REVIEWED & APPROVED
BY DIV. OF PUBLIC WORKS — DATE 11-03-96

P.C.10822

BASIS OF BEARINGS

THE ℄ OF ELIZABETH LAKE ROAD BETWEEN COUNTY MONUMENTED P.I. #225 AND P.I. # 209 A, PER L.A. CO. ROAD DEPT. NOTES AND RECORD ALIGNMENT AS SOUTH 63°22'25" EAST.

BENCH MARK

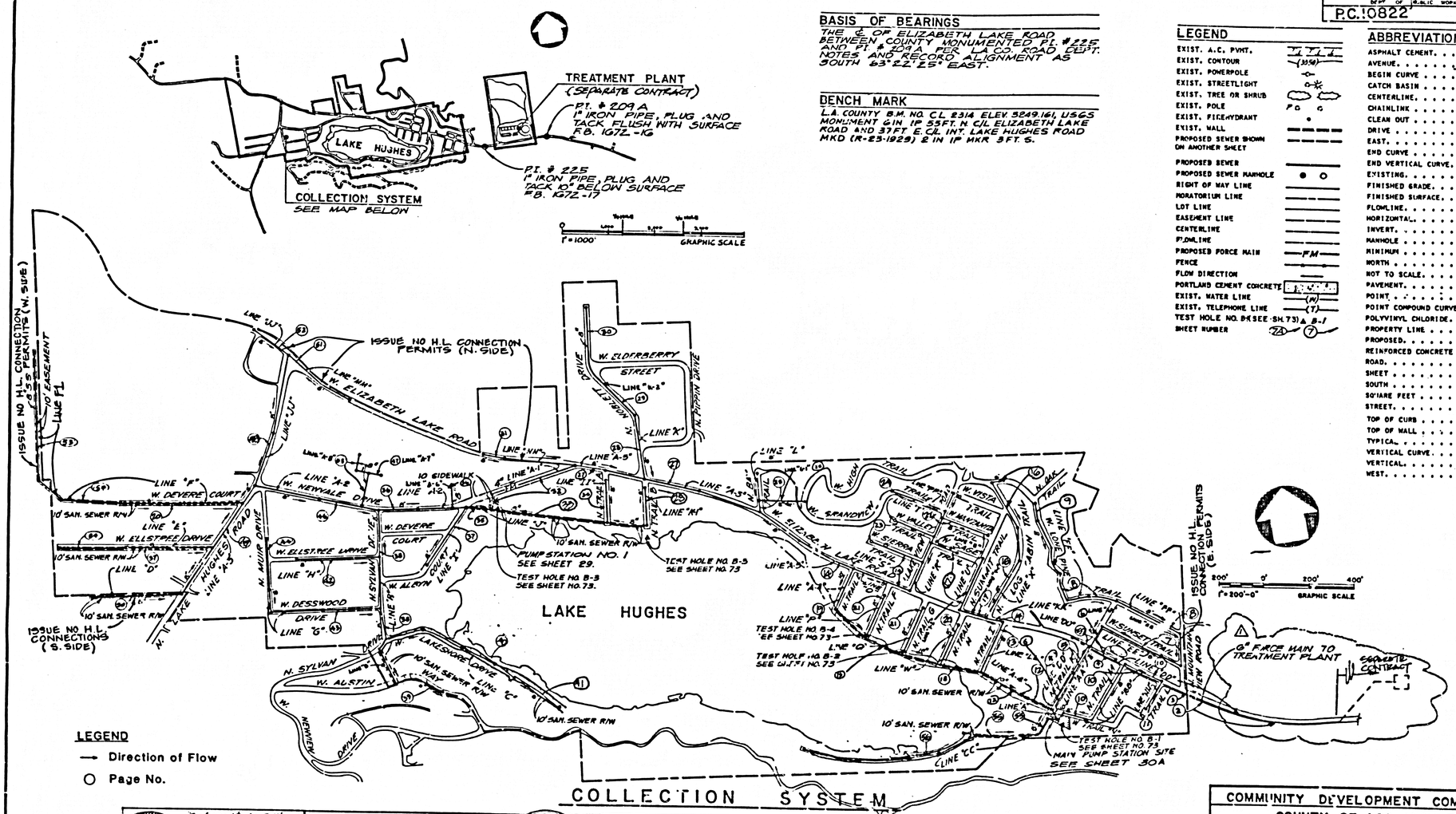
L.A. COUNTY B.M. NO. CL 2314 ELEV. 3249.161, USGS MONUMENT 6 IN. IP 55FT. N ℄/L ELIZABETH LAKE ROAD AND 37FT. E. ℄/L INT. LAKE HUGHES ROAD MKD (R-23-1929) 2 IN IP MKR 3FT. S.

LEGEND

- EXIST. A.C. PVMT.
- EXIST. CONTOUR (3154)
- EXIST. POWERPOLE
- EXIST. STREETLIGHT
- EXIST. TREE OR SHRUB
- EXIST. POLE
- EXIST. FIRE-HYDRANT
- EXIST. WALL
- PROPOSED SEWER SHOWN ON ANOTHER SHEET
- PROPOSED SEWER
- PROPOSED SEWER MANHOLE
- RIGHT OF WAY LINE
- MORATORIUM LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- P.DWLINE
- PROPOSED FORCE MAIN — FM
- FENCE
- FLOW DIRECTION
- PORTLAND CEMENT CONCRETE
- EXIST. WATER LINE — (W)
- EXIST. TELEPHONE LINE — (T)
- TEST HOLE NO. B-1 (SEE SH. 73) △ B-1
- SHEET NUMBER 2A / 7

ABBREVIATIONS

ASPHALT CEMENT	AC
AVENUE	AVE
BEGIN CURVE	BC
CATCH BASIN	CB
CENTERLINE	℄
CHAINLINK	CL
CLEAN OUT	CO
DRIVE	DR
EAST	E
END CURVE	EC
END VERTICAL CURVE	EVC
EXISTING	EX, EXIST.
FINISHED GRADE	FG
FINISHED SURFACE	FS
FLOWLINE	FL
HORIZONTAL	HORZ
INVERT	INV
MANHOLE	MH
MINIMUM	MIN
NORTH	N
NOT TO SCALE	NTS
PAVEMENT	PVMT
POINT	PT
POINT COMPOUND CURVE	PCC
POLYVINYL CHLORIDE	PVC
PROPERTY LINE	℄
PROPOSED	PROP
REINFORCED CONCRETE PIPE	RCP
ROAD	RD
SHEET	SH, SHT
SOUTH	S
SQUARE FEET	SQ FT
STREET	ST
TOP OF CURB	TC
TOP OF WALL	TW
TYPICAL	TYP
VERTICAL CURVE	VC
VERTICAL	VERT
WEST	W



Conformed to As-Built July 1998, from red marked field prints furnished by City of La Canada by: KOEES & Associates 1080 San Gabriel Blvd Rosemead, CA 91770 (818) 307-9900

FOR: COMMUNITY DEVELOPMENT COMMISSION OF THE COUNTY OF LOS ANGELES

PREPARED BY: JAYKAY ENGINEERS, Inc. 10701 LOS ALAMITOS BLVD # 200 LOS ALAMITOS, CALIFORNIA 90720 (213) 596-2755

REVISIONS

△ ADDENDUM NO. 3 REVISED LEGEND 9-17-96

COMMUNITY DEVELOPMENT COMMISSION
COUNTY OF LOS ANGELES

LAKE HUGHES COMMUNITY WASTEWATER FACILITY

KEY MAP

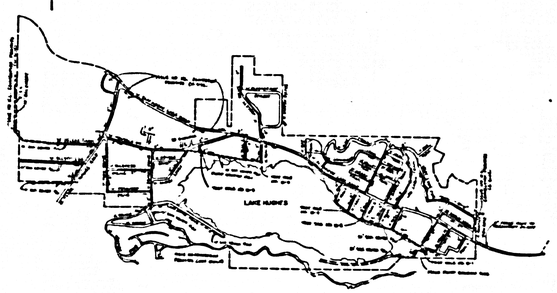
TR. C-06-1821-510 SHT 2A OF 97 SHTS

1/29

B.M. CL 23'4 ELEV 3249.11

USGS MON 6 IN IP 55 FT N C/L ELIZABETH LAKE RD AND 37 FT E C/L INT LAKE HUGHES RD MKD IR-23-1929N 2 IN IP MKR 3 FT S.

LANCASTER QUAD. 19 NL



INDEX MAP
SCALE: 1" = 600'

P.C. 10822
LAKE HUGHES COMMUNITY
WASTEWATER FACILITY

LEGEND

—— DIRECTION OF FLOW

(X) Y/Y X = SHEET NO.
Y = LINE NO./PUMP STA. NO.

NOTE:

For location of main lines & page references see "Key Map" on page 2A

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE M.S.L. 1929 SEA LEVEL DATUM OF 1929
2. NO DEVIATIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS
3. NO REPRESENTATION OF THE DEPARTMENT OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY POR. ION OF THE WORK
4. SPACES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURB, CENTERLINE, SIDEWALK, OR STREETS, OR CENTERLINE OF ALLEYS ARE SHOWN BY CHECKED PROFILES. AT ALL POINTS TO BE THE SAME AS THOSE SHOWN ON THE GRADE SHALL BE ESTAB. ISHED SO AS TO CONFORM TO A STRAIGHT LINE GRADE BETWEEN SAID DESIGNATED POINTS
5. THE JOB ENGINEER SHALL PROTECT THE DEPARTMENT OF PUBLIC WORKS ON THE GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THE SAME. THE INSPECTOR OF WORK WITH STATIONING PLANS, GRADES ALL HOUSE LATERAL STAKES SHALL BE CONSTRUCTED AS A PRACTICAL MATTER AT RIGHT ANGLES FROM THE SEWER AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CONNECTIONS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PERMITTEE ENGINEER
6. THE PERMITTEE ENGINEER SHALL PROVIDE THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB EVERY TEN FEET FOR EACH HOUSE LATERAL ON THE GRADE SHEET
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS. PERMIT OFFICE NO 5, AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS, 900 S. FREMONT AVE., ALHAMBRA, CALIFORNIA 91803 -- 8TH FLOOR. TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS
8. IF WORK IS TO BE DONE ON A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PHASES
10. REFER TO SECTION 7.10.1.1 OF THE STANDARD SPECIFICATION THIS REGARD HIS SAFETY ORDERS
11. PRIOR TO THE ISSUANCE OF THE FIG. NAL SEWER CONSTRUCTION PERMIT THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPARTMENT OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS, A PERMIT FOR ENCAMPMENTS AND TRENCHES FROM THE STATE OF CALIF. ORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKER'S COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 900 S. FREMONT AVE., ALHAMBRA, CALIFORNIA 91803 -- 8TH FLOOR. WHICH AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF INSURANCE

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1984 EDITION AS THE 1985 SUPPLEMENTS AND DEPARTMENT OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPTEMBER 21, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DEP. TMENT OF PUBLIC WORKS
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE (818) 458-3125 AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT
3. HOUSE LATERALS TO BE CONSTRUCTED WITH WYES AT PROPERTY LINE 3 FEET BELOW CURB GRADE EXCEPT AS NOTED
4. WYE OR TEE BRANCH - 6 MAY BE USED FOR CONNECTIONS TO SINGLE FAMILY DWELLINGS AS NOTED
5. ALL STRUCTURES SHALL BE EITHER BRICK SEWER MANHOLES PER S-2 OR PRECAST CONCRETE SEWER MANHOLES PER S-30, EXCEPT AS NOTED
6. PROVIDE STUBS ON THE PROPERTY LINE ON PROPERTY LINES PROJECTED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE
7. MANHOLE TOPS IN IMPROVED RIGHT OF WAY TO BE LEVEL WITH FINISHED GRADE. AS MANHOLE TOPS IN UNIMPROVED RIGHT OF WAY TO BE 300 INCHES ABOVE FINISHED GRADE
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "B" OR "D" PER STANDARD SPECIFICATIONS SECTION 200-2
9. IF A MANHOLE IS LOCATED WITHIN THIRTEEN FEET OF THE SIDE LINE THE SEWER SHALL BE ENCASED PER S-20, CASE I = TWO FEET ON EACH SIDE FROM THE RIGHT OF WAY REFERENCE
10. IF BUILDING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A SEWER OR HOUSE LATERAL, V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-20, CASE I OR SHALL BE OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS
11. ALL JOINTS BETWEEN C.I.P. IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT TYPE "C" OR "D" FOR BUSHINGS IF NECESSARY PER STANDARD SPECIFICATIONS, SECTION 200-2
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 200-1.6 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS
13. REPAIRS ALL TRENCHES WITHIN PAVED AREAS TO MEET LOS ANGELES COUNTY PUBLIC WORKS OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH SECTION 7.10.1.1 OF THE STANDARD SPECIFICATIONS
14. FULL COMPLIANCE WITH SECTION 300-1.3.4 OF THE STANDARD SPECIFICATIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. COMPACTION OF BACKFILL, COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED TESTING FIRM TO THE LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE
15. SPECIAL BACKFILL IN SUBGRADE CONSTRUCTION IN BACKFILL TRENCH AND REPLACE OTHER EARTH BACKFILL TO ACHIEVE THE SUBGRADE OR FINISH GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THE DEVELOPMENT BY THE LAND DEVELOPMENT DIVISION. BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. D 1557 METHOD OF TEST 2000 1.17 AS MODIFIED. ACCEPTABLE COMPACTION OF SUCH CONSTRUCTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION PUBLIC WORKS DEPARTMENT

