



SCALE: 1" = 30'

FOR PROPOSED CHANNEL, SEE SHEET 2

FOR MARSH LANE DITCH SECTION & HYDRAULICS SEE SHEET 2

4 x 36" R.C.P. (ON 3.0%) & HEADWALLS

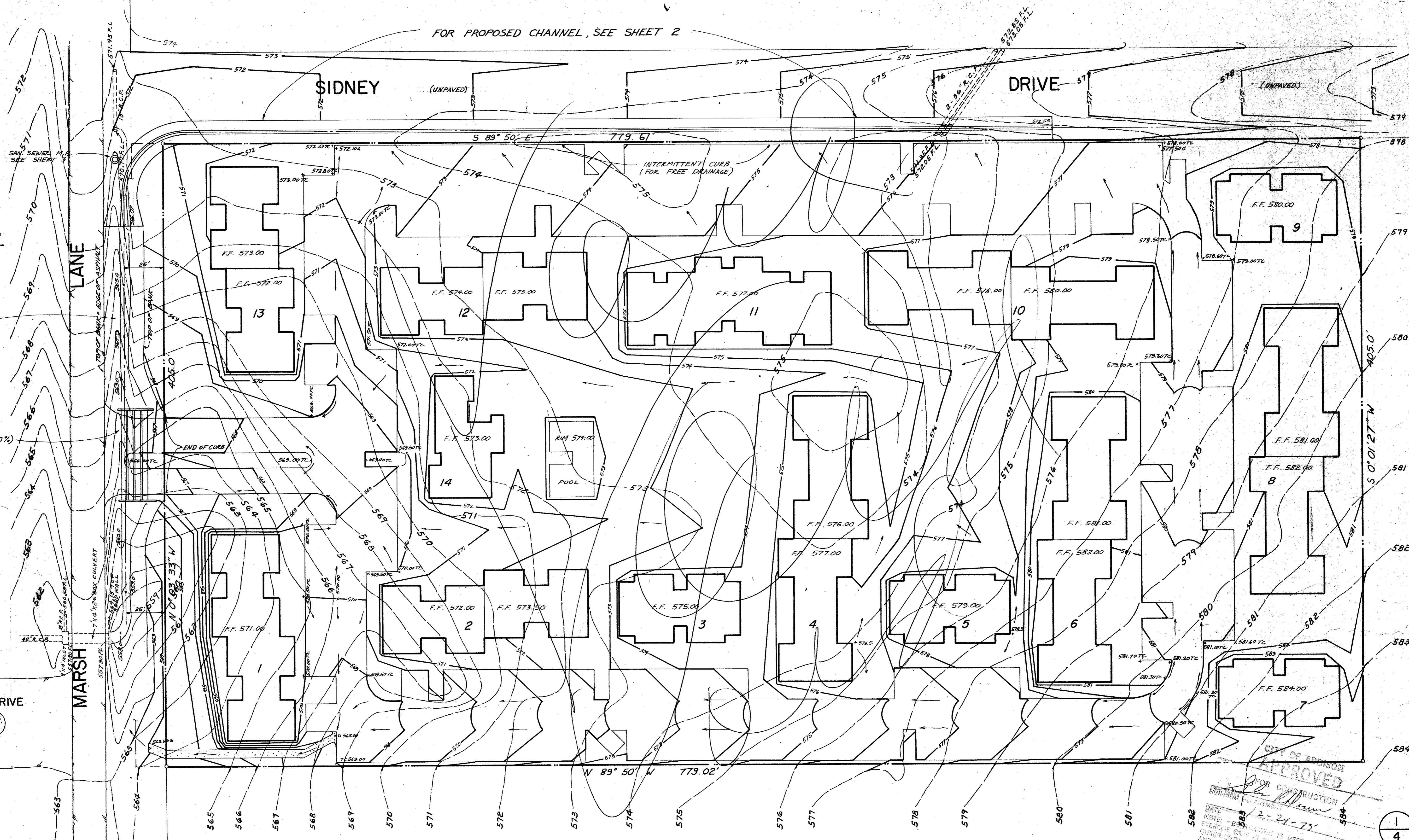
PEBBLE BEACH DRIVE

MARSH LANE

MARSH LANE

SIDNEY (UNPAVED)

DRIVE (UNPAVED)



NOTES:

1. ALL EXISTING INFORMATION (INCLUDING BOUNDARY & TOPO.) ARE FROM SURVEYS BY FREEMAN GRIZZARD, DATED DEC. 3 & 6, 1975

BENCH MARK

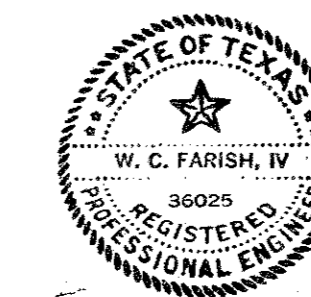
SQUARE CUT TOP LIGHT STANDARD BASE. ELEVATION = 564.33' SEE B.M., NEAR MARSH LANE, LOWER LEFT.

CITY OF ADDISON APPROVED FOR CONSTRUCTION

John R. Brown

DATE: 12-24-75

NOTE: CONTRACTOR IS HEREBY INSTRUCTED TO OBTAIN NECESSARY PERMITS AND APPROVALS OF THE CITY OF ADDISON AND THE STATE OF TEXAS BEFORE COMMENCING WORK. THIS WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL NECESSARY PERMITS AND APPROVALS ARE OBTAINED.



