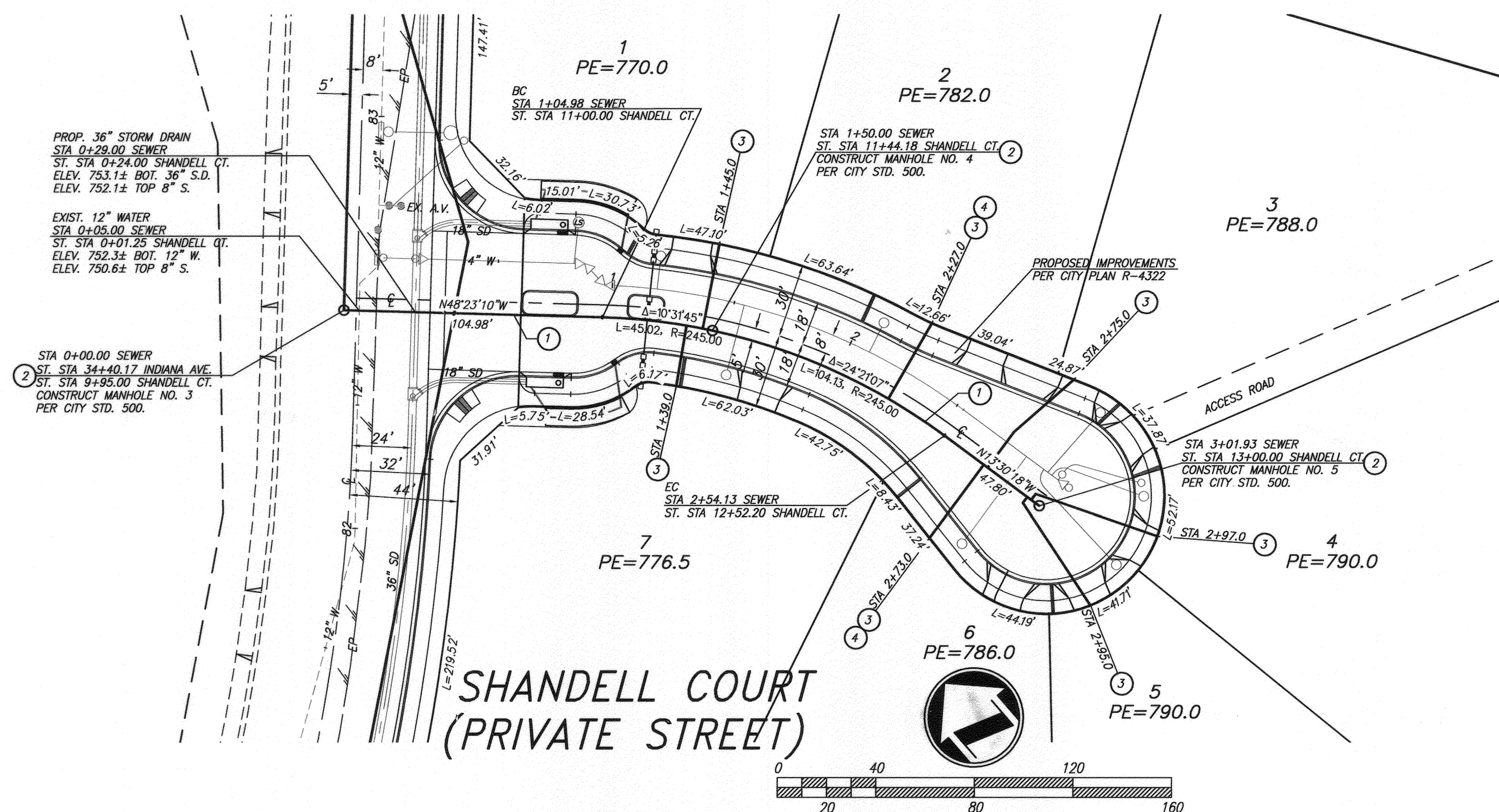
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INDIANA AVE.  
SEE SHEET 2



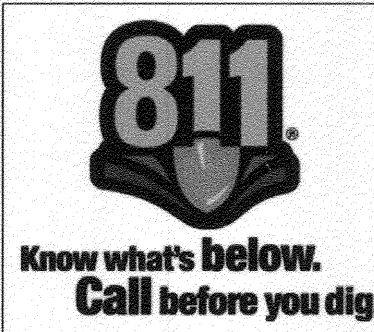
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RIVERSIDE PUBLIC UTILITIES - WATER

REVIEWED FOR CONFLICTS BY: *CK*

DATE: 11/15/2015



PLANS PREPARED BY:  
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Civil Engineering Surveying Planning  
6820 Airport Drive, Riverside, CA 92504  
Tel: (951) 688-0211 Fax: (951) 688-0599

Under the Supervision of  
*Charles A. Leach, R.C.E. 53390 Exp. 06.30.17*

BENCHMARK: E2-R3  
CHISELED SQUARE ON THE SOUTHEAST CORNER OF BUCHANAN WELL NO. 1 AT THE NORTHWEST CORNER OF MAGNOLIA AVENUE AND BUCHANAN STREET, ADJUSTED AND LEVELED; MAY 1997.  
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MARK	REVISIONS	APPR.	DATE

DESIGNED BY: Rick DRAWN BY: Rick CHECKED BY: MDeh

**CITY OF RIVERSIDE**  
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* DATE: 11/16/15  
ENGINEERING MANAGER  
CAPITAL PROJECTS

APPROVED BY: *[Signature]*  
CITY ENGINEER / P.W. DIRECTOR

DATE: 11/16/15

SEWER IMPROVEMENT PLAN  
**TRACT 34236**  
SHANDELL COURT

HORIZ. SCALE: VERT. SCALE:

PW14-0087  
ACCOUNT NO.  
**S-2125**  
SHEET 3 OF 3  
J.N. 8518