PROFILE, ALIGNMENT AND GRADE OF

PAGE 1

SANITARY SEWERS

TO BE CONSTRUCTED IN

LAKE HUGHES COMMUNITY WASTEWATER FACILITY
PRIVATE CONTRACT NO. 10822

30 SHEETS; 57 PAGES

53572

SCALE: VERT. 1" = 4 HORIZ. 1" = 40 , 198

PREPARED IN THE OFFICES OF
JAYKIM ENGINEERS, INC.
10701 LOS ALAMITOS BLVD. # 200, LOS ALAMITOS, CA. 90720

BY: GEORGE PAUL SEW

REG. C.E. No. 15830 EXP. DATE: 9-30-89

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE DEPARTMENT OF PUBLIC WORKS SHALL APPLY TO THE CONSTRUCTION OF THIS PROJECT

LEGEND	
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-1
BRICK MANHOLE	S-2
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLE AND ENCASEMENT	S-22
WYE OR TEE SUPPORT	S-23
ALLOWABLE TRENCH WIDTHS	S-25
LOCKING MANHOLE FRAME AND COVER	S-30
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-35

COUNTY OF LOS ANGELES, CALIFORNIA

THOMAS A. TICKEMANSON
DIRECTOR OF PUBLIC WORKS

CHARLES W. CARRY
CHIEF ENGINEER

APPROVED _____ (DATE)

CHECKED _____ (DATE)

RRS C.E. NO. _____

_____ BLDG. DIST. _____

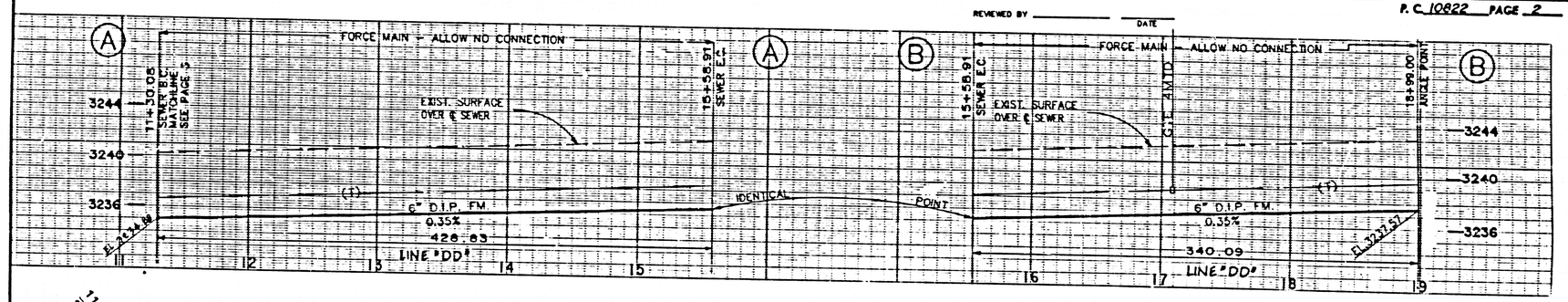
CO. SAN. DIST. NO. _____

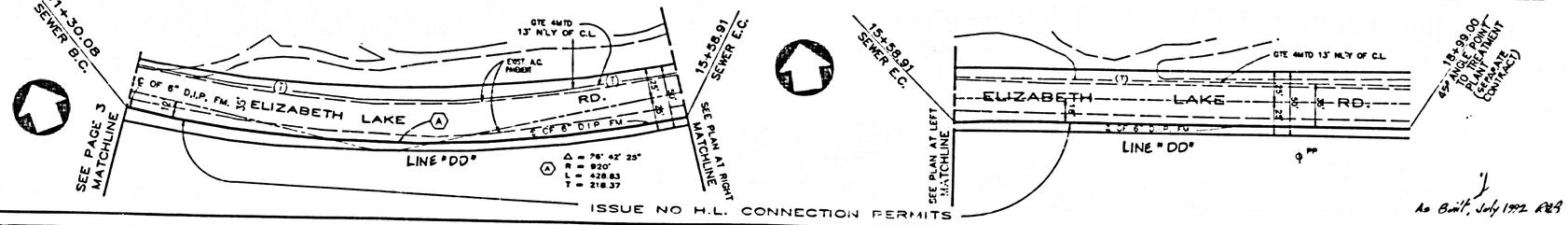
APPROVED _____ (OFFICE ENGINEER)

As Built July 1992 RBS

REVIEWED BY _____ DATE _____

P. C. 10822 PAGE 2





ISSUE NO H.L. CONNECTION PERMITS

As Built, July 1992 RBS

SEWER CONN. 1

P.C. 10822

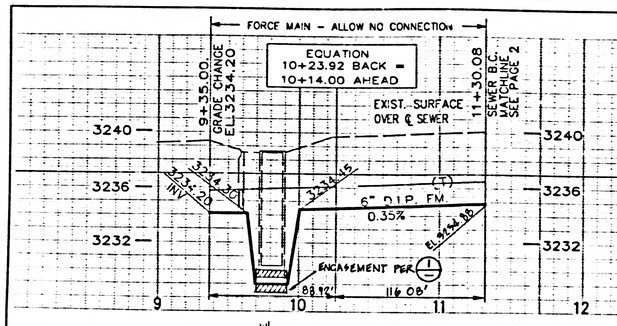
LAKE HUGHES WASTEWATER TREATMENT FACILITY

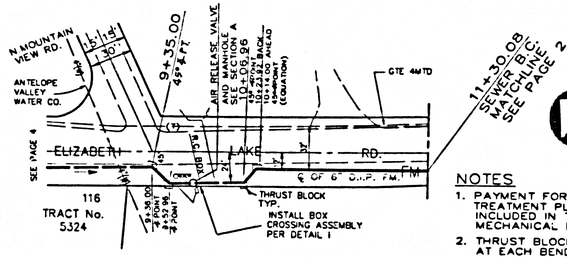
032-005	99
LAKE HUGHES	CDC

2/29

P.C. 10822 (3)

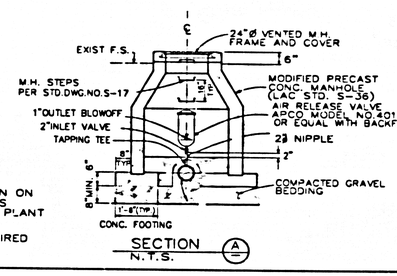
REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 3



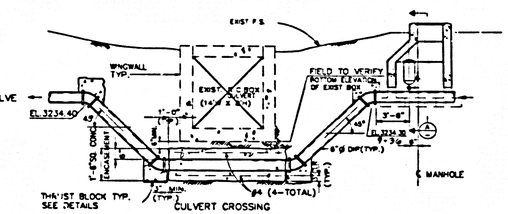


NOTES

1. PAYMENT FOR FORCEMAIN ON TREATMENT PLANT SITE IS INCLUDED IN TREATMENT PLANT MECHANICAL BID ITEM
2. THRUST BLOCK AS REQUIRED AT EACH BEND



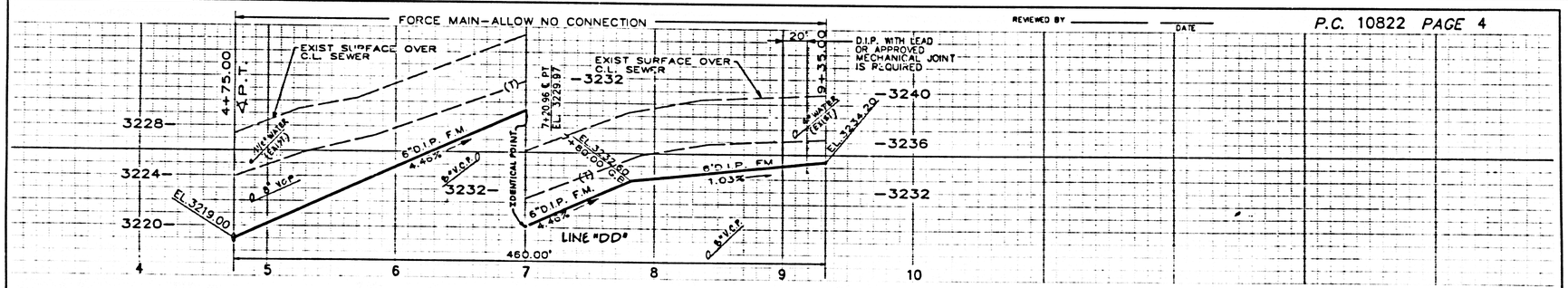
SECTION A
N.T.S.

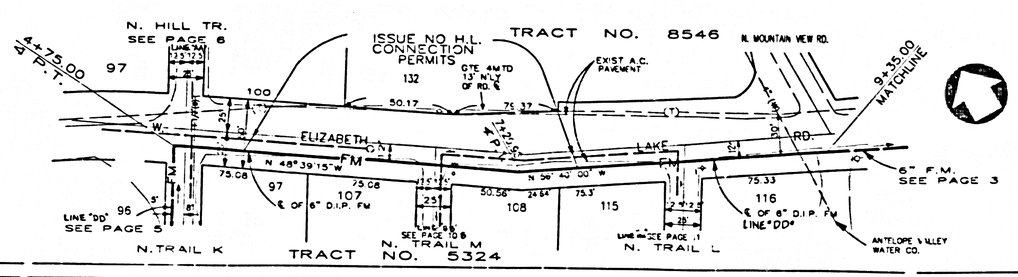


DETAIL 1
N.T.S.

As Built, July 1992 RDB

REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 4





As Built, July 1992 RDB

082-005 SS CDC
LAKE HUGHES

3/29

P.C. 10822 (5)

032-005	SS	CDC
LAKE HUGHES		

4/29

P.C. 10822

082-005	SS	CDC
LAKE HUGHES		

REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 7

REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 8

℄ SEWER CURVE DATA				
	Δ	R	L	T
Ⓐ	89° 01'50"	300.00'	42.05'	21.06'
Ⓑ	38° 01'15"	150.00	99.54'	51.68'

5/29

022-005 SS CDC
LAKE HUGHES

P.C. 10822 PAGE 9

REVIEWED BY _____ DATE _____

℄ SEWER CURVE DATA				
	Δ	R	L	T
(A)	8° 26' 27"	300.00'	96.56'	48.70'
(B)	42° 05' 36"	120.00'	88.16'	46.18'
(C)	19° 23' 21"	120.00'	40.61'	20.50'

As Built, July 1992 RDB

P.C. 10822 PAGE 10

REVIEWED BY _____ DATE _____

℄ SEWER CURVE DATA
(A) Δ = 8°00'45" R = 300.00' L = 41.95' T = 21.01'

As Built, July 1992 RDB

P.C. 10822 (9)

6/29

P.C. 10822 (11)

REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 11

As Built, July 1992 RDB

REVIEWED BY _____ DATE _____ P.C. 10822 PAGE 12

DOUBLE SCALE

As-Built, July 1992 RDB

032-005 SS CDC
LAKE HUGHES

7/29

P.C. 10822 (13)

082-005	SS	CDC
LAKE HUGHES		

8/29

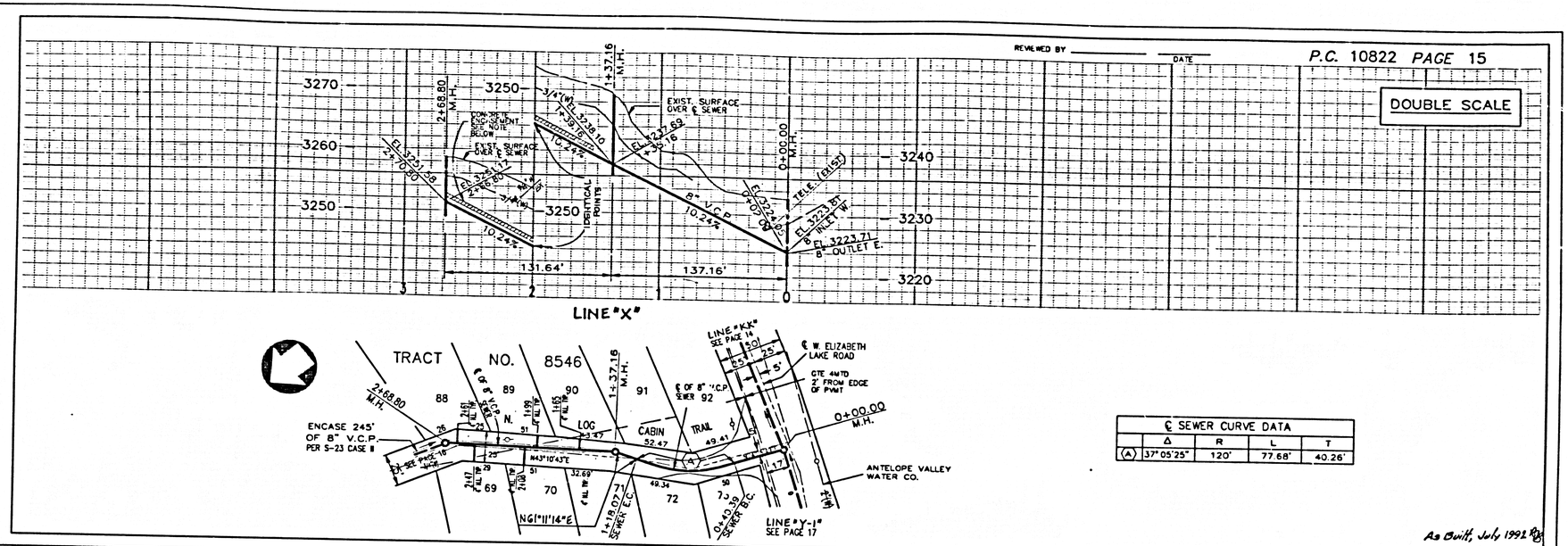
P.C. 10822

(15)