SITE GRADING PLAN

MARSH LANE PROJECT

FOR CARL SUMMERS

ADDISON, TEXAS

JOB NO. CI975 DATE DEC. 3, 75

REV. *Carl Somers*

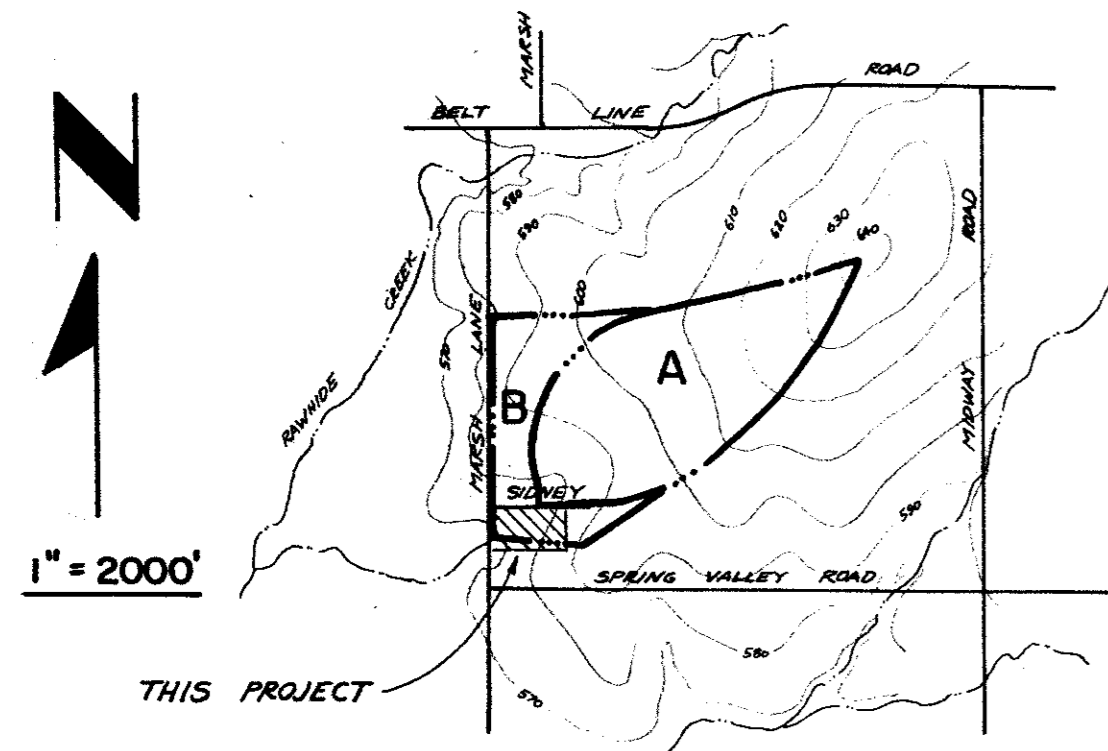
DONALD E. DAVIS
CONSULTING ENGINEERS
511-9380

1000 McKinney Ave., Dallas, Texas 75202

1/4

BENCH MARK
 '1' CUT IN TOP OF LIGHT STANDARD
 BASE AT PEBBLE BEACH DRIVE & MARSH LANE
 ELEV. 564.33

PLAN SCALE: 1" = 40'