REVIEWED BY _____ DATE

P.C. 10822 PAGE 15

DOUBLE SCALE



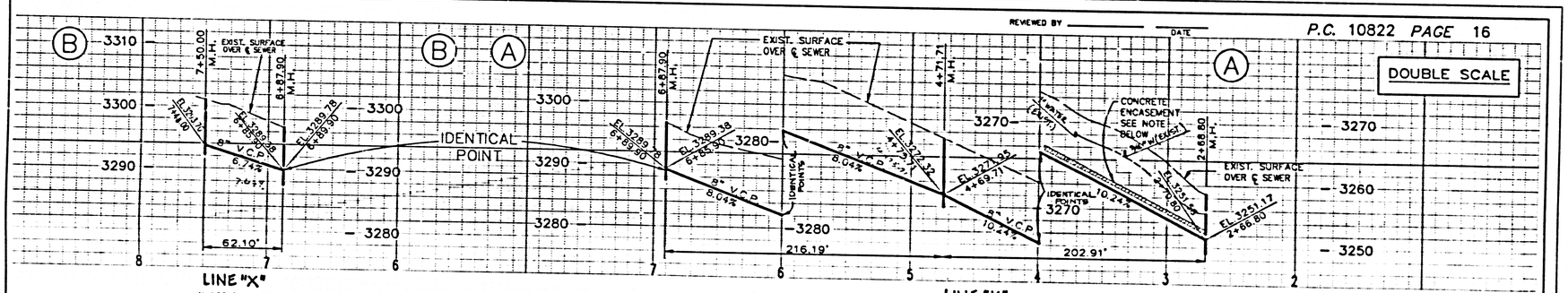
℄ SEWER CURVE DATA				
	Δ	R	L	T
(A)	37°05'25"	120'	77.68'	40.26'

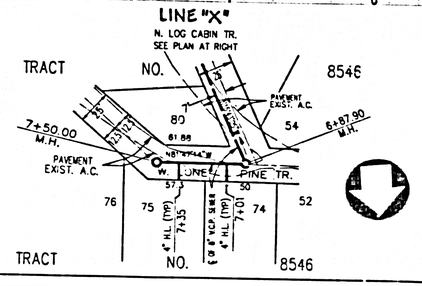
As Built, July 1992 RB

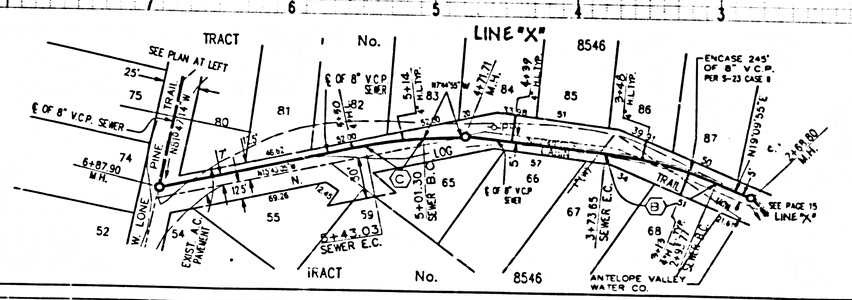
REVIEWED BY _____ DATE

P.C. 10822 PAGE 16

DOUBLE SCALE







℄ SEWER CURVE DATA				
	Δ	R	L	T
(B)	16°21'45"	280'	79.88	40.21'
(C)	7°58'10"	300'	41.73'	20.90'

As Built July 1992 RB

032-035	SS	CDC
LAKE HUGHES		

9/29

P.C. 10822

032-006	SS	CDC
LAKE HUGHES		

P.C. 10822

10/29

032-005	SS	C.D.C.
LAKE HUGHES		

P.C. 10822 (19)

11/29

032-005 S81 CDC
LAKE HUGHES

5

S2801 .5.4

12/29

P.C. 10822 (33)

REVIEWED BY _____ DATE _____

P.C. 10822 PAGE 23

As Built, July 1992 RBB

REVIEWED BY _____ DATE _____

P.C. 10822 PAGE 24

DOUBLE SCALE

As Built, July 1992 RBB

EAS FILE COPY DRAWING

0832-005 SS CDC

LAKE HUGHES

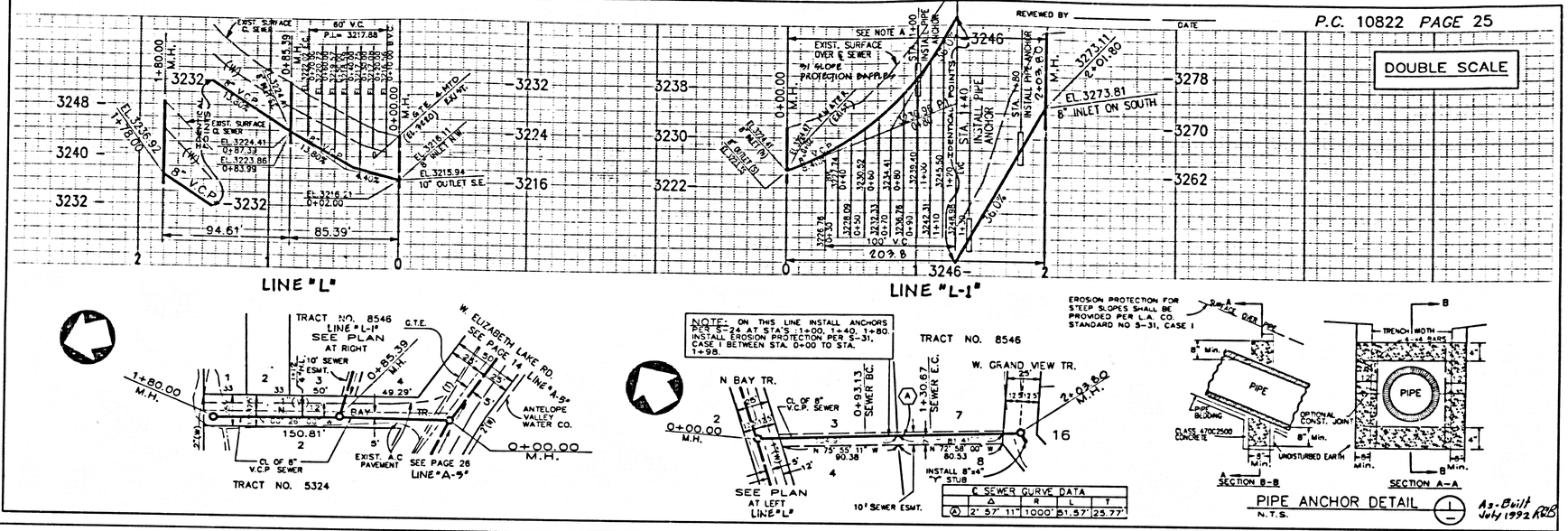
13/29

052-005 SS CDC
LAKE HUGHES

P.C. 10822 PAGE 25

REVIEWED BY _____ DATE _____

DOUBLE SCALE

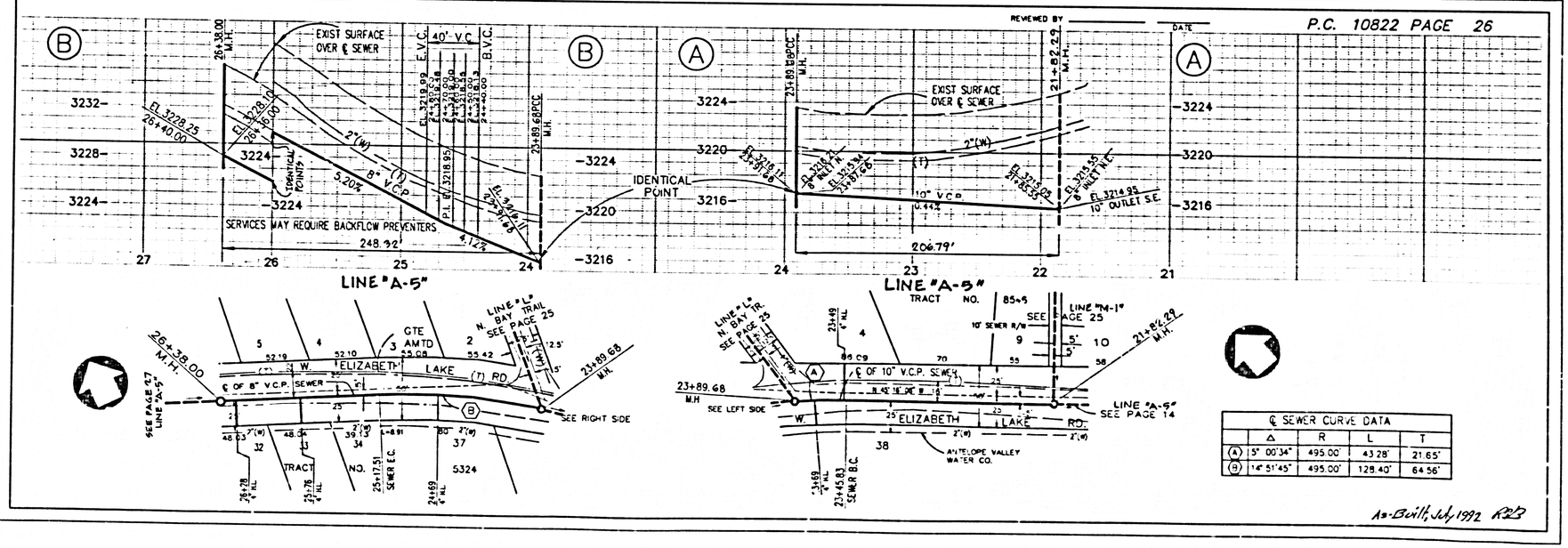


℄ SEWER CURVE DATA				
	Δ	R	L	T
A	2° 57' 11"	1000'	81.57'	25.77'

As-Built July 1992 RJB

P.C. 10822 PAGE 26

REVIEWED BY _____ DATE _____



℄ SEWER CURVE DATA				
	Δ	R	L	T
A	5° 00'34"	495.00'	43.28'	21.65'
B	14° 51'45"	495.00'	128.40'	64.56'

As-Built, July 1992 RJB

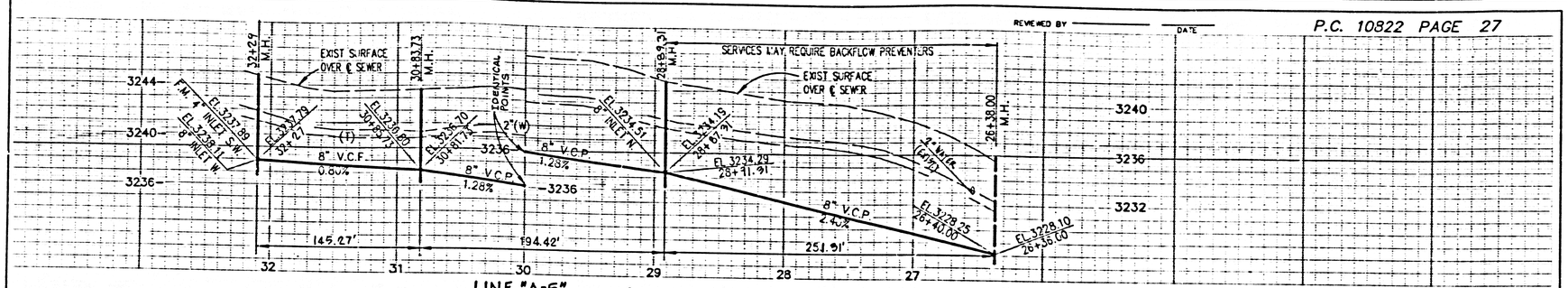
P.C. 10822

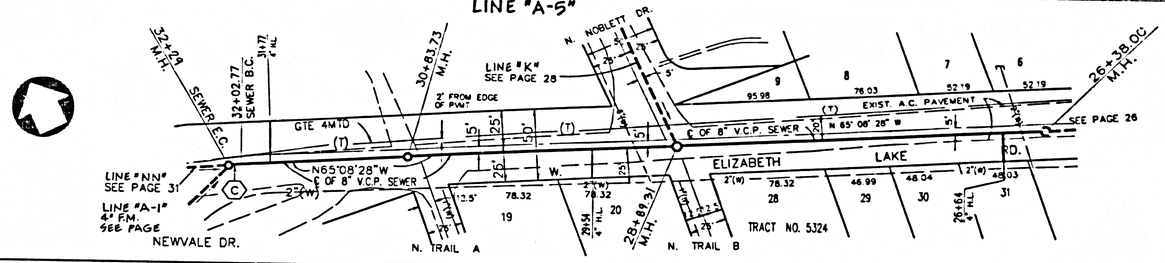
14/29

P.C. 10822 (1)

REVIEWED BY _____ DATE _____

P.C. 10822 PAGE 27





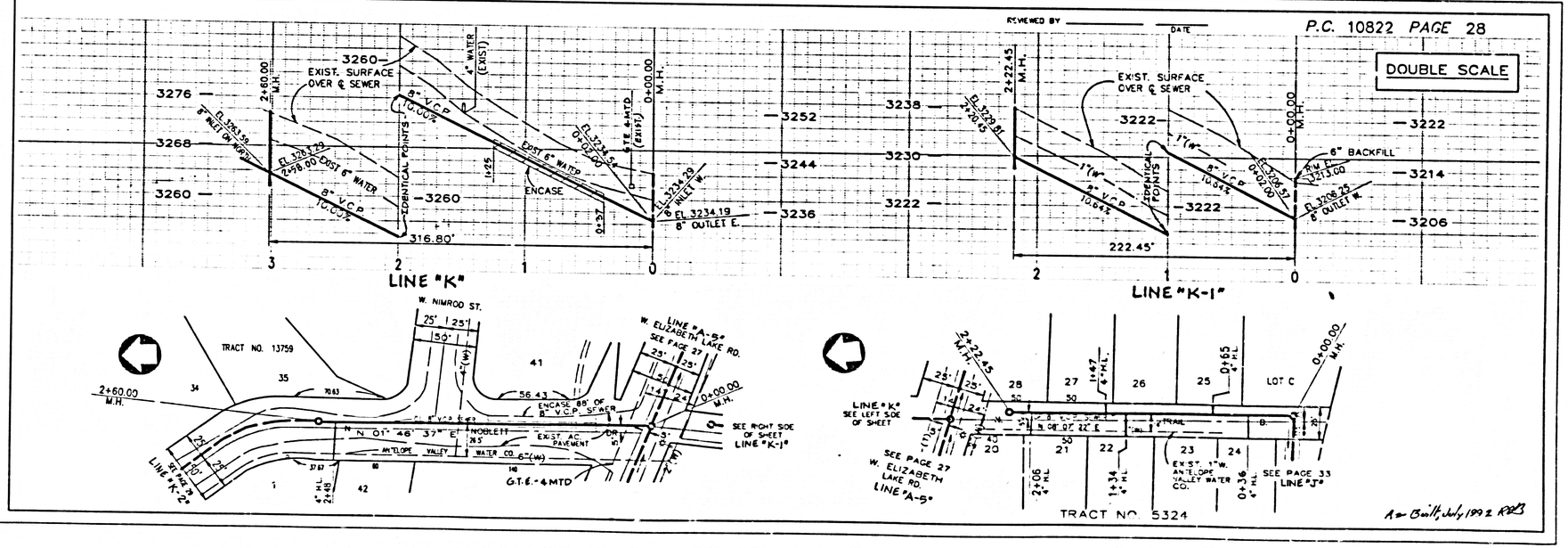
℄ SEWER CURVE DATA				
	Δ	R	L	T
(C)	1°00'53"	495.00'	8.77'	4.38'

As-Built, July 1992 RRB

REVIEWED BY _____ DATE _____

P.C. 10822 PAGE 28

DOUBLE SCALE



As-Built, July 1992 RRB

032-006 SS CDC
LAKE HUGHES

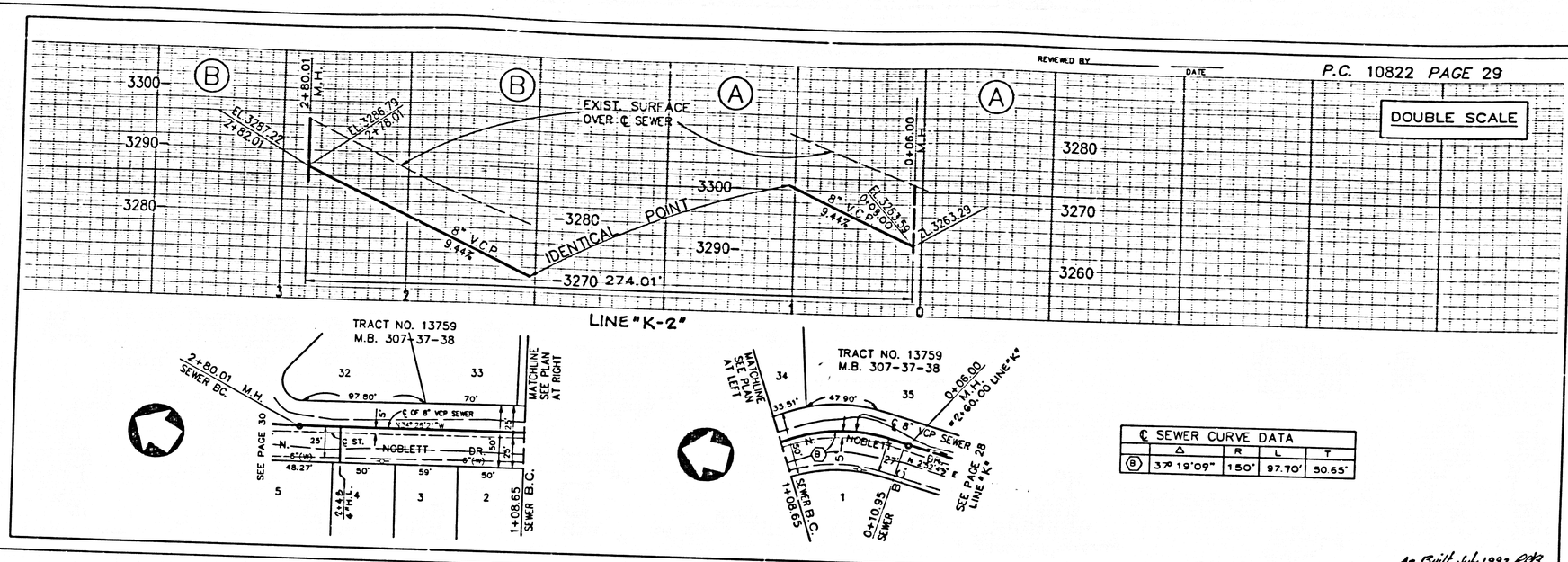
15/29

032-005 SS CDL
LAKE HUGHES

P.C. 10822 PAGE 29

REVIEWED BY _____ DATE _____

DOUBLE SCALE



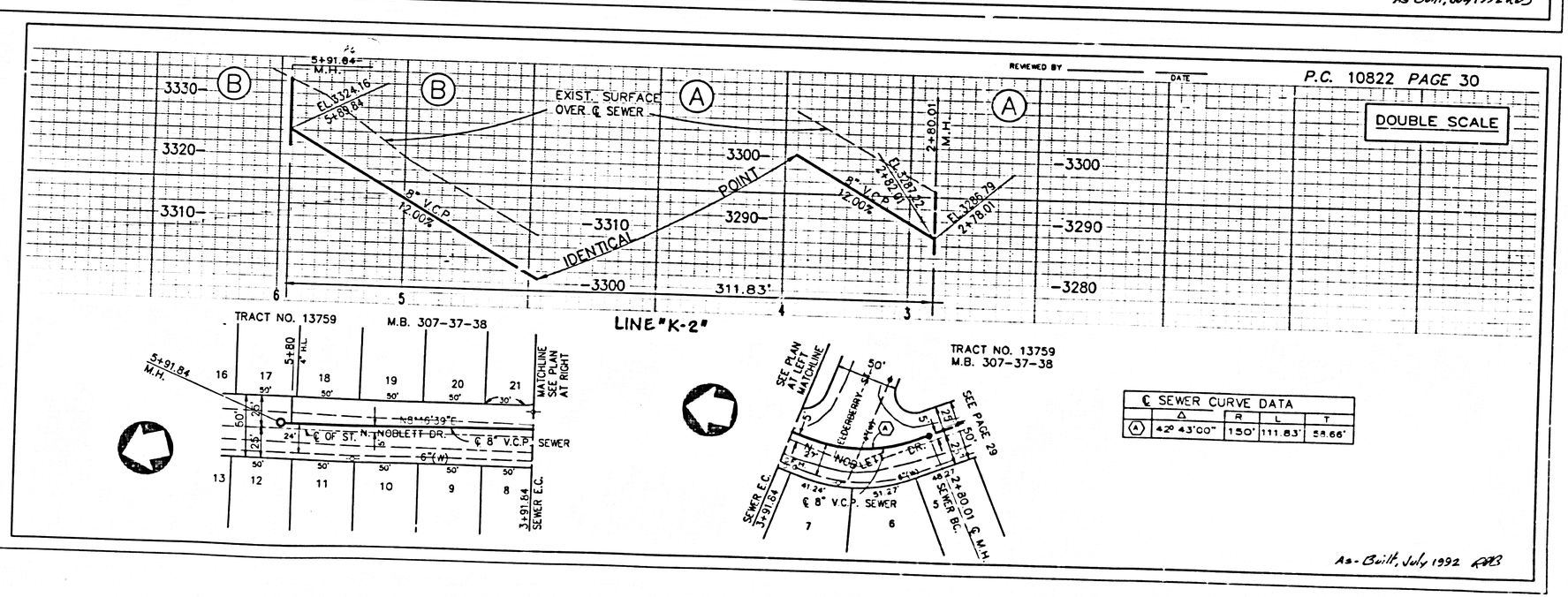
℄ SEWER CURVE DATA				
	Δ	R	L	T
(B)	37° 19'09"	150'	97.70'	50.65'

As Built, July 1992 RDB

P.C. 10822 PAGE 30

REVIEWED BY _____ DATE _____

DOUBLE SCALE



℄ SEWER CURVE DATA				
	Δ	R	L	T
(A)	42° 43'00"	150'	111.83'	58.66'

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232-005 SS CDC
LAKE HUGHES

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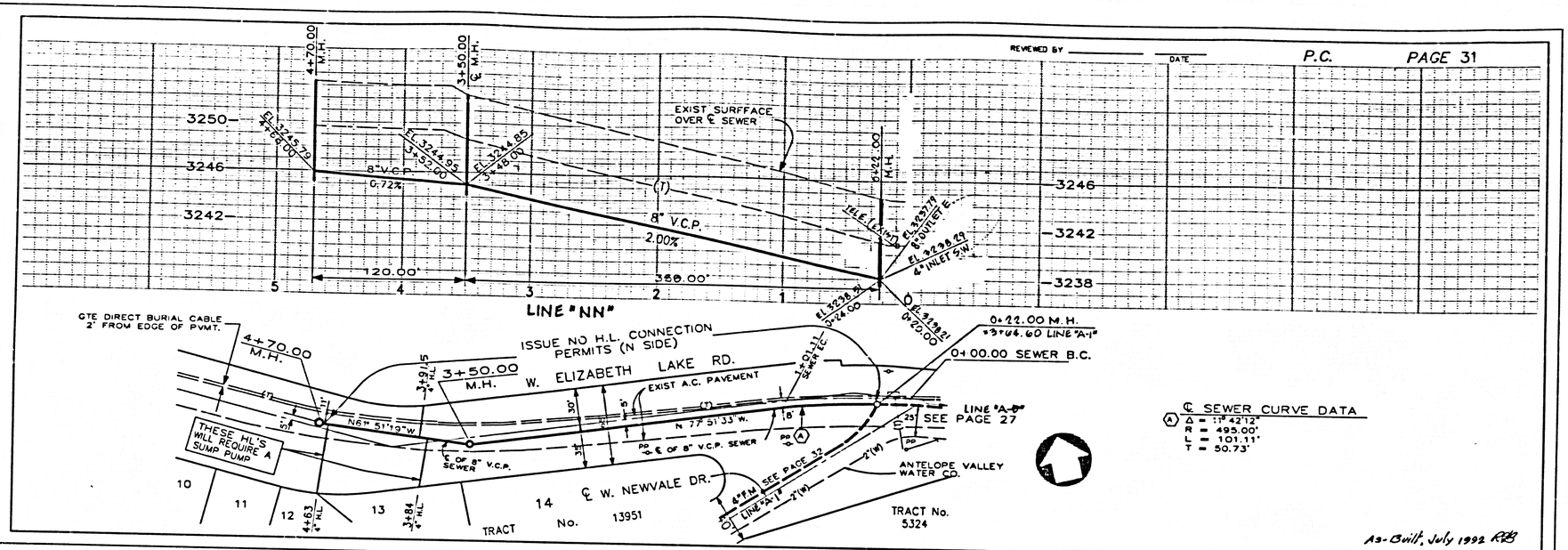