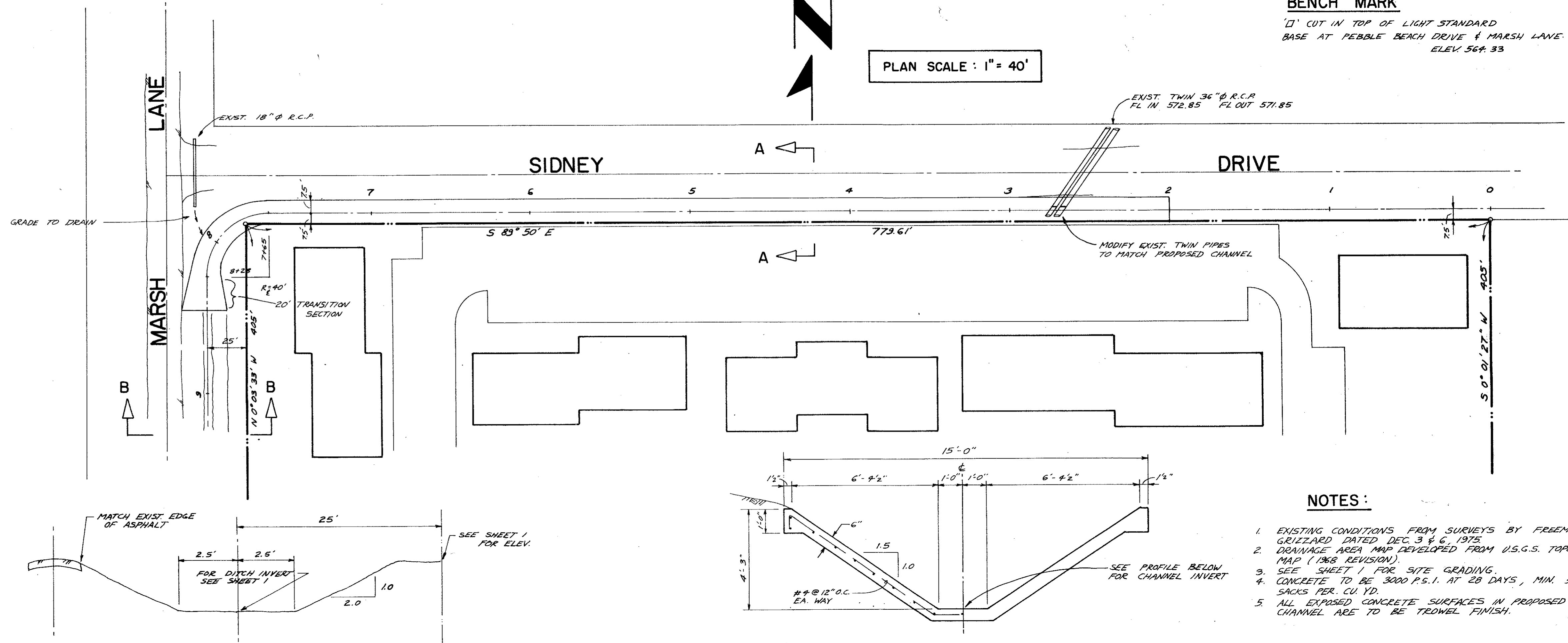
DRAINAGE AREA MAP

RUNOFF DESIGN

$x_c = 25$ MIN. (TO PIPES UNDER SIDNEY)
 $k_{10} = 4$ IN/HR. (FROM TECH. PAPER 25)
 $C = 0.85$ (AT. & RETAIL)
 $Q = C \cdot A$ (RATIONAL FORMULA)
 $Q_{10} = 3.4 \cdot A$

AREA 'A'
 $A_A = 101$ ACRES
 $Q_{10} = 3.4(101) = 343$ CFS

AREA 'B' (IN DITCH IN MARSH)
 $A_B = 46$ ACRES + $A_A = 147$ ACRES
 $Q_{10} = 3.4(147) = 500$ CFS



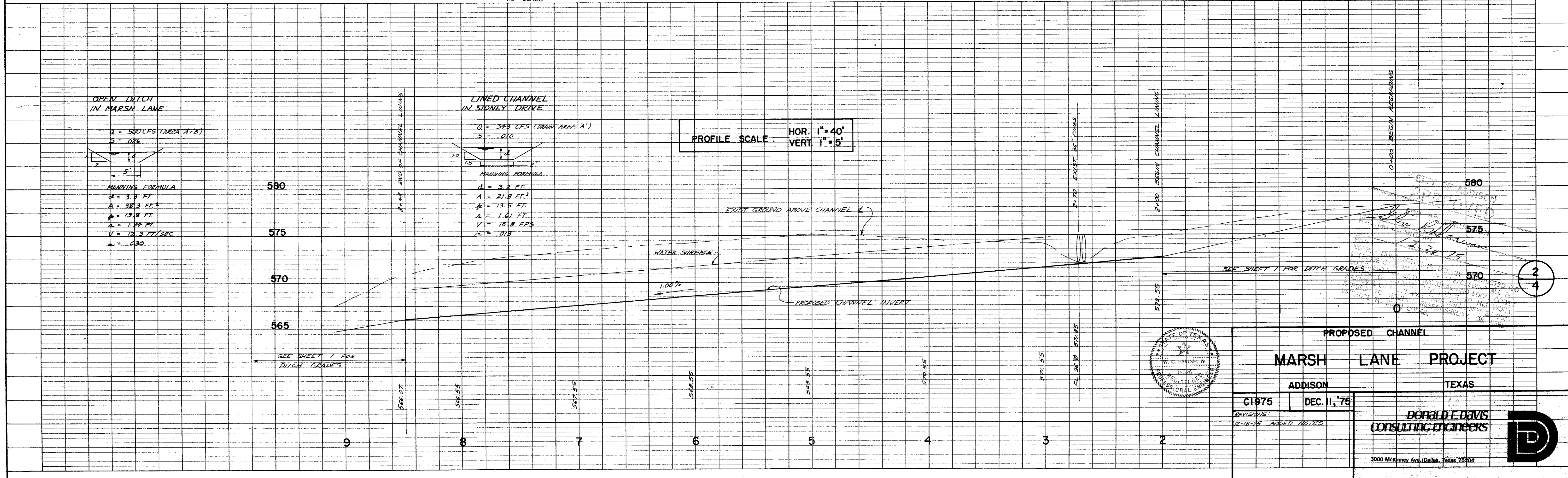
SECT. B-B (NOT SYM.)
 NO SCALE

SECT. A-A SYM. ABOUT $\frac{1}{2}$
 NO SCALE

- NOTES:**
- EXISTING CONDITIONS FROM SURVEYS BY FREEMAN GRIZZARD DATED DEC. 3 & 6, 1975.
 - DRAINAGE AREA MAP DEVELOPED FROM U.S.G.S. TOPO MAP (1968 REVISION).
 - SEE SHEET 1 FOR SITE GRADING.
 - CONCRETE TO BE 3000 P.S.I. AT 28 DAYS, MIN. 5 BAGS PER CU. YD.
 - ALL EXPOSED CONCRETE SURFACES IN PROPOSED CHANNEL ARE TO BE TROWEL FINISH.

DATE	
BY	
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
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NO. 19	
NO. 20	

DATE	
BY	
REVISIONS	
NO. 1	
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OPEN DITCH IN MARSH LANE

$Q = 500$ CFS (AREA 'A' & 'B')
 $S = 0.026$

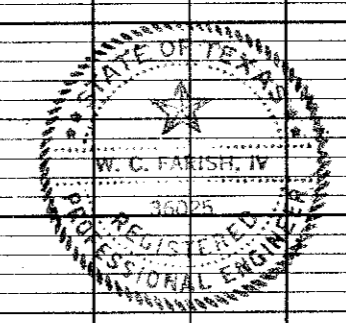
MANNING FORMULA
 $A = 3.8$ FT.
 $A^2 = 38.3$ FT.²
 $V = 13.8$ FT./SEC.
 $V^2 = 17.3$ FT.²/SEC.
 $n = 0.30$

LINED CHANNEL IN SIDNEY DRIVE

$Q = 343$ CFS (DRAIN AREA 'A')
 $S = 0.010$

MANNING FORMULA
 $A = 3.2$ FT.
 $A^2 = 27.9$ FT.²
 $V = 13.5$ FT.
 $V^2 = 16.1$ FT.²
 $n = 0.12$

PROFILE SCALE: HOR. 1" = 40'
 VERT. 1" = 5'



PROPOSED CHANNEL

MARSH LANE PROJECT

ADDISON TEXAS

C1975 DEC. 11, '75

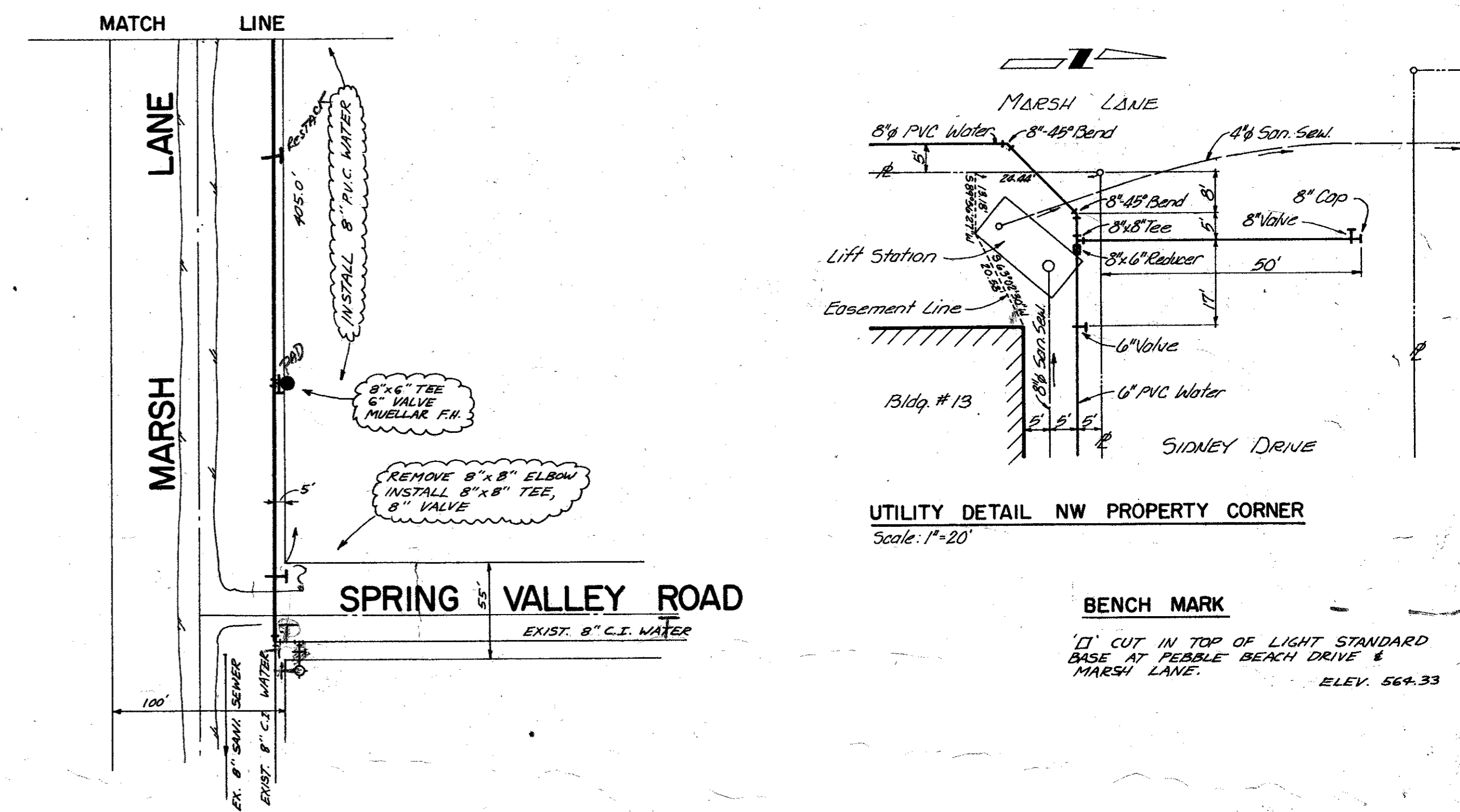
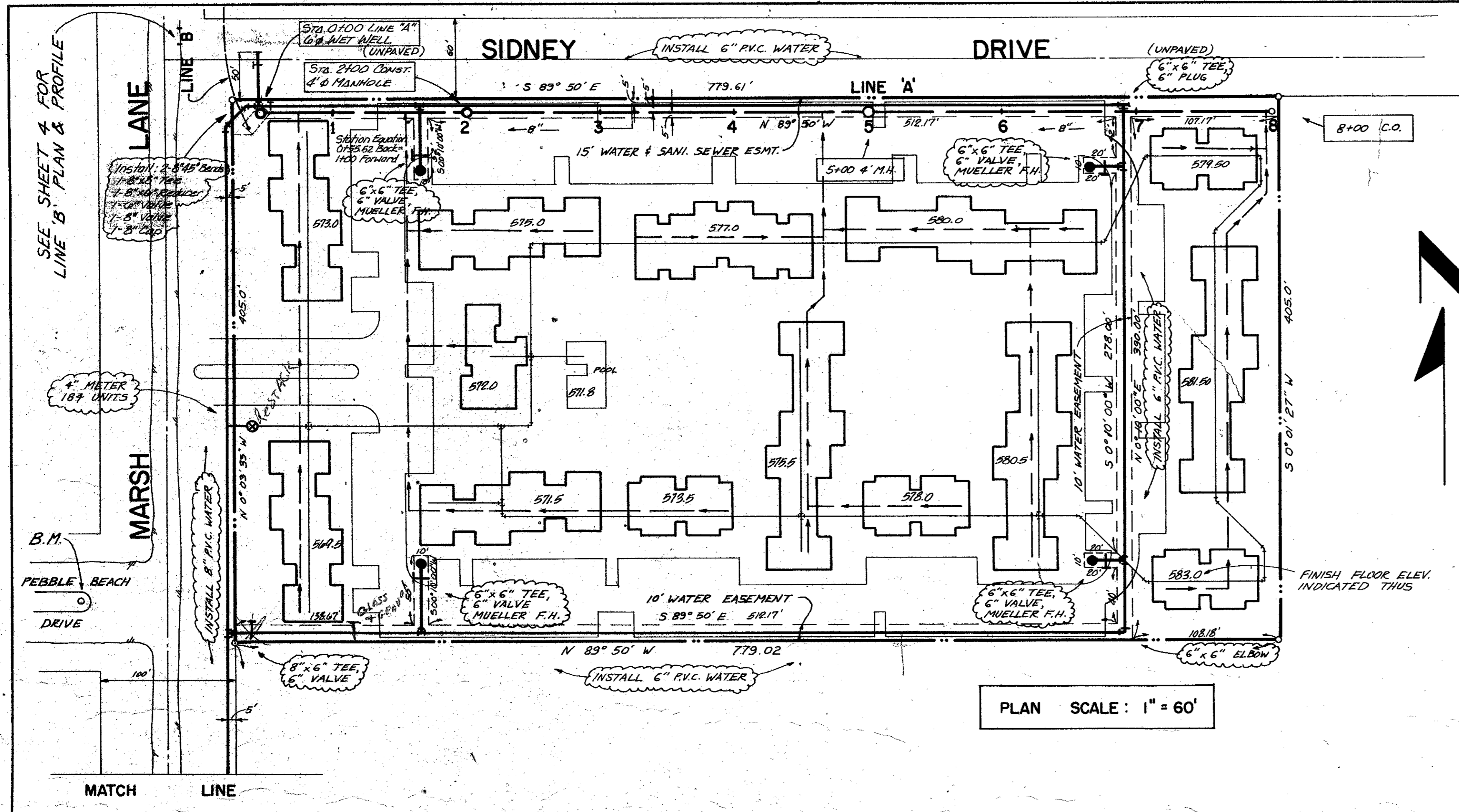
REVISIONS:
 12-18-75 ADDED NOTES