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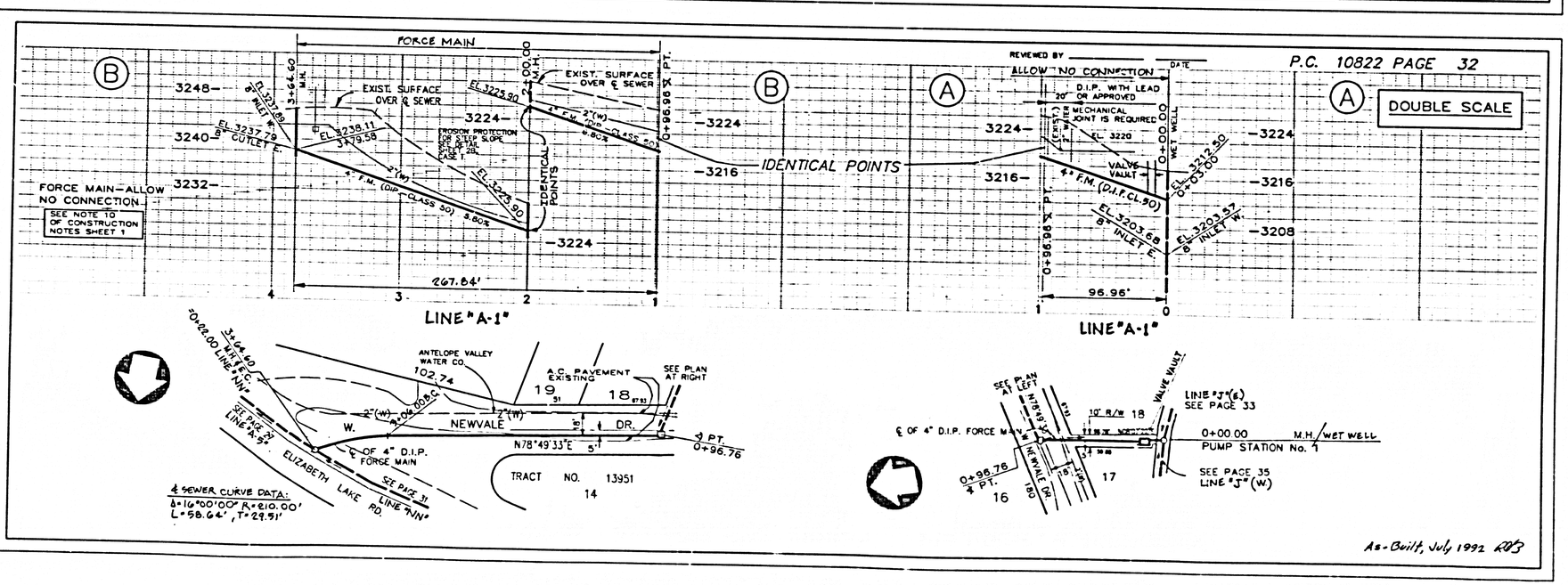

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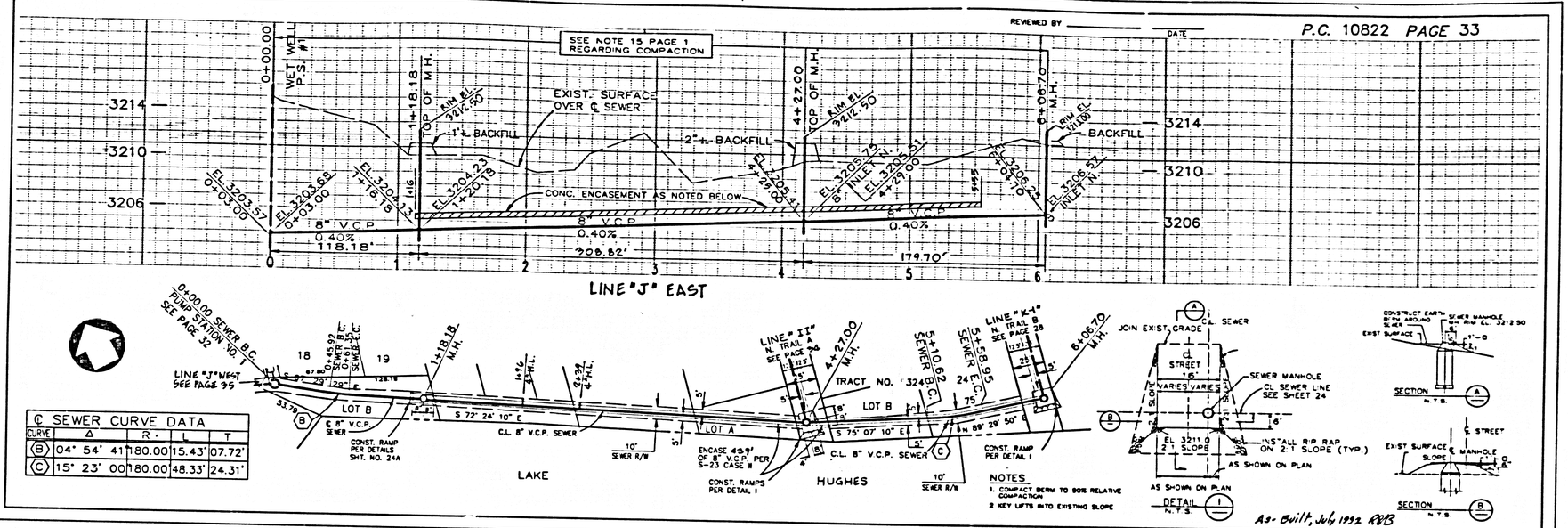

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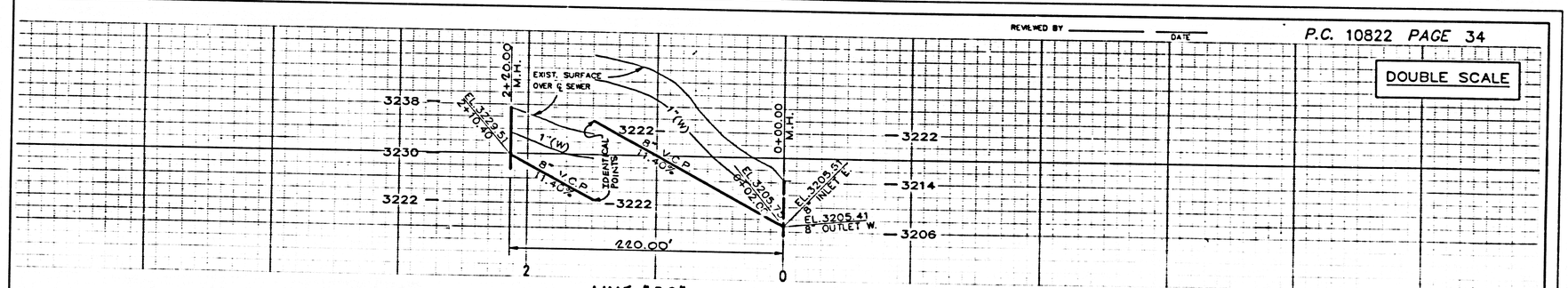
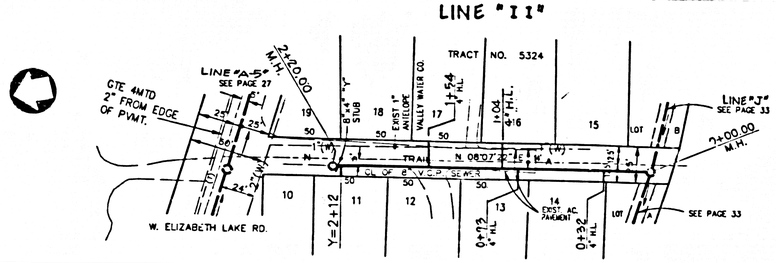
DOUBLE SCALE





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LAKE HUGHES

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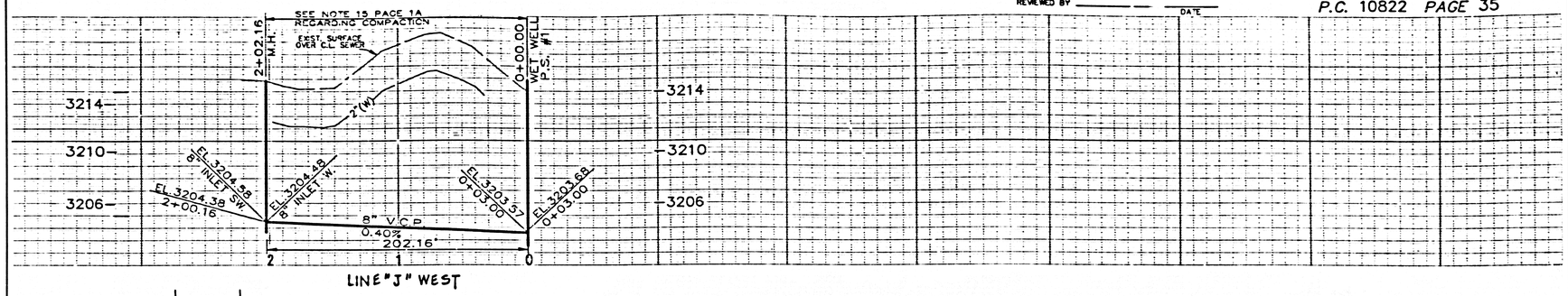

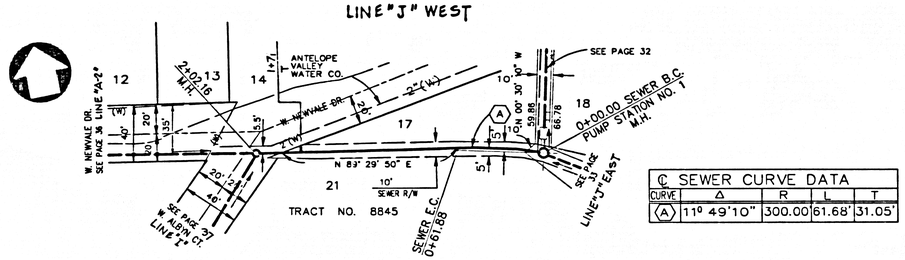

℄ SEWER CURVE DATA

CURVE	Δ	R	L	T
(A)	11° 49'10"	300.00	61.68'	31.05'

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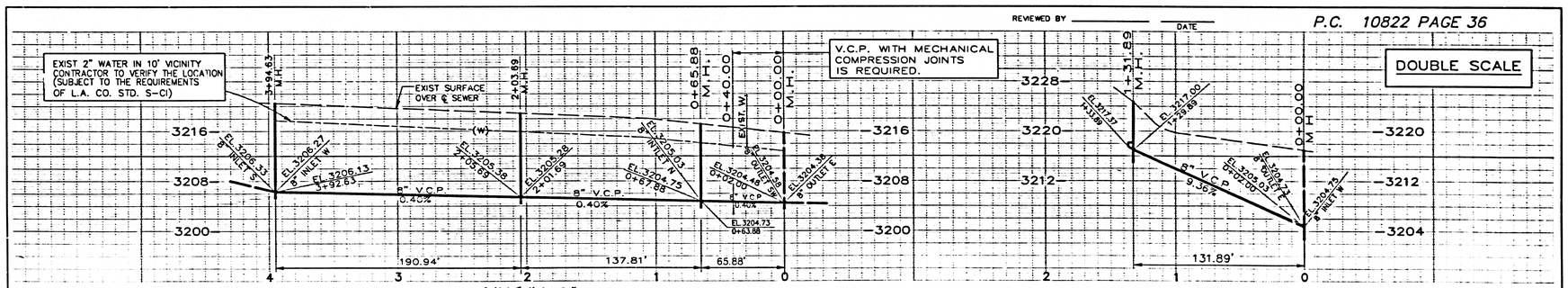