DONALD E. DAVIS CONSULTING ENGINEERS

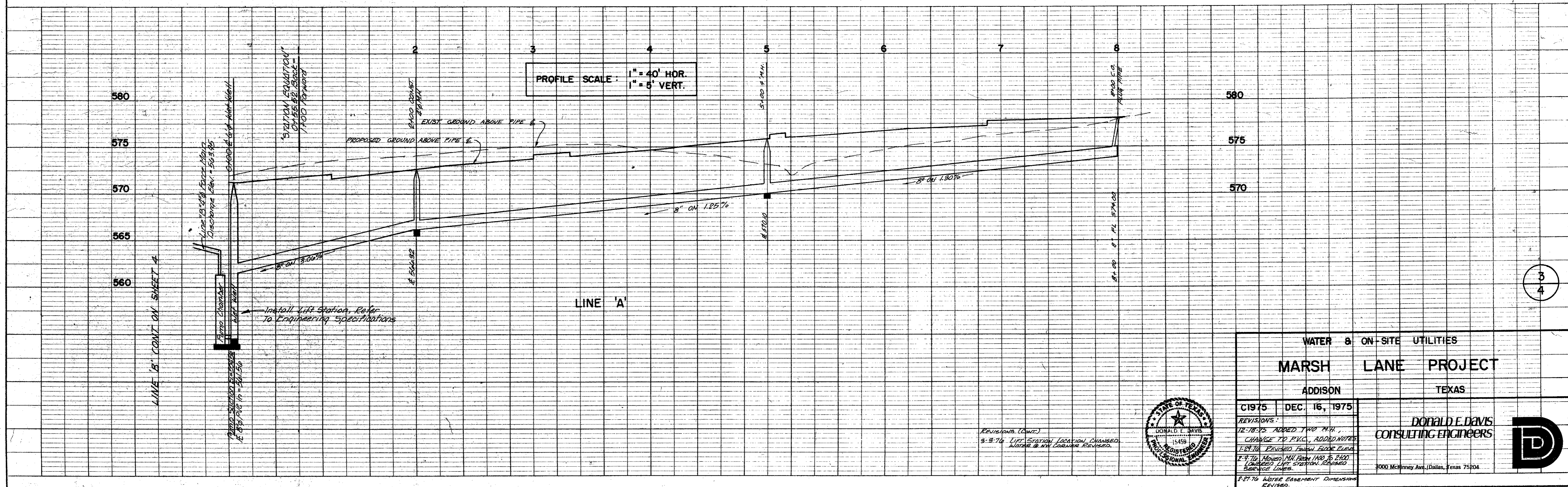
3000 McKinney Ave., Dallas, Texas 75204

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____
 CHECKED: _____
 STRUCTURE INDICATIONS CHECKED: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____
 CHECKED: _____
 STRUCTURE INDICATIONS CHECKED: _____



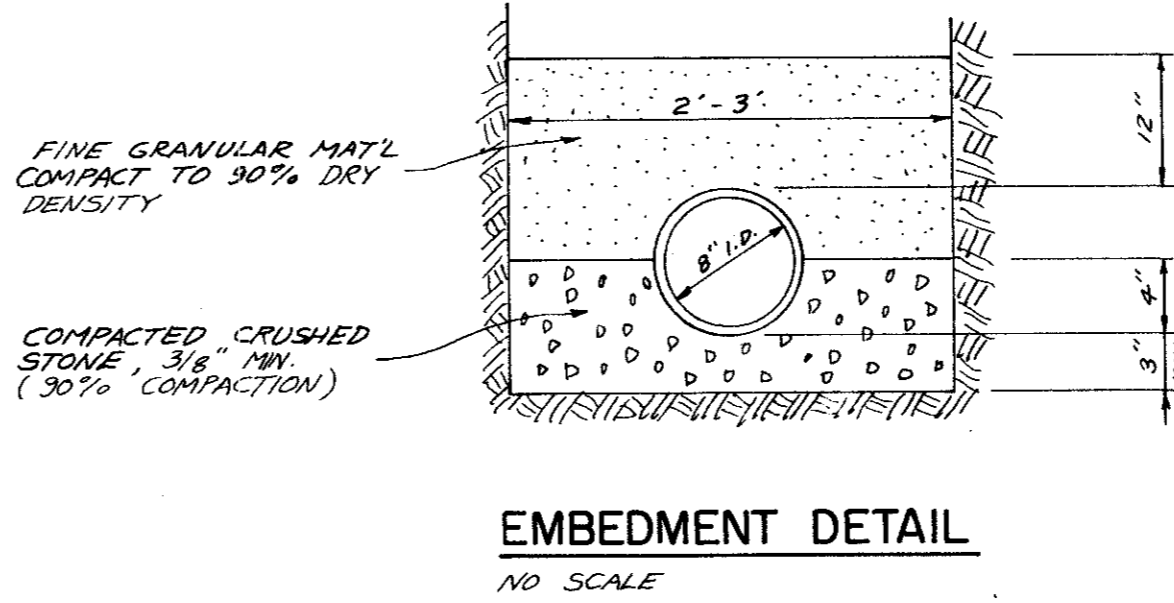
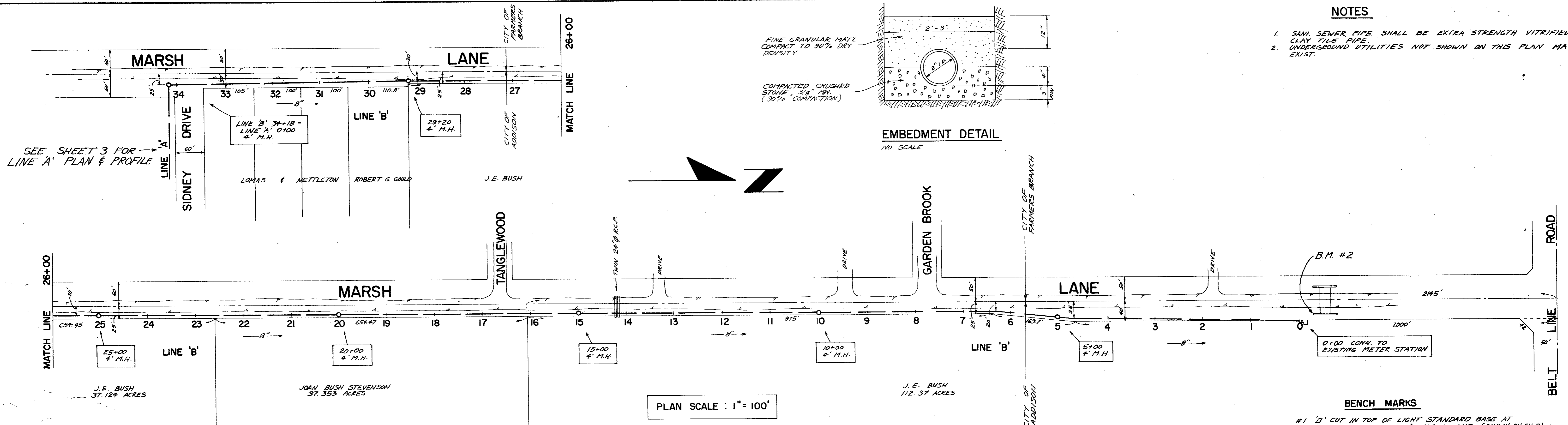
- NOTES**
1. WATER MAINS TO BE PVC CLASS 150 (SDR 18 DIMENSIONS)
 2. CONSTRUCT TRUST BLOCKS AT ALL BENDS VALVES ETC.
 3. EMBED # 12 COPPER WIRE (PLASTIC COATED) IN TRENCH WITH PLASTIC PIPE FOR LOCATING UNDERGROUND.
 4. LINE 'A' SEWER PIPE SHALL BE PVC CONFORMING TO SDR # 35.