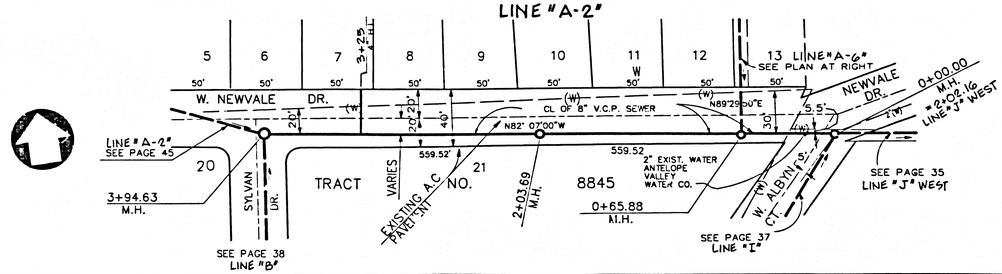

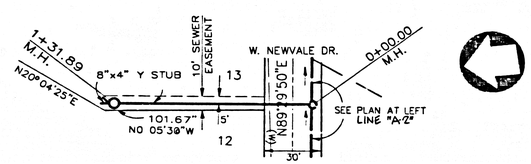

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SS	CDC
HUGHES	

ORZ-005 LAKE HUGHES

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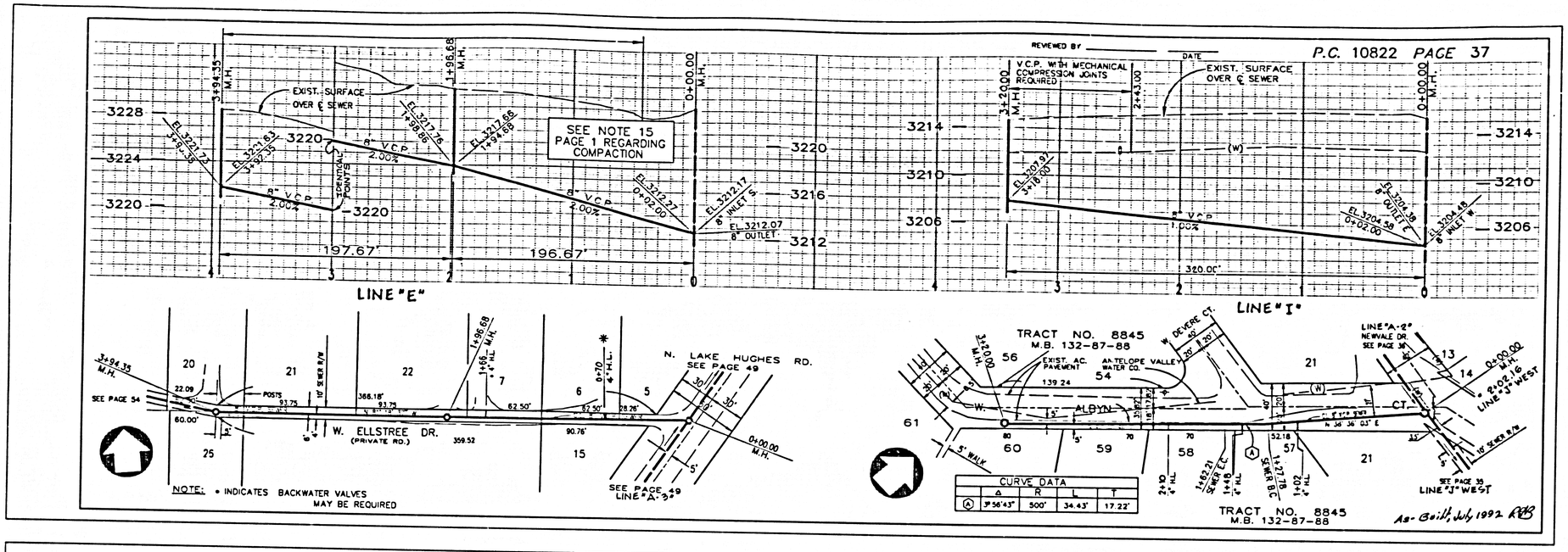
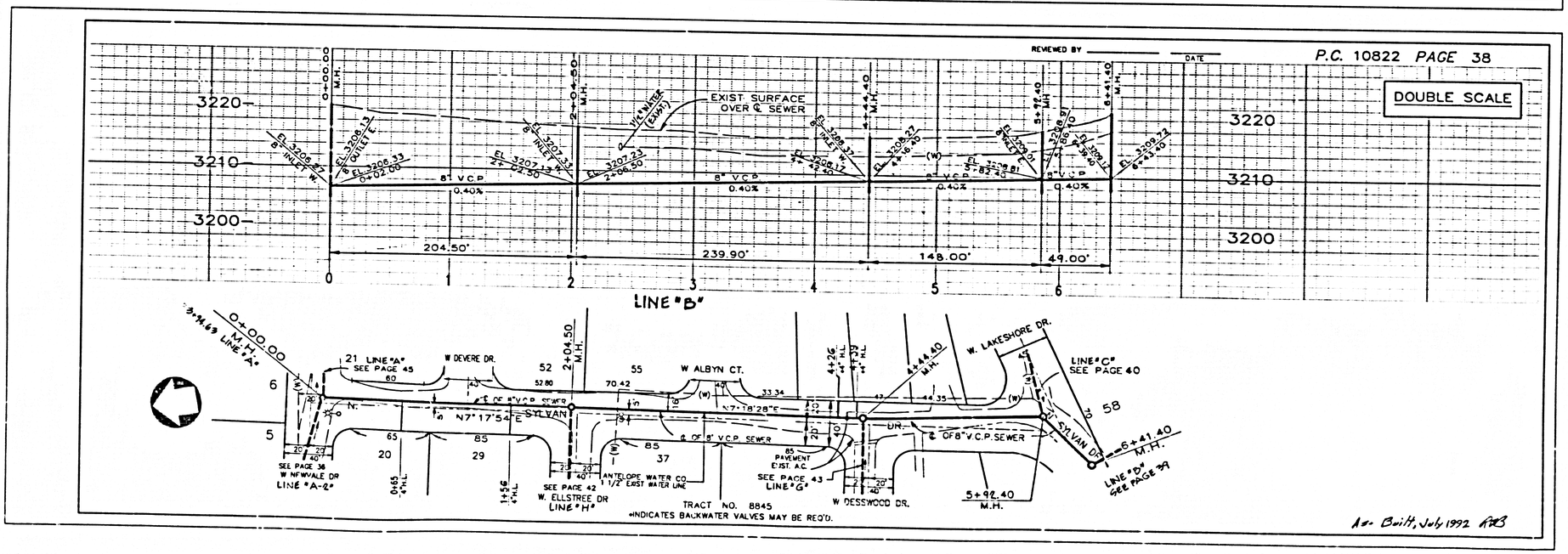
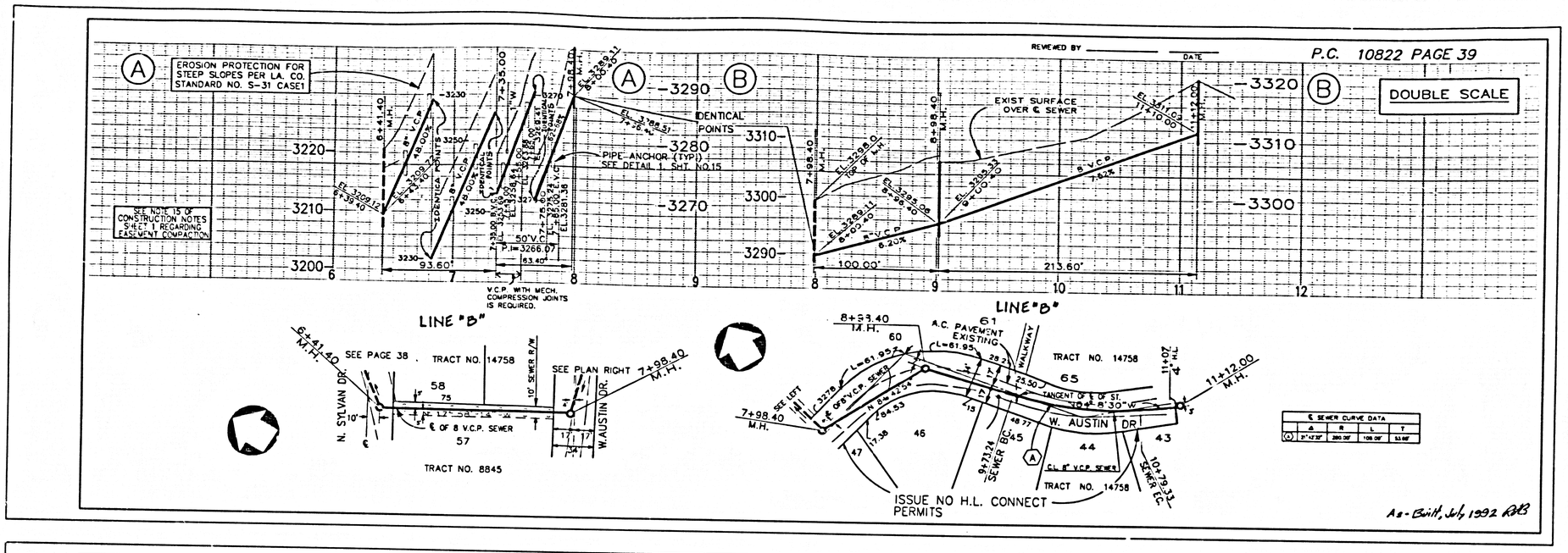
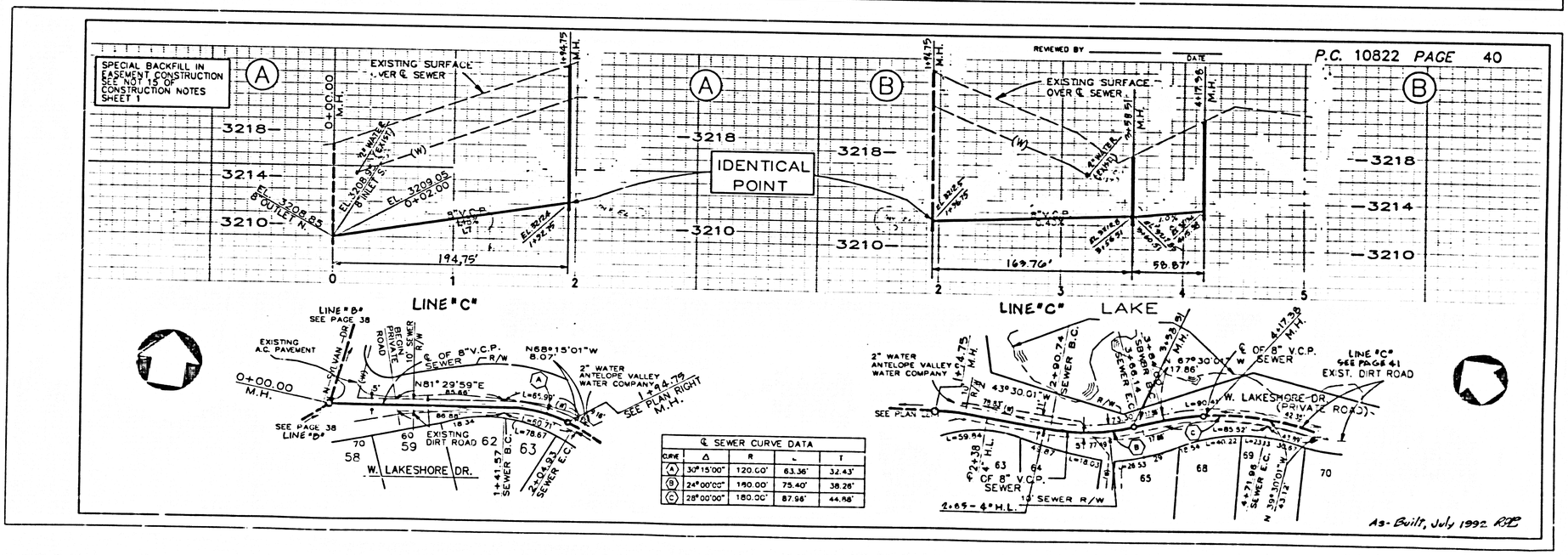




032-005	SS	CDC
LAKE HUGHES		





CURVE	Δ	R	L	T
A	30°15'00"	120.00'	63.36'	32.43'
B	24°00'00"	190.00'	75.40'	38.26'
C	28°00'00"	180.00'	87.98'	44.88'

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LAKE HUGHES			

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232-005	SS	CCC
LAKE HUGHES		

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℄ SEWER CURVE DATA				
CURVE	Δ	R	L	T
(D)	32° 00' 00"	360.00'	201.06'	103.23'

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LAKE HUGHES		

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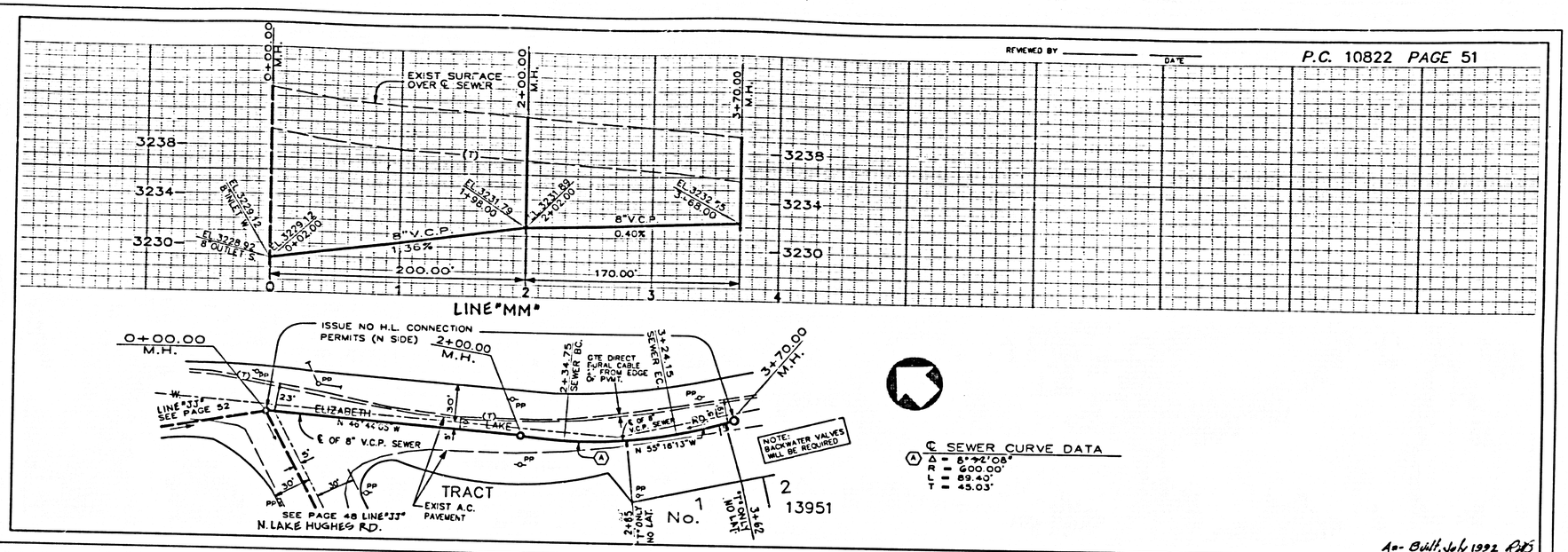