WATER & ON-SITE UTILITIES	
MARSH LANE PROJECT	
ADDISON TEXAS	
C1975	DEC. 16, 1975
REVISIONS: 12-18-75 ADDED TWO M.H., CHANGE TO PVC, ADD NOTES 1-21-76 REVISED FINISH FLOOR ELEV. 2-9-76 MOVED M.H. FROM 1100 TO 2100, CONSIDERED LIFT STATION, REVERSED SENSITIVE LINES 2-27-76 WATER EASEMENT DIMENSION REVISED.	
DONALD E. DAVIS CONSULTING ENGINEERS 3000 McKinney Ave., Dallas, Texas 75204	

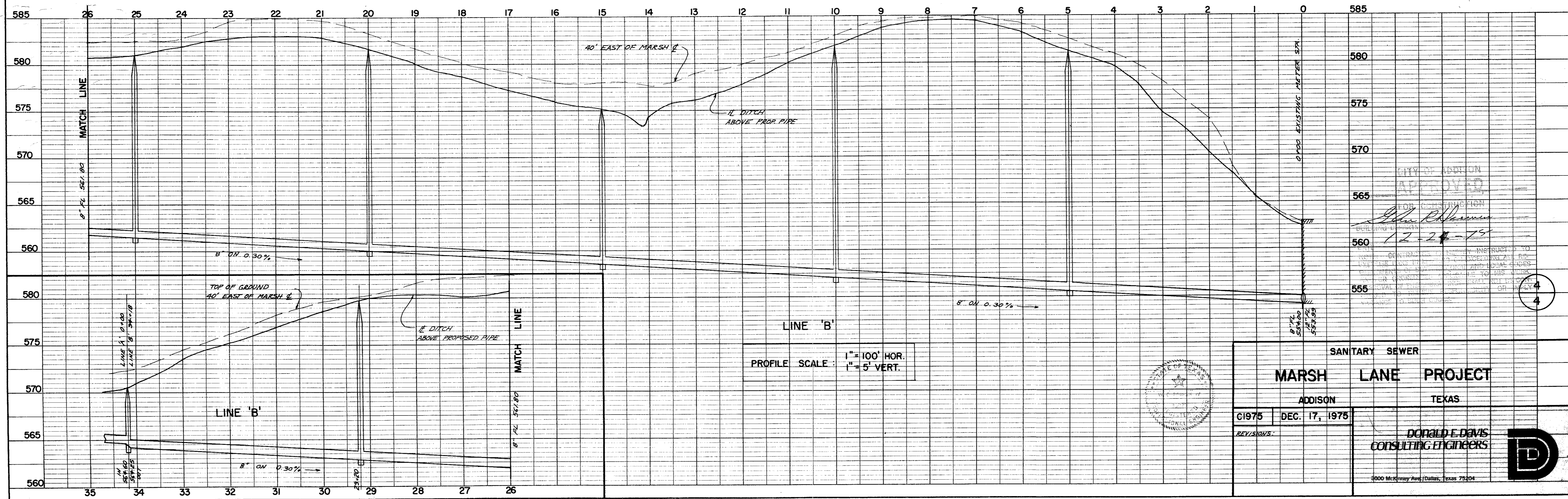
DATE	
BY	
NO.	
PLAN	
NO.	
NO.	

DATE	
BY	
NO.	
PROFILE	
NO.	
NO.	



- NOTES**
1. SANI. SEWER PIPE SHALL BE EXTRA STRENGTH VITRIFIED CLAY TILE PIPE.
 2. UNDERGROUND UTILITIES NOT SHOWN ON THIS PLAN MAY EXIST.

- BENCH MARKS**
- #1 'I' CUT IN TOP OF LIGHT STANDARD BASE AT PEBBLE BEACH DRIVE & MARSH LANE. (SHOWN ON SH. 3) ELEV. 564.33
 - #2 'I' ON TOP OF SOUTH END OF EAST HEADWALL OF BRIDGE 400' S. OF BELT LINE ROAD ON MARSH LANE. (RED PAINT SAYS 564.94) ELEV. 564.98