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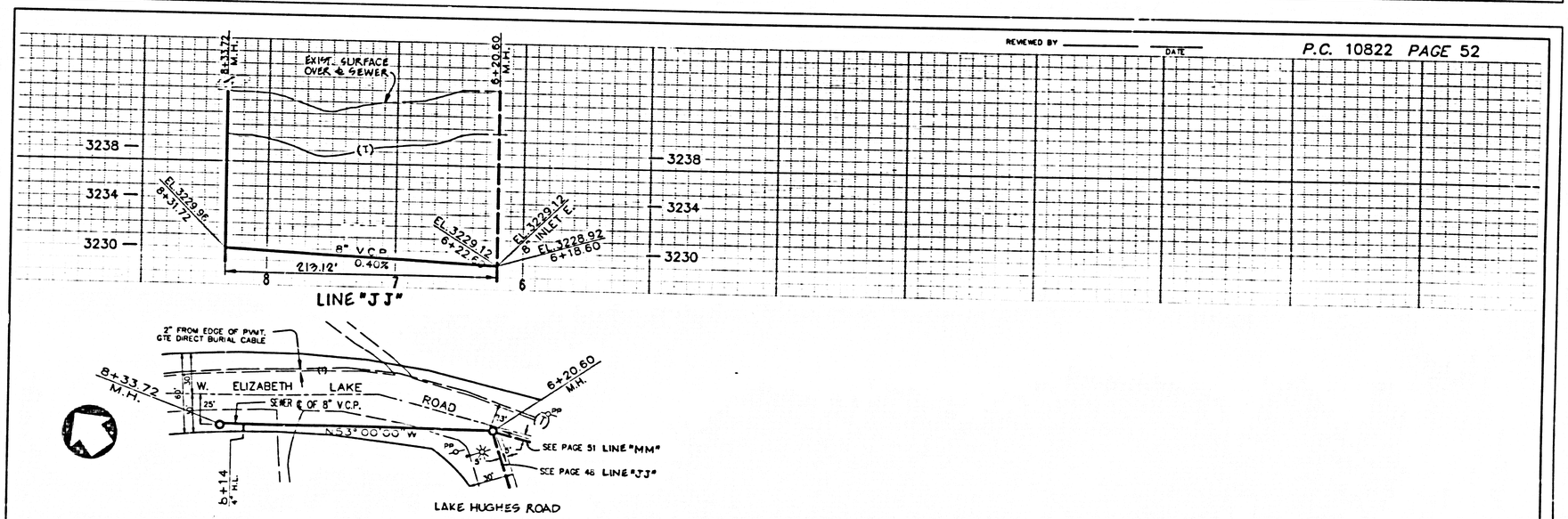

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LAKE HUGHES

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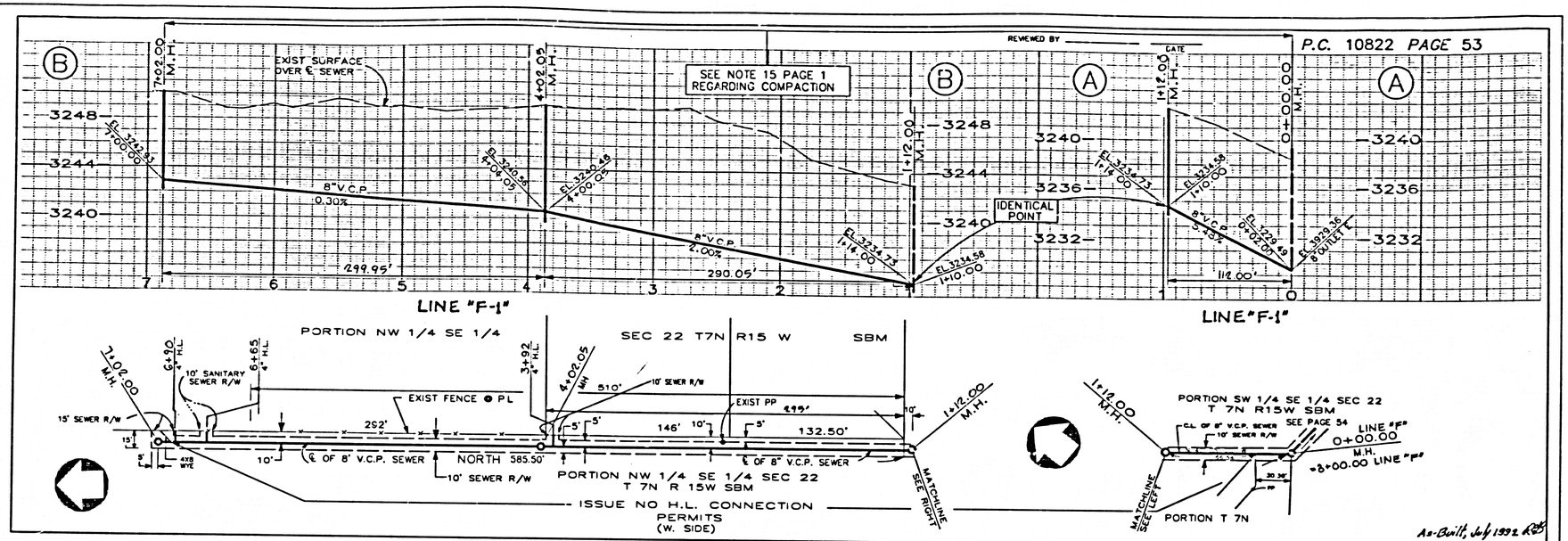

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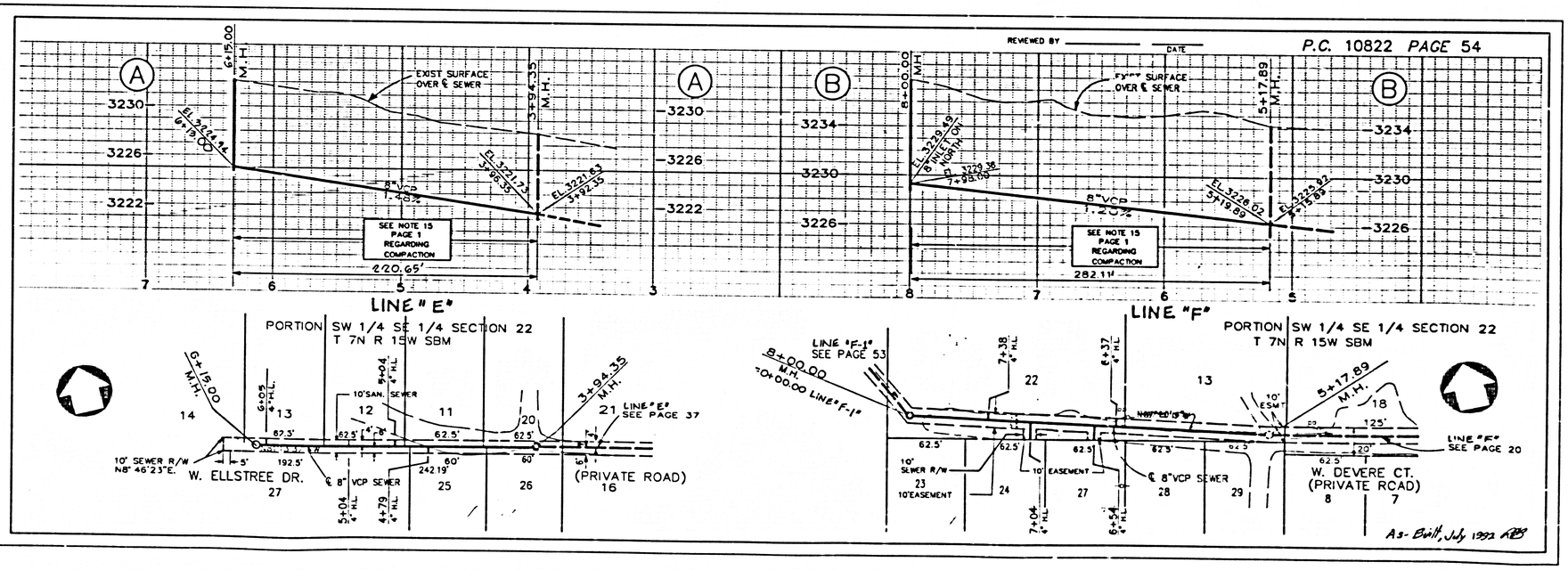
REVIEWED BY _____ DATE _____



DB2-005 SS
LAKE HUGHES

P.C. 10855

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D32-005 SS CDC
LAKE HUGHES

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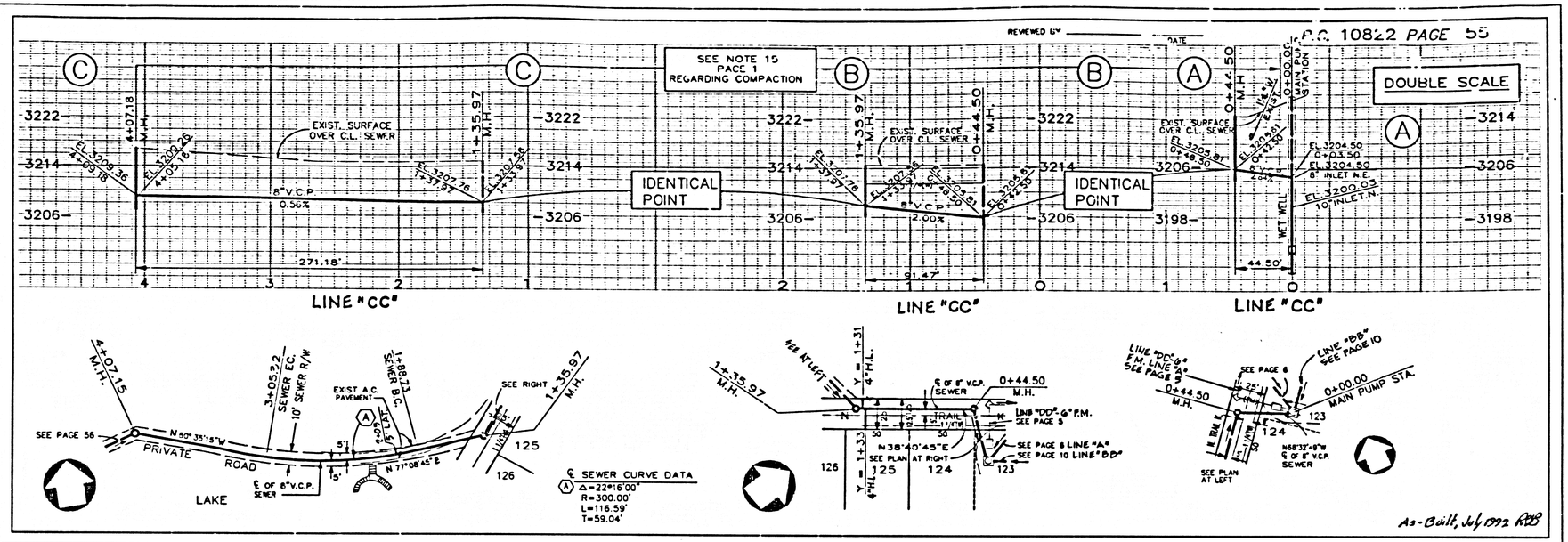

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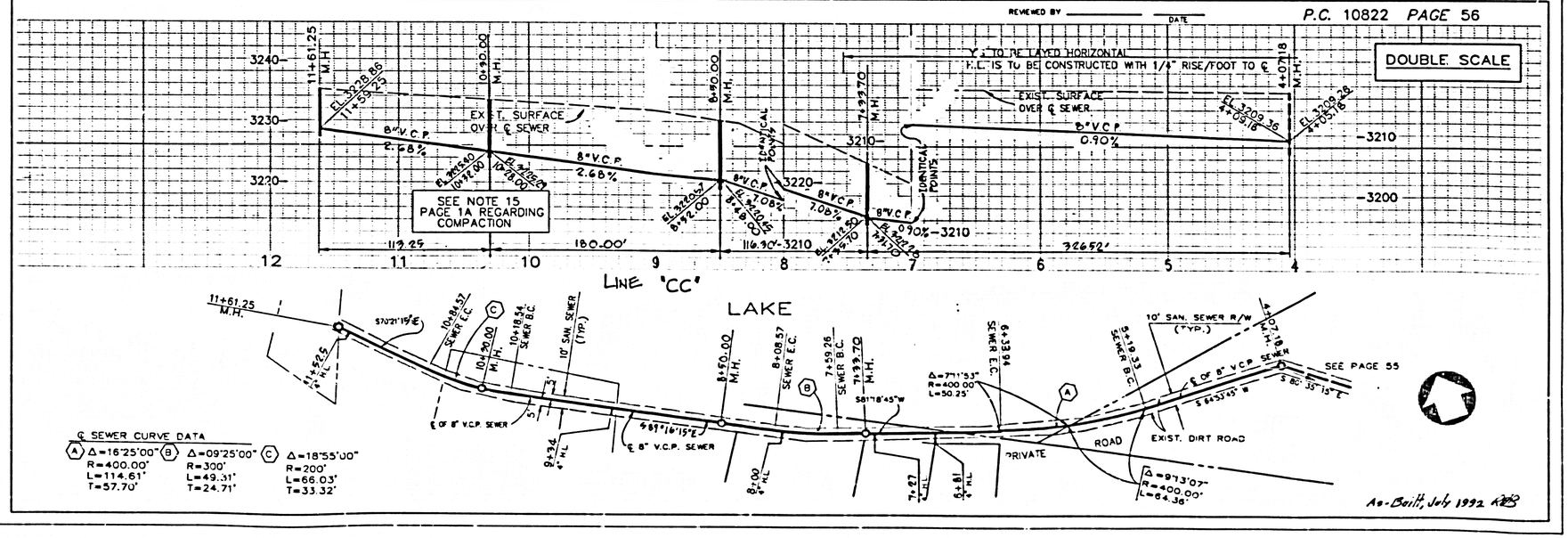

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DOUBLE SCALE

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LAKE HUGHES

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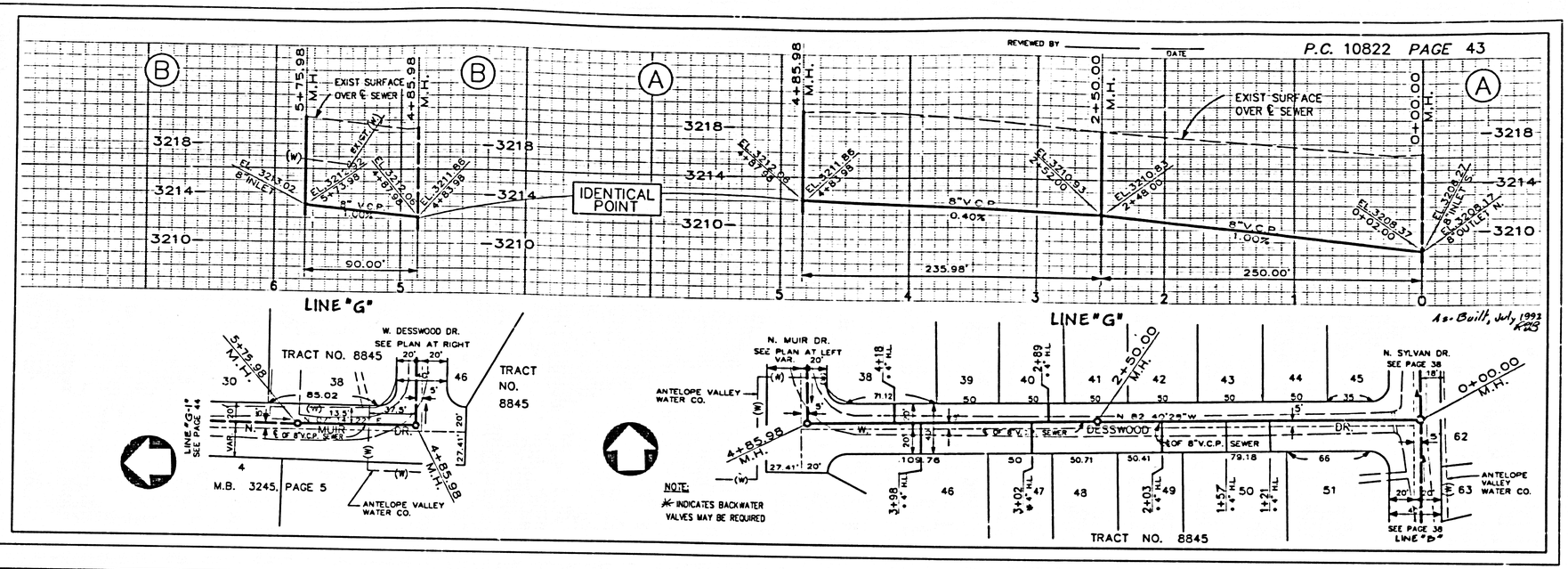

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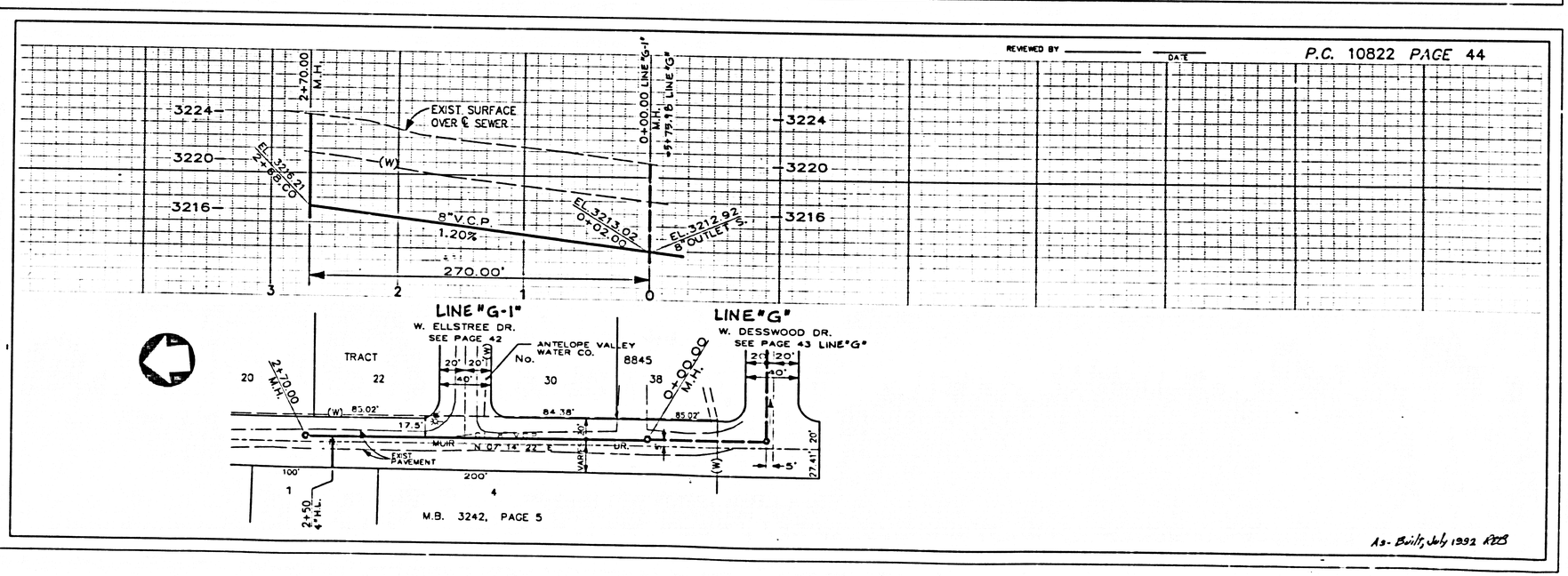

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LAKE HUGHES		

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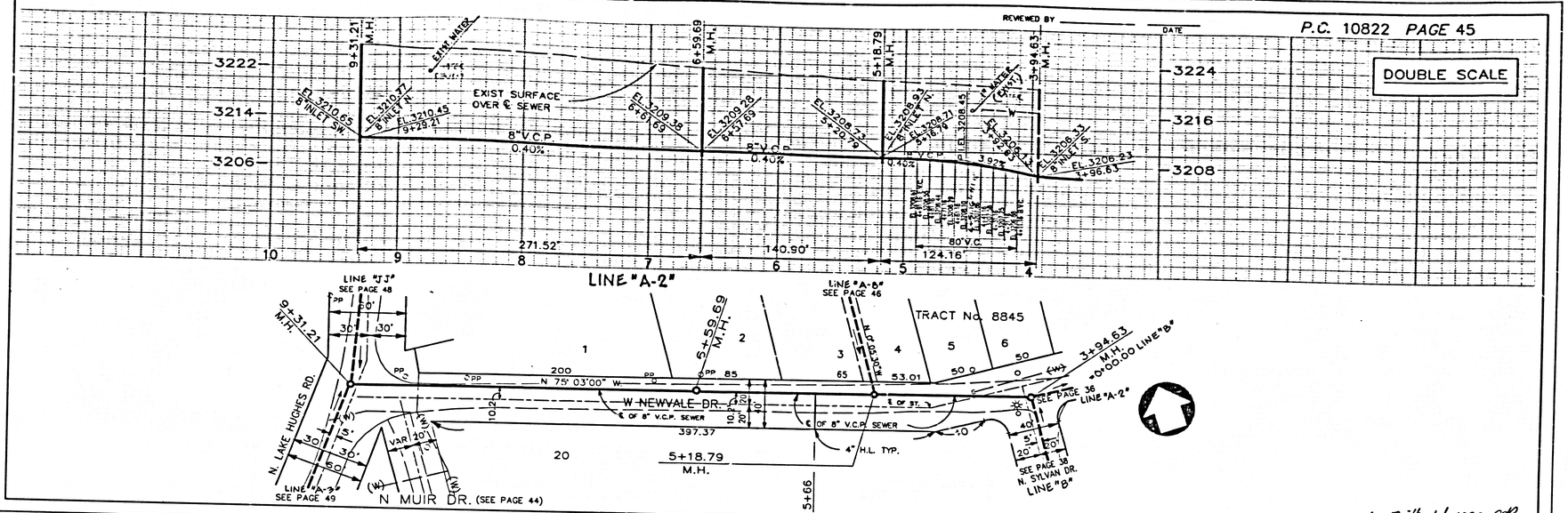
DOUBLE SCALE



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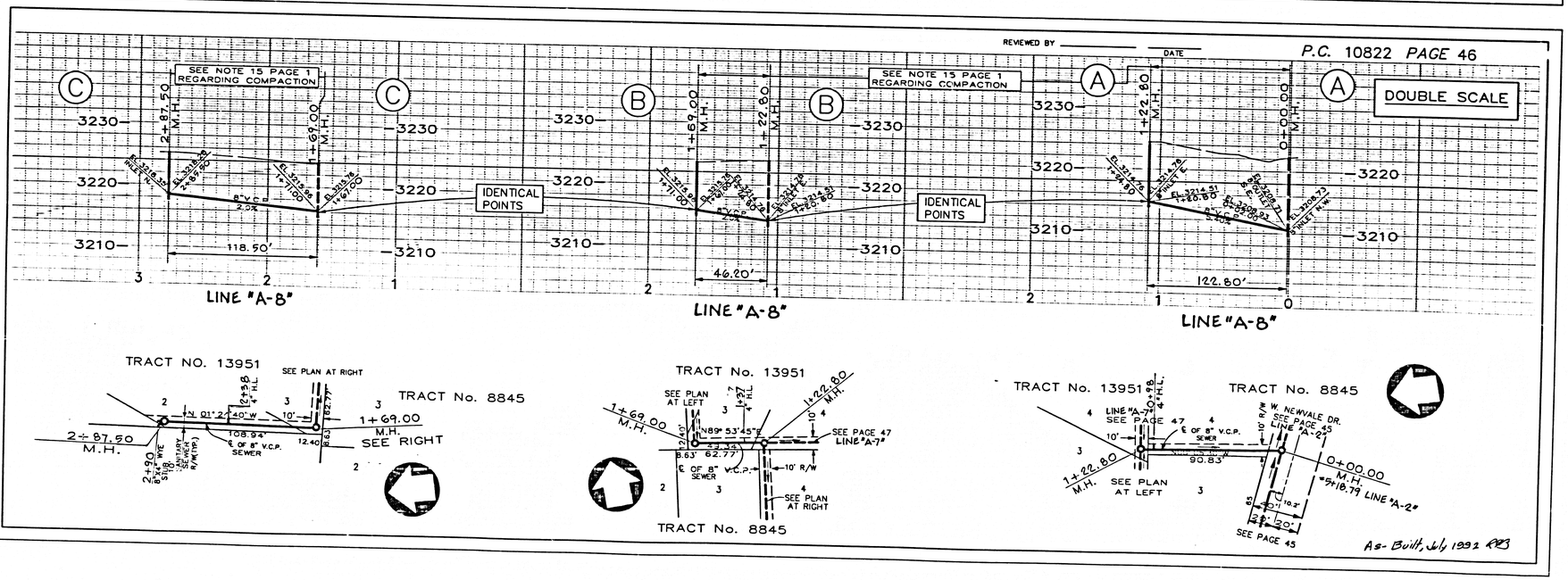
DOUBLE SCALE



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032-015	SS	CDC
LAKE HUGHES		

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