CITY OF ADDISON
APPROVED
FOR CONSTRUCTION
12-24-75
DONALD E. DAVIS
CONSULTING ENGINEERS

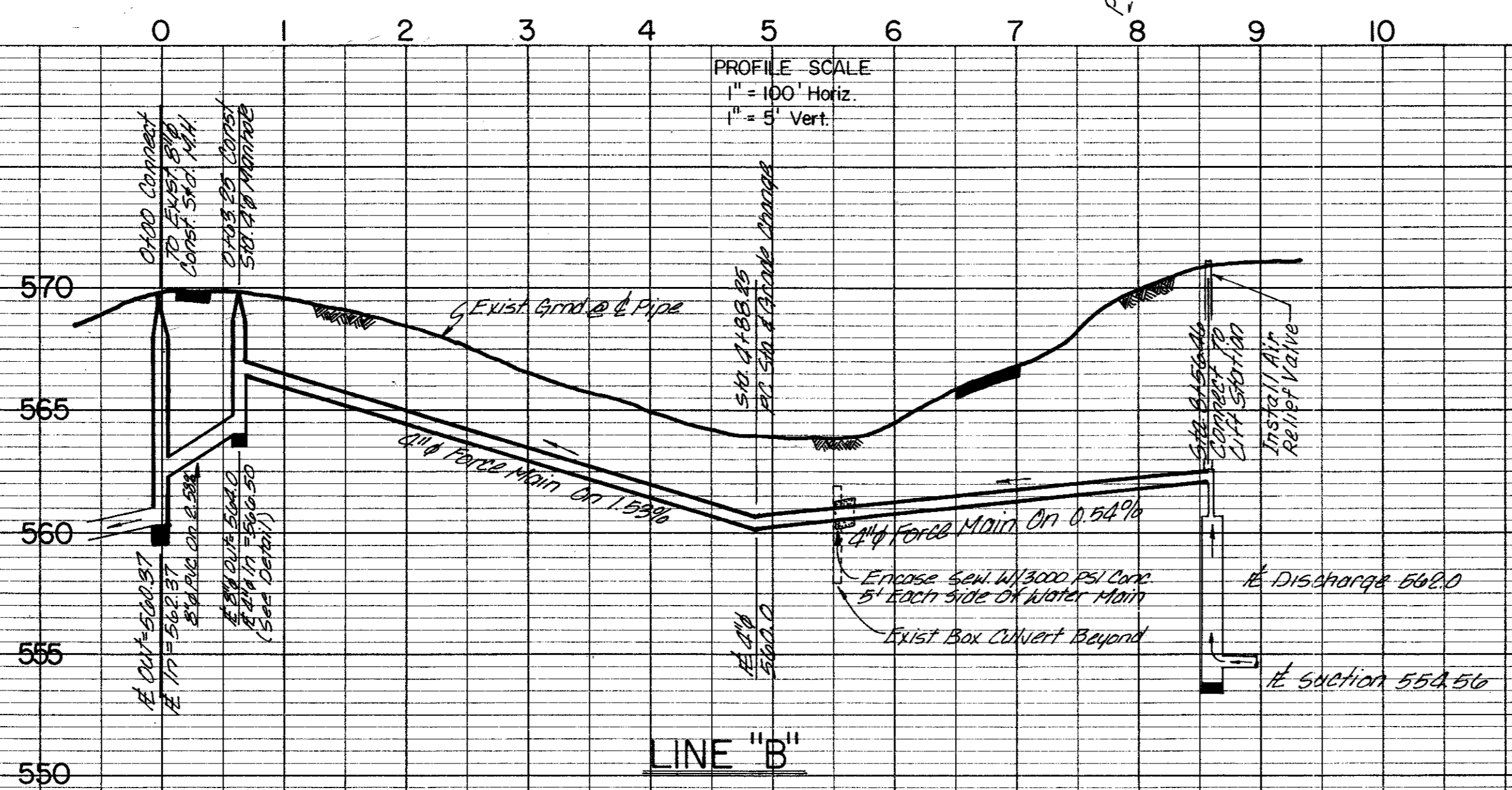
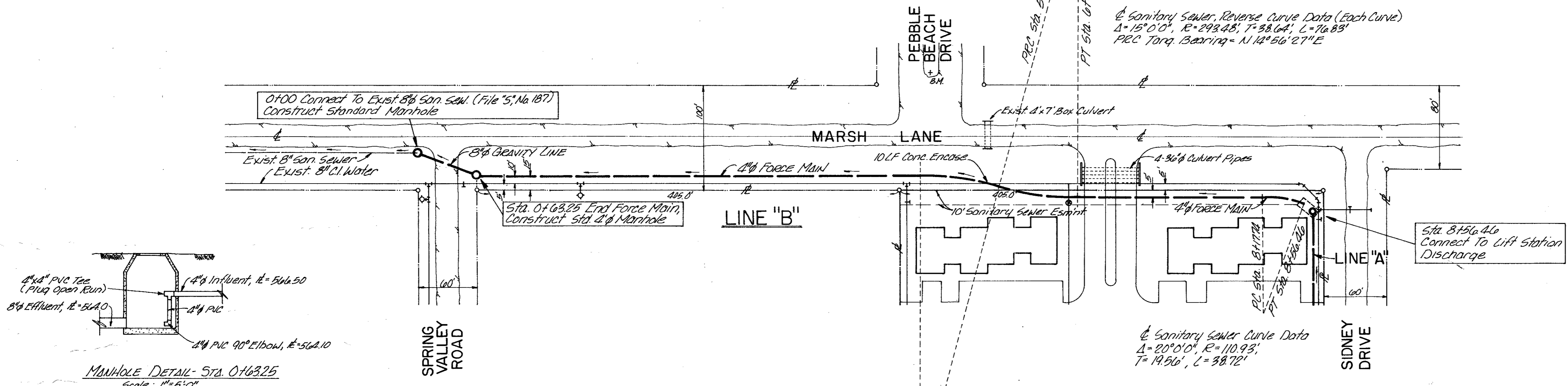
SANTARY SEWER	
MARSH LANE PROJECT	
ADDISON TEXAS	
G1975	DEC. 17, 1975
REV/SIGNS	
DONALD E. DAVIS CONSULTING ENGINEERS 3800 McKinney Ave./Dallas, Texas 75204	

DATE	
BY	
PLAN	
NO. OF REVISIONS	
NO. OF WAYS CHECKED	
NO.	

DATE	
BY	
PROFILE	
NO. OF REVISIONS	
NO. OF WAYS CHECKED	
NO.	

Scale: 1" = 60'

- General Notes:
1. Pipe For Sanitary Sewer Gravity Main shall Be PVC, SDR#35.
 2. Pipe For Force Main shall Be PVC Class 150, SDR#18.
 3. A Plastic Coated #12 Copper Wire shall Be Buried In Trench For Locating Pipe.
 4. The Contractor shall Investigate Soil Conditions Prior To Bidding.
 5. The Contractor shall Verify The Location of All Existing Utilities Prior To start of Construction.



5

4A
4
Revisions
Sheet 3 of 4
Dated Nov, 1976

OFF-SITE SANITARY SEWER
MARSH LANE PROJECT
 ADDISON TEXAS

C 1975 APRIL, 1976

REVISIONS
 Complete Revision of Sht. 1
 Rev. From 0100 to 016325 4/27/76
 Rev. Location Air Rel. V. 4-28/76

DONALD E. DAVIS
 CONSULTING ENGINEERS

3000 McKinney Ave./Dallas, Texas 75204